MORE THAN ARCHITECTS

ADDENDUM NO. 1

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Atlas Ranch Elementary

CLIENT NAME: Jarrell ISD

LOCATION: Jarrell, Texas

PROJECT NUMBER: 1949-04-01

PROPOSAL DATE: November 10th, 2:00 PM

ADDENDUM DATE: November 3, 2026



For additional information regarding this project, contact American Constructors at
512-328-2026 estimating@americanconstructors.com

THIS ADDENDUM INCLUDES:

Project Manual	121 Pages
Civil Items	22 Pages
Landscape Items	12 Pages
Structural Items	07 Pages
Food Service Items	01 Page
Architectural Items	22 Pages
Plumbing Items	06 Pages
Mechanical Items	04 Pages
Electrical Items	04 Pages
Pre Bid RFI Log & Sub. Req.	19 Pages

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM

Huckabee

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



CIVL ITEMS FOR ADDENDUM NO. 1

NOTICE TO PROPOSERS:

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

PROJECT MANUAL:

AD No 1, CIVIL Item 1: **To the Project Manual, Section 31 0516 – Aggregates for Earthwork**
1) Revised section.

AD No 1, CIVIL Item 2: **To the Project Manual, Section 31 2300 – Excavation and Fill**
2) Revised section.

AD No 1, CIVIL Item 3: **To the Project Manual, Section 31 2316 – Trenching and Backfill**
3) Revised section.

DRAWINGS:

AD No 1, CIVIL Item 4: **To the Drawings, Sheet C0.01 "COVER SHEET"**
1) Updates to the sheet index to reflect the additional sheets added.

AD No 1, CIVIL Item 5: **To the Drawings, Sheet C0.02 "GENERAL NOTES"**
1) Updates to the Construction Sequence Notes

AD No 1, CIVIL Item 6: **To the Drawings, Sheet C1.01 "EROSION AND SEDIMENTATION CONTROL PLAN"**
1) Updates to southwestern driveway, updates to southeastern storm sewer.

AD No 1, CIVIL Item 7: **To the Drawings, Sheet CS.01 "SITE PLAN"**
1) Updates to southwestern driveway, updates to southeastern storm sewer.

AD No 1, CIVIL Item 8: **To the Drawings, Sheet CS.02 "PAVING PLAN"**
1) Updates to southwestern driveway.

AD No 1, CIVIL Item 9: **To the Drawings, Sheet CS.03 "STRIPING AND SIGNAGE PLAN"**
1) Updates to southwestern driveway.

AD No 1, CIVIL Item 10: **To the Drawings, Sheet CS.04 "VEHICLE ROUTING AND QUEUING PLAN"**
1) Updates to southwestern driveway and associated vehicle queuing.

AD No 1, CIVIL Item 11: **To the Drawings, Sheet CS.05 "FIRE PROTECTION PLAN"**
1) Updates to southwestern driveway.

AD No 1, CIVIL Item 12: **To the Drawings, Sheet CG.01 "GRADING PLAN"**
1) Updates to southwestern driveway.

AD No 1, CIVIL Item 13: **To the Drawings, Sheet CS.06 "EXISTING DRAINAGE AREA MAP"**

1) Added sheet.

AD No 1, CIVIL Item 14: **To the Drawings, Sheet CS.07 "INLET BASIN DRAINAGE AREA MAP"**

1) Revised based on changes to storm sewer

AD No 1, CIVIL Item 15: **To the Drawings, Sheet CS.08 "INLET BASIN DRAINAGE AREA CALCULATIONS"**

1) Revised based on changes to storm sewer.

AD No 1, CIVIL Item 16: **To the Drawings, Sheet CU.01 "STORM LINE A1 4+50 – 8+50 & LAT A1.5-A1.7"**

1) Added Sheet

AD No 1, CIVIL Item 17: **To the Drawings, Sheet CU.02 "STORM LINE A1 8+50 – END & LAT A1.2, A1.3"**

1) Added Sheet

AD No 1, CIVIL Item 18: **To the Drawings, Sheet CU.03 "STORM LINE B1 1+00 – 4+00 & LAT B1.5, B1.6"**

1) Added Sheet

AD No 1, CIVIL Item 19: **To the Drawings, Sheet CU.04 "STORM LINE B1 4+00 – 7+00 & LAT B1.3, B1.4, B1.8-B2.0"**

1) Added Sheet

AD No 1, CIVIL Item 20: **To the Drawings, Sheet CU.05 "STORM LINE B1 7+00 – END & LAT B1.1, B1.2"**

1) Added Sheet

AD No 1, CIVIL Item 21: **To the Drawings, Sheet CU.06 "WASTEWATER LINE C1 1+100 – END C1.1, C1.2"**

1) Added Sheet

AD No 1, CIVIL Item 22: **To the Drawings, Sheet CU.15 "WASTEWATER LINE B, B1 AND B2 (1+00 TO END)"**

1) Plan background update.

AD No 1, CIVIL Item 23: **To the Drawings, Sheet CU.18 "FIRELINE E AND D (1+00 TO END)"**

1) Revised fire hydrant placement and profile.

AD No 1, CIVIL Item 24: **To the Drawings, Sheet CU.26 "WATER DETAILS (SHEET 2 OF 3)"**

1) Revised detail sheet to remove redundant fire hydrant detail.

AD No 1, CIVIL Item 25: **To the Drawings, Sheet CU.27 "WATER DETAILS (SHEET 3 OF 3)"**

1) Revised detail sheet to remove redundant fire hydrant detail

END OF CIVIL ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



LANDSCAPE ITEMS FOR ADDENDUM NO. 1

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GENERAL:

PROJECT MANUAL:

AD No 1, LANDS Item 1: **To the Project Manual, Section 321400 – Unit Paving**
1) Labyrinth Paver kit information and product details

AD No 1, LANDS Item 2: **To the Project Manual, Section 129300 – Site Furnishings**
2) Called out all furnishings to be OFOI

AD No 1, LANDS Item 3: **To the Project Manual, Section 116817 – Engineered Wood Fiber**
3) Updated last paragraph to say Jarrell ISD

DRAWINGS:

AD No 1, LANDS Item 4: **To the Drawings, Sheet L1.00**
1) Updated Limit of Construction Boundary

AD No 1, LANDS Item 5: **To the Drawings, Sheet L1.01**
2) P10 (Hardwood Mulch) on Construction Key has been removed
3) All Site Furnishing Key detail notes have been updated to include OFOI

AD No 1, LANDS Item 6: **To the Drawings, Sheet L1.02**
4) P10 (Hardwood Mulch) on Construction Key has been removed
5) All Site Furnishing Key detail notes have been updated to include OFOI
6) Sod updated to extend all the way to the Limit of Construction

AD No 1, LANDS Item 7: **To the Drawings, Sheet L1.03**
7) P10 (Hardwood Mulch) on Construction Key has been removed
8) All Site Furnishing Key detail notes have been updated to include OFOI

AD No 1, LANDS Item 8: **To the Drawings, Sheet L1.04**
9) P10 (Hardwood Mulch) on Construction Key has been removed
10) All Site Furnishing Key detail notes have been updated to include OFOI
11) Updated Limit of Construction Boundary

AD No 1, LANDS Item 9: **To the Drawings, Sheet L1.05**

12) P10 (Hardwood Mulch) on Construction Key has been removed
13) All Site Furnishing Key detail notes have been updated to include OFOI

AD No 1, LANDS Item 10: **To the Drawings, Sheet L1.13**

14) Detail No. 1 has been updated to include notes
15) Detail No. 3 has changed orientation and has been updated to include notes

AD No 1, LANDS Item 11: **To the Drawings, Sheet L1.16**

16) Detail No. 1 has been updated to include cantilever disc shade structure detail

AD No 1, LANDS Item 12: **To the Drawings, Sheet L2.02**

17) Sod updated to extend all the way to the Limit of Construction

AD No 1, LANDS Item 13: **To the Drawings, Sheet L2.04**

18) Updated Limit of Construction Boundary

AD No 1, LANDS Item 14: **To the Drawings, Sheet L2.05**

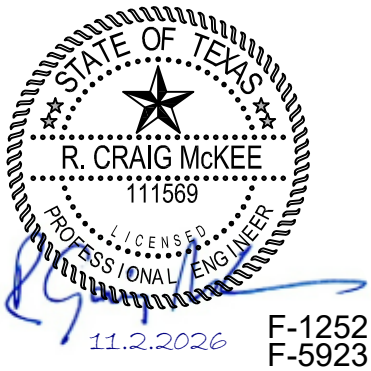
19) Artificial turf drainage and berm height information has been removed from the sheet.

AD No 1, LANDS Item 15: **To the Drawings, Sheet L3.04**

20) Updated Limit of Construction Boundary

END OF LANDSCAPE ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: JARRELL ISD
Jarrell, Texas
Project Number: 1949-04-01



F-1252
F-5923

STRUCTURAL ITEMS FOR ADDENDUM NO. 1

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DRAWINGS:

AD No 1, Struct Item 1: To the Drawings, Sheet S0.00, "GENERAL NOTES,"
Replace sheet S0.00 in its entirety with sheet S.00 attached as part of this Addendum. Three notes have been updated for additional information.

AD No 1, Struct Item 2: To the Drawings, Sheet S2.01, "FOUNDATION PLAN – AREA 1,"
Replace sheet S2.01 in its entirety with sheet S2.01 attached as part of this Addendum. The front entry stoop has been recessed for pavers. As a result, new sections have been called out at multiple stoops for clarity, the elevation of one grade beam has been modified, and the length of the front entry stoop has been updated. The material of a bench has been updated to CFMF in lieu of concrete over polystyrene. All topping slab tags have been updated.

AD No 1, Struct Item 3: To the Drawings, Sheet S2.03, "FOUNDATION PLAN – AREA 3,"
Replace sheet S2.03 in its entirety with sheet S2.03 attached as part of this Addendum. The dimensions of a stoop have been updated.

AD No 1, Struct Item 4: To the Drawings, Sheet S2.16, "CANOPY AND SITE WALL PLANS,"
Replace sheet S2.16 in its entirety with sheet S2.16 attached as part of this Addendum. The names of four plans has been updated for clarity.

AD No 1, Struct Item 5: To the Drawings, Sheet S5.01, "TYPICAL FOUNDATION DETAILS,"
Replace sheet S5.05 in its entirety with sheet S5.05 attached as part of this Addendum. Two dimensions apart of detail '1/S5.05' have been updated.

AD No 1, Struct Item 6: To the Drawings, Sheet S5.05, "FOUNDATION SECTIONS,"
Replace sheet S5.05 in its entirety with sheet S5.05 attached as part of this Addendum. New detail '12/S5.05' has been added to the project.

END OF STRUCTURAL ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



ARCHITECTURE ITEMS FOR ADDENDUM NO. 1

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

GENERAL:

AD No 1, ARCH Item 1: **Pre-Bid RFI/Substitution Request Log is attached for reference.**

PROJECT MANUAL:

AD No 1, ARCH Item 2: **To the Project Manual, Section 00 33132 – Geotechnical Data**

1) PART1 – GENERAL, 1.02 INVESTIGATION A. revised to include "*and Addendum Letter #1 (AE26-0501-Addendum Letter #1), dated October 22, 2026.*"
2) Added Addendum Letter #1 - *AE26-0501-Addendum Letter #1 dated October 22, 2026.*

AD No 1, ARCH Item 3: **To the Project Manual, Section 05 5516 – Metal Stair Nosing**

1) PART 1 – GENERAL, SECTION 1.01 SECTION INCLUDES revised to A. CAST IN PLACE INTERIOR STAIR NOSINGS and B. EXTERIOR STAIR NOSINGS.
2) Section 2.02 MATERIALS B and C added.

AD No 1, ARCH Item 4: **To the Project Manual, Section 07 5419 Polyvinyl-Chloride (PVC) Roofing**

1) "Elevate, 80 mil Elevate Max PVC (field), 60 mil Elevate Max PVC (Flashings)" has been added to Section 2.02 *Roof Membrane*. Revisions to this section limited to this narrative. Revisions to this section to be included in the conformed set.

AD No 1, ARCH Item 5: **To the Project Manual, Section 07 4213 Metal Wall Panel**

1) "Elevate:www.elevatecommercialbp.com" added as No. 8 to *Part 2 Products, Item B under Section 2.01 Manufactures.* Revisions to this section limited to this narrative. Revisions to this section to be included in the conformed set.

AD No 1, ARCH Item 6: **To the Project Manual, Section 07 9513 Expansion Joint Cover Assemblies**

1) "Erie Metal Specialties: www.eriemetal.com" added as No. 5 to *Part 2 Products,* Item *A. Expansion Joint Cover Assemblies,* under Section *2.01 Manufactures.* Revisions to this section limited to this narrative. Revisions to this section to be included in the conformed set.

AD No 1, ARCH Item 7: **To the Project Manual, Section 11 3013 Residential Appliances**

1) 2.02 KITCHEN APPLIANCES – *B Cooking Exhaust: Range Hood* revised.

AD No 1, ARCH Item 8: **To the Project Manual, Section 08 7100 Finish Hardware**

1) PART 3 – EXECUTION 3.02 *Hardware Sets*, revised to include changes in hardware for Door Nos. 218A and 819.1 as shown in the door schedule. Revisions to this section limited to this narrative. Revisions to this section to be included in the conformed set.

DRAWINGS:

AD No 1, ARCH Item 9: **To the Drawings, Sheet G2.02 "CODE ANALYSIS PLAN – LEVEL 2"**

1) IDF Room No. 819.1 revised to include a 1-HR fire barrier assembly.
2) 1 HR Fire Barrier designation was removed from partitions plan north of Room No. 723-Flex Storage. The floor assembly extends to the backside of wall as this area is not classified as a shaft.

AD No 1, ARCH Item 10: **To the Drawings, Sheet No. G2.03 "FIRE PROOOFING PLAN"**

1) Replaced in its entirety. Scale of fireproofing hatch revised for clarity.

AD No 1, ARCH Item 11: **To the Drawings, Sheet No. G3.02 "INTERIOR PARTITION TYPES"**

1) Interior CFMF Partition type "J" has been added.
2) Notation "NS04" added to masonry veneer description at Partition type N for clarity.

AD No 1, ARCH Item 12: **To the Drawings, Sheet G5.01 "SCHEDULE OF MATERIALS AND COLORS"**

1) Section 09 3000 – TILING, BTC01 "NOT USED" note added.
2) Section 07 47113 – METAL ROFO PANEL, Manufacturer and model series revised to include Pac-Clad Peterson and Tite-Loc Plus.

AD No 1, ARCH Item 13: **To the Drawings, Sheet G5.02 "SCHEDULE OF MATERIALS AND COLORS"**

1) Section 10 2239 – FOLDABLE PANEL PARTITIONS, OP key designator revised to FP in coordination with tag of floor plans.
2) Section 10 2239 – FOLDABLE PANEL PARTITIONS, finish note added.

AD No 1, ARCH Item 14: **To the Drawings, Sheet AS2.02 "CANOPY DETAILS"**

1) Noted Detail Tags 6 & 7/AS2.02 on Detail 5, "DROP OFF CANOPY SECTION"
2) Details added 6 & 7 "FASCIA DETAIL"

AD No 1, ARCH Item 15: **To the Drawings, Sheet A1.04 "FLOOR PLAN – AREA 4 – LEVEL 1"**

1) Wall type at Room No. 416 Grade Storage revised to Type "K" and "H".

AD No 1, ARCH Item 16: **To the Drawings, Sheet A1.08 "FLOOR PLAN – AREA 8 – LEVEL 2"**

1) Wall tag at IDF Room No. 819.1 revised to 1-HR fire barrier assembly.

AD No 1, ARCH Item 17: **To the Drawings, Sheet A1.34 "RAILING TYPES AND DETALS"**

1) Clouded details revised for materials and finish clarification.

AD No 1, ARCH Item 18: **To the Drawings, Sheet A2.08 "REFLECTED CEILING PLAN – AREA 8 – LEVEL 2"**

1) Ceiling type in IDF Room No. 818.1 revised from ESF to GYP1.

AD No 1, ARCH Item 19: **To the Drawings, Sheet A3.01 "DOOR SCHEUDLES AND CONFIGURATIONS"**

1) Door hardware and fire rating revised in the door schedule for Door No. 218A
2) Door hardware and fire rating revised in the door schedule for Door No. 819.1

AD No 1, ARCH Item 20: **To the Drawings, Sheet A4.01 "FINISH PLAN – AREA 1 – LEVEL 1"**

1) Gym 146, WP01 added to Wall Pads note.

AD No 1, ARCH Item 21: **To the Drawings, Sheet A4.03 "FINISH PLAN – AREA 3 – LEVEL 1"**

1) Stair C 303, stair finishes note added.

AD No 1, ARCH Item 22: **To the Drawings, Sheet A4.04 "FINISH PLAN – AREA 4 – LEVEL 1"**

1) Stair B 401, stair finishes note added.
2) Stair A 417, stair finishes note added.

AD No 1, ARCH Item 23: **To the Drawings, Sheet A4.05 "FINISH PLAN – AREA 5 – LEVEL 1"**

1) Laundry 524, updated note referencing appliances.

AD No 1, ARCH Item 24: **To the Drawings, Sheet A4.08 "FINISH PLAN – AREA 8 – LEVEL 2"**

1) Stair C 801, stair finishes note added.

AD No 1, ARCH Item 25: **To the Drawings, Sheet A4.09 "FINISH PLAN – AREA 9 – LEVEL 2"**

1) Stair B 901, stair finishes note added.
2) Stair A 908, stair finishes note added.

AD No 1, ARCH Item 26: **To the Drawings, Sheet 4.12 "INTERIOR ELEVATIONS"**

1) Detail Nos. 1,2,3,6 were revised to include WP01 wall pad note.

AD No 1, ARCH Item 27: **To the Drawings, Sheet A4.17 "INTERIOR DETAILS"**

1) Added Detail 12, "ISOMETRIC VIEW – COSMETIC SEALANT AT B.O. INTERIOR DOOR FRAME"

AD No 1, ARCH Item 28: **To The Drawings, Sheet A6.12 "WALL SECTION DETAILS"**

1) Detail Nos. 1 & 2 were revised to include metal strapping at face of stud at termination bar elevation.

AD No 1, ARCH Item 29: **To the Drawings, Sheet A6.15 "WALL SECTION DETAILS"**

1) Detail Nos. 2 and 4 revised to show steel risers with material finish over concrete treads and cast-in two component stair nosing.

AD No 1, ARCH Item 30: **To the Drawings, Sheet A7.01 "ROOF PLAN"**

1) Scope clarification note added for the roof mounted antennas.
2) Detail Annotation added to the Outdoor Dining Canopy
3) Detail Annotation added to the Drop Off Canopies

END OF ARCHITECTURE ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01

FOOD SERVICE EQUIPMENT ITEMS FOR ADDENDUM NO. 1

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PROJECT MANUAL:

AD No 1, FS Item 1: **To the Project Manual, Section 11 4000 FOOD SERVICE EQUIPMENT, Part 4 – EQUIPMENT SCHEDULE**

1) Replace specification for Item 103 – REFRIGERATION SYSTEM – STANDARD with the following:

ITEM NO. 103 REFRIGERATION SYSTEM-STANDARD

QUANTITY 1

Manufacturer:	RDT
Model:	ZS1-2 EcoSmart
Size and Shape:	Refer to drawings
Alternate:	---

1. R448A refrigerant.
2. Air cooled system.
3. Scroll Compressors.
4. Cooler temperature to be +35 degrees.
5. Freezer temperature to be -10 degrees.
6. EcoSmart system on demand defrost.
7. Refrigeration system to accommodate 110ºF ambient exterior temperature. Coils to be oversized by 20%.
8. KE2 Evap Controllers located per Owner requirements.
9. Provide magnetic door activation switches at each door to turn off evaporator coils when the door is opened. Interconnect door activation switches through Panic Alarm to turn off evaporator coils also when Panic Switch is engaged.
10. Temperature Sensor probe to be located in return air flow at the side and rear of evaporator coil but is not to rest directly on evaporator coil
11. S/S covered housing.
12. A dedicated electrical connection to be provided for heated condensate drain line. Refer to electrical plan for location.
13. All exterior piping to be aluminum wrapped.
14. System to accommodate Item No. 102 Cold Storage Assembly.

15. System to be located on roof. Coordinate location with architectural plans. Coordinate roof mounting requirements with appropriate trades.
16. Secure all feet to roof with corrosion resistant bolts. Do not provide legs on roof mount units.
17. Mount condensing unit on common exterior rack. Refer to Architectural and Engineering drawings for exact location of remote unit. Coordinate routing of refrigeration lines and conduit with appropriate trades. Heat tape and insulate all drain lines. General Contractor to seal all building penetrations at refrigeration lines.
18. Provide two (2) year parts and labor warranty for all parts and components (including third-party components that may be utilized).
19. Provide extended 4 year compressor warranty.

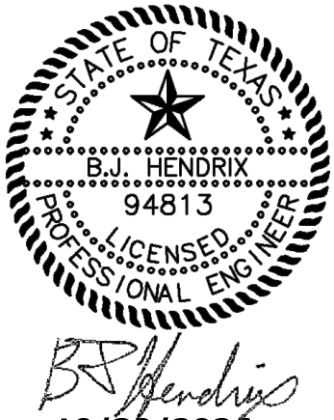
DRAWINGS:

AD No 1, FS Item 2: **To the Drawings, Sheet QF1.7**

1) Replace sheet QF1.7 – FS CONDENSING UNITS with included, revised sheet.

END OF FOOD SERVICE EQUIPMENT ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



PLUMBING ITEMS FOR ADDENDUM NO. 1

10/30/2026

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DRAWINGS:

AD No 1, PLBG Item 1: To the Drawings, Sheet P2.01 "FLOOR PLAN – AREA 1 – LEVEL 1 – PLUMBING – WASTE"

1) Revised floor sink "FS" waste routing in CLINIC 104 to miss structure below.
2) Shifted floor drain "FD8" in MDF 131 to miss structure below.
3) Revised sink waste routing in OFFICE/WORK 137 to miss structure below.

AD No 1, PLBG Item 2: To the Drawings, Sheet P2.10 "FLOOR PLAN – AREA 10 – LEVEL 2 – PLUMBING – WASTE"

1) Revised vent routing in 4TH 1002 to miss structure below.

AD No 1, PLBG Item 3: To the Drawings, Sheet P2.20 "ENLARGED KITCHEN PLAN – PLUMBING – WASTE"

1) Shifted sanitary sewer in KITCHEN 205 to miss structural pier below.

AD No 1, PLBG Item 4: To the Drawings, Sheet P3.02 "FLOOR PLAN – AREA 2 – LEVEL 1 – PLUMBING – SUPPLY"

1) Shifted cold water in DINING 200 to miss structural tube.

AD No 1, PLBG Item 5: To the Drawings, Sheet P3.03 "FLOOR PLAN – AREA 3 – LEVEL 1 – PLUMBING – WASTE"

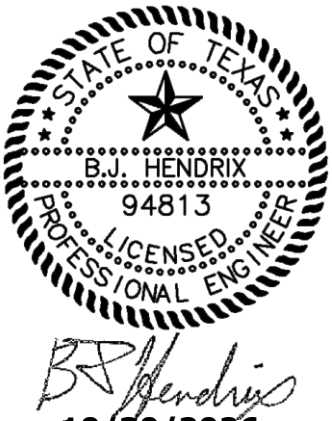
1) Provided offset in cold water piping to hose bibb in ART 324 to miss structure.

AD No 1, PLBG Item 6: To the Drawings, Sheet P3.07 "FLOOR PLAN – AREA 7 – LEVEL 2 – PLUMBING – SUPPLY"

1) Shifted cold water in DINING 200 to miss structural tube.

END OF PLUMBING ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



10/30/2026

MECHANICAL ITEMS FOR ADDENDUM NO. 1

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

DRAWINGS:

AD No 1, MECH Item 1: To the Drawings, Sheet M2.05 – FLOOR PLAN – AREA 5 – LEVEL 1 - MECHANICAL

1) Adjusted exhaust discharge location to Toilet 526's exhaust fan, and Laundry 524 dryer exhaust due to structural members in original wall.

AD No 1, MECH Item 2: To the Drawings, Sheet M2.07 – FLOOR PLAN – AREA 7 – LEVEL 2 - MECHANICAL

2) Adjusted RTU-1.09 supply and return duct drops within chase north of Elec 720, due to structural members below.
3) Adjusted RTU-1.07 supply air trunk location so it does not conflict with enlarged elevator.

AD No 1, MECH Item 3: To the Drawings, Sheet M2.09 – FLOOR PLAN – AREA 9 – LEVEL 2 - MECHANICAL

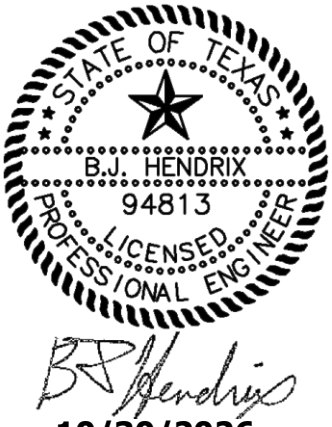
4) Adjusted EF-4.1 location to avoid structural member below.
5) Adjusted EF-4.1 drop location within chase in Room 902 to avoid structural members.

AD No 1, MECH Item 4: To the Drawings, Sheet M2.10 – FLOOR PLAN – AREA 10 – LEVEL 2 - MECHANICAL

6) Shifted RTU-10.01 for supply and return duct drops from the unit to avoid structural joists below.

END OF MECHANICAL ADDENDUM

Project Name: Atlas Ranch Elementary School
Client: Jarrell ISD
Jarrell, Texas
Project Number: 1949-04-01



ELECTRICAL ITEMS FOR ADDENDUM NO. 1

10/30/2026

NOTICE TO PROPOSERS:

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

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

DRAWINGS:

AD No 1, ELEC Item 1: **To the Drawings, Sheet E2.01 - FLOOR PLAN - AREA 1 - LEVEL 1 - LIGHTING**

1) Adjusted indicated H2 location to clear ductwork and L2X locations to clear structure.

AD No 1, ELEC Item 2: **To the Drawings, Sheet E2.03 - FLOOR PLAN - AREA 2 - LEVEL 1 - LIGHTING**

2) Adjusted indicated L2X location to clear structure.

AD No 1, ELEC Item 3: **To the Drawings, Sheet E2.06 - FLOOR PLAN - AREA 6 - LEVEL 1 - LIGHTING**

3) Adjusted indicated L2X locations to clear structure.

AD No 1, ELEC Item 4: **To the Drawings, Sheet E2.08 - FLOOR PLAN - AREA 8 - LEVEL 2 - LIGHTING**

4) Adjusted indicated M4 location to clear structure.

END OF ELECTRICAL ADDENDUM

PRE-BID RFI/SUB. REQUEST LOG_JARREL ISD ATLAS RANCH ES_1949-04-01

Date Received	From:	Received Via:	Issue	Responsibility	Completed?	Picked up via:	Spec. / Sheets Affected	Date issued:	Official Response/Correspondence
10/14/26	American Constructors - Texas Lone Star Reps	Email	Substitution Request: 01.PVC Roofing - Elevate MAX PVC	Huckabee / EE	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	Specification 07 5419 Polyvinyl-Chloride (PVC) Roofing	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 5419 Polyvinyl-Chloride (PVC) Roofing
10/14/26	American Constructors - Texas Lone Star Reps	Email	Substitution Request: 02. Metal Panel - Elevate UnaClad Delta CFP-12F	Huckabee / EE	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	74213	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 4213 Metal Wall Panel
10/14/26	American Constructors - Texas Lone Star Reps	Email	Substitution Request: 03. Metal Soffit- Elevate UnaClad UC-500 Flush Soffit	Huckabee / EE	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	74213	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 4213 Metal Wall Panel
10/14/26	American Constructors - Texas Lone Star Reps	Email	Substitution Request: 04. Laminators ACM Panels	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	74213.23	10/20/26 & 11/3/26	Not Approved. Reference Substitution Request Form.
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 05. ALCP Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513-202A.3	10/20/26 & 11/3/26	Approved as noted. Reference Subsitution Request Form. MFR to be added to Specificatoin Section 07 9513 *Expansion Joint Cover Assmeblies*
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 06. ELCW Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513 - 2.02E.1,2	10/20/26 & 11/3/26	Approved as noted. Reference Subsitution Request Form. MFR to be added to Specificatoin Section 07 9513 *Expansion Joint Cover Assmeblies*
10/14/26	American Constructors - Erie Metals	Email	Substitution Request: 07. CSS Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513- 2.03A	10/20/26 & 11/3/26	Not Approved. Reference Substitution Request Form.
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 08. ENWJ Series - Floor EJ Cover	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513 - 2.02C.1, 2	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 9513 Expansion Joint Cover Assemblies
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 09. CSS (2FR) Series	Huckabee / EE	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513- 2.02F	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 9513 Expansion Joint Cover Assemblies
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 10. ELCE Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	079513 - 2.02D.1, 2	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 9513 Expansion Joint Cover Assemblies
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 11. ELCF Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	79513	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 9513 Expansion Joint Cover Assemblies
10/14/26	American Constructors - Erie Metals Specialties	Email	Substitution Request: 12. ELCFC Series	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	79513 202B.1,2	10/20/26 & 11/3/26	Approved as noted. Reference Substitution Request Form. MFR to be added to Specification Section 07 9513 Expansion Joint Cover Assemblies
10/16/26	American Constructors	Email	Show limits of sidewalk to include	Gray Engineering	Yes	Email / Addendum No. 1	None	10/19/26 & 11/3/26	All sidewalk to be constructed is located within the Limits of Construction as called on the plans.
10/16/26	American Constructors	Email	Doesn't match callout on Finish Plans, s/b residential apppliances, Ref. A4.05	Huckabee	Yes	Addendum 1	Sheet No. A4.05 Finish Plan - Area 5 - Level 1 & Specification 11 3013 Residential Appliances	11/3/2026	Clarifying notes were added to Sheet No. A4.05 Finish Plan - Area 5 - Level 1.
10/16/26	American Constructors	Email	Is Site Furnishing Key found on L1.01 OFOI?	Coleman and Associates	Yes	Addendum 1	L1.01 to L1.05 & 129300-Site Furnishings	11/3/2026	All Furniture has been updated to be OFOI on all sheets and specs.
10/19/26	American Constructors - Hunter Kenepshield of Texas Inc.	Email	Substitution Request: 13. Superior Custom Cantilever Disc Shade	Coleman and Associates	Yes	Addendum 1	L1.15	11/3/2026	Not Approved. Reference Substiution Request Form.

10/19/26	American Constructors - Hunter Kenepshield of Texas Inc.	Email	Substitution Request: 14. Superior Site Amenities	Coleman and Associates	Yes	Addendum 1	12 9300	11/3/2026	Not Approved. Reference Substiution Request Form.
10/23/26	American Constructors - Hunter Kenepshield of Texas Inc.	Email	The Landscape drawings are calling for a Labyrinth Company Chelsea A La Chartres feature in the Courtyard. Reference 1/L1.05. The drawings refer you to the specs, but there are no specs included for this product that I can see. Is it possible to get the specs included with Addendum 1? Do you have any previous projects you can refer us to where something like this was installed? Looking at their website, we'd need to know the field and line color combinations as well	Coleman and Associates	Yes	Addendum 1	L1.05 & 321400 Unit Paving	11/3/2026	Spec has been updated to include all labyrinth information
10/27/26	American Constructors	Email	What is the extent of the Plywood on 2nd Floor	Huckabee	Yes	Addendum 1	None	11/3/2026	Detail shown is at Learning Stair Landing, not 2nd Floor. Plywood substrate required below hardwood floor finish at the Learning Stair.
10/27/26	American Constructors	Email	Provide size and details for French Drain System. None shown in Structural or Architectural.	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	None	11/3/2026	Reference 2/A6.11 , 1/P2.01 and CU.02
10/27/26	American Constructors	Email	Provide clarification on the "?" tag	Huckabee	Yes	Addendum 1	A1.01_Floor Plan - Area 1 - Level 1	11/3/2026	"?" closest to grid line BD / 38 should read as *5" DS* . Revision to the tag to be issued in forthcoming ASI
10/27/26	American Constructors	Email	Labeling is causing material type confusion - do you want steep pipe that is painted / powder coated dark bronze or Aluminum that comes in dark bronze or stainless that also comes in dark bronze? Also - other rail types like standalone handrail call for stainless steel.	Huckabee	Yes	Addendum 1	A1.34 _Railing Types and Details	11/3/2026	Rail Type R1 is a combination of painted posts and stainless steel handrails. Ref. revised Detail Nos. 1-4/A1.34 for clarification. Rail Type R2 is to be stainless steel per Detail Nos. 4-7/A1.34. Rail Type R3 is to be powdercoaded dark bronze (bases of design Viva - Circa Pickets) at all locations with the exception of the handrails, which are to be stainless steel. Ref reviewed Detail Nos. 9&10/A1.34 for clarification.
10/27/26	American Constructors	Email	Correct the shading/hatching for consistency	Huckabee - Interior	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	A2.02_REFLECTED CEILING PLAN - AREA 2 - LEVEL 1	11/3/2026	Reference elevation 1/A4.13 for ceiling type for area in question. Hatch to be added for clairty between Room Nos. 200 and 201 in forthcoming ASI.
10/27/26	American Constructors	Email	Add kickplate to all MDF, storage, custodial, gym, kitchen upe doors?	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	None	11/3/2026	Doors requiring kickplates are identified in the hardware schedule.
10/27/26	American Constructors	Email	Details 2 & 4/A6.15 Show Aluminum Treads. Typical all Stairs. Please clarify.	Huckabee - Interior	Yes	Addendum 1	A6.15_WALL SECTION DETAILS, Finish Plan Nos. A4.03, A4.04, A4.08 and A4.09	11/3/2026	Finish on egress stairs to be per Finish Plan. Details on Sheet A6.15 Wall Section Details have been revised to show LVT with painted steel risers.
10/27/26	American Constructors	Email	Finish Floor Plans Show LVT on Stair Treads. Please Clarify	Huckabee	Yes	Addendum 1	A6.15_WALL SECTION DETAILS, Finish Plan Nos. A4.03, A4.04, A4.08 and A4.09	11/3/2026	Details on Sheet A6.15 Wall Section Details have been revised to show LVT treads with painted steel risers. Clarifying notes added to floor finish plans.
10/27/26	American Constructors	Email	Detail 9 is in conflict with Structural Drawings 13/S5.04 and S2.01 show this as concrete. Please Clarify	Huckabee - Interior	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	None	11/3/2026	Please reference structure for structural material and configuration of seat detail . The finish material intent will remain as shown on 9/A8.04. .
10/27/26	American Constructors	Email	Update to be project specific? Wells, pond, concrete paving	Gray Engineering	Yes	Addendum 1	C0.02_GENERAL NOTES	11/3/2026	The general notes / construction sequence has been updated as requested.
10/27/26	American Constructors	Email	Show the outline or limits of the pond to be filled, somewhere on the civil/demo plans. Only referenced in the Geotech currently.	Gray Engineering	Yes	Addendum 1	C0.03_EXISTING SITE CONDITIONS AND DEMOLITION PLAN	11/3/2026	The limits of the pond have not been shared with us to date. The limits of subgrade improvements have been illustrated on the plans based on direction provided to us by the architect, the owner-representative group, and the district.
10/27/26	American Constructors	Email	Existing septic tank in this general area not shown on plans.	Gray Engineering	Yes	Addendum 1	C0.03_EXISTING SITE CONDITIONS AND DEMOLITION PLAN	11/3/2026	No information has been provided identifying an existing septic tank. We have included notes on the plans to clearly state that if a septic tank is located during construction that the contractor should notify the engineer.
10/27/26	American Constructors	Email	Please verify scale. 1" - 40' looks wrong	Gray Engineering	Yes	Addendum 1	CS.01_SITE PLAN	11/3/2026	Scale has been verified to be 1"=40'
10/27/26	American Constructors	Email	NS03 and NS04 do not appear to be used.	Huckabee	Yes	Addendum 1	G3.02_INTERIOR PARTITION TYPES, G5.01_SCHEDULE OF MATERIALS AND COLORS,	11/3/2026	NS03 is located below teaching surfaces in Outdoor Learning Room No. 600 and Library Patio No. 602. Reference 1/A5.04 and 4/A5.04 for extents. NS04 is located at partition Type "N" . Note added on Sheet G3.02 Interior Partition Types Partition Type N for clarity.
10/27/26	American Constructors	Email	Need more information on 10 1100 - Visual Display Units	Huckabee - Interior	Yes	Addendum 1	G5.01_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	Reference sheet G5.01 in the S&S set. Information for section 10 1100 is filled out.

10/27/26	American Constructors	Email	Confirm 08 1116 Spec is needed	Huckabee	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	G5.01_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	Specification Section 08 1116 is not needed. To remove from the schedule of materials in forthcoming ASI.
10/27/26	American Constructors	Email	Key designator OP not used on plans	Huckabee	Yes	Addendum 1	G5.01_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	Folding partitions key designator revised to FP in the Schedule of Materials and Colors in coordination with the tag used in the floor plan.
10/27/26	American Constructors	Email	WP01 is not used on plans	Huckabee - Interior	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	G5.02_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	WP01 annotation added to sheet A4.01 in the gymnasium and elevations: 1/A4.12, 2/A4.12, 3/4.12, 6/A4.12.
10/27/26	American Constructors	Email	Structural styrofoam is not included in the Specifications.	Coleman and Associates	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	None	11/3/2026	Structual styrofoam to be provided my turf manufacturer.
10/27/26	American Constructors	Email	Confirm use of SBR Rubber. 60 oz. is a dense truf, sand might be more typical.	Coleman and Associates	Yes	Addendum 1	L1.11_HARDSCAPE DETAILS	11/3/2026	Per the manufacturer, SBR is to be used under turf.
10/27/26	American Constructors	Email	Missing Detail	Coleman and Associates	Yes	Addendum 1	L1.16_HARDSCAPE DETAILS	11/3/2026	Sheet L1.16 has been updated to include shade structure detail.
10/27/26	American Constructors	Email	Architectural Detail 9/A804 shows this as CFMF and Millwork. Please clarify.	IEG	Yes	Addendum 1	S2.01_FOUNDATION PLAN - AREA 1	11/3/2026	Bench has been updated to CFMF
10/27/26	American Constructors	Email	Front entry canopies show to be structural, but labeled "Pre-Manuf"	IEG	Yes	Addendum 1	S2.16_CANOPY AND SITE WALL PLANS	11/3/2026	Plan view titles have been updated to remove "pre-manuf" for clarity.
10/27/26	American Constructors	Email	Beam depths are 2' - 0" but typical detail calls for 2'-6" minimum. Please clarify.	IEG	Yes	Addendum 1	S5.01_TYPICAL FOUNDATION DETAILS	11/3/2026	Minimum depth is 2'-0". Detail has bee updated
10/27/26	American Constructors	Email	Pilaster depths are 2'-0" but typical details calls for 2'-6" minimum. Please clarify.	IEG	Yes	Addendum 1	S5.01_TYPICAL FOUNDATION DETAILS	11/3/2026	Minimum depth is 2'-0". Detail has bee updated
10/27/26	American Constructors	Email	Architectural Detail 9/A804 shows this as CFMF and Millwork. Please clarify.	IEG	Yes	Addendum 1	S5.04_FOUNDATION SECTIONS	11/3/2026	Bench has been updated to CFMF
10/27/26	American Constructors	Email	Needs 2- layers of 7-mil poly under topping slab so it stays unbonded. Joint should be slightly under all.	IEG	Yes	Addendum 1	S5.06_FOUNDATION SECTIONS	11/3/2026	All topping slab callouts on S2.01 have been modified.
10/27/26	American Constructors	Email	Shade Structure is Missing	Coleman and Associates	No		Project Manual		
10/27/26	American Constructors	Email	Trifab 601T Storefront System is in the specification but not shown on the plans.	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	Specification 08 4313 Aluminum-Framed Storefronts	11/3/2026	Please disregard reference to the Trifab 601T storefront system as basis of design since it is not applicable to this project.
10/27/26	American Constructors	Email	Drawings specify tackable surface. What is preferred cork, gyboard, or steel (covered w/vinyl uses magnet tacks).	Huckabee - Interior	Yes	Email / Addendum No. 1 PreBid RFI/Sub. Request Log	Specification 10 2239 Folding Panel Partitions	11/3/2026	Cork is prefered. Finish note added to sheet G5.02, Section 10 3309 - FOLDING PANEL PARTITIONS - For tackable surface material information, in that spec section, see Part 2 Products, 2.03 Materials, C. Tackboard.
10/27/26	American Constructors	Email	Are pass doors required?	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	Specification 10 2239 Folding Panel Partitions	11/3/2026	Please disregard reference to pass through doors since they are not applicable to this project.
10/27/26	American Constructors	Email	Pocket Enclosures not shown on plans, please confirm.	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	Specification 10 2239 Folding Panel Partitions	11/3/2026	Pocket enclosures are not required.
10/27/26	American Constructors	Email	Clarify "A.I.S.D."	Coleman and Associates	No		Specification 11 6817 Engineered Wood Fiber		
10/27/26	American Constructors	Email	Are the cashier/ serving counter's exterior body panel hardwood required to be Marine Grade?	FDP	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	Specification 11 4000 Food Service Equipment	11/3/2026	Line item is for manufacturer supplying counters however, these counters are being supplied with tile ready backer board for tile application in the field by GC.
10/27/26	American Constructors	Email	BTC01 does not appear to be used.	Huckabee - Interior	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	G5.01_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	Note "Not Used" added to Section 09 3000 - Tiling, BTC01 in the *Schedule of Materials and Colors*
10/27/26	American Constructors	Email	MRP01 - Metal Roof Panel missing manufacture name and model.	Huckabee	Yes	Addendum 1	G5.01_SCHEDULE OF MATERIALS AND COLORS	11/3/2026	Sheet G5.01 was revised to include Pac-Clad Peterson as the manufacture and Tite-Loc Plus at the Model/Series.
10/30/26	American Constructors	Email	A2.01 RCP Area 1 shows MS01 but A2.05 Area 5 calls out MS03. Please clarify.	Huckabee	Yes	Addendum 1 - PreBid RFI/Sub. Request Log	None	11/3/2026	The soffit type MS01 at Area 1 to the west and north of Office No. 118 is at a higher elevation than the soffit area shown in Area 5 soffit type MS03. east of BEH No. 514.

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 8/21/2026 Date of Request: 8/13/2026

Project Name: JISD Atlas Ranch ES

SUBSTITUTION REQUEST BY:

Firm: Texas Lone Star Reps

Address: 2831 S Houston Ave., Bldg 1
Humble, TX 77396

Phone: 281-888-7464

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- ☐ APPROVED
- ☑ APPROVED AS NOTED
- ☐ NOT APPROVED
- ☐ SUBMITTED TOO LATE
- ☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: Approval contingent warranty requirements of Specification 7 5419 will be meet and product data can be provided that shows compliance of the exterior fire-test exposure requirements per Section 2.01 F of Specification No. 07 5419.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT Carlisle Sure-Weld PVC **SPECIFICATION SECTION** 075419

PROPOSED PRODUCT SUBSTITUTION Elevate MAX PVC

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Product Data Sheets are attached for comparison. I can send details, samples, and DWG/CAD files upon request.

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? N/A

What effect does Substitution have on Construction Schedule? N/A

Differences between proposed Substitution and specified item? The products are very comparable. The cost may be the only difference.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

Outside Sales Rep - Central/South TX
TITLE

8/13/2026
DATE

Huckabee

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 8/21/2026 Date of Request: 8/13/2026

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- ☐ APPROVED
- ☑ APPROVED AS NOTED
- ☐ NOT APPROVED
- ☐ SUBMITTED TOO LATE
- ☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: Approved at 22 gauge as required per Specification 07 4213 section B.2 only. Approval contingent on warranty requirements being met as noted on Section 1.07 of Specification 07413.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT PAC-CLAD HWP-12 **SPECIFICATION SECTION** 074213

PROPOSED PRODUCT SUBSTITUTION Elevate UnaClad Delta CFP-12F

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Product Data Sheets are attached for comparison. I can send details, samples, and DWG/CAD files upon request.

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? N/A

What effect does Substitution have on Construction Schedule? N/A

Differences between proposed Substitution and specified item? The products are very comparable. The cost may be the only difference.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

Outside Sales Rep - Central/South TX
TITLE

8/13/2026
DATE

Huckabee

ENGINEERED EXTERIORS
ARCHITECTURAL ENGINEERING & CONSULTING

Project No.:	066-047 JISD ES#5/Atlas Ranch
Submittal No.:	07 42 13 - Metal Wall Panels - PD

☐ **NOT REVIEWED** ☐ **FOR RECORD ONLY**	Document not reviewed as content is not related to building envelope; or is for record/information only.
☐ **NO EXCEPTIONS TAKEN** ☒ **REVIEWED AS NOTED**	Fabrication/Installation may be undertaken, provided all notes in review are incorporated. Contractor to advise if discussion of review notes is required. Failure to comply with notes is at Contractor's risk of rejection.
☐ **REVISE AND RESUBMIT** ☐ **RESUBMITTAL REQUESTED**	Additional or corrected information requested prior to fabrication/installation. Resubmit corrections for items that have been marked.

THIS DOCUMENT HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR THE TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES. **REVIEW APPROVAL DOES NOT: ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AUTHORIZE CHANGES TO THE CONTRACT SUM OR TIME, AND DOES NOT EXTEND THE CONTRACTUAL OBLIGATIONS OF THE ENGINEER OR CONTRACTOR.**

By: D. Czyzewski Date: 10/20/2026

Provide additional required submittal items as outlined in Part 1.04 under separate cover.

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 8/21/2026 Date of Request: 8/13/2026

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- ☐ APPROVED
- ☑ APPROVED AS NOTED
- ☐ NOT APPROVED
- ☐ SUBMITTED TOO LATE
- ☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: Approval contingent on warranty requirements being met as noted on Section 1.07 of Specification 07413.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT PAC-CLAD Flush Soffit **SPECIFICATION SECTION** 074213

PROPOSED PRODUCT SUBSTITUTION Elevate UnaCLad UC-500 Flush Soffit

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Product Data Sheets are attached for comparison. I can send details, samples, and DWG/CAD files upon request.

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? N/A

What effect does Substitution have on Construction Schedule? N/A

Differences between proposed Substitution and specified item? The products are very comparable. The cost may be the only difference.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

Outside Sales Rep - Central/South TX
TITLE

8/13/2026
DATE

Huckabee

ENGINEERED EXTERIORS
ARCHITECTURAL ENGINEERING & CONSULTING

Project No.:	066-047 JISD ES#5/Atlas Ranch
Submittal No.:	07 42 13 - Metal Soffit Panels - PD

☐ **NOT REVIEWED** ☐ **FOR RECORD ONLY**	Document not reviewed as content is not related to building envelope; or is for record/information only.
☐ **NO EXCEPTIONS TAKEN** ☒ **REVIEWED AS NOTED**	Fabrication/Installation may be undertaken, provided all notes in review are incorporated. Contractor to advise if discussion of review notes is required. Failure to comply with notes is at Contractor's risk of rejection.
☐ **REVISE AND RESUBMIT** ☐ **RESUBMITTAL REQUESTED**	Additional or corrected information requested prior to fabrication/installation. Resubmit corrections for items that have been marked.

THIS DOCUMENT HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR THE TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES. **REVIEW APPROVAL DOES NOT: ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AUTHORIZE CHANGES TO THE CONTRACT SUM OR TIME, AND DOES NOT EXTEND THE CONTRACTUAL OBLIGATIONS OF THE ENGINEER OR CONTRACTOR.**

By: D. Czyzewski Date: 10/20/2026

See comments within. Provide additional required submittal items as outlined in Part 1.04 under separate cover.

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 8/21/2026 Date of Request: 8/13/2026

Project Name: JISD Atlas Ranch ES

SUBSTITUTION REQUEST BY:

Firm: Texas Lone Star Reps

Address: 2831 S Houston Ave., Bldg 1
Humble, TX 77396

Phone: 281-888-7464

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☑ NOT APPROVED
- ☐ SUBMITTED TOO LATE
- ☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: ACM Panels are not part of the project scope.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT AlucoBond ACM Panels **SPECIFICATION SECTION** 074213.23

PROPOSED PRODUCT SUBSTITUTION Laminators ACM Panels

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Product Data Sheets are attached for comparison. I can send details, samples, and DWG/CAD files upon request.

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? N/A

What effect does Substitution have on Construction Schedule? N/A

Differences between proposed Substitution and specified item? The products are very comparable, but Laminators comes stock at 6mm vs 4mm. The cost is about the same, but the labor will be less as we only require clips on 2 sides vs all 4 sides (20% labor cost savings on install)

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

Outside Sales Rep - Central/South TX
TITLE

8/13/2026
DATE

Huckabee

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.17.26

SPECIFIED PRODUCT C/S PC **SPECIFICATION SECTION** 079513 - 2.02A.3

PROPOSED PRODUCT SUBSTITUTION ALCP Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for substitution. No significant variations between spec'd and proposed products

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT C/S FWF/FWFC **SPECIFICATION SECTION** 079513 - 2.02E.1, 2

PROPOSED PRODUCT SUBSTITUTION ELCW Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same _____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☑ NOT APPROVED
- ☐ SUBMITTED TOO LATE
- ☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: Not approved due to the CSS series not including prefabricated corners and transitions. MSDS not reviewed.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT Emseal Colorseal **SPECIFICATION SECTION** 079513 - 2.03A

PROPOSED PRODUCT SUBSTITUTION CSS Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☑ NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry
SIGNATURE

Technical Support Specialist
TITLE

10/13/26
DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT C/S ASM/ASMC **SPECIFICATION SECTION** 079513 - 2.02C.1, 2

PROPOSED PRODUCT SUBSTITUTION ENWJ Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

INSTRUCTIONS FOR USE OF SUBSTITUTION REQUEST FORM

STEPS

1. Substitution request **including all required documentation** must be emailed to the Project Leader at the Architects office no later than the date indicated in the specifications. Requests submitted late will not be considered. Contact information can be found on the Huckabee website bidding section under the specific project at: www.huckabee-inc.com/construction/

2. The Huckabee "Substitution Request Form" must be used for each project submitted for consideration.

3. The Individual or Firm requesting a substitution must document that the requested substitution is equal or superior to the specified product. Failure to provide clear, accurate, and adequate documentation will be grounds for rejection. Any re-submittal will be handled as a new request.

4. Required documentation shall consist of applicable information which would aid the Architect in making an informed decision. Include **side-by-side product comparisons**, technical data, laboratory test results, product drawings, etc. References shall include three projects which are from one to two years old, and three projects older than five years. Provide a list of references with the owner's contact name and telephone number.

5. If use of the proposed product would result in changes to the design of the building, the submittal shall describe fully the changes required to the drawings or specifications. Any cost differences resulting from modifications to the drawings and specifications and the cost of making the changes shall be borne by the Product Supplier.

6. **No** product will be considered "as equal" to the product specified until it has been included as an allowable substitution in a written Addendum to the project.

ENGINEERED EXTERIORS
ARCHITECTURAL ENGINEERING & CONSULTING

Project No.:	066-047 JISD ES#5/Atlas Ranch
Submittal No.:	07 95 13 - Exterior EJ
☐ **NOT REVIEWED** ☐ **FOR RECORD ONLY**	Document not reviewed as content is not related to building envelope; or is for record/information only.
☐ **NO EXCEPTIONS TAKEN** ☒ **REVIEWED AS NOTED**	Fabrication/Installation may be undertaken, provided all notes in review are incorporated. Contractor to advise if discussion of review notes is required. Failure to comply with notes is at Contractor's risk of rejection.
☐ **REVISE AND RESUBMIT** ☐ **RESUBMITTAL REQUESTED**	Additional or corrected information requested prior to fabrication/installation. Resubmit corrections for items that have been marked.

THIS DOCUMENT HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR THE TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES. **REVIEW APPROVAL DOES NOT: ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AUTHORIZE CHANGES TO THE CONTRACT SUM OR TIME, AND DOES NOT EXTEND THE CONTRACTUAL OBLIGATIONS OF THE ENGINEER OR CONTRACTOR.**

By: D. Czyzewski Date: 10/20/2026

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: MSDS was not reviewed.

BY: Amanda Tobola, AIA DATE: 10.19.26

SPECIFIED PRODUCT Emshield WFR2 **SPECIFICATION SECTION** 079513 - 2.02F

PROPOSED PRODUCT SUBSTITUTION CSS(2FR) Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same _____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.16.26

SPECIFIED PRODUCT C/S HC/HCW **SPECIFICATION SECTION** 079513 - 2.02D.1, 2

PROPOSED PRODUCT SUBSTITUTION ELCE Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry
SIGNATURE

Technical Support Specialist
TITLE

10/13/26
DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.16.26

SPECIFIED PRODUCT C/S GFT/GFTW **SPECIFICATION SECTION** 079513 Article/paragraph 2.02A.1,2

PROPOSED PRODUCT SUBSTITUTION ELCF Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 10/13/26 Date of Request: 10/13/26

Project Name: JISD Atlas Ranch New ES

SUBSTITUTION REQUEST BY:

Firm: Erie Metal Specialties (manufacturer)

Address: 13311 Main Rd., Akron, NY 14001

Phone: 716-542-3991

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

- [x] APPROVED
- [ ] APPROVED AS NOTED
- [ ] NOT APPROVED
- [ ] SUBMITTED TOO LATE
- [ ] FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS:

BY: Amanda Tobola, AIA DATE: 10.16.26

SPECIFIED PRODUCT C/S GFPS/GFPSW **SPECIFICATION SECTION** 2.02B.1, 2

PROPOSED PRODUCT SUBSTITUTION ELCFC Series

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

Equal product for substitution

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. [ ] YES [ ] NO [x] NOT APPLICABLE

What effect does the Substitution have on other trades? None

What effect does Substitution have on Construction Schedule? TBD - cost and lead time reduction anticipated

Differences between proposed Substitution and specified item?

Equal product for subsitution. No significant variations between spec'd and proposed products.

Manufacturer's guarantees of the proposed and specified items are: X Same ____ Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

Norman Fry

SIGNATURE

Technical Support Specialist

TITLE

10/13/26

DATE

Huckabee

100% Sign and Seal 10/08/2026

ENGINEERED EXTERIORS
ARCHITECTURAL ENGINEERING & CONSULTING

Project No.:	066-047 JISD ES#5/Atlas Ranch
Submittal No.:	07 54 19 - Roof Membrane - PD

☐ **NOT REVIEWED** ☐ **FOR RECORD ONLY**	Document not reviewed as content is not related to building envelope; or is for record/information only.
☐ **NO EXCEPTIONS TAKEN** ☒ **REVIEWED AS NOTED**	Fabrication/Installation may be undertaken, provided all notes in review are incorporated. Contractor to advise if discussion of review notes is required. Failure to comply with notes is at Contractor's risk of rejection.
☐ **REVISE AND RESUBMIT** ☐ **RESUBMITTAL REQUESTED**	Additional or corrected information requested prior to fabrication/installation. Resubmit corrections for items that have been marked.

THIS DOCUMENT HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR THE TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES. **REVIEW APPROVAL DOES NOT: ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AUTHORIZE CHANGES TO THE CONTRACT SUM OR TIME, AND DOES NOT EXTEND THE CONTRACTUAL OBLIGATIONS OF THE ENGINEER OR CONTRACTOR.**

By: D. Czyzewski Date: 10/20/2026

Under separate cover, provide additional required submittal items as follows:
1.05 A.2 and 2.03 - PD for auxiliary materials
1.05 A.3 - shop drawings
1.05 A.4 and 1.06 - QA submittals
1.05 A.5 - Roof assembly letter, including documentation that roof assembly complies with wind uplift requirements per 2.01 C
1.05 A.6 and A.7 - testing/evaluation reports
1.05 A.8 and 1.09 - sample warranties

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 11-10-26 Date of Request: 10-19-26

Project Name: Jarrell ISD Atlas Ranch Elementary School

SUBSTITUTION REQUEST BY:

Firm: Hunter Knepshield of TX Inc.

Address: Po Box 759
Van Alstyne, TX 75495

Phone: 800-451-4138

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

☐ APPROVED ☐ APPROVED AS NOTED

☒ NOT APPROVED ☐ SUBMITTED TOO LATE

☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: Superior only provides a custom disc shade which would typically cost more. What was specified in our plans was an off the shelf product which is more cost effective.

BY: Katy Coats, C&A DATE: 11/02/2026

SPECIFIED PRODUCT Cantilever Disc Shade Structure **SPECIFICATION SECTION** Sheet L1.15

PROPOSED PRODUCT SUBSTITUTION Superior Custom Cantilever Disc Shade

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

This Shade will be custom, have to request from design team

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? none

What effect does Substitution have on Construction Schedule? none

Differences between proposed Substitution and specified item? Casual

Manufacturer's guarantees of the proposed and specified items are: (If different, explain on attachment) Same Different

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

TITLE

10-19-26
DATE

Huckabee

100% Sign and Seal 10/08/2026

MORE THAN ARCHITECTS

SUBSTITUTION REQUEST FORM

Architect Project No: 1949-04-01 Bid Date: 11-10-26 Date of Request: 10-19-26

Project Name: Jarrell ISD Atlas Ranch Elementary School

SUBSTITUTION REQUEST BY:

Firm: Hunter Knepshield of Texas Inc.

Address: PO Box 759
Van Alstyne, TX 75495

Phone: 800-451-4138

Fax:

We hereby request that the following Substitution be allowed in lieu of the Product specified on the above project.

ARCHITECT / ENGINEERS RESPONSE:

☐ APPROVED ☐ APPROVED AS NOTED

☒ NOT APPROVED ☐ SUBMITTED TOO LATE

☐ FAILED TO PROVIDE ADEQUATE INFORMATION

REMARKS: After reviewing the Superior Amenities catalog, we can not find comparable fixtures to what we had specified in the plans.

BY: Katy Coats, C&A DATE: 11/02/2026

SPECIFIED PRODUCT Site furnishings **SPECIFICATION SECTION** 12 93 00

PROPOSED PRODUCT SUBSTITUTION Superior Site Amenities

This request includes the following: attached Technical Data, Laboratory Tests and proposed changes to the Drawings and Specifications, which the proposed Substitution will require for proper installation.

The Firm requesting the Substitution agrees to pay for changes to the building design, including Architectural, Engineering, and detailing costs caused by the requested Substitution. ☐ YES ☐ NO ☒ NOT APPLICABLE

What effect does the Substitution have on other trades? none

What effect does Substitution have on Construction Schedule? none

Differences between proposed Substitution and specified item? none
Minor appearance differences, VE option

Manufacturer's guarantees of the proposed and specified items are: Same / Different
(If different, explain on attachment)

The undersigned state that the function, appearance and quality are equivalent or superior to the specified item.

SIGNATURE

TITLE

10-19-26
DATE

Huckabee

SECTION 00 3132
GEOTECHNICAL DATA

PART 1 - GENERAL

1.01 SUMMARY

A. Related Documents: General and Supplementary Conditions of the Contract, Division 01 General Requirements, and Drawings are applicable to this Section.

1.02 INVESTIGATION

A. An investigation of subsurface soil conditions at the building site was authorized by the Owner, and these investigations were made by Alliance Engineering Group, report number AE26-0501-Revision #1, dated September 15, 2026 and Addendum Letter #1 (AE26-0501-Addendum Letter #1), dated October 22, 2026.

1.03 REPORT

A. The complete report of the testing laboratory follows this section and is provided for information only.

B. Report and log of borings are available for Contractor's information but is not a warranty of subsurface conditions, nor is it a part of the Contract Documents.

1.04 RESPONSIBILITY

A. Bidders are expected to examine the site and subsurface investigation reports and then decide for themselves the character of the materials to be encountered.

B. The Owner and Architect assume no responsibility for variations of subsoil quality or conditions.

C. The Owner and the Architect assume no responsibility for any conclusions or interpretations made on the basis of subsurface information contained in the contract documents.

PART 2 - NOT USED

PART 3 - NOT USED

END OF SECTION

ALLIANCE ENGINEERING GROUP, INC.

- GEOTECHNICAL ENGINEERING
- ENVIRONMENTAL CONSULTING
- CONSTRUCTION MATERIALS ENGINEERING
- CONSTRUCTION MATERIALS TESTING

Subsurface Exploration and Geotechnical Evaluation for New Elementary School No. 5 (Atlas Ranch) Jarrell, Texas

Prepared for:

Jarrell Independent School District
Jarrell, Texas

Prepared by:

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TBPE Firm No. 11290

Alliance Engineering Group Project No. AE26-0501- Revision #1

September 15, 2026

ALLIANCE ENGINEERING GROUP, INC.

- GEOTECHNICAL ENGINEERING
- ENVIRONMENTAL CONSULTING
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JARRELL ELEMENTARY SCHOOL #5 – ATLAS RANCH
JARRELL, TEXAS

ALLIANCE ENGINEERING GROUP, INC.
PROJECT # AE26-0501-R1

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SCOPE

This report presents the findings of a subsurface investigation and geotechnical evaluation conducted on the site located at approximate address 601 CR 344 in Jarrell, Texas for the proposed New Jarrell ISD Elementary School #5 (Atlas Ranch). This study was performed to evaluate subsurface conditions and provide soil-related design values for the building foundations, pavements, playgrounds, and track/grass field.

The site location is shown in Figure 1. This study was performed to evaluate subsurface conditions and provide detailed soil-related design recommendations for the proposed elementary building. Alliance Engineering Group, Inc. (Alliance) performed this subsurface exploration and geotechnical evaluation in general accordance with Alliance Engineering Group proposal P26-0414E, dated May 1, 2026.

The scope of services for this study included the determination of subsurface conditions through field and laboratory testing, an evaluation of the subsurface conditions relative to the proposed construction, and the preparation of a geotechnical report. This report includes subsurface investigation and geotechnical evaluation. A summary of our conclusions is presented in the following sections of this report.

The site was part of a former quarry. It does not appear that significant excavations were performed within the planned elementary school campus; however, fills upwards of two (2) to eight (8) feet were noted in the borings. This is further confirmed by historic satellite photographs, with show only minor excavations in this areas. Light tree cover was noted in the southern portion of the site with the remainder being primarily short native grasses and weeds.

The scope of services did not include an environmental assessment for the presence or absence of wetland or hazardous or toxic materials in the soil, air, surface water, or groundwater at this site. Alliance can perform a *Phase 1 Environmental Site Assessment* (ESA) or an *EPA All Appropriate Inquiry* (AAI) under separate contract.

SUMMARY

The subsurface conditions encountered during our exploration and our geotechnical engineering evaluations and recommendations are summarized in the following paragraphs. This summary should not be considered apart from the entire text of this report. The entire text should be read and evaluated prior to using our engineering recommendations for the preparation of design or construction documents. Details of our findings and recommendations are provided in subsequent sections of this report and in the attached figures.

1. Eight (8) exploratory borings were drilled to depths of six (6) to forty (40) feet below existing grades to evaluate soil and rock conditions. Four (4) of these exploratory borings were drilled to depths of forty (40) feet below existing grades and using a rock core barrel to obtain intact samples of the underlying limestone. In addition, twelve (12) exploratory borings were drilled to auger refusal at depths of three (3) to four and a half (4½) feet for the paving, playgrounds and track/grass field.

2. Groundwater was not encountered in any of the borings, other than the water added for rock core operations.
3. Based on the available soil information and the revised assumed structural loads provided by the structural engineer, the proposed construction of the column loads of the building may be supported on drilled shafts founded in the light brown and gray limestone and wall strip footings and floor slabs may be supported on a prepared subgrade.

SITE LOCATION AND CONDITIONS

The project site is located at an approximate address of 601 CR 344 in Jarrell, Texas. The site is vacant and undeveloped; however, based on historic satellite photographs, the site was formerly a part of a quarry operation. It does not appear that significant excavations were performed within the planned elementary school campus; however, fills upwards of two (2) to eight (8) feet were noted in the borings. This is further confirmed by historic satellite photographs, with show only minor excavations in this areas. Light tree cover was noted in the southern portion of the site with the remainder being primarily short native grasses and weeds. The former quarry is shown in the historic satellite photograph, shown below:

Photograph 1

2012 Historic Satellite Photograph



PROPOSED DEVELOPMENT AND CONSTRUCTION

It is our understanding that the project is to include the construction of a new elementary school campus. The building appears to be a two-story, metal framed building. The camps will also contain pavements, playgrounds, and track/grass field.

GEOLOGY MAPPING INFORMATION

According to available geologic mapping information by U.T. Bureau of Economic Geology, the site is located within the Edwards Limestone Geologic Formations. The Edwards Limestone is generally comprised of relatively thin highly plastic clay over limestone. The limestone tends to be karstic* and/or vuggy** within the project area and may contain dissolution pores and voids. Clay, flint and chert infills of the pore spaces are also common in the Edwards Limestone. A geology map is provided in Figure 3

***Karst is a geologic feature formed from the dissolution of soluble rocks such as limestone. It is characterized by underground drainage systems with the potential for sinkholes and caves.**

**** Vuggy is defined as having small to medium-sized cavities inside rock. It may be formed through a variety of processes; however, in this region of Central Texas, the vuggy feature is generally caused by dissolution of the limestone by water.**

The site is located at the interface of two Geologic Formations. The Edwards Limestone does contain potential geologic hazards. Rock cores of the limestone, do show minor karstic features, voids of one (1) foot or less and vuggy structure. The Karst and vuggy structures tend to be about twenty (20) feet of more below existing grade.

FIELD EXPLORATION AND LABORATORY TESTING

Eight (8) exploratory borings were drilled for the subsurface investigation. Four (4) borings were drilled to maximum depths of forty (40) feet below existing grade using rock core methods to sample the limestone and four (4) borings were drilled to auger refusal at depths of six (6) feet. In addition, twelve (12) exploratory borings were drilled to auger refusal at depths of three (3) to four and a half (4½) feet for the paving, playgrounds and track/grass field.

Drilling was performed using a conventional truck-mounted drilling rig equipped with 4-inch diameter continuous flight solid stem augers, thin-walled Shelby Tube, split spoon samplers and a rock coring barrel. Soil samples were collected and delivered to our laboratory. Representative soil samples were selected and tested to assist with soil classification and to determine pertinent engineering and physical characteristics. Tests were performed in general accordance with applicable ASTM standards. Results of the laboratory tests are included on the boring logs and in figures attached to this report.

Specialized testing to determine the presence of chemicals in soil samples (e.g., sulfates, chlorides) was not requested. Soil samples remaining after testing will be kept for 2 months. Samples will then be discarded unless we receive instructions regarding their disposition.

SUBSURFACE CONDITIONS

Information from the exploratory borings indicates the soil stratigraphy consists of three (3) distinguishable strata. The characteristics of the strata are summarized in the following paragraphs.

1. **DARK BROWN AND LIGHT BROWN, LEAN CLAY (CL), FAT CLAY (CH), GRAVELLY LEAN CLAY (CLG) AND CRUSHED LIMESTONE (GS):** Stiff to hard, moist to dry, dark brown and light brown, variable layers of lean clay, fat clay, gravelly lean clay and crushed limestone soils were encountered from the surface to approximately two and a half (2½) to eight (8) feet below existing grade, in the building area. Some of the variable soils were fill soils, from the previous quarry operations. Laboratory and field test results for the fat clay are shown in **Table 1**.

Table 1

Test Results for LEAN CLAY (CL), FAT CLAY (CH), GRAVELLY LEAN CLAY (CLG) AND CRUSHED LIMESTONE (GS)

Test Performed	Value(s)	
Atterberg Limits	Liquid Limit: 22 - 80	Plasticity Index: 6 - 49
Material Passing #200 Sieve (%)	44 – 98	
Moisture Content (%)	9 – 22	
Standard Penetration Test Value	18 blows per foot to 50 blows for 4.5” of penetration	
Sulfate Content:	B-2 0’-2’ - <300 ppm B-5 4½’-6’ - <300 ppm	

2. **LIGHT BROWN, LEAN CLAY/SEVERELY WEATHERED LIMESTONE, (CL/SWLS):** Hard (rock basis) / soft (rock basis), light brown lean clay/severely weathered limestone was encountered below the variable soils at depths of . The thickness of the weathered limestone varied from two and a half (2 ½) to eight (8) feet below existing grade and continuing to depths of four (4) to seven (7) feet below existing grade. The lean clay/severely weathered limestone was not encountered in Boing B-5. Laboratory and field test results for the weathered limestone are shown in Table 2.

Table 2

Test Results for LEAN CLAY/SEVERELY WEATHERED LIMESTONE, (CL/SWLS)

Test Performed	Value(s)
Material Passing #200 Sieve (%)	33 – 84
Moisture Content (%)	15 – 22
Standard Penetration Test Value	50 blows for 0.5” to 5.5” of penetration

3. **VERY PALE BROWN, LIGHT BROWN AND WHITE, HARD (ROCK BASIS), LIMESTONE (LS):** Hard (rock basis), very pale brown, light brown and white limestone was encountered at depths of four and a half (4½) to eight (8) feet below existing grade and continued to depths of twenty (20) to twenty-five (25) feet below existing grade. The upper portions of this limestone stratum, that was not removed during the quarry operations, contains abundant dissolution cavities that have been filled is with clay and are highly fractured and have very low core recovery quality designation (RQD). The lower portion of this stratum is more intact. The laboratory and field test results for the very pale brown, light brown and white limestone are shown in Table 3.

Table 3

Test Results for LIMESTONE, (LS)

Test Performed	Value(s)
Moisture Content (%)	0 – 11
Core Recovery (%)	27 – 100
Core RQD (%)	0 – 72
Unconfined Compressive Strength (ksf)	155.6 – 587.9
Unit Weight (pcf)	126.1 – 163.37

1. **LIGHT BROWN AND GRAY, HARD (ROCK BASIS), LIMESTONE (LS) AND VUGGY LIMESTONE (LS):** Very hard (rock basis), light brown and gray, limestone and vuggy limestone was encountered below the upper limestone at depths of twenty (20) to twenty-five (25) feet below existing grade and continued to depths of over forty (40+) feet below existing grade. The vuggy nature of this limestone resulted in low RED values and limited sampled for unconfined compression testing. The laboratory and field test results for the limestone and vuggy limestone are shown in Table 4.

Table 4

Test Results for LIMESTONE (LS) and VUGGY LIMESTONE (LS)

Test Performed	Value(s)
Core Recovery (%)	45 – 92
Core RQD (%)	0 – 38

GROUNDWATER

Groundwater was not observed at any of the borings during our field activities, prior to the addition of water for rock core operations. Certain depths indicated significant water loss during drilling, indicating the vuggs, cavities and voids extended far beyond the width of the borings.

The borings tend to indicate the lack of a near-surface permanent groundwater layer. Minor pockets of groundwater may be present in the limestone, but were not encountered in our borings. Groundwater can be temporary instead of perennial, and water levels at later dates could be different from those observed during the subsurface exploration. This is often related to seasonal weather conditions. The owner, general contractor, and site civil engineer should be aware of the possibility of encountering groundwater during construction and the need to install a groundwater collection and removal system.

POTENTIAL MOVEMENT OF THE CLAY SOILS

The TxDOT Potential Vertical Rise (PVR) (Tex-124-E) considering existing conditions and existing overburden pressure was calculated to be about 1 inch or less at the surface. However, due to the potential of fat clays soils may have been used as fill in areas outside our borings, we must express higher PVR values are possible.

The soils were modeled to be in an initially “dry” moisture condition as defined by the method at the time of construction and the thickness of the active zone was assumed to be about 6 feet. Note that the TxDOT PVR method assumes limited wetting occurs and should only be used as an index tool. The TxDOT PVR value represents season moisture variance and does not consider extreme weather conditions such as extended drought. It should not be considered an accurate estimate of maximum potential vertical heave.

The amount of total and differential heave or shrinkage is impossible to accurately predict because it will depend on the extent of impervious cover around the building, seasonal changes in climate conditions, drainage conditions, presence of leaking water supply pipes or sewer pipes, groundwater conditions, landscape watering on adjacent properties, and varying thickness and physical characteristics and mineralogy of the clay soils.

FOUNDATIONS

Based on the available soil information, proposed construction, and assumed structural loads, the column and wall loads of the building may be supported on drilled shafts. The slab may be ground supported on a prepared subgrade of compacted flexible base or alternate select fill.

Grading across the site will vary from about two (2) feet of cut in the north portion of the building to about four (4) feet of fill in the southwestern portion of the building.

Floor Slab Support

The floor slabs may be ground support on a prepared subgrade. The subgrade should be prepared by excavating the existing fill soils to the top of natural weathered limestone, between two and a half (2½) to eight (8) feet below existing grade. The deeper soil areas are anticipated to be limited to the pond area shown in **Illustration #1**, below. The excavated soil should be replaced with properly compacted and tested flexible base or alternate select fill to finish grade. The prepared subgrade should experience about ½ inch of potential soil movement.

Illustration #1

Deeper Building Pad Excavation Area



We recommend the subgrade improvement envelope extend beyond the building perimeter and include all of the area marked in "BLUE" in **Illustration 1**. The excavation shall be observed by Alliance Engineering Group, Inc. to ensure the removal extends to the vertical and lateral extents of the former pond. The improved subgrade should extend below the planned future building pad, concrete patios/connecting flatwork, basketball courts,adjacent sidewalks and entrance flatwork to the street curbs. This extended improved subgrade will help to limits differential movements between the buildings and adjacent elements.

Alliance Engineering Group recommends that flexible base conform to the **Maximum Liquid Limit, Plasticity Index (PI) and Gradation** of **2024 TxDOT Specification Book** Flexible Base Material TxDOT Item 247, Type A or D, Grade 1-2, or 3.

Alternate Select Fill shall consist of either onsite milled onsite weathered limestone or off-site clayey gravel (CG), clayey sand (SC) or sandy lean clay (CLS). The alternate select fill shall have a **maximum liquid limit of forty (40), a plasticity index between four (4) and twenty (20), a maximum percent passing #200 sieve 70 percent and maximum particle size of four (4) inches**:

Flexible base and/or alternate select fill shall be placed in horizontal loose lifts of not more than 8 inches in thickness. Flexible base and/or alternate select fill shall be moisture treated and compacted to achieve a minimum relative compaction as stated below:

- Fills 0 to 5 feet below finished grade shall be compacted to minimum of 98% based on the maximum dry unit weight as determined by the Standard Proctor method (ASTM D 698).

- Fills over 5 feet below finished grade shall be compacted to minimum of 100% based on the maximum dry unit weight as determined by the Standard Proctor method (ASTM D 698).

- Moisture content of flexible base material should be within 3 percentage points of the optimum moisture content at the time of compaction.

The floor slabs may utilize a net allowable bearing pressure of 3,000 psf flexible base subgrade and subgrade modulus of 220 pcf or a net allowable bearing pressure of 2,000 psf flexible base subgrade and subgrade modulus of 150 pcf for the alternate select fill.

Portions of the slab will be exposed concrete. In order to limit the potential for uncontrolled shrinkage cracking to following items are recommended:

- A concrete mix, with a lower water to cement ratio
    - Water-Reducing ad-mixtures to reduce water in concrete
    - Retarding admixture to slow to set and release of water,
- Proper crack controlling reinforcing at corners, transitions, penetrations, etc.
- Seal-coating the surface after finishing to retain moisture

Continuous/Strip Footing Foundations

The shallow continuous/strip footing foundations should be designed in accordance with the following information:

1. A net allowable bearing pressure of 4,000 psf can be used to design rectangular or circular drilled spread footing or strip footings in the flexible base subgrade or 2,500 psf for the alternate select fill.

2. Perimeter footings should extend at least 24 inches below final adjacent exterior grades and have a minimum width of 24 inches and be properly reinforced. The design grade beam width and depth will be determined by the project Structural Engineer.
3. Prior to concrete placement, a representative of owners third-party testing lab shall observe and observe the footing subgrade to determine if the foundations are being placed on suitable materials.

Drilled Shaft Foundations

Drilled shaft foundations shall be designed to support the loads of the column of the buildings or other structures such as light poles, light standards or canopies. The drilled shafts will support both downward loads and resist uplift and lateral loading conditions. **Drilled shafts founded in the bearing material may be designed based upon the values provided in Table 5.**

Foundations proportioned in accordance with the values presented in **Table 5** will have a minimum factor of safety of three and will experience negligible settlement after construction. The weight of the shafts below final grade may be neglected in determining the design loads.

Table 5:

Vertical Load Design Parameters

Shaft Type:	Straight-Sided
Bearing Stratum:	Very Pale Brown and Light Brown Limestone (Slightly Fractured to Fractured) and Light Brown and Gray Limestone/Vuggy Limestone **(Note: if planned shaft depths stops on a void or very vuggy layer, borings shall be continued to the next competent limestone layer)**
Approximate Bearing Elevation:	Approximate Elevation 770 feet 11 to 16 feet below existing grade
Minimum Penetration:	N/A*
Minimum/Maximum Shaft Diameter:	18 / 30 inches
Groundwater Depths:	N/A
Probability of Use of Temporary Casing:	Low
Probability of Use of Pumps for Pouring Concrete:	Moderate
Net Allowable End Bearing Pressure:	20,000 psf (Below Minimum Penetration)
Net Allowable Side Friction:	1,200 psf (Below 770 feet)

*No minimum penetration needed due to presence of overlying limestone

Note: The limestone does contain vuggy layers and small voids. If required drilling penetration ends on a void or highly vuggy limestone seam, the shaft shall be extended to the next competent limestone layer. This may result in some additional drilling, in select shafts, and the additional drilling shall be treated as required depth.

Due to the fractured nature of the upper limestone, we anticipate some water percolation into the shafts may occur, depending on the time of year and/or recent weather conditions. We anticipate that pumps will be sufficient to remove the water. A maximum of 4 inches of water may remain in the shaft prior to concrete placement.

The drilled shafts will be subjected to uplift pressures created by expansive movements within the surrounding soils. These forces will be resisted by weight of the drilled shaft and skin friction within the

minimum shaft penetration. For the ease of the design, we recommend approximating uplift pressures as 200-psf acting over the perimeter of the upper 5 feet of each shaft. Accordingly, shafts should be steel reinforced over their full depth to counteract these forces.

Drilled Shaft Foundation Construction Considerations

Due to the nature of the soils present at the site, we recommend drilled shaft construction be monitored by the Geotechnical Engineer, or his qualified representative, to observe installation of the shafts to make field adjustments if needed. Drilled shaft construction should also be monitored by a representative of the geotechnical engineer to observe:

1. The bearing material is being properly identified
2. Adequate depth of excavation is provided
3. The base and sides of the excavation are clean and free of loose cuttings; and
4. If seepage is encountered, whether the use of pumps will be needed to remove sufficient water from the shaft, 4 inches maximum

Precautions should be taken during the placement of reinforcing steel and concrete to prevent loose, excavated soil from falling into the excavation. Concrete should be placed as soon as practical after completion of the drilling, cleaning and inspection. Excavations should be filled with concrete before the end of the workday, thus preventing excessive deterioration of the bearing material.

Groundwater was not encountered in any of our borings. However, due to the fractured nature of the upper limestone, we anticipate some water percolation into the shafts may occur, depending on the time of year and/or recent weather conditions. We anticipate that pumps will be sufficient to remove the water. A maximum of 4 inches of water may remain in the shaft prior to concrete placement. Scheduling of concrete shall be planned such that shaft may be poured immediately after pumping sufficient water from the shafts.

Shafts should be filled with concrete before the end of the workday, thus preventing excessive deterioration of the bearing material. No more than two inches of water should be present at the bottom of the shaft when concrete placement begins. Loose soil or debris should not be present at the bottom of the shaft when concrete placement begins. Poor cleaning of compressible cuttings at the bottom can lead to significant settlement.

To reduce the potential for arching within the shaft, Alliance recommends using a concrete mix with a slump of five (5) inches to seven (7) inches. A tremie pipe should be utilized to place concrete to prevent segregation of and to prevent movement of the reinforcing steel cage. A free-fall method might allow the concrete to strike reinforcing steel, casing, or shaft sidewalls, causing segregation and undesirable

concrete strength properties. A free-fall method is acceptable if the concrete is directed through a hopper and falls down the center of the shaft without striking the sides of the shaft or the reinforcing steel cage.

If the concrete has a slump less than or equal to seven (7) inches, the upper five (5) feet of concrete should be vibrated to assure proper consolidation in that region. If the slump is greater than seven (7) inches, the concrete should not be vibrated because of the potential to segregate cement and aggregates.

Concrete material should be sampled and tested for compressive strength and placement operations should be monitored to record concrete slump, temperature, and age at time of placement. Concrete batch tickets should be provided by the supplier so water-cement ratios and cement content can be checked and documented

Laterally Loaded Drilled Shafts

For laterally loaded piers, the required soil input data is listed in the following table. These values may be used in the program LPILE by ENSOFT, Inc. **Table 6** presents approximate soil thicknesses and soil properties for each soil/rock stratum.

Table 6

LPILE SOIL DESIGN PARAMETERS

SOIL STRATA FROM SOILS BORINGS	Flexible Base	Lean Clay/ Severely Weathered Limestone	Light Brown, Very Pale Brown and Gray Limestone/Vuggy Limestone
LAYER THICKNESS (ft)	6	3	10+
LPILE SOIL P-Y CURVE MODEL	Sand	Stiff clay w/o free water	Stiff clay w/o free water
EFFECTIVE UNIT WEIGHT[1] (pcf)	135	125	135
FRICTION ANGLE	35	N/A	N/A
UN-DRAINED COHESION, c (psf)	N/A	1,000	2,000
STRAIN FACTOR, ε_{50}[1] (in/in)	Use LPILE Default Value	Use LPILE Default Value	Use LPILE Default Value

Subgrade Treatment Below Playgrounds and track/grass field.

Based on the grading plan, the playgrounds and track/grass areas are anticipated to require zero (0) to 2 feet of fill. The subgrade should be prepared by excavating the existing clays, gravel and fill to the top

of limestone, between zero (0) to eight (8) feet. The deeper soil areas are anticipated to be limited to the pond area shown in **Illustration #1**.

The excavated soil should be replaced with properly compacted and tested alternate select fill. The prepared subgrade should experience about ½ inch of potential soil movement. The prepared subgrade should experience about ½ inch of potential soil movement.

SITE PREPARATION AND EARTHWORK

All of the topsoil (soil with high organic content, e.g. >4%), tree roots, vegetation, wet soils, and any soft or loose soils or encountered existing fill areas must have been removed from the proposed building and paving areas. The stripped materials may either be wasted or stockpiled for later use in landscaping. The bearing capacity of the improved building subgrade material is based on the assumption that the material(s) will meet **2024 TxDOT Specification Book Item 247 Type A, Grade 1-2, 3 or Alternate Select Fill** specifications for Maximum Liquid Limit, Plasticity Index (PI) and Gradation noted on **Page 8:**

Table 7:

Flexible Base Requirements Under Building

Property	Test Method	Grade 1-2	Grade 3
Sampling	Tex-400-A		
Master gradation sieve size (cumulative % retained)	Tex-110-E		
2-1/2"		0	
1-3/4"		0–10	0–10
7/8"		10–35	
3/8"		30–65	
#4		45–75	45–75
#40		65–90	50-85
#200		85 – 95	
Liquid Limit, % Max	Tex-104-E	40	40
Plasticity Index, Max[1]	Tex-106-E	10	12

Alliance Engineering Group recommends that flexible base, alternate select fill and backfill be placed in horizontal loose lifts of not more than 8 inches in thickness. Flexible base shall be placed and compacted per the requirements noted in **Table 8**.

Fill materials should not be placed on soils that have been recently subjected to precipitation or saturation. All wet soils should be removed or allowed to dry prior to continuation of fill placement operations. Imported fill materials should not contain wet materials at the time of placement.

If any problems are encountered during the earthwork operations, or if site conditions differ from those encountered during our subsurface exploration, the Geotechnical Engineer should be notified immediately to determine the effect on recommendations expressed in this report.

Appropriate laboratory tests such as Proctor moisture-density tests should be performed on samples of fill material. Field moisture-density tests and visual observation of lift thickness and material types should be performed during compaction operations to verify that the construction satisfies material and compaction requirements.

Any areas previously tested and found to be in compliance with project specification that are exposed to measurable rainfall, shall be retested prior to the placement of additional material. This may require re-working of the material. If any problems are encountered during the earthwork operations, or if site conditions differ from those encountered during our subsurface exploration, the Geotechnical Engineer should be notified immediately to determine what, if any effect, they may have on the recommendations expressed in this report. Fill compaction parameters are provided in **Table 8.**

Table 8:

Fill Compaction Parameters

Material/Use		Proctor Standard	Percent Compaction	Moisture Content
Building	Flexible Base/Alternate Select Fill	Standard (ASTM D698)	95+	-3 to +3
	General/Utility Fill	Standard (ASTM D698)	95	Opt +
Non-Structural	Backfill	Standard Proctor (ASTM D698)	90	-3 to +3
Paving	Flexible Base	Modified (ASTM D1557)	95+	-3 to +3
	Moisture-Conditioned Subgrade	Standard (ASTM D698)	92 - 98	+2 to +6
	General/Utility Fill	Standard (ASTM D698)	95	Opt +

UTILITY EXCAVATIONS

Excavations for the underground utilities at the project site are anticipated to encounter limestone at relatively shallow depths ranging from 2½ to 4 feet. Based on the information obtained from the geotechnical investigation, some excavations may encounter intact limestone. This limestone can be very difficult to excavate using excavators. The variable strength and clay seams of the limestone may also cause potions of the limestone to fracture outside the desired excavation and produce large blocks and chunks. The over-excavations would cause additional backfilling and processing or removal of large limestone boulders.

Water removal, both during and after construction, should be planned for in design, particularly in downhill areas. The granular materials associated with pipe bedding and anticipated limestone backfill may act as a trench drain conveying water from uphill and collecting or outcropping in lower areas. The water removal may include drains to ditches which would reduce the buildup of water below grade.

UTILITY LINES AND CONDUITS AT BUILDING PERIMETER/IMPROVED SUBGRADE ENVELOPE

Based on our understanding of the planned utilities, we do not foresee any significant potential for differential movements in underground utility lines at the building and/or improved subgrade envelope. No special utility line preparation is recommended.

SURFACE DRAINAGE

Performance of foundation slabs and flatwork is influenced by changes in subgrade moisture conditions. Carefully planned and maintained surface grading can reduce the risk of wetting of the foundation soils. We recommend the following precautions be implemented and maintained during construction and throughout the life of the structure:

A. In exposed soil areas, the ground surface should be sloped away to provide positive drainage away from the structure perimeter. We recommend a minimum constructed and maintained slope of 6 inches along the first 10 feet from the edge of the foundation slab if practical. Water must not be allowed to pond adjacent to the foundation slab.

B. Roof gutters will be installed, the roof drain downspouts will be connected to stormwater lines.

C. The importance of proper owner irrigation practices cannot be over-emphasized. Irrigation should be limited to the minimum amount sufficient to maintain vegetation. Application of excess water will increase the likelihood of foundation slab movement, as will failure to water during drought summer seasons.

D. If shrubs must be placed adjacent to the structures, the landscape beds or planters should be elevated above grade and should be underlain by an impermeable geosynthetic geomembrane to

prevent water from ponding along the exterior walls and infiltrating into the grade beam subgrade. The membrane will also help limit evaporation (drying) of clay soils underneath the grade beam.

E. If an exterior sprinkler system is installed to water landscaping, the sprinkler lines should not be placed within 5 feet of the edge of the foundation. Instead the lines should be placed so that sprinkler heads with sufficient capacity are used and direct water toward the structure from 5 feet away. It is the owner's responsibility to maintain constant moisture conditions in the soils around the foundation slab.

F. The owner should monitor their water meter or water bills to determine if a water leak develops in the water supply system or sprinkler system (if used). Leak tests can be performed on water supply, sprinkler, and sewer systems to determine if a leak exists. Any leaking pipes should be repaired as soon as possible to stop the increase in moisture content in the underlying clay soils.

PAVEMENT DESIGN PARAMETERS AND SECTIONS

Paving sections analyses were performed using Windows based Pavement Analysis System (WINPAS) which utilizes AASHTO design methodology. Our analysis also takes into consideration the potential movements of the expansive clay soil on the site.

The bus traffic pavement analysis was performed assuming various school bus types. Busses vary in weight from 25,000 to 36,000 pounds and have an equivalent 18-kip single axle load factor of 1.3 to 3.2. Car parking and parent drop-off traffic was assumed to consist of passenger cars and light trucks.

Table 9:

Bus Traffic Parameters

Bus Traffic Road	Vehicle Information
Vehicle Type	School Bus
E-18KSAL Factor	1.3 to 3.2
Trips Per Day	45
Days Per Week	5
Design Life	20 Years
Design E-18KSAL	250,000

Table 10:

Car Traffic Parameters

POV Parking Lot and Parent Drop-off	Full Parking Lot Capacity
E-18KSAL Factor	0.01
Parking Lot Capacity	<200
Trips Per Day	2
Design Life	20 Years
Design E-18KSAL	16,000

Table 11:

General Pavement Design Parameters

Parameter	Values
Confidence Level, %	90
Analysis Period	20 years
Growth Rate, %	0.0
Swell Probability	0.0
Potential Vertical Rise, in	1.0

Table 12:

Recommended Pavement Sections

Pavement Condition	Design E-18KSAL's	Concrete Section
Bus Traffic Loop, Access Road and Fire Lanes	250,000	5.5" Concrete 6" Flexible Base 6" Moisture Conditioned Subgrade
Car Parking Lot and Parent Drop-Off Loop	16,000	5" Concrete 6" Flexible Base 6" Moisture Conditioned Subgrade
Dumpster Approach and Maintenance Courtyards	N/A	6" Concrete 6" Flexible Base 6" Moisture Conditioned Subgrade

The following pavement material and construction specifications are presented and referenced for your use based on the Texas Department of Transportation (TxDOT) Standard Specifications (2014 Edition).

1. Hot Mix Asphaltic Concrete Surface Course – TxDOT Item 340, Type D or C.
2. Flexible Base Material - TxDOT Item 247, Type A, Grade 1-2, compacted to a minimum of 100 percent of the maximum dry density as per the TEX 113E proctor method or 95 percent of the maximum dry density as defined by an ASTM D-1557 modified proctor.
3. Moisture-Conditioned Subgrade - Moisture-conditioned soil shall be moisture treated and compacted to achieve a relative compaction between 92% to 98% based on the maximum dry unit weight as determined by the Standard Proctor method (ASTM D 698). Moisture contents should range from two to five percent above the optimum moisture content (+2 to +5) at the time of compaction.

Concrete should have a minimum flexural strength of 600 psi at 28 days that corresponds to roughly 3,600-psi compressive strength. Concrete should be steel reinforced and include joints to control the formation of temperature and shrinkage related cracks. Concrete should include air entrainment to increase the resistance to temperature effects. As a general guide, the air entrainment should range from 4 to 6 percent.

SIDEWALK PAVING AND SUBGRADE PREPARATION

This sidewalk movement can be detrimental (trip hazard, non-compliant ADA slopes, etc.) in areas sensitive to movement, such as: 1) building patios and entries 2) sidewalks that abut the building, 3) areas that require ADA compliance (near building patio and entrance and at curb ramps). We do not believe it is required that every area be treated, but a strategic approach that minimizes the effects of that movement at critical areas.

The vast majority of the sidewalk and flatwork areas sensitive to movement are included in the improved subgrade envelope. These areas are anticipated to have potential movements similar to the building, about ½ inch. The sidewalks/flatwork inside the improved subgrade envelope areas may be doweled to the building foundation to lessen any differential movements.

IBC SITE CLASSIFICATION

It is assumed that the foundation will be developed using the 2018 International Building Code. Based on the site-specific undrained soil strengths values using Table 20.3.1 of ASCE 7, Site Class C should be used. Note that the site classification is based on the upper 100 feet of the subgrade. Although the borings for this project were not advanced to this depth, our knowledge of the local geologic formations have been considered based on the results of the borings.

CONSTRUCTION QUALITY CONTROL

Alliance Engineering Group has provided **Table 13** below as a recommendation for minimum quality control measures during the construction of new and existing structures.

Table 13:

Recommendations for Quality Control

TYPE OF WORK	ITEM	SAMPLE FREQUENCY	SAMPLE SIZE	MINIMUM TESTING
General Earthwork, Subgrade and Fill	Soil Material	1 per soil type	75 lbs.	Sieve Analysis Atterberg Limits (PI) Proctor
	Compaction	1 Per 2,500 square feet per lift or a minimum of 3 tests		Field Density Test
Crushed Limestone Base	Flexible Base Material	1 per material type & for each 1,000 yd^3	150 lbs.	Sieve Analysis Atterberg Limits (PI) Proctor
	Compaction	1 Per 2,500 square feet per lift or a minimum of 3 tests		Field Density Test

LIMITATIONS

Borings were spaced to obtain a reasonable indication of subsurface conditions. The data from the borings is only accurate at those exact locations. Variations in the subsurface conditions are possible and groundwater levels vary with time. The recommendations in this report were developed considering conditions exposed in the exploratory borings and our understanding of the type of structures planned. This report does not reflect variations that may occur around the borings. If variiations are observed, a re-evaluation of the recommendations in this report will be necessary to determine their impact to the overall performance of the foundation.

Alliance believes the geotechnical services for this project were performed with a level of skill and care ordinarily used by geotechnical engineers practicing in this area at this time. No warranty, express or implied, is made.

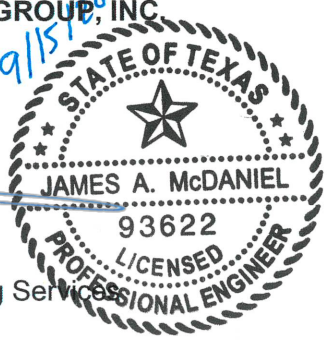
The performance of foundations is primarily controlled by the quality of the construction. To prevent misinterpretation of our recommendations, and to document proper construction, we recommend that Alliance should be retained to perform full-time quality control testing, observation, and documentation during construction of the foundations.

We appreciate the opportunity to serve as your geotechnical consultant for this project. If there are questions regarding the content or recommendations presented in this report, please contact our offices at your convenience.

Respectfully,

ALLIANCE ENGINEERING GROUP, INC.
TBPE Firm No. F-11290

9/15/2026



James A. McDaniel, P.E.
VP Geotechnical Engineering Services

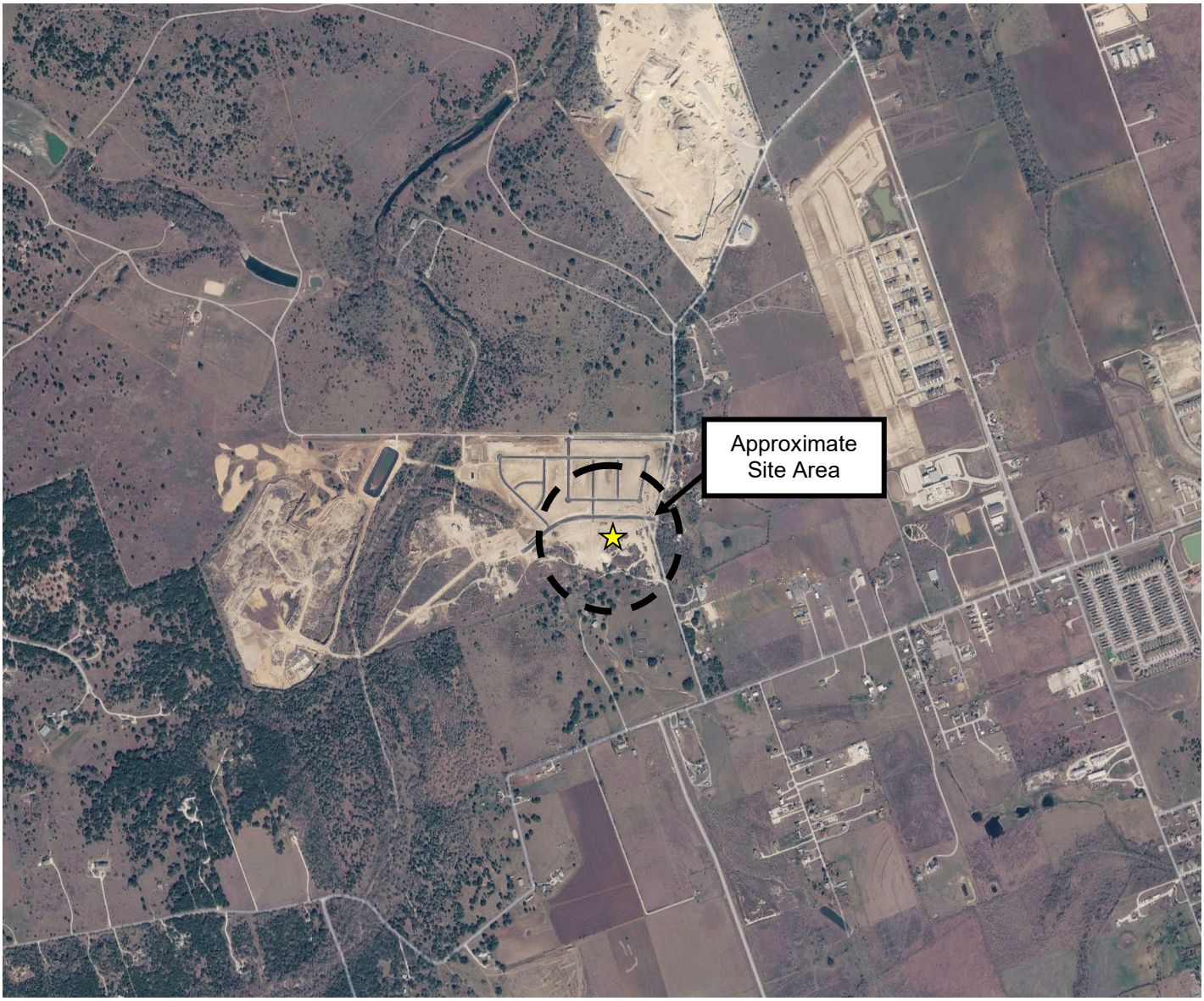
Chris D. Luoma, CET
VP Construction Materials Testing Services

JAM/jk

Dist: Jarrell ISD: c/o Sledge Engineering (stephen@sledge.biz)

cc: File

z:documents/projects/engineering/2026/AE260501/Report-R1.doc

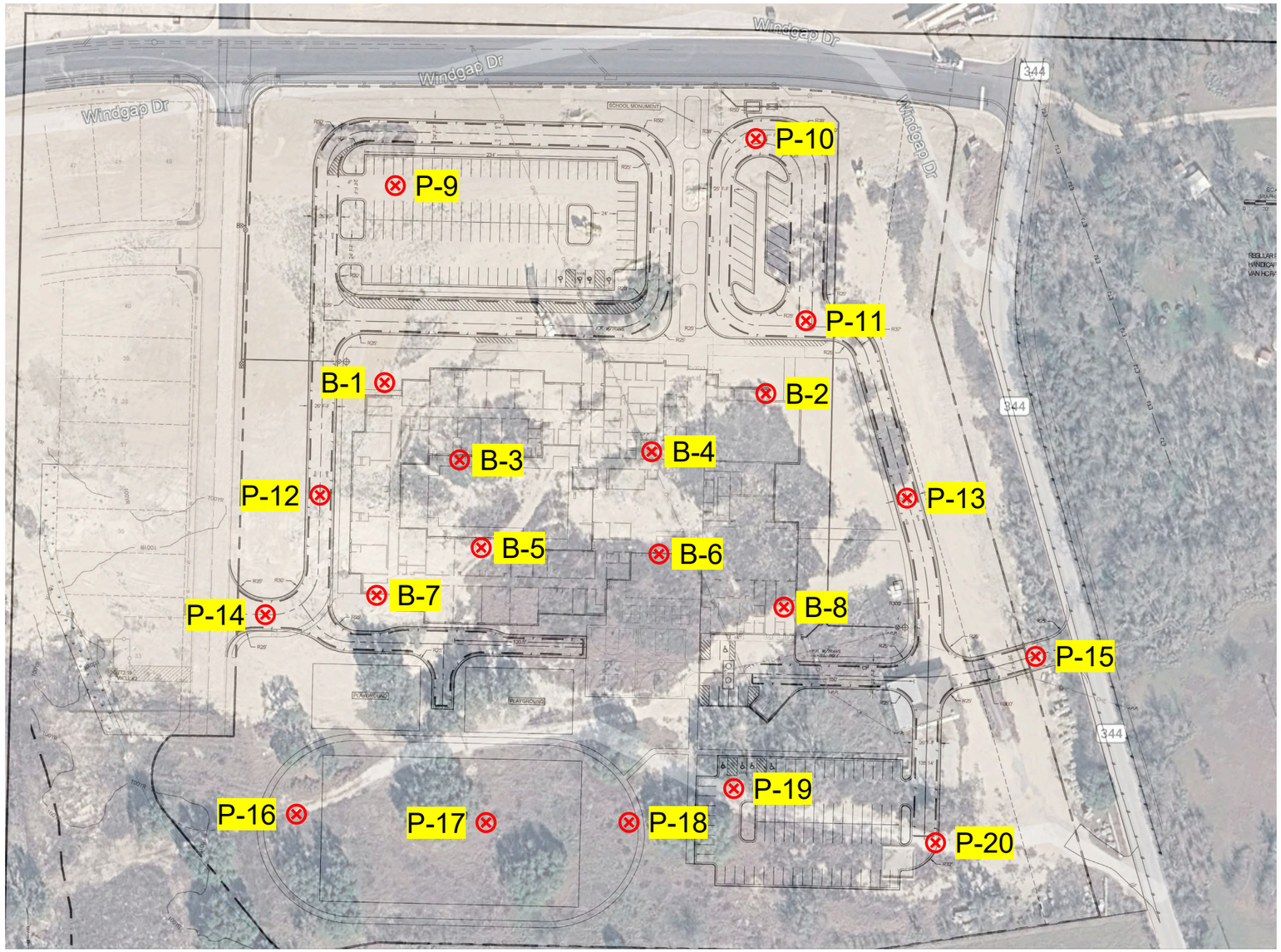


Vicinity Map

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By:	Scale:	Project #:
JAM	NTS	AE26-0501
Site Plan from:	Date:	Figure #:
Google	July, 2026	1

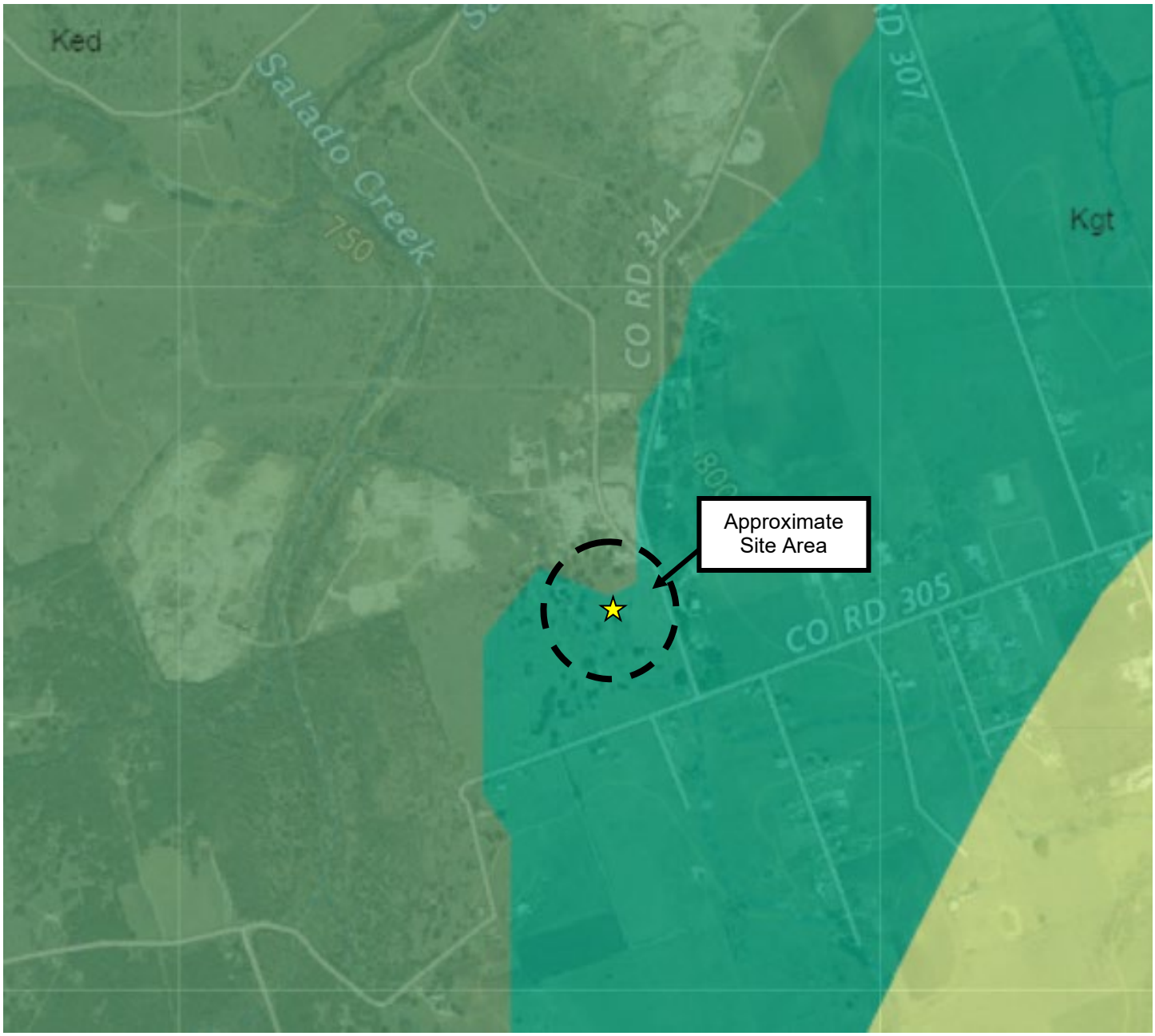


Approximate Locations of Borings

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM	Scale: NTS	Project #: AE26-0501
Site Plan from: Gray Engineering/Google	Date: July, 2026	Figure #: 2



Ked — The Edward Limestone formation

Kgt — The Georgetown formation

Geology Map

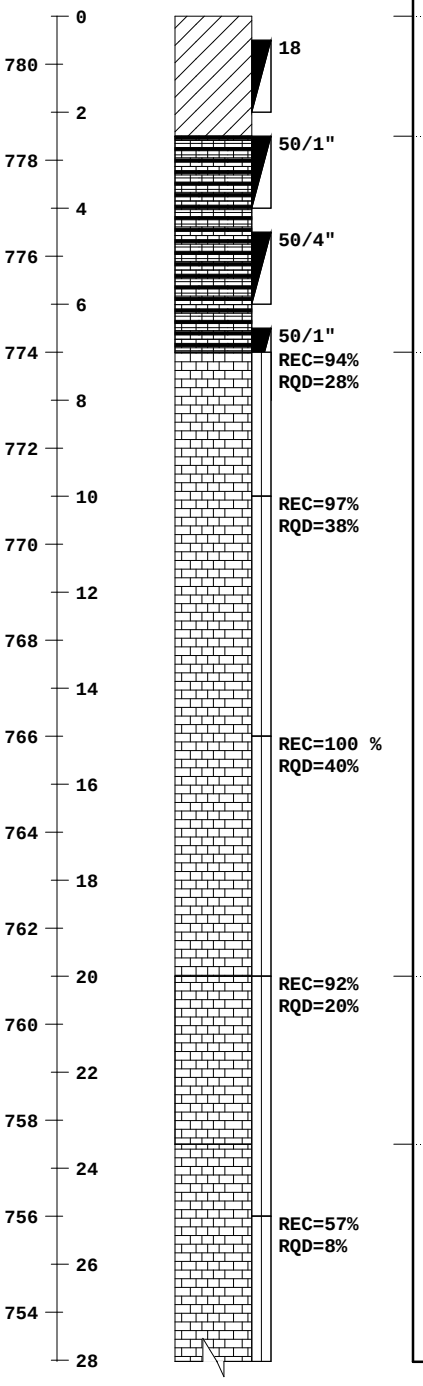
New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM	Scale: NTS	Project #: AE26-0501
Map By: U.T. Bureau of Econ. G.	Date: July, 2026	Figure #: 3

LOG OF BORING
B-1

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63393**
Drilled by: **Coretech**
Latitude: **30.83965**



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0	18	LEAN CLAY, damp, very stiff, light brown, with calcareous nodules (CL)	15	22	16	6	73			
2	50/1"	LEAN CLAY/ SEVERELY WEATHERED LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)	22							
4	50/4"		15				33			
6	50/1"									
8	REC=94% RQD=28%	LIMESTONE, dry, hard (rock basis), very pale brown, fractured (horizontal), with clay infill lenses (LS)	5					143.3		443.0
10	REC=97% RQD=38%									
12										
14	REC=100 % RQD=40%		4					146.0		408.5
16										
18										
20	REC=92% RQD=20%	VUGGY LIMESTONE, dry, very hard (rock basis), highly vuggy, fractured, with crystalline infills (LS)								
22										
24		LIMESTONE, dry, hard (rock basis), light brown (LS)								
26	REC=57% RQD=8%	- light brown and gray, with some vuggs and clay infills								
28										

Notes: Boring dry to 7'. Water added at 7' for rock coring operations.

Figure 4

LOG OF BORING
BORING B-1

Project: **New Elementary School No. 5 (Atlas Ranch)** Project No.: **AE26-0501**

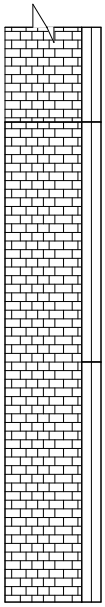
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
752 / 30	 REC=87% RQD=22%	VUGGY LIMESTONE, dry, very hard (rock basis), vuggy to highly vuggy, with crystalline infills (LS)								
750 / 32										
748 / 34										
746 / 36	REC=92% RQD=37%	- highly vuggy								
744 / 38										
742 / 40		Boring terminated at 40'								
740 / 42										
738 / 44										
736 / 46										
734 / 48										
732 / 50										
730 / 52										
728 / 54										
726 / 56										
724 / 58										
722 / 60										
720										

Figure 4

LOG OF BORING
B-2

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **786**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63279**
Drilled by: **Coretech**
Latitude: **30.83960**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
786 — 0	18	GRAVELLY LEAN CLAY, damp, very stiff, light brown (CLG) (FILL)	9				54			
784 — 2	50/5.5"	FAT CLAY, damp, hard, dark brown (CH)	22	80	31	49	84			
782 — 4	REC=33% RQD=0%	LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
	REC=60% RQD=0%	LIMESTONE, dry, very hard (rock basis), white to light brown, with abundant clay infill (LS)								
780 — 6		- white to very pale brown, highly fractured								
778 — 8										
776 — 10	REC=90% RQD=17%	- highly friable seams	0					163.3		545.8
774 — 12										
772 — 14										
	REC=100 % RQD=33%	LIMESTONE, dry, very hard (rock basis), light brown, highly fractured (LS)	2					152.9		578.9
770 — 16										
768 — 18										
766 — 20	REC=100 % RQD=33%									
764 — 22										
762 — 24		LIMESTONE, dry, hard (rock basis), light brown (LS)								
	REC=90% RQD=15%	- light brown and gray, with some vuggs and clay infills								
760 — 26										
758 — 28										

Notes: Boring dry to 7'. Water added at 7' for rock coring operations.

Figure 5

LOG OF BORING
BORING B-2

Project: **New Elementary School No. 5 (Atlas Ranch)** Project No.: **AE26-0501**

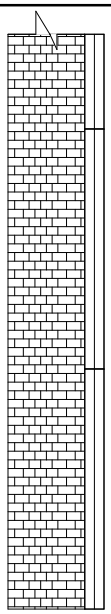
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
756 — 30	 REC=45% RQD=0%	- white, highly fractured								
754 — 32										
752 — 34										
	REC=45% RQD=0%	- with some vuggs								
750 — 36										
748 — 38										
746 — 40		Boring terminated at 40'								
744 — 42										
742 — 44										
740 — 46										
738 — 48										
736 — 50										
734 — 52										
732 — 54										
730 — 56										
728 — 58										
726 — 60										

Figure 5

LOG OF BORING
B-3

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63373**
Drilled by: **Coretech**
Latitude: **30.83945**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780	50/4.5"	LEAN CLAY, damp, hard, brown (CL) (FILL)	21				80			
2 / 778	50/1"	CRUSHED LIMESTONE, dry, medium dense, light brown, with lean clay (GS) (FILL)								
4 / 776	50/0.5"	LEAN CLAY, dry, hard, brown (CL)								
6 / 774		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
8 / 772		Boring terminated at 6'								
10 / 770										
12 / 768										
14 / 766										
16 / 764										
18 / 762										
20 / 760										
22 / 758										
24 / 756										
26 / 754										
28										

Notes: Boring dry at completion. Elevations estimated based on available topographic maps.

Figure 6

LOG OF BORING
B-4

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **784**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.633141**
Drilled by: **Coretech**
Latitude: **30.8394**

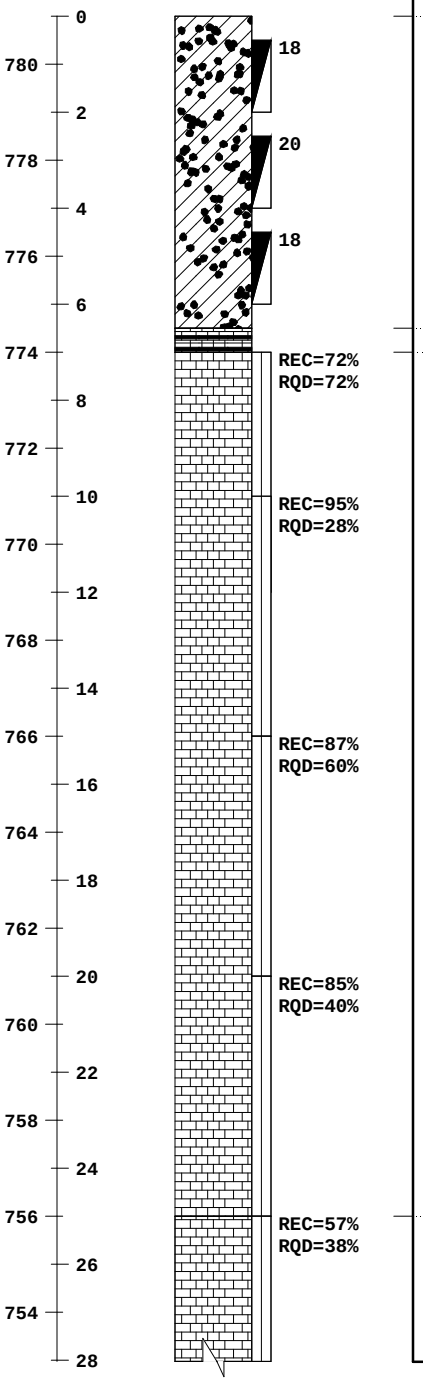
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
784 — 0	28	CRUSHED LIMESTONE, dry, dense, light brown to yellow (GS) (FILL)	12				52			
782 — 2	50/1"	FAT CLAY, dry, hard, dark brown (CH)								
780 — 4	50/0.5"	LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
778 — 6		Boring terminated at 6'								
776 — 8										
774 — 10										
772 — 12										
770 — 14										
768 — 16										
766 — 18										
764 — 20										
762 — 22										
760 — 24										
758 — 26										
756 — 28										

Notes: Boring dry at completion. Elevations estimated based on available topographic maps.

Figure 7

LOG OF BORING
B-5

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Drilled by: **Coretech**
Longitude: **-97.63365**
Latitude: **30.83920**



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
		LEAN CLAY, damp, very stiff, light brown, with gravel (CL) (FILL)	10				83			
			12				98			
			13				93			
		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)	15							
	REC=72% RQD=72%		1					153.4		394.0
		LIMESTONE, dry, hard (rock basis), light brown (LS)								
	REC=95% RQD=28%	- highly fractured	11					143.9		580.6
	REC=87% RQD=60%	- slightly fractured								
	REC=85% RQD=40%		5					143.8		155.6
	REC=57% RQD=38%	LIMESTONE, dry, hard (rock basis), light brown and gray, with some vuggs and clay infills (LS)								

Notes: Boring dry to 7'. Water added at 7' for rock coring operations.

Figure 8

LOG OF BORING
BORING B-5

Project: **New Elementary School No. 5 (Atlas Ranch)** Project No.: **AE26-0501**

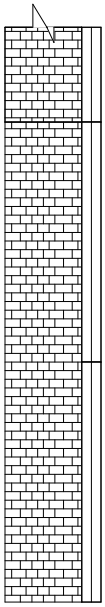
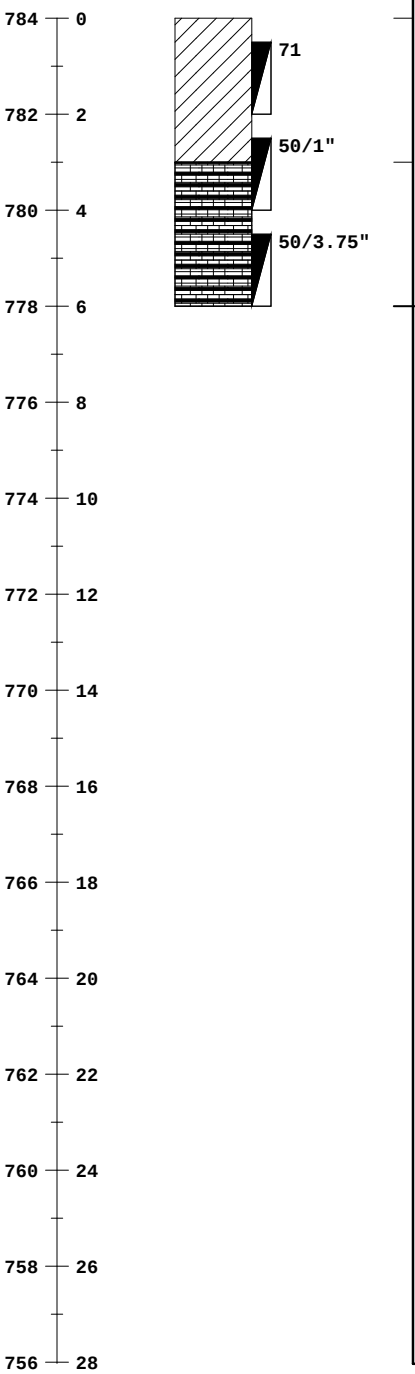
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
752 / 30	 REC=50% RQD=18%	VUGGY LIMESTONE, dry, hard, light brown, with dissolution cavities and crystalline infill (LS)								
750 / 32										
748 / 34										
746 / 36	REC=80% RQD=37%									
744 / 38										
742 / 40		Boring terminated at 40'								
740 / 42										
738 / 44										
736 / 46										
734 / 48										
732 / 50										
730 / 52										
728 / 54										
726 / 56										
724 / 58										
722 / 60										
720										

Figure 8

LOG OF BORING
B-6

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **-97.63311** Elev.: **784**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63373**
Drilled by: **Coretech**
Latitude: **30.83920**



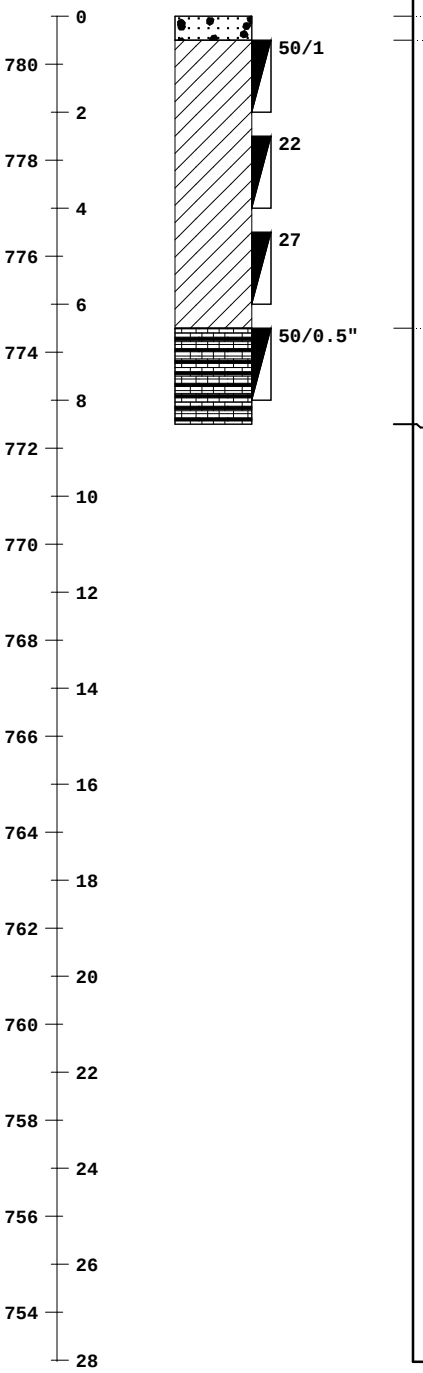
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
		LEAN CLAY, damp, very stiff, light brown, with gravel (CL)	11				87			
		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 6'								

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 9

LOG OF BORING
B-7

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **-97.63311** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63395**
Drilled by: **Coretech**
Latitude: **30.83911**



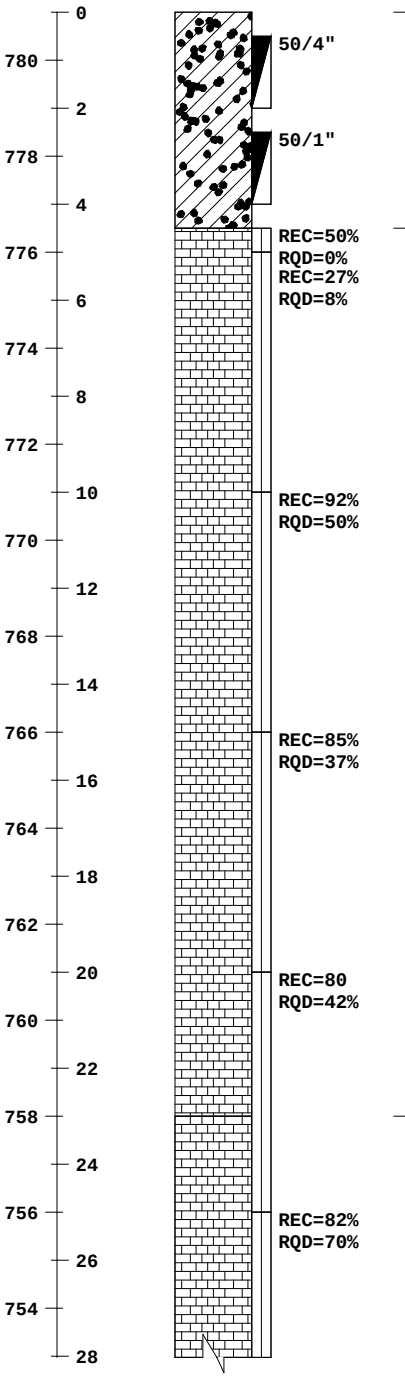
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0	50/1	CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)	15				88			
2	22	LEAN CLAY, damp, very stiff to hard, light brown (CL)	15				83			
4	27									
6	50/0.5"	LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
8		Boring terminated at 8.5'								

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 10

LOG OF BORING
B-8

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **5/29/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63365**
Drilled by: **Coretech**
Latitude: **30.83920**



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780	50/4"	LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)					44			
2 / 778	50/1"		11				75			
4 / 776	REC=50% RQD=0% REC=27% RQD=8%	LIMESTONE, dry, very hard (rock basis), light brown, fractured, with clay infill (LS)								
6 / 774										
8 / 772										
10 / 770	REC=92% RQD=50%	- highly fractured	1					146.6		494.9
12 / 768										
14 / 766	REC=85% RQD=37%		2					156.1		336.5
16 / 764										
18 / 762										
20 / 760	REC=80 RQD=42%		10					126.1		215.3
22 / 758										
24 / 756	REC=82% RQD=70%	LIMESTONE, dry, hard 9rock basis), light brown, fractured, with vuggy layers and seams (LS) - 1' void at 24'								
26 / 754										
28										

Notes: Boring dry to 7'. Water added at 7' for rock coring operations.

Figure 11

LOG OF BORING
BORING B-8

Project: **New Elementary School No. 5 (Atlas Ranch)** Project No.: **AE26-0501**

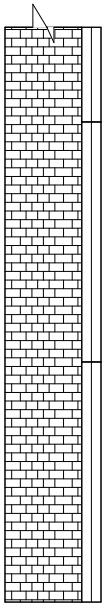
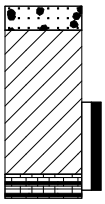
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
752 / 30	 REC=58% RQD=48%									
750 / 32										
748 / 34										
746 / 36	REC=37% RQD=5%	- with large clay infills and vuggy layers								
744 / 38										
742 / 40		Boring terminated at 40'								
740 / 42										
738 / 44										
736 / 46										
734 / 48										
732 / 50										
730 / 52										
728 / 54										
726 / 56										
724 / 58										
722 / 60										
720										

Figure 11

LOG OF BORING
P-9

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63398**
Drilled by: **404 Partners**
Latitude: **30.84007**

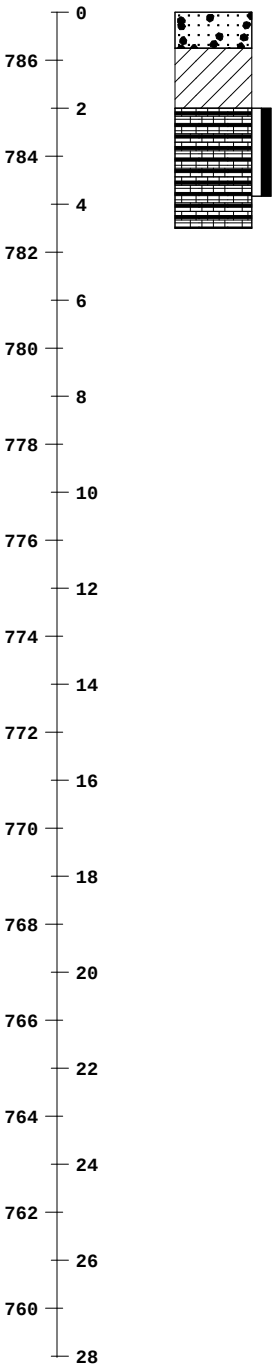
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780		CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
2 / 778		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
4 / 776		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
6 / 774		Boring terminated at 4'								
8 / 772										
10 / 770										
12 / 768										
14 / 766										
16 / 764										
18 / 762										
20 / 760										
22 / 758										
24 / 756										
26 / 754										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 12

LOG OF BORING
P-10

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **787**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63279**
Drilled by: **404 Partners**
Latitude: **30.84019**



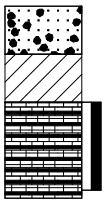
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
		CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 4.5'								

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 13

LOG OF BORING
P-11

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **787**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63265**
Drilled by: **404 Partners**
Latitude: **30.83979**

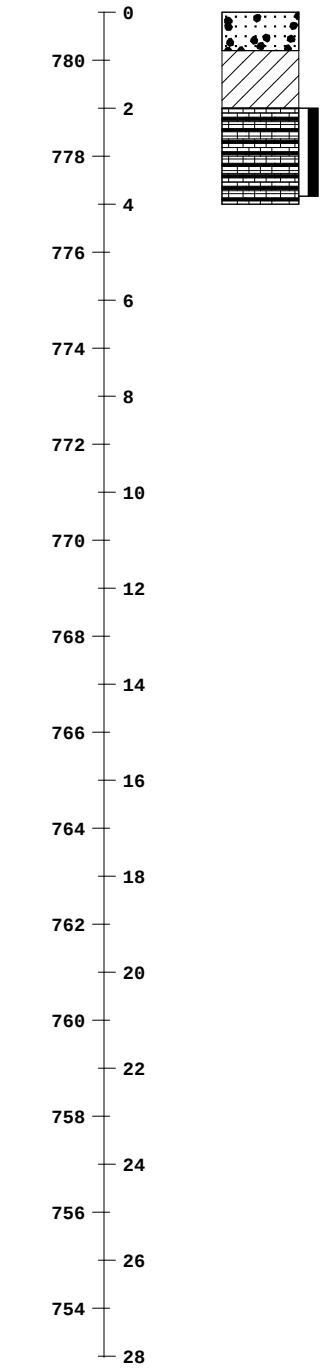
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 786		CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
2 / 784		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
4 / 782		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 4'								
6 / 780										
8 / 778										
10 / 776										
12 / 774										
14 / 772										
16 / 770										
18 / 768										
20 / 766										
22 / 764										
24 / 762										
26 / 760										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 14

LOG OF BORING
P-12

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63412**
Drilled by: **404 Partners**
Latitude: **30.83937**



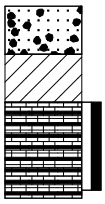
DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
LEAN CLAY, damp, very stiff to hard, light brown (CL)								
LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
Boring terminated at 4'								

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 15

LOG OF BORING
P-13

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **787**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63237**
Drilled by: **404 Partners**
Latitude: **30.839332**

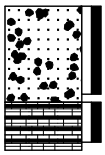
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 786		CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
2 / 784		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
4 / 782		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 4'								
6 / 780										
8 / 778										
10 / 776										
12 / 774										
14 / 772										
16 / 770										
18 / 768										
20 / 766										
22 / 764										
24 / 762										
26 / 760										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 16

LOG OF BORING
P-14

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.634297**
Drilled by: **404 Partners**
Latitude: **30.83901**

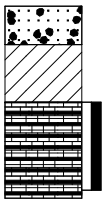
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780		SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/ soft (rock basis), light brown (CL/SWLS)								
2 / 778		Boring terminated at 3'								
4 / 776										
6 / 774										
8 / 772										
10 / 770										
12 / 768										
14 / 766										
16 / 764										
18 / 762										
20 / 760										
22 / 758										
24 / 756										
26 / 754										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 17

LOG OF BORING
P-15

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **787**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63203**
Drilled by: **404 Partners**
Latitude: **30.83900**

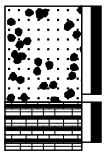
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 786		CRUSHED LIMESTONE, dry, medium dense, yellow (GS) (FILL)								
2 / 784		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
4 / 782		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 4'								
6 / 780										
8 / 778										
10 / 776										
12 / 774										
14 / 772										
16 / 770										
18 / 768										
20 / 766										
22 / 764										
24 / 762										
26 / 760										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 18

LOG OF BORING
P-16

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63408**
Drilled by: **404 Partners**
Latitude: **30.83849**

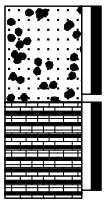
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780		SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/ soft (rock basis), light brown (CL/SWLS)								
2 / 778		Boring terminated at 3'								
4 / 776										
6 / 774										
8 / 772										
10 / 770										
12 / 768										
14 / 766										
16 / 764										
18 / 762										
20 / 760										
22 / 758										
24 / 756										
26 / 754										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 19

LOG OF BORING
P-17

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **781**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63364**
Drilled by: **404 Partners**
Latitude: **30.8384**

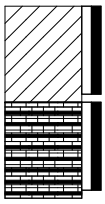
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
0 / 780		SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/ soft (rock basis), light brown (CL/SWLS)								
2 / 778										
4 / 776		Boring terminated at 4'								
6 / 774										
8 / 772										
10 / 770										
12 / 768										
14 / 766										
16 / 764										
18 / 762										
20 / 760										
22 / 758										
24 / 756										
26 / 754										
28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 20

LOG OF BORING
P-18

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **784**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63315**
Drilled by: **404 Partners**
Latitude: **30.83844**

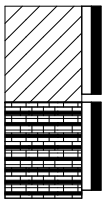
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
784 — 0		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
782 — 2		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
780 — 4		Boring terminated at 4'								
778 — 6										
776 — 8										
774 — 10										
772 — 12										
770 — 14										
768 — 16										
766 — 18										
764 — 20										
762 — 22										
760 — 24										
758 — 26										
756 — 28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 21

LOG OF BORING
P-19

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **784**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63287**
Drilled by: **404 Partners**
Latitude: **30.83860**

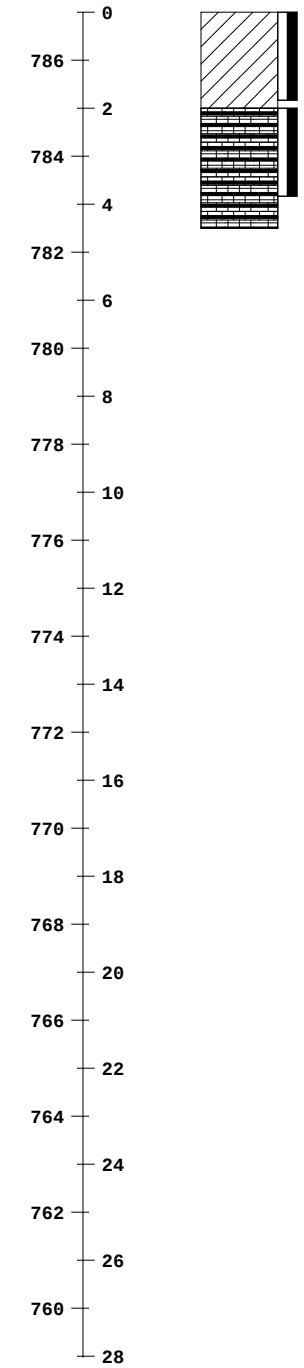
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
784 — 0		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
782 — 2		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
780 — 4		Boring terminated at 4'								
778 — 6										
776 — 8										
774 — 10										
772 — 12										
770 — 14										
768 — 16										
766 — 18										
764 — 20										
762 — 22										
760 — 24										
758 — 26										
756 — 28										

Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 22

LOG OF BORING
P-20

Project: **New Elementary School No. 5 (Atlas Ranch)**
Project #: **AE26-0501**
Date: **7/25/2026** Elev.: **787**
Location: **Jarrell, Texas**
Groundwater Observations: **N/A**
Logged by: **In field by driller, final log by J.M.**
Longitude: **-97.63224**
Drilled by: **404 Partners**
Latitude: **30.83843**



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	D.D. pcf	P.PEN tsf	UNCON. ksf
		LEAN CLAY, damp, very stiff to hard, light brown (CL)								
		LEAN CLAY/ SEVERELY WEATHERERD LIMESTONE, moist, hard (soil basis)/soft (rock basis), light brown (CL/SWLS)								
		Boring terminated at 4.5'								

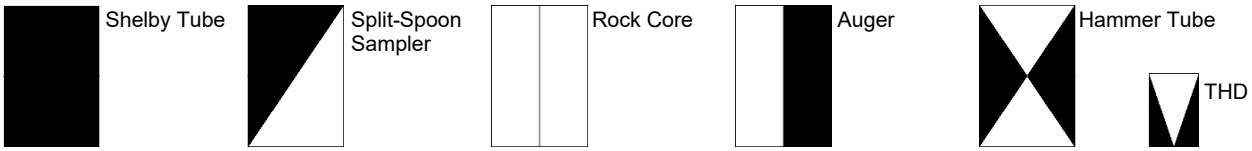
Notes: Boring dry upon completion. Elevations estimated based on available topographic maps.

Figure 23

STANDARD REFERENCE NOTES FOR BORING LOG

ALLIANCE ENGINEERING GROUP, INC.

I. Sampling & Testing Symbols:



II. Correlations of Penetration Resistance to Soil properties:

Relative Density of Sand and Sandy Silt		Consistency of Clay and Clayey Silt		
Relative Density	SPT N-Value	Consistency	SPT N-Value (Qualitive Measure)	Unconfined Compressive Strength (tsf)
Very Loose	0 to 4	Very Soft	0 to 3	Under 0.25
Loose	5 to 10	Soft	4 or 5	0.25 to 0.5
Medium Dense	11 to 30	Medium Stiff	6 to 10	0.5 to 1.0
Dense	31 to 50	Stiff	11 to 15	1.0 to 2.0
Very Dense	>50	Very Stiff	16 to 30	2.0 to 4.0
		Hard	>30	4.0 to 8.0

III. Unified Soil Classification Symbols:

GP – Poorly Graded Gravel
GW – Well Graded Gravel
GM – Silty Gravel
GC – Clayey Gravel
OH – High Plasiticity Organics

SP – Poorly Graded Sand
SW – Well Graded Sand
SM – Silty Sand
SC – Clayey Sand
OL – Low Plasticity Organics

ML – Low Plasticity Silt
MH – High Plasticity Silt
CL – Low to Medium Plasticity Clay
CH – High Plasticity Clay

IV. Rock Quality Designation Index (RQD):

RQD:	Description of Rock Quality: (if all natural fractures)
0% to 25%	Very Poor
25% to 50%	Poor
50% to 75%	Fair
75% to 90%	Good
90% to 100%	Excellent

V. Natural Moisture Content:
"Dry" No apparent moisture, crumbles easily
"Moist" Damp, but no visible water
"Wet" Visible Water

VI. Grain Size Terminology:
Cobble: 3-inches to 12-inches
Gravel: #4 sieve size (4.75 mm) to 3-inches
Coarse Sand: #10 to #4 sieve size
Medium Sand: #40 to #10 sieve size
Fine Sand: #200 to #40 seive size
Silt or Clay: smaller than #200 seive size

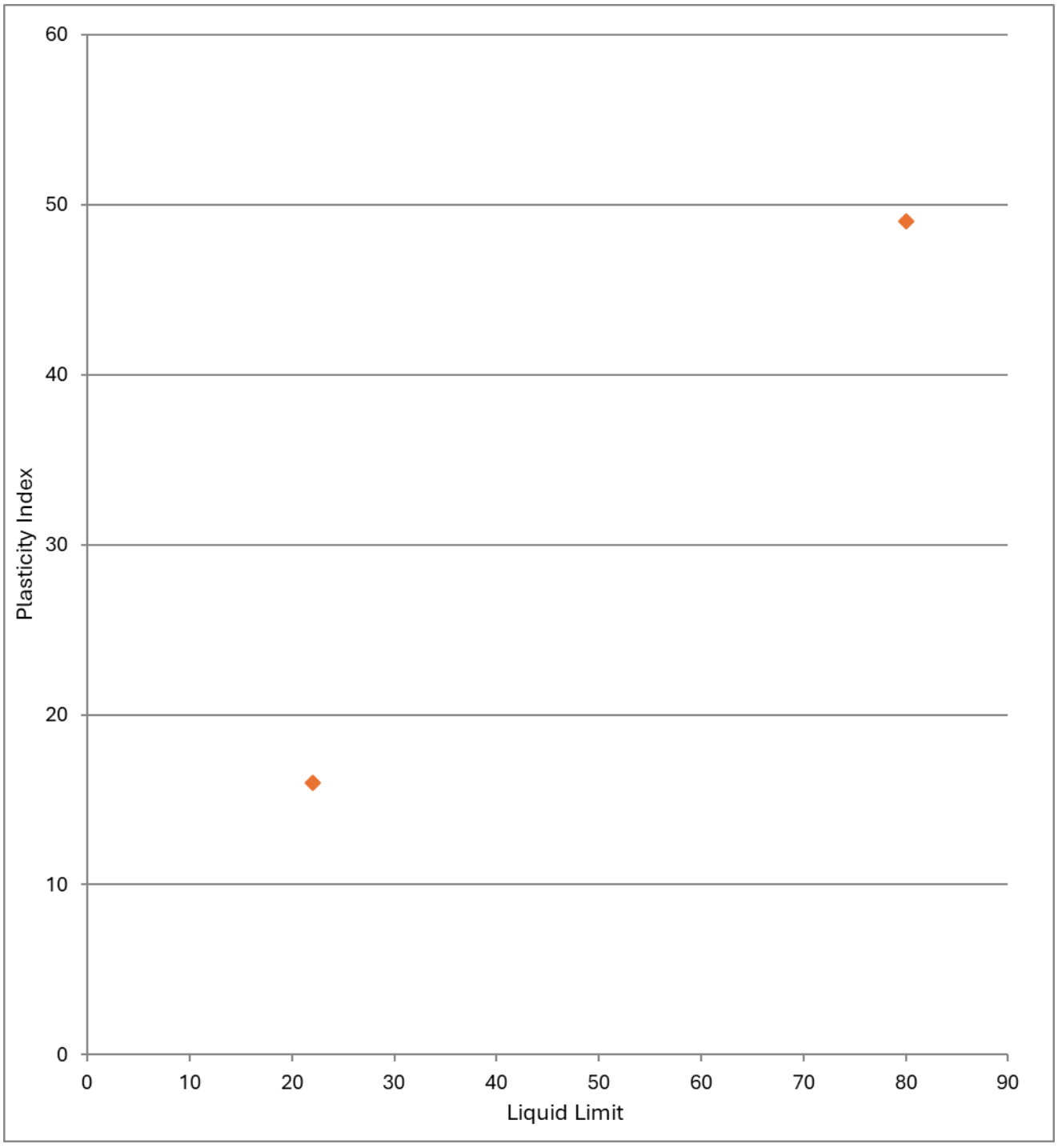
VII. Discriptive Terms for Soil Composition:
"trace" ……1% to 9%
"some"……10% to 29%
with Suffix "–y" (e.g. sandy, clayey)……30% to 49%

VIII. Descriptive Terms or Symbols:
"Mottled": occasional/spotted presence of that color
"-[…]": identifies change in soil characteristics
LL: Liquid Limit (moisture content as % of dry weight)
PL: Plastic Limit (moisture content as % of dry weight)
WOH: Weight of Hammer
"with […]": item identified withing that sample only

IX: Plasticity of Cohesive Soil:
(function of PI and Clay Mineral Types)

Plasticity Index (PI):	Plasticity:
0 to 20	Low
20 to 30	Medium
30+	High

200 Mustang Cove; Taylor, Texas 76574 * Phone (512) 281-4688 * Fax: (512) 281-4191

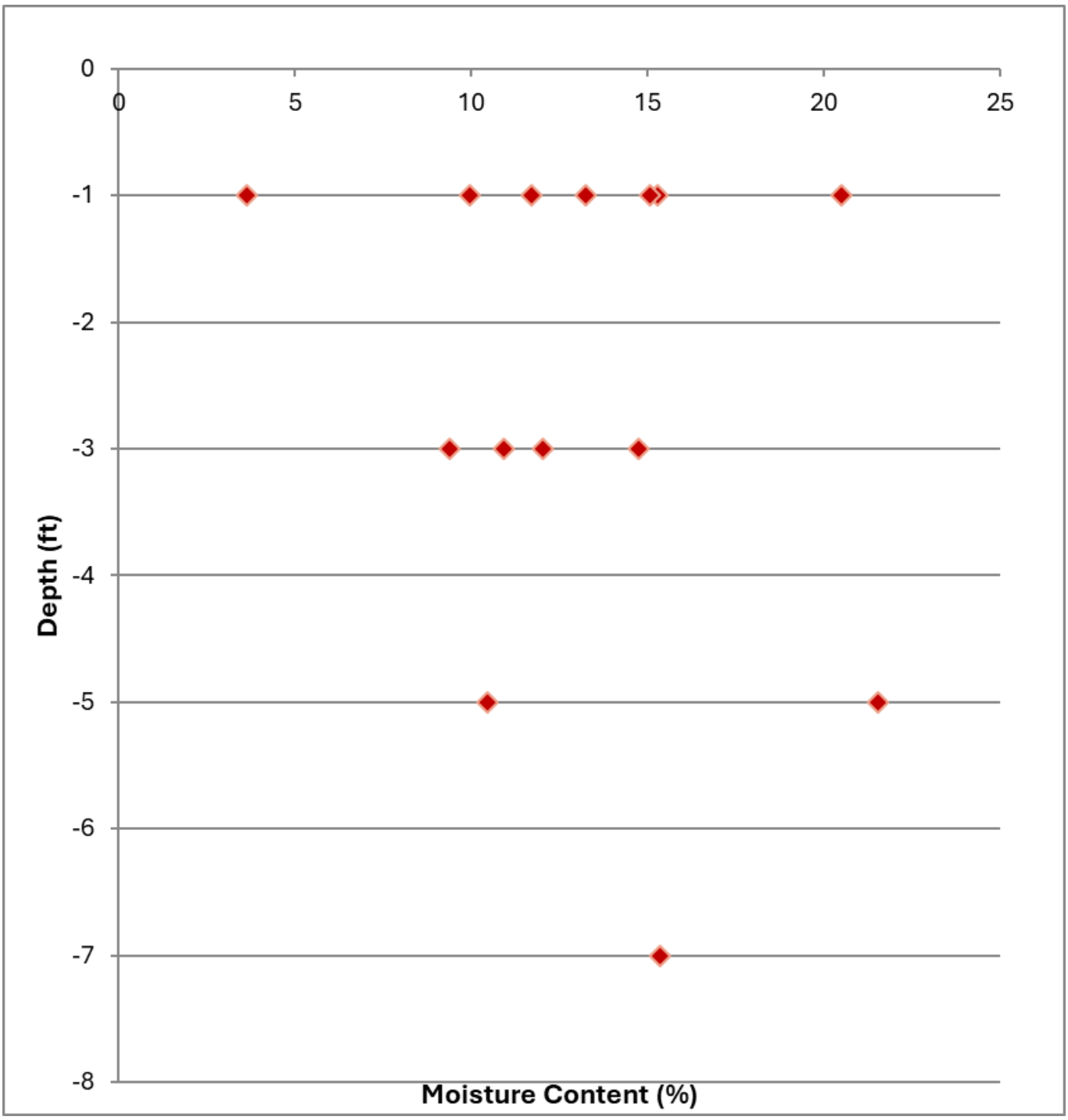


Atterberg Limit Chart

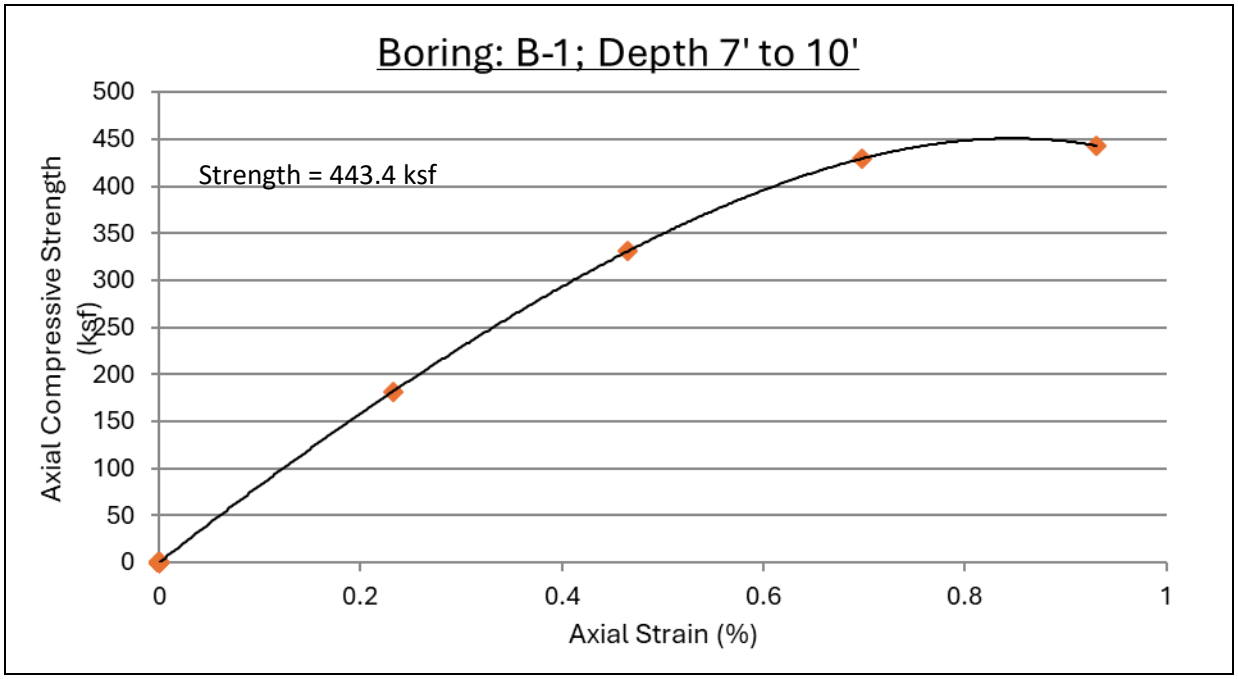
New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

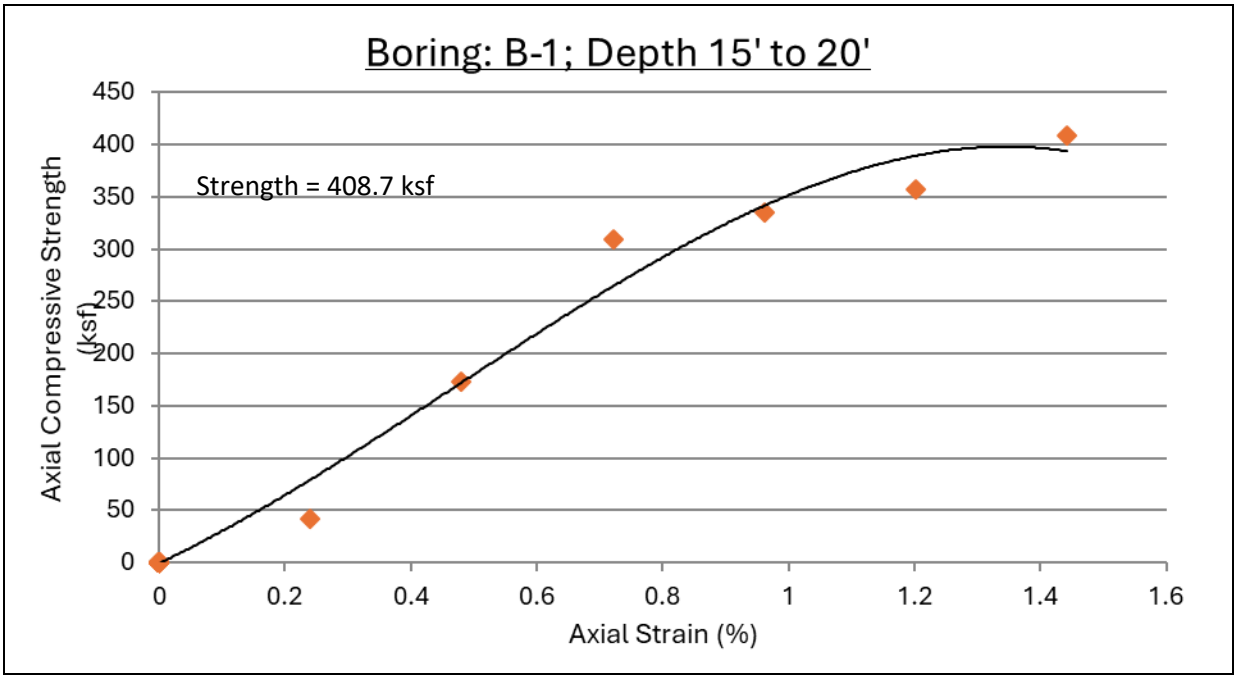
ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-4318	Date: July, 2026	Figure #: 25



Moisture Content Chart **New Elementary School No. 5** **Atlas Ranch** **Jarrell, Texas**	ALLIANCE ENGINEERING GROUP, INC.		
	Prepared By: JAM		Project #: AE26-0501
	Test Method: ASTM D-2216	Date: July, 2026	Figure #: 26



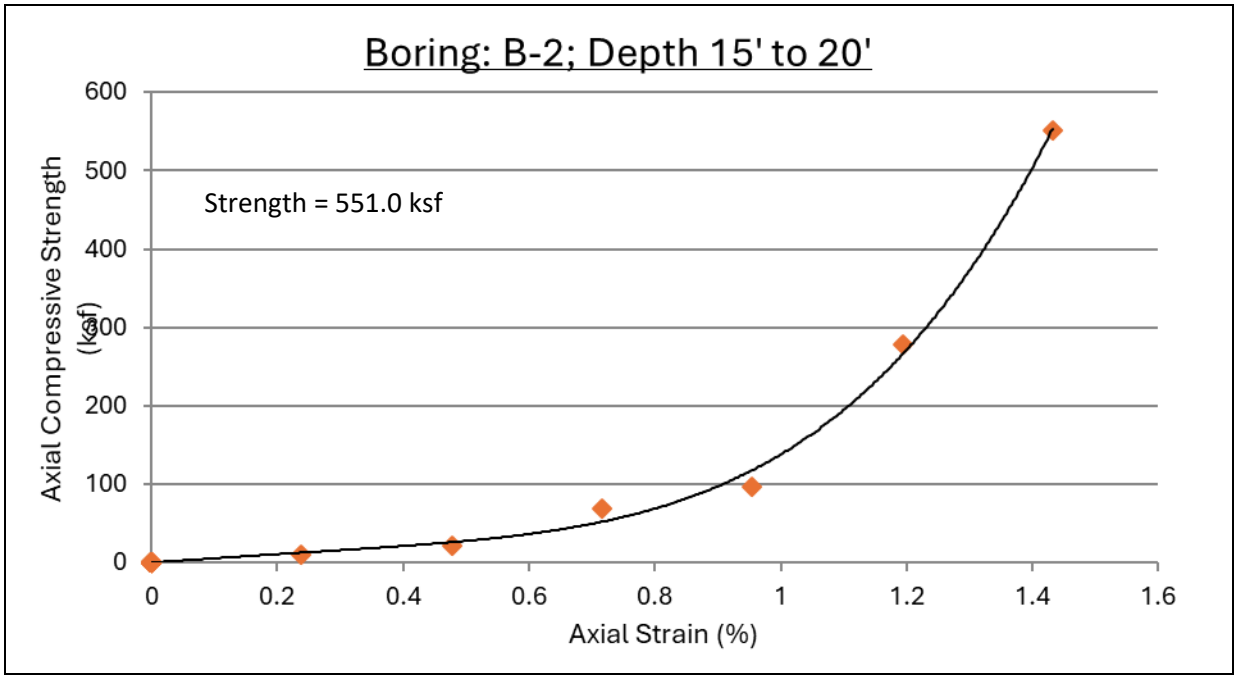


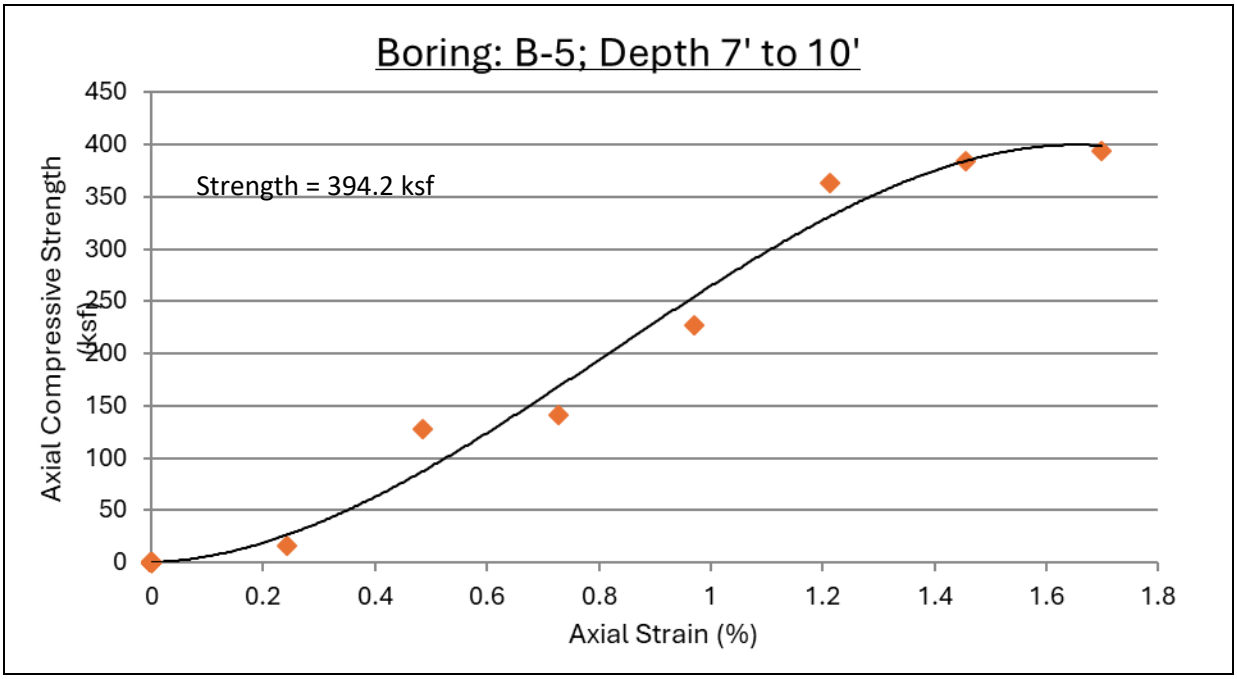
Unconfined Compressive Strength Test

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-2166/7012	Date: July, 2026	Figure #: 27



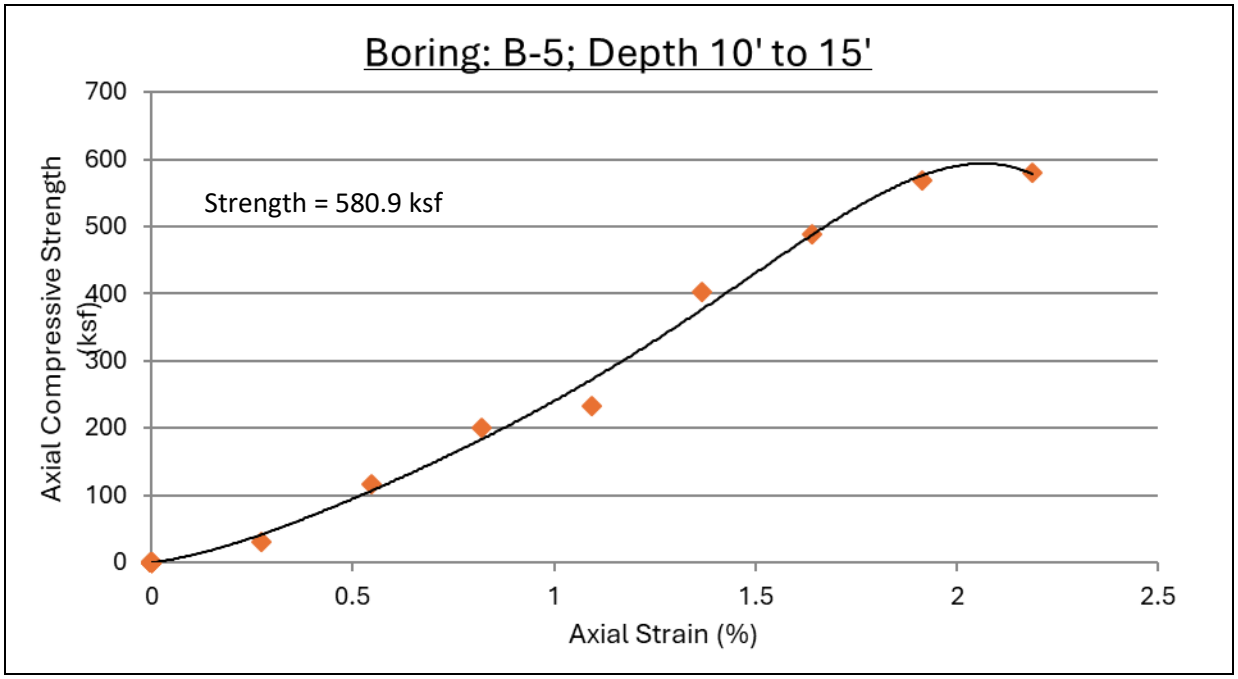


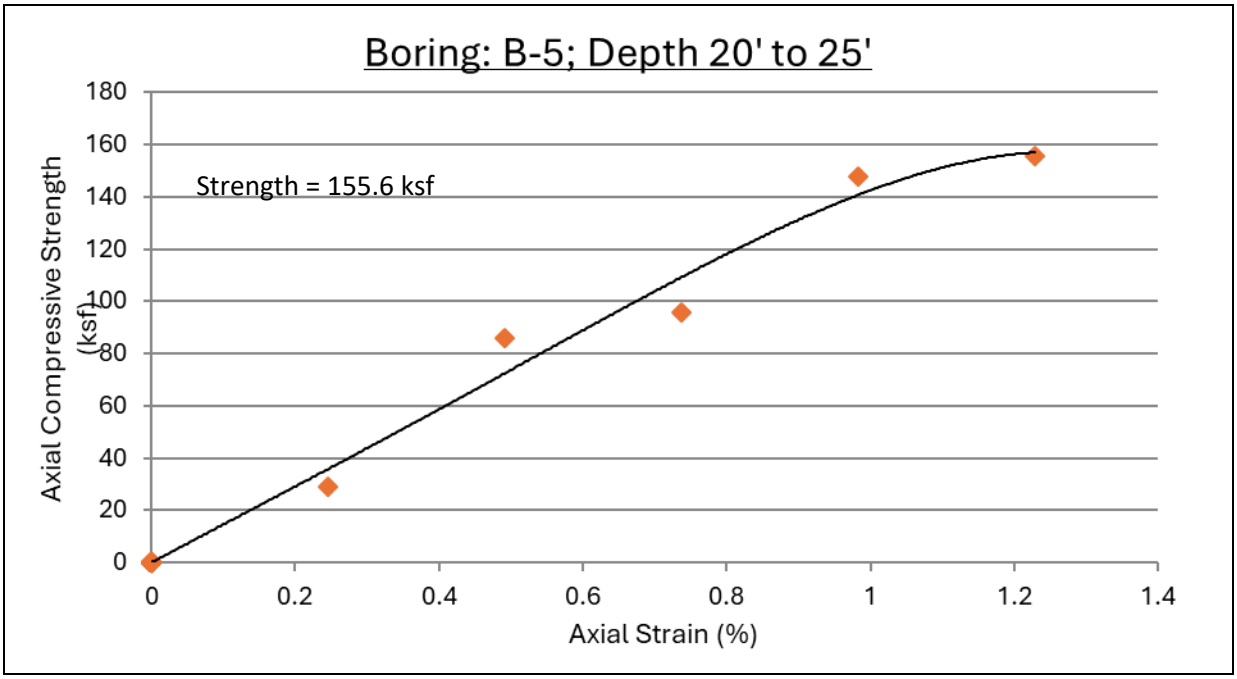
Unconfined Compressive Strength Test

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-2166/7012	Date: July, 2026	Figure #: 28



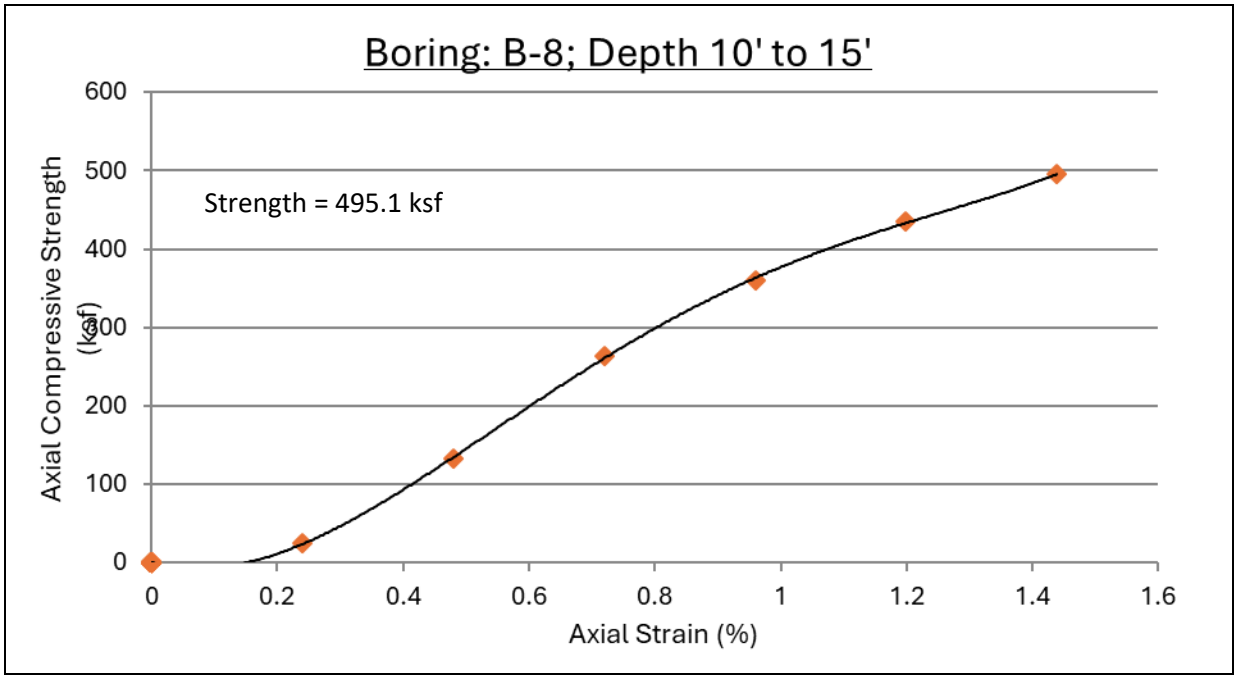


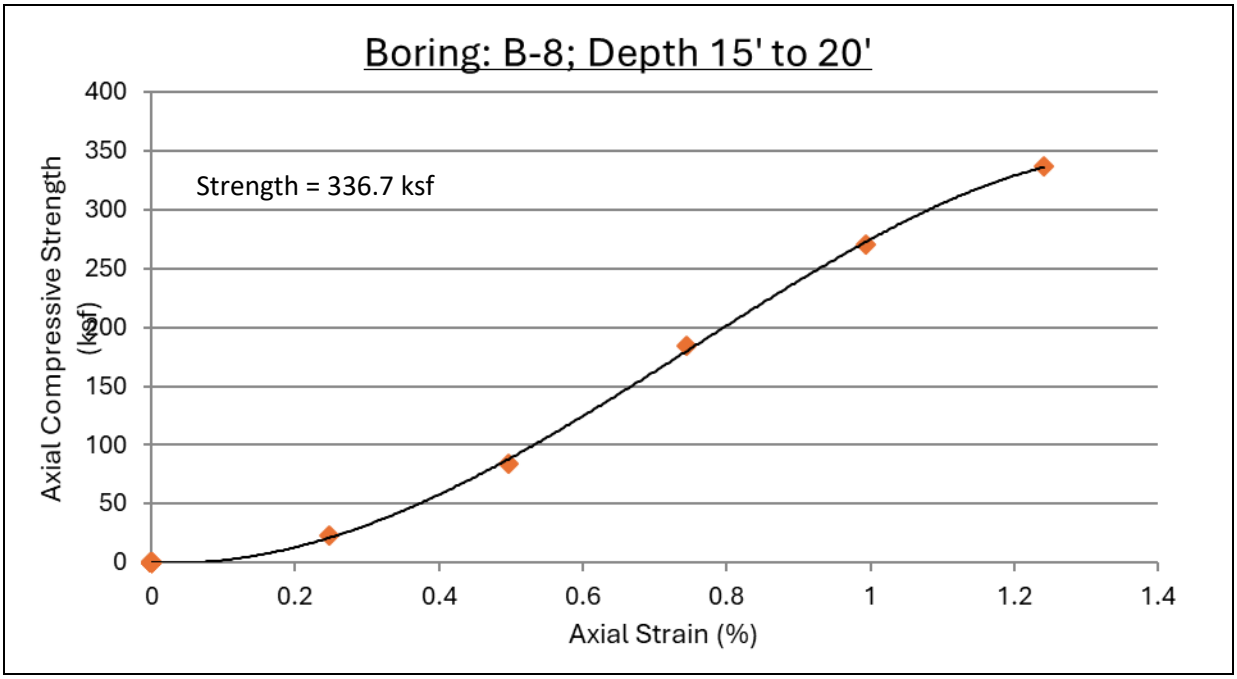
Unconfined Compressive Strength Test

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-2166/7012	Date: July, 2026	Figure #: 29



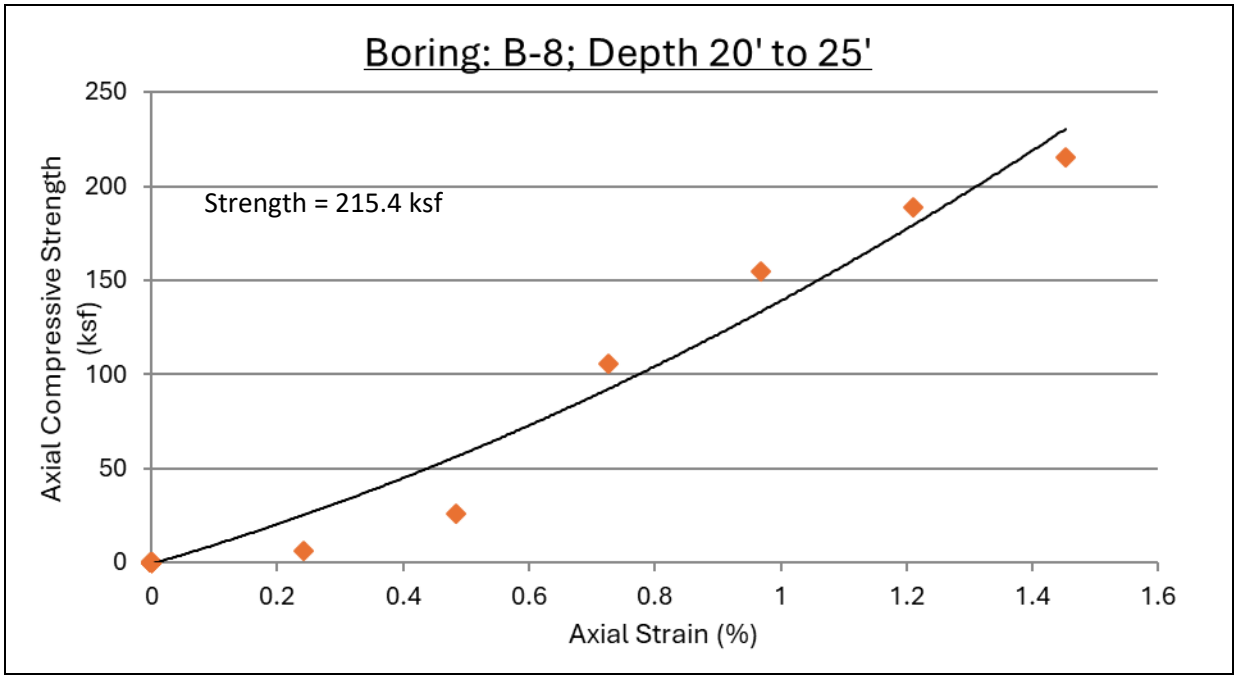


Unconfined Compressive Strength Test

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-2166/7012	Date: July, 2026	Figure #: 30



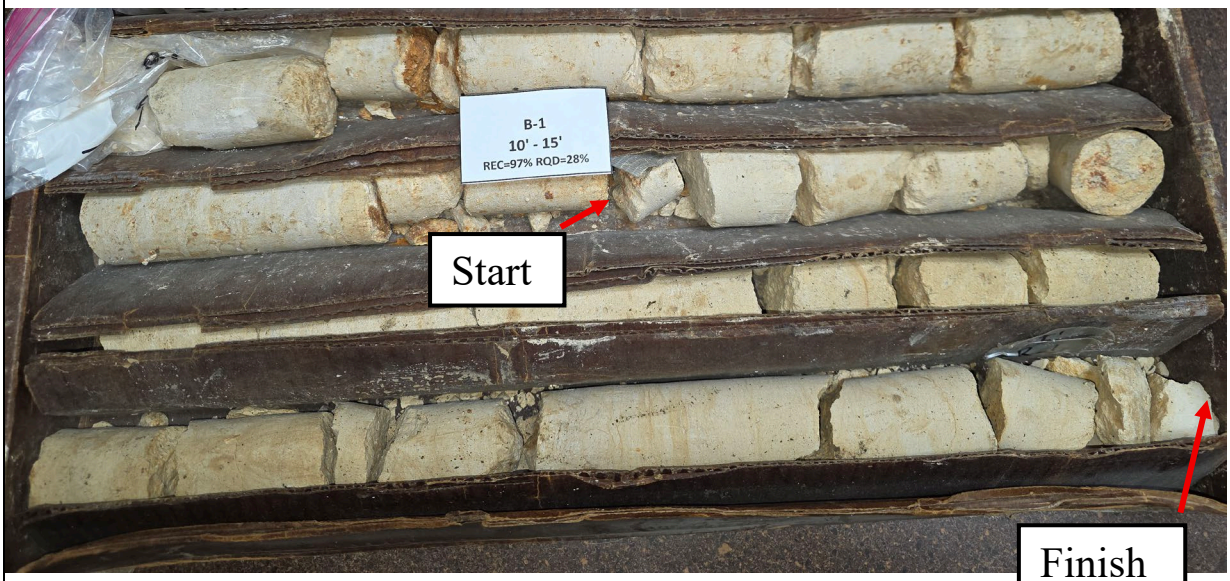
Unconfined Compressive Strength Test

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: ASTM D-2166/7012	Date: July, 2026	Figure #: 31



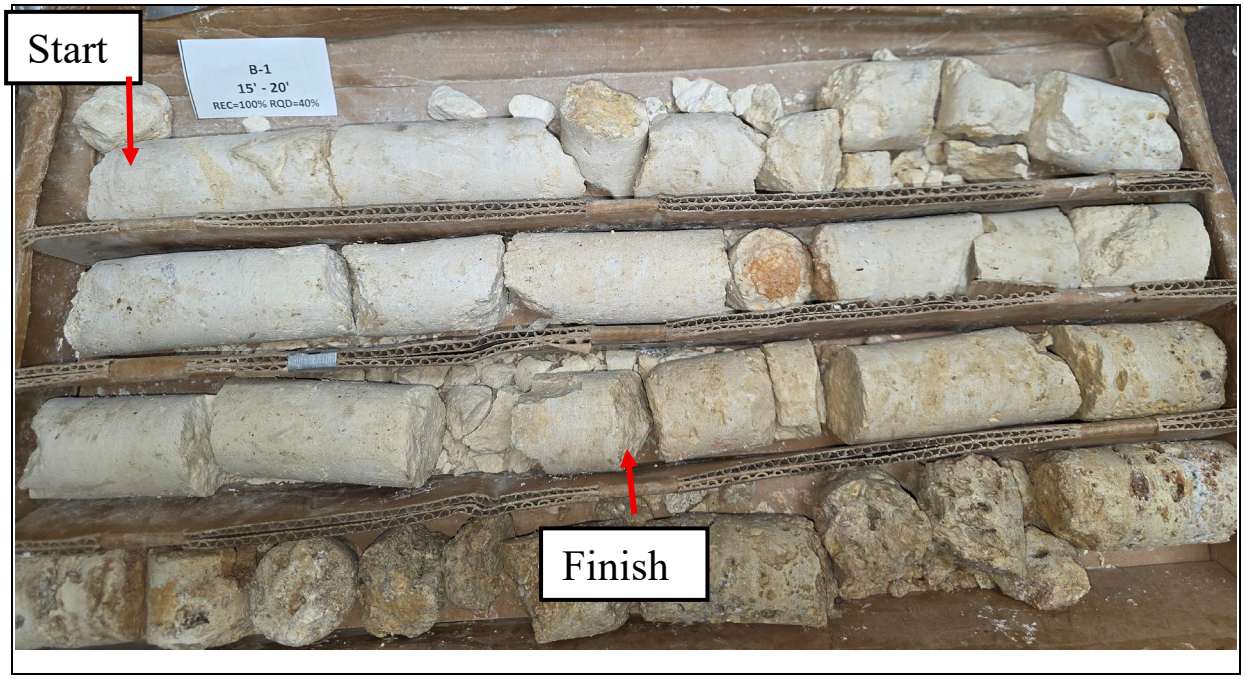


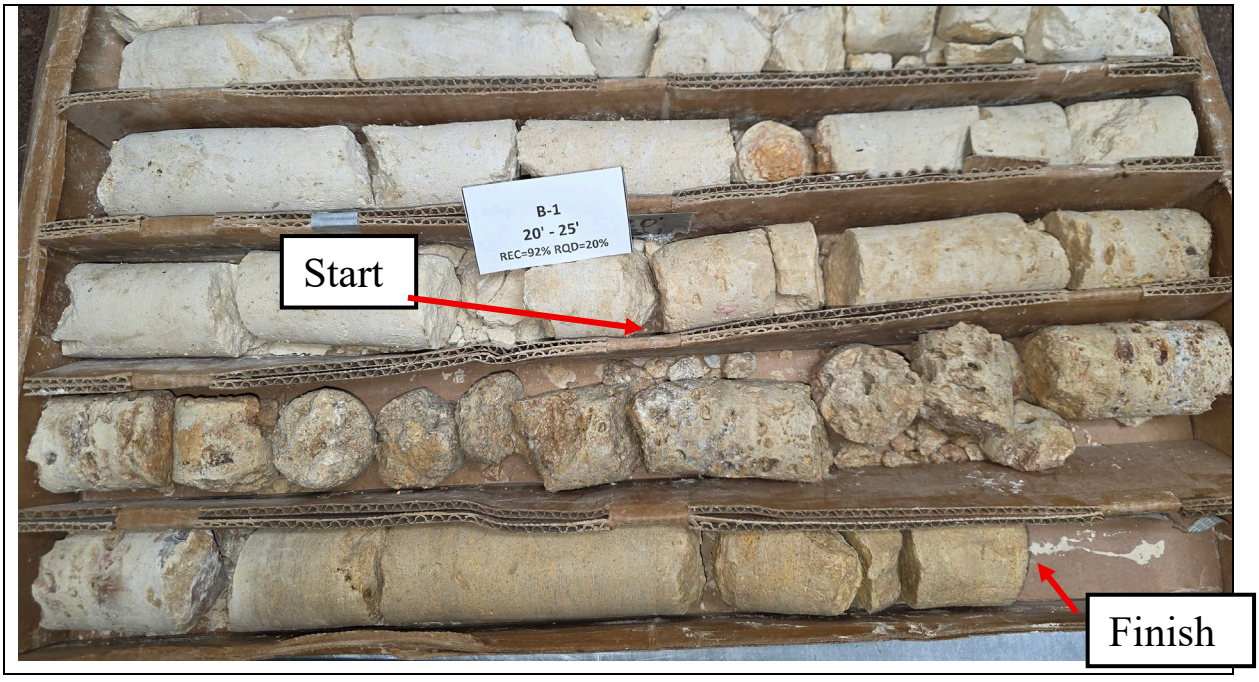
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 32



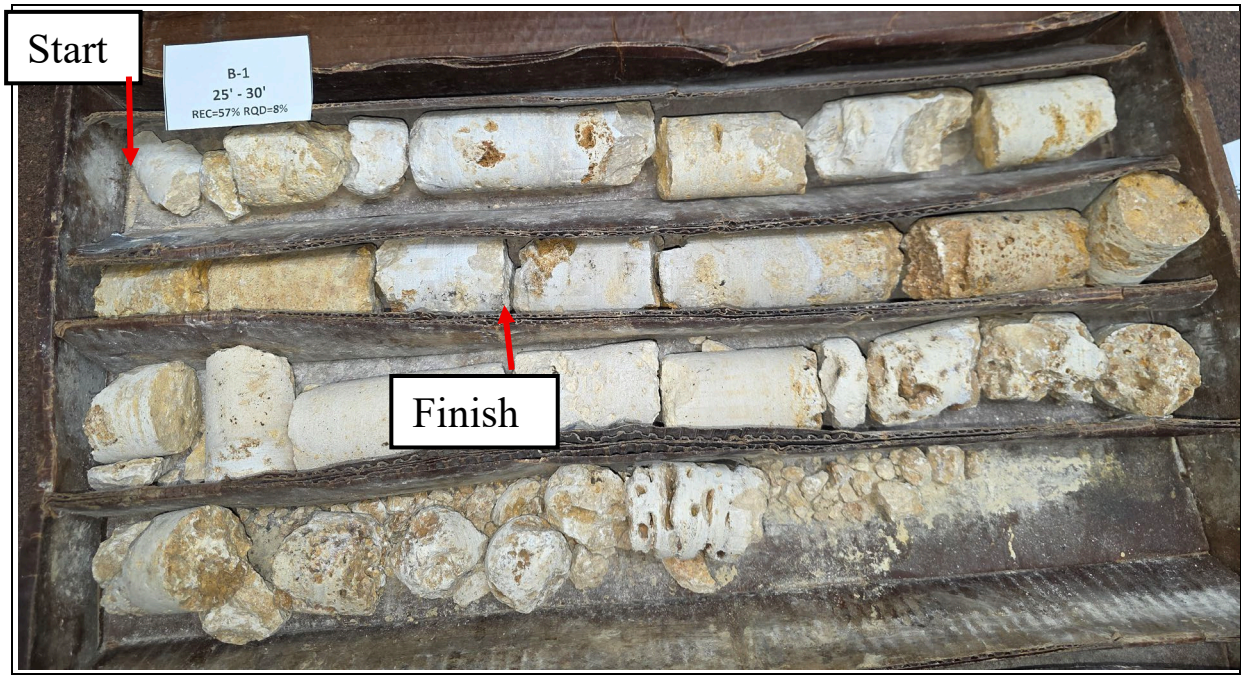


Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 33





Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 34





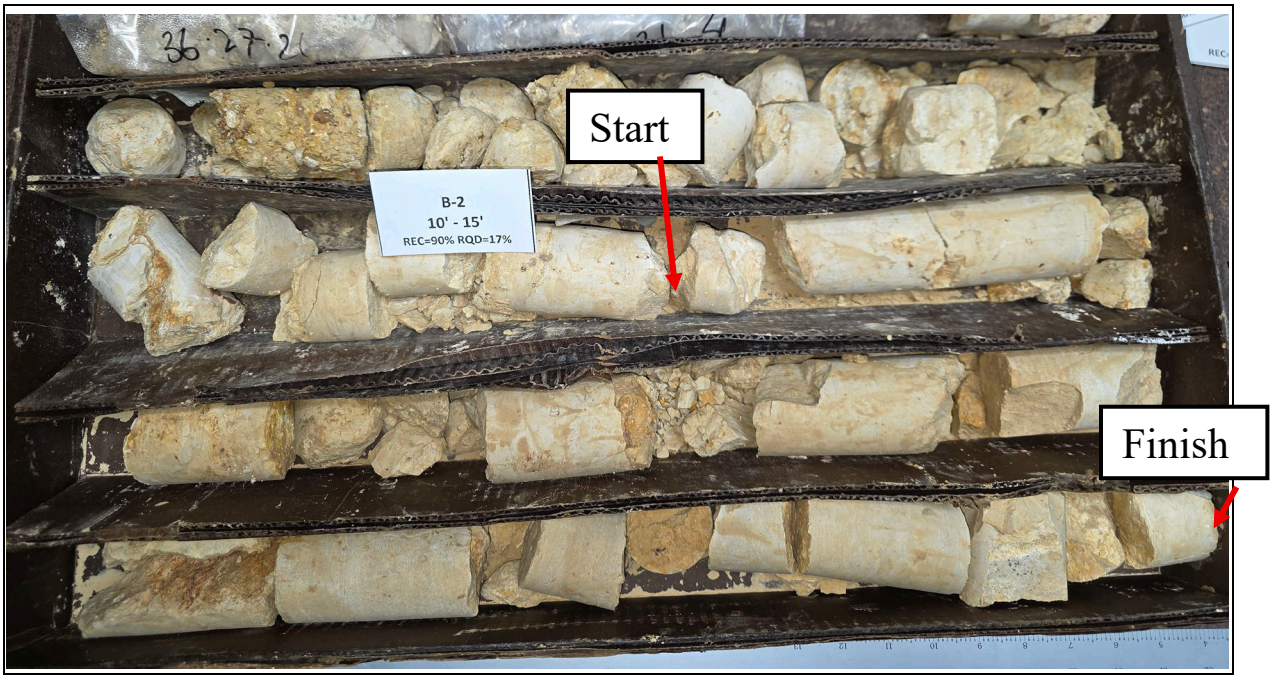
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 35



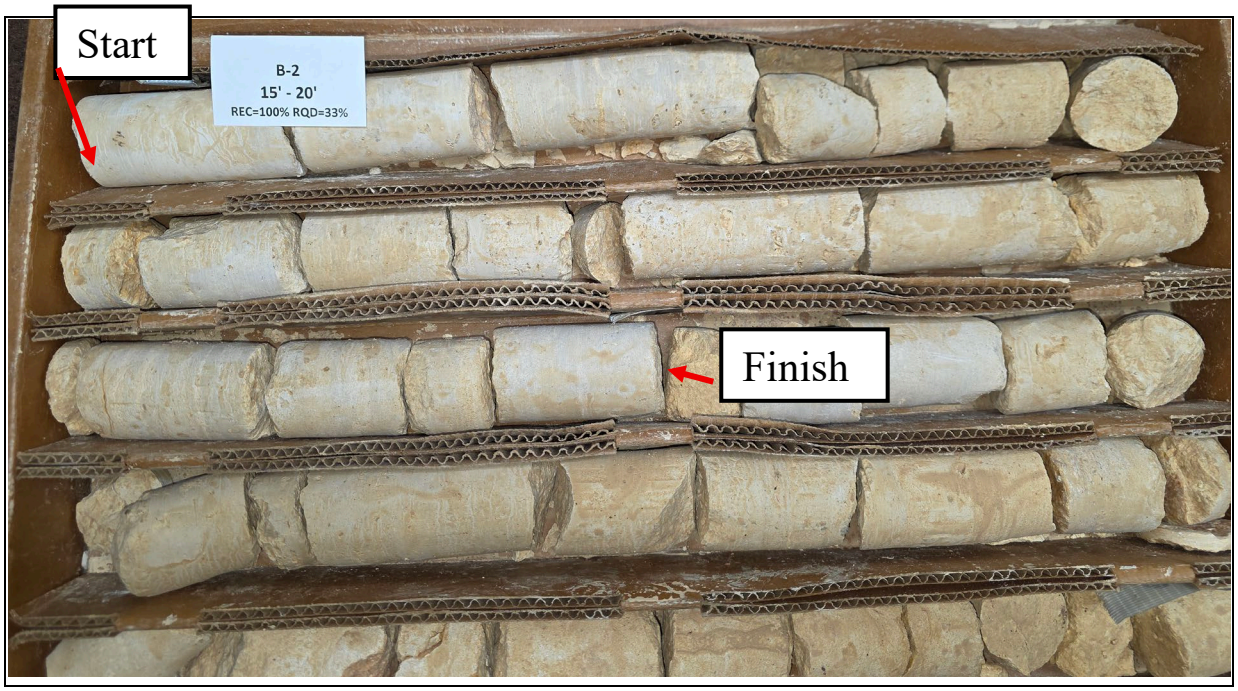


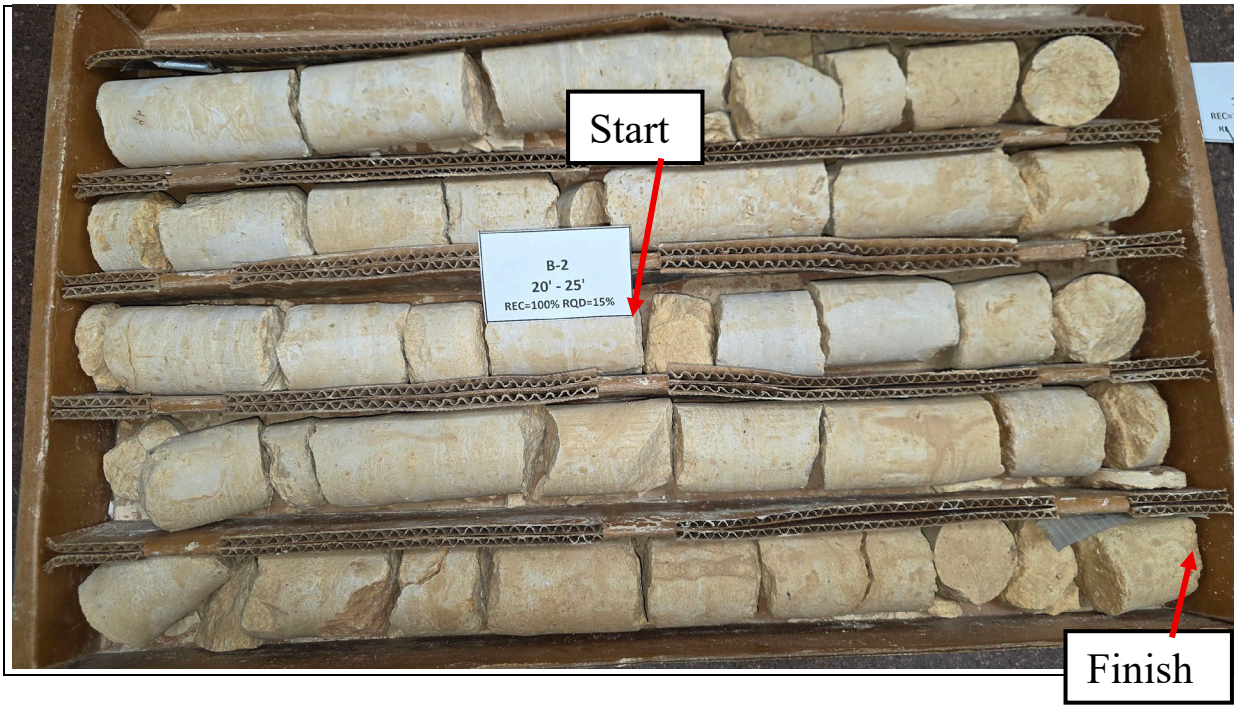
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 36



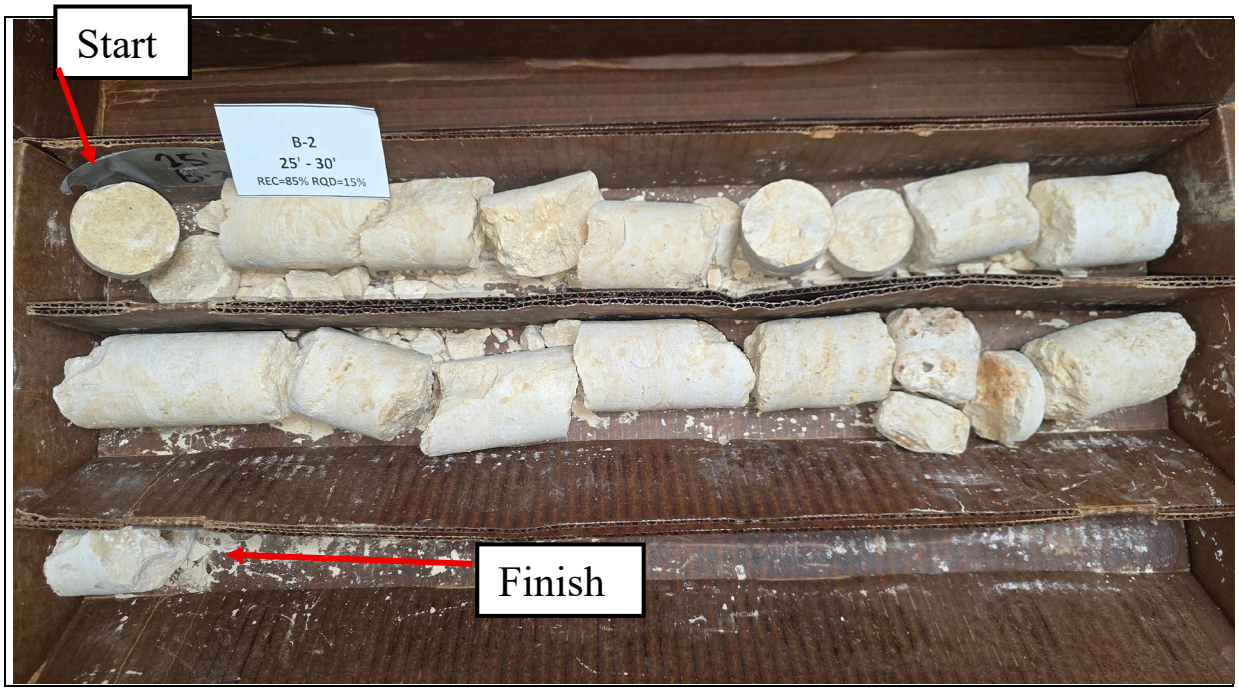


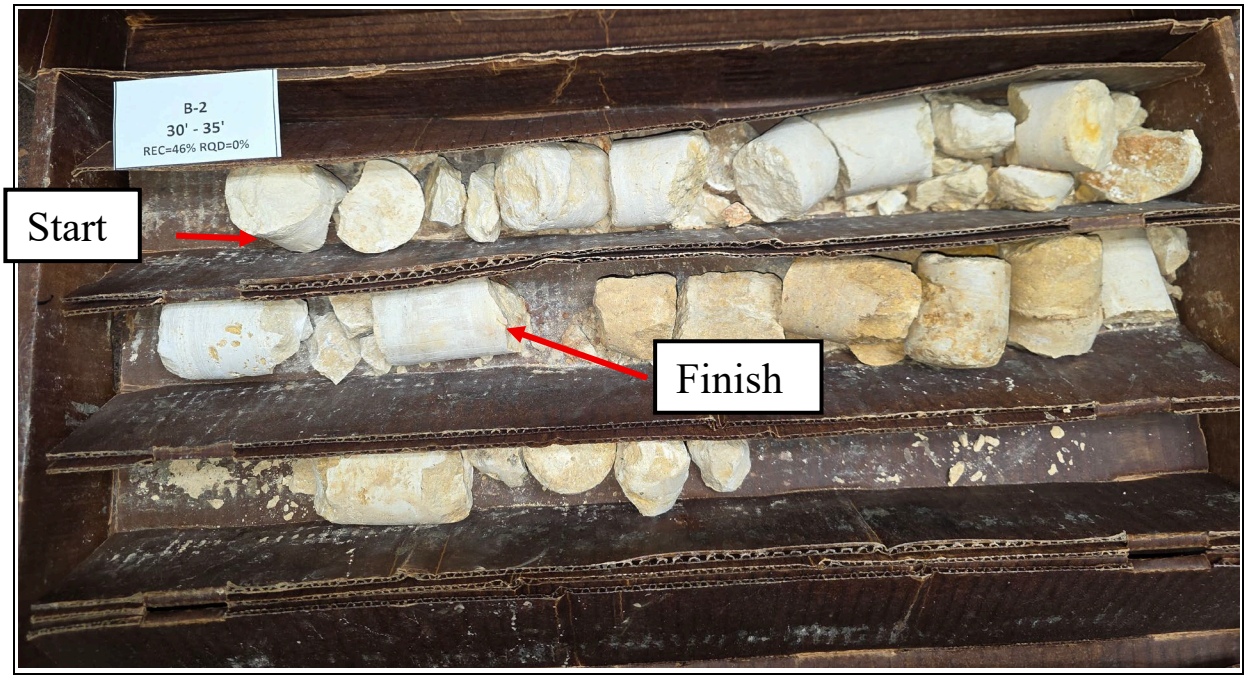
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 37



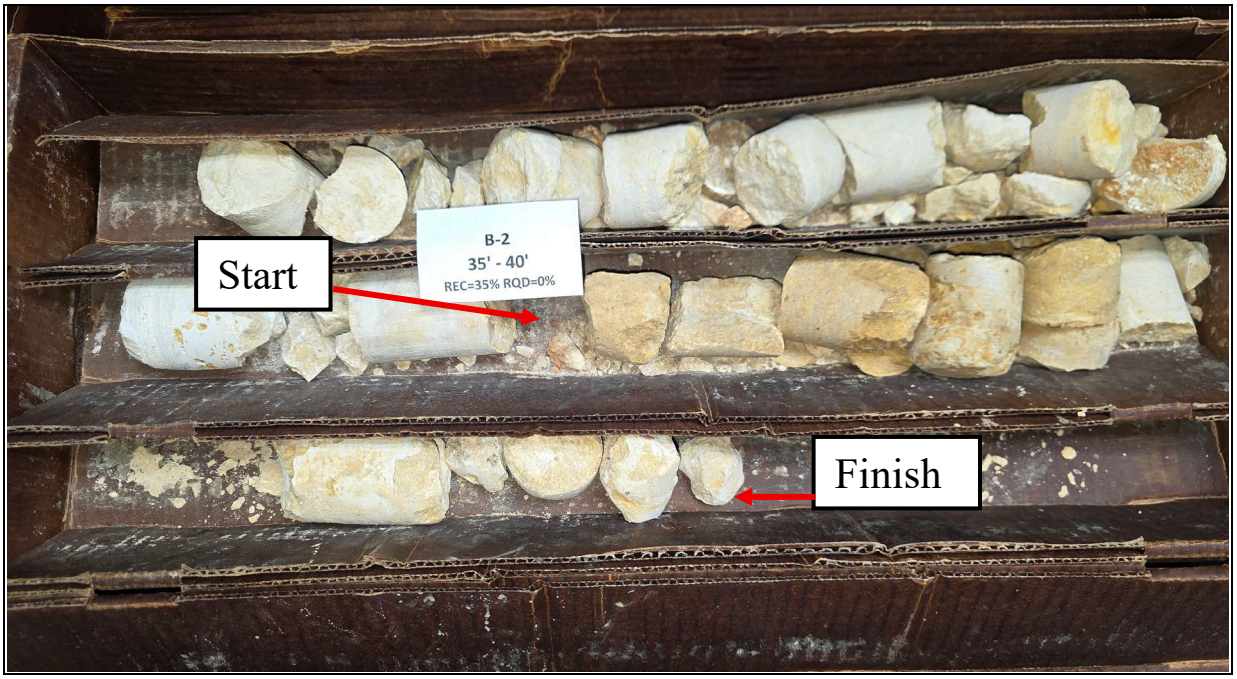


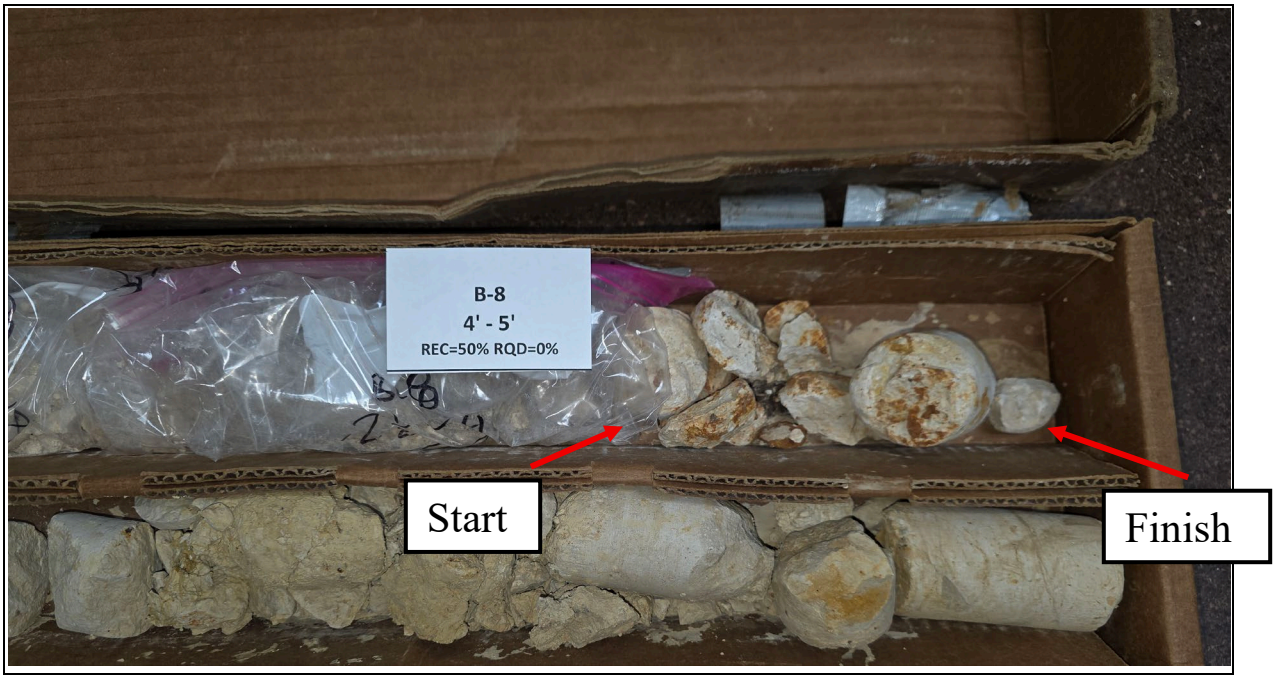
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 38





Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 39



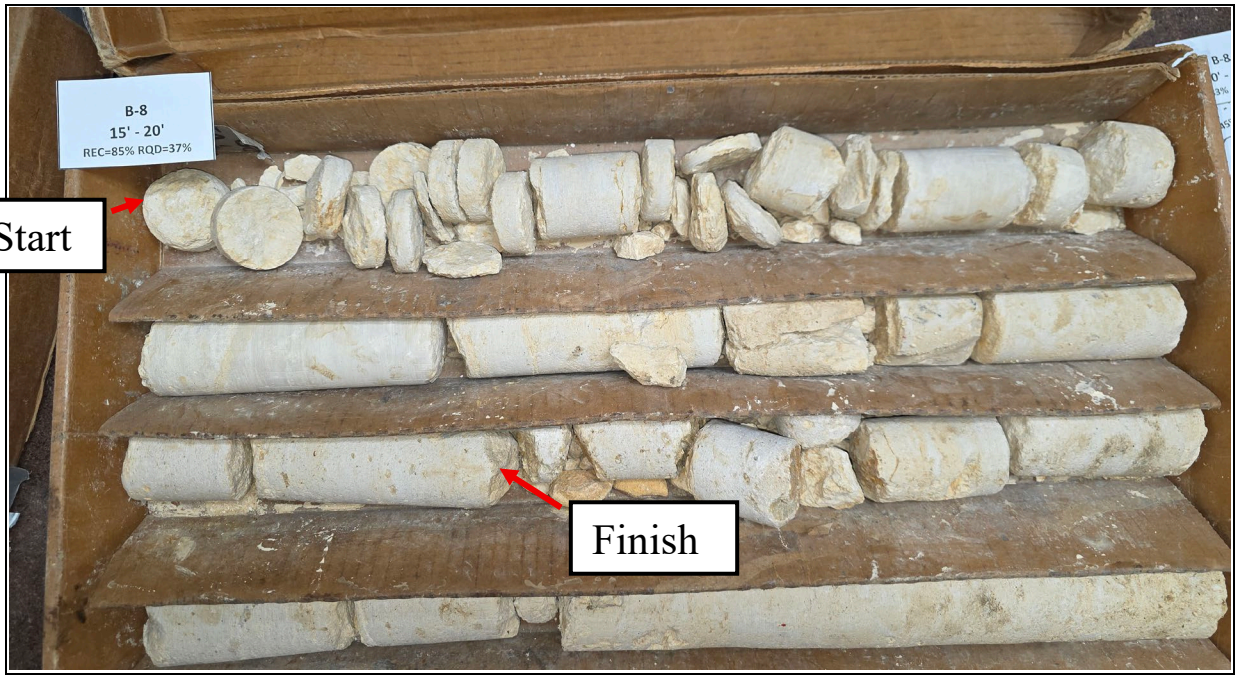


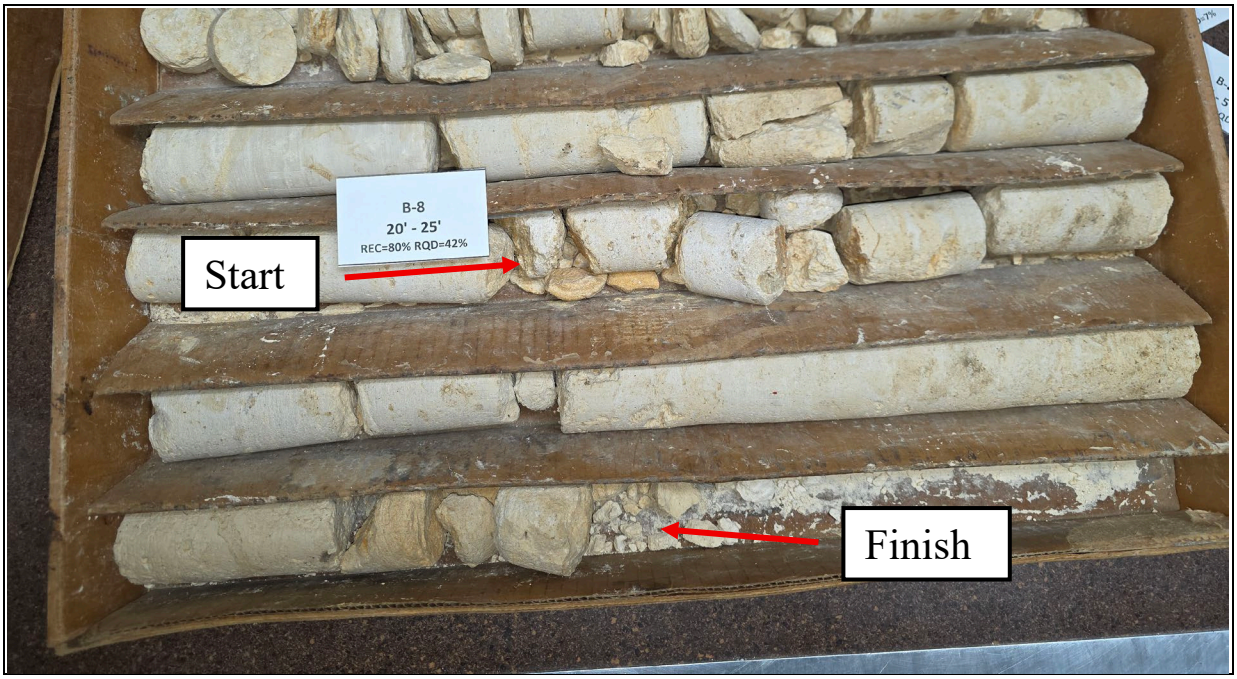
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 40



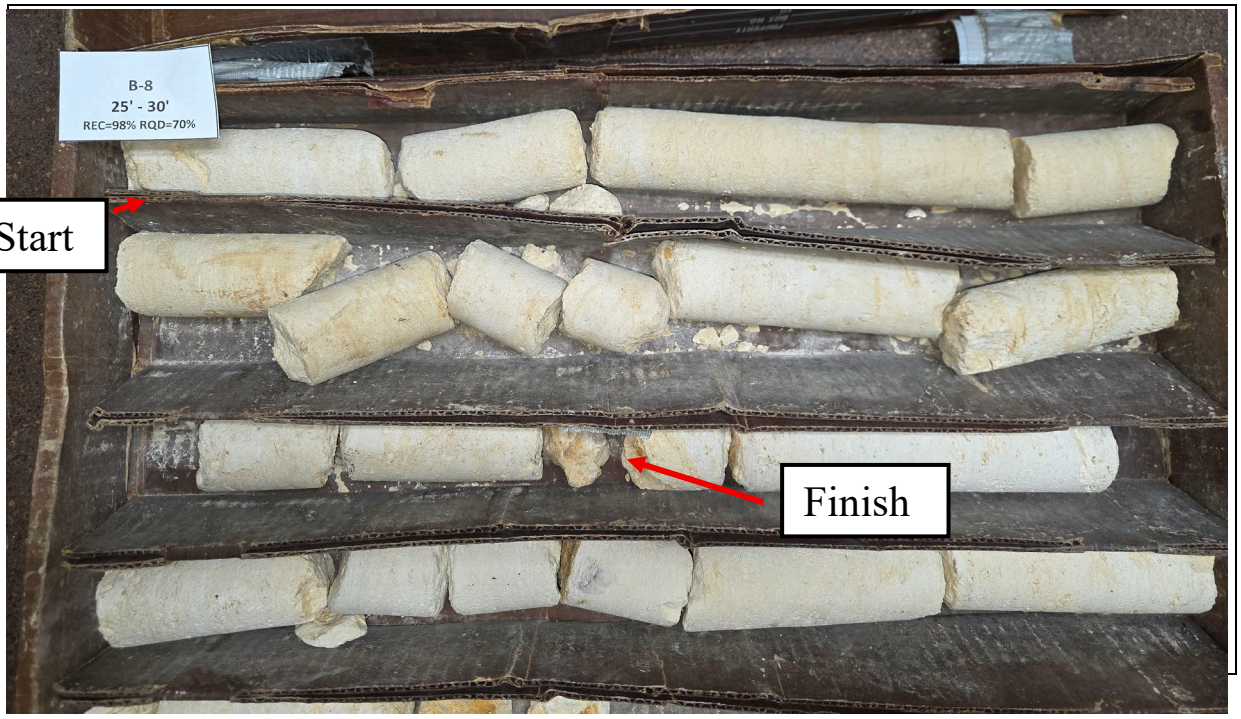


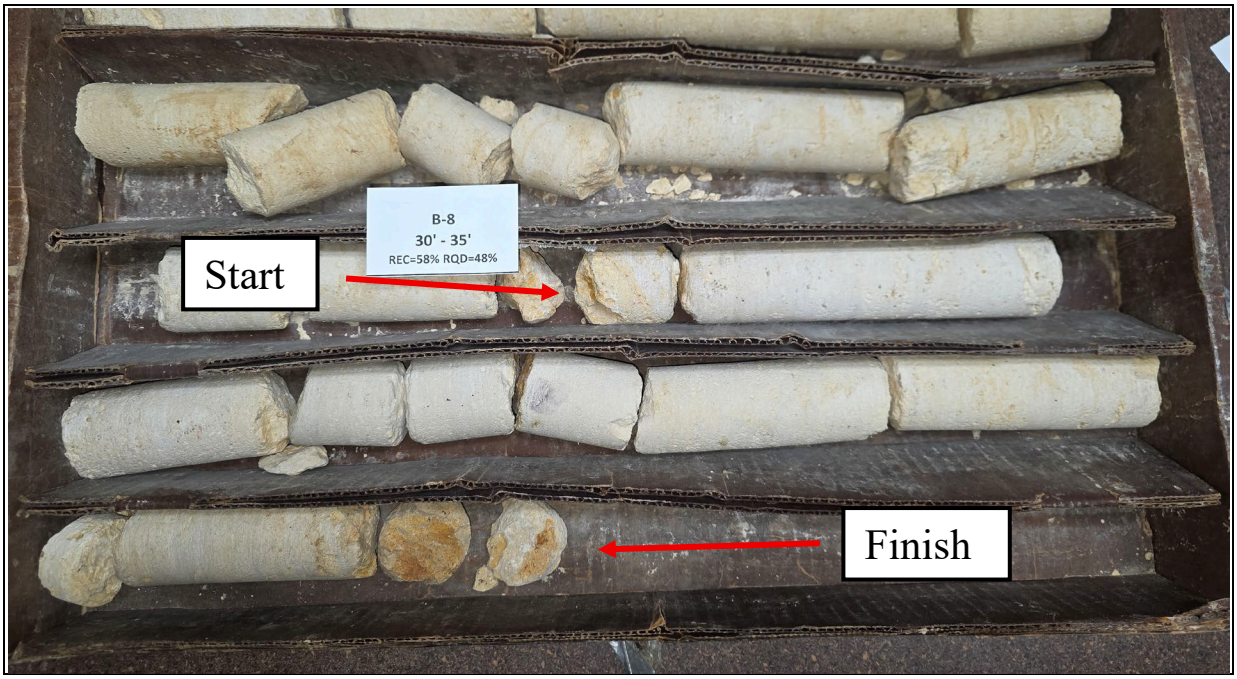
Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 41





Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 42



Rock Core Photos

New Elementary School No. 5
Atlas Ranch
Jarrell, Texas

ALLIANCE ENGINEERING GROUP, INC.

Prepared By: JAM		Project #: AE26-0501
Test Method: N/A	Date: July, 2026	Figure #: 43

WinPAS

Pavement Thickness Design According to

1993 AASHTO Guide for Design of Pavements Structures

American Concrete Pavement Association

Rigid Design Inputs

Project Name:! Jarrell Elementary School #5 - Atlas Ranch!
Route:! CR 344
Location:! Jarrell, Texas
Owner/Agency:!
Desription: Bus Loop - 250,000 ESAL's

Rigid Pavement Design/Evaluation

Concrete Thickness	5.31	**inches**	**Load Transfer Coefficient**	3.20	
Total Rigid ESALs	250,000		**Modulus of Subgrade Reaction**	261	**psi/in.**
Reliability	90.00	**percent**	**Drainage Coefficient**	1.00	
Overall Standard Deviation	0.35		**Initial Serviceability**	4.20	
Flexural Strength	550	**psi**	**Terminal Serviceability**	2.00	
Modulus of Elasticity	3,700,000	**psi**			

Modulus of Subgrade Reaction (k-value) Determination

Resilient Modulus of the Subgrade	3,500.0	**psi**
Unadjusted Modulus of Subgrade Reaction	199	**psi/in**
Depth to Rigid Foundation	5.00	**feet**
Loss of Support Value (0,1,2,3)	0.0	

Modulus of Subgrade Reaction	261	**psi/in.**

Figure 44

WinPAS

Pavement Thickness Design According to

1993 AASHTO Guide for Design of Pavements Structures

American Concrete Pavement Association

Rigid Design Inputs

Project Name:! Jarrell Elementary School #5 - Atlas Ranch!
Route:! CR 344
Location:! Jarrell, Texas
Owner/Agency:!
Desription: Car Parking Lot and Parent Drop Off - 16,000 ESAL

Rigid Pavement Design/Evaluation

Concrete Thickness	4.50	**inches**	**Load Transfer Coefficient**	3.20	
Total Rigid ESALs	16,000		**Modulus of Subgrade Reaction**	261	**psi/in.**
Reliability	90.00	**percent**	**Drainage Coefficient**	1.00	
Overall Standard Deviation	0.35		**Initial Serviceability**	4.20	
Flexural Strength	550	**psi**	**Terminal Serviceability**	2.00	
Modulus of Elasticity	3,700,000	**psi**			

Modulus of Subgrade Reaction (k-value) Determination

Resilient Modulus of the Subgrade	3,500.0	**psi**
Unadjusted Modulus of Subgrade Reaction	199	**psi/in**
Depth to Rigid Foundation	5.00	**feet**
Loss of Support Value (0,1,2,3)	0.0	

Modulus of Subgrade Reaction	261	**psi/in.**

ALLIANCE ENGINEERING GROUP, INC.

- GEOTECHNICAL ENGINEERING
- ENVIRONMENTAL CONSULTING
- CONSTRUCTION MATERIALS ENGINEERING
- CONSTRUCTION MATERIALS TESTING

October 22 2026

Jarrell Independent School District
Attn: Robert Navarro, CFO
c/o: Mr. Stephen Dorman, P.E.
504 S. 5th St.
Jarrell, Texas 76537

Re: Geotechnical Clarifications
Proposed New Elementary School No. 5 (Atlas Ranch)
Jarrell, Texas
Alliance Engineering Group Project No. AE26-0501-Addendum Letter #1

Dear Mr. Navarro:

This letter presents our formalized clarification responses to several questions and/or comments from the Design Team regarding the Proposed New Elementary School No. 5 (Atlas Ranch).

Item #1: The concrete pavement sections call for "steel reinforcement" but make no recommendations for the reinforcement bar details, size, quantity/spacing, etc:

- Concrete paving may use either, Grade 40 or 60, #4 rebar at 16" On-Center-Each-Way (OCEW) or #3 rebar at 12" On-Center-Each-Way (OCEW), placed in the approximate middle of the paving. Sawcut joints at maximum 15 feet, cut within 4 to 12 hours of surface finishing.

Item #2: Natural weathered limestone: The building pad recommendations require removal of the existing fill to the top of natural weathered limestone. We are interpreting the natural Lean Clay/Severely Weathered Limestone (CL/SWLS) identified in the boring logs as the top of natural weathered limestone for purposes of establishing the required excavation depth. Please confirm this is correct, or otherwise advise.

- Yes, the natural described as Lean Clay/Severely Weathered Limestone (CL/SWLS) on the boring logs may be interpreted as Weathered Limestone for fill excavation purposes.

Item #3 Former pond excavation: The report states that excavation shall be observed to verify that removal extends to the vertical and lateral limits of the former pond. We anticipate that the SITA would observe the excavation as needed to verify that the existing fill has been removed to the required natural material and that the lateral limits of the fill have been adequately removed prior to placement of new fill. Please confirm this is acceptable, or advise if a different level of observation is recommended.

- Yes, the Special Inspection Testing Agency (SITA) is the appropriate entity to observe the limits of excavation to ensure the fill soils have been properly removed

Item #4 Limits of improved subgrade: In addition to the improved subgrade limits identified in the report and on Illustration 1, we intend to require the building pad improvements to extend a minimum of 5 feet beyond the building perimeter. Please confirm that a 5-foot minimum extension is acceptable, or advise if a greater minimum extension is recommended.

- Yes, extending the improved subgrade to 5 feet beyond the building perimeter is acceptable

Item #5 Fill compaction: The compaction requirements on Page 8 differ from those provided in Table 8. We intend to follow the Page 8 requirements of 98% of ASTM D698 within 5 feet of finished grade and 100% below 5 feet. Please confirm this is correct, or advise otherwise.

- The subgrade improvement may utilize the 95%+ compaction specification, at all depths.

Item #6 Drilled shaft water: The report provides conflicting requirements regarding the maximum amount of water permitted in the shaft prior to concrete placement, stating both 4 inches and 2 inches. We intend to use a maximum of 4 inches of water prior to concrete placement. Please confirm this is acceptable, or advise otherwise.

- A maximum of 4 inches of water may remain in the shaft prior to concrete placement.

Item #7 Utility trench drainage: The report states that water removal should be planned for "both during and after construction," particularly in downhill areas, because granular pipe bedding and limestone backfill may act as a trench drain and convey water from uphill areas to lower areas. Please clarify what is meant by the "uphill" and "downhill" areas for this site and whether specific areas of concern have been identified. We understand that water collecting at low points along the utility trench system may require removal during construction. However, please clarify what permanent drainage measures, if any, are intended by the recommendation to provide water removal "after construction."

- Because there is limestone near the surface in some areas of the site, rainwater will tend to perch atop the limestone. Any utility trenches in these areas can act as a French drain and collect water from the near surface limestone. If these utility trenches slope down towards the building, this will direct water to below the building through the pipe bending material. If the utility trenches can be graded away from the building , this will prevent the flow of water to below the building, otherwise, concrete or clay plugs in the utility trenches will be needed to stop the flow of water to below the building.

Item #8 Exposed concrete slabs: The report recommends a "lower water-to-cement ratio" for exposed concrete slabs. Our specifications require a maximum water-to-cementitious materials ratio (w/cm) of 0.50. Please confirm that a maximum w/cm of 0.50 satisfies this recommendation, or advise otherwise. The report also recommends "seal-coating the surface after finishing to retain moisture." Please clarify whether this is intended to refer to curing of the concrete.

- For the exposed concrete slab areas, we recommend a maximum water to cement ratio of 0.45. Other areas may utilize a higher water to cement ratio.

- Yes, "seal-coating the surface after finishing to retain moisture." is referring to a curing and seal compound. The curing/seal compound shall be compatible with the planned concrete coating and durable enough to withstand the anticipated traffic on the slab during the curing period.

Item #9 •The report's narrative specifies 98% Standard Proctor for fill within 5 feet of finished grade and 100% for deeper fill. However, Table 8 specifies 95%+ Standard Proctor for building flexible base and alternate select fill. Can you confirm which requirements govern, including exterior improvements within the improved subgrade envelope?

- The subgrade improvement may utilize the 95%+ compaction specification, at all depths.

Item #10 Can you confirm whether alternate select fill is acceptable throughout the improved subgrade envelope, including beneath patios, sidewalks, basketball courts, and other adjacent exterior improvements? If so, should the same material and compaction requirements apply throughout?

- The alternate select fill may be used throughout the entire improved subgrade, including beneath patios, sidewalks, basketball courts, and other adjacent exterior improvements. The same material throughout the entire building pad is not required; however, if multiple materials are used, they shall be placed in multiple uniform lifts within the building pad (i.e. Material 1 Lifts 1 to 4, Material 2 Lifts 4 to 6, etc. and not intermixed).

Item #11 The revised report permits Grade 3 flexible base beneath the building. Can you confirm whether Grade 3 is also acceptable beneath site pavements, or whether pavement sections should continue to specify Grade 1-2 flexible base?

- Flexible base beneath the paving shall be Grade 1-2 flexible base. (Grade 3 is not allowed)

Item #12 Table 8 specifies moisture conditioning between +2% and +6% of optimum for pavement subgrade, while the pavement recommendations on Page 18 specify +2% to +5%. Can you confirm which moisture-content range should govern the pavement subgrade preparation requirements?

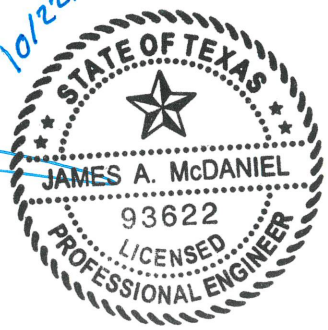
- Moisture-content range of the moisture-conditioned subgrade shall be +2 to +6 of optimum moisture content.

We appreciate to be of service on this project. If there are questions or comments, please contact us at your convenience.

Respectfully submitted,

ALLIANCE ENGINEERING GROUP, INC.
TBPE Firm No. 11290

10/22/2026



James A. McDaniel, P.E.
Project Engineer

JAM/jk

Dist: Sledge Engineering, LLC – Mr. Stephen Dorman

cc: File

z;data/Projects/engineering/2026/AE26-0501/Addendum Letter #1

SECTION 05 5516
METAL STAIR NOSINGS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Cast-in-Place Interior Stair Nosings

B. Exterior Stair Nosings

1.02 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete

B. Section 05 5100 - Metal Stairs

1.03 REFERENCE STANDARDS

A. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes

B. ADAAG, Americans with Disabilities Act Accessibility Guidelines.

C. TAS, Texas Accessibility Standards

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product data: Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:

1. Materials list of items proposed to be provided under this Section;
2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
3. Shop Drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades; including color samples.
4. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.05 QUALITY ASSURANCE

A. See Section 01 4000 - Quality Requirements, for additional requirements.

B. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

C. Perform shop and/or field welding required in connection with the work of this Section in strict accordance with pertinent recommendations of the American Welding Society.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with pertinent provisions of Section 01 6000 - Product Requirements.

1.07 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

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

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. American Safety Tread Company: www.americansafetytread.com

B. Balco, Inc.: www.balcousa.com

C. Substitutions: See Section 01 6000 - Product Requirements.

2.02 MATERIALS

A. Provide Exposed Steel Stringer & Stair Risers where indicated on the drawings.
   1. Color: Refer to 01 6210-Schedule of Materials and Colors.

B. Cast-in-Place Interior Stair Nosings
   1. At interior locations of concrete filled steel stair pans, stair nosings shall be a two part system, equal to type DST-330 (Type 1 Anchor) as manufactured by Balco, Inc. The base shall consist of heat treated extruded aluminum alloy 6063-T5. The abrasive filler shall consist of a mixture of aluminum oxide and silicon carbide granules in an epoxy matrix locked into the extruded channels of the base. The abrasive ribs shall project a minimum of 1/16 inch above the extruded channels. Nosings shall be full length of steps. Color shall be as selected by the architect.

C. Exterior locations
   1. At exterior locations of concrete stairs, nosings shall be a two part system, equal to type XH-330 (Type 1 Anchor) as manufactured by Balco, Inc. The base shall consist of heat treated extruded aluminum alloy 6063-T5. The abrasive filler shall consist of a mixture of aluminum oxide and silicon carbide granules in an epoxy matrix locked into the extruded channels of the base. Nosings shall terminate not more than 1" from ends of steps for poured concrete stairs. Color shall be as selected by the architect.

2.03 ACCESSORIES

A. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Architect.

2.04 FABRICATION

A. Except as otherwise shown on the Drawings or the approved Shop Drawings, use materials of size, thickness, and type required to produce reasonable strength and durability in the work of this Section.

B. Fabricate with accurate angles and surfaces which are true to the required lines and levels, grinding exposed welds smooth and flush, forming exposed connections with hairline joints, and using concealed fasteners wherever possible.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine the area and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

B. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.

3.02 INSTALLATION

A. General
   1. Set work accurately into position, plumb, level, true and free from rack.
   2. Anchor firmly into position.
   3. Where field welding is required, comply with AWS recommended procedures of manual-shielded metal-arc welding for appearance and quality of weld and for methods to be used in correcting welding work.
   4. Grind exposed welds smooth and touch-up shop prime coats.
   5. Do not cut, weld, or abrade surfaces which have been hot-dip galvanized after fabrication and which are intended for bolted or screwed field connections.

3.03 CLOSEOUT ACTIVITIES

A. See Section 01 7800 - Closeout Submittals, for closeout submittals.

3.04 PROTECTION

A. Protect installed Ladders from subsequent construction operations.

3.05 MAINTENANCE

A. See Section 01 7000 - Execution Requirements, for additional requirements relating to maintenance service.

END OF SECTION

SECTION 11 3013
RESIDENTIAL APPLIANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Kitchen appliances.

1.02 REFERENCE STANDARDS

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

1.03 SUBMITTALS

A. See Section 01 3000 - 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.

1.04 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).

1.05 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Submit a written warranty, executed by the Manufacturer, agreeing to repair or replace equipment that fails in materials or workmanship within the specified warranty period.
   1. Warranty Period: One (1) year after date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Subject to compliance with requirements indicated herein, provide products of one of the listed manufacturers.
   1. Cosmo Appliances: www.cosmoappliances.com.
   2. Frigidaire Professional: www.frigidaire.com.
   3. General Electric Appliances: www.geappliances.com.
   4. Hoshizaki America, Inc.: www.hoshizakiamerica.com.
   5. KitchenAid Appliances: www.kitchenaid.com.
   6. Summit Appliance: www.summitappliance.com.
   7. Whirlpool Corporation: www.whirlpool.com.
   8. Substitutions: Under provisions of Section 01 6000 – Product Requirements.

2.02 KITCHEN APPLIANCES

A. Range: Electric, free-standing, with glass-ceramic cooktop.
   1. Basis of Design (Electric - ADA): GE, Model# JB625RKSS
   2. Size: 30 inches wide.
   3. Oven: Self-cleaning.
   4. Burners: Four (4).
   5. Controls: Push-to-turn knobs with electronic clock and timer.
   6. Features: Include storage drawer, oven door window, oven light, and safety control lock out function.
   7. Exterior Finish: Stainless steel.

B. Cooking Exhaust: Range hood.
   1. Basis of Design (Electric): Cosmo, Model# UC30
   2. Size: 30 inches wide.
   3. Fan: Three-speed, 380 cfm
   4. Exhaust: Round, vented to exterior.
   5. Features: Include cooktop light and removable grease filter.
   6. Exterior Finish: Stainless steel.

PART 3 EXECUTION

3.01 EXAMINATION

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

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Anchor built-in equipment in place.

3.03 ADJUSTING

A. Adjust equipment to provide efficient operation.

3.04 CLEANING

A. Remove packing materials from equipment and properly discard.

B. Wash and clean equipment.

END OF SECTION

SECTION 11 6817
ENGINEERED WOOD FIBER

PART 1 - GENERAL

1.01 INTRODUCTION

A. Install minimum 12” depth of Engineered Wood Fiber (EWF) play surface on minimum 3 inches of clean drainage gravel in designated play or swing areas. EWF and gravel to be separated by geotextile fabric.

1.02 QUALITY ASSURANCE

A. Comply with all applicable local, state, and federal requirements regarding materials, methods or work, and disposal of excess and waste materials.
   1. Uniform Building Code
   2. Title II & Title III, Americans with Disabilities Act (ADA).
   3. American Society of Testing and Materials (ASTM)
   4. Shall comply with the latest version of the following:
   5. ASTM: F1951, Determination of Accessibility of Surface systems under and around play equipment.
   6. ASTM: F1292, Impact attenuation
   7. • Impact attenuation of surface systems under and around playground equipment.
   8. ASTM: F2075, Minimum characteristics for those factors that determine particle size, consistency, purity and ability to drain.
   9. International Play Equipment Manufacturer’s Association Certification (IPEMA)

B. Guarantees:
   1. Contractor installing the safety surface EWF shall be experienced.
   2. Contractor shall provide documentation of recent work, with references.
   3. Contractor shall furnish samples, as specified, of the material to be used from manufacturer.
   4. Contractor shall furnish product manufacturers lab test results, as part of the submittal process, on all ASTM specifications stated previously in this Section.
   5. Contractor shall furnish product manufacturers’ IPEMA Certification documentation.

PART 2 - PRODUCTS

2.01 GENERAL

A. Play surface shall be a four part system, consisting of a top safety surface (EWF), separator geotextile fabric, drainage course and bottom layer geotextile fabric on finish grade (See page 3. Section 3.03)

B. The EWF system shall be a surfacing material, which produces a soft, durable, smooth, level surface suitable for use in and around playground equipment to reduce the risk of injuries from falls which meets the requirements of the CPSC. It must also be able to provide a firm and stable surface that meets the intent of the Americans with Disabilities Act.

C. Provide one (1) wear mat (minimum size: 36”x36”x1.5” rubber mat with a 2” bevel on all sides) under each swing, slide exit, and sliding poles.

2.02 MATERIALS

A. EWF Fall Surface:

1. The fall surface course shall consist of high quality EWF that meets current ASTM standards, has been tested and approved by CPSC and is IPEMA certified. Contractor must provide Landscape Architect or Owner with sample and documentation stating that the material is IPEMA certified prior to installation.
2. Thickness of top course must be a minimum of 12 inches after compaction.

B. Geotextile Fabric:

1. The EWF and drainage gravel shall be separated by geotextile fabric.
2. Fabric shall be of 100% polyester non-woven geotextile fabric.
3. Fabric shall have an apparent opening size of 100/.150, have a permeability of .31 cm/sec, and a water flow rate of 130 gpm/ft which comply with current ASTM D-4491 and ASTM D – 4751. Submit sample of material to owner or architect for review and approval prior to installation.

C. Gravel:

1. Drainage gravel shall consist of clean and washed 1” diameter drainage gravel. Submit sample of material to owner or architect for review and approval prior to installation.

PART 3 - EXECUTION

3.01 INSTALLATION OF A NEW EWF SYSTEM

A. Installation of the new EWF system shall be performed by qualified contractor, subcontractor or owner representative. Contractor shall provide Owner with a schedule of work and written set of procedures, approved by Owner’s Representative.

1. The play or swing equipment shall be in place prior to installation of a new EWF system.

B. The installation of a new EWF system shall be performed in the following manner:

1. If an existing EWF system (EWF & drainage gravel) is in place, remove the system with care while protecting all existing surrounding features. Do not disturb existing trees, containment curbs, sidewalks, play equipment, etc. and report any discrepancies or conflicts to the owner prior to commencement of work.
2. Following the excavation of the existing EWF and drainage gravel, establish a finish grade 15” minimum below the inside of the play or swing area containment curbing.
3. Install bottom layer of geotextile fabric across the finish grade, totally covering all exposed earth within the containment area. The geotextile fabric shall also wrap the sides of the drainage gravel.
4. Install the new drainage gravel. Drainage base shall consist of 3” minimum depth of clean and washed 1” diameter drainage gravel. The top of the drainage gravel layer shall be placed 12” below the top of curb, evenly spread across the entire containment area.
5. Install top layer of geotextile fabric across the new drainage gravel, totally covering all exposed gravel within the containment area. The geotextile fabric shall also wrap the sides of the drainage gravel.
6. Install the EWF fall surfacing. The EWF must totally cover the designated fall area. The EWF shall be installed in 6” lifts and compacted with rolling equipment until the desired 12” depth is achieved. Each lift shall be thoroughly watered to

the point of runoff prior to compacting operations. Watering and compacting of EWF below low decks or other non accessible areas is not required.

7. A Certified Playground Safety Inspector (recommended) or other qualified individual designated by Jerrell I.S.D. shall reexamine the playground area to determine compliance.
8. Contractor shall be responsible for correctness of final grades and lines, and conform with all standard safety practices, procedures, specifications, and construction drawings (if provided).

END OF SECTION 11 6817

SECTION 12 9300
SITE FURNISHINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including general and supplementary conditions and Division 01 specification sections, apply to this section.

1.02 SUMMARY

A. Section Includes:

1. Tables
2. Litter Receptacles
3. Bench
4. Chair
5. Bike Rack

B. Related Requirements:

1. Division 03 Section “Cast-in-Place Concrete” for installing pipe sleeves cast, installing anchor bolts cast in concrete footings.

2. Division 31 Section “Earth Moving” for excavation for installing concrete footings.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified.

C. Product Schedule: For site furnishings, use same designations indicated on drawings.

1.04 INFORMATIONAL SUBMITTALS

A. Material Certificates: For site furnishings:

1. Wood Preservative Treatment: Include certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative retained, and compliance with applicable standards.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For site furnishings to include in maintenance manuals.

1.06 MAINTENACE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Trash Receptacle Inner Containers: Five (5) full size units for each size indicated.

PART 2 - PRODUCTS

2.01 Table

A. Basis-of-Design Product: Parc Centre Table as supplied by Landscape Forms or approved equal (OFOI)

1. Model: 28” Round

2. Mount: Movable
3. Finish: Powder coated
4. Color: Sage

B. Basis-of-Design Product: Harvest Table as supplied by Landscape Forms or approved equal (OFOI)

1. Model: Dining Height
2. Mount: Surface Mount
3. Finish: Powder coated
4. Frame Color: Loll Navy Blue
5. Top Color: Blue Ash

C. Basis-of-Design Product: Take-Out Mini Table as supplied by Landscape Forms or approved equal (OFOI)

1. Model: Mini
2. Mount: Surface Mount
3. Finish: Powder coated
4. Color: Blue Ash

2.02 Litter Receptacles

A. Basis-of-Design Product: Chase Park Litter as supplied by Landscape Forms or approved equal (OFOI)

1. Model: Side-Opening
2. Mount: Surface Mount
3. Finish: Powder coated
4. Color: Mercury Metallic

2.03 Bench

A. Basis-of-Design Product: Harvest Bench as supplied by Landscape Forms or approved equal (OFOI)

1. Model: 94” Bench, no arms
2. Mount: Moveable
3. Finish: Powder coated
4. Frame Color: Loll Navy Blue
5. Top Color: Blue Ash

B. Basis-of-Design Product: Harvest Bench as supplied by Landscape Forms or approved equal (OFOI)

1. Model: 46” Bench, no arms
2. Mount: Moveable
3. Finish: Powder coated
4. Frame Color: Loll Navy Blue
5. Top Color: Blue Ash

C. Basis-of-Design Product: Vibe Recycled Plastic Contour Bench with Armrests as supplied by Anova Site Furnishings or approved equal (OFOI)

1. Length: 5-1/2’
2. Mount: Surface Mount
3. Finish: Powder coated
4. Frame Color: Sage
5. Plastic Slat Color: Brazilian Walnut – Woodgrain

2.04 Chair

A. Basis-of-Design Product: 21 Chair as supplied by Landscape Forms or approved equal (OFOI)

1. With Arms
2. Mount: Moveable
3. Finish: Powder coated
4. Seat Color: Blue Ash
5. Frame Color: Sage

B. Basis-of-Design Product: Kids Lollygagger Lounge Chair as supplied by Loll Designs or approved equal (OFOI)

1. Mount: Moveable
2. Color: Loll Navy Blue

2.05 Bike Rack

A. Basis-of-Design Product: Hoop Bike Rack as supplied by Landscape Forms or approved equal (OFOI)

1. Model: Surface Mount
2. Color: Mercury Metallic

2.06 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemished and complying with the following:
    1. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B 211.
    2. Excluded Bars, Rods, Wire, Profiles, and Tubes: ASTM B 211.
    3. Structural Pipe and Tube: ASTM R 429/B 429M.
    4. Sheet and Plate: ASTM B 209.
    5. Castings: ASTM B 26/B 26M.

B. Steel and Iron: Free of surface blemishes and complying with the following:
    1. Plates, Shapes, and Bars: ASTM A 36/A 36 M.

2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53/A 53M, or electric resistance welded pipe complying with ASTMA A 135/A 135M.

3. Tubing: Cold-formed steel tubing complying with ASTMA 500/A 500M.

4. Mechanical Tubing: Cold-rolled, electric resistance welded carbon or alloy steel tubing complying with ASTMA 512, or steel tubing fabricated from steel complying with ASTMA 1011/A 101 1M and complying with dimensional tolerances in ASTMA 500/A 500M; zinc coated internally and externally.

5. Sheet: Commercial steel sheet complying with ASTMA 1011/A 1011M.

6. Perforated Metal: From steel sheet not less than 0.120” (3.0mm) nominal thickness; Manufacturer’s standard perforation pattern.

7. Expanded Metal: Carbon-steel sheets, deburred after expansion, and complying with ASTM F 1267.

8. Malleable-iron Castings: ASTM a 47/a 47m, grade as recommended by fabricator for type of use intended.

9. Gray-iron Castings: ASTMA 48/A 48M, Class 200.

C. Stainless Steel: Free of surface blemishes and complying with the following:
   1. Sheet, Strip, Plate, and Flat Bars: ASTM A 666.

   2. Pipe: Schedule 40 steel pipes complying with ASTM a 312/A 312M.

   3. Tubing: ASTM A 554.

D. Wood: Surfaced smooth on four (4) sides with eased edges; kiln dried, free of knots, solid stock of species indicated.
   1. Wood Species: Manufacturer’s standard.

   2. Certified Wood: Fabricate site furnishings with components produced from wood obtained from forests certified by an FSC accredited certification body to comply with FSC STD-01-001, “FSC Principles and Criteria for Forest Stewardship.”

   3. Finish: Manufacturer’s standard transparent wood preservative treatment and sealer.

E. Fiberglass: Multiple laminations of glass fiber reinforced polyester resin with UV light stable, colorfast, non-fading, weather and stain resistant, colored polyester gel coat, and with Manufacturer’s standard finish.

F. Plastic: Color impregnated, color and UV light stabilized, and mold resistant.
   1. Polyethylene: Fabricated from virgin plastic HDPE resin.

G. Anchors, Fasteners, Fittings, and Hardware: Manufacturer's standard, corrosion resistant coated or non-corrodible materials appropriate for the type of materials that it abuts; commercial quality, tamperproof, vandal and theft resistant, concealed, recesses, and capped or plugged.
    1. Angle Anchors: For inconspicuously bolting legs of site furnishings to on and below grade substrate; per Manufacturer's recommendation. Extend fasteners through pavers from concrete base when installed in a paver (brick, concrete, stone, etc.) surface.

H. Non-shrink Non-metallic Grout: Premixed, factory-packaged, non-staining, non-corrosive, non-gaseous grout complying with ASTM C 1107/C 1107M; recommended in writing by Manufacturer, for exterior applications.

I. Erosion Resistant Anchoring Cement: Factory packaged, non-shrink, non-staining, hydraulic controlled expansion cement formulation for mixing with potable water at project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by Manufacturer, for exterior applications.

J. Retain "Galvanizing" paragraph below if ferrous components are used to fabricate site furnishings.

K. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication.
    1. Hot Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

2.07 WOOD PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment: Pressure treat wood according to AWPA U1 and the following:
    1. Use preservative chemicals acceptable to authorities having jurisdiction and containing no arsenic or chromium. Use chemical formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.

    2. Kiln dry lumber and plywood after treatment to a maximum moisture content, respectively, of 19% and 15%. Do not use materials that are warped or do not comply with requirements for untreated materials.

2.08 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with cull length, full penetration welds and hollow members with circumference welds. At expose connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matched contours adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jugs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Preservative-treated Wood Components: Complete fabrication of treated items before treatment if possible. If cut after treatment, apply field treatment complying with AWPA M$ to cut surfaces.

E. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.

F. Factory Assembly: Assemble components in the factory greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.09 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance adjoining components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

2.10 ALUMINUM FINISHES

A. Baked Enamel, Powder-coat Finish: Manufacturer’s standard, baked, polyester, powder-coat finish complying with finish Manufacturer’s written instructions for surface preparation, including pre-treatment, application, baking, and minimum dry film thickness.

2.11 STEEL AND GALVANIZED STEEL FINSIHES

A. Baked Enamel, Powder-coat Finish: Manufacturer’s standard, baked, polyester, powder-coat finish complying with finish Manufacturer’s written instructions for surface preparation, including pre-treatment, application, baking, and minimum dry film thickness.

B. PVC Finish: Manufacturer’s standard, UV light stabilized. Mold-resistant, slip-resistant, matte textured, dipped or sprayed on, PVC plastisol finish, with flame retardant added; complying with coating Manufacturer’s written instructions for pre-treatment, application, and minimum dry film thickness.

2.12 IRON FINISHES

A. Baked Enamel, Powder-coat Finish: Manufacturer’s standard, baked, polyester, powder-coat finish complying with finish Manufacturer’s written instructions for surface preparation, including pre-treatment, application, baking, and minimum dry film thickness.

2.13 STAINLESS STEEL FINSIHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished finishes: Grind and polish surfaces to produce uniform finish, free of cross hatches.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions, with installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the work.

B. Procced with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

A. Comply with Manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishing where required.

B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.

C. Install site furnishings level, plumb, true, and securely anchored at locations indicated on drawings.

D. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operation until concrete is sufficiently cured.

E. Posts set into Voids in Concrete: Form or core drill-holes for installing posts in concrete to depth recommended in writing by Manufacturer of the site furnishings and 3/4" (19mm) larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with non-shrink, nonmetallic grout, mixed and placed to comply with anchoring material Manufacturer's written instructions, with top smoothed and shaped to shed water.

F. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with non-shrink, non-metallic grout, mixed and placed to comply with anchoring material Manufacturer's written instructions, with top smoothed and shaped to shed water.

END OF SECTION 12 9300

SECTION 31 0516
AGGREGATES FOR EARTHWORK

PART 1 - GENERAL

These specifications are provided as a supplement to the governing jurisdictional authority's standards and specifications. These specifications shall have precedence when no other governing guideline exists.

1.01 SECTION INCLUDES

A. Aggregate, granular, and select fill materials for use where specified in other Sections or indicated on the Construction Drawings.

1.02 RELATED SECTIONS

A. Section 02 4113 – Site Demolition

B. Section 31 1000 - Site Clearing

C. Section 31 2300 - Excavation and Fill

D. Section 31 3200 - Soil Stabilization

E. Section 31 2500 - Erosion and Sedimentation Control

F. Construction Drawings

1.03 REFERENCE STANDARDS

A. American Society for Testing and Materials (ASTM) latest edition
   1. C 136 - Method for Sieve Analysis of Fine and Coarse Aggregates
   2. D 698 - Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN.m/m^3))
   3. D 1557 - Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 kN.m/m^3))
   4. D 2216 - Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures
   5. D 2487 - Classification of Soils for Engineering Purposes
   6. D 6938 - Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods, or other nuclear density and moisture test methods accepted by the independent testing laboratory and Engineer.
   7. D 4318 - Liquid Limit, Plastic Limit, and Plasticity Index of Soils

B. American Association of State Highway and Transportation Officials (AASHTO) latest edition
   1. T 88 Particle Size Analysis of Soils

C. State Department of Transportation (DOT): Standard Specifications for Construction and Materials, Latest Edition.

D. Local governing authority and utility-provider standards, where applicable.

1.04 QUALITY ASSURANCE

A. Tests and analysis of aggregate materials will be performed in accordance with ASTM and AASHTO procedures specified herein.

1.05 SUBMITTALS

A. Submit 30-pound sample of each aggregate or mixture that is to be incorporated into project in air-tight containers to the independent testing laboratory or submit gradation and certification of aggregate material that is to be incorporated into project to the independent testing laboratory for review.

B. Submit name of each material supplier and specific type and source of each material. Changes in material source require approval by Engineer prior to incorporation into the project.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Construction and materials shall meet or exceed requirements of this Section and applicable state highway department specifications section(s) referred to or noted on the Construction Drawings which pertain to paving base course design, materials, preparation, and execution. Materials shall be as indicated in the Construction Documents and shall comply with state highway department specifications regarding source, quality, gradation, soundness, absorption, liquid limit, plasticity index, and mix proportioning.

Materials listed in this Section shall be used only where specifically indicated on the Construction Drawings or referenced by other Specification Sections. Where material type is not indicated, obtain Engineer’s approval prior to placement.

Class I-A and Class I-B materials shall be used only where indicated for granular embedment, drainage fill, select granular backfill, or other locations specifically shown on the Construction Drawings.

B. Soil Materials

1. Class II: Coarse-Grained Soils; conforming to ASTM D2487 Group Symbol, GW, GP, SW and SP.

2. Class III: Coarse-Grained Soils with Fines; conforming to ASTM D2487 Symbol GM, GC, SM and SC.

3. Class IV-A: Fine-Grained Soils (inorganic); conforming to ASTM D2487 Group Symbol ML and CL.

4. Class IV-B: Fine Grained Soils (inorganic); conforming to ASTM D2487 Group Symbol MH and CH.

5. Class V: Organic Soils; conforming to ASTM D2487 Group Symbol OL, OH, and PT.

C. Aggregate Material

1. Coarse Aggregate A-1: Material shall be sound crushed limestone, crushed slag, granulated slag, crushed gravel, or other types of suitable material meeting the requirements of this section. Crushed limestone, crushed slag and crushed gravel shall meet the following grading requirements:

COARSE A-1	
Sieve Size	Percent Passing
1-1/2 inches	100
1 inch	75-100
3/4 inch	60-100
3/8 inch	35-75
No. 4	30-60
No. 30	7-30
No. 200	0-5

2. Coarse Aggregate A-2: Material shall be crushed carbonate, crushed gravel, crushed air-cooled slag, granulated slag, a mixture of crushed and granulated slag, or other types of suitable material meeting the requirements of this item. Crushed carbonate stone or mixtures of crushed and granulated slags shall meet the following gradation requirements:

COARSE A-2	
Sieve Size	Percent Passing
2 inches	100
1 inch	70-100
¾ inch	50-90
No. 4	30-60
No. 30	7-30
No. 200	0-5

3. Aggregate Type A-3: Pea Gravel – Natural stone; washed, free of clay, shale, organic matter; graded in accordance with ASTM C136 and D2487; to the following limits:

   a. Minimum size: 1/4 inch
   b. Maximum Size: 5/8 inch

4. Fine Aggregate Type A-4: Sand – Natural river or bank sand; washed; free of silt, clay, loam, friable or soluble materials, and organic matter; graded in accordance with ASTM C136 and D2487; within the following limits:

FINE A-4	
Sieve Size	Percent Passing
No. 4	90-100
No. 30	7-40
No. 200	0-5

5. Class I-A: Material shall be sound crushed limestone, crushed slag,

granulated slag, crushed gravel, or other types of suitable material meeting the requirements of this item. Crushed limestone, crushed slag and crushed gravel shall meet the following grading requirements:

Sieve Size	Percent Passing
1-1/2 inches	100
No. 4	<10
No. 200	<5

6. Class I-B: Material shall be crushed carbonate, crushed gravel, crushed air-cooled slag, granulated slag, a mixture of crushed and granulated slag, or other types of suitable material meeting the requirements of this item. Crushed carbonate stone or mixtures of crushed and granulated slags shall meet the following gradation requirements:

Sieve Size	Percent Passing
1-1/2 inches	100
No. 4	<50
No. 200	<5

7. Flexible Base: Flexible base used within pavement sections, flatwork subgrade areas, utility trench restoration, and other locations indicated on the Construction Drawings shall conform to the 2024 TxDOT Standard Specifications, Item 247, Type A or Type D, Grade 1-2, unless otherwise specifically indicated on the Construction Drawings or approved in writing by the Geotechnical Engineer. Grade 3 flexible base may be used only where specifically authorized for the applicable improvement. Flexible base shall comply with the applicable liquid limit, plasticity index, gradation, source, quality, compaction, and testing requirements of the Geotechnical Report and Construction Documents.

8. Alternate Select Fill: Alternate select fill may be used throughout designated improved subgrade treatment areas, including beneath patios, sidewalks, basketball courts, and other adjacent exterior improvements. Alternate select fill may consist of onsite milled weathered limestone or off-site clayey gravel (CG), clayey sand (SC), or sandy lean clay (CLS). Alternate select fill shall have a maximum Liquid Limit of 40, Plasticity Index between 4 and 20, not more than 70 percent passing the No. 200 sieve, and a maximum particle size of 4 inches. Material shall be tested and approved by the Geotechnical Engineer prior to placement. Where pavement occurs within an improved subgrade treatment area, alternate select fill may be used as underlying replacement fill but shall not replace the flexible base or moisture-conditioned subgrade layers required by the pavement section unless specifically approved by the Geotechnical Engineer.

2.02 EQUIPMENT

A. Transport off-site materials to project using well-maintained and operating vehicles. Once on site, transporting vehicles shall stay on designated haul roads and shall at no time endanger any improvements by rutting, overloading, or pumping.

PART 3 - EXECUTION

3.01 STOCKPILING

A. Stockpile on-site at locations indicated by Owner in such manner that there will be no standing water or mixing with other materials.

B. Conform to the requirements of the SWPPP re: stockpiling on site.

3.02 BORROW AND SPOIL SITES

A. Upon completion of borrow and/or spoil operations, clean up borrow and/or spoil areas as indicated on Construction Drawings in neat and reasonable manner to satisfaction of property owner and Owner.

END OF SECTION

SECTION 31 2300
EXCAVATION AND FILL

PART 1 - GENERAL

These specifications are provided as a supplement to the governing jurisdictional authority's standards and specifications. These specifications shall have precedence when no other governing guideline exists. Prior to any work on the site including excavation and fill, dial 811 to call out utility locating company. Wait for utilities to be marked prior to start of work. "Call before you dig."

1.01 SECTION INCLUDES

A. Installation of site work with particular attention to grade changes and necessary staging or phasing of work.

B. Cutting, over excavating, filling, and grading to required lines, dimensions, contours, and elevations for proposed improvements.

C. Scarifying, compacting, drying, dewatering and removing of any unsuitable material to ensure proper preparation of areas for fills or proposed improvements.

1.02 RELATED SECTIONS

A. Section 02 4113 – Site Demolition

B. Section 31 1000 - Site Clearing

C. Section 31 2318 - Rock Excavation

D. Section 31 3200 - Soil Stabilization

E. Section 31 2500 - Erosion and Sedimentation Control

F. Section 31 0516 - Aggregate for Earthwork

G. Section 32 9000 – Planting

H. Geotechnical Report, for site civil earthwork, pavement subgrade, utility trench backfill, site flatwork, and related site improvements within the Civil scope. Building pad, foundation, slab, and structural subgrade preparation shall be governed by the Architectural and Structural documents.

I. Construction Drawings

1.03 REFERENCE STANDARDS

A. American Society for Testing and Materials (ASTM) latest edition

1. D 6913 Standard Test Methods for Particle-Size Distribution of Soils Using Sieve Analysis, or other particle-size analysis test method accepted by the independent testing laboratory and Engineer.

2. D 698 Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN.m/m^3))

3. D 1557 Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 Kn.m/m^3))

4. D 2216 Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures

5. D 2487 Classification of Soils for Engineering Purposes

6. D 6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods, or other nuclear density and moisture test methods accepted by the independent testing laboratory and Engineer.

7. D 4318 Liquid Limit, Plastic Limit, and Plasticity Index of Soils

B. American Association of State Highway and Transportation Officials (AASHTO) latest edition

1. AASHTO T 88 Particle Size Analysis of Soils

C. State Department of Transportation (DOT): Standard Specifications for Construction and Materials, Latest Edition

1.04 QUALITY ASSURANCE

A. An independent testing laboratory will be retained to perform construction testing on site.

1. The independent testing laboratory shall prepare test reports that indicate test location, elevation data, and test results. Owner, Engineer, and Contractor shall be provided with copies of reports within 96 hours of time that test was performed. In event that test performed fails to meet Specifications, the independent testing laboratory shall notify Owner and Contractor immediately.

2. Costs related to retesting due to failures shall be paid for by Contractor at no additional expense to Owner. Contractor shall provide free access to site for testing activities.

3. Unless otherwise specified in the Construction Drawings or required by the Geotechnical Engineer, general earthwork, subgrade, and flexible-base compaction testing shall be performed at a minimum frequency of one test per 2,500 square feet per lift, with a minimum of three tests per applicable test area. Additional material classification, gradation, Atterberg Limits, and Proctor testing shall be performed at the frequencies established in the Geotechnical Report.

1.05 SUBMITTALS

A. Submit 30-pound sample of each type of off-site fill material that is to be used at the site in airtight container(s) for the independent testing laboratory or submit gradation and certification of aggregate material that is to be used at the site to the independent testing laboratory for review.

B. Submit name of each material supplier and specific type and source of each

material. Changes in material source require approval by Engineer and Geotechnical Engineer prior to incorporation into the Work.

C. If fabrics or geogrids are to be used, design shall be submitted for approval to Engineer and/or Geotechnical Engineer, as appropriate.

D. Submit Dewatering Plans upon request by Owner.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Excavated and re-used material for subsoil fill as specified herein.

B. Aggregate fill as specified in Section 31 0516.

C. Imported fill material approved by Owner and specified herein.

D. Topsoil fill as specified in Section 32 9000.

E. Acceptable stabilization fabrics and geogrids as specified in Section 31 3200.

F. Filter and drainage fabrics as specified in Section 31 3200.

2.02 EQUIPMENT

A. Transport off-site materials to project using well-maintained and operating vehicles. Once on site, transporting vehicles shall stay on designated haul roads and shall at no time endanger improvements by rutting, overloading, or pumping.

2.03 SOURCE QUALITY CONTROL

A. In areas to receive pavement, imported structural fill or pavement subgrade material shall be tested in accordance with the project geotechnical report. Where required by the geotechnical engineer or pavement design, CBR testing shall be performed for each type of imported material placed within pavement subgrade areas.

B. Following tests shall be performed as part of construction testing requirements on each type of on-site or imported soil material used as compacted fill:

1. Moisture and Density Relationship: ASTM D 698

2. Mechanical Analysis: AASHTO T 88

3. Plasticity Index: ASTM D 4318

PART 3 - EXECUTION

3.01 PREPARATION

A. Identify required lines, levels, contours, and datum.

B. Locate and identify existing utilities that are to remain and protect from damage.

C. Notify utility companies to remove or relocate public utilities that are in conflict with proposed improvements.

D. Protect plant life, lawns, fences, existing structures, previously installed utilities, sidewalks, paving, and curbs.

E. Protect benchmarks, property corners, and other survey monuments from damage or displacement. If marker needs to be removed it shall be referenced by licensed land surveyor and replaced, as necessary, by same.

F. Remove from site, material encountered in grading operations that, in the opinion of Engineer or Geotechnical Engineer, is unsuitable or undesirable for backfilling, subgrade, or foundation purposes. Dispose of said material in manner satisfactory to Owner. Backfill areas with layers of suitable material and compact as specified herein.

G. Prior to placing fill in existing low areas, drainage features, ponds, or other potentially jurisdictional areas, Contractor shall verify that such work is indicated on the Construction Drawings and authorized by applicable permits. If conditions are encountered that are not shown on the Construction Drawings or appear to involve wetlands, waters of the U.S., or other regulated features, stop work in the affected area and notify Owner and Engineer.

H. Dewatering:

1. Contractor shall provide temporary dewatering, surface water control, and drainage necessary to perform excavation, fill, subgrade preparation, utility work, and related construction in stable and workable conditions.

2. Control groundwater, surface water, seepage, and stormwater in a manner that prevents softening of subgrade, loss of fines, instability of slopes, damage to adjacent improvements, or discharge of sediment-laden water.

3. Dewatering discharge shall comply with applicable permits, SWPPP requirements, and laws. Do not discharge water in a manner that causes erosion, sedimentation, flooding, nuisance conditions, or damage to adjacent property.

4. Remove and replace materials rendered unsuitable by improper water control at no additional cost to Owner.

5. Provide a dewatering plan when requested by Owner, Engineer, Geotechnical Engineer, or authorities having jurisdiction.

3.02 EXCAVATION FOR FILLING AND GRADING

A. Classification of Excavation: by submitting bid, Contractor acknowledges that site has been investigated to determine type, quantity, quality, and character of excavation work to be performed. Excavation shall be considered unclassified excavation, except as indicated in the Contract Documents.

B. When performing grading operations during periods of wet weather, provide adequate dewatering, drainage and ground water management to control moisture of soils.

C. Shore, brace, and drain excavations as necessary to maintain excavation as safe, secure, and free of water at all times.

D. Excavated material containing rock or stone greater than 4 inches in largest dimension is unacceptable as fill within proposed building subgrade and paving subgrade unless otherwise accepted by the Geotechnical Engineer.

E. Excavated material containing dirt clods greater than 6-inches in largest dimension is unacceptable as fill. Clods and chunks of materials should be broken and the fill material mixed by disking, blading, or plowing, as necessary, so that a material of uniform moisture and density is obtained for each lift.

F. Rock or stone less than 4 inches in largest dimension may be acceptable as fill below the upper 24 inches of proposed subgrade when mixed with suitable material and accepted by the Geotechnical Engineer.

G. Rock or stone less than 2 inches in largest dimension may be acceptable within the upper 24 inches of proposed subgrade when mixed with suitable material and accepted by the Geotechnical Engineer.

3.03 FILLING AND SUBGRADE PREPARATION

A. Fill areas to contours and elevations shown on Construction Drawings.

B. Place fills in continuous lifts specified herein.

C. Building pad, foundation, slab, and structural subgrade preparation are not included in this Section except where site civil work ties into the building and is specifically indicated on the Construction Drawings.

D. Improved Subgrade Treatment Areas: Where indicated on the Construction Drawings, existing fill and unsuitable materials within designated improved subgrade treatment areas shall be excavated to the top of natural weathered limestone or to depths established by the Geotechnical Engineer. Excavation shall be observed by the Geotechnical Engineer to verify removal of unsuitable materials and determine the required vertical and lateral limits of excavation. Replacement material shall consist of flexible base or alternate select fill meeting the requirements of the Geotechnical Report and Section 31 0516. Replacement material shall be placed in uniform loose lifts not exceeding 8 inches in thickness, moisture conditioned in accordance with the Geotechnical Report, and compacted to a minimum of 95 percent of maximum dry density in accordance with ASTM D698. Each lift shall be tested and accepted prior to placement of subsequent lifts. Coordinate treatment limits with adjacent building improvements and the Architectural and Structural documents.

E. Refer to Section 31 3200 for soil stabilization using lime, cement, fly ash, and geotextile fabrics.

F. Refer to Section 31 2318 for rock excavation.

G. Areas exposed by excavation or stripping and on which subgrade preparation for paving is to be performed shall be scarified, moisture conditioned, compacted, and proofrolled in accordance with the Geotechnical Report and Construction Drawings. Where not otherwise specified for pavement and site flatwork subgrade areas, scarify

and moisture-condition subgrade to the depth indicated on the Construction Drawings or recommended by the Geotechnical Report. Moisture-conditioned pavement subgrade shall be compacted to a relative compaction between 92 percent and 98 percent of maximum dry density in accordance with ASTM D698, at a moisture content between 2 percent and 6 percent above optimum moisture content, unless otherwise indicated on the Construction Drawings or recommended by the Geotechnical Engineer. These areas shall be proofrolled to detect areas of insufficient compaction. Accomplish proofrolling by making minimum of 2 complete passes with fully-loaded tandem-axle dump truck with a maximum loaded weight of 20-tons, or approved equal, in each of 2 perpendicular directions until acceptable. Excavate and recompact areas of failure as specified herein. Proofrolling shall be performed in the presence of the Geotechnical Engineer or testing laboratory representative. Areas exhibiting rutting, pumping, deflection, or instability shall be corrected as directed by the Geotechnical Engineer. Continual failure areas shall be stabilized in accordance with Section 31 3200 at no additional cost to Owner.

H. Place fill materials used in preparation of site subgrade areas in uniform loose horizontal lifts not exceeding 8 inches in uncompacted thickness, unless otherwise recommended by the Geotechnical Engineer. Each lift shall be moisture conditioned and compacted in accordance with the Geotechnical Report and Construction Drawings.

1. Flexible base used within pavement sections shall be compacted to a minimum of 95 percent of maximum dry density in accordance with ASTM D1557, at a moisture content within 3 percentage points of optimum moisture content. General and utility fill shall be compacted to a minimum of 95 percent of maximum dry density in accordance with ASTM D698, at optimum moisture content or wetter. Nonstructural backfill shall be compacted to a minimum of 90 percent of maximum dry density in accordance with ASTM D698, at a moisture content within 3 percentage points of optimum moisture content, unless otherwise indicated on the Construction Drawings or required by the governing utility provider or authority having jurisdiction.

2. Moisture-conditioned pavement subgrade shall be compacted to a relative compaction between 92 percent and 95 percent of maximum dry density in accordance with ASTM D698, at a moisture content between 2 percent and 6 percent above optimum moisture content, unless otherwise indicated on the Construction Drawings or recommended by the Geotechnical Engineer.

Fill material shall be uniform with respect to material type and moisture content. Clods, chunks, and soil aggregations shall be broken down and mixed by disking, blading, plowing, or other approved methods as necessary to obtain uniform moisture and density throughout each lift. Do not place frozen, saturated, organic, debris-laden, or otherwise unsuitable material as fill.

Following table stipulates maximum allowable values for plasticity index (PI) and liquid limit (LL) of suitable fill materials to be used in specified site areas. Unless more stringent requirements are indicated in the Geotechnical Report or Construction Drawings, suitable fill materials shall comply with the following maximum PI and LL values. Flexible base used in pavement sections, flatwork subgrade areas, utility trench restoration, and other locations indicated on the Construction Drawings shall comply with the Geotechnical Report and applicable TxDOT Item 247 requirements.

Location	PI	LL
Site Area, below upper two feet *	20	50

Site Area, upper two feet *	15	40
Paving Area, below upper two feet *	20	50
Paving Area, upper two feet *	15	40

(*References to depth are to proposed subgrade elevations)

3.04 MAINTENANCE OF SUBGRADE

A. Verify finished subgrades to ensure proper elevation and conditions for construction above subgrade.

B. Protect subgrade from excessive wheel loading during construction, including concrete trucks, dump trucks, and other construction equipment.

C. Remove areas of finished subgrade found to have insufficient compaction density to depth necessary and replace in manner that will comply with compaction requirements by use of material with CBR or LBR equal to or better than that specified in the construction drawings. Surface of subgrade after compaction shall be firm, uniform, smooth, stable, and true to grade and cross-section.

D. Construct temporary ditches and/or perform such grading as necessary to maintain positive drainage away from subgrade at all times.

E. Areas of previously tested and accepted subgrade or compacted fill exposed to measurable rainfall shall be retested by the independent testing laboratory prior to placement of additional material. Where testing indicates that previously accepted materials no longer satisfy project requirements, rework, moisture condition, and recompact the affected materials as necessary to achieve compliance.

3.05 BORROW AND SPOIL SITES

A. Contractor shall be responsible for compliance with TPDES, SWPPP, and local erosion-control permitting requirements for on-site and off-site disturbed spoil and borrow areas. Upon completion of spoil and/or borrow operations, clean up spoil and/or borrow areas in a neat and reasonable manner to the satisfaction of off-site property owner, if applicable, and Owner.

3.06 RIP-RAP

A. Subgrade: Dress slopes and other areas to be protected to line and grade shown on Construction Drawings prior to placing of rip-rap. Undercut areas to receive rip-rap to elevation equal to final elevation less average diameter of stones before placing rip-rap.

B. Bedding: Install filter fabric and bedding stone prior to placement of riprap stones. Bedding stone shall be quarried and crushed angular limestone, 6-inches in depth in accordance with Section 31 0516 and with the following gradation:

Bedding Stone

Sieve Designation	% By Weight Passing Square Mesh Sieves
3”	100
No. 4	20-65
No. 200	0-10

Filter fabric shall be as specified in Section 31 3200 and as detailed on Construction Drawings.

C. Rip-Rap: Place rip-rap in areas where indicated on Construction Drawings. Stone for rip-rap shall consist of field stone or rough unhewn quarry stone as nearly uniform in section as is practical. Stones shall be dense, resistant to action of air and water, and suitable for purpose intended. Provide stone gradation and size in accordance with Table 1 and Table 2 below.

Table 1 - In-Place Protection Riprap Gradation Requirements

Size	Maximum Size (lb.)	90% Size[1] (lb.)	50% Size[2] (lb.)	8% Size[3] Minimum (lb.)
12 in.	200	80-180	30-75	3
15 in.	320	170-300	60-165	20
18 in.	530	290-475	105-220	22
21 in.	800	460-720	175-300	25
24 in.	1,000	550-850	200-325	30
30 in.	2,600	1,150-2,250	400-900	40

1. Defined as size that 10% of the total riprap stone, by weight, is larger and 90% is smaller.
2. Defined as size that 50% of the total riprap stone, by weight, is larger and 50% is smaller.
3. Defined as size that 92% of the total riprap stone, by weight, is larger and 8% is smaller.

The Engineer may require in-place verification of the stone size. Determine the in-place size of the riprap stone by taking linear transects along riprap and measuring the intermediate axis of the stone at select intervals. Place a tape measure along the riprap and determine the intermediate axis size of the stone at 2ft. intervals. Measure a minimum of 100 stones, either in a single transect or multiple transects, then follow ASTM D5519 Test Procedure Part B to determine the gradation. Table 2 is a guide for comparing the stone size in inches to the stone weight shown in Table 1.

Table 2 - Protection Riprap Stone Size[1]

Size	Dmax (in.)	D90 (in.)	D50 (in.)	D8 (in.)
12 in.	13.76	10.14-13.29	7.31-9.92	3.39
15 in.	16.10	13.04-15.75	9.21-12.91	6.39
18 in.	19.04	15.58-18.36	11.10-14.21	6.59
21 in.	21.85	18.17-21.09	13.16-15.75	6.88
24 in.	23.53	19.28-22.29	13.76-16.18	7.31
30 in.	32.36	24.65-30.84	17.34-22.72	8.05

1. Based on a specific Gravity of 2.5 and using the following equation for the intermediate axis

$$\text{diameter } D = \{(12*W)/(Gs*62.4*0.85)\}^{1/3}$$

where:
D = intermediate axis diameter in in.; W = weight of stone in lbs.;
Gs = Specific Gravity of stone.

Note- If the Specific Gravity of the stone is different than 2.5, then the above equation can be used to determine the appropriate size using the actual Specific Gravity.

D. Place stones so that greater portion of weight is carried by earth and not by adjacent stones. Place stones in single layer with close joints. Upright areas of stone shall make angle of approximately 90 degrees with embankment slope. Place courses from bottom of embankment upward, with larger stones being placed in lower courses. Fill open joints with spalls. Embed stones in embankment as necessary to present uniform top surface such that variation between tops of adjacent stones shall not exceed 3-inches.

E. If plans call for grouting of stones, ensure that 1/2 the nominal depth of the stones is exposed and without grout so as to promote energy dissipation for drainage applications. Grout for rip rap shall consist of a flowable concrete with a minimum strength of 2000 psi at 28 days.

3.07 FINISH GRADING

A. Grade areas where finish grade elevations or contours are indicated on Construction Drawings, other than paved areas and buildings, including excavated areas, filled and transition areas, and landscaped areas. Graded areas shall be uniform and smooth, free from rock, debris, or irregular surface changes. Finished subgrade surface for structures shall not be more than 0.10 foot above or below established finished subgrade elevation measured on a 10’ by 10’ grid. Ground surfaces shall vary uniformly between indicated elevations. Verify site grades at 50’ x 50’ grids. Grade finished ditches to allow for proper drainage without ponding and in manner that will minimize erosion potential. For topsoil, sodding and seeding requirements refer to Section 32 9000.

B. Correct settled or eroded areas resulting from Contractor’s Work during the correction period established by the Contract Documents at no additional expense to Owner. Bring grades to proper elevation. Replant or replace grass, shrubs, bushes, or other vegetation that appears dead, dying, or disturbed by construction activities.

3.08 FIELD QUALITY CONTROL

A. Field density and moisture tests for in-place materials shall be performed as part of construction testing requirements in accordance with ASTM D6938, or other test methods accepted by the independent testing laboratory and Engineer. Unless otherwise required by the Geotechnical Report, Construction Drawings, or testing laboratory, field density tests shall be performed at the following minimum frequencies:

1. Building-adjacent site flatwork and site civil interface areas, where included in the Civil scope: In cut areas, not less than 1 compaction test for every 2,500 sq. ft. In fill areas, same rate of testing for each 8-inch lift, measured loose, unless otherwise required by the Geotechnical Report, Construction Drawings, or testing laboratory.

2. Areas of construction exclusive of building subgrade areas: In cut areas, not less than 1 compaction test for every 10,000 sq. ft. In fill areas, same rate of testing for each 8-inch lift, measured loose.

3. For trenches, one test at intervals not exceeding 75 feet of trench length for each 8-inch lift, measured loose.

B. Corrective measures for non-complying compaction: Remove, moisture condition, replace, and recompact deficient areas until specified compaction and moisture requirements are achieved, at no additional expense to Owner.:

END OF SECTION

SECTION 31 2316
TRENCHING AND BACKFILL

PART 1 - GENERAL

These specifications are provided as a supplement to the governing jurisdictional authority's standards and specifications. These specifications shall have precedence when no other governing guideline exists.

1.01 SECTION INCLUDES

A. Excavation of trenches for installation of utilities.

B. Backfilling trenches with bedding material as specified and filling trenches with suitable material to proposed subgrade.

C. Compacting backfill materials in acceptable manner.

D. Borings and casings under roads.

1.02 RELATED SECTIONS

A. Section 31 2300 – Excavation and Fill

B. Section 33 1100 - Water Distribution Systems

C. Section 33 3100 - Sanitary Sewer Systems

D. Section 33 3913 - Sewer Manholes, Frames, and Covers

E. Section 33 4000 - Storm Drainage

F. Section 31 0516 – Aggregates for Earthwork

G. Construction Drawings

1.03 REFERENCE STANDARDS

A. American Society for Testing and Materials (ASTM) latest edition
   1. D6913 Standard Test Methods for Particle-Size Distribution of Soils Using Sieve Analysis, or other particle-size analysis test method accepted by the independent testing laboratory and Engineer.
   2. D 698 Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN.m/m^3))
   3. D 1557 Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 Kn.m/m^3))
   4. D 2216 Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures
   5. D 2487 Classification of Soils for Engineering Purposes
   6. D6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods, or other nuclear density and moisture test methods accepted by the independent testing laboratory and Engineer.
   7. D 4318 Liquid Limit, Plastic Limit, and Plasticity Index of Soils

B. American Association of State Highway and Transportation Officials (AASHTO) latest edition
   1. T 88 Particle Size Analysis of Soils
   2. State Department of Transportation (DOT): Standard Specifications for Construction and Materials, Latest Edition

1.04 QUALITY ASSURANCE

A. An independent testing laboratory will perform testing at intervals not exceeding 75 feet of trench length for each 8-inch lift of compacted trench backfill, measured loose, and furnish copies of results as specified herein, unless otherwise required by the Geotechnical Report, Construction Drawings, testing laboratory, utility provider, or authorities having jurisdiction.

1.05 SUBMITTALS

A. Shop drawings or details pertaining to site utilities are not required unless required by regulatory authorities or unless uses of materials, methods, equipment, or procedures that are contrary to Construction Drawings or Specifications are proposed. Do not perform work until Owner has accepted required shop drawings.

B. Contact utility companies and determine if additional easements will be required to complete project. Provide written confirmation of the status of all easements to Owner at time of Preconstruction Conference or no later than 90 days prior to project possession date.

C. Submit 30-pound sample of each type of fill material from off-site borrow sources that is to be used in backfilling, in air-tight container(s), to the independent testing laboratory or submit gradation and certification of aggregate material that is to be used at the site to the independent testing laboratory for review.

1.06 PROJECT RECORD DOCUMENTS

A. Accurately record actual locations of subsurface utilities, structures, and obstructions installed or encountered.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Bedding Material: Aggregate Type as indicated on the plans and local governing authorities bedding specifications for similar construction as specified in Section 31 0516.

B. Haunching Material: As specified in Section 31 0516. Aggregate Type as indicated on the plans and local governing authority for similar construction as specified in Section 31 0516.

C. Backfill material from the site as specified in Section 31 2300 and accepted by the Engineer and Geotechnical Engineer.

D. Backfill material from off-site as specified in Section 31 2300 and accepted by the Engineer and Geotechnical Engineer.

E. Steel Casing Pipe: Comply with AWWA C200 minimum grade B, size, and wall thickness as indicated on Construction Drawings.

F. Backfill material shall not contain rock or stone with a maximum size greater than 2 inches.

2.02 LOCATOR TAPE

A. Locator tape shall be installed above all new utilities.

B. Locator tape shall be heavy duty 6" wide metallic detectable underground warning tape. Tape shall be made from polyethylene material, 5 mils thick, with a minimum tensile strength of 1,750 psi. Place the tape at one-half the minimum depth of cover for the utility line or a maximum of 3', whichever is the lesser, but never above the top of subgrade. Color of tape shall be determined by APWA Color Standards: Natural Gas or Propane - Yellow, Electric - Red, Telephone – Orange, Water – Blue, Sanitary Sewer – Green.

2.03 TRACER WIRE

A. Tracer wire shall be installed above gas lines and along trenchless utility installations, including boring, directional drilling, or pipe bursting installations, unless otherwise shown on the Construction Drawings or required by the governing utility owner.

B. Tracer wire shall be solid No. 12 AWG copper-clad steel conductor rated for direct burial, with polyethylene insulation. THHN wire, bare copper wire, stranded wire, or any other wire not intended for direct burial is not acceptable. Color of wire shall be determined by APWA Color Standards: Natural Gas or Propane – Yellow, Electric – Red, Telephone – Orange, Water – Blue, Sanitary Sewer – Green.

C. Install tracer wire continuously along the full length of the utility requiring tracer wire. Place tracer wire directly above the utility line and within the trench backfill, generally 6 inches to 12 inches above the top of pipe, unless otherwise required by the utility owner or governing authority. For trenchless installations, install tracer wire with the carrier pipe or casing in a manner that provides continuous detectability for the full length of the installation.

D. Splices shall be minimized. Where splices are necessary, use waterproof, corrosion-resistant, direct-bury splice connectors specifically manufactured for tracer wire systems. Twisting wires together, wire nuts, electrical tape, or non-waterproof connectors are not acceptable.

E. Terminate tracer wire at accessible above-grade or at-grade locations, including valve boxes, meter boxes, cleanouts, test stations, or other approved access points as shown on the Construction Drawings or required by the utility owner. Provide sufficient slack at fittings, valves, bends, service connections, and termination points to prevent strain or damage during backfill and future maintenance.

F. Prior to final acceptance, Contractor shall demonstrate electrical continuity of the tracer wire system. Repair breaks, failed splices, or discontinuities at no additional cost to Owner.

G. Where utility owner or governing authority requirements are more stringent than this specification, comply with the more stringent requirement.

2.04 EQUIPMENT

A. Transport off-site materials to project using well-maintained and operating vehicles. Once on site, transporting vehicles shall stay on designated haul roads and shall at no time endanger improvements by rutting, overloading, or pumping.

PART 3 - EXECUTION

3.01 PREPARATION

A. Set lines, elevations, and grades for proposed systems.

B. Protect benchmarks, property corners, and other survey monuments from damage or displacement. If marker needs to be removed it shall be referenced by licensed land surveyor and replaced, as necessary, by same.

C. Maintain in operating condition existing utilities, previously installed utilities, and drainage systems encountered in utility installation. Repair surface or subsurface improvements shown on Construction Drawings.

D. Verify location, size, elevation, and other pertinent data required making connections to existing utilities and drainage systems as indicated on Construction Drawings.

E. Over excavate and properly prepare areas of subgrade that are not capable of supporting proposed systems. Stabilize these areas by using acceptable geotextile fabrics or additional bedding material placed and compacted as specified in Section 31 3200.

F. Provide dewatering systems as required for utility excavations. Dewatering systems shall comply with requirements of Section 31 2300.

3.02 EXCAVATION

A. Contact local utility companies before excavation begins. Dig trench at proper width and depth for laying pipe, conduit, or cable. Cut trench banks vertical, if possible, and remove stones from bottom of trench as necessary to avoid point-bearing. Over excavate wet or unstable soil, if encountered, from trench bottom as necessary to provide suitable base for continuous and uniform bedding. Utility excavations may encounter limestone at relatively shallow depths. Contractor shall anticipate variable limestone excavation conditions, potential overbreak, large blocks or chunks, and difficult excavation where intact limestone is encountered. Rock excavation shall comply with Section 31 2318 – Rock Excavation. Where granular bedding, trench backfill, or limestone backfill may convey water along the trench, provide water control, drainage, or discharge measures as indicated on the Construction Drawings or as directed by the Engineer.

B. Trench excavation sidewalls shall be sloped, shored, sheeted, braced, or otherwise supported by means of sufficient strength to protect workmen in accordance with applicable rules and regulations established for construction by the Department of Labor, Occupational Safety and Health Administration (OSHA), and by local ordinances. Lateral travel distance to exit ladder or steps shall not be greater than 25-feet in trenches 4-feet or deeper.

C. Perform excavation as indicated on Construction Drawings for specified depths. During excavation, stockpile materials suitable for backfilling in orderly manner far enough from bank of trench to avoid overloading, slides, or cave-ins.

D. Remove excavated materials not required or not suitable for backfill or embankments and waste off site or at on-site locations approved by the Owner and in accordance with governing regulations.

E. Prevent surface water from flowing into trenches or other excavations by temporary grading or other methods, as required. Remove accumulated water in trenches and other excavations.

F. Open cut excavation with trenching machine or backhoe. Where machines other than ladder or wheel-type

trenching machines are used, do not use clods for backfill. Dispose of unsuitable material and provide other suitable material at no additional cost to Owner.

G. Excavated material containing dirt clods greater than 8-inches in largest dimension is unacceptable as fill. Clods and chunks of materials should be broken and the fill material mixed by disking, blading, or plowing, as necessary, so that a material of uniform moisture and density is obtained for each lift.

H. Accurately grade trench bottom to provide uniform bearing and support for each section of pipe on bedding material at every point along entire length, except where necessary to excavate for bell holes, proper sealing of pipe joints, or other required connections. Dig bell holes and depressions for joints after trench bottom has been graded. Dig no deeper, longer, or wider than needed to make joint connection properly.

I. For pipes 12-inches in diameter or smaller, total trench width below top of pipe shall be the outside diameter plus not less than 12-inches nor more than 18-inches with the pipe or conduit that is to be installed to designated elevations and grades centered in the trench. For pipe diameters greater than 12-inches, trench width below the top of pipe shall be wide enough to accommodate workmen and equipment but not less than 18-inches. Other trench width for pipe, conduit, or cable shall be least practical width that will allow for proper compaction of trench backfill.

J. Trench depth requirements measured from finished grade or paved surface shall meet the following requirements or applicable codes and ordinances, whichever is more stringent:

1. Water Mains: 36-inches to top of pipe barrel or 6-inches below frost line, established by local building official, whichever is deeper.
2. Sanitary Sewer: Elevations and grades as indicated on Construction Drawings.
3. Storm Sewer: Elevations and grades as indicated on Construction Drawings.
4. Electrical Conduits: 24-inches minimum to top of conduit or as required by NEC 300-5, NEC 710-36 codes, or local utility company requirements, whichever is deeper.
5. TV Conduits: 18-inches minimum to top of conduit or as required by local utility company, whichever is deeper.
6. Telephone Conduits: 18-inches minimum to top of conduit, or as required by local utility company, whichever is deeper.
7. Gas Mains and Service: 30-inches minimum to top of pipe, or as required by local utility company, whichever is deeper.

3.03 PIPE BEDDING

A. Accurately cut trenches for pipe or conduit that is to be installed to designated elevations. Place a minimum of 4 inches of bedding material, compact in bottom of trench, and accurately shape to conform to lower portion of pipe barrel.

B. Place geotextile fabric as specified on Construction Drawings.

3.04 BACKFILLING

A. Criteria: Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities. If improperly backfilled, reopen to depth required to obtain proper compaction. Backfill and compact, as specified herein, to properly correct the condition in an acceptable manner.

B. Backfilling: After pipe or conduit has been installed, bedded, and tested as required, backfill trench or structure excavation with specified material placed as given in the Construction Documents.

C. Backfill trenches to contours and elevations shown on Construction Drawings with unfrozen materials.

D. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen, or spongy subgrade surfaces.

E. Where trench backfill conditions may intercept, collect, or convey subsurface water, Contractor shall notify the Engineer before proceeding with final backfill. Provide trench plugs, drains, daylight outlets, or other water-control measures only where indicated on the Construction Drawings or directed by the Engineer.

F. Where utility trenches extend through designated improved subgrade treatment areas, coordinate trench excavation, bedding, backfill materials, and compaction requirements with Section 31 2300, the Construction Drawings, and the Geotechnical Report. Restore the trench with materials and compaction consistent with the surrounding improved subgrade treatment so that the continuity and performance of the treatment envelope are maintained. Do not introduce unapproved excavated material into the improved subgrade treatment area.

3.05 COMPACTION

A. Exercise proper caution when compacting immediately over top of pipes or conduits. Water jetting or flooding is not permitted as method of compaction.

B. Trench backfill shall be moisture conditioned and compacted in accordance with Section 31 2300, the Geotechnical Report, Construction Drawings, and applicable utility-provider requirements. General utility fill shall be compacted to a minimum of 95 percent of maximum dry density in accordance with ASTM D698, at optimum moisture content or wetter, unless more stringent requirements apply.

C. Materials used for backfill shall comply with requirements of Section 31 0516 and as specified herein.

3.06 BORINGS AND CASINGS UNDER ROADS, HIGHWAYS, AND RAILROAD CROSSINGS

A. When indicated by Construction Drawings, street, road, highway, or railroad crossings for utility mains installed by jacking and boring method shall be in accordance with area specifications and governing authorities.

B. Excavation of approach pits and trenches within right-of-way of street, road, highway, or railroad shall be of sufficient distance from paving or railroad tracks to permit traffic to pass without interference. Tamp backfill for approach pits and trenches within right-of-way in layers not greater than 6-inches thick for entire length and depth of trench or pit. Compact backfill to 98 percent of maximum dry density in accordance with ASTM D698, at moisture content required by Section 31 2300, the Geotechnical Report, Construction Drawings, utility provider, or authorities having jurisdiction, whichever is more stringent. Mechanical tampers may be used after cover of 6 inches has been obtained over top of barrel of pipe.

C. Accomplish boring operation using commercial type boring rig. Bore hole to proper alignment and grade. Bore hole shall be within 2-inches of same diameter as largest outside joint diameter of pipe installed. Install pipe in hole immediately after bore has been made and in no instance shall hole be left unattended while open.

D. In event subsurface operations result in failure or damage to pavement within 1 year of construction, make necessary repairs to pavement at no additional cost to Owner. If paving cracks on either side of pipe line or is otherwise disturbed or broken due to construction operations, repair or replace disturbed or broken area at no additional cost to Owner.

E. Clean, prime, and line interior and exterior of casing pipe with two coats of asphalt in accordance with area specifications and governing authorities.

F. Butt weld steel casing. Welds shall be full penetration single butt-welds in accordance with AWWA C206 and AWS D7-0-62.

G. Install casing and utility pipe with end seals, vent pipe, and other special equipment in accordance with area specifications and governing authorities.

END OF SECTION

SECTION 32 1400
UNIT PAVING

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes the following:
   1. Concrete unit pavers set in aggregate setting bed over 4”-6” depth concrete base.

1.02 SUBMITTALS

A. Product data for the following:
   1. Pavers
   2. Labyrinth Paver Kit
   3. Joint Sand
   4. Paver Restraint

1.03 QUALITY ASSURANCE

A. Mockups: Build mockups for each form and pattern of unit paver. Mockups shall be minimum 5’ x 5’.
   1. Approved mockups may become part of the completed work if undisturbed at time of substantial completion.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store pavers on elevated platforms in a dry location. If units are not stores in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied.
B. Store cementitious materials on elevated platforms, under cover, and in a dry location, do not use cementitious materials that have become damp.
C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
D. Store liquids in tightly closed containers protected from freezing.

1.05 PROJECT CONDITIONS

A. Cold-weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

B. Weather Limitations for Mortar and Grout:
   1. Cold-weather Requirements: Protect unit paver work against freezing when ambient temperature is 40 degrees Fahrenheit and falling. Heat materials to provide mortar and grout temperatures between 40 and 120 degrees Fahrenheit. Provide the following protection for completed portions of work for 24 hours after installation when the mean daily air temperature is as indicated: below 40 degrees Fahrenheit, cover with weather-resistant membrane; below 25 degrees Fahrenheit. Cover with insulating blankets; below 20 degrees Fahrenheit, provide enclosure and temporary heat to maintain temperature above 32 degrees Fahrenheit.

   2. Hot-weather Requirements: Protect unit paver work when temperature and humidity conditions produce excessive evaporation of setting beds and grout. Provide artificial

shade and windbreaks and use cooled materials as required. Do not apply mortar to substrates with temperatures of 100 degrees Fahrenheit or higher.

a. When ambient temperature exceeds 100 degrees Fahrenheit, or when wind velocity exceeds 8 mph and ambient temperature exceeds 90 degrees Fahrenheit, set pavers within 1 min. of spreading setting-bed mortar.

PART 2 - PRODUCTS

2.01 CONCRETE UNIT PAVERS

A. Concrete Unit Pavers: Light-duty paving brick; ASTM C 936. Provide pavers without frogs or cores in surfaces exposed to view in the completed work.
   1. Basis of Design Product: the design for pavers is based on Keystone Hardscape pavers.
      a. Keystone Hardscapes, rep. David Hasness, 512-787-1247, or approved equal.
   2. Products:
      a. Holland Stone Heritage Series Paver:
         - Size: 8” x 4” nominal.
         - Pattern: 8” wide soldier border with herringbone field.
         - Color: Tan
         - Finish: 50% Arctex, 50% Standard
   3. Sand filled joints.

2.02 LABYRINTH PAVER KIT

A. Concrete Unit Pavers: Light-duty paving brick; ASTM C 936. Provide pavers without frogs or cores in surfaces exposed to view in the completed work.
   1. Basis of Design Product: the design for pavers is based on The Labyrinth Company.
      a. Info@LabyrinthCompany.com, 3 Payne St | Greenville SC 29601, 1-888-715-2297, or approved equal.
   2. Products:
      a. Model: Chelsea à la Chartres
         - Thickness: 2-3/8”
         - Field Color: Buff*
         - Line Color: Charcoal*
   3. Sand-fill joints.
   4. *Provide paver sample colors for final approval by owner and landscape architect.
   5. Reference 1.03 for mock-up requirement.

2.03 AGGREGATE SETTING-BED MATERIALS

A. Sand for Joints: Fine, sharp, washed natural sand or crushed stone with 100% passing No. 16 sieve and no more than 10% passing No. 200 sieve.
   1. Provide sand of color needed to produce required joint color.

2.04 PAVER RESTRAINT

A. Paver Restraint: Asphalt Edge Aluminum Restraint as supplied by Permaloc or approved equal.
   1. Size: 3” high x 3” wide x 8’ long with 4” sliding connector
   2. Finish: mill (natural aluminum)
   3. Anchors: 3/4” x 2 1/2” galvanized fasteners

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas indicated to receive paving, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPERATION

A. Remove substances from concrete substrates that could impair mortar bond, including curing and sealing compounds, form oil, and laitance.
B. Clean concrete substrates to remove dirt, dust, debris, and loose particles.

3.03 INSTALLATION, GENERAL

A. Do not use unit pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.
B. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.
C. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
    1. For concrete pavers, a block splitter may be used.
D. Joint Pattern: As indicated on paving schedule.
E. Tolerances: Do not exceed 1/16” unit-to-unit offset from flush (lippage) or 1/8” in 24” and 1/4” in 10’ from level, or indicated slope, for finished surface of paving.
F. Expansion and Control Joint: Provide joint filler at locations and of widths indicated. Install joint filler before setting pavers. Make top of joint filler flush with top pavers.
G. Provide edge restraints as indicated. Install edge restraints before placing unit pavers.
    1. Where pavers set in mortar bed are indicated as edge restraints for pavers set in aggregate setting bed, install pavers set in mortar and allow mortar to cure before placing aggregate setting bed and remainder of pavers. Cut off mortar bed at a steep angle so it will not interfere with aggregate setting bed.

3.04 AGGREATE SETTING-BED APPLICATIONS

A. Place leveling course and screed to a thickness of 1 to 1-1/2”, ensuring that moisture content remains constant and density is loose and constant until pavers are set and compacted.
B. Set pavers with a minimum joint width of 1/16” and a maximum of 1/8”, being careful not disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars. Use string lines to keep straight lines. Fill gaps between units that exceed 3/8” with pieces cut to fit from full size unit pavers.
    1. When installation is performed with mechanical equipment, use only unit pavers with spacer bars on sides of each unit.
C. Vibrate pavers into leveling course with a low amplitude plate vibrator capable of a 3500 to 5000 lbf compaction force at 80 to 90 Hz. Perform at least three (3) passes across paving with vibrator. Vibrate under the following conditions:
    1. After edge pavers are installed and there is a completed surface or before surface is exposed to rain.

2. Before ending each day's work, fully compact installed concrete pavers to within 36" of the laying face. Cover pavers that have not been compacted and leveling course on which pavers have not been placed, with non-staining plastic sheets to protect them from rain.

D. Spread dry sand and fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.
E. Do not allow traffic on installed pavers until sand has been vibrated into joints.
F. Repeat joint filling process 30 days later.

3.05 REPAIRING AND CLEANING

A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.
B. Cleaning: remove excess sand from the exposed paver surfaces; wash and scrub clean all paver areas.

END OF SECTION 32 1400

NEW CONSTRUCTION: FIRE BUILDING 2

PRIMARY OCCUPANCY: GROUP E **TYPE:** II-B
ALLOWABLE HEIGHT: 85 FEET (SPRINKLERED)
TOTAL HEIGHT PROVIDED: 47' - 3"
ALLOWABLE NUMBER OF STORIES: 4
ALLOWABLE AREA FACTOR:
(NS) NON-SPRINKLERED: 26,500 S.F
(SM) MULTI-STORY, SPRINKLERED: 43,500 S.F.
TABULAR AREA (Aa) IN ACCORDANCE WITH TABLE 506.2

TOTAL AREA ALLOWED PER STORY: 43,500

TOTAL BUILDING AREA PROVIDED:
FIRST FLOOR: 26,984 S.F.
SECOND FLOOR: 26,535 S.F.
CANOPY & ROOF OVERHANG: 3,627 S.F.
TOTAL BUILDING AREA: 57,146 S.F.

OCCUPANT LOAD WITHIN FIRE BUILDING (FB):
FIRST FLOOR OCCUPANT LOAD: 1248 OCCUPANTS
SECOND FLOOR OCCUPANT LOAD: 989 OCCUPANTS
TOTAL OCCUPANT LOAD: 2237 OCCUPANTS

EGRESS CAPACITY:
FIRST FLOOR REQUIRED: 188 INCHES
FIRST FLOOR PROVIDED: 224 INCHES
SECOND FLOOR REQUIRED: 197.8 INCHES
SECOND FLOOR PROVIDED: 262 INCHES

BUILDING 2 CALCULATIONS PER IBC 2021

NEW CONSTRUCTION: FIRE BUILDING 1

PRIMARY OCCUPANCY: GROUP E **TYPE:** II-B
ALLOWABLE HEIGHT: 85 FEET (SPRINKLERED)
TOTAL HEIGHT PROVIDED: 47' - 3"
ALLOWABLE NUMBER OF STORIES: 4
ALLOWABLE AREA FACTOR:
(NS) NON-SPRINKLERED: 26,500 S.F
(SM) MULTI-STORY, SPRINKLERED: 43,500 S.F.
TABULAR AREA (Aa) IN ACCORDANCE WITH TABLE 506.2

TOTAL FRONTAGE INCREASE ALLOWED: 109,040 SQ. FT.
IBC 2018, TABLE 506.3.3
PERCENTAGE OF BUILDING PERIMETER =
If= OPEN SPACE (20'-25') OR (25'-30') OR (30' OR GREATER) = .63

TOTAL AREA ALLOWED PER STORY: 52,657 SQ. FT.

SINGLE-OCCUPANCY, MULTISTORY
Aa = [At + (NS x If)] x Sa
At =43,500 NS=14,500 If = .63 SA=2
Aa = 105,314

TOTAL BUILDING AREA PROVIDED:
FIRST FLOOR: 46,059 S.F.
SECOND FLOOR: 18,106 S.F.
CANOPY & ROOF OVERHANG: 6,358 S.F.
TOTAL BUILDING AREA: 70,523 S.F.

OCCUPANT LOAD WITHIN FIRE BUILDING (FB):
FIRST FLOOR OCCUPANT LOAD: 2190 OCCUPANTS
SECOND FLOOR OCCUPANT LOAD: 594 OCCUPANTS
TOTAL OCCUPANT LOAD: 2784 OCCUPANTS

EGRESS CAPACITY:
FIRST FLOOR REQUIRED: 329 INCHES
FIRST FLOOR PROVIDED: 812 INCHES
SECOND FLOOR REQUIRED: 118.8 INCHES
SECOND FLOOR PROVIDED: 763 INCHES

BUILDING 1 CALCULATIONS PER IBC 2021

EGRESS (SPRINKLERED)

1. PAIR OF 3'-0" DOOR (68" CLR) AT 0.15" / OCCUPANT = 453 OCCUPANTS
2. 3'-0" DOOR (32" CLR) AT 0.15" / OCCUPANT = 213 OCCUPANTS
3. 4'-0" DOOR (44" CLR) AT 0.15"/OCCUPANT = 293 OCCUPANTS
- S1. 7'-3" STAIR W CENTRAL RAIL (87" CLEAR WIDTH) AT 0.2"/OCCUPANT = 435 OCCUPANTS
- S2. 10'-0" STAIR W CENTRAL RAIL (90" CLEAR WIDTH) AT 0.2"/OCCUPANT = 450

EGRESS FACTORS LEGEND

TOTAL NO. OF OCCUPANTS (TEA) = 3905

CLASSIFICATION	OCCUPANTS MALE / FEMALE	WATER CLOSETS MALE / FEMALE	LAVATORIES	DRINKING FOUNTAIN
A-2 ASSEMBLY (U) UNCONCENTRATED	1051 / 1051	1 PER 75 / 1 PER 75 14.01 / 14.01	1 PER 200 10.51	1 PER 500 4.20
A-3 ASSEMBLY (C) UNCONCENTRATED	95 / 95	1 PER 125 / 1 PER 65 .76 / 1.45	1 PER 200 .29	1 PER 500 .11
B BUSINESS	28 / 28	1 PER 25 / 1 PER 25** 1.10 /1.10	1 PER 40*** 1.38	1 PER 100 .55
E EDUCATION - TEA	756 / 756	1 PER 50 / 1 PER 50 15.11 / 15.11	1 PER 50 30.22	1 PER 100 15.17
S STORAGE	25 / 25	1 PER 100 / 1 PER 100 .25 / .25	1 PER 100 .49	1 PER 1000 .05
TOTAL	REQUIRED **PROVIDED**	31 / 32 **34 / 32**	44 **55**	20 **20**

* FOR THE FIRST 1,500 & 1 PER 120 FOR REMAINDER EXCEEDING 1,500
** FOR THE FIRST 50 & 1 PER 50 FOR THE REMAINDER EXCEEDING 50
*** FOR THE FIRST 80 & 1 PER 80 FOR THE REMAINDER EXCEEDING 80

PLUMBING FIXTURE REQUIREMENTS

THE EMERGENCY ACCESS LOCK BOX(ES) SHALL BE AS SPECIFIED. REFER TO SPECIFICATIONS SECTION 10 4400. BOTTOM ELEVATION OF BOX SHALL BE 6'-0" ABOVE GROUND LEVEL (VERIFY WITH FIRE MARSHAL)

FIREMAN'S EMERGENCY LOCK BOX(ES)

1 HR. FIRE BARRIER
2 HR. FIRE BARRIER
2 HR. FIRE WALL

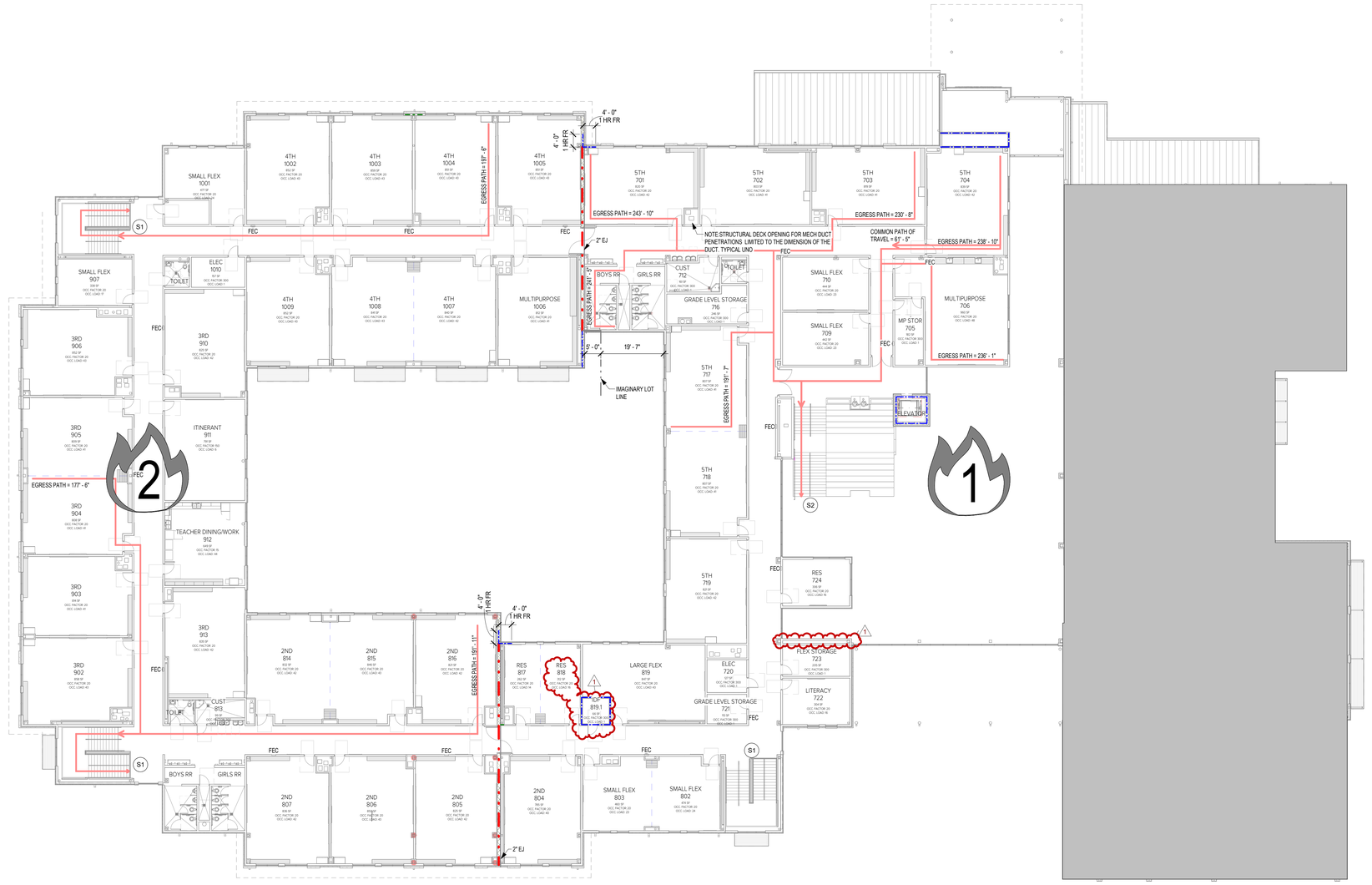
WALLS SHALL MEET ALL CODE REQUIREMENTS FOR RATED CONSTRUCTION. WINDOW ASSEMBLIES SHALL COMPLY WITH IBC AND BE U.L. LABELED. DOORS SHALL HAVE CLOSERS, BE U.L. LABELED, AND RATED AS SCHEDULED.

FIRE RATED CONSTRUCTION LEGEND

COUNTY: WILLIAMSON
CLIMATE ZONE: 2A

THE I.E.C.C. ESTABLISHES THE REQUIREMENTS FOR INSULATING THE BUILDING. THE MINIMUM REQUIREMENTS THAT ARE ACCEPTABLE (FOR STANDARD OCCUPIED BUILDINGS) ARE: ROOF= R-25ci, MASS WALLS= R-5.7ci, MTL FRAMED= R-13 + R-5ci, FLOOR= R-6.3ci

ENERGY CODE R VALUES



1 CODE ANALYSIS PLAN - LEVEL 2
1/16" = 1'-0"

PLAN
N TRUE

INFORMATION PROVIDED FOR CODE COMPLIANCE EVALUATION; NOT TO BE USED FOR BIDDING PURPOSES.

1) PROJECT IDENTIFICATION
A. OWNER: JARRELL I.S.D.
B. PROJECT NAME: ATLAS RANCH ELEMENTARY SCHOOL
C. PHYSICAL ADDRESS: JARRELL, TEXAS

2) STUDENT CAPACITY
A. TOTAL STUDENT CAPACITY: 1000
B. GRADES SERVED: PRE-K- 5TH GRADE

3) FACULTY & STAFF: 120 (ESTIMATED)

4) APPLICABLE CODES
A. INTERNATIONAL BUILDING CODE (IBC) 2018
B. INTERNATIONAL PLUMBING CODE 2018
C. INTERNATIONAL MECHANICAL CODE 2018
D. NATIONAL ELECTRICAL CODE (NEC) 2026
E. INTERNATIONAL FIRE CODE 2021
F. ELIMINATION OF ARCHITECTURAL BARRIERS ACT; TEXAS DEPT. OF LICENSING AND REGULATION
G. INTERNATIONAL ENERGY CONSERVATION CODE 2018
H. LOCAL AMENDMENTS

5) OCCUPANCY CLASSIFICATION
A. OCCUPANCY: GROUP E
B. SEPARATED USES: NONE
C. INCIDENTAL USE AREAS: RATED PER TABLE 509
D. ACCESSORY OCCUPANCIES

6) TYPE OF CONSTRUCTION / FIRE-RESISTIVE REQUIREMENTS
A. CONSTRUCTION TYPE: II-B

TABLE 601	
BUILDING ELEMENT	TYPE II B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NON-BEARING WALLS & PARTITIONS (EXTERIOR)	0
NON-BEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION & SECONDARY MEMBERS	0

REFER TO STRUCTURAL DRAWINGS FOR LOAD-BEARING WALL DESIGNATIONS. LOAD-BEARING WALL FIRE RATING IS FOR STRUCTURAL INTEGRITY PURPOSES ONLY, NOT FOR FIRE-SEPARATION PURPOSES, THEREFORE NO ASSOCIATED OPENINGS ARE REQUIRED TO BE FIRE-PROTECTED UNLESS REQUIRED TO BE SO BY OTHER CODE PROVISIONS AND/OR AS SHOWN ON THESE DOCUMENTS.

7) FIRE-PROTECTION SYSTEMS
A. AUTOMATIC SPRINKLER SYSTEM: YES
B. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER INTERNATIONAL FIRE CODE
C. FIRE ALARM PROVIDED: YES
D. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED: YES

8) EXIT REQUIREMENTS
A. TRAVEL DISTANCES
1. ALLOWED, SPRINKLERED BUILDING:
TO EXIT FROM WITHIN A SPACE FOR OCCUPANCY LOAD GREATER THAN 50 = 250 FT.
TO EXIT FROM WITHIN BUILDING = 250 FT.
COMMON PATH OF EGRESS TRAVEL = 75 FT.
2. ACTUAL - REFER TO PLAN FOR PATHS & DISTANCE

B. OCCUPANT LOAD CALCULATION:
FIRST FLOOR: 3,437
SECOND FLOOR: 1,583
TOTAL BUILDING OCCUPANCY: **5,020**

9) TOTAL BUILDING AREA:
FIRST FLOOR: 73,044 S.F.
SECOND FLOOR: 44,641 S.F.
TOTAL FIRST & SECOND FLOOR: 117,685 S.F.
CANOPY & ROOF OVERHANG COVER: 9,985 S.F.

TOTAL BUILDING AREA: 127,670 S.F.

BUILDING DESIGN CRITERIA

1. THIS CODE ANALYSIS PLAN IS PROVIDED AS A TOOL FOR VIEWING THE OVERALL CODE COMPLIANCE FOR THE ENTIRE FACILITY. WHILE STATED U.L. RATINGS REQUIRED THROUGH WALLS MUST BE MET, ALL CONTRACTORS MUST CONSTRUCT THIS FACILITY FROM THE MATERIALS AND IN THE DIMENSIONS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. ANY APPARENT CONFLICT SHALL BE RESOLVED WITH THE ARCHITECT.
2. FIRE RATED WALLS NOT DESIGNED TO EXTEND ABOVE ROOF LEVEL SHALL EXTEND TO THE ROOF DECK WITH U.L. APPROVED CLOSURE TO THE DECK U.N.O.
3. ALL PENETRATIONS OF FIRE RATED WALLS SHALL BE CLOSED WITH CODE APPROVED METHODS AND MATERIALS TO MAINTAIN THE SPECIFIED RATING, INCLUDING FIRE TREATED BLOCKING / PLYWD.
4. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR FIRE AND SMOKE DAMPERS.
5. REFER TO G3 SHEETS FOR TYP WALL CONSTRUCTION DETAILS.
6. SQUARE FOOT (SF) AREAS INDICATED ARE FOR CODE ANALYSIS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AREAS FOR CONSTRUCTION PURPOSES.

CODE ANALYSIS PLAN NOTES

1 HR STUD W GYP: UL # U465
1 HR SHAFT WALL: UL #469
1 HR ROOF ASSEMBLY: UL #P701
COLUMNS: UL # X771
BEAMS: UL # N852
FLOOR PERIMETER FIRE CONTAINMENT: UL # CN-D-1015
CONCRETE / CMU PARTITION HEAD: UL # HW-D-0026

TYPICAL UL RATED ASSEMBLY NUMBERS

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Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
BRADLEY ANDREW HUCKABEE
83557
STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

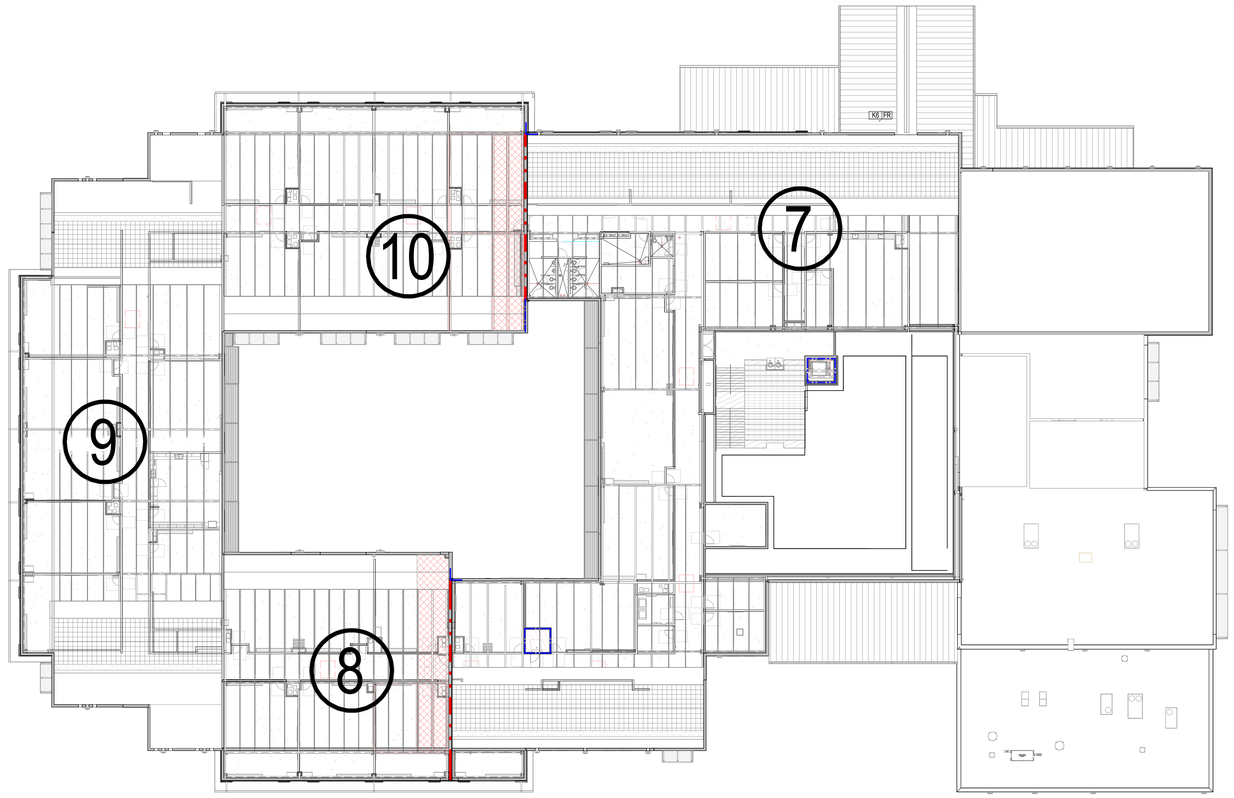
CODE ANALYSIS PLAN - LEVEL 2

Job No. 01949-04-01	Sheet No. G2.02
Drawn By: AMT	
Date: 10/08/2026	

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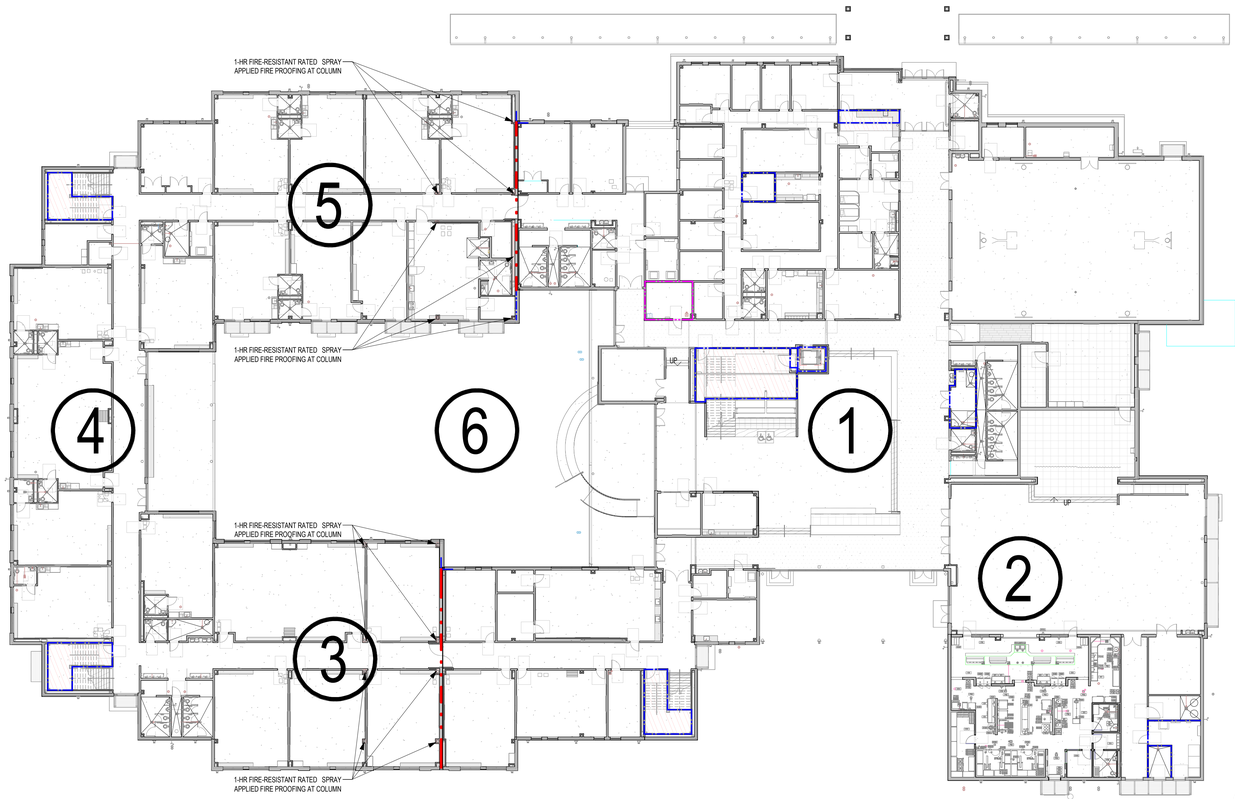
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PLAN N TRUE N

2 MASTER PLAN - LEVEL 2 - FIREPROOFING PLAN
3/64" = 1'-0"



PLAN N TRUE N

1 MASTER PLAN - LEVEL 1 - FIREPROOFING PLAN
3/64" = 1'-0"

RATED CEILING ASSEMBLY

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. FIRE RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. FIRE RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

1-HR SPRAY FIREPROOF PRIMARY STRUCTURAL FRAMING AND ROOF CONSTRUCTION (FRAMING AND DECK) WITH UL-COMPLIANT SPRAY-APPLIED FIREPROOFING

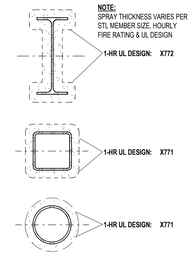
TYP FIREPROOFING NOTES

1. CONTRACTOR HAS OPTION TO SUBMIT ALTERNATIVE UL ASSEMBLIES FOR REVIEW BY ARCHITECT.

FIRE PROOFING LEGEND

IN ALL MULTI-STORY CONSTRUCTION, ALL FLOOR PENETRATIONS SHALL BE CLOSED WITH CODE APPROVED METHODS AND MATERIALS TO PREVENT DRAFTS BETWEEN FLOOR LEVELS.

DRAFT PROTECTION



3 TYP COL - SPRAY-APPLIED FIRE PROOFING
1 1/2" = 1'-0"

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
ANDREW ANDERSON
25557
STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

FIRE PROOFING PLAN

Job No.	Sheet No.
01949-04-01	G2.03
Drawn By: AT	
Date: 10/08/2026	

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PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

- D — WALL TO DECK / STRUCTURE
- C — WALL TO 6" (MIN.) ABOVE CEILING
- FR — FIRE RATED WALL TO DECK / STRUCTURE
- AD — ACOUSTICAL WALL TO DECK / STRUCTURE
- GD — GYP WALL ABOVE TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU OR 6" CORE ICF
- 8 - 8" CFMF OR 7 5/8" CMU OR 8" CORE ICF
- 10 - 9 5/8" CMU OR 10" CORE ICF
- 12 - 11 5/8" CMU OR 12" CORE ICF

WALL / PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL",** AS FOLLOWS. FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   MASONRY (EXTENDS TO 4" ABOVE CEILING OR TO NEAREST 8" COURSING ABOVE 4" U.N.O.)
   WALLS/PARTITIONS - TYPE **A8**, NON-ACOUSTICAL
   COLUMN FURRING - TYPE **A6**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

3. WALL TYPES IDENTIFIED AS CMU MAY INCLUDE ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU FROM ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.) AND IDENTIFY WHICH SIDE OF A SINGLE WYTHE ACMU WALL IS THE FINISH SIDE.

4. WALL/PARTITION TYPES IDENTIFIED AS INCLUDING VENEER MAY INCLUDE BRICK, STONE, OR ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU, BRICK, STONE, OR ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.)

5. WALL/PARTITIONS INDICATED BY TAG "GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WALL/PARTITIONS INDICATED BY TAG "ACOUSTICAL GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO A ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) WITH BATT INSULATION SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WHERE INDICATED BY THE FIRE CODE PLAN TO BE FIRE RATED, ALL CONNECTIONS SHALL MEET RATING REQUIREMENTS.

6. FIRE-RATED WALL/PARTITIONS ARE INDICATED ON THE FIRE CODE PLANS ON THE G2 SHEETS. ALL GYP BOARD IN A RATED ASSEMBLY MUST BE 5/8" TYPE "X" AND CONSTRUCTION MUST MATCH THE ASSIGNED UL NUMBER. REFERENCE THE TYPE SCHEDULES ON THIS SHEET FOR UL NUMBERS WHERE APPLICABLE. SUBSTITUTE UL ASSEMBLIES MAY BE PRESENTED FOR THE CONSIDERATION OF THE ARCHITECT , BUT MUST NOT BE USED UNLESS APPROVED IN WRITING. PARTITIONS NOT IDENTIFIED AS RATED SHALL BE BUILT WITH STANDARD GYP BOARD.

7. WHERE FIRE-RATED MASONRY WALL/PARTITIONS ARE INDICATED TO EXTEND TO DECK, ANY VENEER OR ACMU MAY TERMINATE ABOVE CEILING LEVEL. THE CMU WALL/PARTITION SHALL EXTEND TO DECK WITH REGULAR CMU OF SAME THICKNESS AS THE CMU (OR ACMU) IN THE WALL ASSEMBLY.

8. ALL ACOUSTICAL GYP BD WALL/PARTITIONS REQUIRE HIGHER QUALITY CONSTRUCTION AND SHALL BE FULL HEIGHT SOUND ATTENUATING BATT INSULATION. IN ORDER TO ACHIEVE THE INDICATED STC RATING, ALL WALL/PARTITIONS ARE TO HAVE ALL PIN HOLES & VOIDS, PIPES, DUCTS, CONDUITS, ETC ACOUSTICALLY FILLED ON BOTH SIDES. ALL WALL BOXES ON BOTH SIDES OF WALL/PARTITION ARE TO HAVE ACOUSTICAL PUTTY PADS ON THE INTERIOR SIDE AS DETAILED. BOTH SIDES OF WALL/PARTITION SHALL BE SEALED TIGHT TO DECK AS DETAILED. THE FLOOR TRACK SHALL BE SET ON AN ACOUSTICAL ISOLATOR PAD.

9. ALL ACOUSTICAL CMU WALL/PARTITIONS REQUIRE A HIGHER QUALITY CONSTRUCTION, SHALL BE NORMAL WEIGHT CMU BLOCK, EXTEND TO DECK AND HAVE FULL HEAD JOINTS. ALL PENETRATIONS SHALL BE ACOUSTICALLY SEALED ON BOTH SIDES OF WALL. MORTAR JOINTS TO BE FILLED W/ NO PIN HOLES OR VOIDS. HEAD OF WALL SHALL BE SEALED TIGHT TO DECK AS DETAILED.

10. ALL COLD FORM METAL FRAMING ARE SUBJECT TO THE DESIGN OF A QUALIFIED STRUCTURAL ENGINEER. FINAL DETERMINATION OF GAUGE AND DIMENSIONS OF FRAMING WILL BE DETERMINED BY STRUCTURAL DESIGN. ENGINEERS RECOMMENDATIONS WHICH WOULD SIGNIFICANTLY IMPACT WALL THICKNESS MUST BE COORDINATED WITH THE ARCHITECT FOR ALIGNMENT PRIOR TO CONSTRUCTION.

11. REFER TO TYPICAL INTERIOR WALL/PARTITION BRACING DETAILS FOR ADDITIONAL INFORMATION REGARDING FLOOR AND DECK CONNECTIONS. FIRE-RATED WALLS SHALL USE FIRE STOPPING SEALANTS OR ASSEMBLIES WHERE THE WALL/PARTITION ABUTS THE DECK, INCLUDING MINERAL WOOL INSULATION WHERE APPLICABLE. NON-RATED PARTITIONS SHALL USE ACOUSTICAL SEALANTS AND INSULATION WHERE THE WALL/PARTITION ABUTS THE DECK.

12. FOR ANY DISCREPANCY BETWEEN WALL/PARTITION TYPES AND WALL SECTIONS, WALL SECTION SHALL SUPERCEDE.

13. NOT ALL WALL/PARTITION TYPES SHOWN WILL BE USED IN EVERY PROJECT.

INTERIOR PARTITION TYPE LEGEND

Revision /	Date	
1	11.03.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — ANDREW ANDERSON — 25557 — STATE OF TEXAS

11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

INTERIOR CFMF PARTITIONS

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
J4	3 5/8"	6 1/8"	2 HR	U411; U419	45	53
J6	6"	8 1/2"	2 HR	U411; U419	45	53

J — GYP. BD. ON CFMF - FIRE RATED

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	IBC (PRESCRIPTIVE FIRE RESISTANCE) TABLE 721.1	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
Q4	3 5/8"	--	1-2 HR	REF. IBC 721.1(2)	40	44
Q6	6"	9 5/8"	1-2 HR	REF. IBC 721.1(2)	40	44
Q8	8"	--	1-2 HR	REF. IBC 721.1(2)	40	44

Q — MP02 METAL WALL PANEL ON CFMF

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	IBC (PRESCRIPTIVE FIRE RESISTANCE) TABLE 721.1	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
P4	3 5/8"	--	1-2 HR	REF. IBC 721.1(2)	40	44
P6	6"	9 5/8"	1-2 HR	REF. IBC 721.1(2)	40	44
P8	8"	--	1-2 HR	REF. IBC 721.1(2)	40	44

P — MP01 WOOD LOOK METAL PANEL ON CFMF

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	IBC (PRESCRIPTIVE FIRE RESISTANCE) TABLE 721.1	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
N4	3 5/8"	6 1/4"	1-2 HR	REF. IBC 721.1(2)	40	44
N6	6"	6 5/8"	1-2 HR	REF. IBC 721.1(2)	40	44
N8	8"	10 5/8"	1-2 HR	REF. IBC 721.1(2)	40	44

N — MASONRY VENEER ON CFMF

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
M1	7/8"	1 1/2"	--		--	34
M2	1 5/8"	2 1/4"	--		--	34
M3	2 1/2"	3 1/8"	--		--	34
M4	3 5/8"	4 1/4"	--		--	34
M6	6"	6 5/8"	--		--	34
M8	8"	8 5/8"	--		--	34

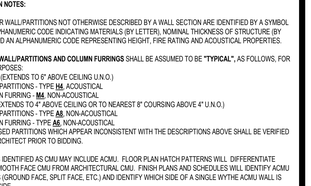
M — GYP. BD. FURRING ON CFMF

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
K3	2 1/2"	3 1/8"	1 HR	U415	37	48
K4	4"	4 5/8"	1 HR	U415	37	48
K6	6"	6 5/8"	1 HR	U415	37	48



K — GYP. BD. ON SHAFT LINER

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
H4	3 5/8"	4 7/8"		U419; U465	40	44
H4	3 5/8"	4 7/8"	1 HR	U419; U465	40	44
H6	6"	7 1/4"	-	U419; U465	40	44
H6	6"	7 1/4"	1 HR	U419; U465	40	44
H8	8"	9 1/4"	1 HR	U419; U465	40	44

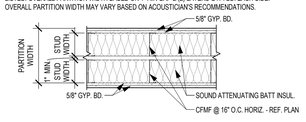


H — GYP. BD. ON CFMF

INTERIOR SOUND ASSEMBLY

WALL TYPE	STUD WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
U4	3 5/8"	10 3/4"	SEE NOTE BELOW	V488	--	50
U6	6"	1' - 3 1/2"	SEE NOTE BELOW	V488	--	50

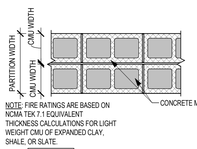
NOTE: FOR FIRE-RATED ASSEMBLIES, (1) LAYER OF GYP. BD. EACH SIDE FOR 1-HOUR ASSEMBLY; (2) LAYERS GYP. BD. FOR 2-HOUR ASSEMBLY. REPLACE ACOUSTIC BATT PER UL ASSEMBLY LISTED. OVERALL PARTITION WIDTH BASED ON 1" AIR GAP & (2) LAYERS GYP. BD. EACH SIDE. OVERALL PARTITION WIDTH MAY VARY BASED ON ACOUSTICIAN'S RECOMMENDATIONS.



U — GYP. BD. ON CFMF - SOUND / RATED ASSY.

INTERIOR CMU PARTITIONS

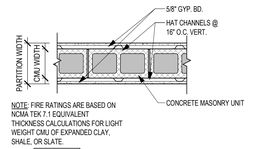
WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
D8	7 5/8"	1' - 3 5/8"	2 HR	U905	47	54
D10	9 5/8"	1' - 3 5/8"	3 HR	U904	50	57
D12	11 5/8"	1' - 11 5/8"	4 HR	U901	51	59



NOTE: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.

D — DOUBLE-WYTHE CMU

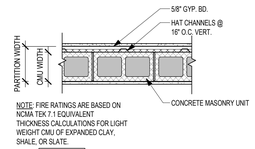
WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
C6	5 5/8"	8 5/8"	1 HR	U906	45	50
C8	7 5/8"	10 5/8"	2 HR	U905	47	54
C10	9 5/8"	1' - 0 5/8"	3 HR	U904	50	57
C12	11 5/8"	1' - 2 5/8"	4 HR	U901	51	59



NOTE: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.

C — GYP. BD. FURRING ON CMU

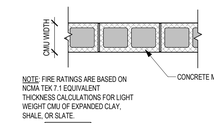
WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
B6	5 5/8"	7 1/8"	1 HR	U906	45	50
B8	7 5/8"	9 1/8"	2 HR	U905	47	54
B10	9 5/8"	11 1/8"	2 HR	U905	50	57
B12	11 5/8"	1' - 1 1/8"	2 HR	U905	51	59



NOTE: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.

B — GYP. BD. FURRING ON CMU

WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
A6	5 5/8"	5 5/8"	1 HR	U906	45	50
A8	7 5/8"	7 5/8"	2 HR	U905	47	54
A10	9 5/8"	9 5/8"	2 HR	U905	50	57
A12	11 5/8"	11 5/8"	2 HR	U905	51	59



NOTE: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.

A — SINGLE-WYTHE CMU

INTERIOR PARTITION TYPES

Job No.	Sheet No.
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Drawn By: Author	
Date: 10/08/2026	

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DIVISION 3 - CONCRETE
03 3543 - BONDED ABRASIVE POLISHED CONCRETE FLOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
COP01	CONCRETE, POLISHED						CLASS C FULL AGGREGATE EXPOSURE	AREA 1 CORRIDOR AS NOTED ON FINISH PLAN		NAME EMAIL PHONE

03 5400 - DECORATIVE CONCRETE TOPPING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
DCT01	DECORATIVE CONCRETE TOPPING									NAME EMAIL PHONE

DIVISION 4 - MASONRY
04 2000 - UNIT MASONRY

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CMU01	CONCRETE MASONRY UNIT					REF FINISH SCHEDULE				NAME EMAIL PHONE

04 4313 - STONE MASONRY VENEER

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
NS01	NATURAL STONE	UPCHURCH KIMBROUGH		SAN SABA STONE BLEND	VARIES	SPLIT FACE				NAME EMAIL PHONE
NS02	NATURAL STONE	UPCHURCH KIMBROUGH		SAN SABA STONE BLEND	VARIES; REF. DETAILS FOR PROFILE	SMOOTH		HEAD AND SILL		
NS03	NATURAL STONE	UPCHURCH KIMBROUGH		SAN SABA STONE BLEND	VARIES	SMOOTH FACE		BELOW TEACHING SURFACES AT OUTDOOR COURTYARD	1	
NS04	NATURAL THIN SET STONE	UPCHURCH KIMBROUGH		SAN SABA STONE BLEND	VARIES	SPLIT /SMOOTH FACE REF PLAN		INTERIOR PER FLOOR PLAN		

DIVISION 5 - METALS
05 5000 - METAL FABRICATIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL RAILINGS			DARK BRONZE		REF A1.34		PER FLOOR PLAN		NAME EMAIL PHONE
	METAL HANDRAILS			STAINLESS STEEL		REF A1.34		PER FLOOR PLAN		NAME EMAIL PHONE

05 5516 - METAL STAIR NOSINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL STAIR NOSINGS									NAME EMAIL PHONE

DIVISION 6 - WOOD-PLASTICS
06 4219 - PLASTIC LAMINATE FACED WOOD PANELING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PLP01	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP02	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP03	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP04	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP05	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP06	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP07	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP08	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP09	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP10	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP11	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP12	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		
PLP13	PLASTIC LAMINATE PANEL SYSTEM	WILSONART BY YOU		CUSTOM PRINTED GRAPHIC				LIBRARY LEARNING STAIRS		

06 8316 - FIBERGLASS REINFORCED PANELING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
FRP01	FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM	MARLITE	STANDARD FRP	P100 WHITE		PEBBLED		CUSTODIAL ROOMS		NAME EMAIL PHONE

DIVISION 7 - THERMAL AND MOISTURE PROTECTION
07 4113 - METAL ROOF PANEL

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MRP01	METAL ROOF PANEL	PAC CLAD - PETERSON	TITE-LOC PLUS	SILVERSMITH						NAME EMAIL PHONE

07 4213 - METAL WALL PANELS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MP01	METAL WALL PANEL	LONGBOARD		LIGHT CHERRY	6"	SMOOTH	PER MFR MAX LENGTHS, STAGGERED	PER FLOOR PLAN		RED RAMSEY RRAMSEY@LONGBOARDPRODUCTS.COM 469-927-5670
MP02	METAL WALL PANEL	PAC CLAD	HWP-12	SILVERSMITH	12"		VERTICAL	PER FLOOR PLAN		
MS01	METAL SOFFIT	LONGBOARD		LIGHT CHERRY	6"	SMOOTH	PER MFR MAX LENGTHS, STAGGERED	PER RCP		RED RAMSEY RRAMSEY@LONGBOARDPRODUCTS.COM 469-927-5670
MS02	METAL SOFFIT	PREFAB CANOPY		MATCH MS01	6"	SMOOTH	PER MFR MAX LENGTHS, STAGGERED	PER AS & RCP	PREFAB CANOPIES	
MS03	METAL SOFFIT	LONGBOARD		LIGHT CHERRY	6"	PERFORATED	PER MFR MAX LENGTHS, STAGGERED	PER RCP		RED RAMSEY

DIVISION 8 - OPENINGS
08 1113 - HOLLOW METAL DOORS AND FRAMES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
HM	HOLLOW METAL			MATCH PNT02					MATCH PNT02	NAME EMAIL PHONE

08 1116 - ALUMINUM DOORS AND FRAMES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AL	ALUMINUM			DARK BRONZE						NAME EMAIL PHONE

08 1416 - FLUSH WOOD DOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
SC	SOLID CORE (DOOR)			MATCH PL02						NAME EMAIL PHONE

08 3323 - OVERHEAD COILING DOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
OCD	OVERHEAD COILING DOORS			DARK BRONZE						NAME EMAIL PHONE

08 4313 - ALUMINUM FRAMED STOREFRONTS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AL	ALUMINUM			DARK BRONZE						NAME EMAIL PHONE

08 8000 - GLAZING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CDF01	CUSTOM DIGITAL FILM									NAME EMAIL PHONE
DWF01	DECORATIVE WINDOW FILM			COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL						NAME EMAIL PHONE

DIVISION 9 - FINISHES
09 3000 - TILING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BCT	BASE, COVE FLOOR-TO-WALL TRANSITION	SCHLUTER								NAME EMAIL PHONE
BT01	BASE, TILE, CERAMIC	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED		NAME EMAIL PHONE
TC01	TILE, CERAMIC	AMERICAN OLEAN	COLOR STORY WALL	STABLE 0052	8"x24"	MATTE	HORIZONTAL STACK	RESTROOM WALL MAIN FIELD		KIM SAUSER KSAUSER@BPITEAM.COM 281-773-4929
TC02	TILE, CERAMIC	DESIGN AND DIRECT SOURCE	CEV PALOMA	CARAMEL	2"x8"	GLOSSY	BASKETWEAVE	GIRLS RESTROOM ACCENT		GABRIELA MOOTZ GABRIELA@DESIGNANDDIRECTSOURCE.COM
TC03	TILE, CERAMIC	DESIGN AND DIRECT SOURCE	CEV PALOMA	LAPIS	2"x8"	GLOSSY	BASKETWEAVE	BOYS RESTROOM ACCENT		GABRIELA MOOTZ GABRIELA@DESIGNANDDIRECTSOURCE.COM
TC04	TILE, CERAMIC	DESIGN AND DIRECT SOURCE	CEV PALOMA	PINE	2"x8"	GLOSSY	BASKETWEAVE	DRINKING FOUNTAIN ACCENT		GABRIELA MOOTZ GABRIELA@DESIGNANDDIRECTSOURCE.COM
TC05	TILE, CERAMIC	DALTILE	MEMOIR	JEWEL BLACK	12"x12"			TEACHER DINING/WORK		EVELYN IACOBUCCI EVELYN.IACOBUCCI@DALTILE.COM
TP01	TILE, PORCELAIN	DALTILE	VOLUME 1.0	ACCENT BROWN	12"x24"	MATTE	1/3 OFFSET BOND	RESTROOM FLOOR		EVELYN IACOBUCCI EVELYN.IACOBUCCI@DALTILE.COM
TP02	TILE, PORCELAIN	DALTILE	SYNCHRONIC	TAUPE SY32	12"x24"	MATTE	HORIZONTAL STACK	WAINSCOT		EVELYN IACOBUCCI EVELYN.IACOBUCCI@DALTILE.COM
TP03	TILE, PORCELAIN	DALTILE	SYNCHRONIC	TAUPE SY32	1"x6"	MATTE	HORIZONTAL STACK	WAINSCOT ACCENT		EVELYN IACOBUCCI EVELYN.IACOBUCCI@DALTILE.COM

09 5100 - ACOUSTICAL CEILINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
L1	LAY-IN SUSPENDED CEILING	ARMSTRONG	FINE FISSURED 1713	WHITE	24" x 24"			GENERAL USE	STANDARD	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491
L1B	LAY-IN SUSPENDED CEILING	ARMSTRONG	FINE FISSURED 1713	BLACK	24" x 24"	BLACK TILE AND GRID		PLATFORM	STANDARD (BLACK) - ALL MEP AND T DEVICES IN THIS AREA TO BE FINISHED IN BLACK MATTE FINISH; U.N.O.	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491
L4	LAY-IN SUSPENDED CEILING	ARMSTRONG	KITCHEN ZONE 673	WHITE	24" x 24"			KITCHEN & SERVING LINE	VINYL COVERED (FOOD SERVICE)	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491
L6	LAY-IN SUSPENDED CEILING	ARMSTRONG	OPTIMA 3159	WHITE	24" x 24"			MUSIC ROOM	ACOUSTICAL 'ABSORPTIVE' (GLASS FIBER)	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491
L7	LAY-IN SUSPENDED CEILING	ARMSTRONG	CALLA 2820	WHITE	24" x 24"			LIBRARY	ACOUSTICAL 'ABSORPTIVE' - GEN. USE	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491
L8	LAY-IN SUSPENDED CEILING	ARMSTRONG	FINE FISSURED 1831	WHITE	24" x 24"				UL FIRE RESISTANT	MADELINE BRZOSTEK MBRZOSTEK@ARMSTRONGCEILINGS.COM 832-993-4491

09 5450 - LINEAR METAL CEILING SYSTEM

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
LCS01	LINEAR CEILING SYSTEM	LONGBOARD	ENDURA LINEAR	LIGHT CHERRY	6" S					

09 6429 - WOOD STRIP AND PLANK FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WD01	HARDWOOD		MAPLE	STAIN COLOR: MINWAX RED CHESTNUT MW232	4"			LIBRARY LEARNING STAIRS	ARCHITECT TO PROVIDE A CONTROL SAMPLE FOR CUSTOM COLOR MATCH	
WD02	HARDWOOD		MAPLE	STAIN COLOR: MATCH WD01				LEARNING STAIR NOSING	ARCHITECT TO PROVIDE A CONTROL SAMPLE FOR CUSTOM COLOR MATCH	

09 6500 - RESILIENT FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BR01	BASE, RUBBER	ROPPE	4" BASE	193 BLACK BROWN						JENNIFER BRAMMER JENNIFER.BRAMMER@PROFESSIONALFLOORING.COM 281-960-7123
RT01	RUBBER TILE	MANNINGTON	COLOR ANCHOR	MOON BEAM	18"x18"	HAMMERED		INTERIOR RAMPS, STAGE STAIRS		MICHELLE MORRIS MICHELLE.MORRIS@MANNINGTON.COM 832-823-3421
LVT01	LUXURY VINYL TILE	PATCRAFT	LINEO 2.5MM	MINK	5.96"x48"			MAIN FIELD		ALLIE MARKS ALLIE.MARKS@PATCRAFT.COM 713-818-4063
LVT02	LUXURY VINYL TILE	PATCRAFT	LINEO 2.5MM	SAND	5.96"x48"			CORRIDOR ACCENT		ALLIE MARKS ALLIE.MARKS@PATCRAFT.COM 713-818-4063
LVT03	LUXURY VINYL TILE	PATCRAFT	LINEO 2.5MM	SUNSET	5.96"x48"			PREK, KINDER, AND 1ST ACCENT		ALLIE MARKS ALLIE.MARKS@PATCRAFT.COM 713-818-4063
LVT04	LUXURY VINYL TILE	PATCRAFT	LINEO 2.5MM	SPRUCE	5.96"x48"			2ND AND 3RD ACCENT		ALLIE MARKS ALLIE.MARKS@PATCRAFT.COM 713-818-4063
LVT05	LUXURY VINYL TILE	PATCRAFT	LINEO 2.5MM	DENIM	5.96"x48"			4TH AND 5TH ACCENT		ALLIE MARKS ALLIE.MARKS@PATCRAFT.COM 713-818-4063

09 6566 - RESILIENT ATHLETIC FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
RAFS01	RUBBER ATHLETIC FLOORING SHEET	TARKETT	OMNISPORTS MULTI-USE	GOLDEN MAPLE						STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258

09 6723 - RESINOUS FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BRES01	BASE, RESINOUS INTEGRAL	SHERWIN WILLIAMS	HYBRI-FLEX AC	CUSTOM MATCH: DUR-A-FLEX COBBLESTONE	MACRO CHIP COLOR BLEND				PROVIDE 72-INCH SQUARE MOCKUP FOR OWNERS APPROVAL	EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752
RES01	RESINOUS FLOORING	SHERWIN WILLIAMS	HYBRI-FLEX AC	CUSTOM MATCH: DUR-A-FLEX COBBLESTONE	MACRO CHIP COLOR BLEND			KITCHEN & SERVING LINE		EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752

09 6813 - TILE CARPETING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CT01	CARPET, TILE	MILLIKEN	MAJOR FREQUENCY: ONE VIBRATION	INTERFERENCE	9.84"x39.4"			ADMIN		MIGUEL DURAN MIGUEL.DURAN@MILLIKEN.COM 281-757-8915
CT02	CARPET, TILE	MILLIKEN	MAJOR FREQUENCY: ONE DISTORTION	INTERFERENCE	9.84"x39.4"			LIBRARY		MIGUEL DURAN MIGUEL.DURAN@MILLIKEN.COM 281-757-8915
WOT	WALK-OFF TILE	MILLIKEN	OBEX TILE		19.7" x 19.7"			AT EXTERIOR DOORS		MIGUEL DURAN MIGUEL.DURAN@MILLIKEN.COM 281-757-8915

09 7223 - CUSTOM DIGITAL WALLCOVERING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CDW01	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	TYPE II VINYL, MYSTICAL					GYP BD WALLS		NAME EMAIL PHONE
CDW02	CUSTOM DIGITAL WALLCOVERING									NAME EMAIL PHONE

09 7813 - METAL INTERIOR WALL PANELLING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MWP	TONGUE AND GROOVE PLANK	LONGBOARD		LIGHT CHERRY	6" SMOOTH					

09 8400 - ACOUSTICAL PANELS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AP01	ACOUSTICAL PANELS	MAHARAM	METAPHOR	OUTFIELD	REF ELEVATIONS			GYMNASIUM, MUSIC ROOM, DINING, LIBRARY	2" THICK, IMPACT RESISTANT	NAME EMAIL PHONE
AP02	ACOUSTICAL PANELS	MAHARAM	METAPHOR	STEAMSHIP	REF ELEVATIONS			GYMNASIUM, MUSIC ROOM, DINING, LIBRARY	2" THICK, IMPACT RESISTANT	NAME EMAIL PHONE
AP03	ACOUSTICAL PANELS	MAHARAM	METAPHOR	PARACHUTE	REF ELEVATIONS			GYMNASIUM, MUSIC ROOM, DINING, LIBRARY	2" THICK, IMPACT RESISTANT	NAME EMAIL PHONE
AP04	ACOUSTICAL PANELS		2" THICK							NAME EMAIL PHONE

09 9000 - PAINTING AND COATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
COS	CONCRETE, SEALED									NAME EMAIL PHONE
EPNT01	PAINT, EPOXY	SHERWIN WILLIAMS		SW7004 SNOWBOUND				RESTROOMS		EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752
PNT01	PAINT	SHERWIN WILLIAMS		SW7004 SNOWBOUND				MAIN FIELD, GYP. BD CEILINGS		EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752
PNT02	PAINT	SHERWIN WILLIAMS		SW7048 URBANE BRONZE				HOLLOW METAL FRAME		EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752
PNT03	PAINT	SHERWIN WILLIAMS		SW6258 TRICORN BLACK				PLATFORM		EDDIE FISHER EDDIE.FISHER@SHERWIN.COM 512-734-5752

DIVISION 10 - SPECIALTIES
10 1100 - VISUAL DISPLAY UNITS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MB	MARKER BOARD	CLARIDGE	CONCEPT DRY ERASE BOARD	LOW GLOSS WHITE		CLEAR ANODIZED FRAME				JEFF LEWIS JEFF@LEWISREPGROUP.COM 713-206-6228
TB	TACK BOARD	CLARIDGE	CONCEPT CORK BULLETIN BOARD	1111 SMOKE		CLEAR ANODIZED FRAME				JEFF LEWIS JEFF@LEWISREPGROUP.COM 713-206-6228
TS	TACKABLE SURFACE	CLARIDGE	HANG TIGHT RAIL SYSTEM WITH CORK INSERT	1111 SMOKE		CLEAR ANODIZED FRAME			*** SOME TACKABLE SURFACE REQUIRES A LEVEL 5 GYPSUM BOARD FINISH. NOTE THAT HERE IF REQUIRED.***	JEFF LEWIS JEFF@LEWISREPGROUP.COM 713-206-6228

10 1400 - SIGNAGE

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	EXTERIOR SIGNAGE									NAME EMAIL PHONE

REFER TO PROJECT SPECIFICATIONS SECTION 09 9000 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY . ##
MATERIAL TYPE — FINISH COLOR AND MATERIAL SIZE AS NOTED

ACB - ACOUSTICAL CEILING BAFFLE
ACC - ACOUSTICAL CEILING CLOUD
ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM (DOORS AND FRAMES)
AP - ACOUSTICAL PANELS
AWC - ACOUSTICAL WALL COVERING
B - HORIZONTAL BLINDS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTG - BACK-PAINTED, TEMPERED GLASS
BTM - BASE, TILE, MOSAIC
BTP - BASE, TILE, PORCELAIN
BTQ - BASE, TILE, QUARRY
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
BVSF - BASE, VINYL SHEET FLOORING
CC - CUBICLE CURTAIN
CCD - COILING COUNTER DOOR
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDF - CUSTOM DIGITAL FILM
CDW - CUSTOM DIGITAL WALLCOVERINGS
CG - CORNER GUARD
COP - CONCRETE, POLISHED
COS - CONCRETE, SEALED
COST - CONCRETE, STAINED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CSMU - CALCIUM SILICATE MASONRY UNIT
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
DCT - DECORATIVE CONTRETE TOPPING
DEW - DRY ERASE WALLCOVERING
EPNT - EPOXY PAINT
ERC - EPOXY RESIN COUNTERTOP
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
FSS - FIXED SUN SCREENS
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
HM - HOLLOW METAL
IFP - INTUMESCENT FIRE PROTECTION
L - LAY-IN SUSPENDED CEILING TILE
LCK - LOCKERS
LCS - LINEAR CEILING SYSTEM
LF - LINOLEUM FLOORING
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MRP - METAL ROOF PANEL
MS - METAL SOFFIT
NS - NATURAL STONE
OCD - OVERHEAD COILING DOOR
OCG - OVERHEAD COILING GRILLE
OHGL - OVERHEAD GLASS DOOR
OP - OPERABLE PARTITION
PC - PROTECTIVE COVERS
PCP - PORTLAND CEMENT PLASTER
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
PWC - PAINT, WOOD CASEWORK
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFS - RUBBER ATHLETIC FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RP - RESIN PANEL
RS - RUBBER SHEET
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
S - WINDOW SHADES
SAC - SEAMLESS ACOUSTICAL CEILING SYSTEM
SB - BLACKOUT WINDOW SHADES
SC - SOLID CORE (DOOR)
SM - MOTORIZED WINDOW SHADES
SMB - MOTORIZED BLACKOUT WINDOW SHADES
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SS - STAINLESS STEEL
SSM - SOLID SURFACE MATERIAL
STG - THEATRICAL PLATFORM CURTAIN
TAP - TOILET ACCESSORY, PARTITION
TB - TACK BOARD
TC - TILE, CERAMIC
TM - TILE, MOSAIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TRC - TERRACOTTA RAINSCREEN CLADDING
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - VINYL COMPOSITION TILE
VSF - VINYL SHEET FLOORING
VTR - VINYL TREADS AND RISERS
VWC - VINYL WALL COVERING
WAF - WOOD ATHLETIC FLOORING
WDF - WOOD FLOORING
WMS - WOOD MASONITE FLOOR SYSTEM
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE
WVC - WOOD VENEER CASEWORK

FINISH KEY (NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — KIMBERLY ANDREW SAUSER — 25557 — STATE OF TEXAS
11/03/2026

Huckabee
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SCHEDULE OF MATERIALS AND COLORS

Job No. 01949-04-01
Drawn By: AMT / Date: 10/08/2026
Sheet No. G5.01

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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01_Jarrell ISD Atlas Ranch ES_ARCH_v23.rvt

	INTERIOR ROOM SIGNS								TYPE A: CLASSROOMS & OFFICES	NAME EMAIL PHONE
	INTERIOR ROOM SIGNS								TYPE B: GENERAL LOCATIONS	NAME EMAIL PHONE
	INTERIOR ROOM SIGNS								TYPE C: RESTROOM	NAME EMAIL PHONE
	INTERIOR ROOM SIGNS								TYPE D: PICTOGRAM - EVACUATION PLAN	NAME EMAIL PHONE
	INTERIOR ROOM SIGNS								TYPE D: PICTOGRAM	NAME EMAIL PHONE

10 2113.19 - PLASTIC TOILET COMPARTMENTS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
TAP	TOILET ACCESSORY, PARTITION	ASI ACCURATE PARTITIONS	SOLID PLASTIC (HDPE)	BLACK					CLASS A, NFPA 286	JON GREEN JGREEN@ARCHSECURITY.COM

10 2123 - CUBICLE CURTAINS AND TRACK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CC	CUBICLE CURTAIN	CONSTRUCTION SPECIALTIES	SEAGRASS	BAYSHORE BLUE				CLINIC 104		NAME EMAIL PHONE

10 2239 - FOLDING PANEL PARTITIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PP	OPERABLE PARTITION			CLEAR ANODIZED TRIM; COLORS TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL		1 TACKABLE SURFACE (CORK) AND MARKER BOARD REF ELEV ON A3.01				NAME EMAIL PHONE

10 7300 - PROTECTIVE COVERS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PC	PROTECTIVE COVERS			DARK BRONZE						NAME EMAIL PHONE

DIVISION 11 - EQUIPMENT
11 6100 - THEATRICAL EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
STG	PLATFORM CURTAIN	KM FABRICS	MAJESTIC	BLACK				PLATFORM 202		KIM HUGHES KHUGHES@KMFABRICS.COM 864-295-2550

11 6623 - GYMNASIUM EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WP01	WALL PADDING	DRAPER		DARK ROYAL BLUE				GYMNASIUM		NAME EMAIL PHONE

DIVISION 12 - FURNISHINGS
12 2400 - WINDOW SHADES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
S	WINDOW SHADES	MECHOSHADE		COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL				AT EXTERIOR WINDOWS		GAYNOR SHERER GAYNOR@SPECINTEX.COM 281-655-8433
SM	MOTORIZED WINDOW SHADES	MECHOSHADE		COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL				CLERESTORY WINDOWS AT GYMNASIUM & CAFETERIA		GAYNOR SHERER GAYNOR@SPECINTEX.COM 281-655-8433

12 3200 - MANUFACTURED WOOD CASEWORK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PL01	PLASTIC LAMINATE	FORMICA		LIME STONE				COUNTERTOP		SUSAN GAMEL SUSAN.GAMEL@FORMICA.COM 832-474-1971
PL02	PLASTIC LAMINATE	WILSONART		BUKA BARK				CASEWORK, SOLID DOORS		EMILY WILBURN EMILY.WILBURN@WILSONART.COM 832-324-1154
PL03	PLASTIC LAMINATE	WILSONART		LAPIS BLUE				LIBRARY	HW107: HIGH WEAR GENERAL PURPOSE PERFORMANCE GRADE LAMINATE .050"	EMILY WILBURN EMILY.WILBURN@WILSONART.COM 832-324-1154

12 3600 - COUNTERTOPS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
QTZ01	QUARTZ SURFACING	CORIAN	QUARTZ COUNTERTOPS	BEIGE ROYALE				RECEPTION COUNTERTOPS		DAWN JACKSON DJACKSON@HLLMARK.COM 469-346-2069
SSM01	SOLID SURFACE MATERIAL	WILSONART		MYSTIQUE 9200CS				WINDOW SILLS, LIBRARY		EMILY WILBURN EMILY.WILBURN@WILSONART.COM 832-324-1154
SSM02	SOLID SURFACE MATERIAL	BRADLEY	TERREON SOLID SURFACE	RIVERSTONE				WASHSTATIONS AT RESTROOMS		MAY LOCKE MAY@CHUMLEYREP.COM 832-721-2488
SSM03	SOLID SURFACE MATERIAL	WILSONART		HOT STONE				ART ROOM COUNTER AND BACKSPLASH		EMILY WILBURN EMILY.WILBURN@WILSONART.COM 832-324-1154
SSM04	SOLID SURFACE MATERIAL	CARAGREEN	GEOS	ICELAND				LIBRARY BENCHES		

DIVISION 14 - ELEVATORS
14 2400 - HYDRAULIC ELEVATORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	ELEVATOR CAB FLOOR			COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL						NAME EMAIL PHONE
	ELEVATOR CAB WALLS			COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL						NAME EMAIL PHONE
	ELEVATOR HOISTWAY DOORS			COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL						NAME EMAIL PHONE

MISCELLANEOUS
00 0000 - MISCELLANEOUS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	FRY REGLET 4" REVEAL BASE	FRY REGLET	MWRB100400	BLACK		POWDER COAT		USE w/ NSOI IN LIBRARY		

REFER TO PROJECT SPECIFICATIONS SECTION 09 9000 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE / FINISH COLOR AND MATERIAL SIZE AS NOTED

ACB - ACOUSTICAL CEILING BAFFLE
ACC - ACOUSTICAL CEILING CLOUD
ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM (DOORS AND FRAMES)
AP - ACOUSTICAL PANELS
AWC - ACOUSTICAL WALL COVERING
B - HORIZONTAL BLINDS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTG - BACK-PAINTED, TEMPERED GLASS
BTM - BASE, TILE, MOSAIC
BTP - BASE, TILE, PORCELAIN
BTQ - BASE, TILE, QUARRY
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
BVSF - BASE, VINYL SHEET FLOORING
CC - CUBICLE CURTAIN
CCD - COILING COUNTER DOOR
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDF - CUSTOM DIGITAL FILM
CDW - CUSTOM DIGITAL WALLCOVERINGS
CG - CORNER GUARD
COP - CONCRETE, POLISHED
COS - CONCRETE, SEALED
COST - CONCRETE, STAINED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CSMU - CALCIUM SILICATE MASONRY UNIT
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
DCT - DECORATIVE CONTRETE TOPPING
DEW - DRY ERASE WALLCOVERING
EPNT - EPOXY PAINT
ERC - EPOXY RESIN COUNTERTOP
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
FSS - FIXED SUN SCREENS
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
HM - HOLLOW METAL
IFP - INTUMESCENT FIRE PROTECTION
L - LAY-IN SUSPENDED CEILING TILE
LCK - LOCKERS
LCS - LINEAR CEILING SYSTEM
LF - LINOLEUM FLOORING
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MRP - METAL ROOF PANEL
MS - METAL SOFFIT
NS - NATURAL STONE
OCD - OVERHEAD COILING DOOR
OCG - OVERHEAD COILING GRILLE
OHGL - OVERHEAD GLASS DOOR
OP - OPERABLE PARTITION
PC - PROTECTIVE COVERS
PCP - PORTLAND CEMENT PLASTER
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
PWC - PAINT, WOOD CASEWORK
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFS - RUBBER ATHLETIC FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RP - RESIN PANEL
RS - RUBBER SHEET
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
S - WINDOW SHADES
SAC - SEAMLESS ACOUSTICAL CEILING SYSTEM
SB - BLACKOUT WINDOW SHADES
SC - SOLID CORE (DOOR)
SM - MOTORIZED WINDOW SHADES
SMB - MOTORIZED BLACKOUT WINDOW SHADES
SPEC - SPECIAL FINISHES; REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SS - STAINLESS STEEL
SSM - SOLID SURFACE MATERIAL
STG - THEATRICAL PLATFORM CURTAIN
TAP - TOILET ACCESSORY, PARTITION
TB - TACK BOARD
TC - TILE, CERAMIC
TM - TILE, MOSAIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TRC - TERRACOTTA RAINSCREEN CLADDING
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - VINYL COMPOSITION TILE
VSF - VINYL SHEET FLOORING
VTR - VINYL TREADS AND RISERS
VWC - VINYL WALL COVERING
WAF - WOOD ATHLETIC FLOORING
WDF - WOOD FLOORING
WMS - WOOD MASONITE FLOOR SYSTEM
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE
WVC - WOOD VENEER CASEWORK

FINISH KEY (NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — ANDREW SHORT — 25557 — STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

SCHEDULE OF MATERIALS AND COLORS

Job No. 01949-04-01 | Sheet No. G5.02
Drawn By: AMT /
Date: 10/08/2026
S&S

11/2/2026 12:12:21 PM
Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01 - Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt

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OWNER:
ATLAS HOLDINGS, L.P.
115 E 5TH ST #200
AUSTIN, TX 78701
PHONE: (858) 204-4100

ENGINEER:
GRAY ENGINEERING INC.
8834 N. CAPITAL OF TEXAS HWY., SUITE 140
AUSTIN, TEXAS 78759
(512) 452-0371
FAX (512) 454-9933

LEGAL DESCRIPTION:
DESCRIPTION OF 13.694 ACRES OF LAND SITUATED IN WILLIAMSON COUNTY, TEXAS , OUT OF THE ELIJAH DAVIS SURVEY, ABSTRACT NO. 172, BEING A PORTION OF THAT CERTAIN 264.69 ACRE TRACT DESCRIBED IN A DEED OF RECORD TO ATLAS RANCH HOLDINGS, LP, IN DOCUMENT NO. 2021159259, OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.

REVIEWED FOR COMPLIANCE WITH COUNTY REQUIREMENTS (WCSR 2021B):

WILLIAMSON COUNTY **DATE**

WILLIAMSON COUNTY EMERGENCY SERVICE DISTRICT NO.5 **DATE**

ATLAS RANCH MUD No. 1 **DATE**

NOTES: REVIEW OF THE PLANS BY THE DISTRICT IS LIMITED TO WATER, WASTEWATER AND DRAINAGE AND DOES NOT INDICATE A REVIEW OF THE ADEQUACY OF THE DESIGN FOR THE FACILITIES. IN APPROVING THESE PLANS, THE DISTRICT MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NOTES:

1. **THIS PROJECT IS LOCATED WITHIN THE NORTH FORK SALADO CREEK WATERSHED.**
2. **THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.**
3. **PORTIONS OF THIS PLAN ARE ENCROACHED BY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOOD AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBERS 48491C0125F, EFFECTIVE DATE DECEMBER 20, 2019 FOR WILLIAMSON COUNTY TEXAS.**
4. **ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND THE PROJECT SPECIFICATION MANUAL. THE CONTRACTOR SHALL REVIEW BOTH DOCUMENTS AND NOTIFY THE OWNER AND ENGINEER OF ANY CONFLICTS, DISCREPANCIES, OR OMISSIONS BEFORE PROCEEDING WITH THE AFFECTED WORK.**
5. **THE CONTRACTOR SHALL OBTAIN A "NOTICE OF PROPOSED INSTALLATION OF UTILITY LINE" PERMIT FROM WILLIAMSON COUNTY FOR ANY WORK PERFORMED IN THE EXISTING COUNTY RIGHT-O-WAY (DRIVEWAY APRON, WATER MAIN TIE-IN, ETC.) THIS PERMIT APPLICATION WILL REQUIRE A LIABILITY AGREEMENT, A CONSTRUCTION COST ESTIMATE FOR WORK WITHIN THE RIGHT-OF-WAY INCLUDING PAVEMENT REPAIR (IF NEEDED), A PERFORMANCE BOND, CONSTRUCTION PLANS AND, IF NECESSARY, A TRAFFIC CONTROL PLAN. AN INSPECTION FEE, AND A PRE-CONSTRUCTION MEETING MAY ALSO BE REQUIRED, DEPENDING ON THE SCOPE OF WORK. THE PERMIT WILL BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER AND MUST ALSO BE APPROVED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT IF ANY ROAD CLOSURE IS INVOLVED. (WILCO UTILITY POLICY)**
6. **CONTRACTOR TO SUBMIT A TRAFFIC CONTROL DESIGN TO THE COUNTY PRIOR TO ANY WORK IN PUBLIC R.O.W..**

BENCHMARK

BEARING BASIS NOTE:

BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE 4203, NAD83. DISTANCES SHOWN HEREON ARE IN SURFACE AND CAN BE CONVERTED TO GRID BY USING THE COMBINED SCALE FACTOR = 1.00014727

BENCHMARK NOTE:

BENCHMARK FOR THIS PROJECT IS A CHISELED SQUARE FOUND AT THE WEST END OF A CONCRETE HEADWALL ALONG THE NORTH SIDE OF COUNTY RD. 305, LOCATED +/- 120-FEET WEST OF THE INTERSECTION OF COUNTRY RD. 305 AND 344

GRID N. = 10,277,563.05 **NAVD88 (GEIOD 18)**
GRID E. = 3,144,725.36
=788.26

SUBMITTED BY

AUGUSTINE VERRENGIA , P.E.
GRAY ENGINEERING INC.
8834 N. CAPITAL OF TEXAS HWY., SUITE 140
AUSTIN, TEXAS 78759
(512) 452-0371

DATE

STATE OF TEXAS
AUGUSTINE A. VERRENGIA
118909
REGISTERED
PROFESSIONAL ENGINEER
2026.11.02

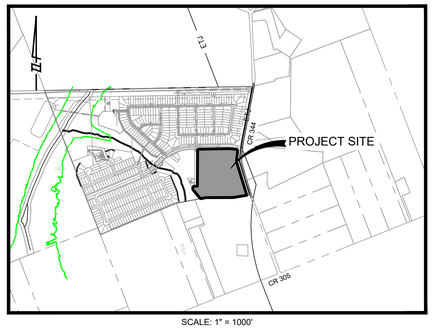
SUBMITTAL TRACKING	
SUBMITTAL NO.	DATE
1	

SITE PLAN FOR

ATLAS RANCH

ELEMENTARY SCHOOL

JARRELL ISD
WILLIAMSON COUNTY, TX



SCALE: 1" = 1000'

REFERENCE DRIVEWAY PERMIT NUMBERS:

?????

SHEET LIST TABLE

SHEET NUMBER	SHEET DISCIPLINE	SHEET TITLE
1	C0.01	COVER SHEET
2	C0.02	GENERAL NOTES
3	C0.03	EXISTING SITE CONDITIONS AND DEMOLITION PLAN
4	C1.01	EROSION AND SEDIMENTATION CONTROL PLAN
5	CS.01	SITE PLAN
6	CS.02	PAVING PLAN
7	CS.03	STRIPING AND SIGNAGE PLAN
8	CS.04	VEHICLE ROUTING AND QUEUING PLAN
9	CS.05	FIRE PROTECTION PLAN
10	CG.01	GRADING PLAN
11	CG.02	COURTYARD GRADING
12	CS.06	EXISTING DRAINAGE AREA MAP
13	CS.07	INLET BASIN DRAINAGE AREA MAP
14	CS.08	INLET BASIN DRAINGE AREA CALCULATIONS
15	CU.01	STORM LINE A1 4+50 - 8+50 & LAT A1.5-A1.7
16	CU.02	STORM LINE A1 8+50 - END & LAT A1.2, A1.3
17	CU.03	STORM LINE B1 1+00 - 4+00 & LAT B1.5, B1.6
18	CU.04	STORM LINE B1 4+00 - 7+00 & LAT B1.3, B1.4, B1.8 - B2.0
19	CU.05	STORM LINE B1 7+00 - END & LAT B1.1, B1.2
20	CU.06	STORM LINE C1 1+00 - END & LAT C1.1, C1.2
21	CU.07	COURTYARD DRAINAGE PLAN
22	CU.08	ROOF DRAINS A1-A3
23	CU.09	ROOF DRAINS A4-A7 AND B1-B8
24	CU.10	ROOF DRAINS D1-D9
25	CU.11	ROOF DRAINS G1-G3, AND H1-H3
26	CU.12	ROOF DRAINS I,J,K,L,M,N,O
27	CU.13	ROOF DRAINS P,Q,R,S
28	CU.14	WASTEWATER LINE A (1+00 TO END)
29	CU.15	WASTEWATER LINE B, B1 AND B2 (1+00 TO END)
30	CU.16	WASTEWATER LINE B3, B4 AND B5 (1+00 TO END)
31	CU.17	WATER LINE A (1+00 TO END)
32	CU.18	FIRELINE E AND D (1+00 TO END)
33	CU.19	FIRE LINE A,B & F (1+00 TO END)
34	CU.20	FIRE LINE C (1+00 TO 10+00)
35	CU.21	FIRE LINE C (10+00 TO END)
36	C1.02	EROSION CONTROL DETAILS
37	CS.09	SITE DETAILS (SHEET 1 OF 4)
38	CS.10	SITE DETAILS (SHEET 2 OF 4)
39	CS.11	SITE DETAILS (SHEET 3 OF 4)
40	CS.12	SITE DETAILS (SHEET 4 OF 4)
41	CU.22	DRAINAGE DETAILS (SHEET 1 OF 3)
42	CU.23	DRAINAGE DETAILS (SHEET 2 OF 3)
43	CU.24	DRAINAGE DETAILS (SHEET 3 OF 3)
44	CU.25	WATER DETAILS (SHEET 1 OF 3)
45	CU.26	WATER DETAILS (SHEET 2 OF 3)
46	CU.27	WATER DETAILS (SHEET 3 OF 3)
47	CU.28	WILLIAMSON COUNTY ESD
48	CU.29	WASTEWATER DETAILS

NO.	DATE	SHEETS	REVISION DESCRIPTION
1	10-28-2026		ENTRY DRIVEWAY, EXISTING DAM AND ADDING STORM PROFILES

GRAY ENGINEERING
8834 N. Capital of Texas Hwy.
Suite 140
Austin, Texas 78759
(512)452-0371
FAX(512)454-9933
TBPELS FIRM #2946

SHEET 1 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
www.huckabee-inc.com
800.687.1229

COVER SHEET

Job No. 01949-04-01
Sheet No. C0.01
Drawn By: MRC
Date: 10/08/2026

S & S

PROJECT NO: 1838-12155 ATLAS RANCH ELEMENTARY SCHOOL

H:\PROJECTS\1838\Autodesk Docs\JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01_Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt
2/2026 3:06:20 PM BY: MICHELES
4/14/2026 9:52:51 AM

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TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS, AT A MINIMUM, MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
2. AN APPOINTED ENGINEER SHALL NOTIFY IN WRITING THE LOCAL TCEQ'S REGIONAL OFFICE WHEN CONSTRUCTION WILL START. PLEASE KEEP IN MIND THAT UPON COMPLETION OF THE WATER WORKS PROJECT, THE ENGINEER OR OWNER SHALL NOTIFY THE COMMISSION'S WATER SUPPLY DIVISION, IN WRITING, AS TO ITS COMPLETION AND ATTEST TO THE FACT THAT THE WORK HAS BEEN COMPLETED ESSENTIALLY ACCORDING TO THE PLANS AND CHANGE ORDERS ON FILE WITH THE COMMISSION AS REQUIRED IN 30 TAC §290.39(H)(3).
3. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI, AS REQUIRED BY 30 TAC §290.44(A)(1).
4. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS, AS REQUIRED BY 30 TAC §290.44(A)(2).
5. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY, AS REQUIRED BY 30 TAC §290.44(A)(3).
6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE, AS REQUIRED BY 30 TAC §290.44(A)(4). REVISED MARCH 4, 2015
7. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS. O THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

   Q=(LD√P)/148,000

WHERE:

- Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
- L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

O THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

   L=(SD√P)/148,000P

WHERE:

- L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
- S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

8. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES TO 0.25 PERCENT.
9. THE SYSTEM MUST BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 35 PSI AT ALL POINTS WITHIN THE DISTRIBUTION NETWORK AT FLOW RATES OF AT LEAST 1.5 GALLONS PER MINUTE PER CONNECTION, WHEN THE SYSTEM IS INTENDED TO PROVIDE FIREFIGHTING CAPABILITY, IT MUST ALSO BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI UNDER COMBINED FIRE AND DRINKING WATER FLOW CONDITIONS AS REQUIRED BY 30 TAC §290.44(D). REVISED MARCH 4, 2015
10. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES IN THE DISTRIBUTION SYSTEM AT ALL POINTS WHERE TOPOGRAPHY OR OTHER FACTORS MAY CREATE AIR LOCKS IN THE LINES. ALL VENT OPENINGS TO THE ATMOSPHERE SHALL BE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT AS REQUIRED BY 30 TAC §290.44(D)(1).
11. PURSUANT TO 30 TAC §290.44(D)(4), ACCURATE WATER METERS SHALL BE PROVIDED. SERVICE CONNECTIONS AND METER LOCATIONS SHOULD BE SHOWN ON THE PLANS.
12. PURSUANT TO 30 TAC §290.44(D)(5), SUFFICIENT VALVES AND BLOWOFFS TO MAKE REPAIRS. THE ENGINEERING REPORT SHALL ESTABLISH CRITERIA FOR THIS DESIGN.
13. PURSUANT TO 30 TAC §290.44(D)(6), THE SYSTEM SHALL BE DESIGNED TO AFFORD EFFECTIVE CIRCULATION OF WATER WITH A MINIMUM OF DEAD ENDS. ALL DEAD-END MAINS SHALL BE PROVIDED WITH ACCEPTABLE FLUSH VALVES AND DISCHARGE PIPING. ALL DEAD-END LINES LESS THAN TWO INCHES IN DIAMETER WILL NOT REQUIRE FLUSH VALVES IF THEY END AT A CUSTOMER SERVICE. WHERE DEAD ENDS ARE NECESSARY AS A STAGE IN THE GROWTH OF THE SYSTEM, THEY SHALL BE LOCATED AND ARRANGED TO ULTIMATELY CONNECT THE ENDS TO PROVIDE CIRCULATION.
14. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES AND SEPTIC TANK DRAINFIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET 30 TAC §290.44(E)(1-OF THE CURRENT RULES.
15. PURSUANT TO 30 TAC §290.44(E)(5), THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT.
16. PURSUANT TO 30 TAC §290.44(E)(6), FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION.
17. PURSUANT TO 30 TAC §290.44(E)(7), SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE.
18. PURSUANT TO 30 TAC §290.44(E)(8), WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS. REVISED MARCH 4, 2015
19. PURSUANT TO 30 TAC §290.44(F)(1), THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
20. PURSUANT TO 30 TAC §290.44(F)(2), WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY OF WATER THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED.
21. THE CONTRACTOR SHALL DISINFECT THE NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARD C-651 AND THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH 30 TAC §290.44(F)(3).

CONSTRUCTION SEQUENCE OF EVENTS

1. CALL COUNTY ENGINEER, ROAD AND BRIDGE DEPARTMENT, DEVELOPMENT SERVICES AND DRAINAGE DEPARTMENT 48 HOURS PRIOR TO BEGINNING ANY WORK. CALL THE ONE CALL CENTER FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN WILLIAMSON COUNTY R.O.W.
2. INSTALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH LOCATIONS AND DETAILS SHOWN ON THE PLANS. PRIOR TO CLEARING AND GRUBBING, NOTIFY WILLIAMSON COUNTY INSPECTORS WHEN EROSION CONTROLS ARE INSTALLED.
3. HOLD PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, DESIGN ENGINEER, OWNERS REPRESENTATIVE AND THE COUNTY INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND PRIOR TO BEGINNING ANY WORK.
4. BEGIN CONSTRUCTION OF PROJECT AS FOLLOWS:
   - A. PERFORM SITE DEMOLITION WORK INCLUDING ABANDONMENT OF EXISTING GROUNDWATER WELLS.
   - B. ROUGH CUT/GRADE STREETS, CHANNELS, PONDS, DRAINAGE FACILITIES AND INITIAL CUT FOR THE BUILDING ENVELOPE. ENSURE NO MAJOR DEVIATIONS TO PROPOSED DRAINAGE PATTERNS OCCUR DURING CONSTRUCTION. PERFORM INITIAL SITE SOIL PREPARATION AND REMEDIATION FOR THE BUILDING ENVELOPE AND ADDITIONAL AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR 3RD PARTY OBSERVATION AND TESTING AGENCY.
   - C. INSTALL ALL ON-SITE UTILITIES
   - D. PREPARE SUBGRADE INCLUDING REQUIRED FILL OF PREVIOUSLY EXISTING ON-SITE POND.
   - E. CONSTRUCT STREET BASE
   - F. INSTALL CURB AND GUTTER
   - G. COMPLETE ALL ROUGH GRADING AND UNDERGROUND UTILITIES IN STREET RIGHT-OF-WAYS
   - H. INSTALL CONCRETE PAVEMENTS
   - I. COMPLETE ALL NECESSARY FINAL SITE IMPROVEMENTS, INCLUDING GRADING AND DRESS UP OF AREAS DISTURBED DURING CONSTRUCTION
5. HOLD OWNERS POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, DESIGN ENGINEER, OWNER'S REPRESENTATIVE AND THE COUNTY'S ENGINEER.
6. AFTER ACCEPTANCE OF REVEGETATION BY THE OWNER AND THE COUNTY'S INSPECTOR, REMOVE TEMPORARY SEDIMENTATION AND EROSION CONTROLS
7. FINAL INSPECTION BY COUNTY WITH CONTRACTOR AND ENGINEER.

1

8834 N. Capital of Texas Hwy.
Suite 140
Austin, Texas 78759
(512) 454-2971
FAX(512)454-3933
TBPELS FIRM #2946

GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

GENERAL NOTES

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

STATE OF TEXAS
AUGUSTINE A. VERRENGIA
118909
LICENSED
PROFESSIONAL ENGINEER
2024.11.02

SHEET 2 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
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800.687.1229

GENERAL NOTES

Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. C0.02

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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES_01949-04-01_Jarrell ISD Atlas Ranch ES_ASCH_v25.rvt

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Project:
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FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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EROSION AND SEDIMENTATION CONTROL PLAN

Job No.: 1836-12155 (W0HC-0401)
Sheet No.: C1.01
Drawn By: MRC
Date: 11/05/2026
S&S

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NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTRY DRIVE & STORM ADD/RELOCATION

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

EROSION AND SEDIMENTATION CONTROL PLAN

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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RELEASED FOR CONSTRUCTION
22241122
11/5/2026

SHEET 4 OF 48

SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

LEGEND

- PROPERTY BOUNDARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- LOC — LIMITS OF CONSTRUCTION
- LOC–SF — LIMITS OF CONSTRUCTION/ SILT FENCE
- ROCK BERM
- TP — TREE PROTECTION
- SF — SILT FENCE
- SF — SILT FENCE W/ J-HOOKS
- LOC–MS — LIMITS OF CONSTRUCTION/ MULCH SOCK
- INLET PROTECTION
- DIRECTION OF FLOW
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STAGING / SPOILS AREA

EROSION AND SEDIMENTTATION CONTROL NOTES:
1. INSTALL PERIMETER CONTROLS, STABILIZED CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, AND OTHER CONTROLS BEFORE CLEARING, DEMOLITION, GRADING, OR OTHER SOIL-DISTURBING ACTIVITIES BEGIN.
2. THE LOCATIONS OF TEMPORARY CONTROLS SHOWN ARE CONCEPTUAL. CONTRACTOR SHALL ADJUST, ADD, REMOVE, OR RELOCATE CONTROLS AS NECESSARY TO ACCOUNT FOR ACTUAL CONSTRUCTION PHASING, DRAINAGE PATTERNS, AND FIELD CONDITIONS. ANY MODIFICATIONS MUST BE COORDINATED WITH THE ESC/SWPPP PREPARER.
3. DO NOT ALLOW SEDIMENT-LADEN RUNOFF TO LEAVE THE LIMITS OF CONSTRUCTION, ENTER ADJACENT PROPERTY, ENTER THE PUBLIC ROADWAY, OR DISCHARGE INTO SALADO CREEK OR AN EXISTING OR PROPOSED STORM SEWER SYSTEM.
4. INSTALL INLET PROTECTION BEFORE AN INLET OR DRAINAGE STRUCTURE BECOMES FUNCTIONAL AND MAINTAIN THE PROTECTION UNTIL THE CONTRIBUTING AREA HAS BEEN PERMANENTLY STABILIZED.
5. SEDIMENT ACCUMULATIONS SHALL BE REMOVED WHEN THEY REDUCE THE DESIGN CAPACITY OR EFFECTIVENESS OF A CONTROL DEVICE. REMOVED SEDIMENT SHALL BE PLACED IN AN APPROVED UPLAND AREA AND STABILIZED.
6. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT TRACKING SOIL OR DEBRIS DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED BY SWEEPING, SCRAPING, OR OTHER APPROVED METHODS. WASHING SEDIMENT INTO A STORM DRAIN OR DRAINAGEWAY IS PROHIBITED.
7. CONCRETE WASHOUT SHALL OCCUR ONLY WITHIN THE DESIGNATED CONCRETE WASHOUT AREA. WASHOUT FROM CONCRETE TRUCKS, EQUIPMENT, FUELS, OILS, CHEMICALS, AND OTHER CONSTRUCTION WASTES SHALL NOT BE DISCHARGED TO THE GROUND, STORM DRAIN SYSTEM, OR DRAINAGEWAY.
8. STOCKPILES AND SPOIL AREAS SHALL BE LOCATED WITHIN THE DESIGNATED STAGING AREA OR ANOTHER APPROVED LOCATION. PROVIDE PERIMETER SEDIMENT CONTROLS AND TEMPORARY ACCESS ROUTES AS SHOWN OR DIRECTED.
9. DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITHIN THE TIME REQUIRED BY THE APPLICABLE STORMWATER PERMIT AND SWPPP.
10. TEMPORARY CONTROLS SHALL REMAIN IN PLACE UNTIL CONTRIBUTING DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION. REMOVE TEMPORARY CONTROLS ONLY AFTER THEY ARE NO LONGER REQUIRED AND STABILIZE THE AREA DISTURBED BY THEIR REMOVAL.
11. CONTRACTOR SHALL MAINTAIN CURRENT EROSION-CONTROL DOCUMENTATION AND RECORD FIELD REVISIONS TO THE CONTROL PLAN AS REQUIRED BY THE SWPPP.
12. REFER TO THE SWP3, TCEQ CONSTRUCTION GENERAL PERMIT DOCUMENTS, WPAP REQUIREMENTS, AND SPECIFICATION SECTION 31 2500 FOR INSPECTION, MAINTENANCE, DOCUMENTATION, CORRECTIVE ACTION, AND STABILIZATION REQUIREMENTS.

811 Know what's below Call before you dig

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

R50' SEPTIC BUFFER (TO BE DELINEATED BY OTHERS)
PROPOSED IRRIGATION WELL (BY OTHERS)
CHAIN LINK FENCE (BY OTHERS)
BASKETBALL COURT
100YR

H:\PROJECTS\1836 - HUCKABEE INC\12155 JARRELL ISD - JARRELL ELEMENTARY SCHOOL NO SCADS\SHEETS\12155-EROS.DWG DATE: 11/2/2026 3:06:57 PM BY: MCHILES

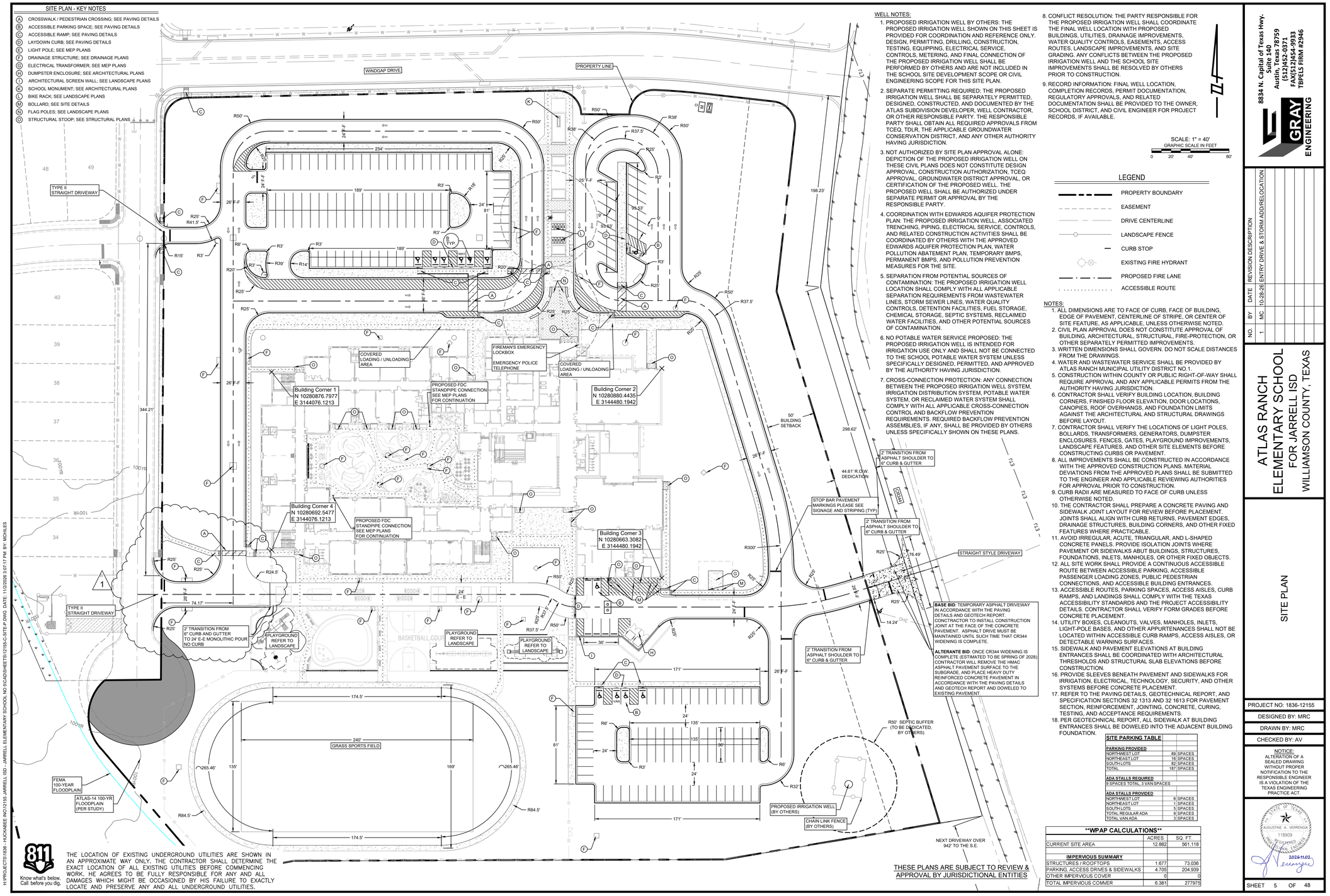
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SITE PLAN - KEY NOTES

- (A) CROSSWALK / PEDESTRIAN CROSSING; SEE PAVING DETAILS
- (B) ACCESSIBLE PARKING SPACE; SEE PAVING DETAILS
- (C) ACCESSIBLE RAMP; SEE PAVING DETAILS
- (D) LAYDOWN CURB; SEE PAVING DETAILS
- (E) LIGHT POLE; SEE MEP PLANS
- (F) DRAINAGE STRUCTURE; SEE DRAINAGE PLANS
- (G) ELECTRICAL TRANSFORMER; SEE MEP PLANS
- (H) DUMPSTER ENCLOSURE; SEE ARCHITECTURAL PLANS
- (I) ARCHITECTURAL SCREEN WALL; SEE LANDSCAPE PLANS
- (K) SCHOOL MONUMENT; SEE ARCHITECTURAL PLANS
- (L) BIKE RACK; SEE LANDSCAPE PLANS
- (M) BOLLARD; SEE SITE DETAILS
- (N) FLAG POLES; SEE LANDSCAPE PLANS
- (O) STRUCTURAL STOOP; SEE STRUCTURAL PLANS



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THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES

WELL NOTES:

1. PROPOSED IRRIGATION WELL BY OTHERS: THE PROPOSED IRRIGATION WELL SHOWN ON THIS SHEET IS PROVIDED FOR COORDINATION AND REFERENCE ONLY. DESIGN, PERMITTING, DRILLING, CONSTRUCTION, TESTING, EQUIPPING, ELECTRICAL SERVICE, CONTROLS, METERING, AND FINAL CONNECTION OF THE PROPOSED IRRIGATION WELL SHALL BE PERFORMED BY OTHERS AND ARE NOT INCLUDED IN THE SCHOOL SITE DEVELOPMENT SCOPE OR CIVIL ENGINEERING SCOPE FOR THIS SITE PLAN.
2. SEPARATE PERMITTING REQUIRED: THE PROPOSED IRRIGATION WELL SHALL BE SEPARATELY PERMITTED, DESIGNED, CONSTRUCTED, AND DOCUMENTED BY THE ATLAS SUBDIVISION DEVELOPER, WELL CONTRACTOR, OR OTHER RESPONSIBLE PARTY. THE RESPONSIBLE PARTY SHALL OBTAIN ALL REQUIRED APPROVALS FROM TCEQ, TDLR, THE APPLICABLE GROUNDWATER CONSERVATION DISTRICT, AND ANY OTHER AUTHORITY HAVING JURISDICTION.
3. NOT AUTHORIZED BY SITE PLAN APPROVAL ALONE: DEPICTION OF THE PROPOSED IRRIGATION WELL ON THESE CIVIL PLANS DOES NOT CONSTITUTE DESIGN APPROVAL, CONSTRUCTION AUTHORIZATION, TCEQ APPROVAL, GROUNDWATER DISTRICT APPROVAL, OR CERTIFICATION OF THE PROPOSED WELL. THE PROPOSED WELL SHALL BE AUTHORIZED UNDER SEPARATE PERMIT OR APPROVAL BY THE RESPONSIBLE PARTY.
4. COORDINATION WITH EDWARDS AQUIFER PROTECTION PLAN: THE PROPOSED IRRIGATION WELL, ASSOCIATED TRENCHING, PIPING, ELECTRICAL SERVICE, CONTROLS, AND RELATED CONSTRUCTION ACTIVITIES SHALL BE COORDINATED BY OTHERS WITH THE APPROVED EDWARDS AQUIFER PROTECTION PLAN, WATER POLLUTION ABATEMENT PLAN, TEMPORARY BMPS, PERMANENT BMPS, AND POLLUTION PREVENTION MEASURES FOR THE SITE.
5. SEPARATION FROM POTENTIAL SOURCES OF CONTAMINATION: THE PROPOSED IRRIGATION WELL LOCATION SHALL COMPLY WITH ALL APPLICABLE SEPARATION REQUIREMENTS FROM WASTEWATER LINES, STORM SEWER LINES, WATER QUALITY CONTROLS, DETENTION FACILITIES, FUEL STORAGE, CHEMICAL STORAGE, SEPTIC SYSTEMS, RECLAIMED WATER FACILITIES, AND OTHER POTENTIAL SOURCES OF CONTAMINATION.
6. NO POTABLE WATER SERVICE PROPOSED: THE PROPOSED IRRIGATION WELL IS INTENDED FOR IRRIGATION USE ONLY AND SHALL NOT BE CONNECTED TO THE SCHOOL POTABLE WATER SYSTEM UNLESS SPECIFICALLY DESIGNED, PERMITTED, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
7. CROSS-CONNECTION PROTECTION: ANY CONNECTION BETWEEN THE PROPOSED IRRIGATION WELL SYSTEM, IRRIGATION DISTRIBUTION SYSTEM, POTABLE WATER SYSTEM, OR RECLAIMED WATER SYSTEM SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION REQUIREMENTS. REQUIRED BACKFLOW PREVENTION ASSEMBLIES, IF ANY, SHALL BE PROVIDED BY OTHERS UNLESS SPECIFICALLY SHOWN ON THESE PLANS.
8. CONFLICT RESOLUTION: THE PARTY RESPONSIBLE FOR THE PROPOSED IRRIGATION WELL SHALL COORDINATE THE FINAL WELL LOCATION WITH PROPOSED BUILDINGS, UTILITIES, DRAINAGE IMPROVEMENTS, WATER QUALITY CONTROLS, EASEMENTS, ACCESS ROUTES, LANDSCAPE IMPROVEMENTS, AND SITE GRADING. ANY CONFLICTS BETWEEN THE PROPOSED IRRIGATION WELL AND THE SCHOOL SITE IMPROVEMENTS SHALL BE RESOLVED BY OTHERS PRIOR TO CONSTRUCTION.
9. RECORD INFORMATION: FINAL WELL LOCATION, COMPLETION RECORDS, PERMIT DOCUMENTATION, REGULATORY APPROVALS, AND RELATED DOCUMENTATION SHALL BE PROVIDED TO THE OWNER, SCHOOL DISTRICT, AND CIVIL ENGINEER FOR PROJECT RECORDS, IF AVAILABLE.

SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- DRIVE CENTERLINE
- LANDSCAPE FENCE
- CURB STOP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE LANE
- ACCESSIBLE ROUTE

NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, EDGE OF PAVEMENT, CENTERLINE OF STRIPE, OR CENTER OF SITE FEATURE, AS APPLICABLE, UNLESS OTHERWISE NOTED.
2. CIVIL PLAN APPROVAL DOES NOT CONSTITUTE APPROVAL OF BUILDING, ARCHITECTURAL, STRUCTURAL, FIRE-PROTECTION, OR OTHER SEPARATELY PERMITTED IMPROVEMENTS.
3. WRITTEN DIMENSIONS SHALL GOVERN. DO NOT SCALE DISTANCES FROM THE DRAWINGS.
4. WATER AND WASTEWATER SERVICE SHALL BE PROVIDED BY ATLAS RANCH MUNICIPAL UTILITY DISTRICT NO.1.
5. CONSTRUCTION WITHIN COUNTY OR PUBLIC RIGHT-OF-WAY SHALL REQUIRE APPROVAL AND ANY APPLICABLE PERMITS FROM THE AUTHORITY HAVING JURISDICTION.
6. CONTRACTOR SHALL VERIFY BUILDING LOCATION, BUILDING CORNERS, FINISHED FLOOR ELEVATION, DOOR LOCATIONS, CANOPIES, ROOF OVERHANGS, AND FOUNDATION LIMITS AGAINST THE ARCHITECTURAL AND STRUCTURAL DRAWINGS BEFORE LAYOUT.
7. CONTRACTOR SHALL VERIFY THE LOCATIONS OF LIGHT POLES, BOLLARDS, TRANSFORMERS, GENERATORS, DUMPSTER ENCLOSURES, FENCES, GATES, PLAYGROUND IMPROVEMENTS, LANDSCAPE FEATURES, AND OTHER SITE ELEMENTS BEFORE CONSTRUCTING CURBS OR PAVEMENT.
8. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS. MATERIAL DEVIATIONS FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE ENGINEER AND APPLICABLE REVIEWING AUTHORITIES FOR APPROVAL PRIOR TO CONSTRUCTION.
9. CURB RADII ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL PREPARE A CONCRETE PAVING AND SIDEWALK JOINT LAYOUT FOR REVIEW BEFORE PLACEMENT. JOINTS SHALL ALIGN WITH CURB RETURNS, PAVEMENT EDGES, DRAINAGE STRUCTURES, BUILDING CORNERS, AND OTHER FIXED FEATURES WHERE PRACTICABLE.
11. AVOID IRREGULAR, ACUTE, TRIANGULAR, AND L-SHAPED CONCRETE PANELS. PROVIDE ISOLATION JOINTS WHERE PAVEMENT OR SIDEWALKS ABUT BUILDINGS, STRUCTURES, FOUNDATIONS, INLETS, MANHOLES, OR OTHER FIXED OBJECTS.
12. ALL SITE WORK SHALL PROVIDE A CONTINUOUS ACCESSIBLE ROUTE BETWEEN ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC PEDESTRIAN CONNECTIONS, AND ACCESSIBLE BUILDING ENTRANCES.
13. ACCESSIBLE ROUTES, PARKING SPACES, ACCESS AISLES, CURB RAMPS, AND LANDINGS SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS AND THE PROJECT ACCESSIBILITY DETAILS. CONTRACTOR SHALL VERIFY FORM GRADES BEFORE CONCRETE PLACEMENT.
14. UTILITY BOXES, CLEANOUTS, VALVES, MANHOLES, INLETS, LIGHT-POLE BASES, AND OTHER APPURTENANCES SHALL NOT BE LOCATED WITHIN ACCESSIBLE CURB RAMPS, ACCESS AISLES, OR DETECTABLE WARNING SURFACES.
15. SIDEWALK AND PAVEMENT ELEVATIONS AT BUILDING ENTRANCES SHALL BE COORDINATED WITH ARCHITECTURAL THRESHOLDS AND STRUCTURAL SLAB ELEVATIONS BEFORE CONSTRUCTION.
16. PROVIDE SLEEVES BENEATH PAVEMENT AND SIDEWALKS FOR IRRIGATION, ELECTRICAL, TECHNOLOGY, SECURITY, AND OTHER SYSTEMS BEFORE CONCRETE PLACEMENT.
17. REFER TO THE PAVING DETAILS, GEOTECHNICAL REPORT, AND SPECIFICATION SECTIONS 32 1313 AND 32 1613 FOR PAVEMENT SECTION, REINFORCEMENT, JOINTING, CONCRETE, CURING, TESTING, AND ACCEPTANCE REQUIREMENTS.
18. PER GEOTECHNICAL REPORT, ALL SIDEWALK AT BUILDING ENTRANCES SHALL BE DOWELED INTO THE ADJACENT BUILDING FOUNDATION.

BASE BID: TEMPORARY ASPHALT DRIVEWAY IN ACCORDANCE WITH THE PAVING DETAILS AND GEOTECH REPORT. CONGTRACTOR TO INSTALL CONSTRUCTION JOINT AT THE FACE OF THE CONCRETE PAVEMENT. ASPHALT DRIVE MUST BE MAINTAINED UNTIL SUCH TIME THAT CR344 WIDENING IS COMPLETE.

ALTERANTE BID: ONCE CR344 WIDENING IS COMPLETE (ESTIMATED TO BE SPRING OF 2028) CONTRACTOR WILL REMOVE THE HMAC ASPHALT PAVEMENT SURFACE TO THE SUBGRADE, AND PLACE HEAVY DUTY REINFORCED CONCRETE PAVEMENT IN ACCORDANCE WITH THE PAVING DETAILS AND GEOTECH REPORT AND DOWELED TO EXISTING PAVEMENT.

SITE PARKING TABLE		
PARKING PROVIDED		
NORTHWEST LOT	89	SPACES
NORTHEAST LOT	16	SPACES
SOUTH LOTS	82	SPACES
TOTAL	187	SPACES
ADA STALLS REQUIRED		
9 SPACES TOTAL, 3 VAN SPACES		
ADA STALLS PROVIDED		
NORTHWEST LOT	6	SPACES
NORTHEAST LOT	1	SPACES
SOUTH LOTS	5	SPACES
TOTAL REGULAR ADA	9	SPACES
TOTAL VAN ADA	3	SPACES

WPAP CALCULATIONS		
	ACRES	SQ. FT.
CURRENT SITE AREA	12.882	561,118
IMPERVIOUS SUMMARY		
STRUCTURES / ROOFTOPS	1.677	73,036
PARKING, ACCESS DRIVES & SIDEWALKS	4.705	204,939
OTHER IMPERVIOUS COVER	0	0
TOTAL IMPERVIOUS COMVER	6.381	277975

8334 N. Capital of Texas Hwy.
Suite 140
Austin, Texas 78759
(512) 453-0767
FAX(512)454-9933
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GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTRY DRIVE & STORM ADD/RELOCATION

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

SITE PLAN

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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AUGUSTINE A. VERENDA 118909 LICENSED PROFESSIONAL ENGINEER 2026.11.02

SHEET 5 OF 48

Date
Revision /

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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SITE PLAN

Job No.	Sheet No.
019409-04-01	CS.01
Drawn By: MRC	
Date: 10/08/2026	

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FOR
JARRELL ISD
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PAVING PLAN

Job No.: 1836-12155-001
Drawn By: MRC
Date: 10/6/2026
Sheet No. CS.02
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ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

PAVING PLAN

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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STATE OF TEXAS
ANTHONY A. VERNOUSKY
118909
LICENSED PROFESSIONAL ENGINEER
2/24/2026

SHEET 6 OF 48

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTRY DRIVE PAVEMENT HATCH UPDATE

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FAX(512)454-9933
TBPELS FIRM #2946

SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20 40 80

PROPOSED REINFORCED CONCRETE SIDEWALK PAVEMENT. REFERENCE PAVING DETAILS AND GEOTECH.

PROPOSED LIGHT DUTY REINFORCED CONCRETE PAVEMENT. REFERENCE PAVING DETAILS AND GEOTECH.

PROPOSED MEDIUM DUTY REINFORCED CONCRETE PAVEMENT. REFERENCE PAVING DETAILS AND GEOTECH.

PROPOSED HEAVY DUTY REINFORCED CONCRETE PAVEMENT. REFERENCE PAVING DETAILS AND GEOTECH.

811
Know what's below
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DEEP SUBGRADE PREP. AREA

BASKETBALL COURT

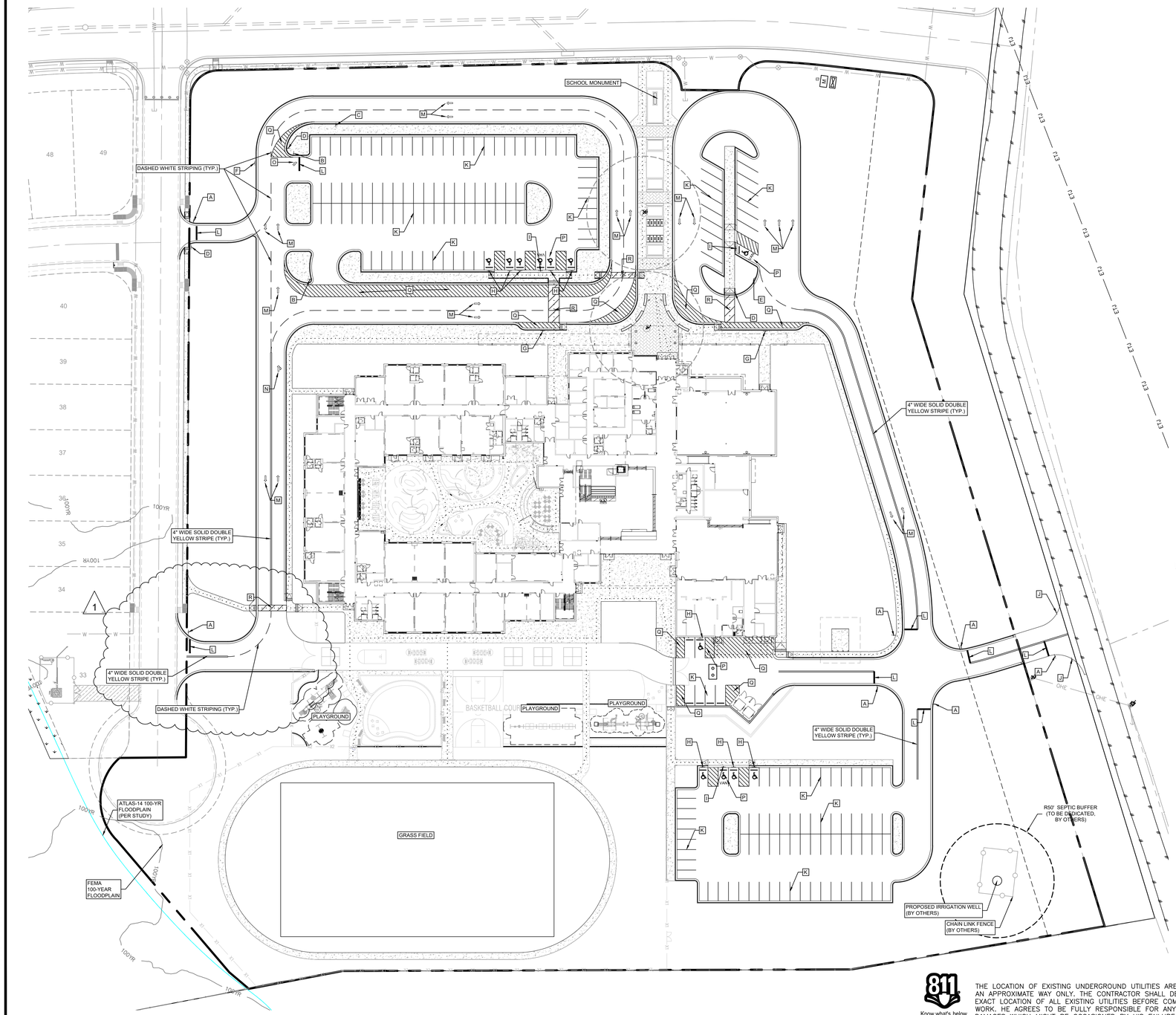
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H:\PROJECTS\1836 - HUCKABEE INC\12155 JARRELL ISD - JARRELL ELEMENTARY SCHOOL NO 9\CAD\SHEETS\12155-CPAVE.DWG DATE: 11/2/2026 3:07:38 PM BY: MCHILES

4/14/2026 9:52:51 AM

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SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- DRIVE CENTERLINE
- LANDSCAPE FENCE
- CURB STOP
- EXISTING FIRE HYDRANT

SIGNAGE PLAN - KEY NOTES

A	"STOP" SIGN (R1-1)
B	"YIELD" SIGN (R1-2)
C	"KEEP RIGHT" SIGN (R4-7)
D	"DO NOT ENTER" SIGN (R5-1)
E	"ONE WAY" SIGN (R6-2L)
F	"LEFT/RIGHT TURN ONLY" SIGN (R3-30A A)
G	ACCESSIBLE DROP-OFF PASSENGER LOADING ZONE
H	ACCESSIBLE PARKING SIGNAGE (INSTALLED IN CONCRETE BOLLARD)
I	VAN ACCESSIBLE PARKING SIGNAGE INSTALLED IN CONCRETE BOLLARD)
J	"BUS AND SERVICE ENTRANCE" SIGN
K	4" WIDE SOLID WHITE PARKING STALL STRIPING (TYP.)
L	24" WIDE SOLID WHITE STOP BAR
M	WHITE PAVEMENT DIRECTIONAL ARROW
N	WHITE PAVEMENT STRAIGHT/RIGHT TURN DIRECTIONAL ARROW
O	WHITE PAVEMENT LEFT TURN DIRECTIONAL ARROW
P	ACCESSIBLE PARKING SPACE WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, ACCESS AISLE, AND 4" WIDE SOLID WHITE STRIPING
Q	4" WIDE SOLID WHITE 45° HATCH STRIPING AT NO PARKING/NO DRIVING AREA, SPACED 2'-0" O.C.
R	PAVEMENT CROSSWALK STRIPING

NOTES:

1. SIGN LOCATIONS ARE DIMENSIONED TO CENTER OF POST UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY FINAL CURB, ISLAND, SIDEWALK, AND PARKING-LOT GEOMETRY BEFORE LAYING OUT STRIPING OR INSTALLING SIGNS.
3. STRIPING DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED.
4. STRIPING SHALL BE STRAIGHT, UNIFORM, SHARPLY DEFINED, AND FREE OF OVERSPRAY, BLEEDING, TRACKING, OR OTHER DEFECTS.
5. APPLY PAVEMENT MARKINGS ONLY TO CLEAN, DRY, FULLY CURED PAVEMENT UNDER CONDITIONS ACCEPTABLE TO THE PAINT MANUFACTURER AND PROJECT SPECIFICATIONS.
6. PARKING STALL STRIPING SHALL BE 4 INCHES WIDE UNLESS OTHERWISE SHOWN. ACCESSIBLE PARKING MARKINGS, ACCESS AISLES, SYMBOLS, AND SIGNAGE SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS.
7. FIRE-LANE PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH THE REQUIREMENTS OF WILLIAMSON COUNTY ESD NO. 5 AND THE APPROVED FIRE-LANE DETAILS. WHERE ESD REQUIREMENTS DIFFER FROM THE DIMENSIONS, LETTERING, OR SPACING SHOWN, THE ESD REQUIREMENTS SHALL GOVERN.
8. ACCESSIBLE PARKING SIGNS SHALL BE CENTERED AT THE HEAD OF THE SPACE AND LOCATED SO THAT THE SIGN AND SUPPORT DO NOT REDUCE THE REQUIRED CLEAR WIDTH OF THE ACCESSIBLE ROUTE OR ACCESS AISLE.
9. SIGN POSTS LOCATED WHERE SUBJECT TO VEHICLE IMPACT SHALL BE INSTALLED WITH THE BOLLARD, WHEELSTOP OR PROTECTIVE ASSEMBLY SHOWN IN THE DETAILS.
10. SIGN LOCATIONS MAY BE ADJUSTED SLIGHTLY TO AVOID UTILITIES, LIGHTING, LANDSCAPING, AND SIGHT-DISTANCE CONFLICTS, PROVIDED THE REQUIRED MESSAGE, VISIBILITY, AND ACCESSIBILITY ARE MAINTAINED.
11. DO NOT PLACE SIGNS WHERE THEY OBSTRUCT DRIVER SIGHT LINES, PEDESTRIAN ROUTES, FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS, OR REQUIRED VEHICULAR CLEARANCES.
12. PRIVATE ON-SITE REGULATORY AND DIRECTIONAL SIGNS SHALL CONFORM TO THE SIGN TYPES AND LEGENDS SHOWN. PUBLIC RIGHT-OF-WAY OR SCHOOL-ZONE SIGNS SHALL NOT BE INSTALLED UNDER THIS PLAN UNLESS SPECIFICALLY SHOWN AND APPROVED BY THE APPLICABLE ROADWAY AUTHORITY.
13. FIRE-LANE CURB MARKINGS AND SIGNS SHALL COMPLY WITH THE REQUIREMENTS OF WILLIAMSON COUNTY ESD NO. 5.
14. REFER TO SPECIFICATION SECTION 10 1453 FOR SIGN MATERIALS AND INSTALLATION AND SECTION 32 1723 FOR PAVEMENT-MARKING MATERIALS, SURFACE PREPARATION, APPLICATION, AND TESTING.
15. ALL PAVEMENT MARKING TO BE WHITE UNLESS OTHERWISE NOTED.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES

811 Know what's below. Call before you dig.

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GRAY ENGINEERING
8834 N. Capital of Texas Hwy.
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TBPELS FIRM #2946

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTRY DRIVE STRIPING REVISION

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STRIPING AND SIGNAGE PLAN

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

AUGUSTINE A. VERRENGIA 118909 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
2026.11.02

SHEET 7 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL FOR JARRELL ISD 115 WINDGAP DR., JARRELL, TX 76537

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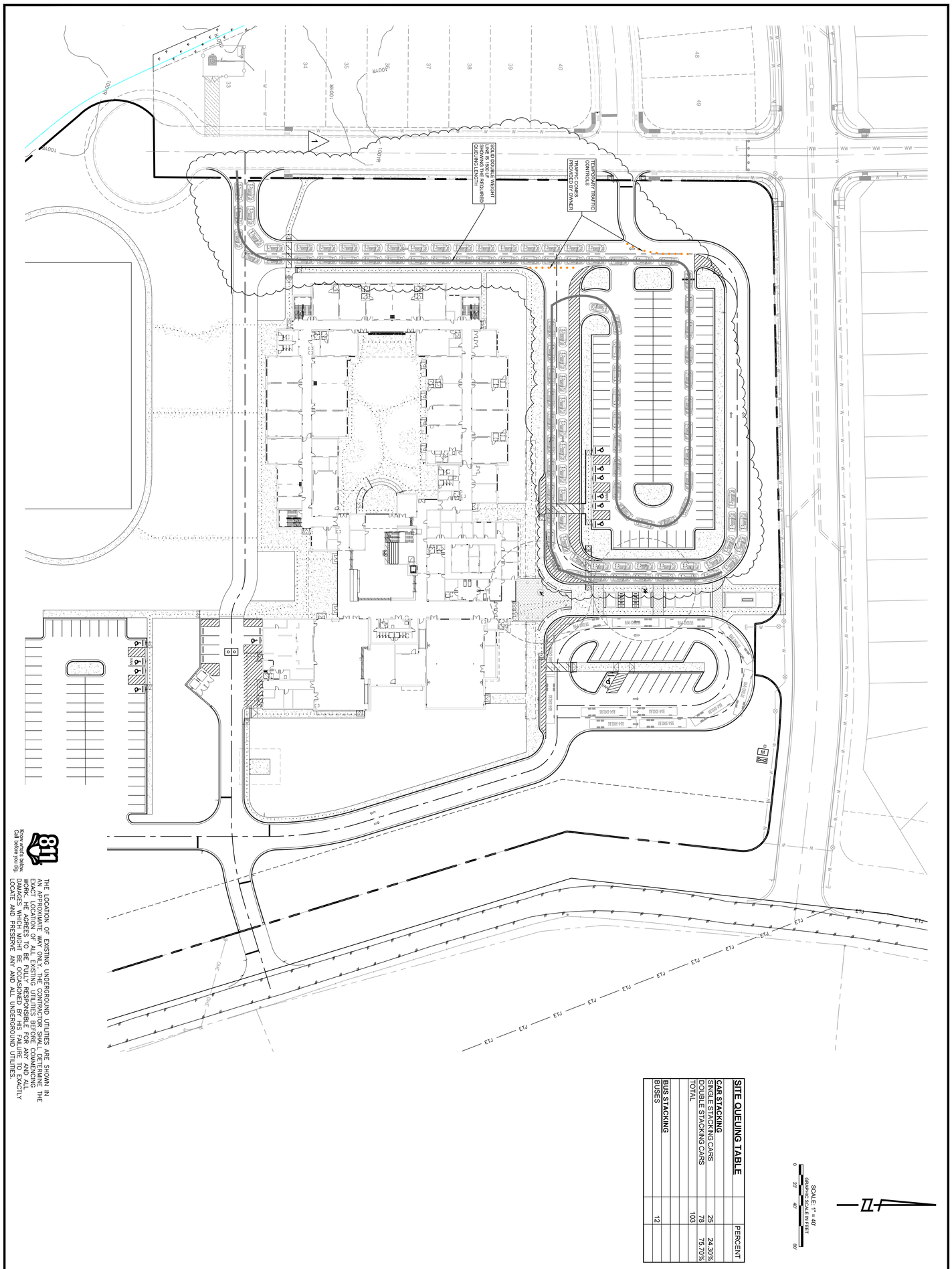
STRIPING AND SIGNAGE PLAN

Job No.	Sheet No.
01949-04-01	CS.03
Drawn By: MRC	
Date: 10/08/2026	

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SITE QUEUING TABLE		
CAR STACKING		PERCENT
SINGLE STACKING CARS	25	24.30%
DOUBLE STACKING CARS	78	75.70%
TOTAL	103	
BUS STACKING		
BUSES	12	

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SHEET 8 OF 48

AUGUSTINE A. VERRENGIA 118939 LICENSED PROFESSIONAL ENGINEER 12/24/2026

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CHECKED BY: AV

DRAWN BY: MRC

DESIGNED BY: MRC

PROJECT NO: 1836-12155

VEHICLE ROUTING AND QUEUING PLAN

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	QUEUE VEHICLES RELOCATION

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Austin, Texas 78759
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TBPELS FIRM #2946

VEHICLE ROUTING AND QUEUING PLAN

Job No. 01949-04-01
Drawn By: MRC
Date: 10/02/2026
Sheet No. CS.04

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Project:
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Revision / Date

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FOR
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FIRE PROTECTION PLAN

Job No. 1836-12155-001
Drawn By: MRC
Date: 1/28/2026
Sheet No. CS.05
S&S

FIRE PROTECTION PLAN

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE PREPARER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT

SHEET 9 OF 48

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

NO.	DATE	REVISION DESCRIPTION
1	10-28-26	ENTRY DRIVE REVISION

GRAY ENGINEERING
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Austin, Texas 78759
(512)452-0371
FAX(512)454-9933
TBPELS FIRM #2946

NOTES:
1. FIRE APPARATUS ACCESS, FIRE LANES, HYDRANTS, FIRE DEPARTMENT CONNECTIONS, GATES, AND SIGNAGE SHALL BE IMPROVEMENTS SHALL COMPLY WITH WILLIAMSON COUNTY ESD NO. 5 REQUIREMENTS.
2. FIRE APPARATUS ACCESS ROADS SHALL BE COMPLETED TO ALL WEATHER CONDITIONS AND MADE SERVICEABLE AS REQUIRED BY THE FIRE CODE OFFICIAL DURING BUILDING CONSTRUCTION.
3. MAINTAIN A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE OF 13 FEET 6 INCHES ALONG FIRE APPARATUS ACCESS ROUTES UNLESS A GREATER CLEARANCE IS REQUIRED BY THE FIRE CODE OFFICIAL.
4. LANDSCAPING, TREES, LIGHT POLES, SIGNAGE, FENCES, GATES, PARKED VEHICLES, PERMANENT FACILITIES, AND OTHER IMPROVEMENTS SHALL NOT ENCROACH INTO THE REQUIRED FIRE-APPARATUS ACCESS WIDTH OR VERTICAL CLEARANCE.
5. GATES ACROSS DESIGNATED FIRE-APPARATUS ACCESS ROUTES SHALL BE APPROVED BY THE FIRE CODE OFFICIAL AND UNTIL AN APPROVED FIRE-DEPARTMENT ACCESS SYSTEM HAS BEEN INSTALLED AND ACCEPTED.
6. FIRE HYDRANTS SHALL BE INSTALLED AND ACCESSIBLE. PROVIDE REQUIRED CLEARANCES AROUND EACH HYDRANT AND ORIENT THE PUMPER CONNECTION TOWARD THE FIRE-APPARATUS ACCESS ROUTE OR AS DIRECTED BY THE FIRE CODE OFFICIAL.
7. THE FIRE DEPARTMENT CONNECTION SHALL BE VISIBLE FROM AND ACCESSIBLE TO THE FIRE-APPARATUS ACCESS ROUTE. DO NOT PLACE LANDSCAPING, FENCES, PARKING, OR SITE FURNISHINGS WITH THE REQUIRED CLEARANCES.
8. FIRE-LANE PAVEMENT SHALL BE CONSTRUCTED TO THE PAVEMENT SECTION AND LOAD CAPACITY SHOWN IN THE CIVIL DETAILS AND GEOTECHNICAL RECOMMENDATIONS.
9. FIRE-LANE PAVEMENT, CURBS, AND MARKINGS ARE LANE TESTING, AND PLACEMENT INTO SERVICE SHALL BE COMPLETED BEFORE FINAL FIRE INSPECTION OR AS OTHERWISE DIRECTED BY THE FIRE CODE OFFICIAL.

SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

N

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

811 Know what's below. Call before you dig.

PROPOSED FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
R50' SEPTIC BUFFER (TO BE DELINEATED BY OTHERS)
PROPOSED IRRIGATION WELL (BY OTHERS)
CHAIN LINK FENCE (BY OTHERS)
PROPOSED KNOX BOX
GATE TO REMAIN UNLOCKED
PROPOSED FDC STANDPIPE CONNECTION SEE RISER DIAGRAM FOR CONTINUATION
PLAYGROUND
BASKETBALL COURT
GRASS FIELD
100YR
ONE WAY

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FOR
JARRELL ISD
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GRADING PLAN

Job No.
20254501

Sheet No.
CG.01

Drawn By:
MRC

Date:
10/6/2026

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NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTRY DRIVE GRADING & SWALE

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

GRADING PLAN

PROJECT NO. 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT

GRAPHIC SCALE: 1" = 20'

GRAPHIC SCALE: 1" = 40'

LEGEND

PROPERTY BOUNDARY
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
DRIVE CENTERLINE
LANDSCAPE ARCHITECT CONTOUR, REFERENCE ONLY
LANDSCAPE ARCHITECT SPOT GRADE, REFERENCE ONLY
PROPOSED CONCRETE PAVEMENT
EXISTING GROUND
FINISHED FLOOR
FINISHED GRADE
TOP OF CURB
BOTTOM OF CURB
HIGH POINT
FLOWLINE

NOTES:
1. SPOT ELEVATIONS AND CONTOURS REPRESENT FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE NOTED.
2. TOP-OF-CURB ELEVATIONS REFER TO THE HIGHEST ADJACENT CURB SURFACE. FLOWLINE OR GUTTER ELEVATIONS SHALL BE DETERMINED BY SUBTRACTING THE CURB TYPE AND DEPTH UNLESS SPECIFICALLY SHOWN.
3. CONTRACTOR SHALL VERIFY EXISTING GRADES AT TIE-IN LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT DIFFERENCES TO THE ENGINEER BEFORE PROCEEDING.
4. PROVIDE SMOOTH TRANSITIONS BETWEEN PROPOSED AND EXISTING GRADES. ABRUPT GRADE BREAKS, LOW AREAS, AND UNINTENDED PONDING SHALL BE CORRECTED.
5. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS, DOORS, WALLS, PAVEMENT SUBGRADES, PLAYGROUND AREAS, AND OTHER IMPROVEMENTS.
6. CONSTRUCT ACCESSIBLE ROUTES TO BUILDING ENTRANCES, ACCESSIBLE ROUTES, CURB RAMPS, ACCESSIBLE PARKING SPACES, AND ACCESS AISLES COMPLIES WITH THE REQUIRED ACCESSIBILITY SLOPES BEFORE PAVING OR CONSTRUCTION.
7. WHERE ACCESSIBLE ELEMENTS ARE SHOWN AT OR NEAR MAXIMUM PERMITTED SLOPES, CONTRACTOR SHALL SET FORMS AND GRADES WITH SUFFICIENT CONSTRUCTION TOLERANCE TO ENSURE THE FINISHED WORK DOES NOT EXCEED THE APPLICABLE MAXIMUM.
8. LANDSCAPE ARCHITECT GRADES SHOWN ON THE CIVIL PLANS ARE FOR CONSTRUCTION CONTRACT LIMITS ONLY. FOR GRADES OUTSIDE LIMITS OF CONSTRUCTION, CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECT GRADING PLANS.
9. DO NOT PLACE FILL OVER TOPSOIL, VEGETATION, DEBRIS, UNSUITABLE MATERIAL, SEPARATED MATERIAL, OR OTHER UNSUITABLE SUBGRADE.
10. PROOFROLL PAVEMENT, SIDEWALK, AND STRUCTURAL FILL AREAS PER THE GEOTECHNICAL REPORT BEFORE PLACING BASE OR CONCRETE. REMOVE OR REMEDIATE UNSTABLE AREAS AS DIRECTED.
11. EARTHWORK SHALL BE SEQUENCED TO MAINTAIN POSITIVE DRAINAGE AND PREVENT RUNOFF FROM ENTERING BUILDINGS, EXCAVATIONS, OR PREPARED SUBGRADES.
12. REFER TO THE GEOTECHNICAL REPORT AND SPECIFICATION SECTIONS 31 2300 AND 31 3200 FOR MATERIAL, MOISTURE CONDITIONING, LIFT THICKNESS, COMPACTION, TESTING, AND SUBGRADE STABILIZATION REQUIREMENTS.

811 Know what's below. Call before you dig.

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F.F.E. = 780.5

SEE COURTYARD GRADING (NEXT SHEET)

RSF SEPTIC BUFFER (TO BE DELINEATED BY OTHERS)

CHAIN LINK FENCE (BY OTHERS)

PROPOSED IRRIGATION WELL (BY OTHERS)

END OF 5' SIDEWALK ALONG DRIVE

SWALE FROM SLOPE EDGE OF PAVEMENT IS LF

SHEET 10 OF 48

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4/14/2026 9:52:51 AM

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SCALE: 1" = 60'
GRAPHIC SCALE IN FEET
0 30' 60' 120'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- 950 EXISTING MAJOR CONTOUR
- 950 EXISTING MINOR CONTOUR
- 950 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION (SHEET FLOW)
- TIME OF CONCENTRATION (SHALLOW FLOW)
- TIME OF CONCENTRATION (CHANNEL/PIPE FLOW)
- PROPOSED DRAIN INLET
- FLOW ARROW
- DA XX.X AC — DRAINAGE AREA LABEL
- LOA 1 — LINE OF ANALYSIS LABEL

NOTE:

1. ATLAS 14 PRECIPITATION DATA HAS BEEN UTILIZED IN ALL DRAINAGE CALCULATIONS

811 Know what's below. Call before you dig.

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Peak Flow Table																	
Drainage Area	Inlet	Inlet Type	Area (Acre)	Impervious (%)	Pervious(%)	Time of Concentration (min.)	2 Year			10 Year			25 Year			100 Year		
							C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)
DA.A	DA.A	Grade Inlet	1.04	0.82%	99.18%	15.02	0.33	3.77	1.30	0.38	6.08	2.42	0.42	7.45	3.27	0.49	9.61	4.93
DA.B	DA.B	Grade Inlet	5.08	2.98%	97.02%	16.12	0.34	3.65	6.33	0.39	5.89	11.76	0.43	7.23	15.90	0.50	9.35	23.91
DA.C	DA.C	Grade Inlet	7.92	0.00%	100.00%	14.91	0.33	3.78	9.88	0.38	6.10	18.35	0.42	7.47	24.84	0.49	9.64	37.39

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NO.	BY	DATE	REVISION DESCRIPTION

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

EXISTING DRAINAGE AREA MAP

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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STATE OF TEXAS
AUGUSTINE A. VERRENGA
118909
LICENSED
PROFESSIONAL ENGINEER
2026.11.02

SHEET 12 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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EXISTING DRAINAGE AREA MAP

Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. CS.06

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INLET BASIN DRAINAGE AREA MAP

Job No. 012155-0401
Drawn By: MRC
Date: 10/8/2026

Sheet No. CS.07

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NO.	BY	DATE	REVISION DESCRIPTION

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

INLET BASIN DRAINAGE AREA MAP

PROJECT NO. 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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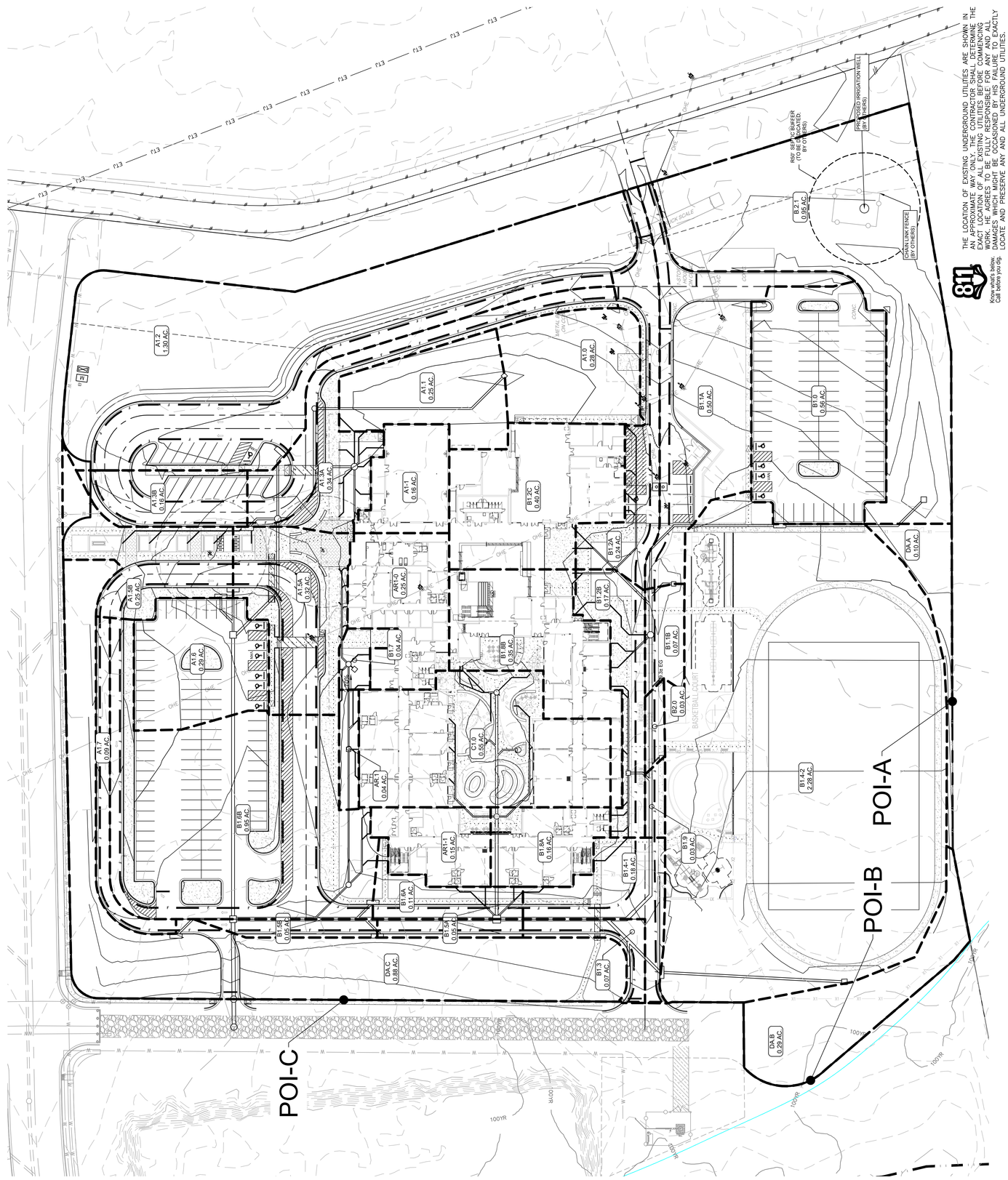
SHEET 13 OF 48

LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION (SHEET FLOW)
- TIME OF CONCENTRATION (SHALLOW FLOW)
- TIME OF CONCENTRATION (CHANNEL/PIPE FLOW)
- PROPOSED DRAIN INLET
- FLOW ARROW
- DRAINAGE AREA LABEL
- LINE OF ANALYSIS LABEL

XXX GRAPHIC SCALE IN FEET 0 XX XXX XXX

NOTE:
1. ATLAS 14 PRECIPITATION DATA HAS BEEN UTILIZED IN ALL DRAINAGE CALCULATIONS



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Land Use Table

Drainage Area	Area (ft²)	Area (Acres)	Misc. IC (ft²)	Total Impervious Area (ft²)	Total Pervious Area (ft²)	Pervious Type	Impervious (%)	Pervious (%)	Runoff Coefficents			
									2 Year	10 Year	25 Year	100 Year
A1-1	6799	0.16	6,799	6,799		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
A1.0	12133	0.28	2,071	2,071	10,061	Fair Grass (0-2%)	17.07%	82.93%	0.33	0.39	0.43	0.50
A1.1	11036	0.25	368	368	10,668	Fair Grass (0-2%)	3.34%	96.66%	0.27	0.32	0.36	0.43
A1.2	55568	1.30	14,366	14,366	42,202	Fair Grass (0-2%)	25.40%	74.60%	0.37	0.43	0.47	0.55
A1.3A	14800	0.34	12,796	12,796	2,004	Fair Grass (0-2%)	86.46%	13.54%	0.67	0.75	0.80	0.89
A1.3B	7011	0.16	6,141	6,141	870	Fair Grass (0-2%)	87.59%	12.41%	0.68	0.76	0.80	0.89
A1.5A	13730	0.32	13,585	13,585	145	Fair Grass (0-2%)	98.94%	1.06%	0.73	0.81	0.86	0.95
A1.5B	10785	0.25	8,346	8,346	2,438	Fair Grass (0-2%)	77.39%	22.61%	0.63	0.70	0.75	0.84
A1.6	12722	0.29	12,722	12,722		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
A1.7	4097	0.09	4,097	4,097		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
AR.1	1901	0.04			1,901	Fair Grass (0-2%)	0.00%	100.00%	0.25	0.30	0.34	0.41
AR1-0	10960	0.25	10,960	10,960		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
AR1-1	6619	0.15	6619	6,619		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
B1.0	24461	0.56	24,326	24,326	136	Fair Grass (0-2%)	99.45%	0.55%	0.74	0.82	0.87	0.96
B1.1A	21801	0.50	10,337	10,337	11,463	Fair Grass (0-2%)	47.42%	52.58%	0.48	0.55	0.59	0.67
B1.1B	3180	0.07	1,241	1,241	1,939	Fair Grass (0-2%)	39.04%	60.96%	0.44	0.50	0.55	0.62
B1.2A	10288	0.24	9,258	9,258	1,030	Fair Grass (0-2%)	89.98%	10.02%	0.69	0.77	0.82	0.90
B1.2B	7504	0.17	6,697	6,697	807	Fair Grass (0-2%)	89.25%	10.75%	0.69	0.76	0.81	0.90
B1.2C	17557	0.40	17,557	17,557		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
B1.3	2916	0.07	2,522	2,522	394	Fair Grass (0-2%)	86.48%	13.52%	0.67	0.75	0.80	0.89
B1.4-1	7892	0.18	5,451	5,451	2,441	Fair Grass (0-2%)	69.07%	30.93%	0.59	0.66	0.71	0.79
B1.4-2	99527	2.28	23,401	23,401	76,127	Fair Grass (0-2%)	23.51%	76.49%	0.37	0.42	0.46	0.54
B1.5A	2154	0.05	1,762	1,762	392	Fair Grass (0-2%)	81.82%	18.18%	0.65	0.73	0.77	0.86
B1.5B	2332	0.05	1,966	1,966	366	Fair Grass (0-2%)	84.31%	15.69%	0.66	0.74	0.79	0.87
B1.6A	4706	0.11	2,771	2,771	1,935	Fair Grass (0-2%)	58.88%	41.12%	0.54	0.61	0.65	0.73
B1.6B	41536	0.95	38,999	38,999	2,537	Fair Grass (0-2%)	93.89%	6.11%	0.71	0.79	0.84	0.93
B1.7	1890	0.04	1,033	1,033	857	Fair Grass (0-2%)	54.67%	45.33%	0.52	0.58	0.63	0.71
B1.8A	6797	0.16	6797	6,797		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
B1.8B	15418	0.35	15418	15,418		Fair Grass (0-2%)	100.00%	0.00%	0.74	0.82	0.87	0.96
B1.9	1170	0.03	1032	1,032	138	Fair Grass (0-2%)	88.22%	11.78%	0.68	0.76	0.81	0.90
B2.0	1220	0.03	1163	1,163	57	Fair Grass (0-2%)	95.31%	4.69%	0.72	0.80	0.85	0.93
B2.1	22877	0.53			22,877	Fair Grass (0-2%)	0.00%	100.00%	0.25	0.30	0.34	0.41
C1.0	23889	0.55	19,523	19,523	4,365	Fair Grass (0-2%)	81.73%	18.27%	0.65	0.72	0.77	0.86
DA.A	4171	0.10			4,171	Fair Grass (0-2%)	0.00%	100.00%	0.25	0.30	0.34	0.41
DA.B	12573	0.29			12,573	Fair Grass (0-2%)	0.00%	100.00%	0.25	0.30	0.34	0.41
DA.C	38314	0.88	1,568	1,568	36,747	Fair Grass (0-2%)	4.09%	95.91%	0.27	0.32	0.36	0.43
Total	481477	11.05	283326	283326	198151		58.85%	41.15%				

Time of Concentration Calculations

Drainage Area	Sheet Flow							Shallow Concentrated Flow											Channel Flow			Time of Concentration (min.)	
								Unpaved					Paved					Total						
	Surface Type	n	Length (ft)	Highest Elev. (ft)	Lowest Elev. (ft)	Slope (%)	Tt (min.)	Length (ft)	Highest Elev. (ft)	Lowest Elev. (ft)	Slope (%)	Tt (min.)	Length (ft)	Highest Elev. (ft)	Lowest Elev. (ft)	Slope (%)	Tt (min.)	Tt (min.)	Velocity (ft/s)	Length (ft)	Tt (min.)	Minimum Tc (min.)=	5
A1-1	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	0.0			0.0%						5.00	
A1.0	Grass (Dense grasses)	0.24	100.0	782.9	779.8	3.1%	10.85	66.5	779.8	778.8	1.5%	0.56	0.0			0.0%		0.56				11.41	
A1.1	Grass (Dense grasses)	0.24	100.0	780.6	779.2	1.4%	14.87	54.0	779.2	778.8	0.8%	0.63	0.0			0.0%		0.63				15.50	
A1.2	Grass (Dense grasses)	0.24	100.0	785.0	783.1	1.9%	13.11	20.0	783.1	781.3	9.0%	0.07	160.8	780.8	779.1	1.0%	1.29	1.36				14.47	
A1.3A	Concrete (rough or smoothed finish)	0.015	7.8	783.0	783.0	0.4%	0.35	0.0			0.0%		456.7	783.0	778.5	1.0%	3.78	3.78				5.00	
A1.3B	Grass (Dense grasses)	0.24	14.0	782.3	781.6	5.3%	1.82	0.0			0.0%		163.2	781.6	778.5	1.9%	0.96	0.96				5.00	
A1.5A	Concrete (rough or smoothed finish)	0.015	100.0			2.0%	1.41	0.0			0.0%		139.7			2.0%	0.81	0.81				5.00	
A1.5B	Grass (Dense grasses)	0.24	83.8	783.0	781.8	1.4%	12.87	0.0			0.0%		145.0	781.8	781.3	0.3%	2.07	2.07				14.93	
A1.6	Asphalt	0.016	100.0	781.1	779.3	1.8%	1.54	0.0			0.0%		112.9	779.3	778.0	1.2%	0.86	0.86				5.00	
A1.7	Asphalt	0.016	17.5	781.3	781.0	1.6%	0.40	0.0			0.0%		316.8	781.0	778.5	0.8%	2.94	2.94				5.00	
AR.1	Grass (Dense grasses)	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
AR1-0	Concrete (rough or smoothed finish)	0.015	12.6	784.1	783.9	1.8%	0.28	0.0			0.0%		229.5	783.9	779.0	2.1%	1.29	1.29				5.00	
AR1-1	Concrete (rough or smoothed finish)	0.015	12.6	784.1	783.9	1.8%	0.28	0.0			0.0%		229.5	783.9	779.0	2.1%	1.29	1.29				5.00	
B1.0	Asphalt	0.016	12.6	784.1	783.9	1.8%	0.29	0.0			0.0%		229.5	783.9	779.0	2.1%	1.29	1.29				5.00	
B1.1A	Asphalt	0.016	12.1	785.2	784.9	2.1%	0.27	21.9	778.9	778.6	1.4%	0.19	345.6	784.9	778.9	1.7%	2.15	2.35				5.00	
B1.1B	Asphalt	0.016	17.1	780.0	779.8	1.2%	0.44	28.5	778.9	778.6	0.9%	0.31	164.8	779.8	778.9	0.5%	1.87	2.18				5.00	
B1.2A	Asphalt	0.016	15.1	785.2	784.9	2.1%	0.32	17.5	778.9	778.5	2.6%	0.11	328.5	784.9	778.9	1.8%	2.01	2.12				5.00	
B1.2B	Concrete (rough or smoothed finish)	0.015	74.0			2.0%	1.11	28.6	778.9	778.5	1.3%	0.26	86.5	779.7	778.9	1.0%	0.71	0.96				5.00	
B1.2C	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B1.3	Grass (Dense grasses)	0.24	3.3	779.1	779.0	1.8%	0.88	0.0			0.0%		191.8	779.0	776.5	1.3%	1.38	1.38				5.00	
B1.4-1	Concrete (rough or smoothed finish)	0.015	100.0			2.0%	1.41	41.9	779.9	778.4	3.6%	0.23	149.2	778.4	776.1	1.6%	0.98	1.21				5.00	
B1.4-2	Grass (Dense grasses)	0.24	100.0	779.8	779.5	0.3%	27.99	379.2	779.5	775.7	1.0%	3.90	0.0			0.0%		3.90				31.89	
B1.5A	Grass (Dense grasses)	0.24	3.3	779.1	779.0	1.8%	0.88	0.0			0.0%		130.7	779.0	777.6	1.0%	1.05	1.05				5.00	
B1.5B	Asphalt	0.016	40.4	778.6	778.2	1.1%	0.91	0.0			0.0%		126.3	778.2	777.6	0.5%	1.54	1.54				5.00	
B1.6A	Concrete (rough or smoothed finish)	0.015	72.1			2.0%	1.08	15.1	779.3	778.8	3.2%	0.09	99.0	778.3	777.6	0.7%	0.99	1.08				5.00	
B1.6B	Grass (Dense grasses)	0.24	27.5	781.3	780.9	1.3%	5.39	0.0			0.0%		445.6	780.4	777.6	0.6%	4.65	4.65				10.04	
B1.7	Grass (Dense grasses)	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B1.8A	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B1.8B	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B1.9	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B2.0	Concrete (rough or smoothed finish)	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.00	
B2.1	Grass (Dense grasses)	0.24	100.0	785.0	783.8	1.2%	16.07	337.3	783.8	781.5	0.7%	4.21				0.0%	-	4.21				20.28	
C1.0	Concrete (rough or smoothed finish)	0.015	70.4			0.0%		0.0			0.0%					0.0%						5.00	
DA.A	Grass (Dense grasses)	0.24	100.0	781.7	780.4	1.3%	15.55	61.7	780.4	779.8	1.1%	0.61				0.0%		0.61				16.16	
DA.B	Grass (Dense grasses)	0.24	89.3	775.5	773.2	2.5%	10.78	0.0			0.0%					0.0%						10.78	
DA.C	Grass (Dense grasses)	0.24	56.0	778.2	776.4	3.3%	6.68	0.0			0.0%					0.0%						6.68	

Peak Flow Table

Drainage Area	Inlet	Inlet Type	Area (Acre)	Impervious (%)	Pervious(%)	Time of Concentration (min.)	2 Year			10 Year			25 Year			100 Year		
							C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)	C	I (in/hr)	Q (ft³/s)
A1-1	A1-1	Sump Inlet	0.16	100.00%	0.00%	5.00	0.74	5.57	0.64	0.82	8.75	1.12	0.87	10.53	1.43	0.96	13.18	1.97
A1.0	A1.0	Sump Inlet	0.28	17.07%	82.93%	11.41	0.33	4.25	0.39	0.39	6.81	0.74	0.43	8.30	1.00	0.50	10.62	1.49
A1.1	A1.1	Sump Inlet	0.25	3.34%	96.66%	15.50	0.27	3.71	0.25	0.32	6.00	0.48	0.36	7.35	0.67	0.43	9.49	1.03
A1.2	A1.2	Grade Inlet	1.30	25.40%	74.60%	14.47	0.37	3.83	1.86	0.43	6.18	3.47	0.47	7.57	4.66	0.55	9.75	6.96
A1.3A	A1.3A	Sump Inlet	0.34	86.46%	13.54%	5.00	0.67	5.57	1.27	0.75	8.75	2.23	0.80	10.53	2.86	0.89	13.18	3.96
A1.3B	A1.3B	Sump Inlet	0.16	87.59%	12.41%	5.00	0.68	5.57	0.61	0.76	8.75	1.06	0.80	10.53	1.36	0.89	13.18	1.89
A1.5A	A1.5A	Sump Inlet	0.32	98.94%	1.06%	5.00	0.73	5.57	1.29	0.81	8.75	2.25	0.86	10.53	2.87	0.95	13.18	3.96
A1.5B	A1.5B	Sump Inlet	0.25	77.39%	22.61%	14.93	0.63	3.78	0.59	0.70	6.10	1.06	0.75	7.47	1.39	0.84	9.63	1.99
A1.6	A1.6	Sump Inlet	0.29	100.00%	0.00%	5.00	0.74	5.57	1.20	0.82	8.75	2.09	0.87	10.53	2.68	0.96	13.18	3.69
A1.7	A1.7	Grade Inlet	0.09	100.00%	0.00%	5.00	0.74	5.57	0.39	0.82	8.75	0.67	0.87	10.53	0.86	0.96	13.18	1.19
AR.1	AR.1	Grade Inlet	0.04	0.00%	100.00%	5.00	0.25	5.57	0.06	0.30	8.75	0.11	0.34	10.53	0.16	0.41	13.18	0.24
AR1-0	AR1-0	Area Inlet	0.25	100.00%	0.00%	5.00	0.74	5.57	1.04	0.82	8.75	1.80	0.87	10.53	2.30	0.96	13.18	3.18
AR1-1	AR1-1	Other	0.15	100.00%	0.00%	5.00	0.74	5.57	0.63	0.82	8.75	1.09	0.87	10.53	1.39	0.96	13.18	1.92
B1.0	B1.0	Sump Inlet	0.56	99.45%	0.55%	5.00	0.74	5.57	2.31	0.82	8.75	4.01	0.87	10.53	5.13	0.96	13.18	7.08
B1.1A	B1.1A	Sump Inlet	0.50	47.42%	52.58%	5.00	0.48	5.57	1.34	0.55	8.75	2.39	0.59	10.53	3.12	0.67	13.18	4.42
B1.1B	B1.1B	Sump Inlet	0.07	39.04%	60.96%	5.00	0.44	5.57	0.18	0.50	8.75	0.32	0.55	10.53	0.42	0.62	13.18	0.60
B1.2A	B1.2A	Sump Inlet	0.24	89.98%	10.02%	5.00	0.69	5.57	0.91	0.77	8.75	1.59	0.82	10.53	2.03	0.90	13.18	2.82
B1.2B	B1.2B	Sump Inlet	0.17	89.25%	10.75%	5.00	0.69	5.57	0.66	0.76	8.75	1.15	0.81	10.53	1.47	0.90	13.18	2.04
B1.2C	B1.2C	Sump Inlet	0.40	100.00%	0.00%	5.00	0.74	5.57	1.66	0.82	8.75	2.89	0.87	10.53	3.69	0.96	13.18	5.10
B1.3	B1.3	Grade Inlet	0.07	86.48%	13.52%	5.00	0.67	5.57	0.25	0.75	8.75	0.44	0.80	10.53	0.56	0.89	13.18	0.78
B1.4-1	B1.4-1	Grade Inlet	0.18	69.07%	30.93%	5.00	0.59	5.57	0.59	0.66	8.75	1.04	0.71	10.53	1.35	0.79	13.18	1.89
B1.4-2	B1.4-2	Sump Inlet	2.28	23.51%	76.49%	31.89	0.37	2.52	2.10	0.42	4.14	4.00	0.46	5.14	5.45	0.54	6.77	8.35
B1.5A	B1.5A	Sump Inlet	0.05	81.82%	18.18%	5.00	0.65	5.57	0.18	0.73	8.75	0.31	0.77	10.53	0.40	0.86	13.18	0.56
B1.5B	B1.5B	Sump Inlet	0.05	84.31%	15.69%	5.00	0.66	5.57	0.20	0.74	8.75	0.35	0.79	10.53	0.44	0.87	13.18	0.62
B1.6A	B1.6A	Sump Inlet	0.11	58.88%	41.12%	5.00	0.54	5.57	0.32	0.61	8.75	0.57	0.65	10.53	0.74	0.73	13.18	1.04
B1.6B	B1.6B	Sump Inlet	0.95	93.89%	6.11%	10.04	0.71	4.47	3.03	0.79	7.14	5.37	0.84	8.68	6.94	0.93	11.07	9.78
B1.7	B1.7	Area Inlet	0.04	54.67%	45.33%	5.00	0.52	5.57	0.13	0.58	8.75	0.22	0.63	10.53	0.29	0.71	13.18	0.41
B1.8A	B1.8A	Other	0.16	100.00%	0.00%	5.00	0.74	5.57	0.64	0.82	8.75	1.12	0.87	10.53	1.43	0.96	13.18	1.97
B1.8B	B1.8B	Other	0.35	100.00%	0.00%	5.00	0.74	5.57	1.46	0.82	8.75	2.54	0.87	10.53	3.24	0.96	13.18	4.48
B1.9	B1.9	Area Inlet	0.03	88.22%	11.78%	5.00	0.68	5.57	0.10	0.76	8.75	0.18	0.81	10.53	0.23	0.90	13.18	0.32
B2.0	B2.0	Area Inlet	0.03	95.31%	4.69%	5.00	0.72	5.57	0.11	0.80	8.75	0.19	0.85	10.53	0.25	0.93	13.18	0.34
B2.1	B2.1	Area Inlet	0.53	0.00%	100.00%	20.28	0.25	3.25	0.43	0.30	5.28	0.83	0.34	6.50	1.16	0.41	8.47	1.82
C1.0	C1.0	Sump Inlet	0.55	81.73%	18.27%	5.00	0.65	5.57	1.99	0.72	8.75	3.48	0.77	10.53	4.46	0.86	13.18	6.21
DA.A	DA.A	Sump Inlet	0.10	0.00%	100.00%	16.16	0.25	3.64	0.09	0.30	5.89	0.17	0.34	7.22	0.24	0.41	9.34	0.37
DA.B	DA.B	Sump Inlet	0.29	0.00%	100.00%	10.78	0.25	4.35	0.31	0.30	6.96	0.60	0.34	8.47	0.83	0.41	10.82	1.28
DA.C	DA.C	Sump Inlet	0.88	4.09%	95.91%	6.68	0.27	5.14	1.22	0.32	8.13	2.30	0.36	9.82	3.13	0.43	12.38	4.71

811 Know what's below. Call before you dig.

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8334 N. Capital of Texas Hwy.
Suite 140
Austin, Texas 78759
(512) 453-0767
FAX(512)454-9933
TBPELS FIRM #2946

GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

INLET BASIN DRAINGE AREA CALCULATIONS

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

STATE OF TEXAS
AUGUSTINE A. VERRENGIA
118909
Registered
PROFESSIONAL ENGINEER
2026.11.02

SHEET 14 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
www.huckabee-inc.com
800.687.1229

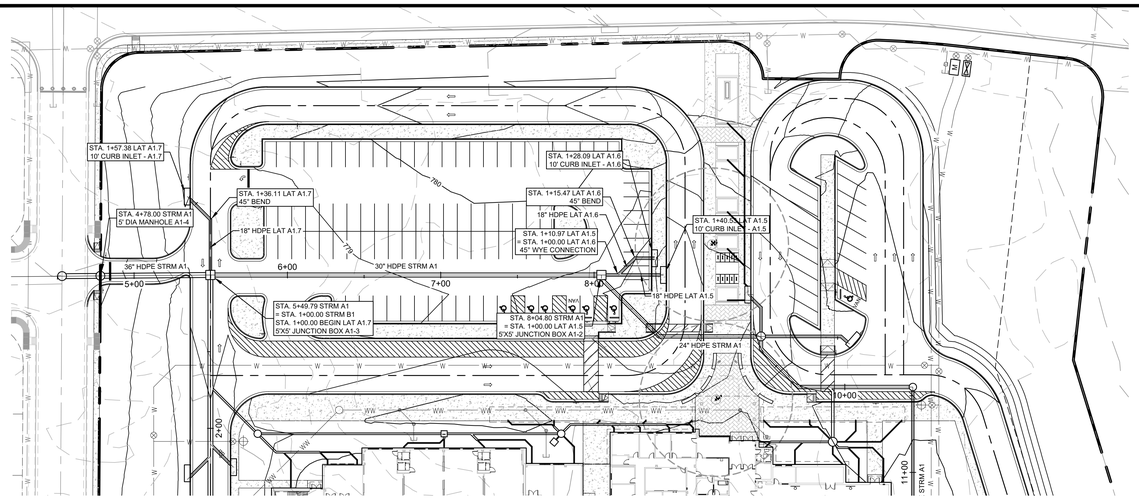
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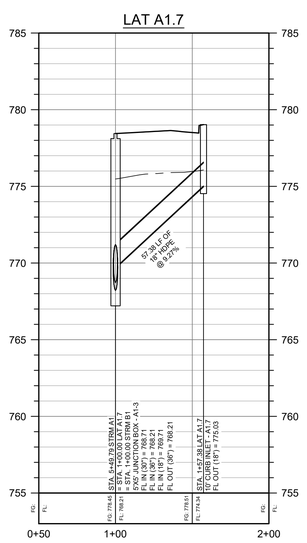
Job No. 01949-04-01
Sheet No. CS.08
Drawn By: MRC
Date: 10/08/2026

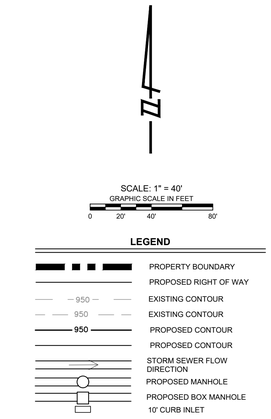
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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01 Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt
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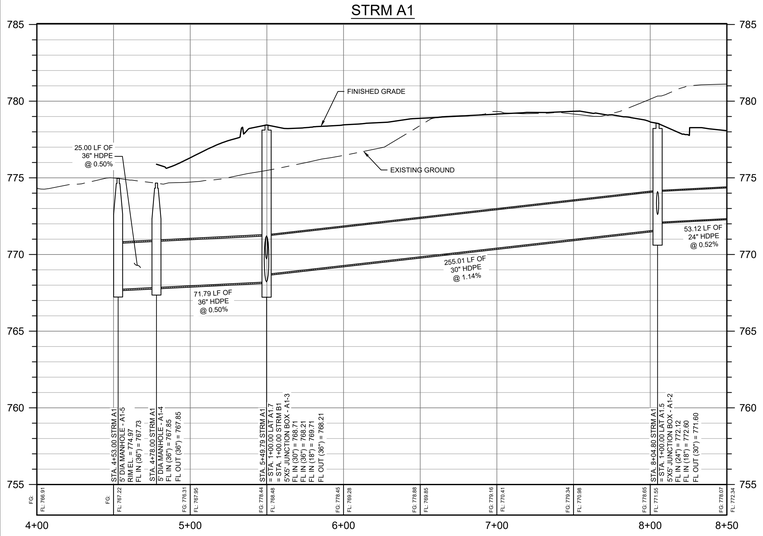




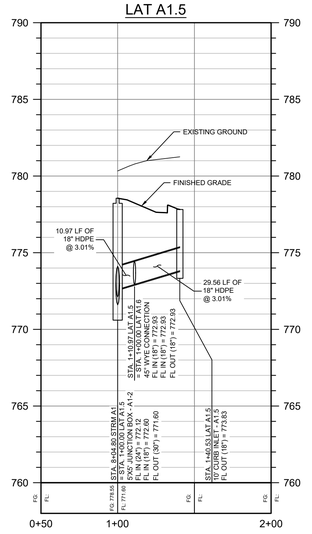
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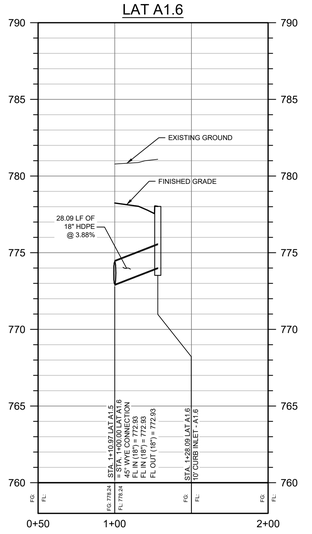
STRM A1



LAT A1.5



LAT A1.6



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TBPELS FIRM #2946
GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE A1 4+50 - 8+50 & LAT A1.5-A1.7

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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STATE OF TEXAS
AUGUSTINE A. VERRENGIA
118909
LICENSED PROFESSIONAL ENGINEER
2026.11.02

SHEET 15 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
www.huckabee-inc.com
800.687.1229

STORM LINE A1 4+50 - 8+50 & LAT A1.5-A1.7

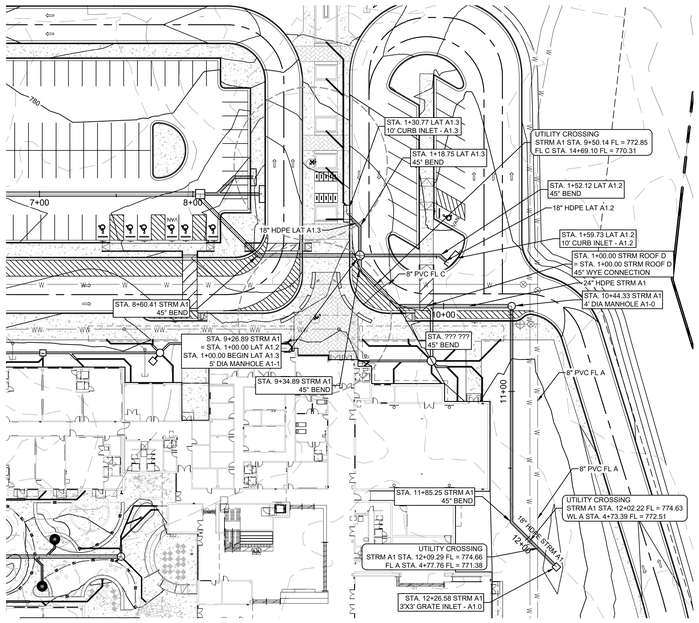
Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. CU.01
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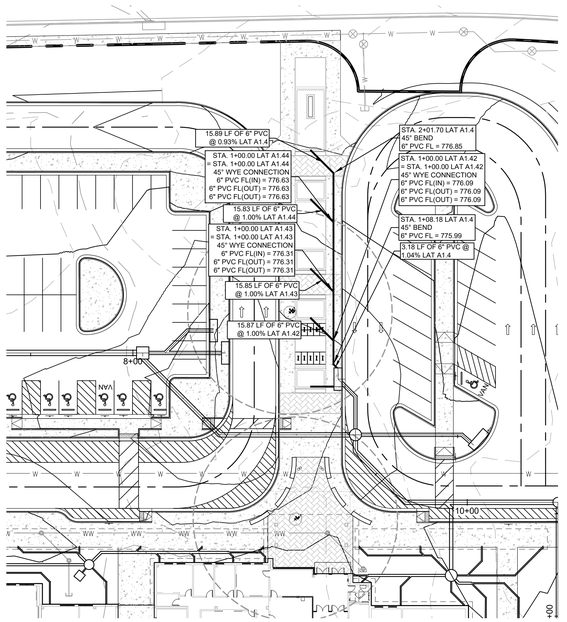
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SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'



SCALE: 1" = 30'
GRAPHIC SCALE IN FEET
0 15' 30' 60'

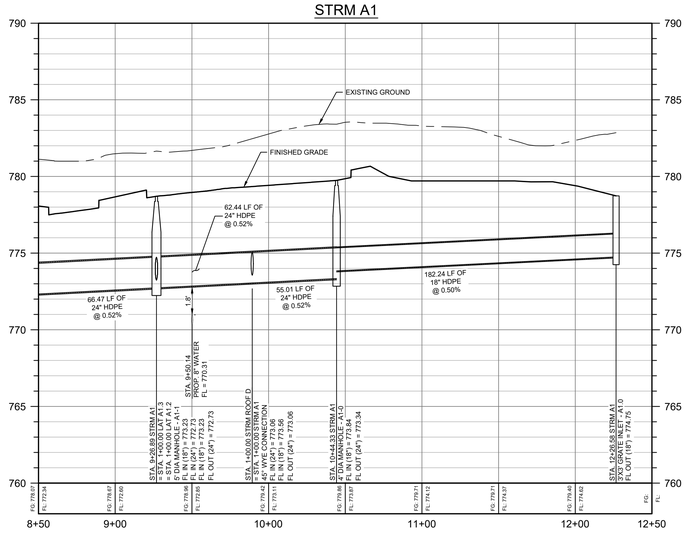
LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- 950 EXISTING CONTOUR
- 950 EXISTING CONTOUR
- 950 PROPOSED CONTOUR
- PROPOSED CONTOUR
- STORM SEWER FLOW DIRECTION
- PROPOSED MANHOLE
- PROPOSED BOX MANHOLE
- 10' CURB INLET

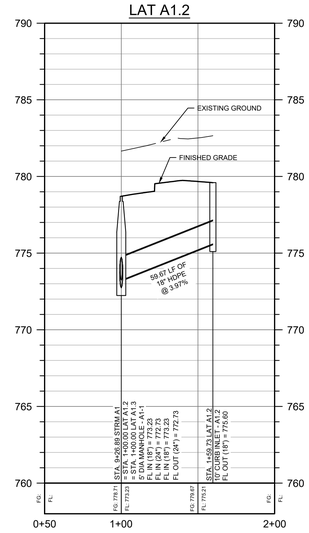
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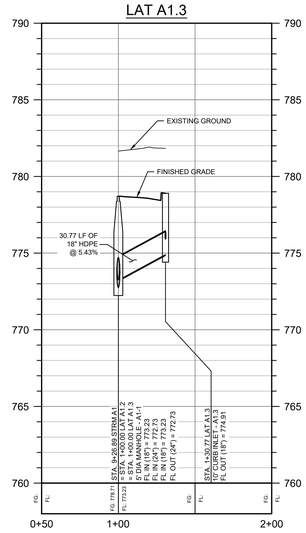
STRM A1



LAT A1.2



LAT A1.3



811
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GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE A1 8+50 - END &
LAT A1.2, A1.3

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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STATE OF TEXAS
AUGUSTINE A. VERRENGIA
118909
LICENSED
PROFESSIONAL ENGINEER
2026.11.02.

SHEET 16 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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800.687.1229

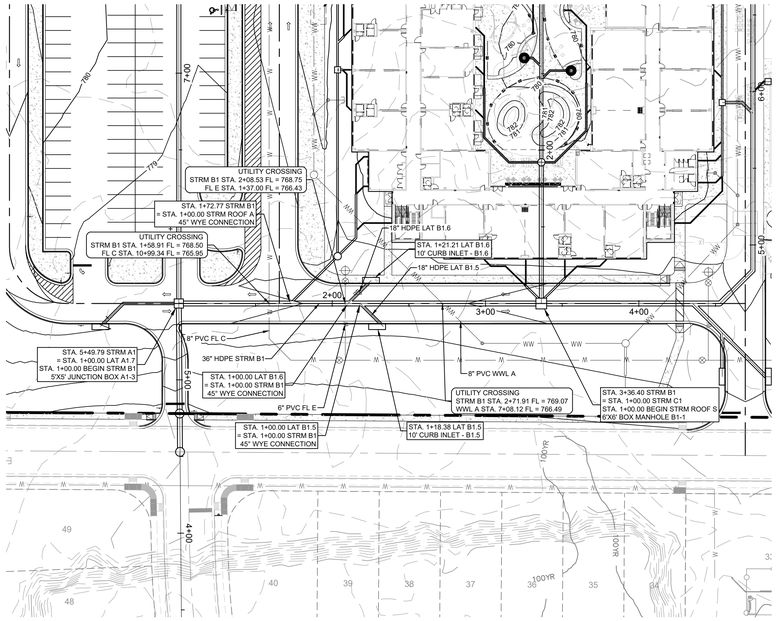
STORM LINE A1 8+50 -
END & LAT A1.2, A1.3

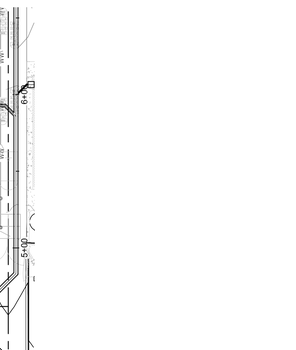
Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. CU.02

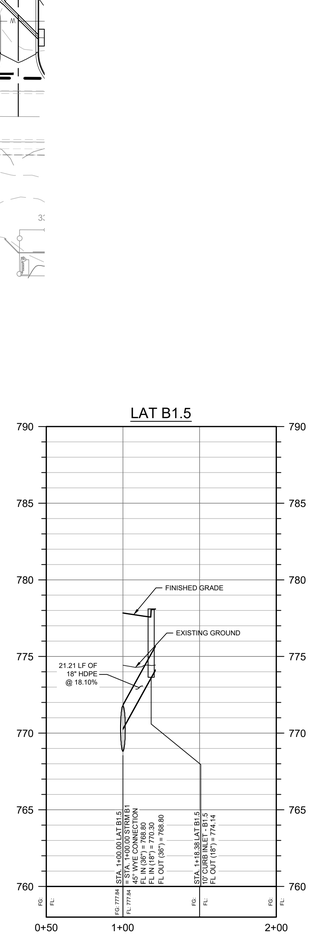
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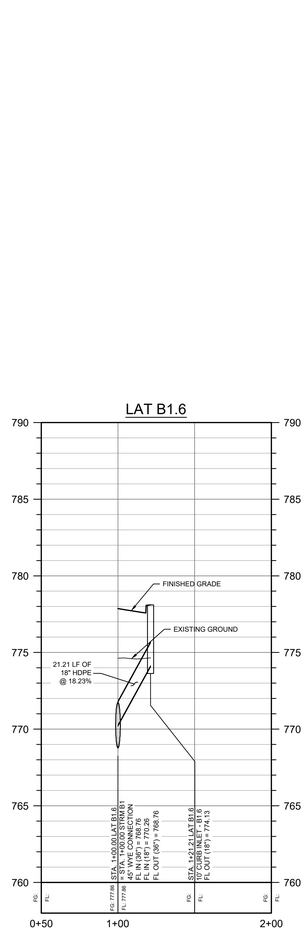
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LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- 950 EXISTING CONTOUR
- 950 EXISTING CONTOUR
- 950 PROPOSED CONTOUR
- PROPOSED CONTOUR
- STORM SEWER FLOW DIRECTION
- PROPOSED MANHOLE
- PROPOSED BOX MANHOLE
- 10' CURB INLET

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(512) 454-0571
FAX(512)454-0933
TBPELS FIRM #2946

GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE B1 1+00 - 4+00 &
LAT B1.5, B1.6

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

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AUGUSTINE A. VERRENGIA
118909
LICENSED
PROFESSIONAL
ENGINEER
2026.11.02

SHEET 17 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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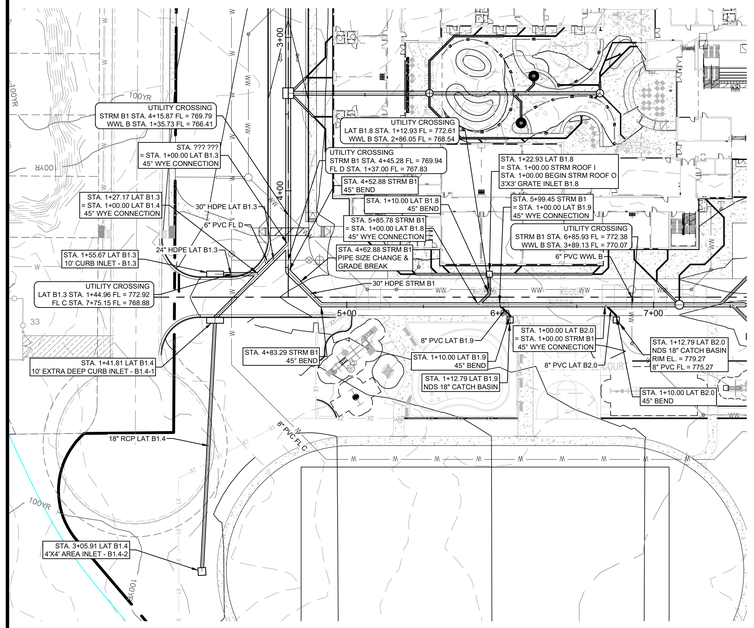
STORM LINE B1 1+00 - 4+00
& LAT B1.5, B1.6

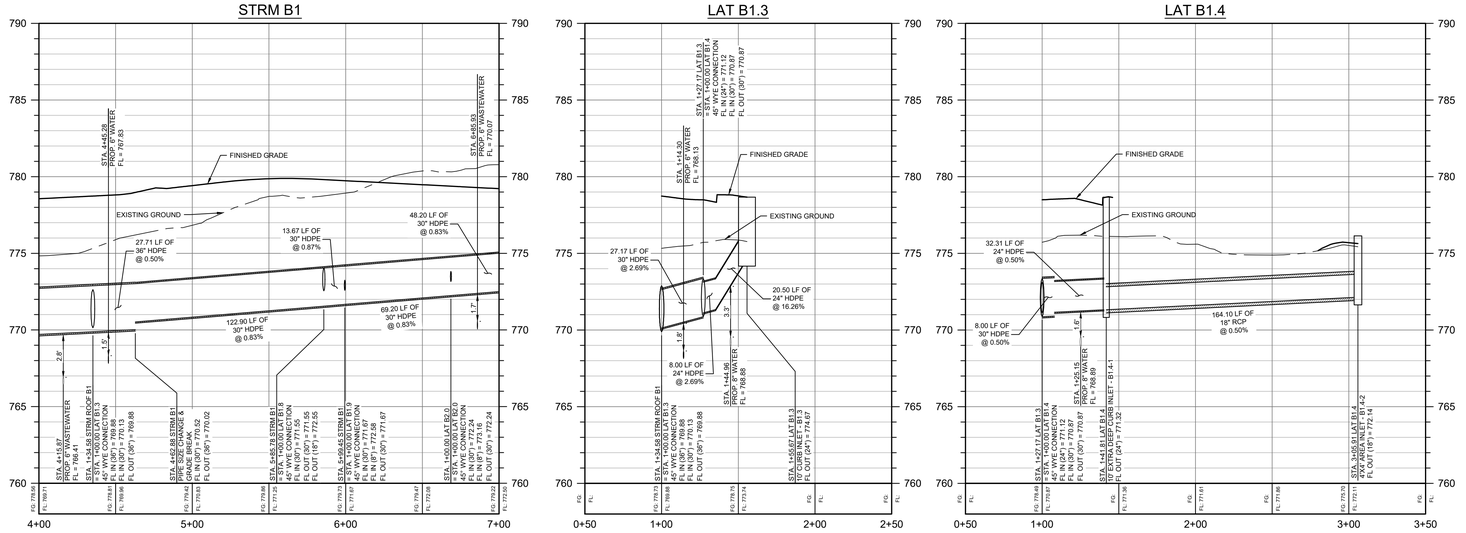
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Date: 10/08/2026
Sheet No. CU.03

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(512) 453-0767
FAX(512)454-9933
TBPELS FIRM #2946

SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- 950 EXISTING CONTOUR
- 950 EXISTING CONTOUR
- 950 PROPOSED CONTOUR
- PROPOSED CONTOUR
- STORM SEWER FLOW DIRECTION
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- PROPOSED BOX MANHOLE
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8. INLETS, MANHOLES, AND JUNCTION BOXES SHALL BE SET TO THE FINAL GRADES SHOWN ON THE GRADING PLAN. REPORT CONFLICTS BETWEEN GRADING AND DRAINAGE PLANS BEFORE INSTALLATION.
9. GRATES, LIDS, AND FRAMES WITHIN PAVED OR PEDESTRIAN AREAS SHALL BE SET FLUSH WITH THE ADJACENT FINISHED SURFACE AND ORIENTED AS SHOWN.
10. STORM-DRAIN PIPE CROSSINGS SHOWN IN PROFILE SHALL BE FIELD VERIFIED BEFORE CONSTRUCTION OF EITHER UTILITY. MAINTAIN THE CLEARANCES SHOWN OR NOTIFY THE ENGINEER.
11. CONTRACTOR SHALL COORDINATE LANDSCAPE DRAINS, TRENCH DRAINS, ROOF-DRAIN CONNECTIONS, AND DOWNSPOUTS WITH THE CIVIL, ARCHITECTURAL, PLUMBING, AND LANDSCAPE DRAWINGS.
12. BEFORE FINAL ACCEPTANCE, CLEAN AND INSPECT THE STORM-DRAIN SYSTEM AS REQUIRED BY THE OWNER OR REVIEWING AUTHORITY. REMOVE SEDIMENT AND DEBRIS AND REPAIR DAMAGED OR DEFICIENT WORK.
13. REFER TO SPECIFICATION SECTION 33 4000 AND THE DRAINAGE DETAILS FOR PIPE, JOINT, BEDDING, STRUCTURE, BACKFILL, AND INSTALLATION REQUIREMENTS.

811 Know what's below. Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE B1 4+00 - 7+00 &
LAT B1.3, B1.4, B1.8 - B2.0

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

AUGUSTINE A. VERRENGIA
118909
LICENSED PROFESSIONAL ENGINEER
2026.11.02

SHEET 18 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
www.huckabee-inc.com
800.687.1229

STORM LINE B1 4+00 - 7+00
& LAT B1.3, B1.4, B1.8 - B2.0

Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. CU.04

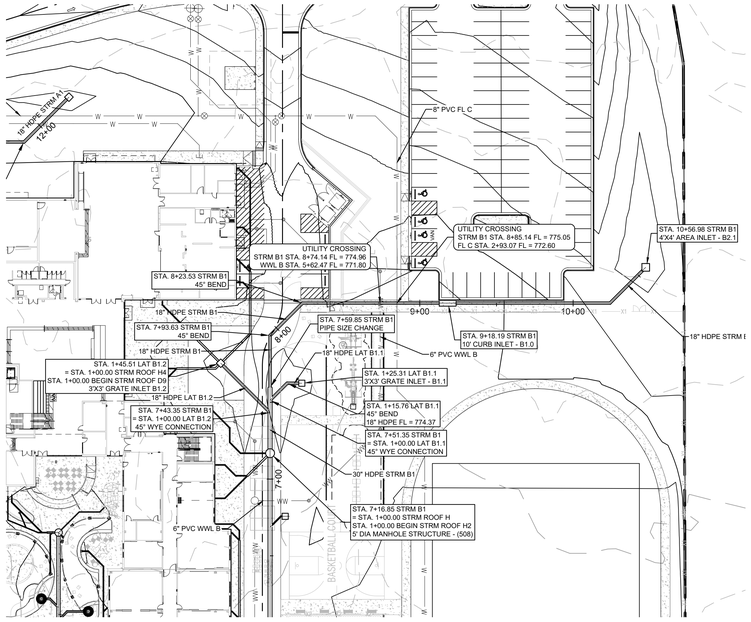
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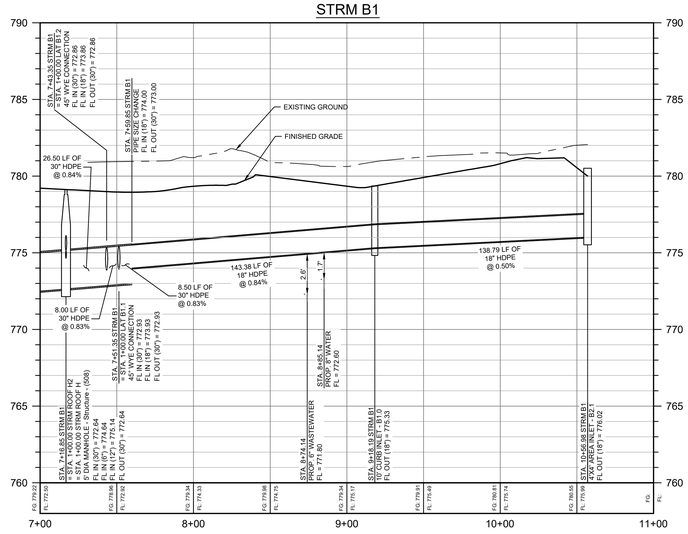
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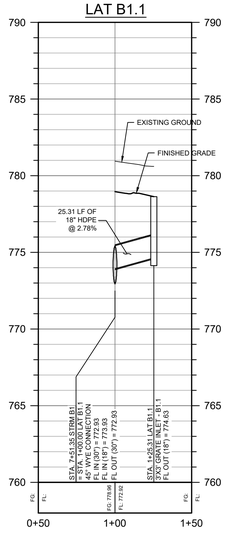
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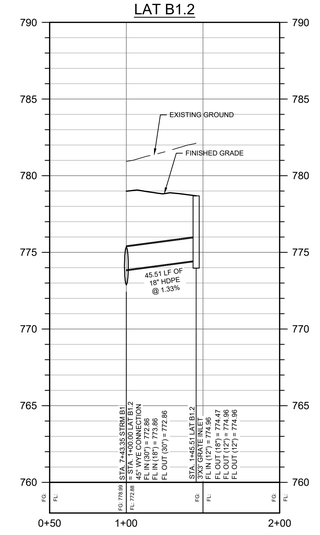
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SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- 950 EXISTING CONTOUR
- 950 EXISTING CONTOUR
- 950 PROPOSED CONTOUR
- PROPOSED CONTOUR
- STORM SEWER FLOW DIRECTION
- PROPOSED MANHOLE
- PROPOSED BOX MANHOLE
- 10' CURB INLET

NOTES:

1. STORM-DRAIN PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY ALL STORM-DRAIN STRUCTURE LOCATIONS, RIM ELEVATIONS, PIPE INVERTS, PIPE SIZES, AND CONNECTIONS BEFORE INSTALLATION.
3. BEGIN PIPE INSTALLATION AT THE DOWNSTREAM END AND PROCEED UPSTREAM UNLESS OTHERWISE ACCEPTED BY THE ENGINEER.
4. PIPE SHALL BE INSTALLED TO THE LINE AND GRADE SHOWN. FIELD ADJUSTMENTS TO PIPE SLOPE, SIZE, ALIGNMENT, OR STRUCTURE LOCATION REQUIRE ENGINEER REVIEW BEFORE INSTALLATION.
5. WHERE A PIPE CONNECTION TO A STRUCTURE IS FIELD CUT, THE PIPE SHALL BE NEATLY TRIMMED FLUSH WITH THE INTERIOR WALL AND THE ANNULAR SPACE SHALL BE SEALED WATERTIGHT.
6. DO NOT INSTALL PIPE IN STANDING WATER OR ON AN UNSTABLE TRENCH BOTTOM. DEWATER AND STABILIZE THE EXCAVATION BEFORE PIPE PLACEMENT.
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8334 N. Capital of Texas Hwy.
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Austin, Texas 78759
(512) 345-4471
FAX(512)454-9933
TBPELS FIRM #2946
GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE B1 7+00 - END &
LAT B1.1, B1.2

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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STATE OF TEXAS
AUGUSTINE A. VERRENOS
118909
LICENSED PROFESSIONAL ENGINEER
2026.11.02.

SHEET 19 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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800.687.1229

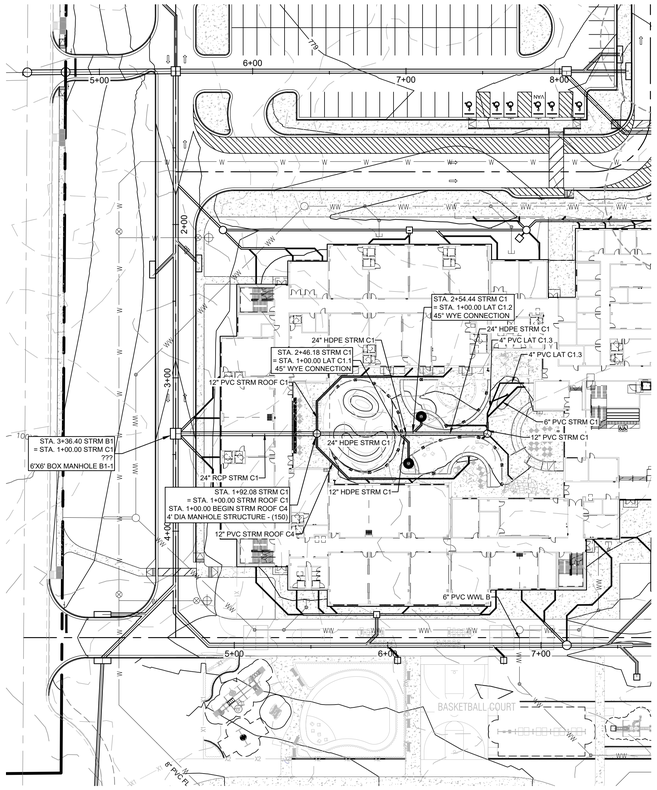
STORM LINE B1 7+00 - END & LAT B1.1, B1.2

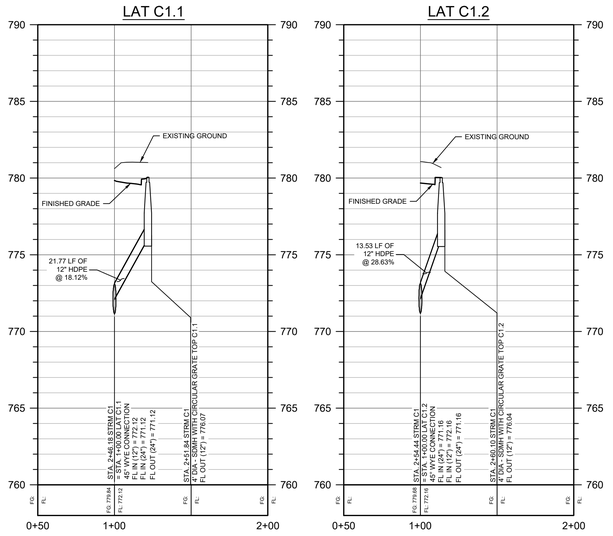
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Drawn By: MRC
Date: 10/08/2026
Sheet No. CU.05

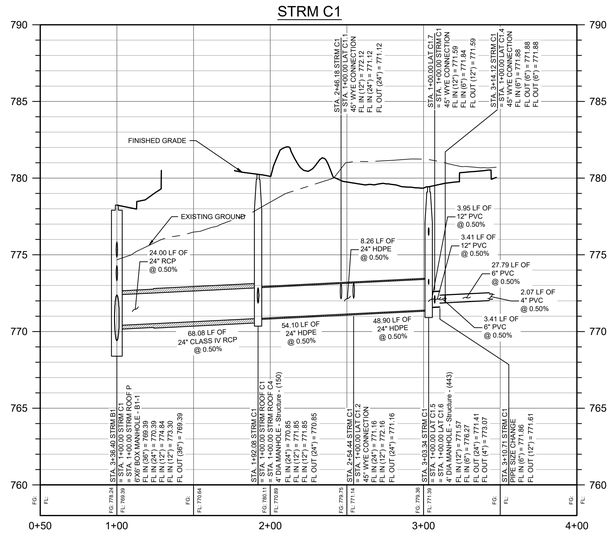
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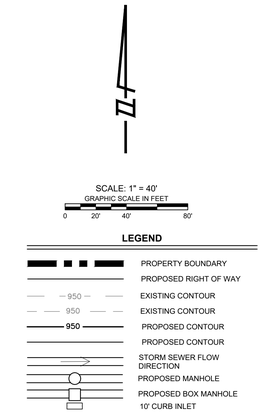
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NOTES:

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SITE PLAN - KEY NOTES

- (A) 6" X 6" WYE
- (B) 12" X 6" WYE
- (C) CONNECT TO STORM DRAIN DOWNSPOUT; REPLUMBING FOR CONTINUATION
- (D) FDC STANDPIPE CONNECTION; SEE MEP PLANS FOR CONTINUATION

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8334 N. Capital of Texas Hwy.
Suite 140
Austin, Texas 78759
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FAX(512)454-9933
TBPELS FIRM #2946
GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION
1	MC	10-28-26	ENTIRE NEW SHEET

ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

STORM LINE C1 1+00 - END & LAT C1.1, C1.2

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
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AUGUSTINE A. VERRENGIA
118909
LICENSED PROFESSIONAL ENGINEER
2026.11.02.

SHEET 20 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

Huckabee
www.huckabee-inc.com
800.687.1229

STORM LINE C1 1+00 - END & LAT C1.1, C1.2

Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
Sheet No. CU.06

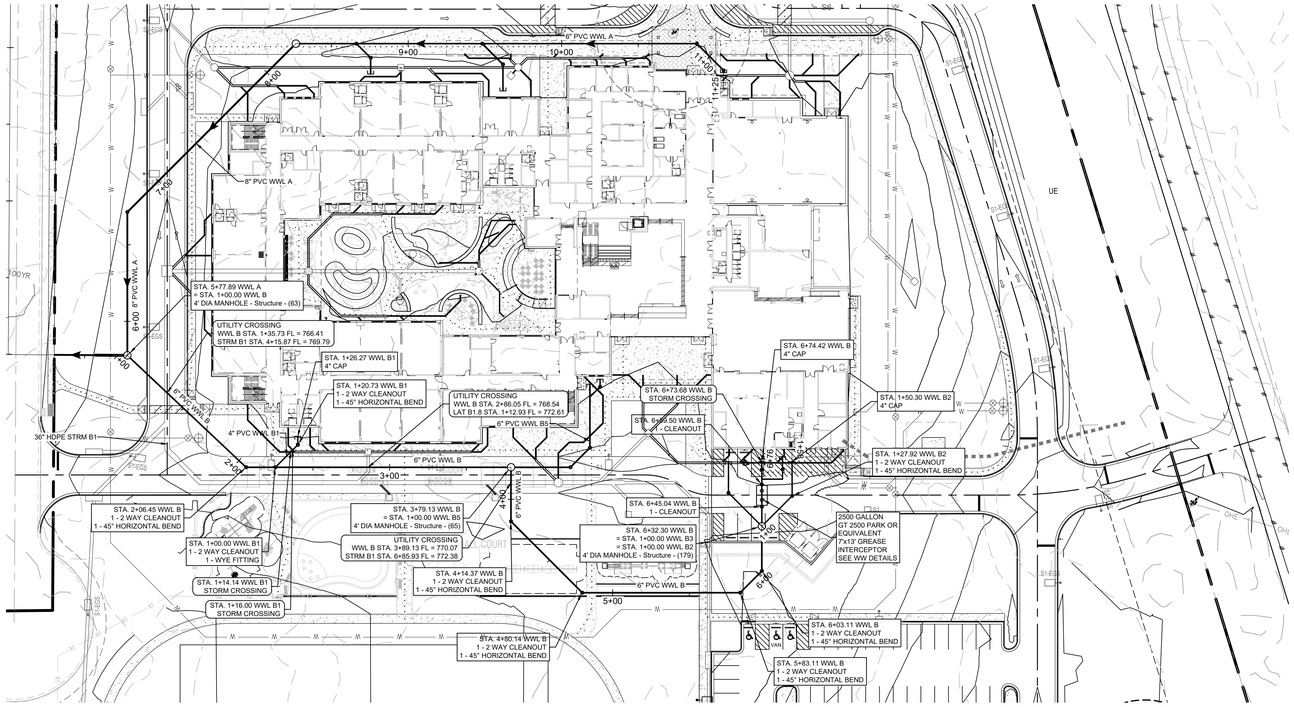
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LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- WASTEWATER LINE
- WASTEWATER MANHOLE
- DIRECTION OF FLOW

* ALL WASTEWATER SYMBOLS ARE NOT TO SCALE AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES.

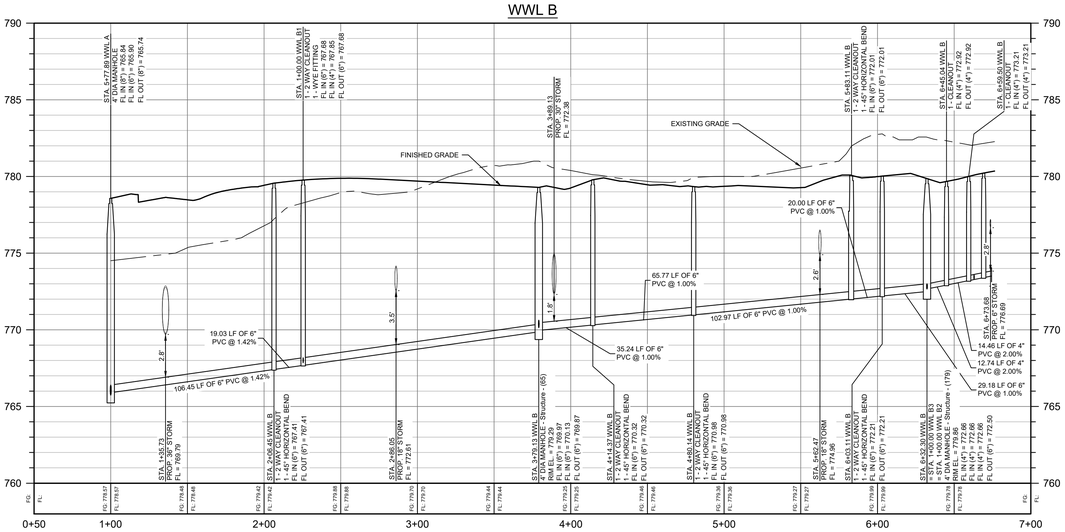
NOTES:

1. WASTEWATER PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE OR FITTING TO CENTER OF STRUCTURE OR FITTING UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, MATERIAL, INVERT, AND CONDITION OF THE EXISTING WASTEWATER STUB BEFORE CONSTRUCTING THE PROPOSED SYSTEM.
3. DO NOT BEGIN UPSTREAM WASTEWATER CONSTRUCTION UNTIL THE DOWNSTREAM CONNECTION ELEVATION HAS BEEN VERIFIED. CONTRACTOR MUST ALERT THE ENGINEER OF ANY DISCREPANCY.
4. PIPE SHALL BE INSTALLED TO THE LINE AND GRADE SHOWN. REVERSE SLOPE, FLAT SECTIONS, UNAPPROVED AND GRADE BREAKS ARE NOT PERMITTED.
5. CLEANOUTS SHALL BE SET PLUMB AND ADJUSTED FLUSH WITH THE FINAL SURFACE OR TO THE ELEVATION SHOWN. PROVIDE TRAFFIC-RATED CLEANOUT ASSEMBLIES WHERE LOCATED WITHIN PAVEMENT.
6. WASTEWATER MANHOLE RIMS AND CLEANOUTS SHALL BE COORDINATED WITH FINAL GRADING AND SHALL NOT BE LOCATED WITHIN ACCESSIBLE CURB RAMPS, ACCESS AISLES, DETECTABLE WARNINGS, OR VALLEY GUTTERS.
7. PIPE ENDS SHALL BE CAPPED OR PLUGGED WATERTIGHT WHEN INSTALLATION IS NOT IN PROGRESS. KEEP THE INTERIOR OF THE SYSTEM FREE OF SOIL, ROCK, CONCRETE, AND OTHER DEBRIS.
8. PIPE CONNECTIONS TO MANHOLES SHALL BE WATERTIGHT. PIPE ENDS SHALL BE CUT FLUSH WITH THE INTERIOR WALL AND THE INVERT SHALL BE FORMED TO PROVIDE A SMOOTH, CONTINUOUS FLOW PATH.
9. UTILITY CROSSINGS SHALL BE FIELD VERIFIED BEFORE INSTALLATION. WHERE REQUIRED CLEARANCE CANNOT BE ACHIEVED, STOP WORK AND NOTIFY THE ENGINEER.
10. MANHOLES SHALL BE ADJUSTED TO FINAL GRADE USING APPROVED PRECAST OR MANUFACTURED ADJUSTMENT SYSTEMS. BRICK AND MORTAR ADJUSTMENT COURSES ARE NOT PERMITTED.
11. COMPLETE LOW-PRESSURE AIR TESTING, MANDREL TESTING, MANHOLE TESTING, AND OTHER ACCEPTANCE TESTING BEFORE FINAL PAVEMENT OR AS REQUIRED BY ATLAS MUD NO. 1.
12. CONTRACTOR SHALL PROVIDE RECORD LOCATIONS AND INVERT ELEVATIONS FOR ALL PIPES, MANHOLES, CLEANOUTS, CAPS, AND CONNECTIONS.
13. REFER TO SPECIFICATION SECTIONS 33 3100 AND 33 3913 FOR PIPE MATERIALS, MANHOLES, INSTALLATION, TESTING, AND ACCEPTANCE.

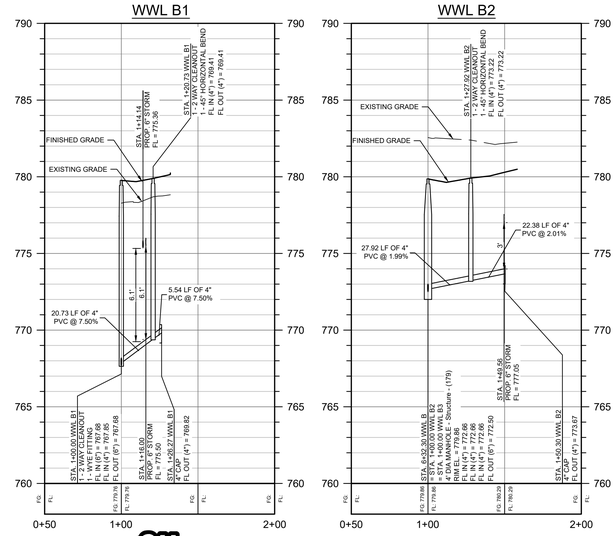
PROFILE LEGEND

- FINISHED GRADE
- PROPOSED SUBGRADE
- EXISTING GROUND
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE

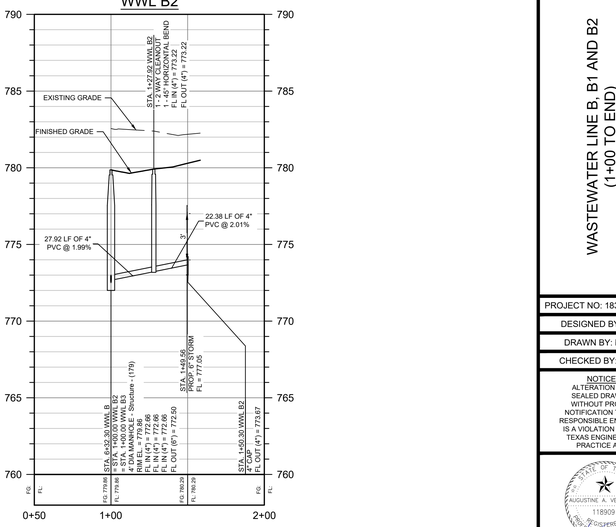
WWL B



WWL B1



WWL B2



811
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Suite 140
Austin, Texas 78759
(512) 345-4471
FAX(512)454-9933
TBPELS FIRM #2946
GRAY ENGINEERING

NO.	BY	DATE	REVISION DESCRIPTION

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

WASTEWATER LINE B, B1 AND B2
(1+00 TO END)

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

NOTICE:
ALTERATION OF A SEALED ED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

AUGUSTINE A. VERRENGIA
118909
Registered
Professional
ENGINEER
2026.11.02.

SHEET 29 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR., JARRELL, TX 76537

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800.687.1229

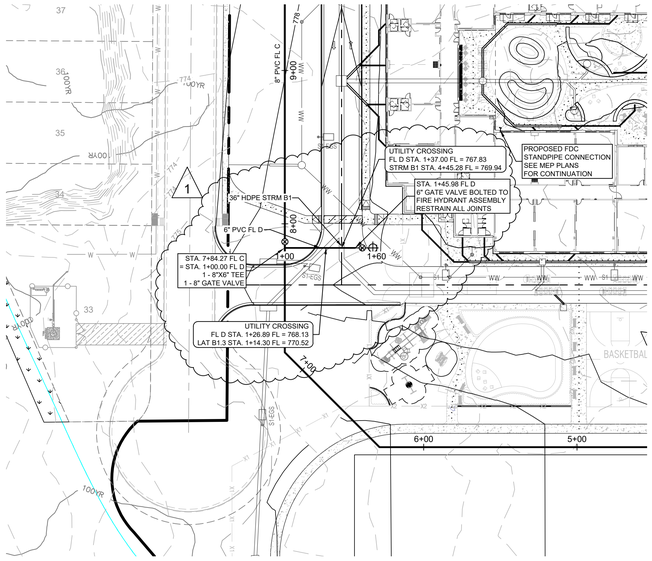
WASTEWATER
LINE B, B1 AND
B2 (1+00 TO END)

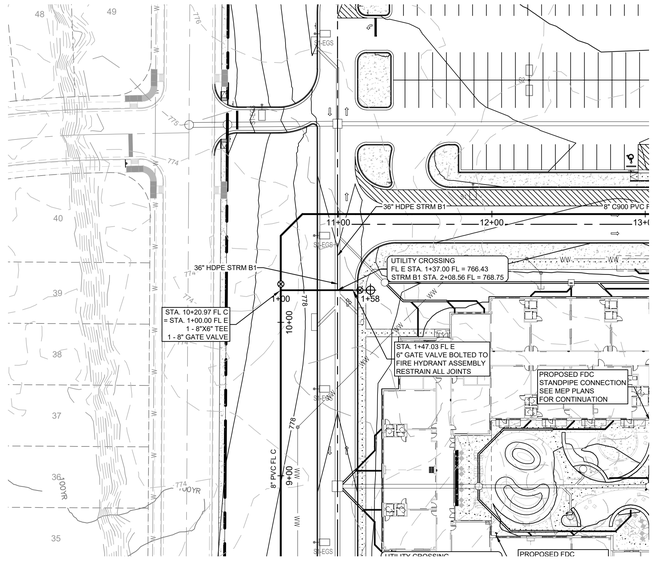
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Date: 10/08/2026
Sheet No. CU.15

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SCALE: 1" = 40'
GRAPHIC SCALE IN FEET
0 20' 40' 80'

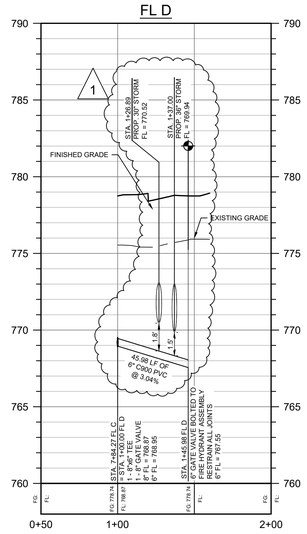
LEGEND

- PROPERTY BOUNDARY
- PROPOSED RIGHT OF WAY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED WATER LINE
- EXISTING WATER LINE
- FIRE HYDRANT ASSEMBLY (SEE NOTE BELOW)
- GATE VALVE
- PLUG
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- DOUBLE WASTEWATER SERVICE
- SINGLE WASTEWATER SERVICE

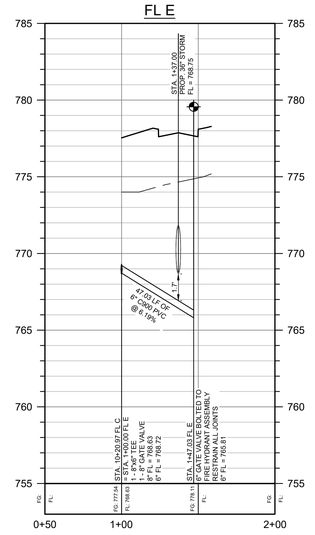
NOTES:

1. FIRE-LINE SYMBOLS AND APPURTENANCES ARE DIAGRAMMATIC AND ARE NOT SHOWN TO SCALE.
2. FIRE SERVICE MAINS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, ATLAS MUD NO. 1 REQUIREMENTS, WILLIAMSON COUNTY ESD NO. 5 REQUIREMENTS, AND THE PROJECT SPECIFICATIONS.
3. CONTRACTOR SHALL COORDINATE THE FIRE-LINE POINTS OF CONNECTION, BUILDING ENTRANCES, REMOTE FIRE DEPARTMENT CONNECTION, AND SPRINKLER RISER REQUIREMENTS WITH THE FIRE-PROTECTION CONTRACTOR BEFORE INSTALLATION.
4. PROVIDE RESTRAINED JOINTS OR THRUST RESTRAINT AT ALL FIRE-LINE FITTINGS, BENDS, TEES, DEAD ENDS, HYDRANTS, AND CONNECTIONS AS REQUIRED BY NFPA 24.
5. FIRE HYDRANTS SHALL BE INSTALLED PLUMB WITH THE PUMPER NOZZLE ORIENTED TOWARD THE FIRE-APPARATUS ACCESS ROUTE.
6. FIRE HYDRANT BARREL HEIGHT AND FINISHED GRADE SHALL BE COORDINATED SO THAT THE BREAKAWAY FLANGE, NOZZLE HEIGHT, DRAINAGE, AND OPERATING CLEARANCES MEET UTILITY AND FIRE-DEPARTMENT REQUIREMENTS.
7. GATE VALVES AND HYDRANTS SHALL BE LOCATED OUTSIDE CURB RAMPS, SIDEWALKS, VALLEY GUTTERS, ACCESS AISLES, AND VEHICLE-WHEEL PATHS WHERE PRACTICABLE.
8. THE DOUBLE CHECK DETECTOR ASSEMBLY, WATER METER, VAULT, ACCESS HATCHES, VALVES, AND CLEARANCES SHALL BE COORDINATED WITH ATLAS MUD NO. 1, THE FIRE CODE OFFICIAL, AND THE FIRE-PROTECTION CONTRACTOR BEFORE PROCUREMENT.
9. FIRE-LINE VAULTS AND ACCESS HATCHES SHALL BE LOCATED AND ORIENTED TO ALLOW TESTING, MAINTENANCE, REMOVAL, AND REPLACEMENT WITHOUT OBSTRUCTION BY LANDSCAPING, FENCES, OR OTHER SITE IMPROVEMENTS.
10. THE FIRE SERVICE MAIN SHALL BE HYDROSTATICALLY TESTED, FLUSHED, AND ACCEPTED IN ACCORDANCE WITH NFPA 24 AND THE REQUIREMENTS OF THE UTILITY PROVIDER AND FIRE CODE OFFICIAL BEFORE PLACEMENT INTO SERVICE.
11. ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF WHETHER THE SYSTEM OTHERWISE SATISFIES THE ALLOWABLE LEAKAGE TEST.
12. DO NOT CONNECT OR PLACE THE FIRE-PROTECTION SYSTEM INTO SERVICE UNTIL REQUIRED BACKFLOW TESTING, CERTIFICATION, FLUSHING, FIRE-LINE TESTING, AND APPROVALS HAVE BEEN COMPLETED.
13. CONTRACTOR SHALL PROVIDE RECORD LOCATIONS AND TOP-OF-PIPE ELEVATIONS FOR FIRE MAINS, VALVES, FITTINGS, HYDRANTS, VAULTS, AND BUILDING CONNECTIONS.
14. REFER TO SPECIFICATION SECTION 33 1100 FOR FIRE-SERVICE MATERIALS, HYDRANTS, BACKFLOW PREVENTION, INSTALLATION, TESTING, AND ACCEPTANCE.

FL D



FL E



811 Know what's below. Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

PROFILE LEGEND

- FINISHED GRADE
- PROPOSED SUBGRADE
- EXISTING GROUND
- PROPOSED FILL
- PROPOSED WATER LINE
- STEEL ENCASEMENT WITH SPACERS
- FIRE HYDRANT
- GATE VALVE
- PLUG

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1	MC	10-28-26	REVISED STORM CROSSING UPDATES

ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

FIRELINE E AND D (1+00 TO END)

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

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STATE OF TEXAS
AUGUSTINE A. VERRENDA
118909
LICENSED
PROFESSIONAL ENGINEER
2026.11.02

SHEET 32 OF 48

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
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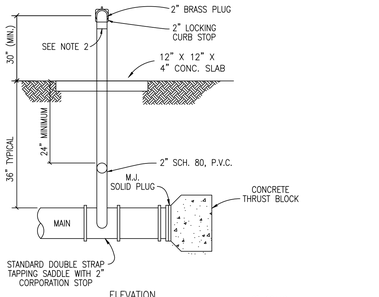
FIRELINE E AND D (1+00 TO END)

Job No.	Sheet No.
01949-04-01	CU.18
Drawn By: MRC	
Date: 10/08/2026	

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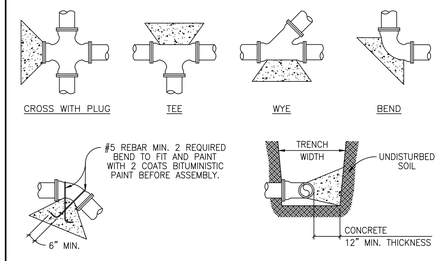
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NOTE:
1. ATTACH FIRE HYDRANT CONNECTION AT THE END OF THE BLOW OFF VALVE.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **STANDARD BLOW-OFF**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W09 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



ALL THRUST BLOCKS SHALL BE FORMED, LAID FORMS SHALL BE INSPECTED BY THE CITY OF GEORGETOWN PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY THE CITY OF GEORGETOWN PRIOR TO COVERING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTION (THRUST) BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER. CONCRETE SHALL HAVE 2,500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS, AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUEEN OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

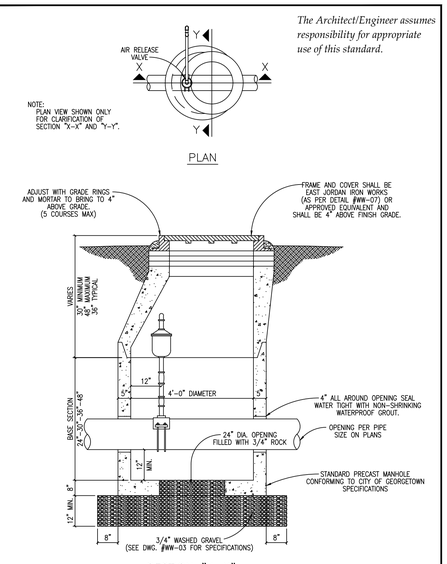
PIPE SIZE	THRUST BLOCK AREA REQUIRED	PIPE SIZE	THRUST BLOCK AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	VALUES ARE FOR 90° BENDS, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 3.3% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES, THE AREA REQUIRED IS IN DIRECT PROPORTION.
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

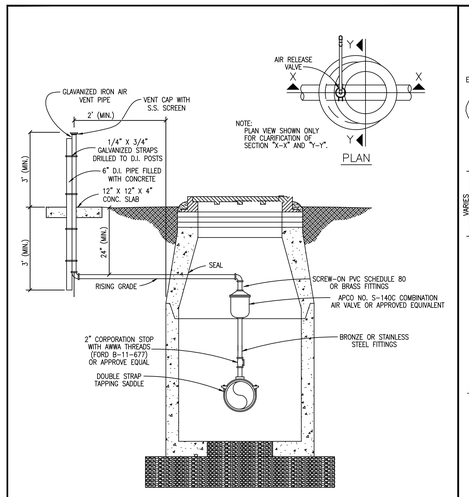
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **TYPICAL THRUST BLOCKS FOR WATER AND FORCE MAIN**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W11 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB

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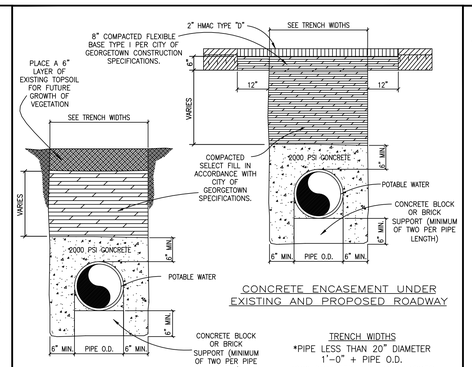
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	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **STANDARD AIR RELEASE VALVE FOR WATER MAIN**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W12 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



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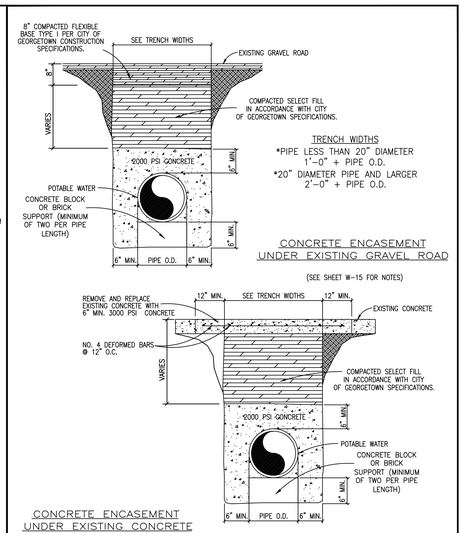
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **STANDARD AIR RELEASE VALVE FOR WATER MAIN**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W13 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



NOTES:
1. ENCASEMENT TO BE CONSTRUCTED WHERE SEWER LINES PASS OVER OR UNDER A WATER MAIN WITH LESS THAN TWELVE INCHES (12") CLEAR DISTANCE.
2. AT CROSSINGS, ENCASEMENT SHALL EXTEND TEN FEET (10'-0") ON EITHER SIDE OF CROSSING.
3. BEGINNING AND ENDING OF ENCASEMENTS SHALL NOT BE MORE THAN SIX INCHES (6") FROM A PIPE JOINT.
4. WHERE WATER AND SEWER LINES PARALLEL WITH LESS THAN TEN FEET (10'-0") HORIZONTAL CLEAR DISTANCE, NO ENCASEMENT IS REQUIRED IF BOTH LINES ARE 150 PSI PRESSURE PIPE.
5. RAW WATER MAINS SHALL BE 150 PSI PRESSURE RATED WHEN PARALLELING POTABLE WATER MAINS WITH LESS THAN NINE FEET (9'-0") HORIZONTAL CLEARANCE.
6. WHERE MINIMUM COVER, THIRTY SIX INCHES (36") IS NOT AVAILABLE, ENCASEMENT WILL BE REQUIRED.
7. ALL CONCRETE ENCASEMENTS MUST BE FORMED AND INSPECTED BY THE CITY OF GEORGETOWN INSPECTOR PRIOR TO PLACING CONCRETE AND BACKFILLING.
8. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL (SEE C9 FLOWABLE BACKFILL FOR THE SPECIFICATION).

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **CONCRETE ENCASEMENT DETAIL**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W15 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



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	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS **CONCRETE ENCASEMENT DETAIL**	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W16 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB

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ATLAS RANCH
ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

WATER DETAILS
(SHEET 2 OF 3)

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

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AUGUSTINE A. VERRENDA
118909
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PROFESSIONAL ENGINEER
2026.11.02

SHEET 45 OF 48

Revision / Date

Project:
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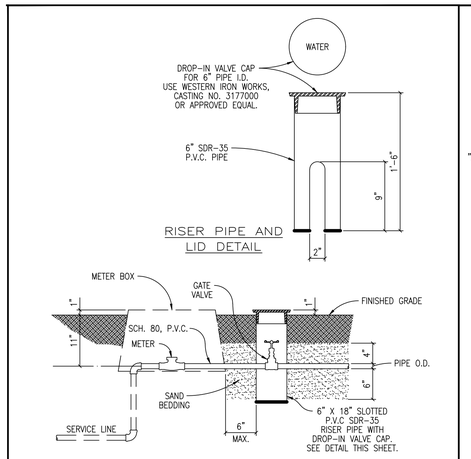
WATER DETAILS
(SHEET 2 OF 3)

Job No. 01949-04-01
Drawn By: MRC
Date: 10/08/2026
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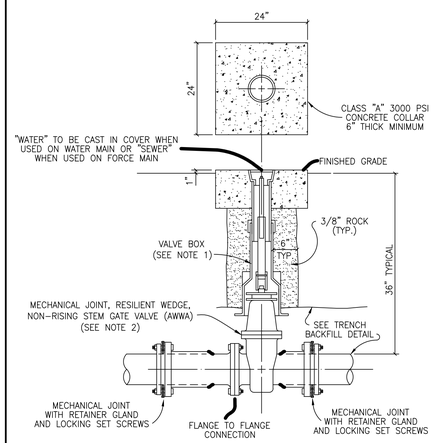
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NOTES:
1. GATE VALVE SHALL BE A HAMMOND IB645, CLASS 125, BRONZE GATE, SCREWED BONNET, NON-RISING STEM, SOLID WEDGE DISC WITH THREADED ENDS OR APPROVED EQUAL.
2. DROP-IN VALVE CAP SHALL BE CAST WITH THE WORD "WATER" ON TOP.
3. USE SCHEDULE 80, M.I.P. ADAPTER AS REQUIRED.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

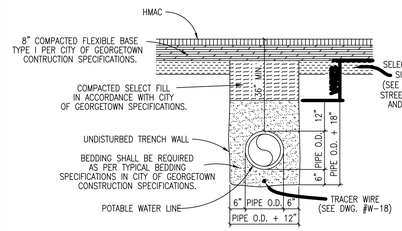
GEORGETOWN TEXAS	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CUSTOMER'S CUT-OFF	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W20 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



NOTES:
1. SEE VALVE SETTING DETAIL, DWG. #W-07.
2. ACCEPTABLE GATE VALVES ARE:
   A. MUELLER – 2360 SERIES
   B. CLOW

The Architect/Engineer assumes responsibility for appropriate use of this standard.

GEORGETOWN TEXAS	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS INLINE VALVE INSTALLATION	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W21 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB

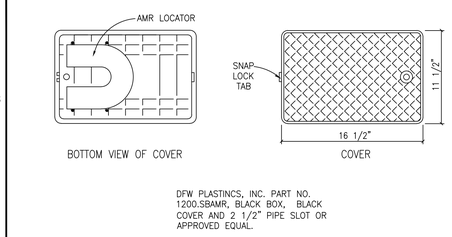


TRENCH WIDTHS
*PIPE LESS THAN 20" DIAMETER
1'-0" + PIPE O.D.
*20" DIAMETER PIPE AND LARGER
2'-0" + PIPE O.D.

NOTES:
1. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF GEORGETOWN CONSTRUCTION SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL (SEE C9 FLOWABLE BACKFILL FOR THE SPECIFICATION).

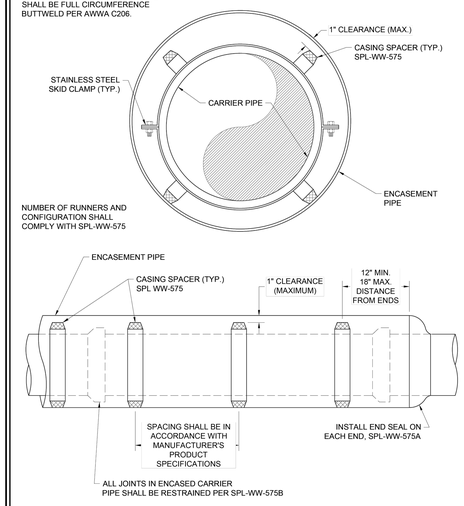
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GEORGETOWN TEXAS	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W22 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



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GEORGETOWN TEXAS	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS METER BOX (NON-TRAFFIC AREAS)	REVISION NOTE: ADOPTED 6/21/2006 DRAWING NAME: W23 SCALE: NTS DATE: 1/2003 DRAWN BY: MRS APPROVED BY: TRB



APPLICABLE REFERENCES:
STANDARD SPECIFICATION: ITEM 505.4 & 510.3 (19)

CITY OF AUSTIN AUSTIN WATER		ENCASEMENT PIPE DETAIL WITH CASING SPACERS	
JEFF A. KYLE	02/22/2021 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 501-AW-01 1 OF 1

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ATLAS RANCH ELEMENTARY SCHOOL
FOR JARRELL ISD
WILLIAMSON COUNTY, TEXAS

WATER DETAILS (SHEET 3 OF 3)

PROJECT NO: 1836-12155
DESIGNED BY: MRC
DRAWN BY: MRC
CHECKED BY: AV

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AUGUSTINE A. VERRENGIA 118909 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS
2024.11.02

SHEET 46 OF 48

Revision / Date

Project: ATLAS RANCH ELEMENTARY SCHOOL FOR JARRELL ISD
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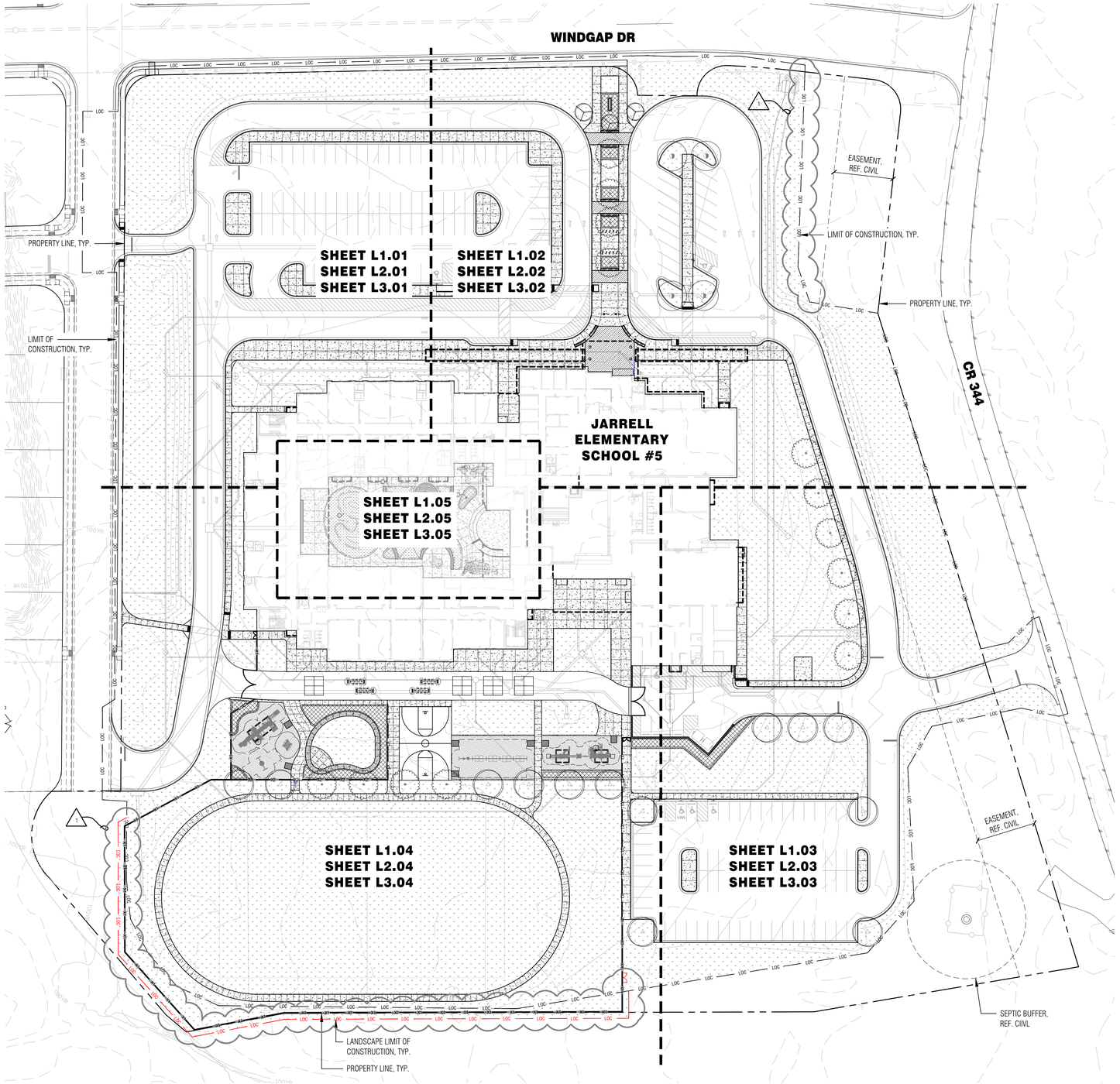
WATER DETAILS (SHEET 3 OF 3)

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Sheet No. CU.27

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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SCOPES. IF LANDSCAPE CONTRACTOR FINDS CONFLICTS OR REASONS THESE PLANS CANNOT BE IMPLEMENTED DUE TO EXISTING CONDITIONS OR CONFLICTS WITH EXISTING IMPROVEMENTS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION AND CLARIFICATION PRIOR TO CONSTRUCTION OF WORK.
2. CONTRACTOR SHALL BE FAMILIAR WITH ALL EXISTING SITE CONDITIONS, INCLUDING EXISTING AND NEW UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR BODILY INJURY AND/OR ANY COST INCURRED DUE TO DAMAGE TO THE OWNER'S PROPERTY OR UTILITIES.
4. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION TO ENSURE UTILITIES ARE NOT DISTURBED. REFER TO CIVIL DRAWINGS FOR ALL SITE UTILITIES.
5. LANDSCAPE DRAWINGS UTILIZE THE BASE INFORMATION IMPORTED FROM CIVIL AND ARCHITECTURAL DRAWINGS. REFER TO THESE DRAWINGS FOR SUPPLEMENTAL INFORMATION. IF THERE ARE CONFLICTS OR INCONSISTENCIES NOTED BETWEEN THE LANDSCAPE DRAWINGS AND THE CIVIL OR ARCHITECTURAL DOCUMENTS, NOTIFY THE LANDSCAPE ARCHITECT FOR INSTRUCTION AND CLARIFICATION PRIOR TO CONSTRUCTION OF WORK.
6. ALL LANDSCAPE IMPROVEMENTS (PLANTING AND HARDSCAPE) SHALL BE PROTECTED AND MAINTAINED IN HEALTHY AND UNDAMAGED CONDITION. ANY DAMAGE OR DECLINE IN LANDSCAPE OR HARDSCAPE DURING THE COURSE OF INSTALLATION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE AND COMPLETION.

DRAWING KEY

SYMBOL	DESCRIPTION
	PROPERTY LINE
LOC	LIMIT OF CONSTRUCTION, REF. CIVIL
	MATCHLINE
	PROPOSED GRADING, REF. CIVIL
	EXISTING GRADING, REF. CIVIL
	EXISTING TREE TO REMAIN, PROTECT IN PLACE

LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
1. TREES SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET, REF. LANDSCAPE SHEETS

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

REGISTERED LANDSCAPE ARCHITECT
MARISSA MORRIS
2024
STATE OF TEXAS
10/08/2026

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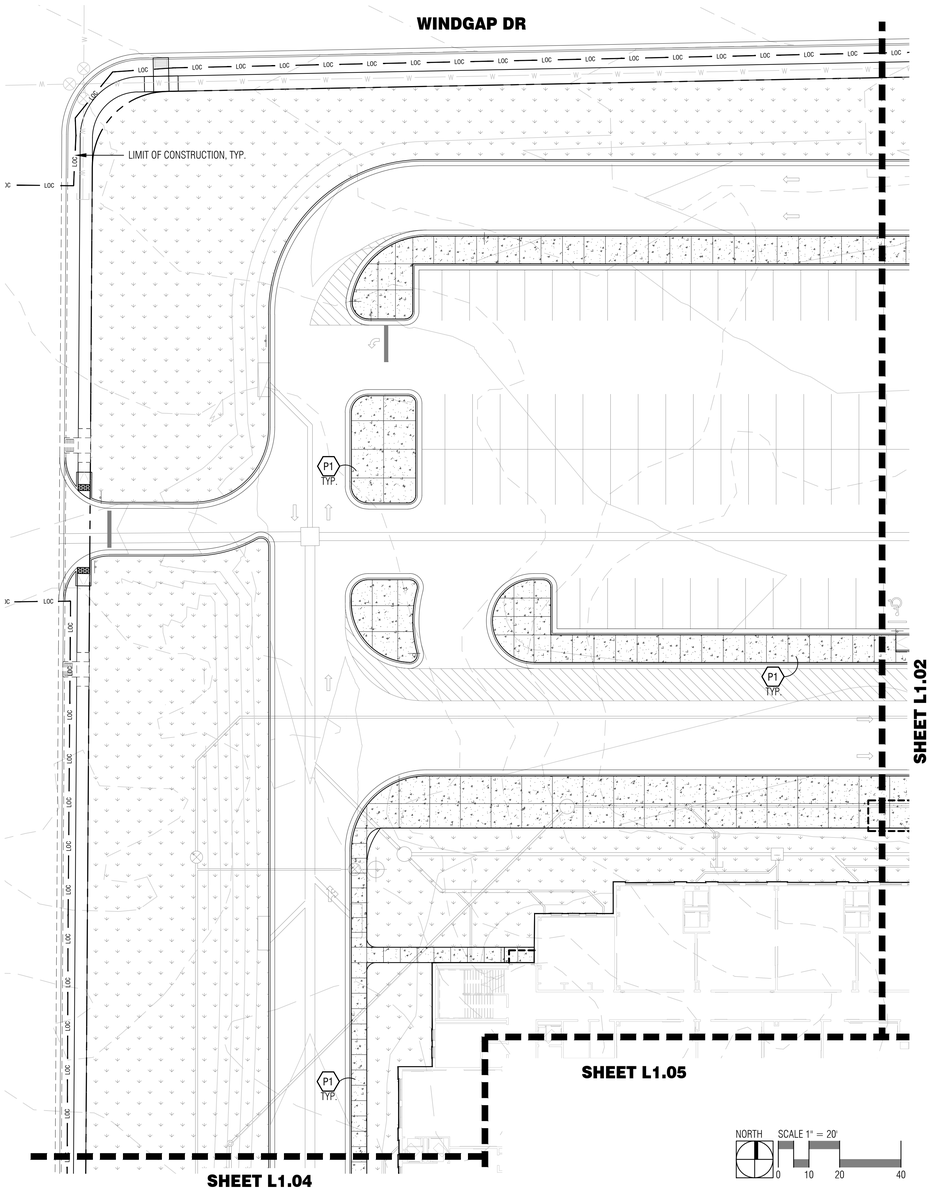
OVERALL PLAN

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FENCING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
F1	X1	6' HT. BLACK VINYL COATED CHAIN LINK FENCE	1/L1.12
F2	X2	4' HT. BLACK VINYL COATED CHAIN LINK FENCE	2/L1.12
F3		6' HT. X 6' W DOUBLE PEDESTRIAN BLACK VINYL COATED CHAIN LINK GATE TO MATCH FENCE	3/L1.12
F4		4' HT. X 4' W SINGLE PEDESTRIAN BLACK VINYL COATED CHAIN LINK GATE GATE TO MATCH FENCE	4/L1.12
F5		6' HT. X 10' W BLACK VINYL COATED CHAIN LINK MAINTENANCE GATE TO MATCH FENCE	5/L1.12
F6		6' HT. X 24' W BLACK VINYL COATED CHAIN LINK VEHICULAR GATE TO MATCH FENCE WITH PADLOCK & KNOX LOCK	6/L1.12

LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
1. TREES SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET, REF. LANDSCAPE SHEETS

DRAWING KEY

SYMBOL	DESCRIPTION
	PROPERTY LINE
LOC	LIMIT OF CONSTRUCTION, REF. CIVIL
	MATCHLINE
	PROPOSED GRADING, REF. CIVIL
	EXISTING GRADING, REF. CIVIL
	EXISTING TREE TO REMAIN, PROTECT IN PLACE

CONSTRUCTION KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT FINISH:LIGHT BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		INTEGRAL COLORED CONCRETE PAVEMENT FINISH:LIGHT BROOM, COLOR: BLUE	REF. CIVIL
P3		SANDBLASTED CONCRETE WITH BOMANITE MICRO-TOP XT COATING. MANUFACTURER: TEXAS BOMANITE CONTACT: DARIAN DAWKINS, (512)491-0202	REF. CIVIL
P4		PAVERS ON CONCRETE MANUFACTURER: KEYSTONE HARDSCAPES PAVER SIZE: 4" x 8" x 60MM FINISH: REF. SPECS COLOR: TAN	1/L1.10
P5		CONCRETE RAMP AT PLAYGROUND	1/L1.11
P6		12" DEPTH ENGINEERED WOOD FIBER MULCH	PER MANU.
P7		SYNTHETIC GRASS MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	4/L1.10
P8		SYNTHETIC GRASS BERM MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	5/L1.11
P9		TACTILE PAVING	REF. CIVIL
P10		NOT USED	
P11		LABRYNTH MANUFACTURER: LABRYNTH COMPANY PRODUCT: CHELSEA A LA CHARTRES	REF. SPECS
E1		CONCRETE MOW BAND	2/L1.10
E2		4" RAISED CONCRETE CURB	3/L1.10
E3		PAVER RESTRAINT	1/L1.10
W1		STONE VENEER SEAT WALL	6/L1.10
D1		LANDSCAPE DRAIN	5L1.10
D2		SUBGRADE DRAINAGE AT SYNTHETIC GRASS 10" EZ-FLOW DRAINAGE BUNDLE BY NDS OR APPROVED EQUAL REF. CIVIL FOR STORM TIE IN	4/L1.10
R1		HANDRAIL AT STEPS FINISH: GALVANIZED	7/L1.10
R2		HANDRAIL AT RAMP FINISH: GALVANIZED	8/L1.10
R3		GUARDRAIL FINISH: GALVANIZED	3 & 4/L1.11
S1		CANTILEVER DISC SHADE STRUCTURE MANUFACTURER: USA SHADE PRODUCT: TBD	1/L1.14 & 1/L1.15
S2		KIDS 2-5 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.
S3		KIDS 6-12 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.

NOTES:
1. CONTRACTOR TO PROVIDE A 5' X 5' MOCKUP OF EACH PAVEMENT TYPE FOR REVIEW BY LANDSCAPE ARCHITECT AND ARCHITECT PRIOR TO FINAL INSTALLATION.

SITE FURNISHING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
SF1		TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: PARC CENTRE 28" ROUND COLOR: SAGE QTY: 13	REF. 129300 SPECS *OFOI*
SF2		CHAIR MANUFACTURER: LANDSCAPE FORMS PRODUCT: 21 CHAIR, QTY: 36 COLOR: SAGE FRAME & BLUE ASH SEAT	REF. 129300 SPECS *OFOI*
SF3		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI x 2 COLOR: BLUE ASH QTY: 3	REF. 129300 SPECS *OFOI*
SF4		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI W/ ADA SPACE COLOR: BLUE ASH QTY: 1	REF. 129300 SPECS *OFOI*
SF5		LOUNGE CHAIR MANUFACTURER: LOLL PRODUCT: KIDS ADIRONDACK CHAIR COLOR: NAVY BLUE QTY: 25	REF. 129300 SPECS *OFOI*
SF6		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST WITH (2) 94" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 4	REF. 129300 SPECS *OFOI*
SF7		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST TABLE WITH (4) 46" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 2	REF. 129300 SPECS *OFOI*
SF8		BENCH MANUFACTURER: ANOVA PRODUCT: VIBE RECYCLED PLASTIC CONTOUR, COLOR: SAGE FRAME & BRAZILIAN WALNUT PLASTIC SEAT QTY: 8	REF. 129300 SPECS *OFOI*
SF9	RL	TRASH RECEPTACLES MANUFACTURER: LANDSCAPE FORMS PRODUCT: CHASE PARK LITTER COLOR: MERCURY METALIC QTY: 2	REF. 129300 SPECS & 9/L1.12 *OFOI*
SF10		BIKE RACK MANUFACTURER: LANDSCAPE FORMS PRODUCT: LOOP BIKE RACK COLOR: MERCURY METALIC	REF. 129300 SPECS 8/L1.12

NOTES:
1. FINAL LOCATIONS OF FURNITURE TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER ON SITE PRIOR TO FIXING IN PLACE.
OFOI - OWNER FURNISHED, OWNER INSTALLED

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

VANESSA M. CHANEY
REGISTERED LANDSCAPE ARCHITECT
2499
STATE OF TEXAS
10/08/2026

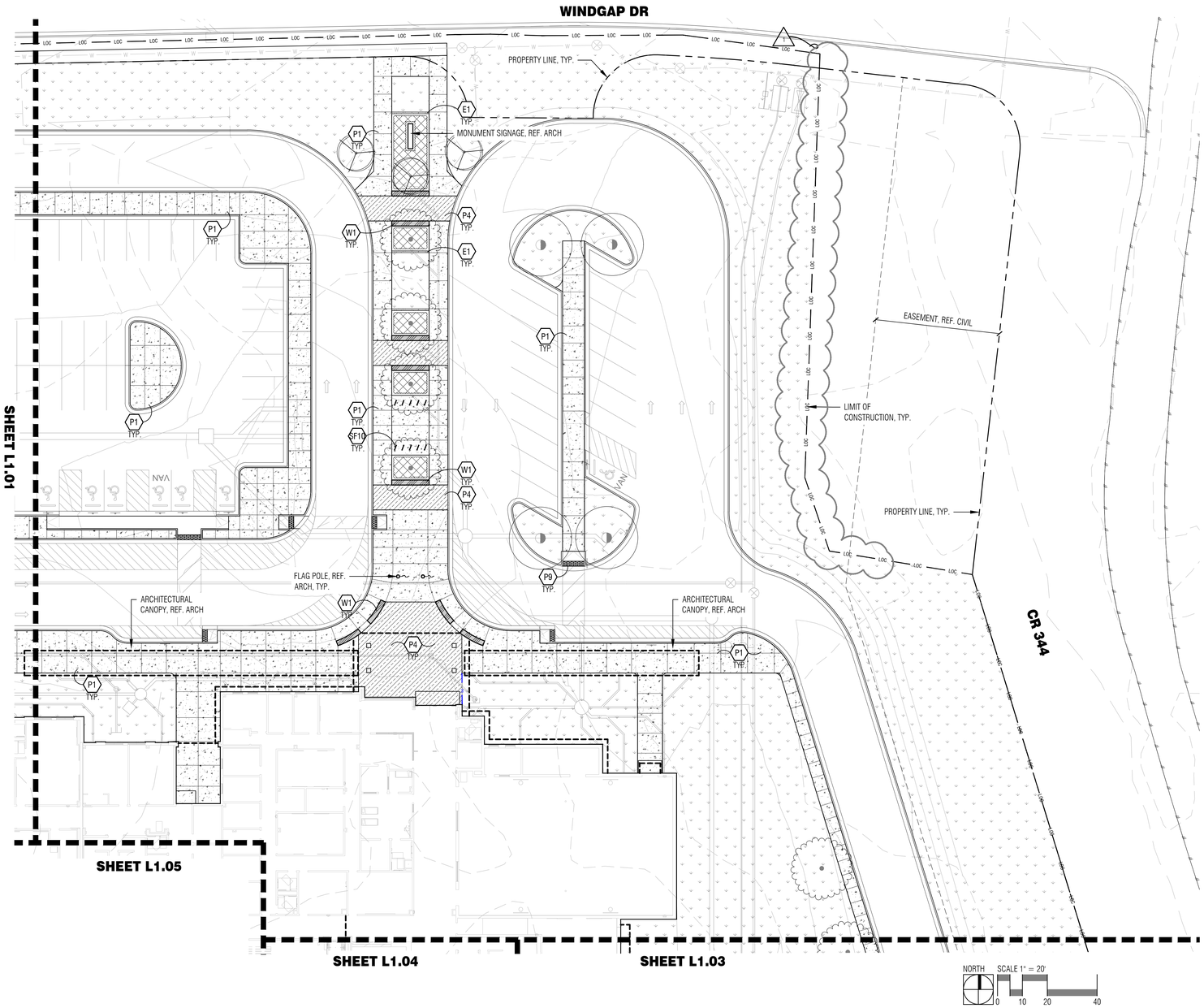
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HARDSCAPE + MATERIALS PLAN

Job No. 1949-04-01	Sheet No. L1.01
Drawn By: KGC	
Date: 10/08/2026	

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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES #1949-04-01 Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt



FENCING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
F1	x1	6' HT. BLACK VINYL COATED CHAIN LINK FENCE	1/L1.12
F2	x2	4' HT. BLACK VINYL COATED CHAIN LINK FENCE	2/L1.12
F3		6' HT. X 6' W DOUBLE PEDESTRIAN BLACK VINYL COATED CHAIN LINK GATE TO MATCH FENCE	3/L1.12
F4		4' HT. X 4' W SINGLE PEDESTRIAN BLACK VINYL COATED CHAIN LINK GATE GATE TO MATCH FENCE	4/L1.12
F5		6' HT. X 10' W BLACK VINYL COATED CHAIN LINK MAINTENANCE GATE TO MATCH FENCE	5/L1.12
F6		6' HT. X 24' W BLACK VINYL COATED CHAIN LINK VEHICULAR GATE TO MATCH FENCE WITH PADLOCK & KNOX LOCK	6/L1.12

LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
1. TREES SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET, REF. LANDSCAPE SHEETS

DRAWING KEY

SYMBOL	DESCRIPTION
	PROPERTY LINE
LOC	LIMIT OF CONSTRUCTION, REF. CIVIL
	MATCHLINE
	PROPOSED GRADING, REF. CIVIL
	EXISTING GRADING, REF. CIVIL
	EXISTING TREE TO REMAIN, PROTECT IN PLACE

CONSTRUCTION KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT FINISH:LIGHT BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
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P3		SANDBLASTED CONCRETE WITH BOMANITE MICRO-TOP XT COATING. MANUFACTURER: TEXAS BOMANITE CONTACT: DARIAN DAWKINS, (512)491-0202	REF. CIVIL
P4		PAVERS ON CONCRETE MANUFACTURER: KEYSTONE HARDSCAPES PAVER SIZE: 4" x 8" x 60MM FINISH: REF. SPECS COLOR: TAN	1/L1.10
P5		CONCRETE RAMP AT PLAYGROUND	1/L1.11
P6		12" DEPTH ENGINEERED WOOD FIBER MULCH	PER MANU.
P7		SYNTHETIC GRASS MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	4/L1.10
P8		SYNTHETIC GRASS BERM MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	5/L1.11
P9		TACTILE PAVING	REF. CIVIL
P10		NOT USED	
P11		LABRYNTH MANUFACTURER: LABRYNTH COMPANY PRODUCT: CHELSEA A LA CHARTRES	REF. SPECS
E1		CONCRETE MOW BAND	2/L1.10
E2		4" RAISED CONCRETE CURB	3/L1.10
E3		PAVER RESTRAINT	1/L1.10
W1		STONE VENEER SEAT WALL	6/L1.10
D1		LANDSCAPE DRAIN	5L1.10
D2		SUBGRADE DRAINAGE AT SYNTHETIC GRASS 10" EZ-FLOW DRAINAGE BUNDLE BY NDS OR APPROVED EQUAL REF. CIVIL FOR STORM TIE IN	4/L1.10
R1		HANDRAIL AT STEPS FINISH: GALVANIZED	7/L1.10
R2		HANDRAIL AT RAMP FINISH: GALVANIZED	8/L1.10
R3		GUARDRAIL FINISH: GALVANIZED	3 & 4/L1.11
S1		CANTILEVER DISC SHADE STRUCTURE MANUFACTURER: USA SHADE PRODUCT: TBD	1/L1.14 & 1/L1.15
S2		KIDS 2-5 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.
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NOTES:
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SITE FURNISHING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
SF1		TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: PARC CENTRE 28" ROUND COLOR: SAGE QTY: 13	REF. 129300 SPECS "OFOI"
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SF3		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI x 2 COLOR: BLUE ASH QTY: 3	REF. 129300 SPECS "OFOI"
SF4		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI W/ ADA SPACE COLOR: BLUE ASH QTY: 1	REF. 129300 SPECS "OFOI"
SF5		LOUNGE CHAIR MANUFACTURER: LOLL PRODUCT: KIDS ADIRONDACK CHAIR COLOR: NAVY BLUE QTY: 25	REF. 129300 SPECS "OFOI"
SF6		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST WITH (2) 94" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 4	REF. 129300 SPECS "OFOI"
SF7		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST TABLE WITH (4) 46" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 2	REF. 129300 SPECS "OFOI"
SF8		BENCH MANUFACTURER: ANOVA PRODUCT: VIBE RECYCLED PLASTIC CONTOUR, COLOR: SAGE FRAME & BRAZILIAN WALNUT PLASTIC SEAT QTY: 8	REF. 129300 SPECS "OFOI"
SF9	RL	TRASH RECEPTACLES MANUFACTURER: LANDSCAPE FORMS PRODUCT: CHASE PARK LITTER COLOR: MERCURY METALIC QTY: 2	REF. 129300 SPECS & 9/L1.12 "OFOI"
SF10		BIKE RACK MANUFACTURER: LANDSCAPE FORMS PRODUCT: LOOP BIKE RACK COLOR: MERCURY METALIC	REF. 129300 SPECS 8/L1.12

NOTES:
1. FINAL LOCATIONS OF FURNITURE TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER ON SITE PRIOR TO FIXING IN PLACE.
"OFOI" - OWNER FURNISHED, OWNER INSTALLED

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Date

Revision /

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

Project:

VANESSA MCKINNEY 129300 REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS
10/08/2026

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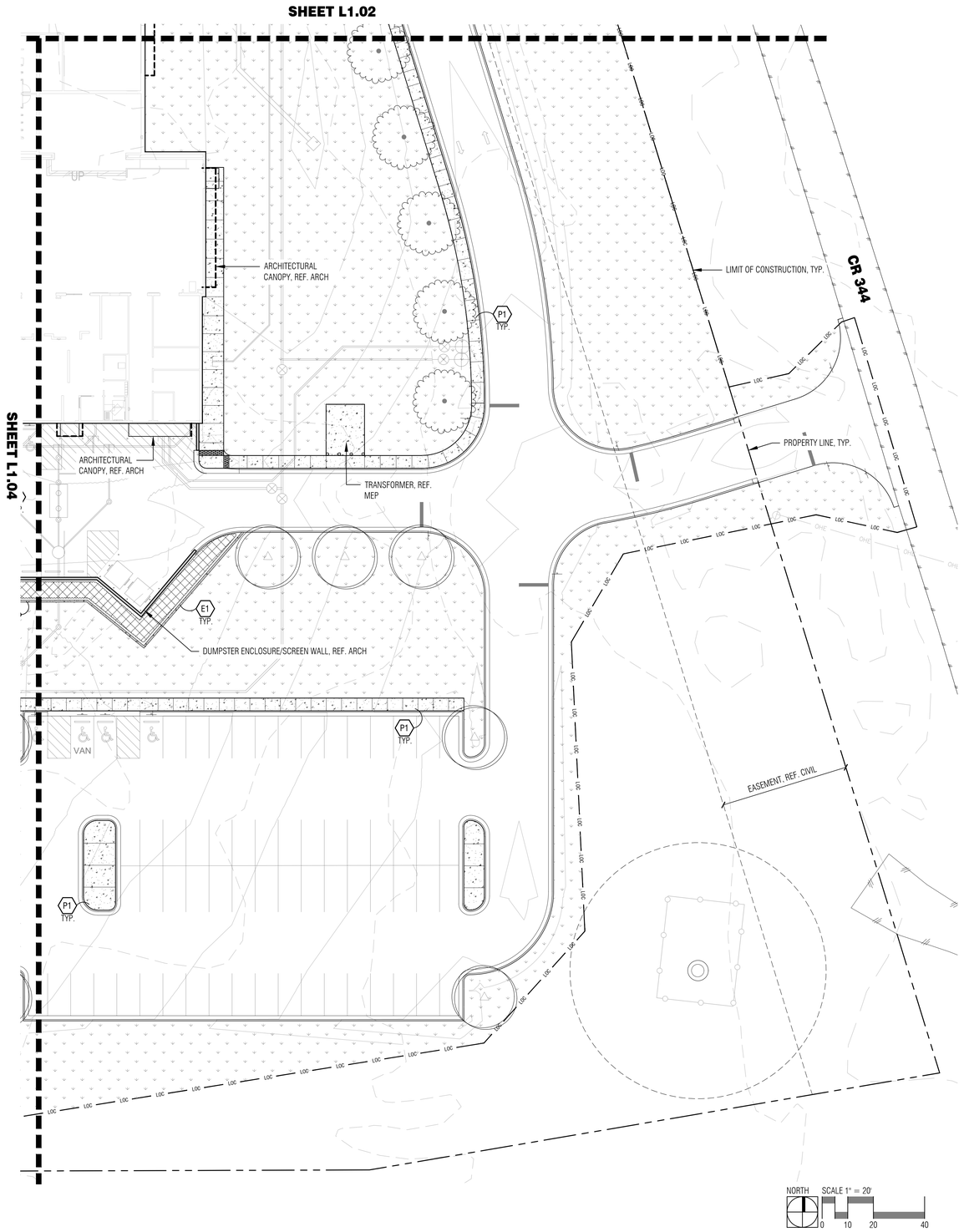
HARDSCAPE + MATERIALS PLAN

Job No.	Sheet No.
1949-04-01	L1.02
Drawn By: KGC	
Date: 10/08/2026	

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FENCING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
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F2	x2	4' HT. BLACK VINYL COATED CHAIN LINK FENCE	2/L1.12
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F4		4' HT. X 4' W SINGLE PEDESTRIAN BLACK VINYL COATED CHAIN LINK GATE GATE TO MATCH FENCE	4/L1.12
F5		6' HT. X 10' W BLACK VINYL COATED CHAIN LINK MAINTENANCE GATE TO MATCH FENCE	5/L1.12
F6		6' HT. X 24' W BLACK VINYL COATED CHAIN LINK VEHICULAR GATE TO MATCH FENCE WITH PADLOCK & KNOX LOCK	6/L1.12

LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
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DRAWING KEY

SYMBOL	DESCRIPTION
	PROPERTY LINE
LOC	LIMIT OF CONSTRUCTION, REF. CIVIL
	MATCHLINE
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CONSTRUCTION KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT FINISH:LIGHT BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
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P5		CONCRETE RAMP AT PLAYGROUND	1/L1.11
P6		12" DEPTH ENGINEERED WOOD FIBER MULCH	PER MANU.
P7		SYNTHETIC GRASS MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	4/L1.10
P8		SYNTHETIC GRASS BERM MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	5/L1.11
P9		TACTILE PAVING	REF. CIVIL
P10		NOT USED	
P11		LABYRINTH MANUFACTURER: LABRYNTH COMPANY PRODUCT: CHELSEA A LA CHARTRES	REF. SPECS
E1		CONCRETE MOW BAND	2/L1.10
E2		4" RAISED CONCRETE CURB	3/L1.10
E3		PAVER RESTRAINT	1/L1.10
W1		STONE VENEER SEAT WALL	6/L1.10
D1		LANDSCAPE DRAIN	5L1.10
D2		SUBGRADE DRAINAGE AT SYNTHETIC GRASS 10" EZ-FLOW DRAINAGE BUNDLE BY NDS OR APPROVED EQUAL REF. CIVIL FOR STORM TIE IN	4/L1.10
R1		HANDRAIL AT STEPS FINISH: GALVANIZED	7/L1.10
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NOTES:
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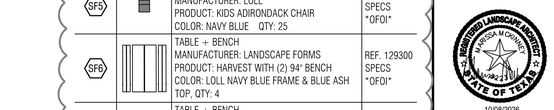
SITE FURNISHING KEY

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SF5		LOUNGE CHAIR MANUFACTURER: LOLL PRODUCT: KIDS ADIRONDACK CHAIR COLOR: NAVY BLUE QTY: 25	REF. 129300 SPECS "OFOI"
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SF7		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST TABLE WITH (4) 46" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 2	REF. 129300 SPECS "OFOI"
SF8		BENCH MANUFACTURER: ANOVA PRODUCT: VIBE RECYCLED PLASTIC CONTOUR, COLOR: SAGE FRAME & BRAZILIAN WALNUT PLASTIC SEAT QTY: 8	REF. 129300 SPECS "OFOI"
SF9	BTL	TRASH RECEPTACLES MANUFACTURER: LANDSCAPE FORMS PRODUCT: CHASE PARK LITTER COLOR: MERCURY METALIC QTY: 2	REF. 129300 SPECS & 9/L1.12 "OFOI"
SF10		BIKE RACK MANUFACTURER: LANDSCAPE FORMS PRODUCT: LOOP BIKE RACK COLOR: MERCURY METALIC	REF. 129300 SPECS 8/L1.12

NOTES:
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Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS



10/08/2026

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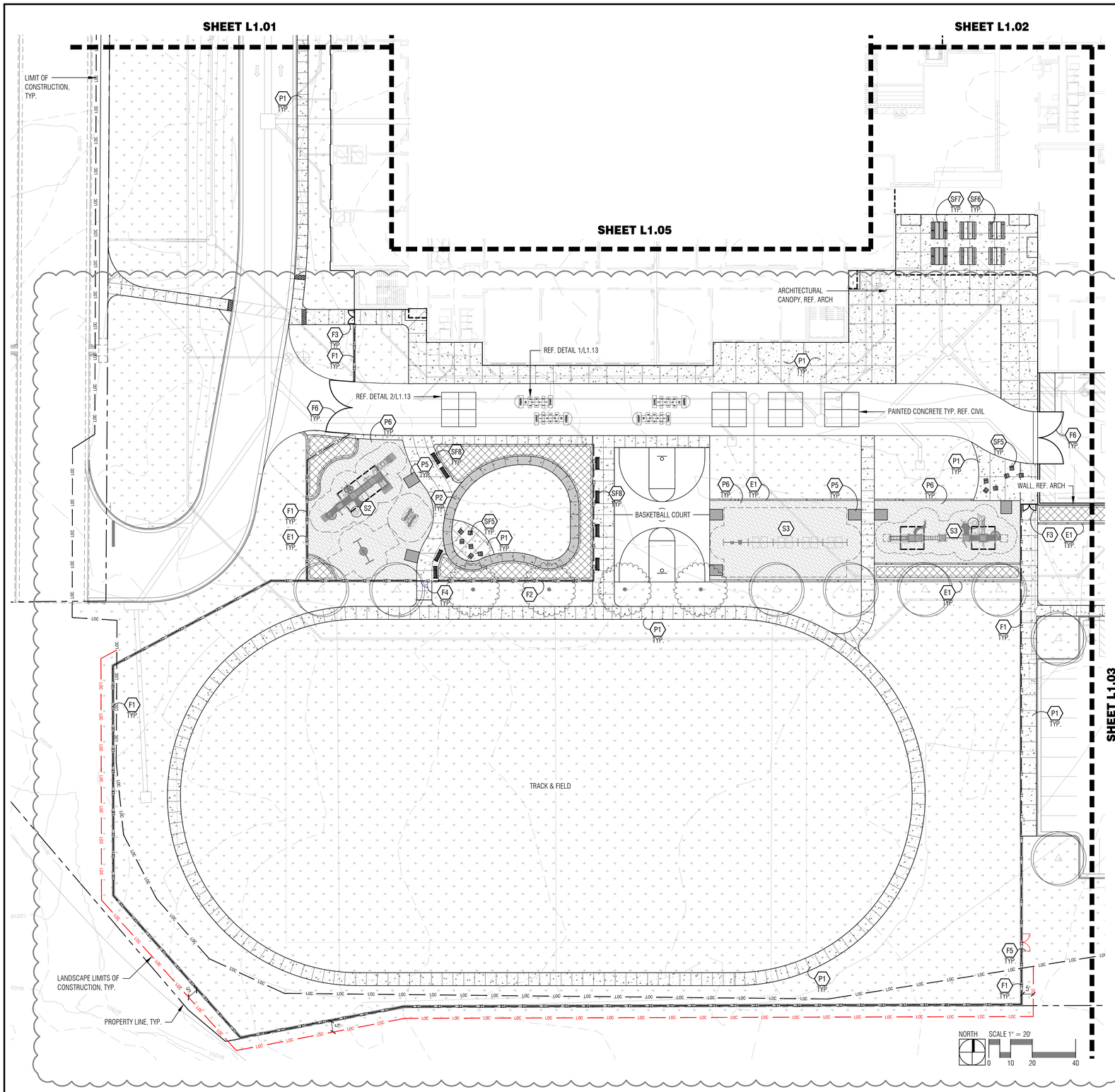
HARDSCAPE + MATERIALS PLAN

Job No.	Sheet No.
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Drawn By: KGC	
Date: 10/08/2026	

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FENCING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
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LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
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D2		SUBGRADE DRAINAGE AT SYNTHETIC GRASS 10' EZ-FLOW DRAINAGE BUNDLE BY NDS OR APPROVED EQUAL REF. CIVIL FOR STORM TIE IN	4/L1.10
R1		HANDRAIL AT STEPS FINISH: GALVANIZED	7/L1.10
R2		HANDRAIL AT RAMP FINISH: GALVANIZED	8/L1.10
R3		GUARDRAIL FINISH: GALVANIZED	3 & 4/L1.11
S1		CANTILEVER DISC SHADE STRUCTURE MANUFACTURER: USA SHADE PRODUCT: TBD	1/L1.14 & 1/L1.15
S2		KIDS 2-5 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.
S3		KIDS 6-12 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.

NOTES:
1. CONTRACTOR TO PROVIDE A 5' X 5' MOCKUP OF EACH PAVEMENT TYPE FOR REVIEW BY LANDSCAPE ARCHITECT AND ARCHITECT PRIOR TO FINAL INSTALLATION.

SITE FURNISHING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
SF1		TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: PARC CENTRE 28" ROUND COLOR: SAGE QTY: 13	REF. 129300 SPECS "OFOI"
SF2		CHAIR MANUFACTURER: LANDSCAPE FORMS PRODUCT: 21 CHAIR, QTY: 36 COLOR: SAGE FRAME & BLUE ASH SEAT	REF. 129300 SPECS "OFOI"
SF3		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI x 2 COLOR: BLUE ASH QTY: 3	REF. 129300 SPECS "OFOI"
SF4		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI W/ ADA SPACE COLOR: BLUE ASH QTY: 1	REF. 129300 SPECS "OFOI"
SF5		LOUNGE CHAIR MANUFACTURER: LOLL PRODUCT: KIDS ADIRONDACK CHAIR COLOR: NAVY BLUE QTY: 25	REF. 129300 SPECS "OFOI"
SF6		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST WITH (2) 94" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 4	REF. 129300 SPECS "OFOI"
SF7		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST TABLE WITH (4) 46" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 2	REF. 129300 SPECS "OFOI"
SF8		BENCH MANUFACTURER: ANOVA PRODUCT: VIBE RECYCLED PLASTIC CONTOUR, COLOR: SAGE FRAME & BRAZILIAN WALNUT PLASTIC SEAT QTY: 8	REF. 129300 SPECS "OFOI"
SF9	RTL	TRASH RECEPTACLES MANUFACTURER: LANDSCAPE FORMS PRODUCT: CHASE PARK LITTER COLOR: MERCURY METALIC QTY: 2	REF. 129300 SPECS & 9/L1.12 "OFOI"
SF10		BIKE RACK MANUFACTURER: LANDSCAPE FORMS PRODUCT: LOOP BIKE RACK COLOR: MERCURY METALIC	REF. 129300 SPECS 8/L1.12

NOTES:
1. FINAL LOCATIONS OF FURNITURE TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER ON SITE PRIOR TO FIXING IN PLACE.
"OFOI" - OWNER FURNISHED, OWNER INSTALLED

Revision /	Date
Delta 1	10/30/26
Addendum No.1	

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

MARISSA M CHANDLER 6502 REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS
10/08/2026

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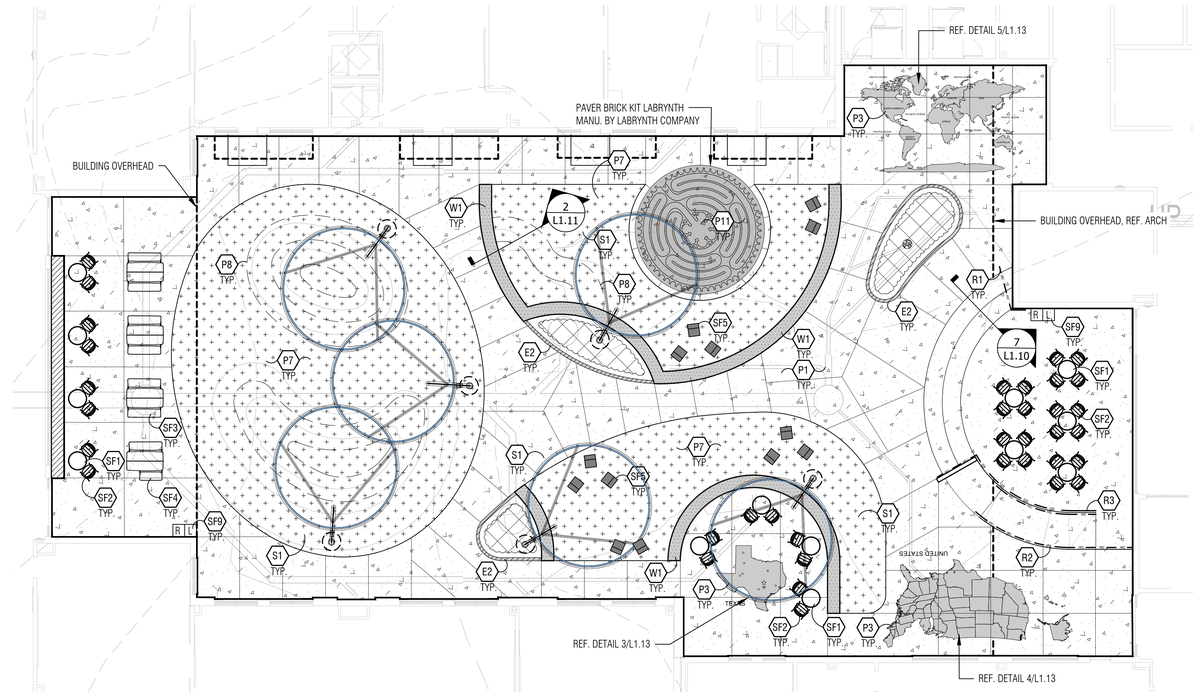
HARDSCAPE + MATERIALS PLAN

Job No.	Sheet No.
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Drawn By: KGC	
Date: 10/08/2026	

S&S

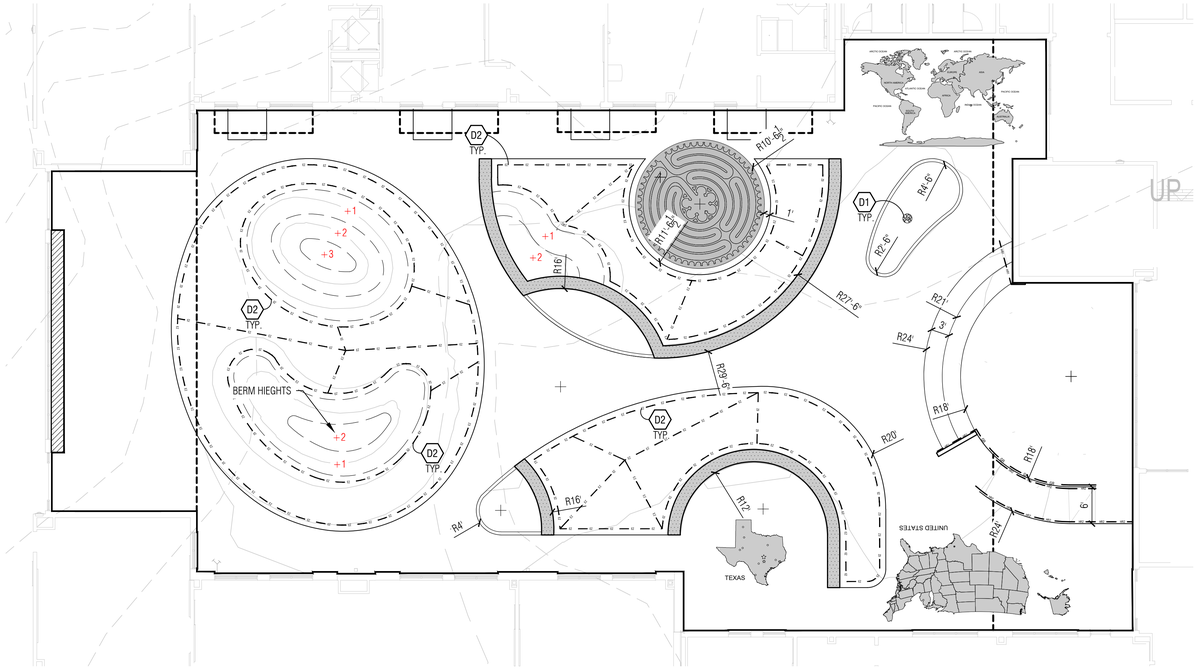
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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES #1949-04-01 Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt

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1 HARDSCAPE + MATERIALS PLAN
PLAN

NORTH SCALE 1" = 10'
0 5 10 20



2 LAYOUT + DRAINAGE PLAN
PLAN

NORTH SCALE 1" = 10'
0 5 10 20

LANDSCAPE KEY

SYMBOL	DESCRIPTION
	TIF 419 BERMUDA SOD
	PLANTING AREA, REF. LANDSCAPE SHEETS

NOTES:
1. TREES SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET, REF. LANDSCAPE SHEETS

DRAWING KEY

SYMBOL	DESCRIPTION
	PROPERTY LINE
LOC	LIMIT OF CONSTRUCTION, REF. CIVIL
	MATCHLINE
	PROPOSED GRADING, REF. CIVIL
	EXISTING GRADING, REF. CIVIL
	EXISTING TREE TO REMAIN, PROTECT IN PLACE

CONSTRUCTION KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT FINISH:LIGHT BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		INTEGRAL COLORED CONCRETE PAVEMENT FINISH:LIGHT BROOM, COLOR: BLUE	REF. CIVIL
P3		SANDBLASTED CONCRETE WITH BOMANITE MICRO-TOP XT COATING. MANUFACTURER: TEXAS BOMANITE CONTACT: DARIAN DAWKINS, (512)491-0202	REF. CIVIL
P4		PAVERS ON CONCRETE MANUFACTURER: KEYSTONE HARDSCAPES PAVER SIZE: 4" x 8" x 60MM FINISH: REF. SPECS COLOR: TAN	1/L1.10
P5		CONCRETE RAMP AT PLAYGROUND	1/L1.11
P6		12" DEPTH ENGINEERED WOOD FIBER MULCH	PER MANU.
P7		SYNTHETIC GRASS MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	4/L1.10
P8		SYNTHETIC GRASS BERM MANUFACTURER: SYNLAWN OR APPROVED EQUAL, MODEL: SYNRYE 247	5/L1.11
P9		TACTILE PAVING	REF. CIVIL
P10		NOT USED	
P11		LABRYNTH MANUFACTURER: LABRYNTH COMPANY PRODUCT: CHELSEA A LA CHARTRES	REF. SPECS
E1		CONCRETE MOW BAND	2/L1.10
E2		4" RAISED CONCRETE CURB	3/L1.10
E3		PAVER RESTRAINT	1/L1.10
W1		STONE VENEER SEAT WALL	6/L1.10
D1		LANDSCAPE DRAIN	5L1.10
D2		SUBGRADE DRAINAGE AT SYNTHETIC GRASS 10" EZ-FLOW DRAINAGE BUNDLE BY NDS OR APPROVED EQUAL REF. CIVIL FOR STORM TIE IN	4/L1.10
R1		HANDRAIL AT STEPS FINISH: GALVANIZED	7/L1.10
R2		HANDRAIL AT RAMP FINISH: GALVANIZED	8/L1.10
R3		GUARDRAIL FINISH: GALVANIZED	3 & 4/L1.11
S1		CANTILEVER DISC SHADE STRUCTURE MANUFACTURER: USA SHADE PRODUCT: TBD	1/L1.14 & 1/L1.15
S2		KIDS 2-5 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.
S3		KIDS 6-12 PLAY STRUCTURES MANUFACTURER: KRAFTSMAN PLAY CONTACT: CHRIS JACKSON (832)510-2547	PER MANU.

NOTES:
1. CONTRACTOR TO PROVIDE A 5' X 5' MOCKUP OF EACH PAVEMENT TYPE FOR REVIEW BY LANDSCAPE ARCHITECT AND ARCHITECT PRIOR TO FINAL INSTALLATION.

SITE FURNISHING KEY

KEY NOTE	SYMBOL	DESCRIPTION	DETAIL
SF1		TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: PARC CENTRE 28" ROUND COLOR: SAGE QTY: 13	REF. 129300 SPECS "OFOI"
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SF3		PICNIC TABLE MANUFACTURER: LANDSCAPE FORMS PRODUCT: TAKE OUT MINI x 2 COLOR: BLUE ASH QTY: 3	REF. 129300 SPECS "OFOI"
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SF5		LOUNGE CHAIR MANUFACTURER: LOLL PRODUCT: KIDS ADIRONDACK CHAIR COLOR: NAVY BLUE QTY: 25	REF. 129300 SPECS "OFOI"
SF6		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST WITH (2) 94" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 4	REF. 129300 SPECS "OFOI"
SF7		TABLE + BENCH MANUFACTURER: LANDSCAPE FORMS PRODUCT: HARVEST TABLE WITH (4) 46" BENCH COLOR: LOLL NAVY BLUE FRAME & BLUE ASH TOP, QTY: 2	REF. 129300 SPECS "OFOI"
SF8		BENCH MANUFACTURER: ANOVA PRODUCT: VIBE RECYCLED PLASTIC CONTOUR, COLOR: SAGE FRAME & BRAZILIAN WALNUT PLASTIC SEAT QTY: 8	REF. 129300 SPECS "OFOI"
SF9	R L	TRASH RECEPTACLES MANUFACTURER: LANDSCAPE FORMS PRODUCT: CHASE PARK LITTER COLOR: MERCURY METALIC QTY: 2	REF. 129300 SPECS & 9/L1.12 "OFOI"
SF10		BIKE RACK MANUFACTURER: LANDSCAPE FORMS PRODUCT: LOOP BIKE RACK COLOR: MERCURY METALIC	REF. 129300 SPECS 8/L1.12

NOTES:
1. FINAL LOCATIONS OF FURNITURE TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER ON SITE PRIOR TO FIXING IN PLACE.
"OFOI" - OWNER FURNISHED, OWNER INSTALLED

Date
Revision /

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

Project:

MARISSA M CHANDLER
REGISTERED LANDSCAPE ARCHITECT
2949
STATE OF TEXAS
10/08/2026

Huckabee
www.huckabee-inc.com
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ENLARGEMENT PLANS

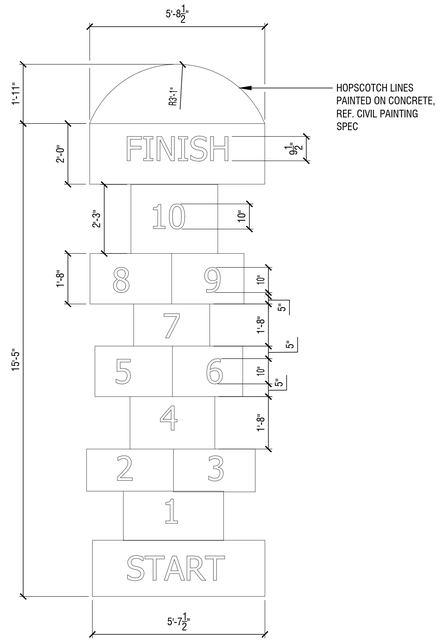
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Drawn By: KGC	
Date: 10/08/2026	

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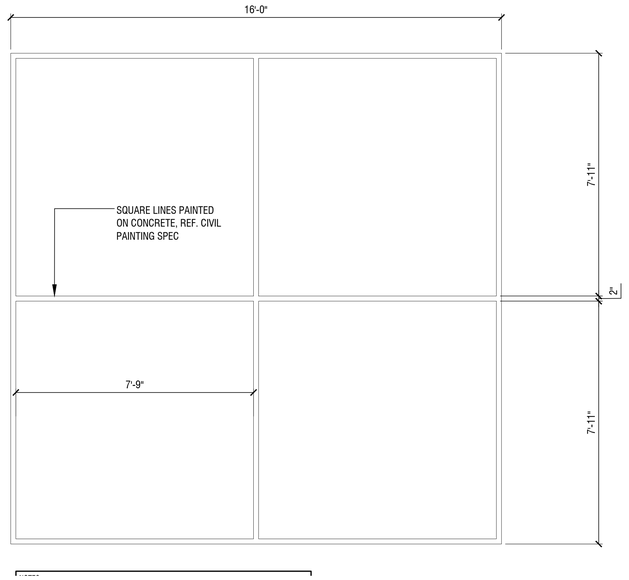
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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 51949-04-01_Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt

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NOTES:
1. LINES TO BE PAINTED PER PAINTING SPECIFICATIONS, REF. CIVIL.
2. CONTRACTOR TO COORDINATE AND PROVIDE LOCATIONS OF PAINT LINES IN FILED FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. CONTRACTOR TO COORDINATE AND PROVIDE A 3' X 3' MOCKUP OF DIFFERENT PAINTS FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

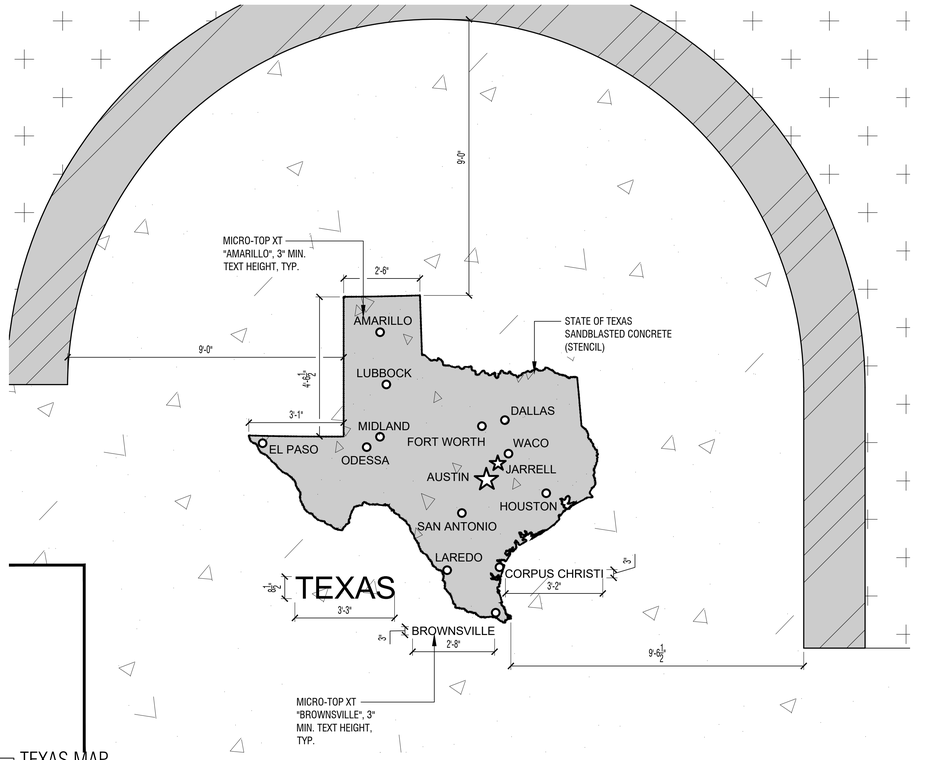


1 HOP SCOTCH
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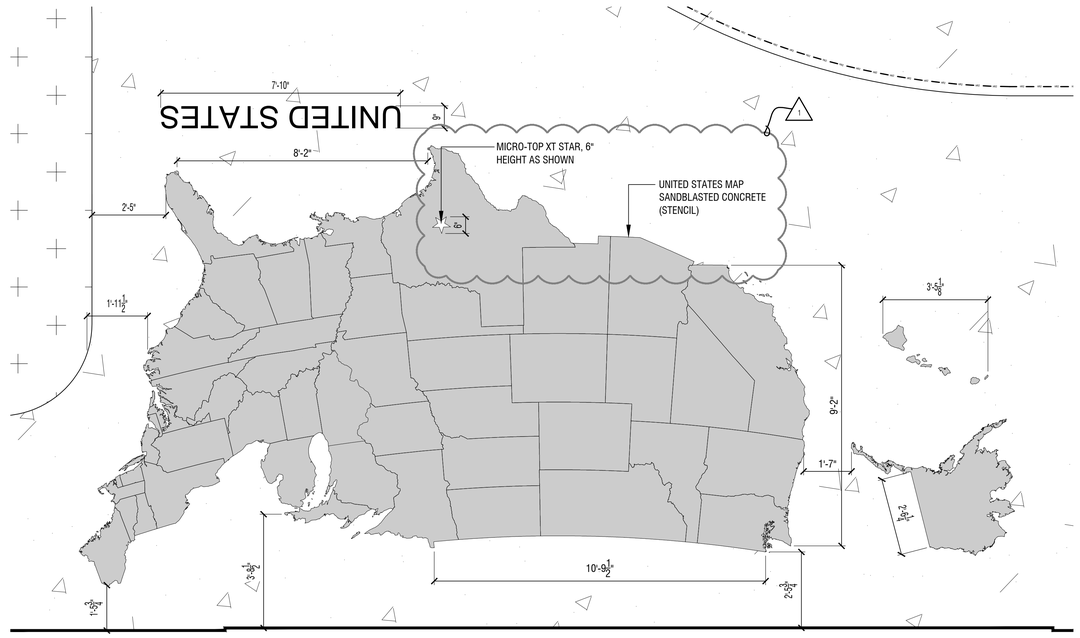


2 FOUR SQUARE
PLAN
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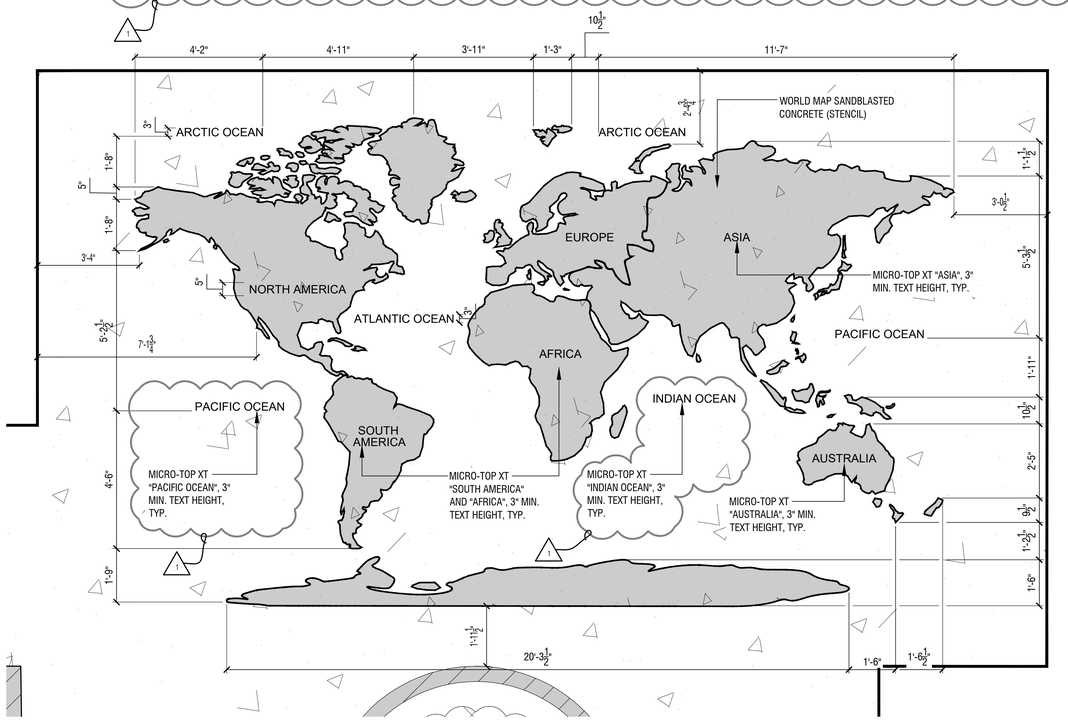
NOTES:
1. MAPS TO BE POURED AND INSTALLED BY TEXAS BOMANITE. CONTACT INFORMATION: DARIAN DAWKINS, 512-491-0202.
2. CONTRACTOR TO COORDINATE AND PROVIDE STENCIL SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
3. CONTRACTOR TO COORDINATE AND PROVIDE LOCATIONS OF SCORE JOINTS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. CONTRACTOR TO COORDINATE AND PROVIDE A 3' X 3' MOCKUP OF DIFFERENT FINISHES FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
5. CONTRACTOR TO COORDINATE AND PROVIDE STENCIL LAYOUT IN FIELD FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO ANY SANDBLASTING.
6. CONTRACTOR TO COORDINATE AND PROVIDE SEALANT PER TEXAS BOMANITE'S SPECIFICATIONS AFTER SANDBLASTING OF MAPS.



3 TEXAS MAP
PLAN
SCALE: 1/2"=1'-0"



4 THE UNITED STATES MAP
PLAN
SCALE: 1/2"=1'-0"



5 THE WORLD MAP
PLAN
SCALE: 1/2"=1'-0"

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

REGISTERED LANDSCAPE ARCHITECT
MELISSA M. DUNN
5492
STATE OF TEXAS
10/08/2026

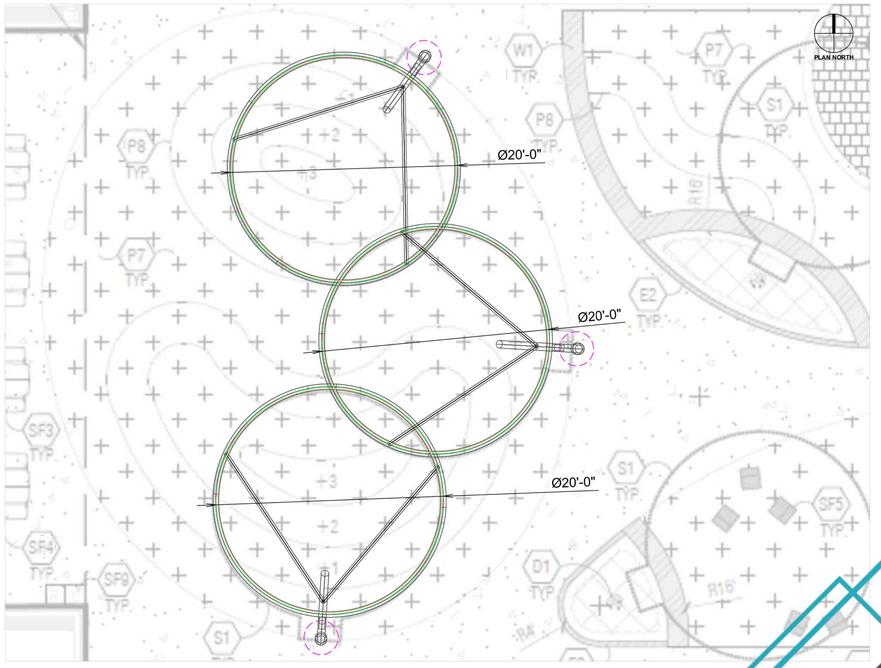
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HARDSCAPE DETAILS

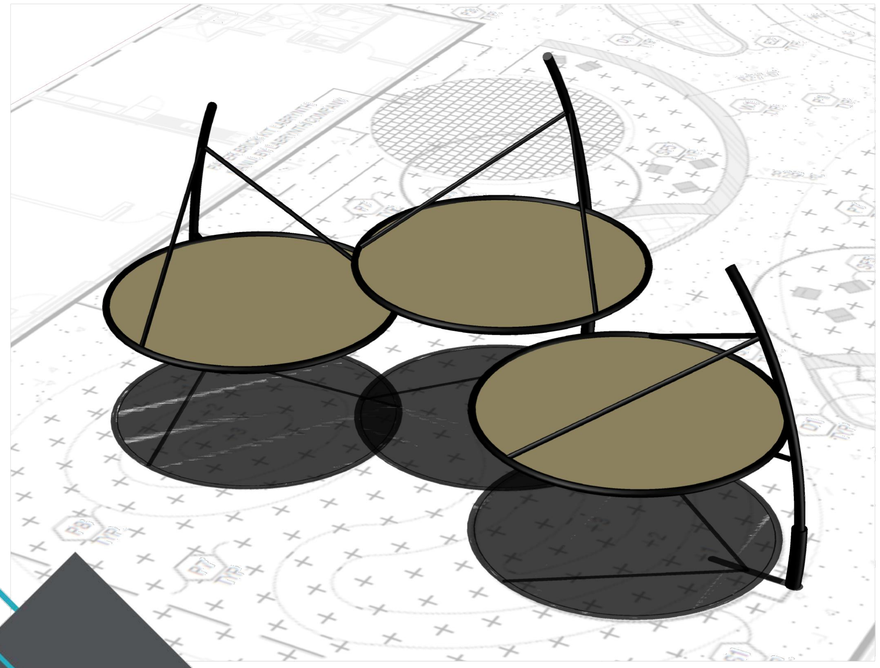
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Drawn By: KDC	
Date: 10/08/2026	

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PLAN VIEW



PERSPECTIVE VIEW

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USASHADE

CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CAPITAL SHADE

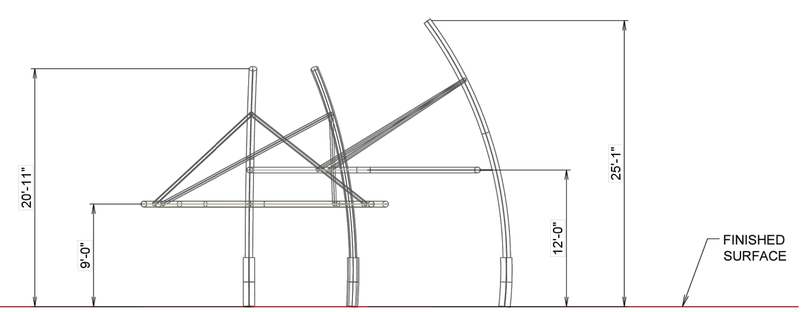
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ATLAS RANCH ELEMENTARY
JARRELL ISD

LOCATION:
TX

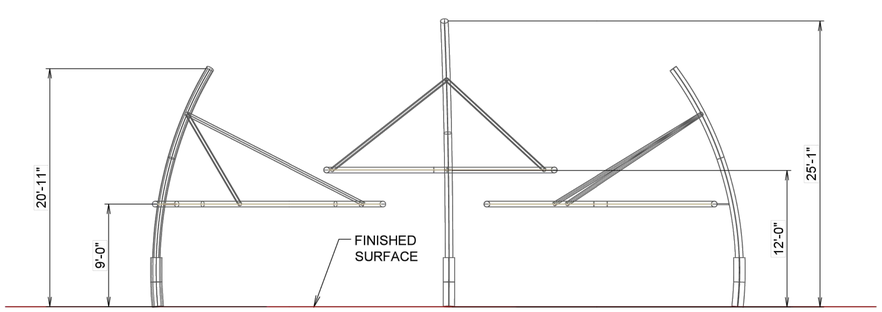
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CANTILEVER DISCS

SIZE:
VARIES

CAPITALSHADE



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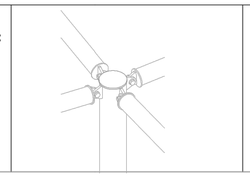
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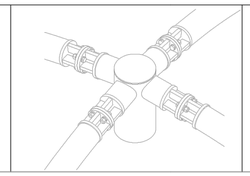
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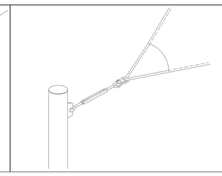
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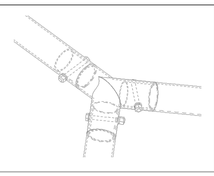
As manufactured and installed by:
USA SHADE & CAPITAL SHADE

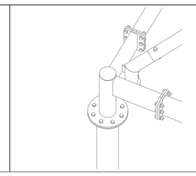
Contact:
Michelle Botha - Capital Shade
(512) 937-6430
michelle@capitalshade.com











Notes:

-All structures will have bolted connections for shipping and installation purposes.

-Standard details being shown as an example. Final details t.b.d. during final Engineering phase.

-All dimensions and heights must be field verified prior to any final design, fabrication or installation work.

DRAWING DESCRIPTION:
OVERLAPPING VIEWS

DWG. **TX0626JK29245**

PAGE **1003**

REV.

1 CANTILEVER DISC SHADE STRUCTURE
PLAN/SECTION

N.T.S.

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

REGISTERED LANDSCAPE ARCHITECT
MARISSA M CONNELLY
STATE OF TEXAS
10/08/2026

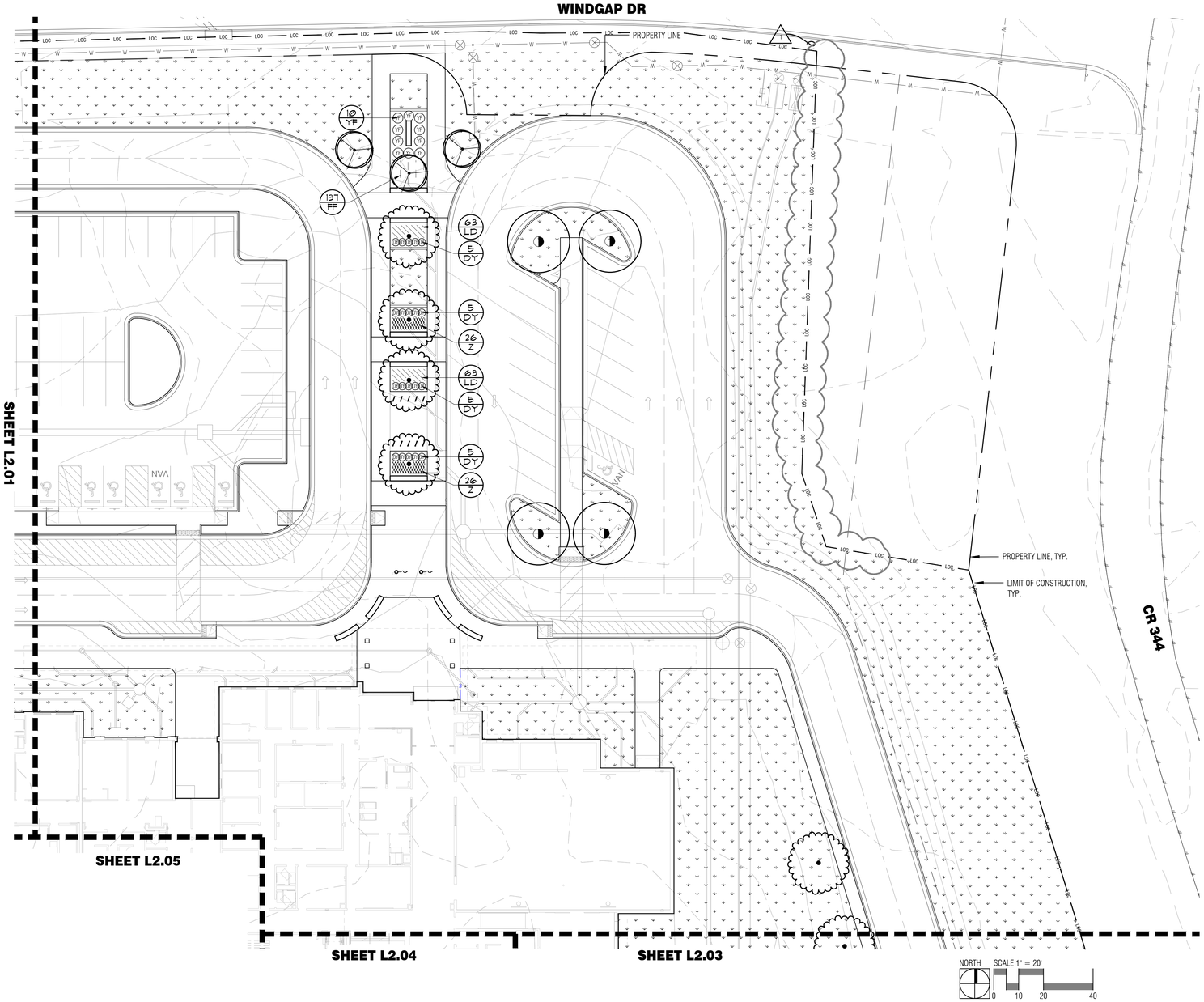
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HARDSCAPE DETAILS

Job No. 1949-04-01	Sheet No. L1.16
Drawn By: KGC	
Date: 10/08/2026	

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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	DESERT WILLOW CHILOPSIS LINEARIS `BUBBA`S DELIGHT`
	CHINQUAPIN OAK QUERCUS MUHLENBERGII
	SOUTHERN LIVE OAK QUERCUS VIRGINIANA
	CEDAR ELM ULMUS CRASSIFOLIA

CODE	COMMON / BOTANICAL NAME
SHRUBS	
AW	FLAMELEAF ACANTHUS ANISACANTHUS QUADRIFIDUS WRIGHTII
BM	BIG MUHLY MUHLENBERGIA LINDHEIMERI
DY	SCHILLINGS DWARF YAUPON ILEX VOMITORIA `SCHILLINGS DWARF`
HF	LITTLE GIANT HESPERALOE HESPERALOE FUNIFERA 'LITTLE GIANT'
LL	LITTLE LYNN LANGMAN'S SAGE LEUCOPHYLLUM LANGMANIAE 'LITTLE LYNN'
MG	MAIDEN GRASS MISCANTHUS SINENSIS `GRACILLIMUS`
MI	MORAEA IRIS MORAEA IRIDOIDES
PB	PRIDE OF BARBADOS CAESALPINIA PULCHERRIMA
RY	RED YUCCA HESPERALOE PARVIFLORA
XS	GREEN CLOUD TEXAS SAGE LEUCOPHYLLUM FRUTESCENS `GREEN CLOUD`
YB	YELLOW BELLS TECOMA STANS `GOLD STAR`
YF	BRIGHT EDGE ADAM'S NEEDLE YUCCA FILAMENTOSA 'BRIGHT EDGE'

SYMBOL	CODE	COMMON / BOTANICAL NAME
GROUND COVERS		
	CG	GREGG'S MISTFLOWER CONOCLINIUM GREGGII
	FF	FROG FRUIT PHYLA NODIFLORA
	LD	LANTANA `DALLAS RED` LANTANA X `DALLAS RED`
	Z	ZEXMENIA WEDELIA TEXANA

Date

Revision /

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

REGISTERED LANDSCAPE ARCHITECT
VANESSA M CHANEY
2130
STATE OF TEXAS
10/08/2026

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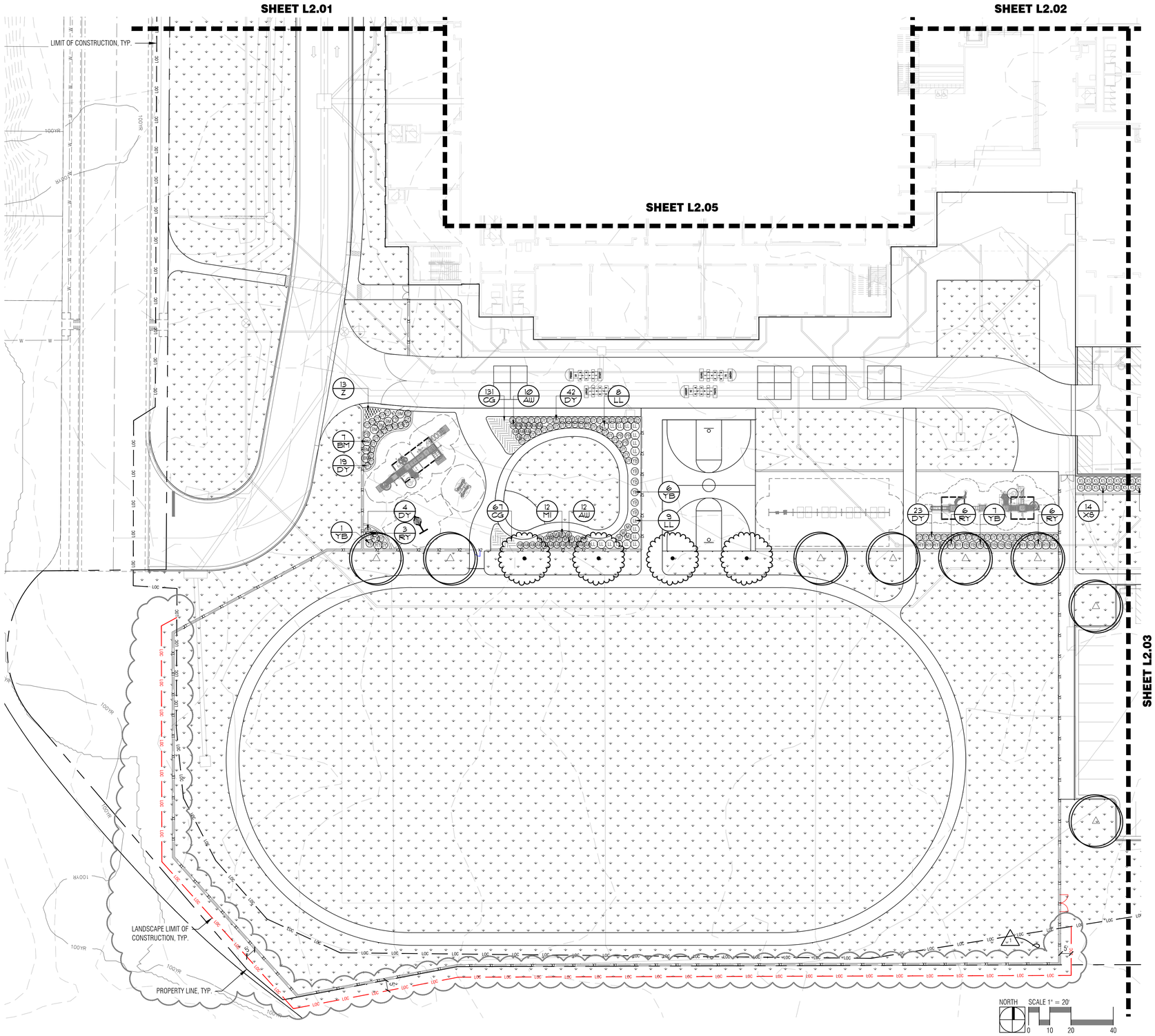
LANDSCAPE PLAN

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Date: 10/08/2026	

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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
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	CHINQUAPIN OAK QUERCUS MUHLENBERGII
	SOUTHERN LIVE OAK QUERCUS VIRGINIANA
	CEDAR ELM ULMUS CRASSIFOLIA

CODE	COMMON / BOTANICAL NAME
SHRUBS	
AW	FLAMELEAF ACANTHUS ANISACANTHUS QUADRIFIDUS WRIGHTII
BM	BIG MUHLY MUHLENBERGIA LINDHEIMERI
DY	SCHILLINGS DWARF YAUPON ILEX VOMITORIA `SCHILLINGS DWARF`
HF	LITTLE GIANT HESPERALOE HESPERALOE FUNIFERA 'LITTLE GIANT'
LL	LITTLE LYNN LANGMAN'S SAGE LEUCOPHYLLUM LANGMANIAE 'LITTLE LYNN'
MG	MAIDEN GRASS MISCANTHUS SINENSIS `GRACILLIMUS`
MI	MORAEA IRIS MORAEA IRIDOIDES
PB	PRIDE OF BARBADOS CAESALPINIA PULCHERRIMA
RY	RED YUCCA HESPERALOE PARVIFLORA
XS	GREEN CLOUD TEXAS SAGE LEUCOPHYLLUM FRUTESCENS `GREEN CLOUD`
YB	YELLOW BELLS TECOMA STANS `GOLD STAR`
YF	BRIGHT EDGE ADAM'S NEEDLE YUCCA FILAMENTOSA 'BRIGHT EDGE'

SYMBOL	CODE	COMMON / BOTANICAL NAME
GROUND COVERS		
	CG	GREGG'S MISTFLOWER CONOCLINIUM GREGGII
	FF	FROG FRUIT PHYLA NODIFLORA
	LD	LANTANA `DALLAS RED` LANTANA X `DALLAS RED`
	Z	ZEXMENIA WEDELIA TEXANA

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

REGISTERED LANDSCAPE ARCHITECT
MARISSA M CONNELLY
2506
STATE OF TEXAS
10/08/2026

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LANDSCAPE PLAN

Job No.	Sheet No.
1949-04-01	L2.04
Drawn By: KGC	
Date: 10/08/2026	

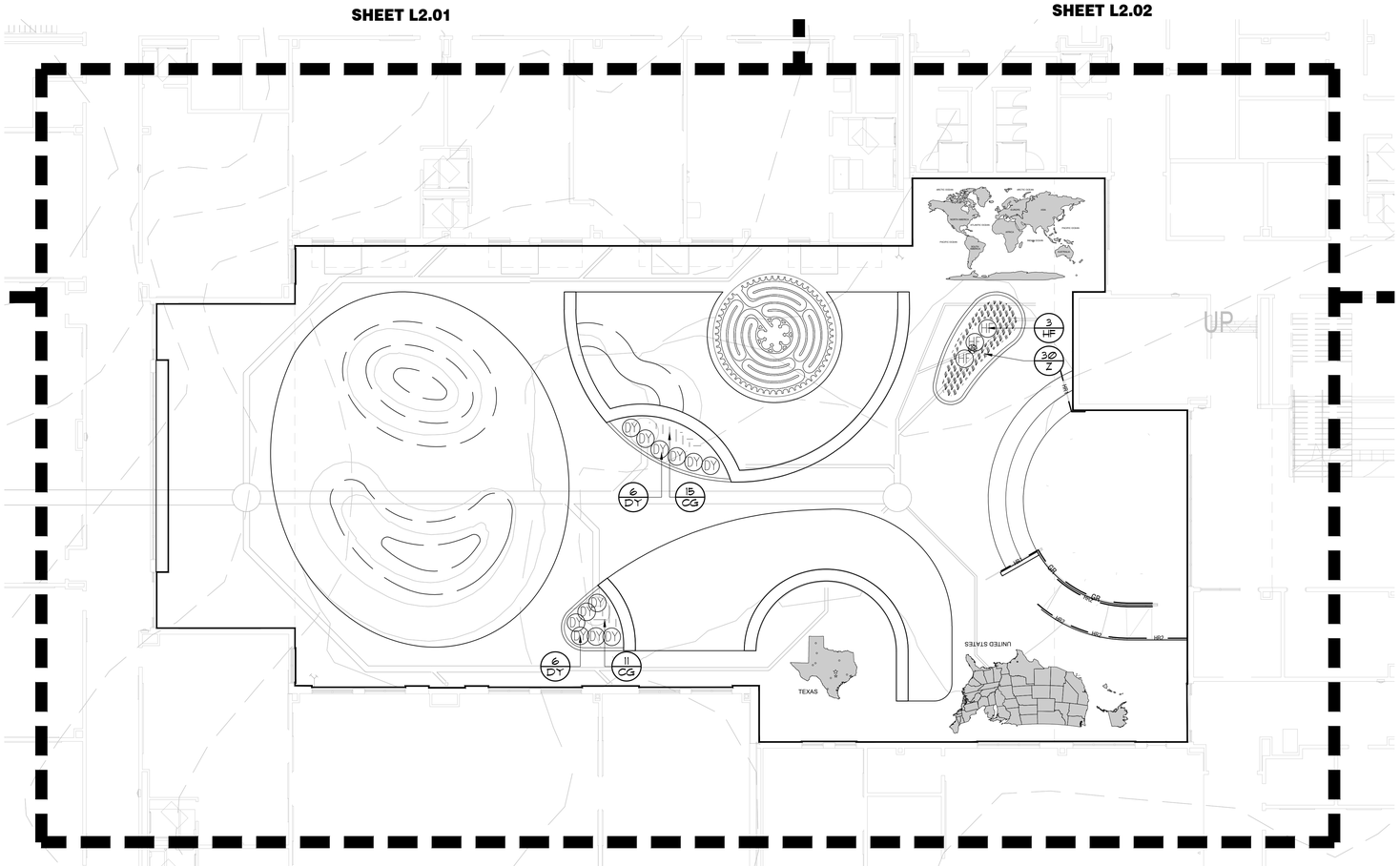
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SHEET L2.01

SHEET L2.02



SHEET L2.04

NORTH SCALE 1" = 10'
0 5 10 20

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	DESERT WILLOW CHILOPSIS LINEARIS `BUBBA`S DELIGHT`
	CHINQUAPIN OAK QUERCUS MUHLENBERGII
	SOUTHERN LIVE OAK QUERCUS VIRGINIANA
	CEDAR ELM ULMUS CRASSIFOLIA

CODE	COMMON / BOTANICAL NAME
SHRUBS	
AW	FLAMELEAF ACANTHUS ANISACANTHUS QUADRIFIDUS WRIGHTII
BM	BIG MUHLY MUHLENBERGIA LINDHEIMERI
DY	SCHILLINGS DWARF YAUPON ILEX VOMITORIA `SCHILLINGS DWARF`
HF	LITTLE GIANT HESPERALOE HESPERALOE FUNIFERA 'LITTLE GIANT'
LL	LITTLE LYNN LANGMAN'S SAGE LEUCOPHYLLUM LANGMANIAE 'LITTLE LYNN'
MG	MAIDEN GRASS MISCANTHUS SINENSIS `GRACILLIMUS`
MI	MORAEA IRIS MORAEA IRIDOIDES
PB	PRIDE OF BARBADOS CAESALPINIA PULCHERRIMA
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XS	GREEN CLOUD TEXAS SAGE LEUCOPHYLLUM FRUTESCENS `GREEN CLOUD`
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SYMBOL	CODE	COMMON / BOTANICAL NAME
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	FF	FROG FRUIT PHYLA NODIFLORA
	LD	LANTANA `DALLAS RED` LANTANA X `DALLAS RED`
	Z	ZEXMENIA WEDELIA TEXANA

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

MELISSA MORRIS
REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
10/08/2026

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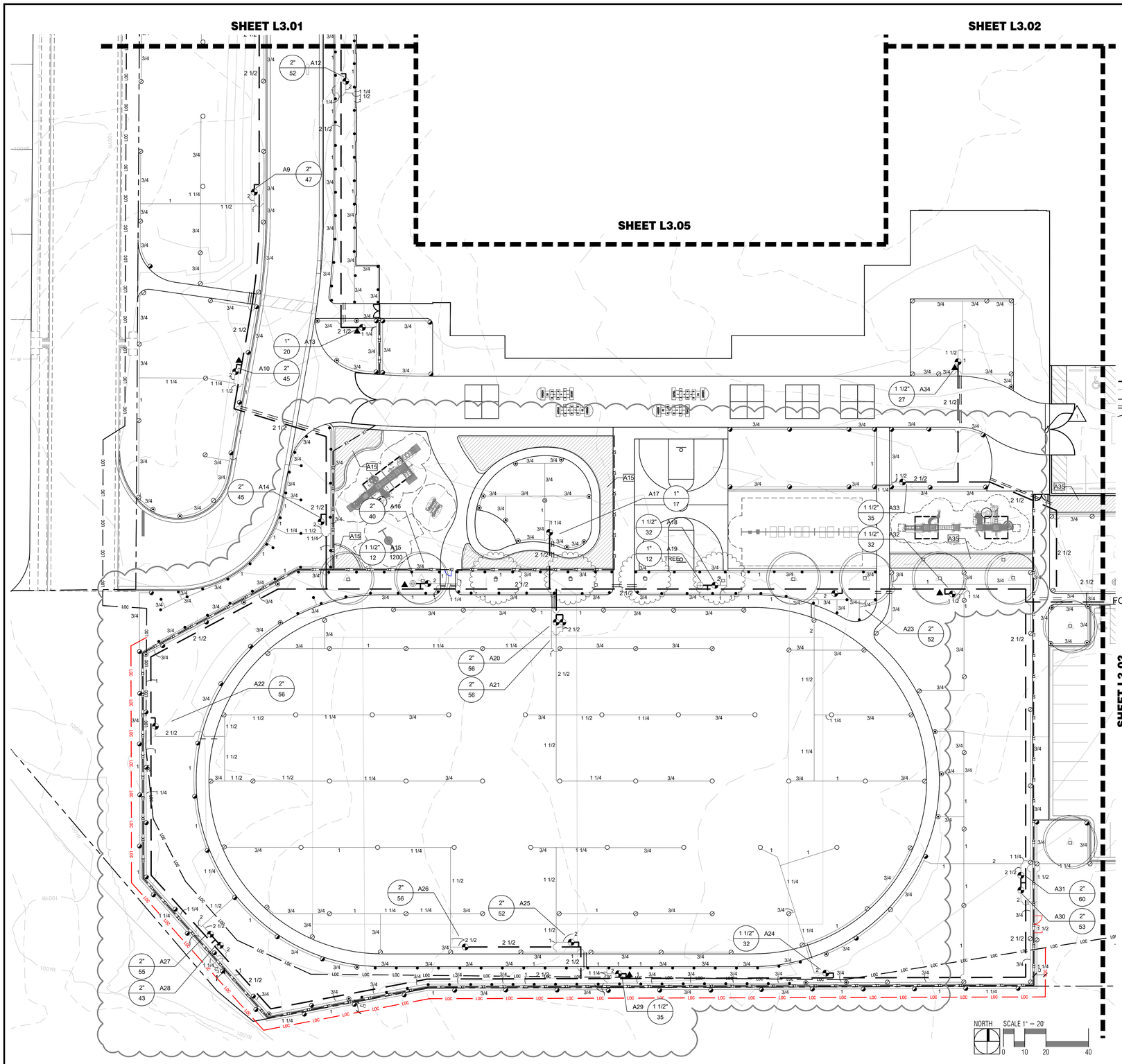
LANDSCAPE
ENLARGEMENT PLAN

Job No.	Sheet No.
1949-04-01	L2.05
Drawn By: KGC	
Date: 10/08/2026	

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IRRIGATION LEGEND

- HUNTER PROS-06-PRS30 SERIES POP UP SPRAY HEADS WITH HUNTER MSBN-50H STREAM BUBBLER NOZZLES. (TWO PER TREE)
  SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- HUNTER PROS-04-PRS30 SERIES POP UP SPRAY HEAD WITH SS / ES SERIES STRIP NOZZLE UNLESS NOTED OTHERWISE
- HUNTER PROS-04-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- HUNTER PGP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #1.5 SR BLACK NOZZLE UNLESS NOTED OTHERWISE
- HUNTER PGP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, FULL CIRCLE, #3.0 SR BLACK NOZZLE UNLESS NOTED OTHERWISE
- HUNTER PGP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #2.5 BLUE NOZZLE UNLESS NOTED OTHERWISE
- HUNTER PGP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #4.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- HUNTER PGP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, FULL CIRCLE, #8.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- NETAFIM TECHLINE TLHCVXR5-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH
  SEE INSTALLATION NOTE #16 REGARDING DRIP TUBE LAYOUT IN SHRUB BEDS
- HUNTER HQ-33DLRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- ZURN / WILKINS 375XLB SERIES REDUCED PRESSURE TYPE BACKFLOW PREVENTOR INSTALLED PER CITY CODE
  WITH HEATED / INSULATED ALUMINUM ENCLSOURE AND SAME SIZE BRONZE BALL VALVE INSTALLED ON THE UP-STREAM SIDE.
  G.C. TO COORDINATE POWER TO BACKFLOW ENCLOSURE LOCATION PRIOR TO CONSTRUCTION
- IRRIGATION TURBINE WATER METER AND TAP, SIZE AS NOTED ON THE PLAN

CONTROLLER "A"

- HUNTER ACC2 DECODER SERIES TWO-WIRE CONTROLLER MODEL A2C-75D-M WITH TWO A2C-D75 MODULES AND WIRELESS SOLAR SYNC SENSOR
  LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT
  SURGE PROTECTION DEVICE WITH GROUNDING DEVICE TO BE SPACED NO MORE THAN 500 FEET APART ALONG PATH
- "MASTER" ELECTRIC VALVE WITH ICD-100 SERIES DECODER AND
  CST SERIES FLOW SENSOR, MODEL #FSI-T15-001 WITH #ICD-SEN SERIES SENSOR DECODER.
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH ICD-100 SERIES DECODER
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE WITH ICD-100 SERIES DECODER
  SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- NETAFIM CONTROL ZONE KIT MODEL #NCZ-1S SERIES WITH 50 PSI PRESSURE REGULATOR AND SCREEN FILTER
  WITH ICD-100 SERIES DECODER

CONTROLLER "B"

- LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT
- "MASTER" ELECTRIC VALVE
- NETAFIM CONTROL ZONE KIT MODEL #NCZ-1S SERIES WITH 50 PSI PRESSURE REGULATOR, SCREEN FILTER, AND SAME SIZED PVC BALL VALVE

- CLASS 200 PVC SOLVENT-WELD MAINLINE PIPE
- CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE
- ONE 4" CLASS 200 SLEEVE PIPE
- ONE 6" AND ONE 4" CLASS 200 SLEEVE PIPES AT CROSSINGS WITH 3" MAINLINE
- 2" PVC CONDUIT WITH LONG RADIUS SWEEP FITTINGS

L.I.C. SHALL SELECT SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

COORDINATION WITH EXISTING TREES

NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.

TEMPORARY IRRIGATION

THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.

CONTROLLER STATION — VALVE SIZE
APPROX. LINER FOOTAGE OF DRIP TUBE — ### — FLOW IN G.P.M.

HUNTER "ACC2" TWO WIRE NOTES

SPLICES SHALL BE LOCATED IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION.
"TWO-WIRE" PATH CONTROL WIRES SHALL BE HUNTER #ID1GRY.

ALL WIRE SPLICES MUST BE MADE IN A VALVE BOX WITH DBR-6 OR EQUAL DIRECT-BURIAL WATERPROOF CONNECTORS. ALL CONNECTIONS IN THE TWO-WIRE PATHS (OUTSIDE THE CONTROLLER ENCLOSURE) SHALL BE MADE WITH 3M DBR-6 WATERPROOF, STRAIN-RELIEVING DIRECT BURIAL CONNECTORS, OR EXACT EQUALS.

18 AWG/1MM DIA. WIRE OR LARGER SHALL BE USED FOR ALL DECODER-TO-SOLENOID CONNECTIONS. IN HIGH LIGHTNING AREAS THIS WIRE SHALL BE TWISTED TO MAXIMIZE SURGE SUPPRESSION.

THE INSTALLER SHALL PROVIDE ADEQUATE EARTH GROUND (NOT TO EXCEED 10 OHMS, OR IN COMPLIANCE WITH PRACTICES AS DEFINED IN AMERICAN SOCIETY OF IRRIGATION CONSULTANTS EARTH GROUNDING GUIDELINE 100-2002, AVAILABLE AT WWW.ASIC.ORG) AND CONNECT IT TO ONE OF THE DECODER GROUND LEADS EVERY 1000 FT./330M), OR EVERY 12TH DECODER MODULE, WHICHEVER IS SHORTER. MINIMUM GROUND HARDWARE SHALL BE A 4" X 36" (100 X 915MM) COPPER PLATE WITH AT LEAST 10AWG/2.5MM DIA. COPPER WIRE. IN HIGH LIGHTNING AREAS, GROUNDING MAY BE INCREASED TO EVERY 500 FT./150M OR 6 DECODERS.

GROUND CONNECTIONS FROM DECODER GROUND LEAD TO GROUNDING HARDWARE SHALL BE MADE BY JOINING THE 12AWG (2MM DIA.) DECODER GROUND WIRE WITH A 10AWG (2.5MM DIA.) SOLID COPPER LEAD IN AN APPROVED WIRE NUT OF APPROPRIATE SIZE, INSERTED IN A DBR-6 WATERPROOF DIRECT BURIAL CONNECTOR, OR WITH AN APPROVED WIRE CLAMP. GROUND HARDWARE SHALL EXTEND AT RIGHT ANGLES FROM THE TWO-WIRE RED/BLUE PATH, AND GROUND HARDWARE SHALL BE LOCATED AT LEAST 6FT./2M AWAY FROM THE TWO-WIRE PATH.

THE SENSOR DECODER SHALL HAVE A BARE GROUND WIRE FOR CONNECTION TO EARTH GROUND, IN ACCORDANCE WITH THE SPECIFICATIONS APPLYING TO ALL OTHER DECODERS. THE SENSOR DECODER SHALL COUNT AS A "DECODER" FOR GROUND SPACING PURPOSES. CADWELD ONE SHOT TO BE INSTALLED ON ALL GROUNDING ROD CONNECTIONS

Revision / Date

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
JARRELL, TEXAS

VIRGINIA MCINNIS — 32613 — REGISTERED LANDSCAPE ARCHITECT — STATE OF TEXAS
10/08/2026

Huckabee
www.huckabee-inc.com
800.687.1229

10 / 08 / 2026

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT

TEXAS L.I.C. #658
P.O. BOX 1845
DENTON, TEXAS 76202

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IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), (MC-235), P.O. BOX 13087, AUSTIN, TEXAS 78711-3087. T.C.E.Q.'S WEBSITE IS: WWW.TCEQ.TEXAS.GOV.

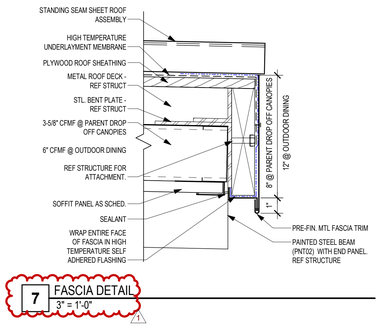
IRRIGATION PLAN

Job No.	Sheet No.
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Drawn By: KGC	
Date: 10/08/2026	

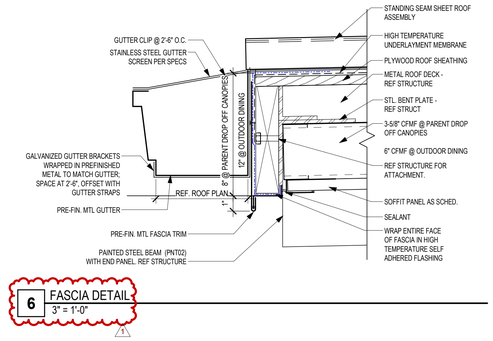
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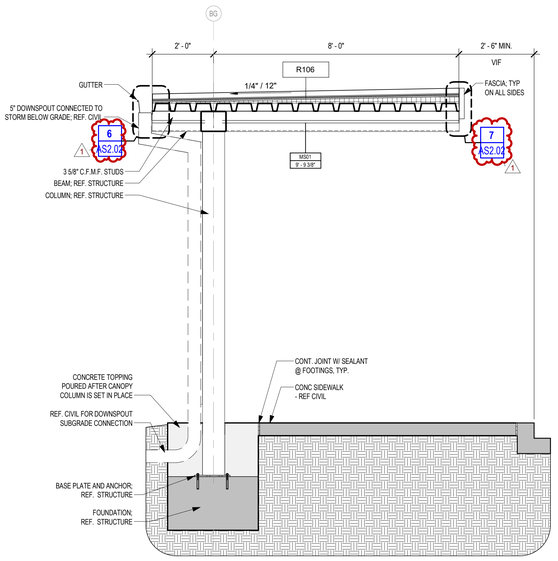
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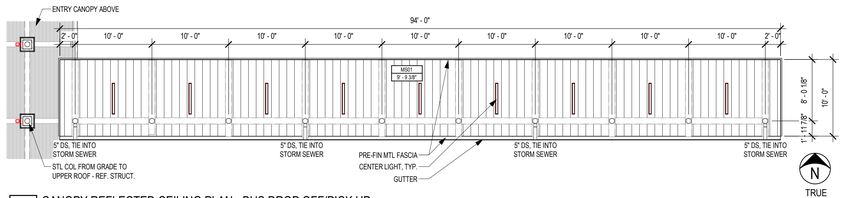
7 FASCIA DETAIL
3" = 1'-0"



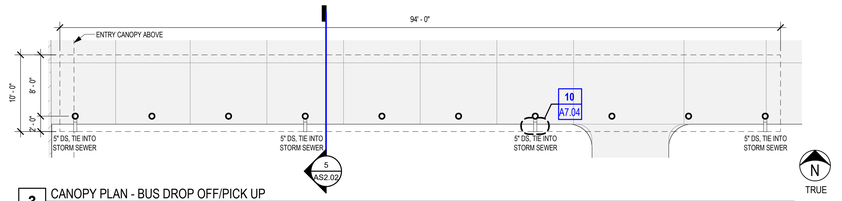
6 FASCIA DETAIL
3" = 1'-0"



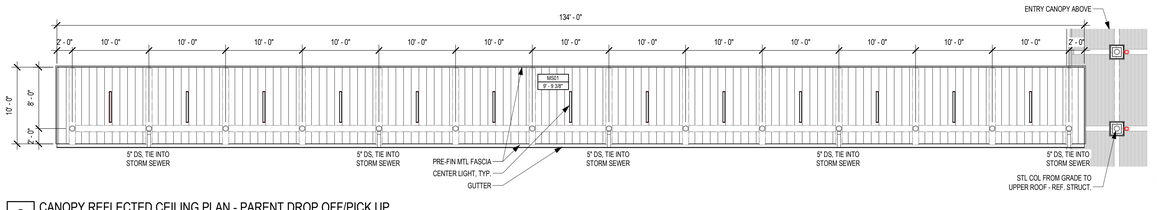
5 DROP OFF CANOPY SECTION
1/2" = 1'-0"



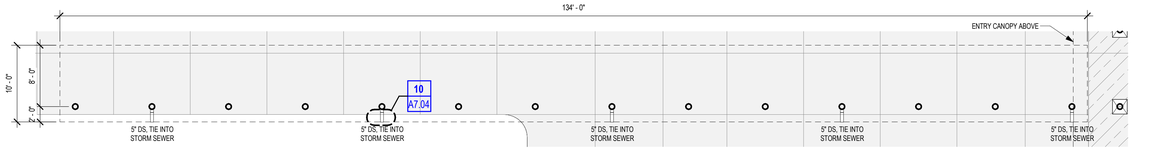
4 CANOPY REFLECTED CEILING PLAN - BUS DROP OFF/PICK UP
1/8" = 1'-0"



3 CANOPY PLAN - BUS DROP OFF/PICK UP
1/8" = 1'-0" BACK REF: AS1.01



2 CANOPY REFLECTED CEILING PLAN - PARENT DROP OFF/PICK UP
1/8" = 1'-0"



1 CANOPY PLAN - PARENT DROP OFF/PICK UP CANOPY
1/8" = 1'-0" BACK REF: AS1.01

Revision / Date
1 Addendum 1 11.03.26

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
ANDREW JACKSON
25557
STATE OF TEXAS
11/03/2026

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CANOPY DETAILS

Job No.	Sheet No.
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Drawn By: DM	
Date: 10/08/2026	

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GENERAL NOTES:

1. REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWING NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
2. ALL DIMENSIONS ASSOCIATED WITH EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ARCHITECT AND SEOR.
3. DO NOT CHANGE THE SIZE OR SPACING OF STRUCTURAL ELEMENTS WITHOUT SEOR APPROVAL.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
5. DETAILS SHOWN AS TYPICAL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS DO NOT INCLUDE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SPECIFICALLY STATED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED BRACING OF THE BUILDING - INCLUDING ELEMENTS REQUIRED TO RESIST LATERAL LOADS - AND ANY OTHER STRUCTURE REQUIRED FOR STABILITY OF THE BUILDING DURING CONSTRUCTION UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED AND CAPABLE OF RESISTING THE REQUIRED LOADS.
8. THE DESIGN IS BASED ON THE **2018 INTERNATIONAL BUILDING CODE (IBC 2018) AS PUBLISH BY THE INTERNATIONAL CODE COUNCIL (ICC)**.
9. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND IS TO BE FULLY RESPONSIBLE FOR ANY DAMAGES RESULTING FROM FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES. 1
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MIS-FITTING/ NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO PERFORMING ANY REMEDIAL ACTION. ADDITIONALLY, ANY SUCH REMEDIAL ACTION SHALL REQUIRE SEOR APPROVAL. THE CITY SHALL BE NOTIFIED OF ANY DAMAGE AND REMEDIAL ACTION TO ANY STRUCTURAL MEMBERS DURING CONSTRUCTION.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND COORDINATE THEIR WORK WITH THE WORK OF OTHERS.
12. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SLEEVES, BLOCKOUTS, INSERTS, CURBS, OPENINGS, AND SLAB DEPRESSIONS THAT ARE REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. REFER TO MEP, CIVIL, AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOTE SHOWN.
13. VERIFY SIZE AND LOCATION OF EQUIPMENT PADS WITH MECHANICAL/ ELECTRICAL CONTRACTOR AND EQUIPMENT MANUFACTURER.
14. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR ANY PURPOSE. THE SEOR IS NOT RESPONSIBLE FOR DETERMINATION OF QUANTITY, LENGTH, OR FIT OF MATERIALS RESULTING FROM SCALING THE STRUCTURAL DRAWINGS.
15. THE CONTRACTOR SHALL COMPARE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT AND SEOR PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
16. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS THAT WOULD EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT PLACED/ STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.
17. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND SEOR OF ANY CONDITION WHICH THEY BELIEVE MAY RESULT IN INSTABILITY AND/ OR DISTRESS IN THE STRUCTURE.
18. CMU FIREWALLS HAVE BEEN DESIGNED FOR THE STANDARD LOADS REQUIRED BY THE BUILDING CODE WITH THE WALLS BRACED AT ROOF AND FLOOR LOCATIONS - AS WELL AS IN A CANTILEVER CONDITION FROM THE BASE - TO RESIST A HORIZONTAL LIVE LOAD OF 7 PSF. THE SEOR INTERPRETS THE APPLICABLE BUILDING CODE SUCH THAT - IN ORDER FOR THE WALL TO STAND FOR TWO HOURS BY THE CODE DEFINITION - THE WALL MUST RESIST THE MINIMUM LIVE LOAD, AS WELL AS THE PROBABLE WIND LOAD, OVER THAT SAME TIME PERIOD. THE 7 PSF LIVE LOAD NOTED EXCEEDS BOTH THE MINIMUM 5 PSF LIVE LOAD REQUIRED BY THE BUILDING CODE AND THE PROBABLE WIND LOAD OVER A 2 HOUR PERIOD
19. REFER TO SECTION **01 4533** OF THE PROJECT SPECIFICATIONS FOR QUALITY ASSURANCE PLAN AND SPECIAL INSPECTION REQUIREMENTS. THE SITA SHALL PROVIDE ALL SPECIAL INSPECTIONS REPORTS, TESTS AND CORRECTIONS OF ANY DISCREPANCIES AS NOTED IN THE INSPECTIONS OR TESTS TO THE BUILDING OFFICIAL PRIOR TO SCHEDULING THE FINAL INSPECTION. 1
20. AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS - AND PRIOR TO SUBMITTING PROPOSALS, BIDS, OR GUARANTEED MAXIMUM PRICE (GMP) FOR THIS PROJECT - THE CONTRACTOR IS REQUIRED TO REVIEW THE PROJECT GEOTECHNICAL REPORT (ALONG WITH ALL SUPPORTING DOCUMENTS TO THE REPORT SUCH AS SUPPLEMENTS AND ADDENDUMS) AND COMPARE THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT TO THE BUILDING PAD PREPARATION REQUIREMENTS (SUCH AS FILL MATERIAL REQUIREMENTS, COMPACTION REQUIREMENTS, EXTENTS OF EXCAVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS (BOTH DRAWINGS AND SPECIFICATIONS). IF THE CONTRACTOR BELIEVES THERE IS A DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS, THE MOST STRINGENT OF THOSE REQUIREMENTS SHALL GOVERN UNLESS OTHERWISE APPROVED BY THE SEOR. ADDITIONALLY, IF THE CONTRACTOR BELIEVES THERE IS A DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL SUBMIT AN RFI REQUESTING CLARIFICATION REGARDING ANY POTENTIAL DISCREPANCIES THE CONTRACTOR HAS IDENTIFIED.

IMPORTANT NOTES REGARDING STABILITY DURING CONSTRUCTION:

1. THE EXTERIOR REINFORCED CMU ARE SHEAR WALLS PROVIDING PERMANENT STABILITY TO THE STRUCTURE. UNTIL THESE WALLS ARE CONSTRUCTED AND CAN PROVIDE STABILITY TO THE STRUCTURE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED MEANS OF TEMPORARY STABILITY IS PROVIDED TO THE CONSTRUCTION.

FOUNDATION AND SOIL PREPARATION NOTES:

THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING AS RECOMMENDED IN THE GEOTECHNICAL REPORT NO. AE26-0501- REVISION #1 BY ALLIANCE ENGINEERING GROUP AND DATED SEPTEMBER 15TH, 2026 AND ADDENDUM #1 DATED OCTOBER 22ND 2026: 1

BEARING STRATA:	VERY PALE BROWN AND LIGHT BROWN LIMESTONE (SLIGHTLY FRACTURED TO FRACTURED) AND LIGHT BROWN AND GRAY LIMESTONE/VUGGY LIMESTONE
ALLOWABLE END BEARING PRESSURE:	20,000 PSF
SKIN FRICTION VALUES:	
IN COMPRESSION (BELOW 770.00' MSL):	1,200 PSF
IN TENSION (BELOW 770.00' MSL):	1,200 PSF
UPLIFT SOIL PRESSURE:	200 PSF ACTING OVER TOP 5 FEET OF PIER SHAFT
MINIMUM DEPTH OF PIER:	MINIMUM TIP ELEVATION: VARIES, REFER TO DEEP FOUNDATION ELEMENT (DFE) SCHEDULE, 1/SS.01

A. BOTH THE CONTRACTOR AND DRILLER SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND BORING LOGS DURING THE BIDDING PHASE OF THE PROJECT. IF THE CONTRACTOR BELIEVES DISCREPANCIES EXIST BETWEEN THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND THESE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND SEOR OF SUCH DISCREPANCIES PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE THE DIFFERENCE BETWEEN FINAL AND EXISTING GRADES IN THEIR BID. ADDITIONAL COSTS WILL NOT BE CONSIDERED DUE TO THE FAILURE TO ACCOUNT FOR THE DIFFERENCE BETWEEN FINAL AND EXISTING GRADES. REFER TO THE CIVIL DRAWINGS FOR EXISTING AND FINAL GRADES.

B. PROVIDE POSITIVE DRAINAGE FOR ALL TRENCHES DURING CONSTRUCTION. DO NOT ALLOW ANY PONDING OF WATER DURING CONSTRUCTION.

C. THE SOIL BENEATH THE BUILDING, AS NOTED IN THE CIVIL DRAWINGS AND AT A MINIMUM OF 5FT BEYOND THE BUILDING PERIMETER SHALL BE TREATED AS FOLLOWS:

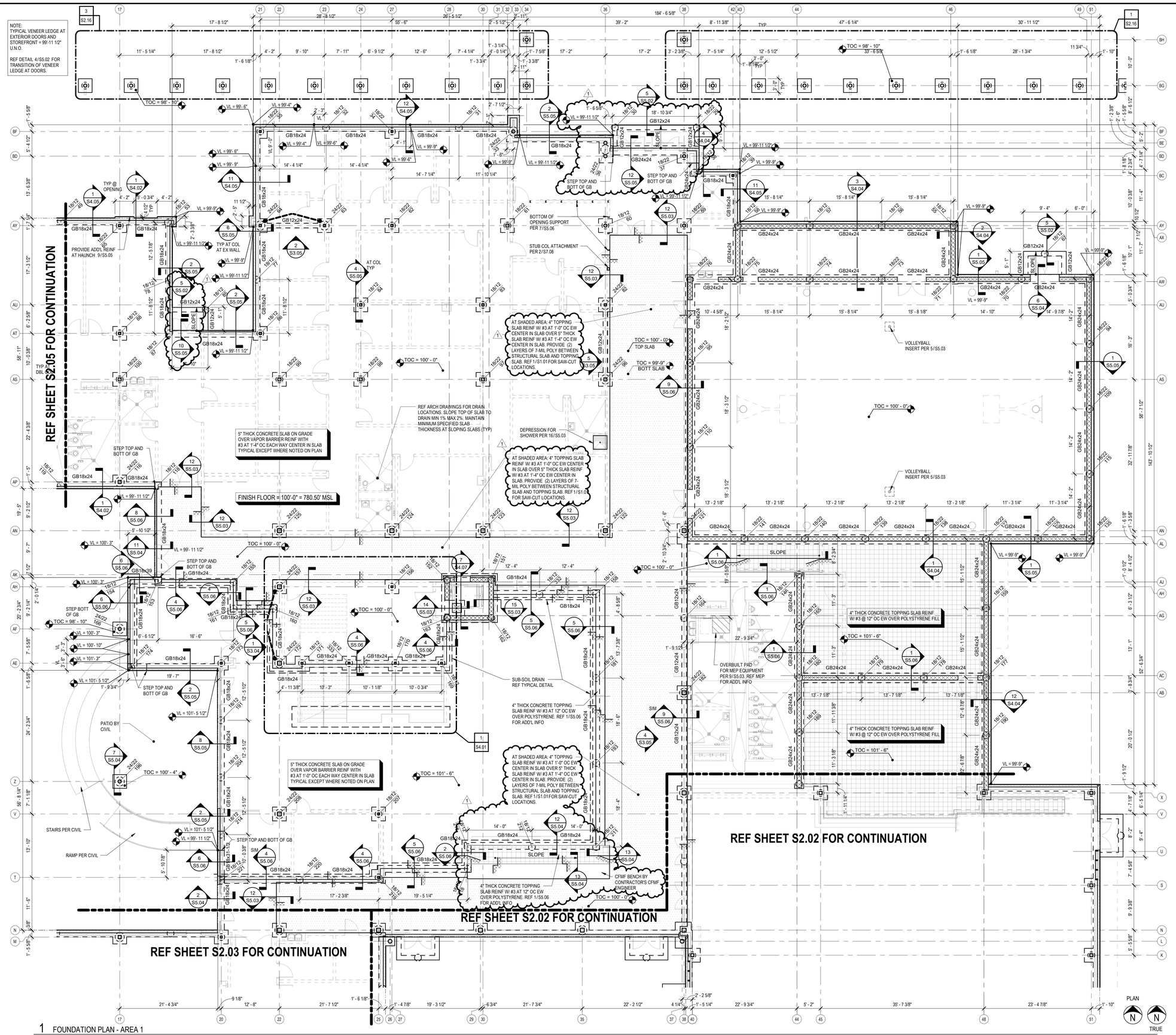
1. STRIP THE AREA OF ALL TOPSOIL (SOIL WITH HIGH ORGANIC CONTENT, E.G. >4%), TREE ROOTS, VEGETATION, WET SOILS, AND ANY SOFT OR LOOSE SOILS OR ENCOUNTERED EXISTING FILL.
   A. AT THE CONTRACTOR'S OPINION, STRIPPED MATERIALS MAY BE STOCKPILED FOR LATER USE IN LANDSCAPING.
2. PREPARE THE BUILDING SUBGRADE BY REMOVING EXISTING FILL SOILS TO THE TOP OF NATURAL WEATHERED LIMESTONE, IDENTIFIED IN THE GEOTECHNICAL BORINGS AS NATURAL LEAN CLAY/SEVERELY WEATHERED LIMESTONE (CL/SW/LS), ANTICIPATED TO OCCUR APPROXIMATELY 2-1/2 TO 8 FEET BELOW EXISTING GRADE. FOR PROPOSAL PURPOSES ONLY, ASSUME THE TOP OF THIS STRATUM OCCURS AT EL. 776.00 FT. ACTUAL ELEVATION WILL VARY AND SHALL BE VERIFIED IN THE FIELD BY THE SITA.
   A. THE SITA SHALL VERIFY THAT EXCAVATION EXTENDS TO THE REQUIRED NATURAL SUBGRADE MATERIAL PRIOR TO PLACEMENT OF FILL.
3. THE EXCAVATED SOIL SHALL BE REPLACED BY PROPERLY COMPACTED AND TESTED FLEXIBLE BASE OR ALT SELECT FILL TO FINISH GRADE AS LISTED BELOW.
   A. FLEXIBLE BASE: FLEXIBLE BASE SHALL CONFORM TO THE MAXIMUM LIQUID LIMIT, PLASTICITY INDEX (PI) AND GRADATION OF 2024 TXDOT SPECIFICATION BOOK FLEXIBLE BASE MATERIAL TXDOT ITEM 247, TYPE A OR D, GRADE 1-2, OR 3.
   B. ALT SELECT FILL: SELECT FILL SHALL CONSIST OF EITHER ONSITE MILLED ONSITE WEATHERED LIMESTONE OR OFF-SITE CLAYEY GRAVEL (CG), CLAYEY SAND (SC) OR SANDY LEAN CLAY (CLS). THE ALTERNATE SELECT FILL SHALL HAVE A MAXIMUM LIQUID LIMIT OF FORTY (40), A PLASTICITY INDEX BETWEEN FOUR (4) AND TWENTY (20), A MAXIMUM PERCENT PASSING #200 SIEVE 70 PERCENT AND MAXIMUM PARTICLE SIZE OF FOUR (4) INCHES.
4. FLEXIBLE BASE/ALT SELECT FILL SHALL BE PLACED IN HORIZONTAL LOOSE LIFTS OF NOT MORE THAN 8 INCHES IN THICKNESS. FLEXIBLE BASE AND/OR ALTERNATE SELECT FILL SHALL BE MOISTURE TREATED AND COMPACTED TO ACHIEVE A MINIMUM RELATIVE COMPACTION AS STATED BELOW:
   A. FILL 0 TO 5 FEET BELOW FINISHED GRADE: FILL SHALL BE COMPACTED TO MINIMUM OF 95% BASED ON THE MAXIMUM DRY UNIT WEIGHT AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D 698).
   B. FILLS OVER 5 FEET BELOW FINISHED GRADE: FILL SHALL BE COMPACTED TO MINIMUM OF 100% BASED ON THE MAXIMUM DRY UNIT WEIGHT AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D 698).
   C. MOISTURE CONTENT OF MATERIAL SHALL BE WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.
   D. FILL OR SUBGRADE MATERIAL SUBJECTED TO SATURATION OR PRECIPITATION SHALL BE RETESTED FOR MOISTURE CONTENT AND DENSITY PRIOR TO PLACEMENT OF ADDITIONAL FILL MATERIAL THAT DOES NOT COMPLY WITH THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS SHALL BE DRIED OR RE-MOISTURE CONDITIONED, RECOMPACTED, AND RETESTED PRIOR TO PLACEMENT OF ADDITIONAL FILL.
   E. A MINIMUM OF ONE COMPACTION FIELD DENSITY TEST SHALL BE PROVIDED BY THE SITA PER 2,500 SQ FT OF FILL PER LIFT OR A MINIMUM OF THREE TESTS PER LIFT FOR EACH DAY OF FILL PLACEMENT.
   F. PROVIDE A MINIMUM OF ONE SIEVE ANALYSIS, ATTERBERG LIMITS TEST, AND PROCTOR TEST FOR EACH FLEXIBLE BASE OR ALTERNATE SELECT FILL MATERIAL TYPE AND FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.
5. IF SUBSURFACE CONDITIONS ARE ENCOUNTERED THAT DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT OR ASSUMED IN THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE AFFECTED WORK. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE DIFFERING CONDITIONS AS REQUIRED.
6. THE FOLLOWING REQUIREMENTS SHALL BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION AND THROUGHOUT THE LIFE OF THE STRUCTURE:
   A. PROVIDE AND MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING. IN AREAS NOT COVERED BY PAVEMENT, SIDEWALKS, OR OTHER IMPERVIOUS SURFACES, PROVIDE A MINIMUM FALL OF 6 INCHES WITHIN THE FIRST 10 FEET FROM THE EDGE OF THE FOUNDATION SLAB, WHERE PRACTICAL. DO NOT ALLOW WATER TO POND ADJACENT TO THE FOUNDATION.
   B. PROVIDE ROOF GUTTERS AND DOWNSPOUTS. CONNECT DOWNSPOUTS TO THE STORMWATER SYSTEM. DO NOT DISCHARGE ROOF DRAINAGE ADJACENT TO THE FOUNDATION.
   C. LANDSCAPE BEDS OR PLANTERS ADJACENT TO THE BUILDING SHALL BE ELEVATED ABOVE GRADE AND UNDERLAIN WITH AN IMPERMEABLE GEOSYNTHETIC GEOMEMBRANE TO PREVENT WATER FROM PONDING ADJACENT TO THE FOUNDATION OR INFILTRATING INTO THE FOUNDATION SUBGRADE.
   D. EXTERIOR SPRINKLER LINES SHALL NOT BE LOCATED WITHIN 5 FEET OF THE EDGE OF THE FOUNDATION
7. UTILITY TRENCHES SHALL BE SEALED AT THE BUILDING PERIMETER WITH CONCRETE OR COMPACTED CLAY PLUGS, AS REQUIRED TO PREVENT WATER FROM MIGRATING THROUGH THE TRENCH AND BENEATH THE BUILDING

DRILLED SHAFT (PIER) NOTES:

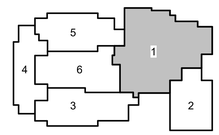
1. PRIOR TO CONCRETE PLACEMENT, THE BASE AND SIDES OF THE SHAFT SHALL BE CLEAN AND FREE OF LOOSE SOIL, CUTTINGS, AND DEBRIS. NO MORE THAN 4 INCHES OF WATER SHALL BE PRESENT AT THE BOTTOM OF THE SHAFT WHEN CONCRETE PLACEMENT BEGINS.
2. PROVIDE SONOTUBE FORMING FROM THE GROUND SURFACE AT THE TIME OF DRILLING TO A MINIMUM DEPTH OF 2'-0" BELOW THE GROUND SURFACE TO PREVENT MUSHROOMING OF THE DRILLED SHAFT.
3. DRILLED SHAFT STEEL SHALL BE DELIVERED TO THE JOB SITE IN 40' OR 60' LENGTHS AND THE PIER CAGE BUILT TO THOSE LENGTHS. AFTER EACH SHAFT IS DRILLED, THE STEEL FOR THAT SHAFT SHALL BE CUT FROM THE STANDARD CAGE TO THE EXACT REQUIRED LENGTH. NO SPLICING OF THE STEEL SHALL BE ALLOWED.
4. PROVIDE 1 1/2 EXTRA TURNS TOP AND BOTTOM FOR DRILLED SHAFT SPIRAL REINFORCEMENT.
5. THE DRILLER SHALL USE A ROCK BIT WITH CARBIDE- OR DIAMOND-TIPPED TEETH IF ROCK IS ENCOUNTERED DURING THE DRILLING OPERATION. THE CONTRACTOR SHALL PROVIDE A DRILLING RIG CAPABLE OF DRILLING THE HOLES BASED ON THE BORING LOGS IN THE GEOTECHNICAL REPORT (OR AVAILABLE UPON REQUEST).
6. NOTE TO BUILDING OFFICIAL: IT IS THE SEOR'S INTERPRETATION OF CODE REQUIREMENTS THAT ACI 318 PROVISIONS FOR REINFORCEMENT OF CONCRETE COLUMNS DO NOT APPLY TO A DEEP FOUNDATION ELEMENT SUCH AS A DRILLED PIER OR ACIP PILE BECAUSE THEY ARE LATERALLY BRACED BY THE SOIL AGAINST WHICH THEY ARE CAST. WHILE SOME SOIL SHRINKAGE WITHIN THE ACTIVE DEPTH NEAR THE TOP OF THE DFE MAY RESULT IN SUCH SOIL BEING NEGLECTED REGARDING THE LATERAL BRACING OF THE ELEMENT, THE LENGTH OF SUCH SHRINKAGE RELATIVE TO THE TYPICAL ELEMENT CROSS-SECTION IS NEGLIGIBLE AND MAY THEREFORE BE IGNORED. PLEASE NOTIFY THE SEOR BEFORE ISSUING A BUILDING PERMIT IF THIS INTERPRETATION IS NOT ACCEPTABLE.
7. TOP OF DFE ELEVATION SHALL EQUAL BOTTOM OF GRADE BEAM. PILASTER, OR SLAB ELEVATIONS AS REQUIRED. TOP OF DFE ELEVATIONS ARE DELIBERATELY NOT PROVIDED ON THE FOUNDATION PLANS. TOP OF DFE ELEVATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR BASED ON THE GEOMETRIC GRADE BEAM REQUIREMENTS DEFINED BY THE GRADE BEAM SCHEDULE AND BY TAKING INTO CONSIDERATION THE TOP OF SLAB ELEVATIONS DEFINED ON THE STRUCTURAL AND CIVIL DRAWINGS AND FINAL GRADE ELEVATIONS DEFINED ON THE CIVIL DRAWINGS. THE TOP OF DFE ELEVATIONS SHALL ALLOW FOR THE BOTTOM OF ALL GRADE BEAMS TO EXTEND A MINIMUM OF 12" BELOW ALL EXTERIOR FINAL GRADE. CONTRACTOR TO COORDINATE GRADE BEAM DEPTHS (AFTER ALL ADDENDUM) AND INCREASE THE DEPTH OF THE GRADE BEAMS AS REQUIRED TO MEET THIS MINIMUM REQUIREMENT.
8. THE LIMESTONE DOES CONTAIN VUGGY LAYERS AND SMALL VOIDS. IF REQUIRED DRILLING PENETRATION ENDS ON A VOID OR HIGHLY VUGGY LIMESTONE SEAM, THE SHAFT SHALL BE EXTENDED TO THE NEXT COMPETENT LIMESTONE LAYER. THIS MAY RESULT IN SOME ADDITIONAL DRILLING, IN SELECT SHAFTS, AND THE ADDITIONAL DRILLING SHALL BE TREATED AS REQUIRED DEPTH.
9. VIBRATE THE UPPER 5 FEET OF CONCRETE IN DRILLED SHAFTS USING A HIGH-FREQUENCY INTERNAL VIBRATOR TO PROVIDE PROPER CONSOLIDATION.
10. PLACEMENT OF CONCRETE USING A FREE-FALL METHOD SHALL ONLY BE PERMITTED PROVIDED THE CONCRETE IS DIRECTED THROUGH A HOPPER AND FALLS DOWN THE CENTER OF THE SHAFT WITHOUT STRIKING THE SIDES OF THE SHAFT OR REINFORCING STEEL CAGE AND WITHOUT SEGREGATION OF THE CONCRETE. IF THESE CONDITIONS CANNOT BE MAINTAINED, CONCRETE FOR DRILLED SHAFTS SHALL BE PLACED USING A TREMIE PIPE.

CAST-IN-PLACE CONCRETE NOTES:

1. REFER TO SECTION 03 3000 OF THE PROJECT SPECIFICATIONS FOR CONCRETE MIX DESIGN REQUIREMENTS.
2. HOT- AND COLD-WEATHER CONCRETE PLACEMENT, PROTECTION, AND CURING SHALL COMPLY WITH THE PROJECT SPECIFICATIONS.
3. CONCRETE CYLINDERS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS FOR EACH DAY'S POUR. THE CONCRETE SLUMP, TEMPERATURE, AND AIR CONTENT SHALL BE MEASURED EACH TIME A SET OF FOUR CYLINDERS IS MADE.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR CONCRETE CONSTRUCTION FOR BUILDINGS" (ACI 301) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI).
   A. UNLESS NOTED OTHERWISE, IT SHALL BE ASSUMED THAT CONCRETE REINFORCEMENT BE SPLICED WITH "TYPE B" SPLICES PER ACI 318.
5. COVER FOR ALL REINFORCEMENT SHALL MEET THE COVERAGE REQUIREMENTS OF THE LATEST EDITION OF ACI 318 AS NOTED BELOW OR AS SHOWN ON THE DETAILS. COVER DIMENSIONS SHOWN ON THE DETAILS CONTROL OVER THOSE REQUIRED BY ACI 318 AND THOSE NOTED BELOW:
   A. CAST AGAINST FORMED SURFACES: 1 1/2"
   B. CAST AGAINST EARTH: 3"
   C. BETWEEN REBAR: 1 1/2"
   D. TOP OF SLAB ON GROUND: 1 1/2"
   E. TOP OF SLAB OVER METAL DECK: 1"
6. ANY CONCRETE TO BE PLACED FURTHER THAN 16 FEET FROM THE END OF A CONCRETE TRUCK SHALL BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK OR OTHER PLACEMENT METHOD APPROVED BY THE SEOR. THE CONCRETE TRUCK SHALL NOT BE ALLOWED TO DRIVE OVER THE PREPARED SUBGRADE OR THE CONCRETE REINFORCEMENT.
7. REINFORCING STEEL SHALL BE NEW, DOMESTIC, DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60, ANY BAR MAY BE FIELD BENT ONE TIME WITHOUT NOTIFYING THE SEOR UNLESS NOTED OTHERWISE. REINFORCEMENT SMALLER THAN #4 BARS SHALL BE COLD BENT. REINFORCEMENT GREATER THAN #4 BARS SHALL BE BENT WITH HEAT IN THE FIELD. HEATING SHALL BE CONTROLLED BY TEMPERATURE INDICATING CRAYONS AND SHALL REACH A MAXIMUM TEMPERATURE OF 1,500 DEGREES FAHRENHEIT. REINFORCEMENT SHALL NOT BE ARTIFICIALLY COOLED UNTIL TEMPERATURE HAS NATURALLY DECREASED TO BELOW 600 DEGREES FAHRENHEIT. BENDS SHALL BE GRADUAL AND CARE SHALL BE TAKEN TO PREVENT HEATING OR CRACKING OF CONCRETE. IF REINFORCEMENT MUST BE FIELD BENT MORE THAN ONCE, THE CONTRACTOR SHALL ISSUE AN RFI INDICATING WHICH BARS REQUIRE MULTIPLE BENDING INSTANCES.
8. WELDING OF ASTM A615 REINFORCING BARS IS NOT PERMITTED. ANY REINFORCING STEEL SHOWN OR INTENDED TO BE WELDED TO EMBED PLATES OR OTHER STEEL ELEMENTS SHALL BE EITHER ASTM A706 GRADE 60 REINFORCING BARS OR D2L DEFORMED BAR ANCHORS AS MANUFACTURED BY NELSON STUD WELDING INC, OR SEOR-APPROVED EQUAL. ONLY BARS THAT ARE SPECIFIED DIAMETER AND LENGTH, DEFORMED BAR ANCHORS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS, INCLUDING ALL APPLICABLE ICC-ES EVALUATION SERVICE REPORTS. ONCE WELDED, DEFORMED BAR ANCHORS SHALL NOT BE CUT, MODIFIED, HEATED, OR RE-WELDED. FIELD WELDING SHALL NOT BE USED AS A REPAIR METHOD UNLESS SUCH MODIFICATION IS EXPLICITLY PERMITTED IN WRITING BY THE ANCHOR MANUFACTURER AND APPROVED BY THE SEOR.
9. PROVIDE CORNER BARS IN FOOTINGS THAT ARE THE SAME SIZE AND QUANTITY/ SPACING AS THE PRIMARY CONTINUOUS REINFORCEMENT UNLESS NOTED OTHERWISE.
10. WHERE REQUIRED, STEP NEW FOOTINGS UP OR DOWN BY RATIO OF TWO HORIZONTALS TO ONE VERTICAL WHERE JOINING WITH EXISTING FOOTINGS. CAST STEPPED FOOTINGS MONOLITHICALLY.
11. PROVIDE DOWELS WHERE CONCRETE (OR CMU) WALLS, PILASTERS, OR PIERS INTERSECT WITH FOOTINGS/ GRADE BEAMS USING BARS THAT ARE THE SAME SIZE AND QUANTITY/ SPACING AS THE WALL'S/ PILASTERS'/ PIER'S VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3" OF BOTTOM OF FOOTINGS/ GRADE BEAMS AND TERMINATE WITH STANDARD 90 DEGREE HOOKS (PER ACI) UNLESS NOTED OTHERWISE.
12. PROVIDE A ROUGH CONCRETE SURFACE (1/4" MINIMUM AMPLITUDE) WHERE CMU WALLS, STEM WALLS, AND PILASTERS INTERSECT WITH THE TOP OF FOOTINGS/ GRADE BEAMS. DO NOT PROVIDE A KEYWAY UNLESS NOTED OTHERWISE.
13. PROVIDE 1" x 1" CHAMFER AT ALL EXPOSED CORNERS UNLESS NOTED OTHERWISE.
14. NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS, BEAMS, OR WALLS EXCEPT AS FOLLOWS:
   A. WHERE SHOWN AND AS DETAILED ON DRAWINGS
   B. MISCELLANEOUS HOLES THROUGH SLABS OR WALLS WHICH DO NOT DISPLACE MORE THAN ONE REINFORCING BAR (THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT)
15. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO SEOR. LOCATE WALL CONSTRUCTION JOINTS AT MASONRY CONTROL JOINTS WHERE POSSIBLE. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT. DETAIL JOINT AND SHOW ON SHOP DRAWINGS. CONSTRUCTION JOINTS IN STRUCTURALLY SUSPENDED SLABS OVER VOID BOXES SHALL BE LOCATED AT GRADE BEAMS.
16. SAW-CUTS IN CONCRETE SLABS SHALL BE MADE USING EARLY-ENTRY EQUIPMENT AS SOON AS THE CONCRETE IS OF SUFFICIENT STRENGTH TO SAW WITHOUT RAVELING OF THE AGGREGATE. ANY TIME LAPSE GREATER THAN 4 HOURS AFTER PLACING THE CONCRETE SHALL BE PERMITTED ONLY IF APPROVED BY THE SEOR. IF NOT INDICATED OTHERWISE, FOR PROPOSAL PURPOSES THE CONTRACTOR SHALL ASSUME THAT SAW CUTS OF SLABS ON GRADE SHALL BE REQUIRED BETWEEN ALL COLUMNS, AT CORNERS IN THE SLABS, AND AT 10'-0" ON-CENTER MAXIMUM BETWEEN SAW CUTS. SHALL OCCUR IN BOTH PLAN DIRECTIONS AND PANELS SHALL HAVE ASPECT RATIOS OF 1.5:1 MAXIMUM. THE CONTRACTOR SHALL ISSUE A PROPOSED LAYOUT TO THE SEOR AND ARCHITECT FOR APPROVAL PRIOR TO PLACING SLABS. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL SAW-CUTTING INFORMATION.
17. WHERE MASONRY VENEER IS LOCATED ADJACENT TO GRADE BEAMS GREATER THAN 24 INCHES HIGH, PROVIDE VENEER TIES IN ACCORDANCE WITH SECTION 04 2000 OF THE PROJECT SPECIFICATIONS.
18. PLACE INTERMEDIATE HORIZONTAL BARS (#4 AT 12" MAXIMUM) ON EACH VERTICAL FACE OF ALL BEAMS GREATER THAN 36" IN DEPTH UNLESS NOTED OTHERWISE.
19. CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.
20. REINFORCING BARS, BAR SUPPORTS, AND SPACERS SHALL BE DETAILED AND PROVIDED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL PROVIDE DAYTON SUPERIOR (800-745-3700) OR EQUAL WIRE-BAR SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS AND SPACED NO FURTHER THAN 4 FEET APART UNLESS NOTED OTHERWISE. BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS (AND WELDED WIRE REINFORCEMENT) SHALL BE MANUFACTURED FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO THE "MANUAL OF STANDARD PRACTICE" PUBLISHED BY CRSI, AND AS FOLLOWS:
   A. FOR CONCRETE SURFACES EXPOSED TO VIEW WHERE LEGS OF WIRE BAR SUPPORTS CONTACT FORM, USE CRSI CLASS 1 PLASTIC-PROTECTED STEEL WIRE OR CRSI CLASS 2 STAINLESS-STEEL BAR SUPPORTS.
   B. FOR SLABS ON GRADE, PROVIDE SAND PLATES OR HORIZONTAL RUNNERS ON BOTTOM WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS OR WHERE VAPOR BARRIER HAS BEEN SPECIFIED. CONCRETE BLOCK OR CLAY MASONRY SHALL NOT BE USED.
   C. AT SLABS ON GRADE PROVIDE SLAB THICKNESS MINUS 1 1/2 INCHES HIGH - AT FOOTINGS PROVIDE 3 INCHES HIGH.
21. ALL GRADE BEAM REINFORCEMENT SHALL BE CONTINUOUS WHERE POSSIBLE. TOP BARS SHALL BE SPLICED ABOVE THE APPROXIMATE MID-POINT BETWEEN SUPPORTS. BOTTOM BARS SHALL BE SPLICED ABOVE THE SUPPORTS. ANY OTHER HORIZONTAL AND TEMPERATURE BARS SHALL BE SPLICED AS REQUIRED. REFER TO THE DETAILS AND SCHEDULES FOR REQUIRED SPLICE LENGTHS.
22. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR DETAILS AND EXACT LOCATIONS OF DEPRESSED SLABS, FLOOR DRAIN LOCATIONS, PLATFORMS, CURBS, AND PADS.
23. ALL GRADE BEAMS SHALL BE FORMED ON BOTH SIDES WITH NO TRENCHING ALLOWED. FORMS SHALL BE EITHER PLYWOOD BOX FORMS OR STEEL FORMS WITH FORM TIES, WHALERS, AND ADJUSTABLE BRACES. NO DIMENSION LUMBER (2x) SHALL BE USED FOR FORMING GRADE BEAMS. ANY PLYWOOD UNDER THE GRADE BEAM SHALL BE REMOVED.
24. NO PIPING OR CONDUITS SHALL BE INSTALLED IN ANY CONCRETE WITHOUT THE APPROVAL OF THE SEOR. IF APPROVED BY THE SEOR, ANY PIPING OR CONDUITS MUST BE LOCATED IN THE MIDDLE OF THE SLAB AND MAY NOT BE OVER ONE INCH IN DIAMETER. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR PENETRATIONS.
25. EXPANDED POLYSTYRENE FILL SHOWN ON THE DRAWINGS SHALL BE CAPABLE OF WITHSTANDING A 200 PSF UNIFORM LOA



1 FOUNDATION PLAN - AREA 1
S2.01 1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

FOUNDATION LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- DFE TYPE
- DFE NUMBER
- DFE SHAFT
- GRADE BEAM
- PIER CAP
- PILASTER
- SLAB STEP
- FREEZER SLAB REF ARCH FOR EXTENTS & ADD'L INFO
- OVERBUILD SLAB
- FD FLOOR DRAIN
- FS FLOOR SINK
- T/CONC = XX'-XX" T/SLAB ELEVATION
- STRUCTURAL STEEL COLUMN
- BUILDING LINE
- LOW END BRACE FRAME

FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES, SEE DWG. S0.00.
2. FOR FOUNDATION SECTIONS & DETAILS, SEE S5 SERIES DRAWINGS.
3. SEE ARCH DRAWINGS FOR EXACT LOCATION OF SLAB DEPRESSIONS, OPENINGS AND ENTRY AREAS.
4. SLOPE TOP AND BOTTOM OF STRUCTURAL SLAB AT ALL FLOOR DRAINS, MAINTAINING THE MINIMUM OVERALL CONCRETE SLAB THICKNESS AS SPECIFIED AND THE MINIMUM VOID DEPTH AS SPECIFIED.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

GRID LINE DIMENSION LEGEND

STRUCTURAL BUILDING LINE — REF (UNO) — STRUCTURAL GRID LINE
1" CHAMFER EDGE — PLAN

DFE PLAN NOTES

1. REFERENCE 1/S5.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

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Revision / 1 — Date 10/30/20 26 — ADDENDUM 1

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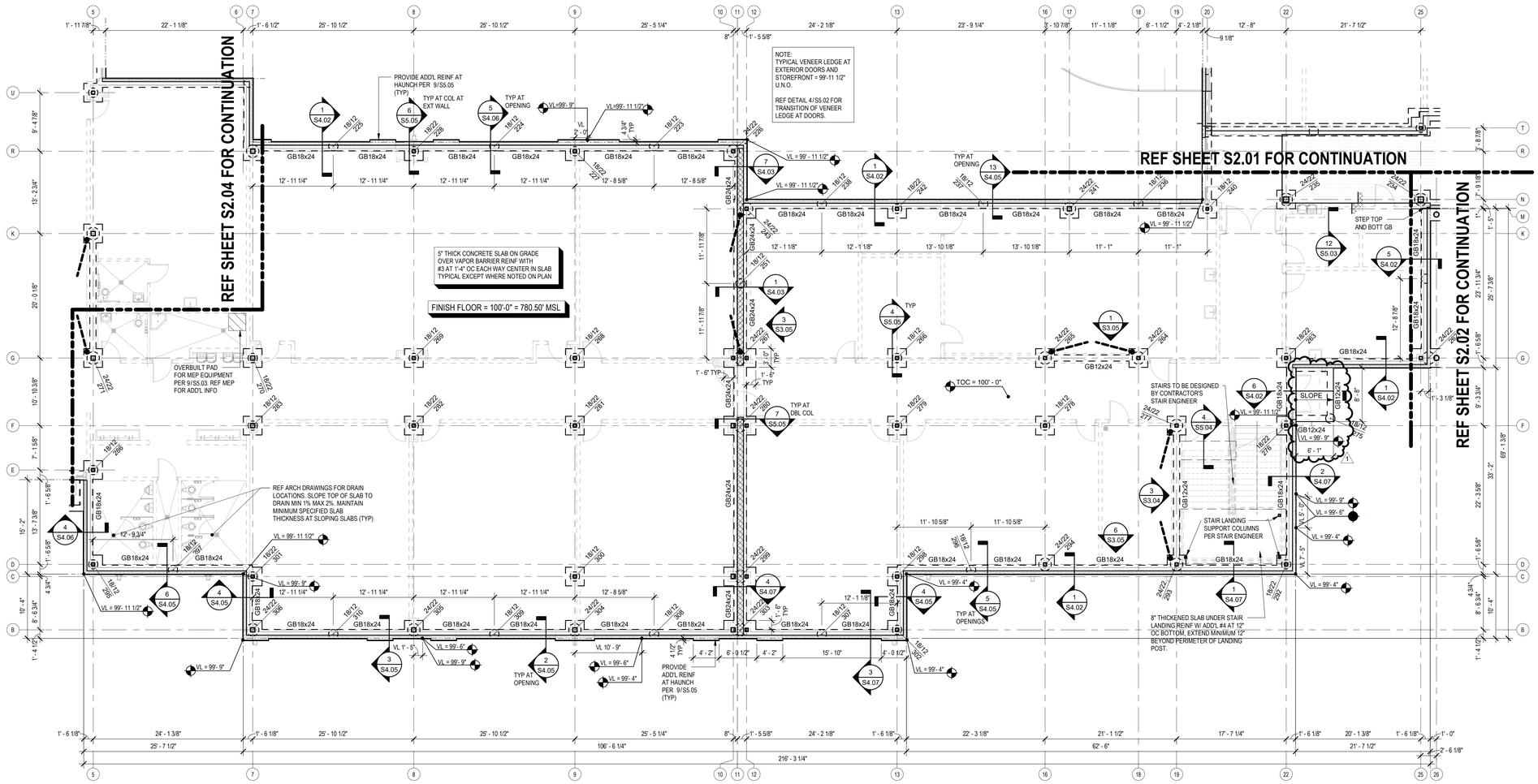
FOUNDATION PLAN - AREA 1

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Date: 10/08/2026	

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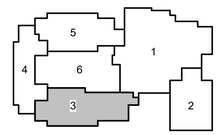
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1 FOUNDATION PLAN - AREA 3
S2.03 1/8" = 1'-0"

PLAN N N TRUE



KEY PLAN - 1ST FLOOR
N.T.S.

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- DFE TYPE
- DFE NUMBER
- DFE SHAFT
- GRADE BEAM
- PIER CAP
- PILASTER
- SLAB STEP
- FREEZER SLAB REF ARCH FOR EXTENTS & ADD'L INFO
- OVERBUILD SLAB
- FD FLOOR DRAIN
- FS FLOOR SINK
- T/CONC = XX'-XX"-T/SLAB ELEVATION
- STRUCTURAL STEEL COLUMN
- BUILDING LINE
- LOW END BRACE FRAME

FOUNDATION LEGEND

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2. FOR FOUNDATION SECTIONS & DETAILS, SEE S5 SERIES DRAWINGS.
3. SEE ARCH DRAWINGS FOR EXACT LOCATION OF SLAB DEPRESSIONS, OPENINGS AND ENTRY AREAS.
4. SLOPE TOP AND BOTTOM OF STRUCTURAL SLAB AT ALL FLOOR DRAINS, MAINTAINING THE MINIMUM OVERALL CONCRETE SLAB THICKNESS AS SPECIFIED AND THE MINIMUM VOID DEPTH AS SPECIFIED.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

FOUNDATION PLAN NOTES

STRUCTURAL BUILDING LINE (UNO) — REF PLAN — STRUCTURAL GRID LINE
1" CHAMFER EDGE

GRID LINE DIMENSION LEGEND

1. REFERENCE 1/S5.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

DFE PLAN NOTES

Revision /	Date	
1	10/30/25	ADDENDUM 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

MOREgroup
www.moregroup-inc.com
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111359
LICENSED PROFESSIONAL ENGINEER
11.2.2026
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F-5923

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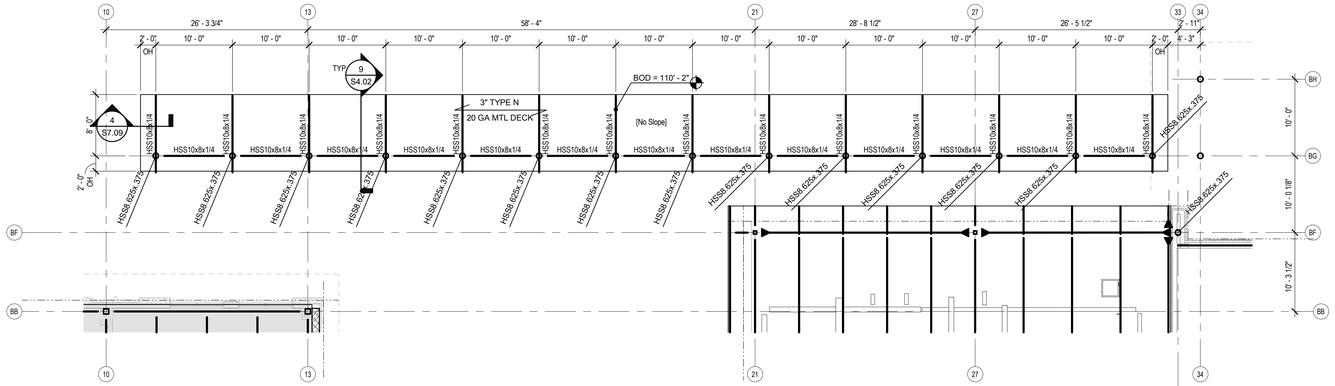
FOUNDATION PLAN - AREA 3

Job No.	Sheet No.
01949-04-01	S2.03
Drawn By: LE, RD	
Date: 10/08/2026	

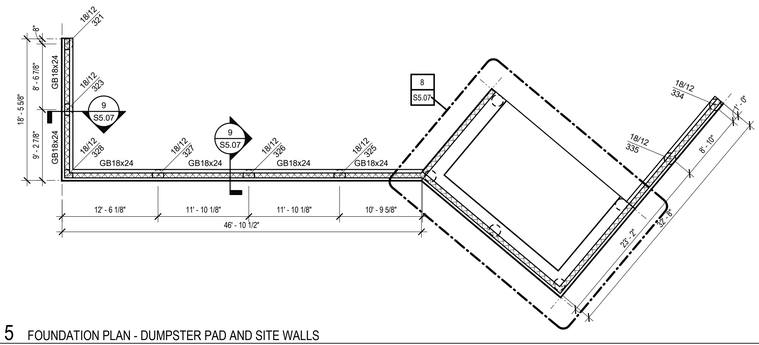
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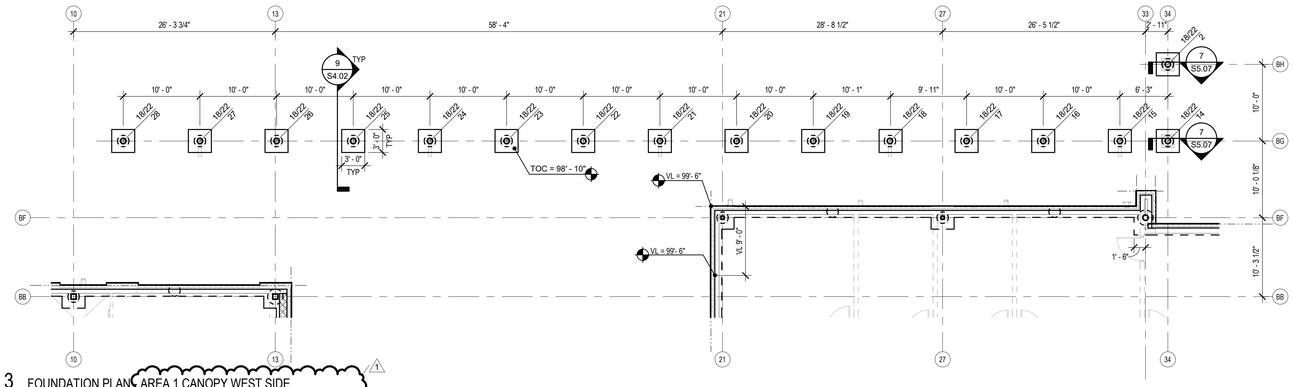
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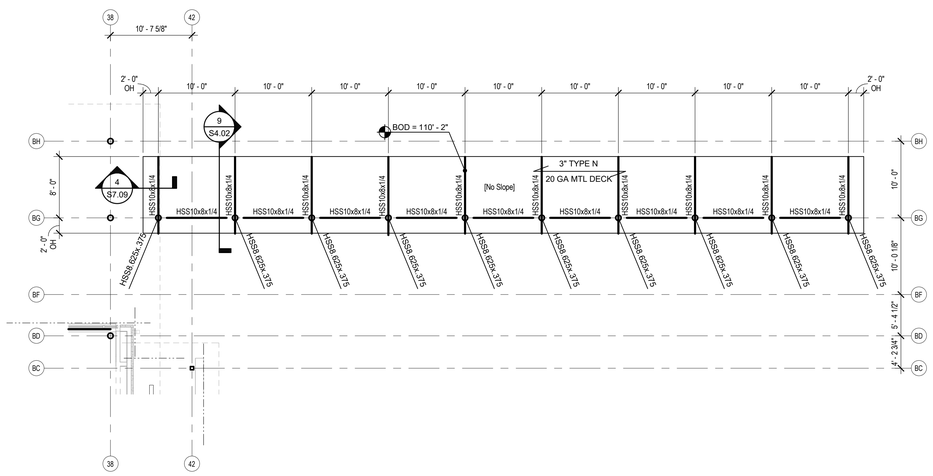
4 ROOF PLAN - AREA 1 CANOPY WEST SIDE
S2.16 1/8" = 1'-0"



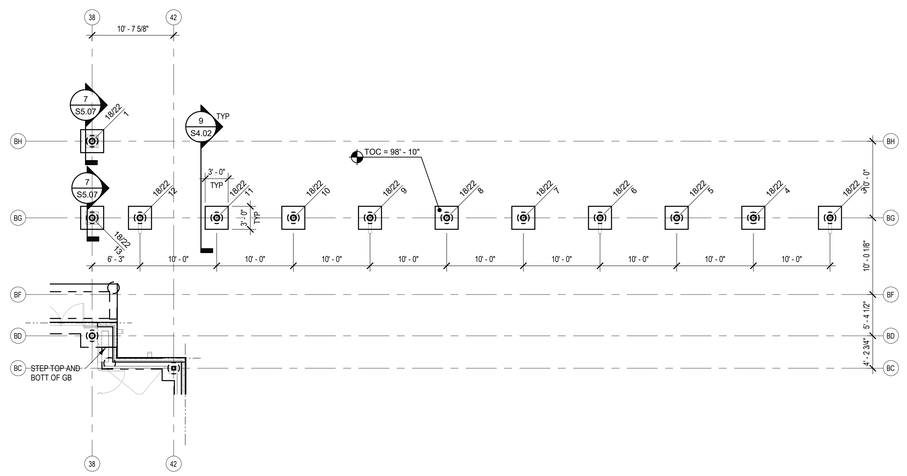
5 FOUNDATION PLAN - DUMPSTER PAD AND SITE WALLS
S2.16 1/8" = 1'-0"



3 FOUNDATION PLAN - AREA 1 CANOPY WEST SIDE
S2.16 1/8" = 1'-0"



2 ROOF PLAN - AREA 1 CANOPY EAST SIDE
S2.16 1/8" = 1'-0"



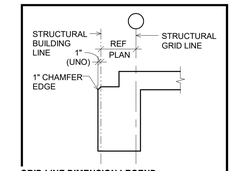
1 FOUNDATION PLAN - AREA 1 CANOPY EAST SIDE
S2.16 1/8" = 1'-0"

INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
DFE TYPE
DFE NUMBER
DFE SHAFT
GRADE BEAM
PIER CAP
PILASTER
SLAB STEP
FREEZER SLAB REF ARCH FOR EXTENTS & ADD'L INFO
OVERBUILD SLAB
FD FLOOR DRAIN
FS FLOOR SINK
T/CONC = XX'-XX" T/SLAB ELEVATION
STRUCTURAL STEEL COLUMN
BUILDING LINE
LOW END BRACE FRAME

FOUNDATION LEGEND

1. FOR GENERAL NOTES, SEE DWG. S0.00.
2. FOR FOUNDATION SECTIONS & DETAILS, SEE S5 SERIES DRAWINGS.
3. SEE ARCH DRAWINGS FOR EXACT LOCATION OF SLAB DEPRESSIONS, OPENINGS AND ENTRY AREAS.
4. SLOPE TOP AND BOTTOM OF STRUCTURAL SLAB AT ALL FLOOR DRAINS, MAINTAINING THE MINIMUM OVERALL CONCRETE SLAB THICKNESS AS SPECIFIED AND THE MINIMUM VOID DEPTH AS SPECIFIED.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

FOUNDATION PLAN NOTES

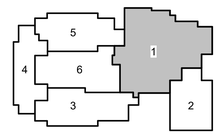


GRID LINE DIMENSION LEGEND

1. REFERENCE 1/S5.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

DFE PLAN NOTES

PLAN N TRUE N



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date
1	10/30/20 25

ADDENDUM 1

Project:

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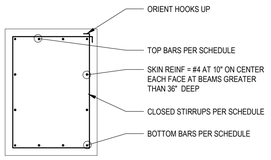
CANOPY AND SITE WALL PLANS

Job No. 01949-04-01	Sheet No. S2.16
Drawn By: LE, RD	
Date: 10/08/2026	

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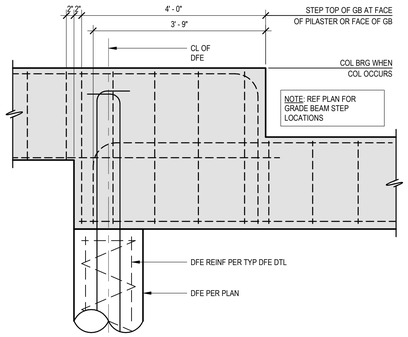


NOTE: THE BOTTOM OF ALL GRADE BEAMS SHALL EXTEND A MINIMUM OF 12" BELOW ALL EXTERIOR FINAL GRADE. CONTRACTOR TO COORDINATE GRADE BEAM DEPTHS (AFTER ALL ADDENDUM) AND INCREASE THE DEPTH OF THE GRADE BEAMS AS REQUIRED TO MEET THIS REQUIREMENT.

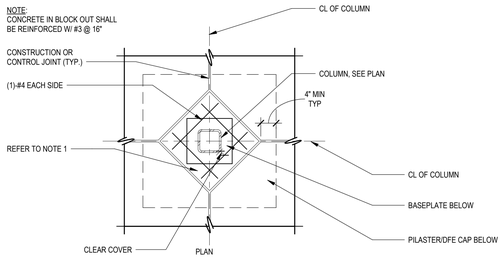
GRADE BEAM SCHEDULE

Mark	GRADE BEAM (GB) SIZE Width (in)	Height (in)	Top Reinf	Bot Reinf	Stirrups	Comments
GB12x24	12"	24"	2 - #8	2 - #8	#4 @ 10" OC	
GB18x24	18"	24"	3 - #8	3 - #8	#4 @ 10" OC	
GB18x31-1/2	18"	31 1/2"	3 - #8	3 - #8	#4 @ 10" OC	
GB18x39	18"	39"	3 - #8	3 - #8	#4 @ 10" OC	
GB24x24	24"	24"	4 - #8	4 - #8	#4 @ 10" OC	
GB30x30	30"	30"	4 - #8	4 - #8	#4 @ 10" OC	
GB36x24	36"	24"	4 - #8	4 - #8	#4 @ 10" OC	

9 TYPICAL GRADE BEAM REINFORCEMENT SCHEDULE
S5.01 3/4" = 1'-0"



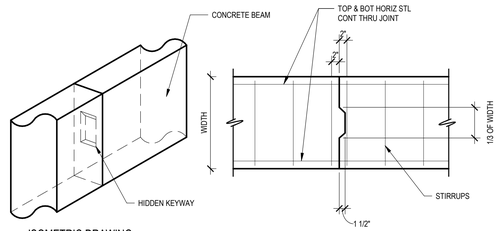
7 TYP STEPPED GRADE BEAM
S5.01 3/4" = 1'-0"



NOTES :
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCK OUT FOR COLUMNS. INCREASE COLUMN BLOCK-OUT DIMENSIONS AS REQUIRED TO ACCOMMODATE GUSSET PLATES AT BRACE FRAMES.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN.

PLAN VIEW

6 TYPICAL DETAIL - BLOCKOUT AT COLUMN (SOG)
S5.01 3/4" = 1'-0"

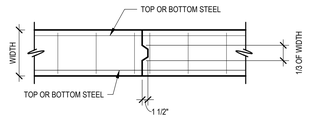


ISOMETRIC DRAWING

VERTICAL SECTION THROUGH MIDDLE OF BEAM

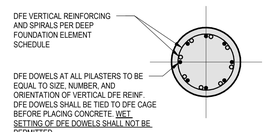
NOTE: FORM KEY WITH 2X LUMBER RIPPED FOUR SIDES. OVERALL DIMENSIONS OF KEY SHALL BE 1/3 BEAM DEPTH X 1/3 BEAM WIDTH

NOTE: THIS JOINT MAY OCCUR ONLY BETWEEN THE 1/4 AND 1/3 POINTS OF A SPAN BETWEEN PIERS; HOWEVER, THIS JOINT MAY NOT OCCUR IN THE FIRST SPAN FROM ANY 90 DEGREE CORNER OR IN ANY SPAN WHICH IS LESS THAN 8 FEET. DO NOT SPLICE REINFORCEMENT AT JOINT



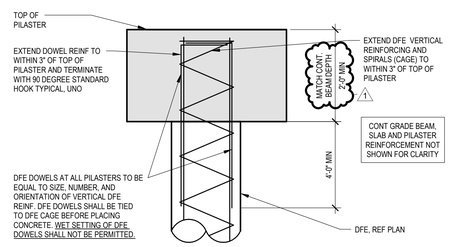
HORIZONTAL SECTION THROUGH MIDDLE OF BEAM

5 TYPICAL BEAM CONSTRUCTION JOINT DETAIL
S5.01 3/4" = 1'-0"



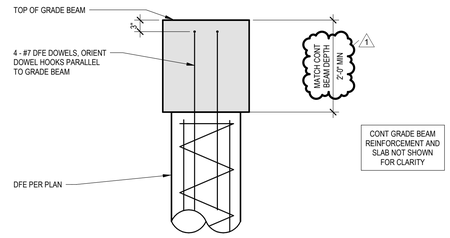
NOTE: WHEN NOT DIMENSIONED ON PLAN, CENTER PIER IN THE SPAN

PLAN

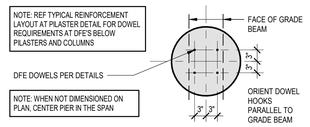


SECTION

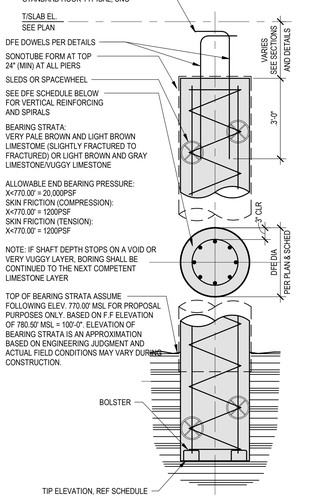
TYPICAL DFE TO PILASTER CONNECTION DETAIL



TYPICAL DFE TO GRADE BEAM DETAIL



TYPICAL DFE DOWEL SETTING PLAN



DFE ELEVATION

NOTE FOR GEOTECHNICAL ENGINEERING REVIEWERS:

IN ADDITION TO OTHER ITEMS FOR REVIEW, PLEASE NOTE THE ELEVATIONS BELOW FOR THE BEARING STRATA AND BOTTOM OF CASING THAT THE CONTRACTOR IS TO ASSUME FOR PROPOSAL PURPOSES ARE NOT ACTUAL ESTIMATES OF THESE ELEVATIONS BUT INSTEAD ARE REFERENCE VALUES TO BE USED FOR COST ADJUSTMENT BY UNIT PRICE AFTER PIERS ARE INSTALLED. WHILE THIS APPROACH ADDRESSES THE INHERENT UNCERTAINTIES ASSOCIATED WITH VARYING BEARING STRATA CONDITIONS, PLEASE PREDICT HOW MUCH PROJECT CONTINGENCY WILL LIKELY BE REQUIRED IN YOUR OPINION IF YOU BELIEVE THESE ELEVATIONS AND PERCENT CASING ASSUMPTIONS WILL LEAD TO ANY USE OF PROJECT CONTINGENCY.

NOTE FOR PROPOSERS DURING PROPOSAL DEVELOPMENT:

FOR PROPOSAL PURPOSES, PROPOSERS SHALL ASSUME 0% OF EACH PIER TYPE WILL REQUIRE TEMPORARY CASING.

(E.G. IF IT IS SPECIFIED TO ASSUME 100% OF PIERS SHALL BE CASED, THAT WOULD INDICATE 100% OF TYPE XXX PIERS, 100% OF TYPE YYY PIERS, ETC...).

TEMPORARY CASING SHOWN HERE DASHED AS IT IS TO BE ASSUMED BY PROPOSERS FOR PROPOSAL PURPOSES FOR EACH PIER TO BE ASSUMED AS CASED. PROPOSERS SHALL PROVIDE UNIT PRICES ON THE PROPOSAL FORM FOR BOTH CASED AND UNCASED PIERS (E.G. ENTIRE PIER LENGTHS FOR UNCASED PIERS, UNCASED PENETRATIONS BELOW CASING FOR CASED PIERS) OF EACH PIER TYPE.

NOTE FOR THE CONTRACTOR DURING CONSTRUCTION:

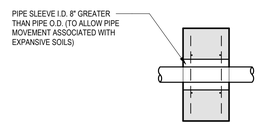
BEFORE DRILLING ANY PIERS, PIER DRILLER SHALL DRILL TEST HOLES PER SPECIFICATION SECTION 01 4533 AND ISSUE AN RFI AND OBTAIN CONFIRMATION FROM THE STRUCTRUAL ENGINEER THAT THE DESIGNED PIERS WILL BE ACCEPTABLE DURING DRILLING, THE SITA (OWNER'S TESTING LABORATORY) SHALL BE THE SOLE DETERMINANT OF WHETHER OR NOT A PIER NEEDS TO BE CASED AND WHAT THE REQUIRED DEPTH OF DRILLING (NOT THE DRILLER) IS FOR EACH PIER, EVEN THOUGH THE SITA SHALL BE PERMITTED TO RELY ON THE DRILLER TO ASSIST IN DETERMINING REQUIRED DEPTHS. THE TESTING LABORATORY SHALL SPECIFICALLY BE THE SOLE DETERMINANT IF ANY ADDITIONAL CASING DEPTH IS REQUIRED RELATIVE TO WHAT THE GEOTECHNICAL REPORT INDICATES. IF THE DRILLER PROCEEDS WITHOUT AUTHORIZATION FROM THE SITA, THE SITA SHALL NOTE ALL UNAUTHORIZED WORK ON OBSERVATION REPORTS AND THE CONTRACTOR SHALL PAY FOR ALL UNAUTHORIZED WORK.

DEEP FOUNDATION ELEMENT (DFE) SCHEDULE

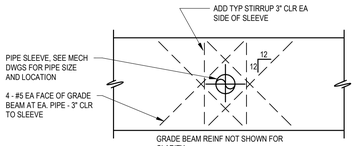
MARK (REFER TO PLAN)	SHAFT DIAMETER (INCHES)	REINFORCING VERTICAL BARS	REINFORCING SMOOTH SPIRALS	MINIMUM TIP ELEVATION
18/12	18"	(6)-#6	3/8" AT 12" PITCH	<varies>
18/22	18"	(6)-#6	3/8" AT 12" PITCH	748.00'
24/22	24"	(8)-#7	3/8" AT 12" PITCH	748.00'

TIP ELEVATIONS SHOWN IN THE DFE SCHEDULE ARE MINIMUM TIP ELEVATIONS. IF A VOID OR HIGHLY VUGGY LIMESTONE SEAM IS ENCOUNTERED AT THE MINIMUM TIP ELEVATION, EXTEND THE SHAFT TO THE NEXT COMPETENT LIMESTONE LAYER, AS DIRECTED BY THE SITA.

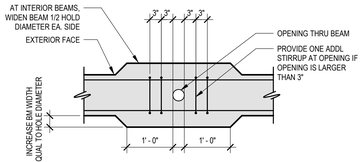
1 TYPICAL DEEP FOUNDATION ELEMENT (STRAIGHT SHAFT PIER)
S5.01 3/4" = 1'-0"



SECTION A-A



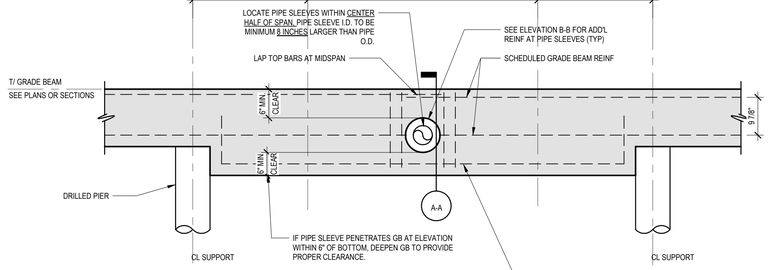
ELEVATION B-B



PLAN VIEW

VERTICAL PENETRATION THROUGH GRADE BEAM

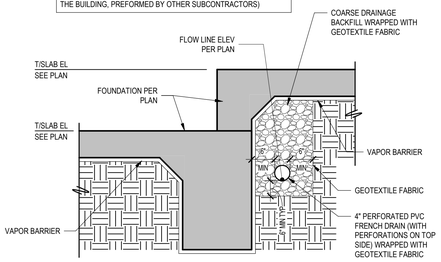
GRADE BEAM WITH HORIZONTAL PIPE SLEEVES PERPENDICULAR TO THE SPAN



NOTES:
1. VOID BOXES AND TYPICAL GRADE BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.
2. SEE TYPICAL GRADE BEAM ELEVATIONS WITH PIPE SLEEVES FOR OTHER CONDITIONS.
3. COORDINATE PIPE SLEEVES WITH OTHER TRADES BEFORE BEGINNING CONSTRUCTION.
4. PROVIDE 2'-6" MIN CLR BETWEEN PIPE SLEEVES.
5. SEE SECTIONS & DETAILS FOR ADDITIONAL REINFORCING.
6. VERTICAL OR LONGITUDINAL PIPE SLEEVES IN GRADE BEAMS ARE NOT ALLOWED.
7. PIPE SLEEVES SHALL BE FORMED WITH SCHEDULE 40 PIPE, PVC OR STEEL.
8. LOCATE PIPE SLEEVES WITHIN CENTER HALF OF SPAN

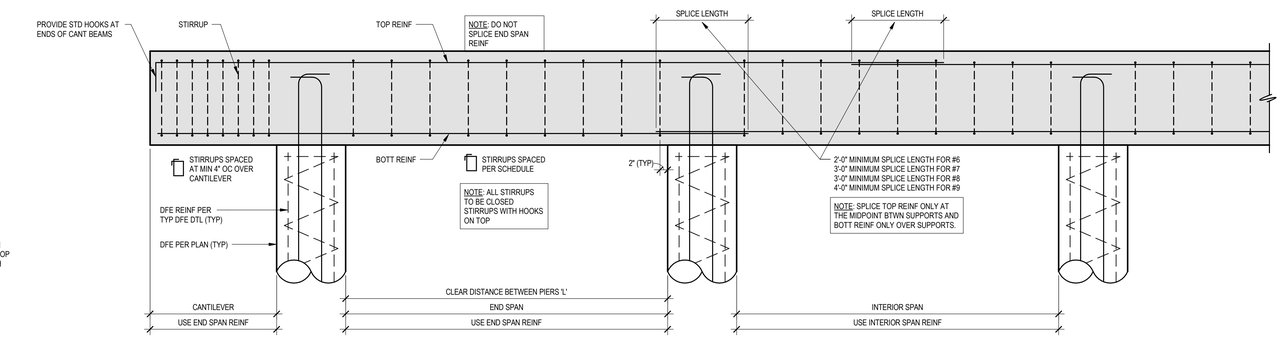
4 TYPICAL FOOTING WITH MID-DEPTH PIPE SLEEVE DETAIL
S5.01 3/4" = 1'-0"

NOTE: SUB-SOIL DRAIN TO MAINTAIN A MINIMUM SLOPE OF 0.5% TOWARD THE CONNECTION TO THE STORM DRAIN SYSTEM. THE SUBCONTRACTOR INSTALLING THE FOUNDATION FOR THE BUILDING SHALL BE RESPONSIBLE FOR CONNECTION OF FRENCH DRAIN TO THE SITE DRAINAGE SYSTEM PER THE CIVIL ENGINEER. BUILDING PLUMBING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING FRENCH DRAIN LINES TO ANY WORK, BEYOND THE BUILDING, PREFORMED BY OTHER SUBCONTRACTORS)



NOTE: THIS DETAIL SHALL APPLY AT ALL SUBSOIL FRENCH DRAINS

3 TYPICAL SUBSOIL DRAIN DETAIL
S5.01 3/4" = 1'-0"



2 TYPICAL CONCRETE BEAM AND WALL FOOTING REINFORCEMENT DETAIL
S5.01 3/4" = 1'-0"

Revision / Date
1 ADDENDUM 1 10/30/20 26

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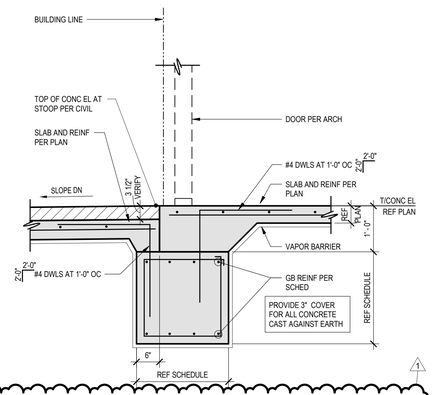
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TYPICAL FOUNDATION DETAILS

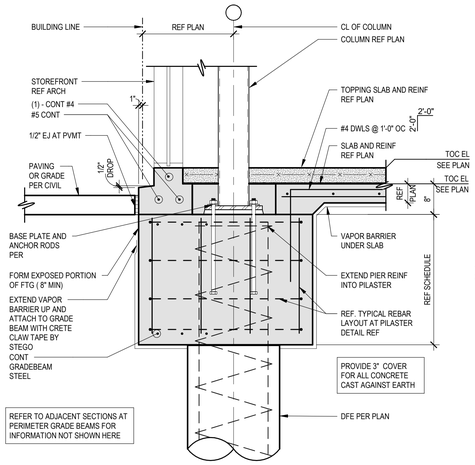
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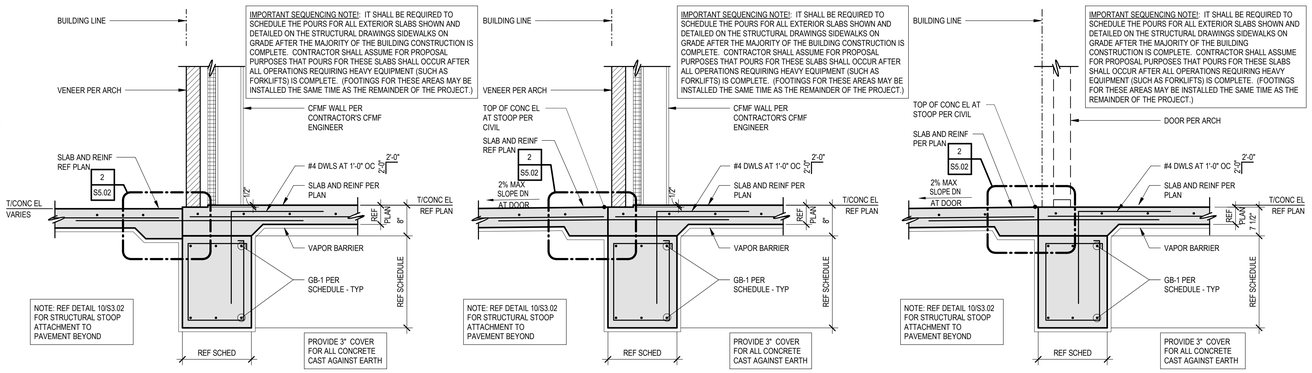
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12 SECTION
S5.05 3/4" = 1'-0"



11 SECTION
S5.05 3/4" = 1'-0"

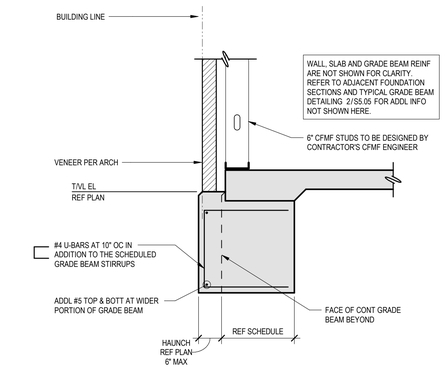


TYPICAL GB/FTG AT SIDE WALL OF RECESSED STRUCTURAL STOOP

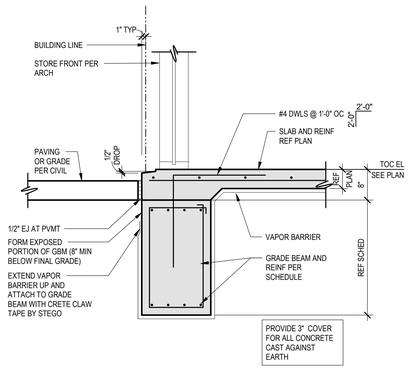
TYPICAL GB/FTG AT STRUCTURAL STOOP

TYPICAL GB/FTG AT STRUCTURAL STOOP THRU DOOR

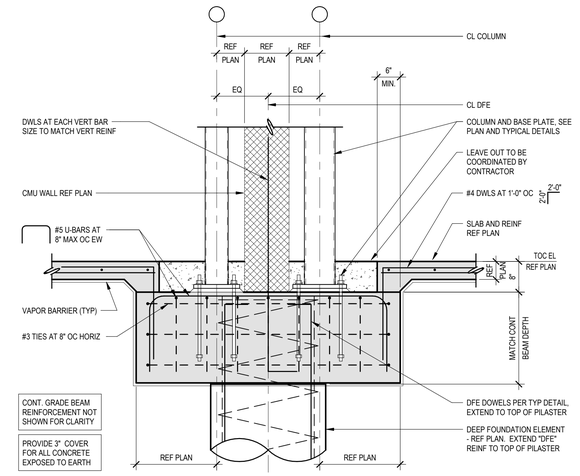
10 TYPICAL SECTION
S5.05 3/4" = 1'-0"



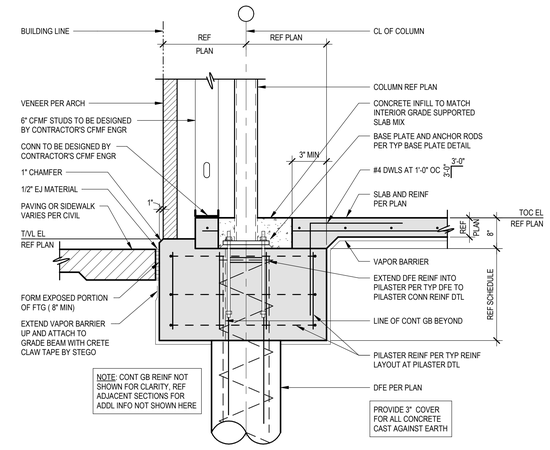
9 TYPICAL HAUNCH DETAIL
S5.05 3/4" = 1'-0"



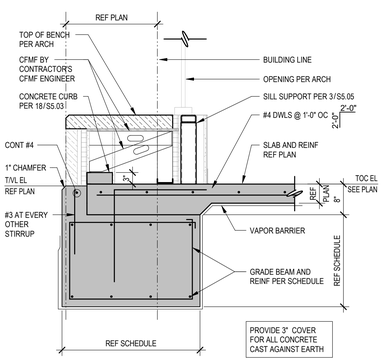
8 SECTION
S5.05 3/4" = 1'-0"



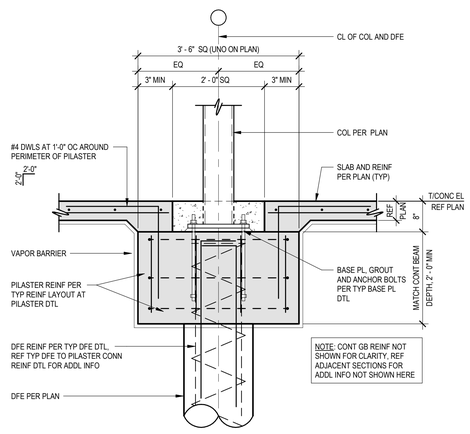
7 SECTION
S5.05 3/4" = 1'-0"



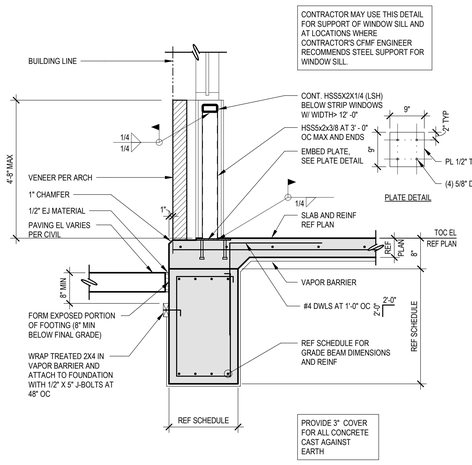
6 SECTION
S5.05 3/4" = 1'-0"



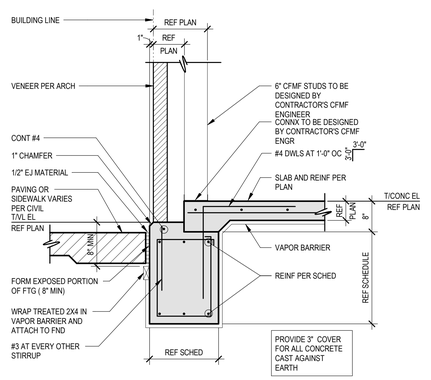
5 SECTION
S5.05 3/4" = 1'-0"



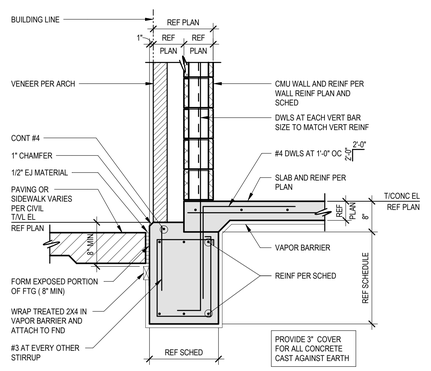
4 TYPICAL INTERIOR COLUMN PILASTER DETAIL
S5.05 3/4" = 1'-0"



3 SECTION
S5.05 3/4" = 1'-0"



2 SECTION
S5.05 3/4" = 1'-0"



1 SECTION
S5.05 3/4" = 1'-0"

Revision / Date
1 ADDENDUM 1 10/30/20 25

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

MOREgroup
www.moregroup-inc.com
888.801.6673
TBPELS Firm No. F-5923

STATE OF TEXAS
R. CRAIG McKEE
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LICENSED PROFESSIONAL ENGINEER
11.2.2026

F-1252
F-5923

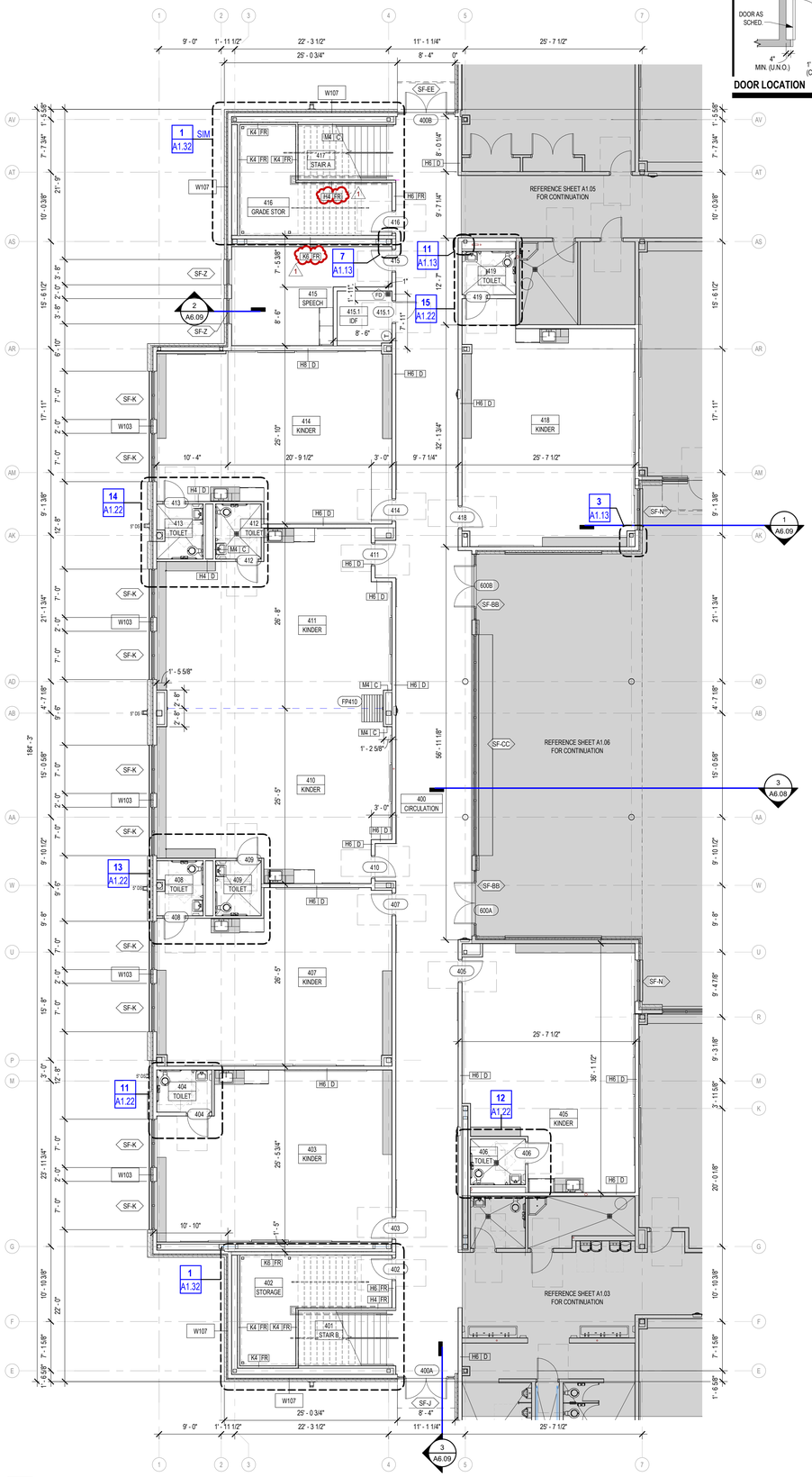
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FOUNDATION SECTIONS

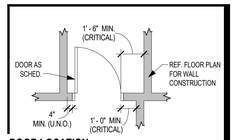
Job No. 01949-04-01
Drawn By: LE, RD
Date: 10/08/2026
Sheet No. S5.05

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11/2/2026 11:45:18 AM
Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01 Jarrell ISD Atlas Ranch ES - R23.rvt



1 FLOOR PLAN - AREA 4 - LEVEL 1
1/8" = 1'-0"



DOOR LOCATION

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F, MASONRY OR CONCRETE, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.

GENERAL FLOOR PLAN NOTES

- **F.E.** — **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS
- **F.E.C.** — **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS
- **P.S.** — **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS
- **'X' M.B.** — **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS
- **'X' T.B.** — **TACKBOARD** REF. TYP. DET. ON A4 SHEETS
- **ELECTRIC WATER COOLER** - REF PLUMBING PLAN.
- 1.01 — **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.
- SF-A — **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.
- SO1.01 — **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.
- 1 / A1.1 — **CALLOUT REFERENCE**
- 1 SIM / A101 — **WALL SECTION REFERENCE** XX / A101
- XXX' -X" FIN FLOOR — **ELEVATION REFERENCE**
- 1-01 ROOM — **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- EXISTING CFMF PARTITION

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	WALL TO 10'-0" WITH RATED GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

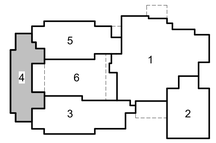
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   MASONRY (EXTENDS TO 4" ABOVE CEILING OR TO NEAREST 8" COURSING ABOVE 4" U.N.O.)
   WALLS/PARTITIONS - TYPE **A8**, NON-ACOUSTICAL
   COLUMN FURRING - TYPE **A6**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
3. TREATED WOOD BLOCKING TO BE PROVIDED AT ALL LOCATIONS WHERE TV DISPLAY AND INTERACTIVE DISPLAYS (INCLUDING FUTURE) ARE NOTED. BLOCKING TO SPAN THE ENTIRE SCHEDULED SURFACE OF THE DISPLAY.
4. ALL EXPOSED CMU PARTITIONS ARE TO INCLUDE BULLNOSE CORNERS AT ALL OUTSIDE CORNERS INCLUDING AT OPENINGS.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND



PLAN N / N TRUE

KEY PLAN - 1ST FLOOR
N.T.S.

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Revision / 1 — Addendum 1
Date 11.03.26

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT ANDREW MARSHALL HUCKABEE 25557 STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

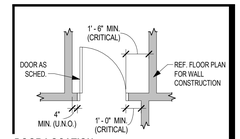
FLOOR PLAN - AREA 4 - LEVEL 1

Job No. 01949-04-01	Sheet No. A1.04
Drawn By: DM	
Date: 10/08/2026	

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Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01 - Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt

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DOOR LOCATION

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
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4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
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7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOP'S & DOOR HOLDERS.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

X' M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

X' T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 SIM **WALL SECTION REFERENCE** XX / A101

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1.01 / ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND APPLIES TO AREA PLANS

REF. TYP. CONST. DTL'S. FOR ADDITIONAL INFO.

- **MASONRY VENEER**
- **STANDARD CMU**
- **ARCHITECTURAL CMU (ACMU)**
- **CFMF PARTITION**
- **EXISTING CFMF PARTITION**

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	WALL TO 10'-0" WITH RATED GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

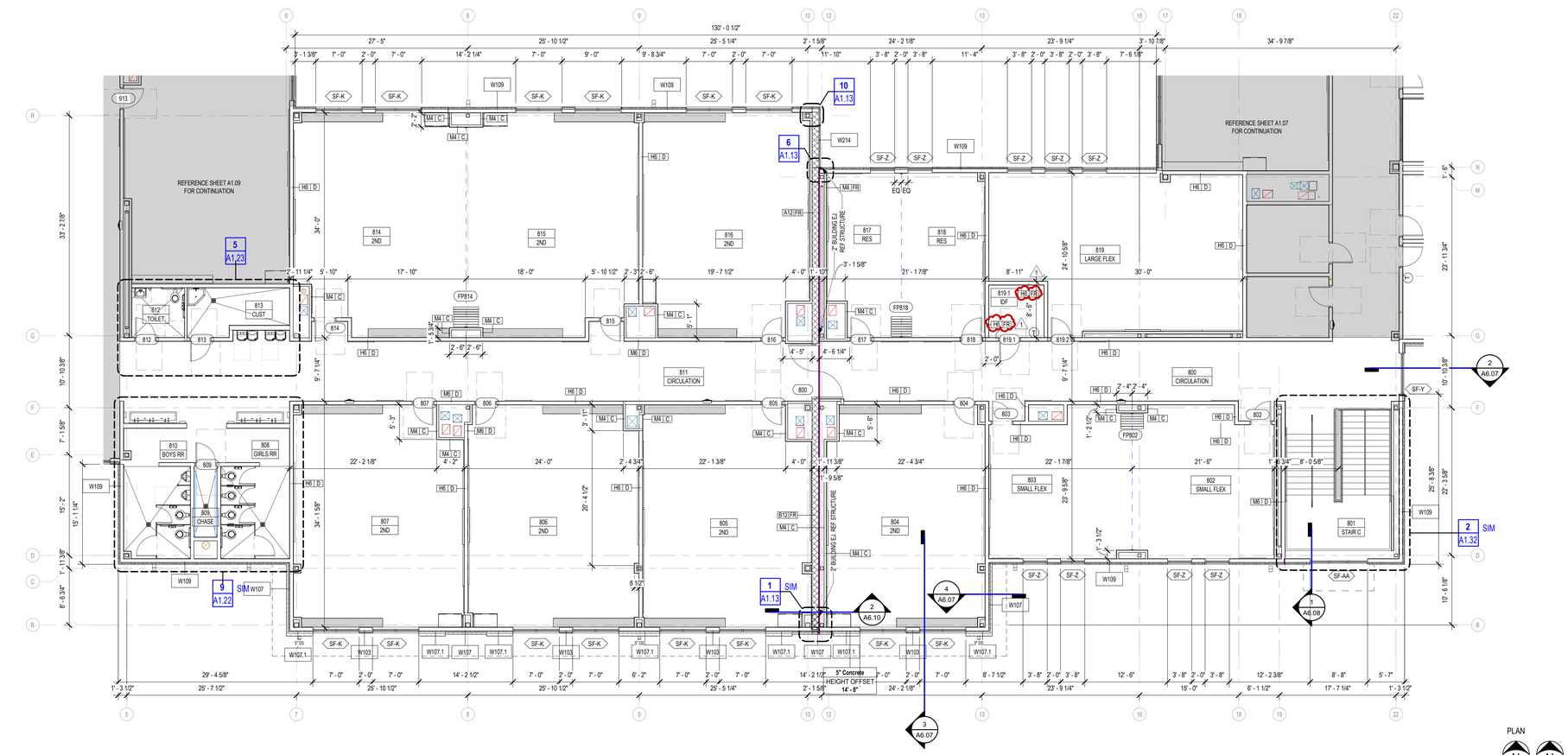
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

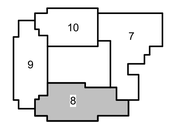
1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
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   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   MASONRY (EXTENDS TO 4" ABOVE CEILING OR TO NEAREST 8" COURSING ABOVE 4" U.N.O.)
   WALLS/PARTITIONS - TYPE **A8**, NON-ACOUSTICAL
   COLUMN FURRING - TYPE **A6**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
3. TREATED WOOD BLOCKING TO BE PROVIDED AT ALL LOCATIONS WHERE TV DISPLAY AND INTERACTIVE DISPLAYS (INCLUDING FUTURE) ARE NOTED. BLOCKING TO SPAN THE ENTIRE SCHEDULED SURFACE OF THE DISPLAY.
4. ALL EXPOSED CMU PARTITIONS ARE TO INCLUDE BULLNOSE CORNERS AT ALL OUTSIDE CORNERS INCLUDING AT OPENINGS.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND



1 FLOOR PLAN - AREA 8 - LEVEL 2
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — MATTHEW ANDREW STEVENS — 25557 — STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

FLOOR PLAN - AREA 8 - LEVEL 2

Job No. 01949-04-01	Sheet No. A1.08
Drawn By: DM	
Date: 10/08/2026	

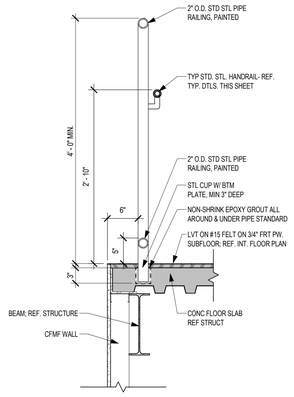
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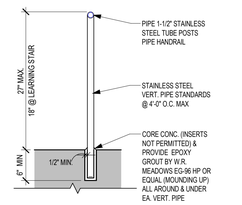
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NOTES:
1) ALL EXTERIOR RAILINGS TO BE GALVANIZED.
2) ALL INTERIOR RAILINGS TO BE STAINLESS STEEL.

RAILING NOTES



14 R3 - RAIL SECTION @ FLOOR EDGE
1" = 1'-0"



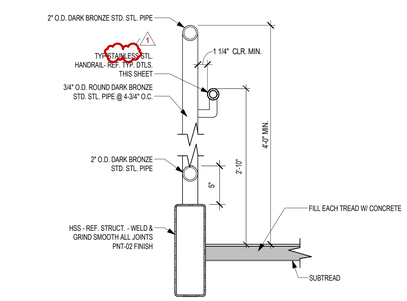
13 RAIL SECTION @ TOP OF LEARNING STAIR
1" = 1'-0"

12 RAIL @ TOP OF LEARNING STAIR
1/2" = 1'-0"

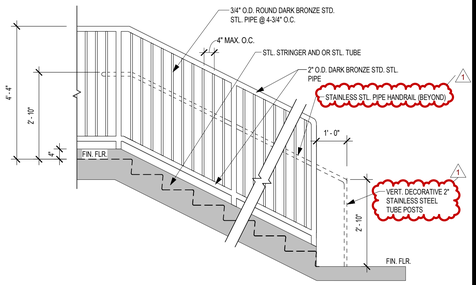
RAIL TYPE 'R5' @ TOP OF LEARNING STAIR

11 RAIL AT LEARNING STAIR
1" = 1'-0"

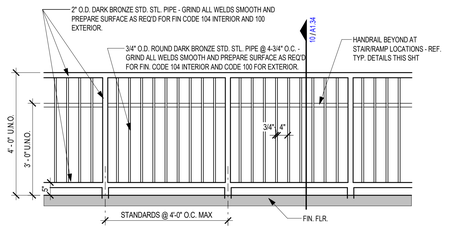
RAIL TYPE 'R4'



10 RAIL SECTION
1 1/2" = 1'-0"

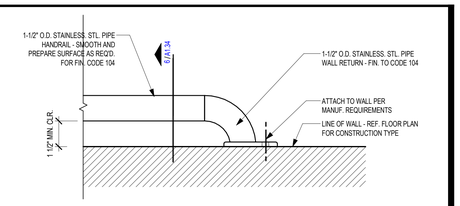


9 RAIL ELEVATION
1/2" = 1'-0"

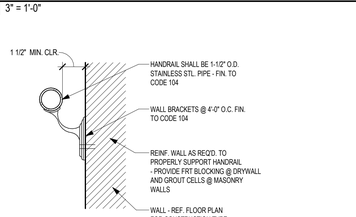


8 TYP GUARDRAIL ELEVATION
1/2" = 1'-0"

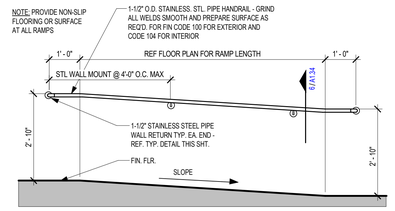
RAIL TYPE 'R3'



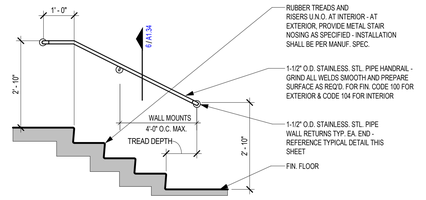
7 RAIL WALL RETURN DETAIL
3" = 1'-0"



6 RAIL SECTION
3" = 1'-0"



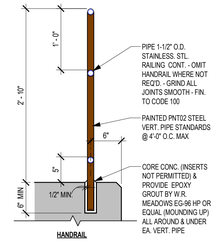
5 RAIL ELEVATION
1/2" = 1'-0"



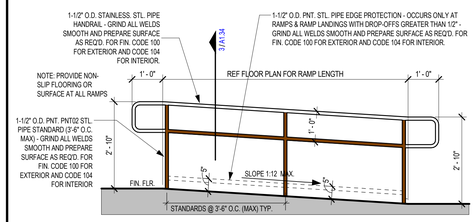
4 RAIL ELEVATION
1/2" = 1'-0"

RAIL TYPE 'R2' NOTE: R2 TO BE GALV. ALUM IN ITS ENTIRETY AT ALL EXTERIOR LOCATIONS

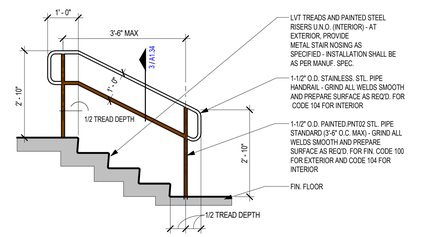
NOTE:
FIN. ALL METAL SURFACES TO CODE 104 (INTERIOR), OR CODE 100 (EXTERIOR) - CORE CONC. AFTER C.T., Q.T. HAVE BEEN INSTALLED - INSTALL V.C.T. & CARPET AFTER POST INSTALLED



3 RAIL SECTION
1" = 1'-0"



2 RAIL ELEVATION
1/2" = 1'-0"



1 RAIL ELEVATION
1/2" = 1'-0"

RAIL TYPE 'R1' NOTE: R1 TO BE GALV. ALUM IN ITS ENTIRETY AT ALL EXTERIOR LOCATIONS

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
STATE OF TEXAS
25557
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

RAILING TYPES AND DETAILS

Job No.	Sheet No.
01949-04-01	A1.34
Drawn By: DM	
Date: 10/08/2026	

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1/12/2026 12:13:18 PM
Autodesk Docs://JARRELL ISD - NEW ATLAS RANCH ES 01949-04-01 Jarrell ISD Atlas Ranch ES_ARCH_v25.rvt

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1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS.
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE, LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL.
   C. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL.
   D. PLENUM ACCESS NOT TO BE LOCATED WITHIN 4" OF ADJACENT OPENINGS/FIXTURES AND NOT TO CROSS CEILING CONTROL JOINTS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE → C4 / CEILING HEIGHT → 9' - 0" → ROOM NUMBER

CEILING

ACB - ACOUSTICAL CEILING BAFFLE

ACC - ACOUSTICAL CEILING CLOUD

ES - EXPOSED DECK AND STRUCTURE

ESF - EXPOSED DECK AND STRUCTURE (FINISHED)

GYP - 5/8" GYPSUM BOARD

GYP1 - 3 LAYERS 5/8" TYPE 'X' GYPSUM BOARD (1-HR. FIRE RATED) (UL i501)

GYP2 - 5/8" MOISTURE RESISTANT GYPSUM BOARD

L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)

L1B - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (**BLACK** TILE AND GRID)

L2 - TYPE II 24" x 24" LAY-IN SUSPENDED CEILING TILE (IMPACT RESISTANT)

L3 - TYPE III 24" x 24" LAY-IN SUSPENDED CEILING TILE (HIGH HUMIDITY)

L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)

L5 - TYPE V 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL "REFLECTIVE")

L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL "ABSORPTIVE") (GLASS FIBER)

L7 - TYPE VII 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL "ABSORPTIVE" - GEN. USE)

L8 - TYPE VIII 24" x 24" LAY-IN SUSPENDED CEILING TILE (UL FIRE RESISTANT)

L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (GLASS FIBER)

LCS - LINEAR CEILING SYSTEM

MCS - METAL CEILING SYSTEM

MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 9' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING

GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED

METAL SOFFIT PANELS

LIGHT FIXTURES - REF. ELECTRICAL

PROJECTION SCREENS - REF. A4 SHEETS

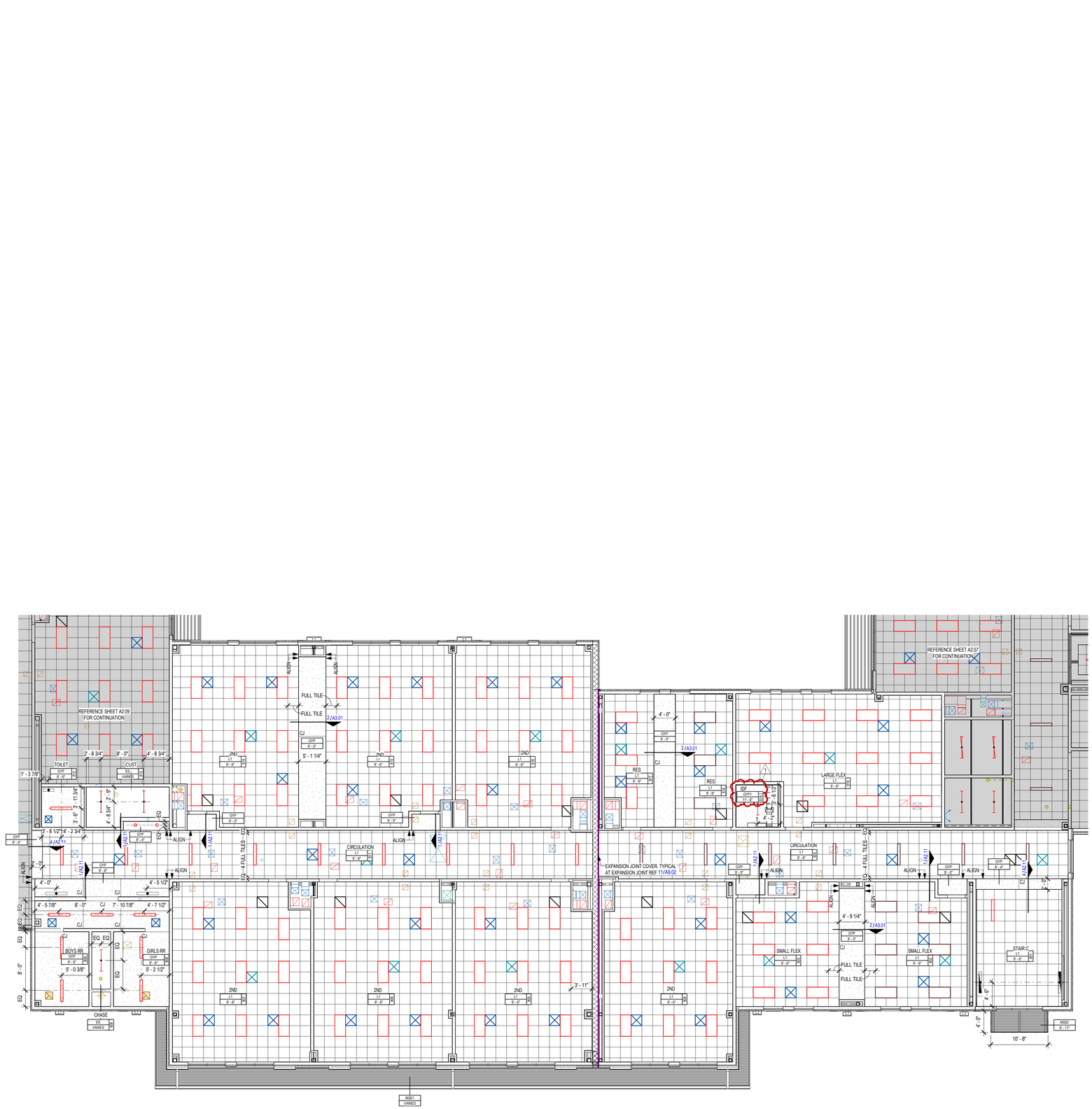
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.

FIRE RATED CEILING ASSEMBLY

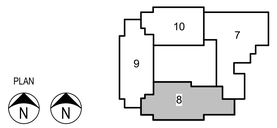
3 LAYERS 5/8" TYPE 'X' GYPSUM BOARD (1-HR. FIRE RATED) (UL i501)

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND



1 REFLECTED CEILING PLAN - AREA 8 - LEVEL 2
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N / TRUE N

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
BRANDEE ANDREW HUDSON
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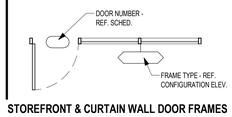
REFLECTED CEILING PLAN - AREA 8 - LEVEL 2

Job No.	Sheet No.
01949-04-01	A2.08
Drawn By: HC	
Date: 10/08/2026	

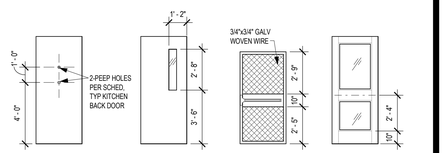
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11/2/2026 12:13:13 PM
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STOREFRONT & CURTAIN WALL DOOR FRAMES



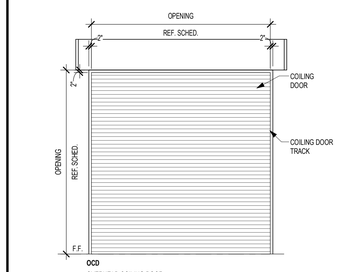
DOOR CONFIGURATIONS

FOLDING PARTITION SCHEDULE

OPENING NUMBER	DOOR TYPE	DOOR DESCRIPTION DR HT	DR WIDTH	DOOR MATERIAL	PANEL WIDTH	PANEL QUANTITY	PASS DOOR QUANTITY	SPECIAL NOTES	OPENING NUMBER
FP306	T	9' - 0"	23' - 2 3/8"	VWC	3' - 10 3/8"	6	0		FP306
FP318	T	9' - 0"	30' - 3"	VWC	3' - 9 3/8"	8	0		FP318
FP410	T	9' - 0"	31' - 4"	VWC	3' - 11"	8	0		FP410
FP717	T	9' - 0"	23' - 10"	VWC	3' - 11 5/8"	6	0		FP717
FP802	T	9' - 0"	20' - 8 3/8"	VWC	3' - 5 3/8"	6	0		FP802
FP814	T	9' - 0"	30' - 3"	VWC	3' - 9 3/8"	8	0		FP814
FP818	T	9' - 0"	24' - 9 1/2"	VWC	3' - 1 1/4"	8	0		FP818
FP904	T	9' - 0"	31' - 0"	VWC	3' - 10 1/2"	8	0		FP904
FP1007	T	9' - 0"	30' - 11"	VWC	3' - 10 3/8"	8	0		FP1007

DOOR SCHEDULE - OVERHEAD ROLL DOWN DOOR

OPENING NUMBER	OPENING HARDWARE SET	FIRE RATING	DOOR EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	SPECIAL NOTES	OPENING NUMBER
AREA 2												
OH204	RU-001		No	13' - 4"	7' - 4"	OCD-AL			STL			OH204



COILING DOOR CONFIGURATIONS

DOOR SCHEDULE HOLLOW METAL FRAMES

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	DOOR EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	FRAME SPECIAL NOTES	OPENING NUMBER
AREA1												
102A	C201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	A		102A
102B	CR201		No	3' - 0"	7' - 0"	SC-NL	GSEF	No	HM	A		102B
103A	C201		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		103A
103B	103S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		103B
104	101J		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		104
105	403S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		105
106	341J		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		106
107	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		107
108A	C201J		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		108A
108B	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		108B
109	341J		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		109
110	341J		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		110
111	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		111
112	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		112
113	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		113
114	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		114
115	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		115
116	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		116
117	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		117
118	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		118
119	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		119
120	103		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		120
121A	C201		No	3' - 0"	7' - 0"	SC-NL	GSEF		HM	A		121A
121B	501S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		121B
122	403		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		122
124	403		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		124
125	201R	45 MIN	No	3' - 0"	7' - 0"	SC-FL	--		HM	A		125
126	C201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	A		126
128A	C201J		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		128A
128B	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		128B
129B	201CRW	60 MIN	No	4' - 0"	7' - 0"	SC-FL	--		HM	A		129B
130	201RSW	45 MIN	No	4' - 0"	7' - 0"	SC-FL	--		HM	A		130
131	C201R	90 MIN.	No	4' - 0"	7' - 0"	SC-FL	GTC		HM	A		131
132	C200S		No	3' - 0"	7' - 0"	SC-NL (PR)	GTC		HM	B		132
138	711		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		138
140A	203		No	2' - 8"	7' - 0"	SC-FL	--		HM	A1		140A
140B	203		No	2' - 8"	7' - 0"	SC-FL	--		HM	A1		140B
141	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		141
142	200CR	45 MIN	No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B		142
144	203SW		No	4' - 0"	7' - 0"	SC-FL	--		HM	A		144
145	S203		No	4' - 0"	7' - 0"	SC-NL	GTC		HM	B		145
146A	710CM		No	3' - 0"	7' - 0"	HM-NL (PR)	GLSA	Yes	HM	B1		146A
146B	710CM		No	3' - 0"	7' - 0"	HM-NL (PR)	GLSA	Yes	HM	B1		146B
146C	C714M		Yes	3' - 0"	7' - 0"	HM-NL (PR)	GLSA	Yes	HM	B2	North	146C
147	212C		No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B1		147
148	103		No	3' - 0"	7' - 0"	SC-NL	GLSA		HM	A1		148
149	201		No	3' - 0"	7' - 0"	SC-FL	--		HM	B		149
150	341J		No	3' - 0"	7' - 0"	SC-FL	--		HM	B		150
AREA 2												
202	S203		No	4' - 0"	7' - 0"	SC-FL	--		HM	A		202
206	203S		No	3' - 0"	7' - 0"	HM-FL	--		HM	A		206
209	C715V2W		Yes	4' - 0"	8' - 4"	HM-FL	--	Yes	HM	A1	South	209
210	101		No	3' - 0"	7' - 0"	HM-NL	GTC		HM	B		210
211	341J		No	3' - 0"	7' - 0"	HM-FL	--		HM	A		211
212	203		No	3' - 0"	7' - 0"	HM-FL	--		HM	A		212
213	403		No	3' - 0"	7' - 0"	HM-FL	--		HM	A		213
215	710CM		No	3' - 0"	7' - 0"	SC-FL (PR)	--	Yes	HM	B1		215
215B	C714MV		Yes	3' - 0"	7' - 0"	HM-NL (PR)	GLSA	Yes	HM	B2	South	215B
217	163W		No	4' - 0"	7' - 0"	HM-FL	--		HM	A1		217
218A	711R	45 MIN	No	3' - 0"	7' - 0"	HM-FL	--	Yes	HM	A1		218A
218B	DE715W		Yes	4' - 0"	7' - 0"	HM-FL	--	Yes	HM	A2	South	218B
219	D203W		Yes	4' - 0"	7' - 0"	HM-FL	--		HM	A2	South	219
708C	212SW		No	3' - 6"	7' - 0"	SC-FL (PR)	--		HM	B1		708C
AREA 3												
300A	E718MRW	90 MIN.	No	4' - 0"	7' - 0"	HM-NL (PR)	GTC	Yes	HM	B		300A
301	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		301
302	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		302
304	201R	60 MIN	No	3' - 0"	7' - 0"	SC-FL	--		HM	A		304
305	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		305
306	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		306
307	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		307
308	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		308
309	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	C		309
310	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	C		310
311	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		311
313	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		313
315	728DRW	90 MIN.	No	4' - 0"	7' - 0"	HM-FL (PR)	--		HM	B1		315
316	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		316
317	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		317
318	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		318
319	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		319
320	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	C		320
321	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		321
322	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		322
323	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		323
324A	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		324A
AREA 4												
402	201R	60 MIN	No	3' - 0"	7' - 0"	SC-FL	--		HM	A		402
403	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		403
404	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		404
405	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		405
406	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		406
407	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		407
408	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		408
409	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		409
410	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		410
411	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		411
412	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		412
413	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		413
414	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		414
415	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		415
415.1	201		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		415.1
416	201R	60 MIN	No	3' - 0"	7' - 0"	SC-FL	--		HM	A		416
418	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		418
419	403		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		419
AREA 5												
501	212S		No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B		501
502	212S		No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B		502
503	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		503
504	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		504
505	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		505
506	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		506
507	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		507
508	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	C		508
509	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		509
510	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		510
511	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		511
512	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		512
513	212S		No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B		513
514	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		514
515	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		515
516	201C		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		516
517A	728DRW	90 MIN.	No	4' - 0"	7' - 0"	HM-FL (PR)	--		HM	B1		517A
517C	E718MRW	90 MIN.	No	4' - 0"	7' - 0"	HM-NL (PR)	GTC	Yes	HM	B		517C

DOOR SCHEDULE HOLLOW METAL FRAMES

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	DOOR EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	FRAME SPECIAL NOTES	OPENING NUMBER
518	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		518
519	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		519
521	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		521
523	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		523
524	212S		No	3' - 0"	7' - 0"	SC-FL (PR)	--		HM	B		524
526	341J		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		526
527	503		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		527
528A	203SW		No	4' - 0"	7' - 0"	SC-NL	GTC		HM	C		528A
529A	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	C		529A
529B	223		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	A		529B
530A	203		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		530A
531	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		531
532	403S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		532
533A	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		533A
534	201C		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		534
535	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		535
AREA 7												
701	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		701
702	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		702
703	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		703
704	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		704
705A	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		705A
705B	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		705B
706	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		706
708A	E718MR	90 MIN.	No	3' - 0 3/8"	7' - 0"	HM-NL (PR)	GTC	Yes	HM	B		708A
708B	E718MRW	90 MIN.	No	3' - 11 3/4"	7' - 0"	HM-NL (PR)	GTC	Yes	HM	B		708B
709	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		709
710	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		710
711	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		711
712	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		712
715	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		715
716	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		716
717	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		717
718	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		718
719	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		719
720	201		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		720
721	203S		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		721
722	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		722
723	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		723
724	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		724
AREA 8												
800	728DRW	90 MIN.	No	4' - 0"	7' - 0"	HM-FL (PR)	--		HM	B1		800
802	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		802
803	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		803
804	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		804
805	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		805
806	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		806
807	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		807
809	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		809
812	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		812
813	203		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		813
814	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		814
815	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		815
816	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		816
817	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		817
818	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		818
819.1	201R	45 MIN.	No	3' - 0"	7' - 0"	SC-FL	--		HM	A		819.1
819.2	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		819.2
AREA 9												
902	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		902
903	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		903
904	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		904
905	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		905
906	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		906
907	203S		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		907
909	341		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		909
910	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		910
911	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		911
912	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		912
913	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		913
AREA 10												
1000	728DRW	90 MIN.	No	4' - 0"	7' - 0"	HM-FL (PR)	--		HM	B1		1000
1001	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1001
1001.1	201		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		1001.1
1002	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1002
1003	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1003
1004	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1004
1005	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1005
1006	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1006
1007	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		1007
1008	711		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	C		1008
1009	203		No	3' - 0"	7' - 0"	SC-NL	GTC		HM	C		1009
1010	201		No	3' - 0"	7' - 0"	SC-FL	--		HM	A		1010

DOOR SCHEDULE - ALUMINUM FRAMES

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	DOOR EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	FRAME SPECIAL NOTES	OPENING NUMBER
AREA1												
100A	CR714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-C	North	100A
100B	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-C	North	100B
100C	CR710ACM		No	3' - 0"	7' - 0"	AL-SF (PR)	GSEF		Yes	AL	SF-10		100C
100D	C710ACM		No	3' - 0"	7' - 0"	AL-SF (PR)	GSEF		Yes	AL	SF-10		100D
102C	C201A		No	3' - 0"	7' - 0"	AL-SF	GTC			AL	SF-02		102C
136	203AS		No	3' - 0"	7' - 0"	AL-SF	GTC			AL	SF-17		136
137	103A		No	3' - 0"	7' - 0"	AL-SF	GTC			AL	SF-16		137
AREA 2												
200A	710ACHM		No	3' - 0"	7' - 0"	AL-SF (PR)	GTC		Yes	AL	SF-05		200A
200B	710ACHM		No	3' - 0"	7' - 0"	AL-SF (PR)	GTC		Yes	AL	SF-05		200B
200D	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-F	West	200D
203A	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-H	South	203A
203B	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-H	South	203B
203C	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-F	East	203C
204A	551ACH		No	3' - 0"	7' - 2"	AL-SF	GTC		Yes	AL	SF-08		204A
204C	551ACH		No	3' - 0"	7' - 2"	AL-SF	GTC		Yes	AL	SF-08		204C
AREA 3												
300B	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-J	West	300B
324B	105AIS		Yes	3' - 0"	7' - 0"	AL-SF	IGU			AL	SF-DD	South	324B
AREA 4												
400A	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-J	North	400A
400B	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-EE	North	400B
AREA 5												
517B	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSE		Yes	AL	SF-L	North	517B
528B	205A		Yes	3' - 0"	7' - 0"	AL-SF	IGU			AL	SF-P	South	528B
529C	205A		Yes	3' - 0"	7' - 0"	AL-SF	IGU			AL	SF-P	South	529C
530B	205A		Yes	3' - 0"	7' - 0"	AL-SF	IGU			AL	SF-P	South	530B
533B	205A		Yes	3' - 0"	7' - 0"	AL-SF	IGU			AL	SF-P	South	533B
AREA 6												
600A	714AIMS		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGU		Yes	AL	SF-BB	West	600A
600B	714AIMS		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGU		Yes	AL	SF-BB	West	600B
602A	714AIMS		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGU		Yes	AL	SF-T	West	602A
602B	714AIMS		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGU		Yes	AL	SF-R	West	602B
602C	714AIMS		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGU		Yes	AL	SF-S	East	602C

DEFAULT DOORS

IF A DOOR ASSEMBLY APPEARS ON THE FLOOR PLANS BUT IS NOT IDENTIFIED BY A SCHEDULE NUMBER, THE DOOR SHALL BE INCLUDED IN THE BID AS LISTED BELOW. THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT TO DETERMINE WHAT THE ACTUAL DOOR AND FRAME TYPE AND HARDWARE REQUIREMENTS WILL BE. ADJUSTMENTS IN CONTRACT PRICE WILL BE BASED ON THE DIFFERENCE BETWEEN ACTUAL REQUIREMENTS AND THE DEFAULT DOOR VALUE.

THE DEFAULT EXTERIOR DOOR SHALL BE A TYPE "HM-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" (781" AT EXTERIOR MASONRY WALL) FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR EXTERIOR DOORS.

THE DEFAULT INTERIOR DOOR SHALL BE A TYPE "SC-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR INTERIOR DOORS.

TYPICAL NOTES

A. DOOR TYPES ARE INDICATED AS A MATERIAL-CONFIGURATION CODE. THE MATERIAL CODE DESIGNATES MATERIALS AND FINISHES AS SPECIFIED. REFER TO SPECIAL NOTES FOR NON-TYPICAL FINISHES. THE CONFIGURATION CODE REFERS TO TYPICAL OR SPECIAL CONFIGURATIONS AS DRAWN.

B. DOOR ASSEMBLIES ARE NUMBERED BY ASSEMBLY. MULTIPLE SETS OF DOORS MAY OCCUR IN THE SAME FRAME ASSEMBLY (REFER TO SCHEDULE AND PLAN FOR QUANTITY). DOORS MAY OCCUR IN PAIRS (REFER TO SCHEDULE AND PLAN FOR INCIDENCE).

C. FRAME CONFIGURATION IS DIAGRAMMATIC AND NOMINAL. DIMENSIONS SHALL BE ADJUSTED TO ACCOMMODATE DOOR SIZES AS SCHEDULED. WITHIN ANY HOLLOW METAL ASSEMBLY, THE WIDTH OF SIDELITES SHALL BE EQUAL AND SHALL NOT EXCEED 3'-0" U.N.O.

D. ALTERNATE FINISHES CAN SOMETIMES HAVE AN IMPACT ON DETAILING (E.G. HALF OR OFFSET SADDLES EMPLOYED IN LIEU OF STANDARD SADDLES WHEN ADJACENT TO THICKER FLOOR FINISHES SUCH AS TERRAZZO OR QUARRY TILE). COORDINATE DETAILS WITH FINAL FINISH SELECTIONS.

E. GLAZED FRAMES ASSOCIATED WITH 20-MINUTE, 45-MINUTE, AND/OR 60-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 1-HOUR. GLAZED FRAMES ASSOCIATED WITH 90-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 2-HOUR. GLAZING MUST MEET CODE REQUIREMENTS, INCLUDING S

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1 FINISH PLAN - AREA 1 - LEVEL 1
1/8" = 1'-0"

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- SIM 1 / A101 — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 ← ROOM NAME / ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

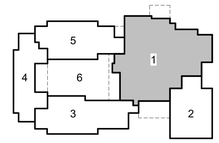
XY (MATERIAL TYPE) ## (FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210)

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM
AP - ACOUSTICAL PANELS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
CCPS - CERAMIC CLADDING PANEL SYSTEM
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDW - CUSTOM DIGITAL WALLCOVERINGS
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
EBWS - EPOXY BASED WALL SYSTEM
EPNT - EPOXY PAINT
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MS - METAL SOFFIT
MWP - METAL INTERIOR WALL PANELLING
NB - NO BASE
NS - NATURAL STONE
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS - RUBBER FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SSM - SOLID SURFACE MATERIAL
STF - THEATRICAL PLATFORM CURTAIN
SVT - SOLID VINYL TILE
TB - TACK BOARD
TC - TILE, CERAMIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - TILE, VINYL COMPOSITION
VSF - VINYL SHEET FLOORING
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

PLAN NORTH / TRUE NORTH



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date	
1	11.03.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
MICHAEL ANDREW SIMMONS
25557
STATE OF TEXAS
11/03/2026

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FINISH PLAN - AREA 1 - LEVEL 1

Job No. 01949-04-01	Sheet No. A4.01
Drawn By: KM/MJ	
Date: 10/08/2026	

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FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

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- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

X Y — MATERIAL TYPE; # # — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

AL - ALUMINUM

AP - ACOUSTICAL PANELS

BCT - BASE, COVE FLOOR-TO-WALL TRANSITION

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

MWP - METAL INTERIOR WALL PANELLING

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS AND RISERS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

STF - THEATRICAL PLATFORM CURTAIN

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

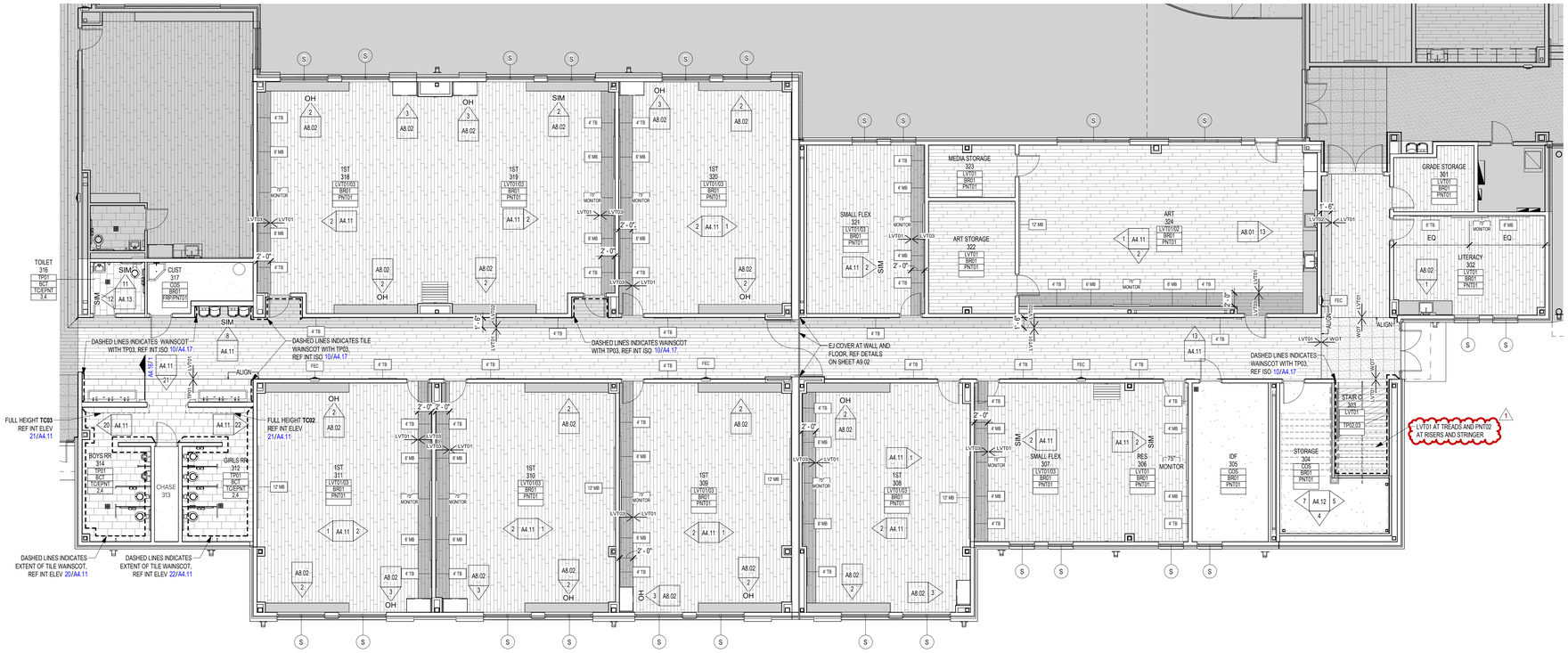
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

WOM - WALK-OFF MAT

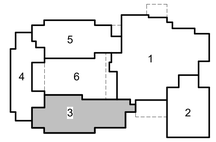
WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)



1 FINISH PLAN - AREA 3 - LEVEL 1
1/8" = 1'-0"

PLAN N / TRUE N



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT ANDREW MORGAN 25557 STATE OF TEXAS
11/03/2026

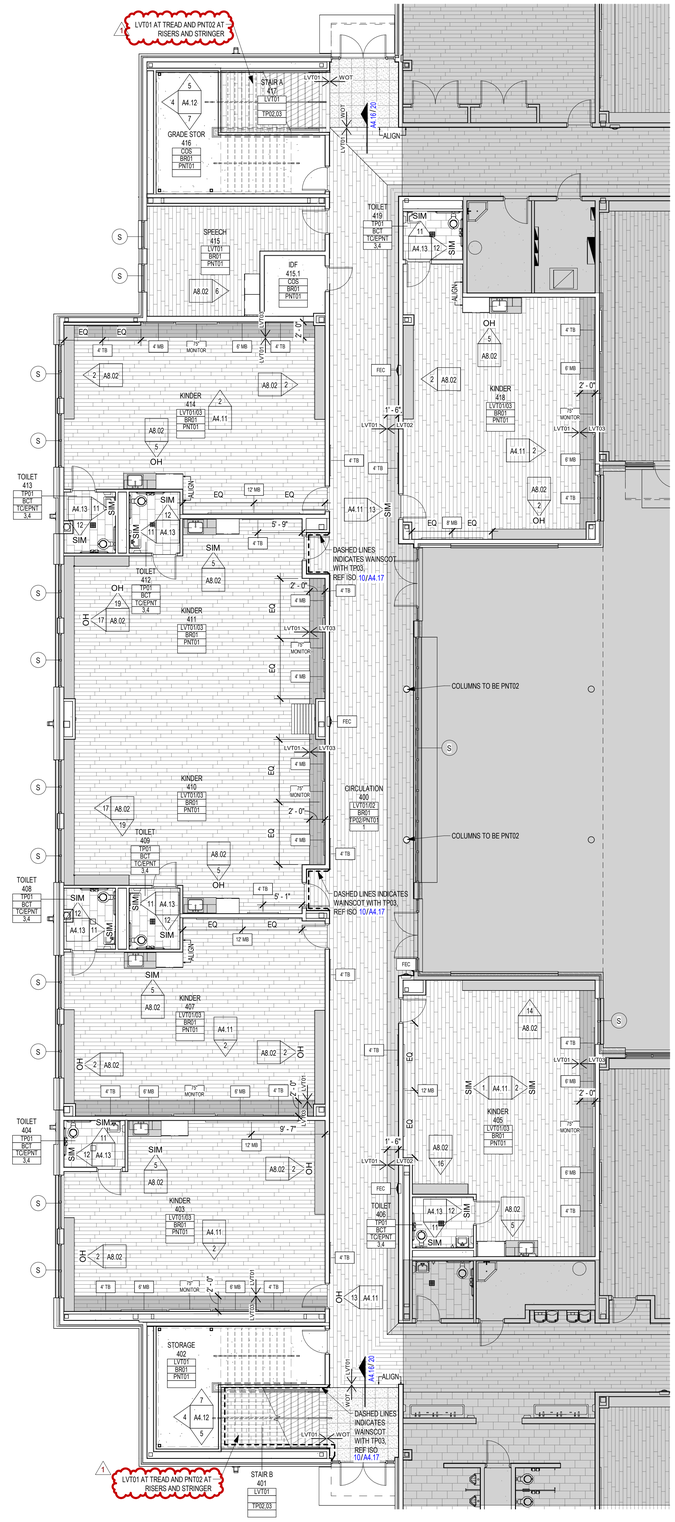
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FINISH PLAN - AREA 3 - LEVEL 1

Job No. 01949-04-01	Sheet No. A4.03
Drawn By: KM/MJ	
Date: 10/08/2026	

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1 FINISH PLAN - AREA 4 - LEVEL 1
1/8" = 1'-0"

A1.1 1 ELEVATION REFERENCE

1 A1.1 CALLOUT REFERENCE

SIM 1 A101 WALL SECTION REFERENCE

B
- B - HORIZONTAL BLINDS
- S - WINDOW SHADES
- SB - WINDOW SHADES - BLACKOUT
- SM - MOTORIZED SHADES
- SMB - MOTORIZED SHADES - BLACKOUT

FLOOR INSTALLATION DIRECTION

FLOOR TRANSITION

FINISH WALL FINISH TAG

8' MB EQUIPMENT TAG

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY — MATERIAL TYPE; ## — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

AL - ALUMINUM

AP - ACOUSTICAL PANELS

BCT - BASE, COVE FLOOR-TO-WALL TRANSITION

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

MWP - METAL INTERIOR WALL PANELLING

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS AND RISERS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

STF - THEATRICAL PLATFORM CURTAIN

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

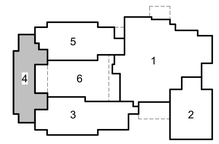
WOM - WALK-OFF MAT

WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

PLAN N / TRUE N



KEY PLAN - 1ST FLOOR
N.T.S.

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Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537



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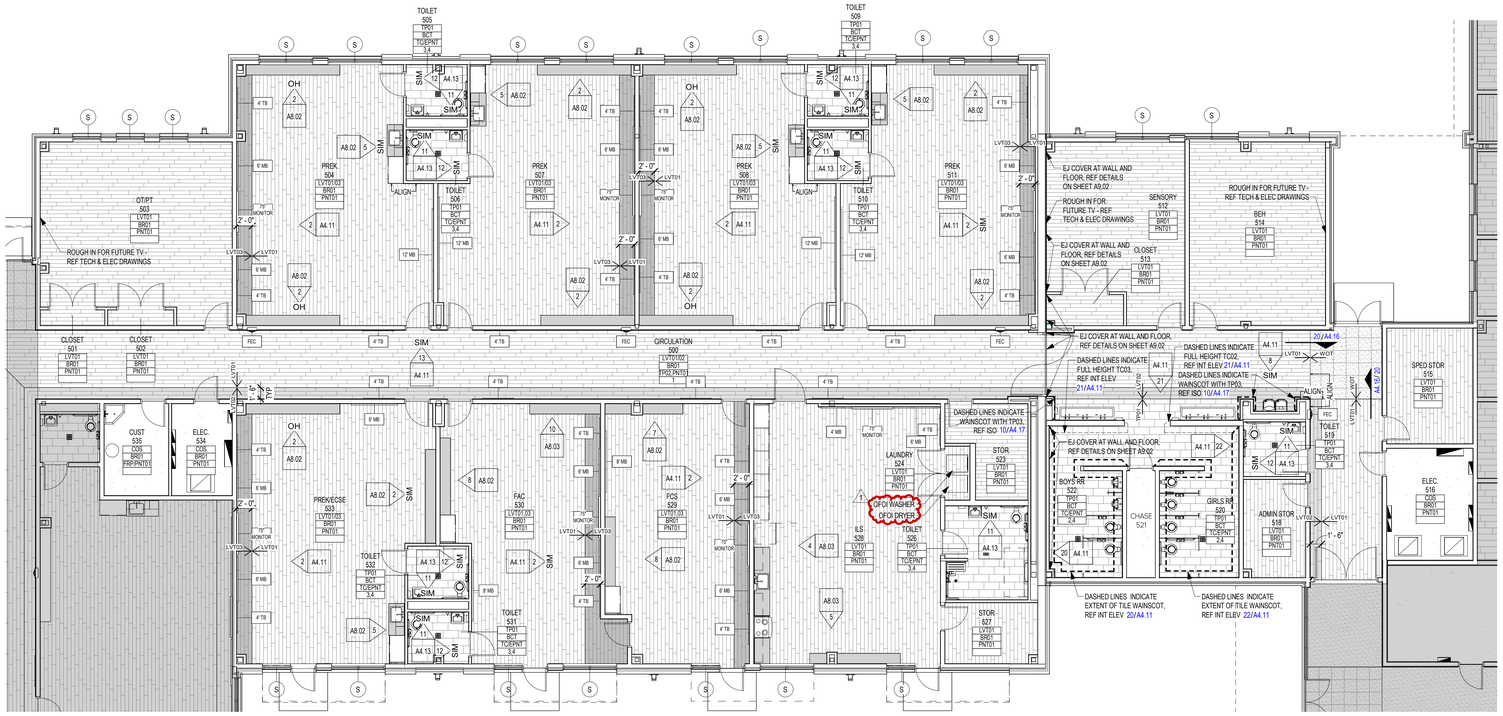
FINISH PLAN - AREA 4 - LEVEL 1

Job No. 01949-04-01	Sheet No. A4.04
Drawn By: KM/MU	
Date: 10/08/2026	

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1 FINISH PLAN - AREA 5 - LEVEL 1
1/8" = 1'-0"

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- SIM / 1 / A101 — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY — MATERIAL TYPE; ## — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

AL - ALUMINUM

AP - ACOUSTICAL PANELS

BCT - BASE, COVE FLOOR-TO-WALL TRANSITION

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

MWP - METAL INTERIOR WALL PANELLING

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS AND RISERS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

STF - THEATRICAL PLATFORM CURTAIN

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

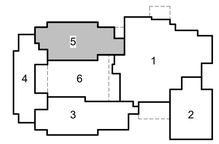
WOM - WALK-OFF MAT

WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

PLAN N / N TRUE



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — ANDREW LAWRENCE HUCKABEE — 25557 — STATE OF TEXAS
11/03/2026

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FINISH PLAN - AREA 5 - LEVEL 1

Job No. 01949-04-01	Sheet No. A4.05
Drawn By: KM/MJ	
Date: 10/08/2026	

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1 FINISH PLAN - AREA 8 - LEVEL 2
1/8" = 1'-0"

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- ELEVATION REFERENCE
- CALLOUT REFERENCE
- WALL SECTION REFERENCE
- B - HORIZONTAL BLINDS
  S - WINDOW SHADES
  SB - WINDOW SHADES - BLACKOUT
  SM - MOTORIZED SHADES
  SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- WALL FINISH TAG
- EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY — MATERIAL TYPE; ## — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

AL - ALUMINUM

AP - ACOUSTICAL PANELS

BCT - BASE, COVE FLOOR-TO-WALL TRANSITION

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

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CSM - CONCRETE STONE MASONRY

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EBWS - EPOXY BASED WALL SYSTEM

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FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

MB - MARKER BOARD

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PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT athletic FLUID FLOORING

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TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

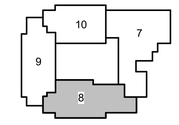
WMS - MASONITE WOOD FLOORING

WOM - WALK-OFF MAT

WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

PLAN N / TRUE N



KEY PLAN - 2ND FLOOR
N.T.S.

Revision /	Date
1	11.03.26 Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
RUSSELL ANDREW SIMPSON
25557
STATE OF TEXAS
11/03/2026

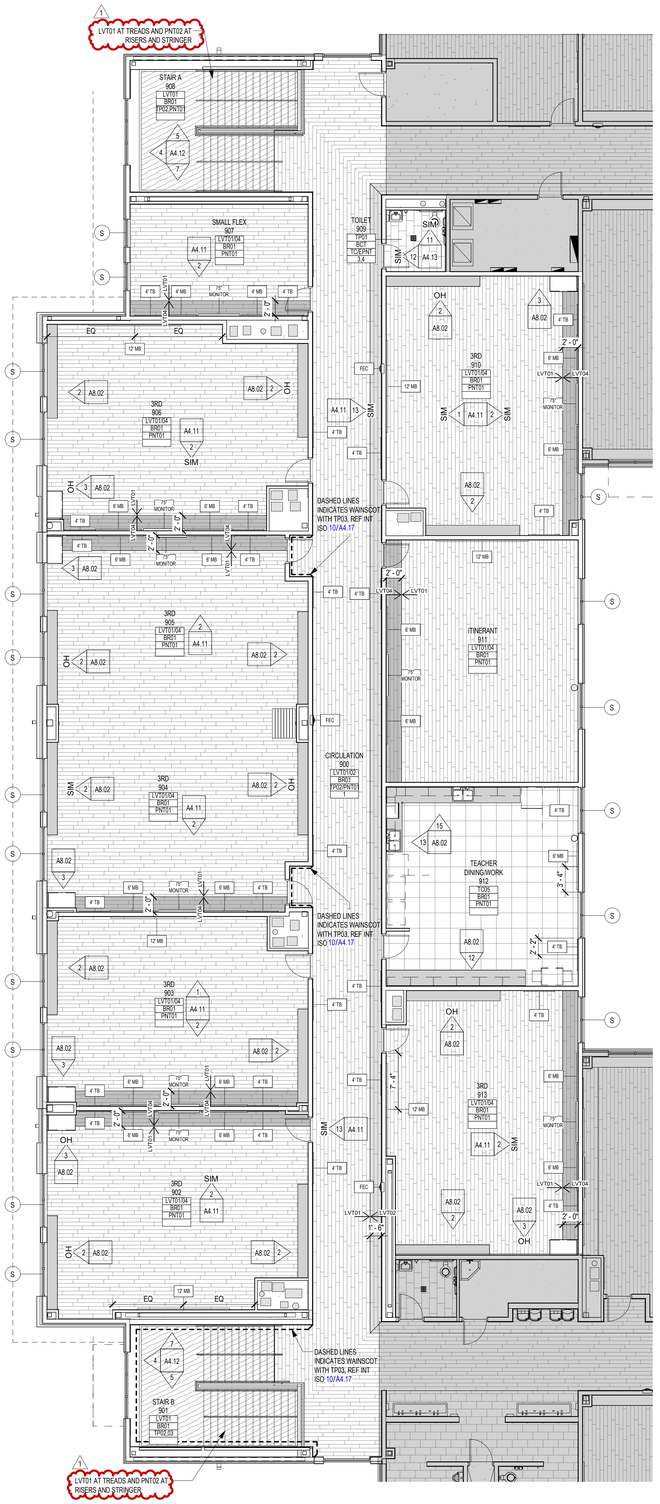
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FINISH PLAN - AREA 8 - LEVEL 2

Job No. 01949-04-01	Sheet No. A4.08
Drawn By: KM/MJ	
Date: 10/08/2026	

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1 FINISH PLAN - AREA 9 - LEVEL 2
1/8" = 1'-0"

ELEVATION REFERENCE
CALLOUT REFERENCE
WALL SECTION REFERENCE
B - HORIZONTAL BLINDS
S - WINDOW SHADES
SB - WINDOW SHADES - BLACKOUT
SM - MOTORIZED SHADES
SMB - MOTORIZED SHADES - BLACKOUT
FLOOR INSTALLATION DIRECTION
FLOOR TRANSITION
WALL FINISH TAG
EQUIPMENT TAG

FINISH PLAN LEGEND
APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. PROVIDE TILE WAINSCOT TO 4'-6" A.F.F. PAINT ABOVE.
2. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERN LAYOUT
3. WET WALL TO RECEIVE FULL HEIGHT TILE. PROVIDE WAINSCOT HEIGHT WALL TILE ON REMAINING 3 WALLS. REF TYP SINGLE USER RR INTERIOR ELEVATION FOR TILE LAYOUT
4. BOTTOM ROW OF TILE TO BE CUT TO ALIGN TO CORRIDOR WAINSCOT TILE

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
3. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
4. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 — ROOM NAME / ROOM NUMBER
TYP FLOOR FINISH — LVT01
WALL BASE FINISH — BR01
TYP WALL FINISH — PNT01
REMARKS — 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

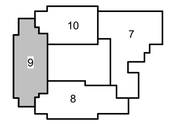
XY — MATERIAL TYPE; ## — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM
AP - ACOUSTICAL PANELS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
CCPS - CERAMIC CLADDING PANEL SYSTEM
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDW - CUSTOM DIGITAL WALLCOVERINGS
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
EBWS - EPOXY BASED WALL SYSTEM
EPNT - EPOXY PAINT
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MS - METAL SOFFIT
MWP - METAL INTERIOR WALL PANELLING
NB - NO BASE
NS - NATURAL STONE
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS - RUBBER FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SSM - SOLID SURFACE MATERIAL
STF - THEATRICAL PLATFORM CURTAIN
SVT - SOLID VINYL TILE
TB - TACK BOARD
TC - TILE, CERAMIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - TILE, VINYL COMPOSITION
VSF - VINYL SHEET FLOORING
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

PLAN N / TRUE N



KEY PLAN - 2ND FLOOR
N.T.S.

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Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — ANDREW JOHNSON — 25557 — STATE OF TEXAS
11/03/2026

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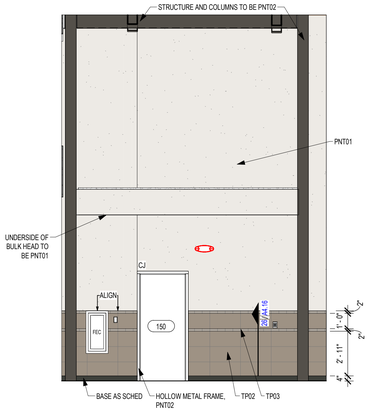
FINISH PLAN - AREA 9 - LEVEL 2

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Drawn By: KM/MJ	
Date: 10/08/2026	

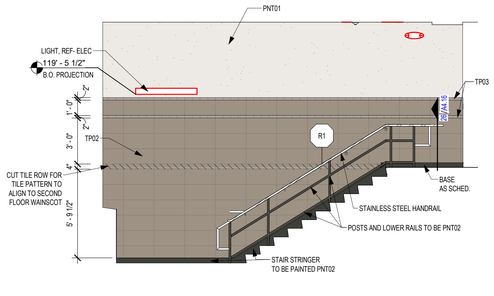
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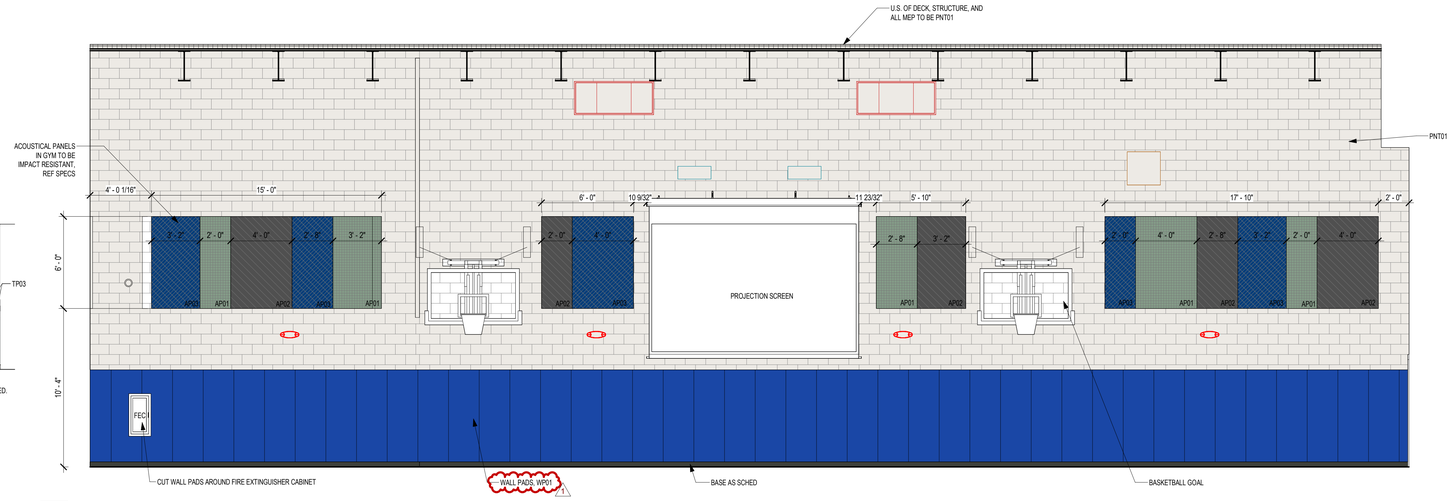
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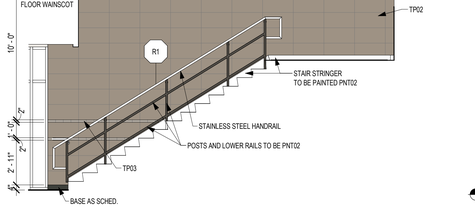
8 EV-INT - VESTIBULE
1/4" = 1'-0" BACK REF: A4.01



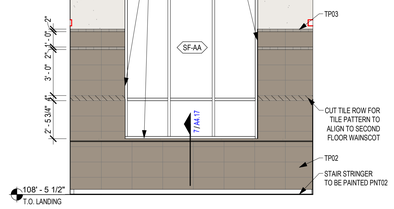
7 EV-INT - TYP STAIRWELL - LEVEL 2
1/4" = 1'-0" BACK REF: A4.03



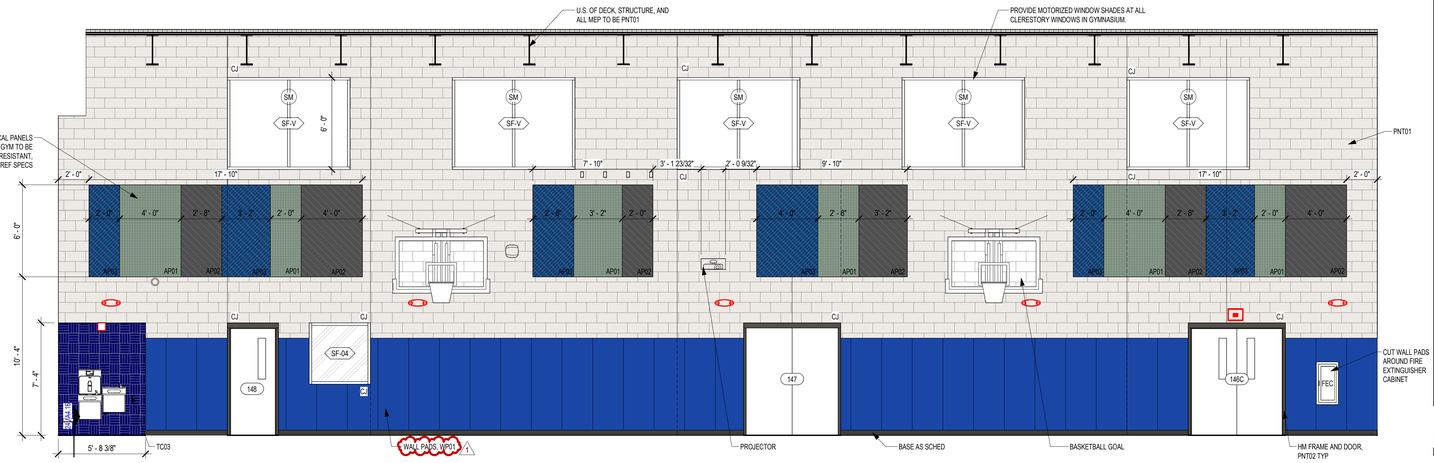
6 EV-INT - SOUTH GYM
1/4" = 1'-0" BACK REF: A4.01



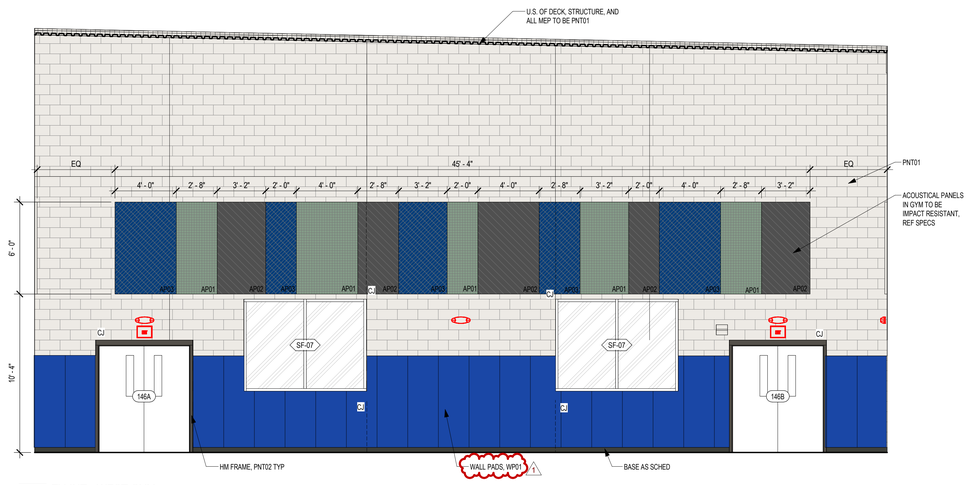
5 EV-INT - TYP STAIRWELL - LEVEL 1
1/4" = 1'-0" BACK REF: A4.03



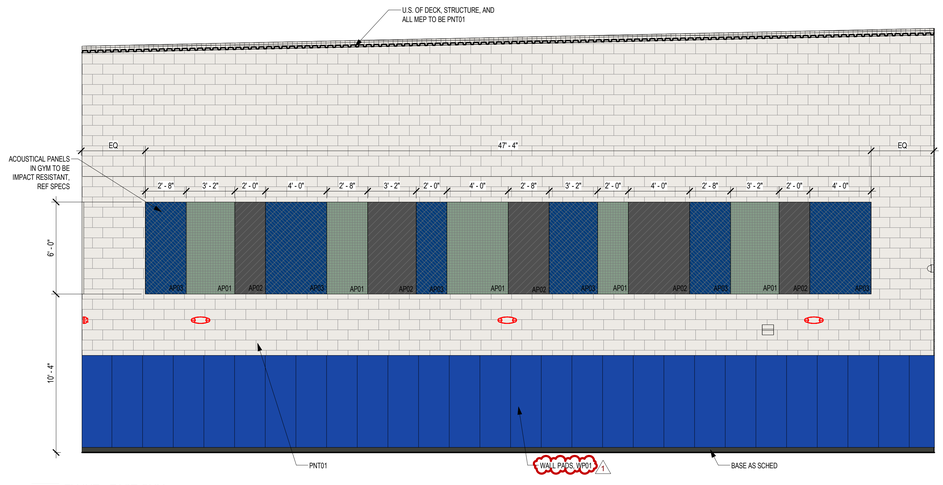
4 EV-INT - TYP STAIRWELL LANDING
1/4" = 1'-0" BACK REF: A4.03



3 EV-INT - NORTH GYM
1/4" = 1'-0" BACK REF: A4.01



2 EV-INT - WEST GYM
1/4" = 1'-0" BACK REF: A4.01



1 EV-INT - EAST GYM
1/4" = 1'-0" BACK REF: A4.01

Addendum 1

Date 11.03.26

Revision / 1

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

Project:

REGISTERED ARCHITECT
MICHAEL ANDREW SLAWSON
25557
STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

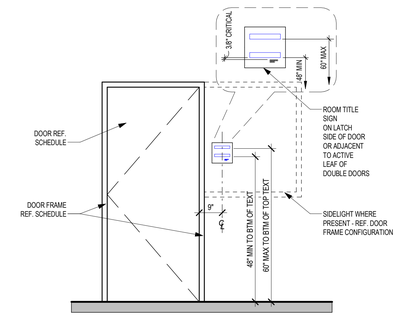
INTERIOR ELEVATIONS

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Drawn By: KM/MJ
Date: 10/08/2026
Sheet No. A4.12

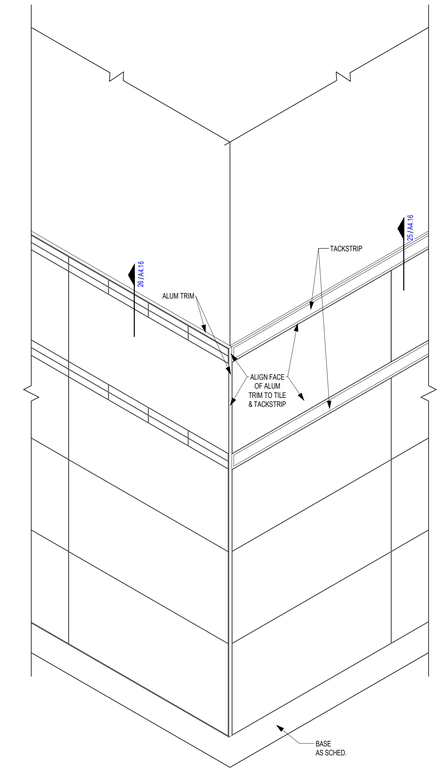
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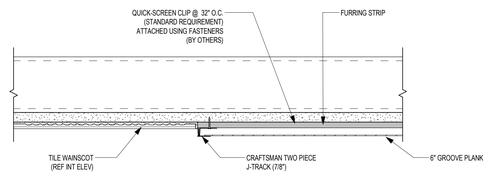
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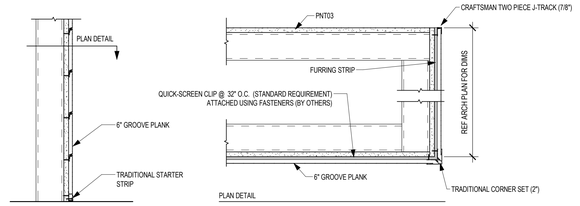
11 TYP SIGNAGE LOCATION
1/2" = 1'-0"



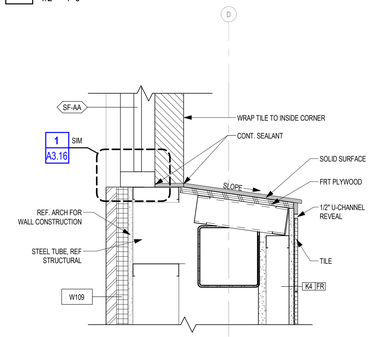
10 ISOMETRIC VIEW - WAINSCOT MOSAIC TO TACKBOARD CORNER CONNECTION
1 1/2" = 1'-0"



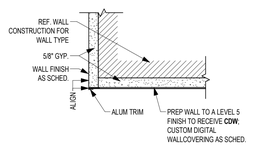
9 PLATFORM SURROUND PLAN DETAIL - WOOD TO TILE
3" = 1'-0"



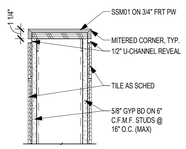
8 PLATFORM SURROUND (WOOD)
1 1/2" = 1'-0"



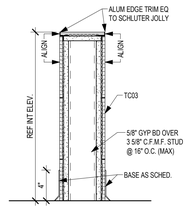
7 STAIR WINDOW TILE DETAIL
1 1/2" = 1'-0"



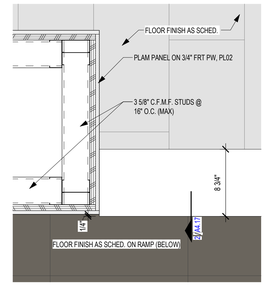
6 CDW DTL - PLAN
3" = 1'-0"



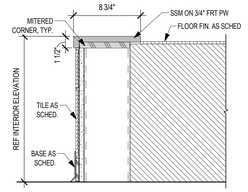
5 LEARNING STAIR GUARD RAIL DETAIL
1 1/2" = 1'-0"



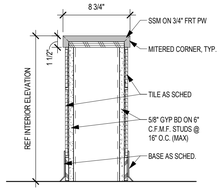
4 PONY WALL WITH TILE
1 1/2" = 1'-0"



3 INTERIOR PLAN DETAIL
1 1/2" = 1'-0"



2 PONY WALL WITH SOLID SURFACE CAP
1 1/2" = 1'-0"



1 PONY WALL WITH SOLID SURFACE CAP
1 1/2" = 1'-0"

Revision / Date
1 11.03.26 Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
ROBERT ANDREW HARRISON
25557
STATE OF TEXAS
11/03/2026

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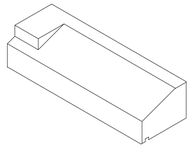
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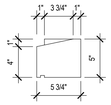
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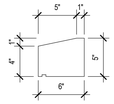
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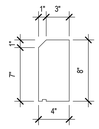




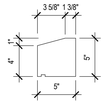
11 SF STONE SILL @ ENTRY CORNER
1 1/2" = 1'-0"



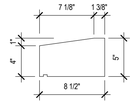
TYP. EXTERIOR SMOOTH STONE SILL



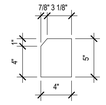
TYP. EXTERIOR SMOOTH STONE HEAD



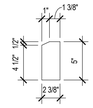
EXTERIOR SMOOTH STONE @ W107 TO W109 TRANSITION



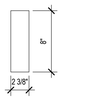
EXTERIOR SMOOTH STONE @ W107.1 TO W109 TRANSITION



EXTERIOR SMOOTH STONE HEAD @ LIBRARY PATIO

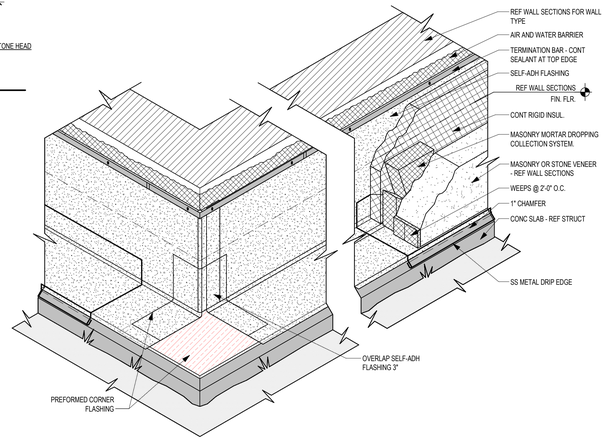


TYP. INTERIOR SMOOTH STONE SILL @ LIBRARY

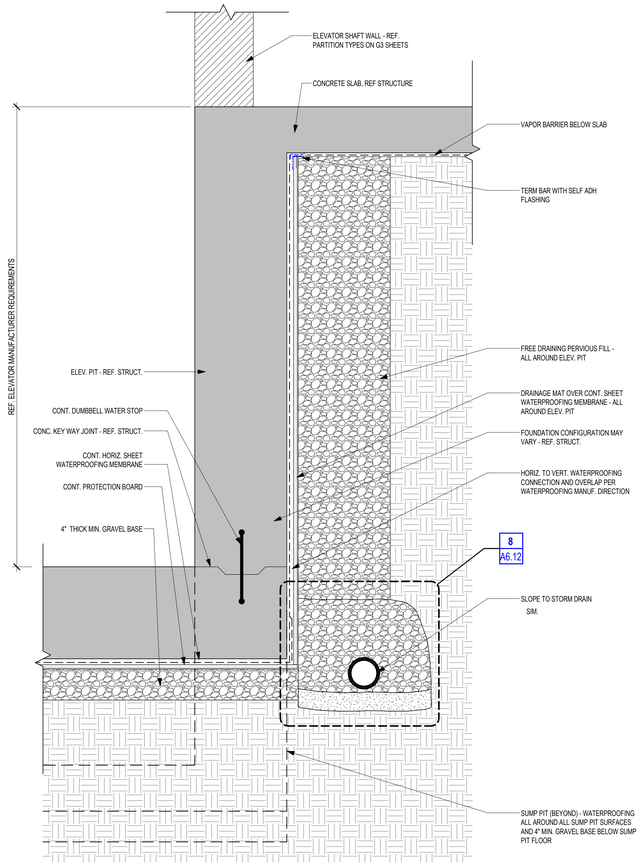


TYP. INTERIOR SMOOTH STONE HEAD @ LIBRARY

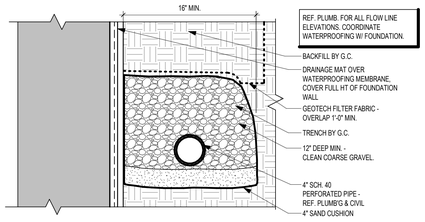
10 TYP. NATURAL STONE PROFILES
1 1/2" = 1'-0"



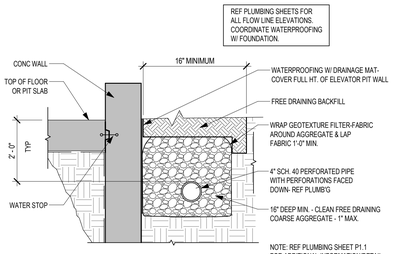
9 TYPICAL BASE FLASHING @ EXTERIOR WALL
1 1/2" = 1'-0"



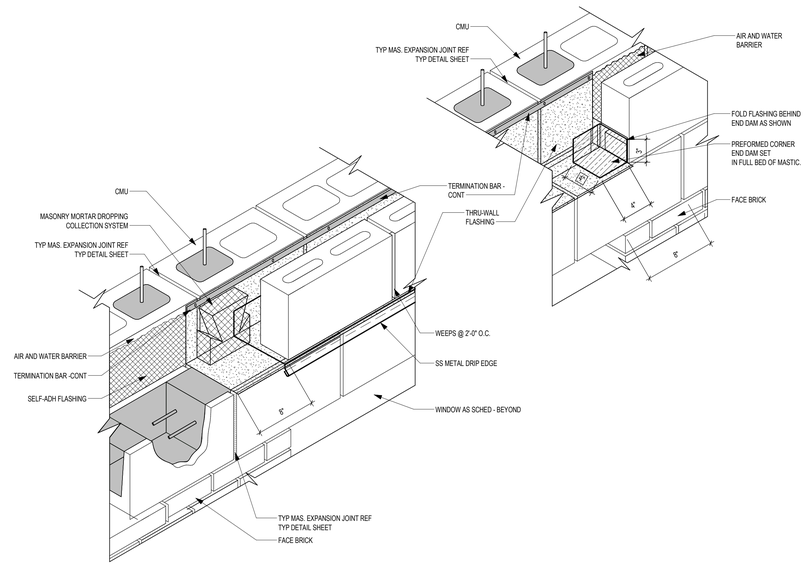
7 ELEVATOR PIT DETAIL
1 1/2" = 1'-0"



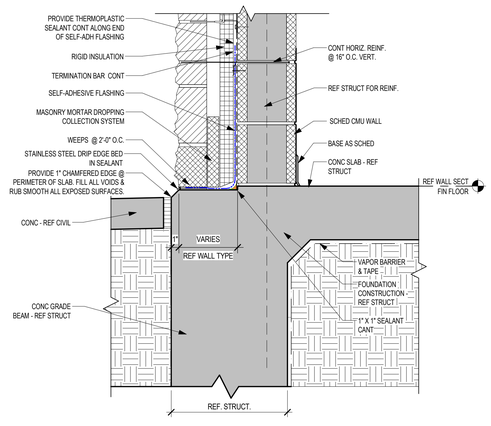
8 SUB SOIL DRAIN DETAIL
1 1/2" = 1'-0"



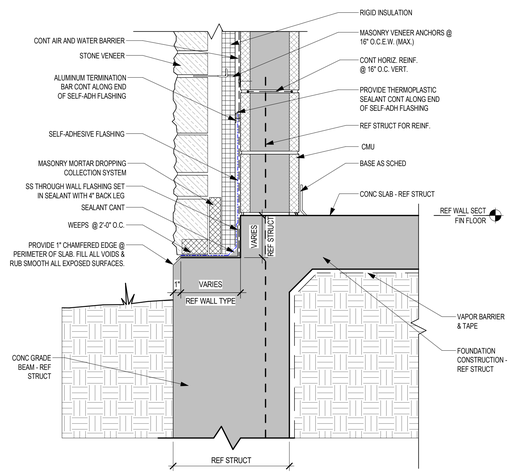
6 SUB SOIL DRAIN DETAIL AT BELOW-GRADE FLOOR
1/2" = 1'-0"



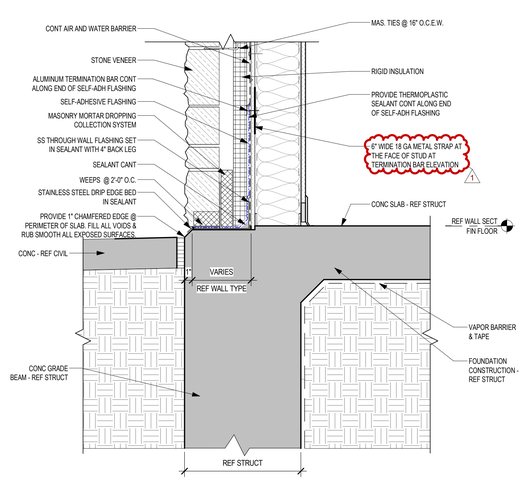
5 TYPICAL LINTEL FLASHING @ EXTERIOR WALL - CMU / STONE
1 1/2" = 1'-0"



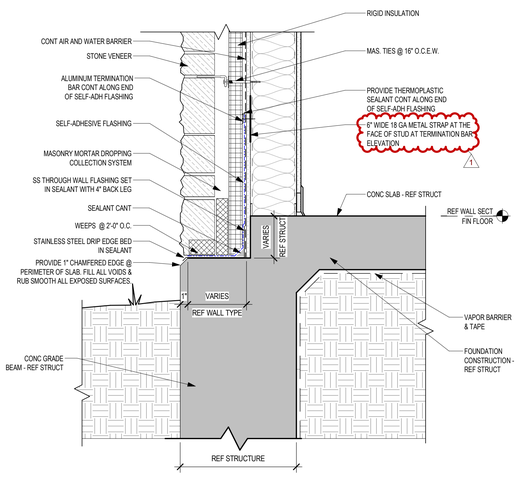
4 FOUNDATION DETAIL@ STONE VENEER LEDGE & CMU
1 1/2" = 1'-0"



3 FOUNDATION DETAIL @ VENEER LEDGE & CMU WALL
1 1/2" = 1'-0"



2 FOUNDATION DETAIL @ VENEER LEDGE & METAL STUD WALL
1 1/2" = 1'-0"



1 FOUNDATION DETAIL @ VENEER LEDGE & METAL STUD WALL
1 1/2" = 1'-0"

Revision / 1 — Date 11.03.26 — Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT — JAMES ANDREW HUCKABEE — 25557 — STATE OF TEXAS
11/03/2026

Huckabee
www.huckabee-inc.com
800.687.1229

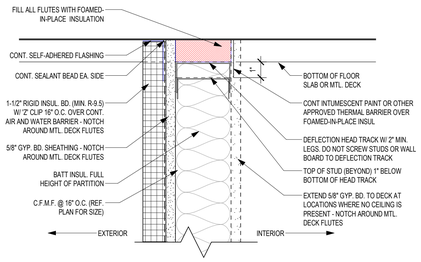
WALL SECTION DETAILS

Job No.	Sheet No.
01949-04-01	A6.12
Drawn By: HC	
Date: 10/08/2026	

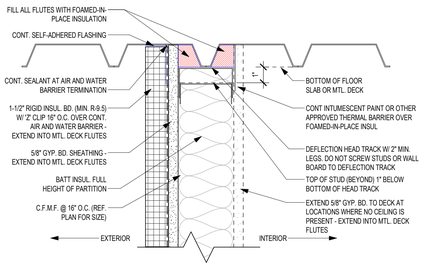
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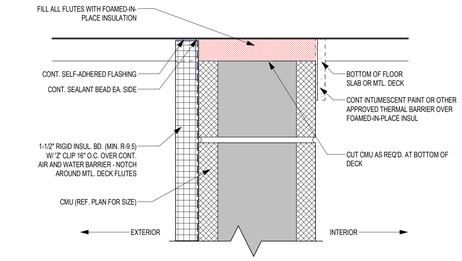
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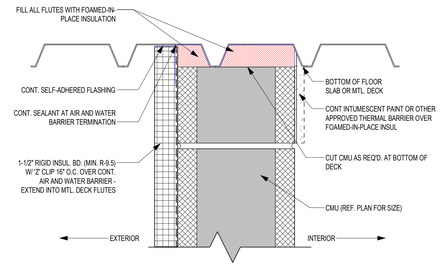
12 EXTERIOR MTL. STUD. CONNECTION OF WALL PERPENDICULAR TO DECK
3" = 1'-0"



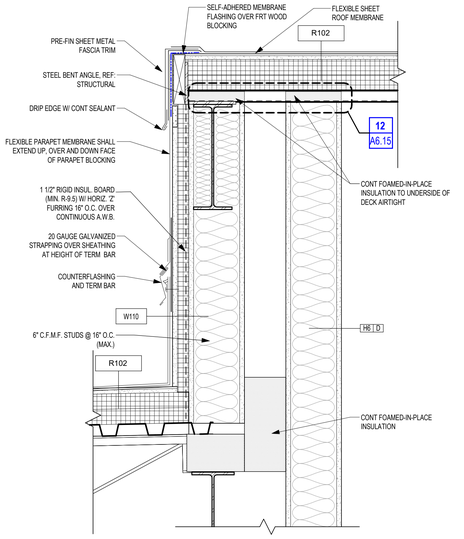
11 EXTERIOR MTL. STUD. CONNECTION OF WALL PARALLEL TO DECK
3" = 1'-0"



10 EXTERIOR MTL. STUD. CONNECTION OF WALL PERPENDICULAR TO DECK
3" = 1'-0"



9 EXTERIOR MTL. STUD. CONNECTION OF WALL PARALLEL TO DECK
3" = 1'-0"

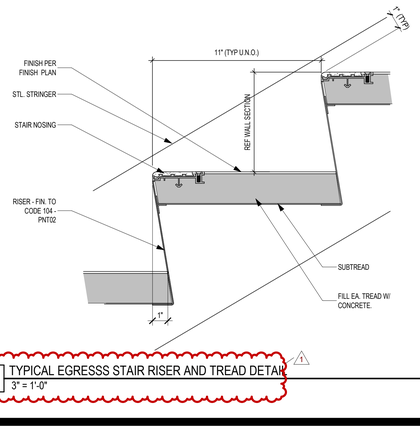


8 HD - AREA 1 - W110/R102 H6/R102 - LIBRARY HIGH ROOF
1 1/2" = 1'-0" BACK REF: A6.06

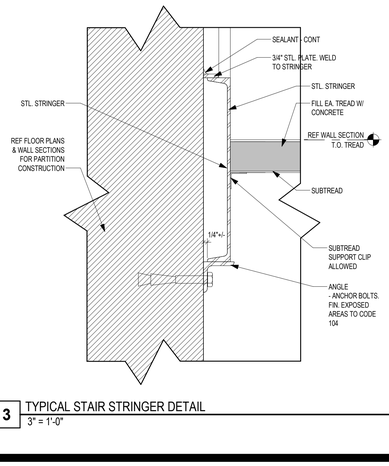
7 WALKWAY EDGE DTL - STL TUBE
3" = 1'-0"

6 WALKWAY EDGE DTL - RATED
3" = 1'-0"

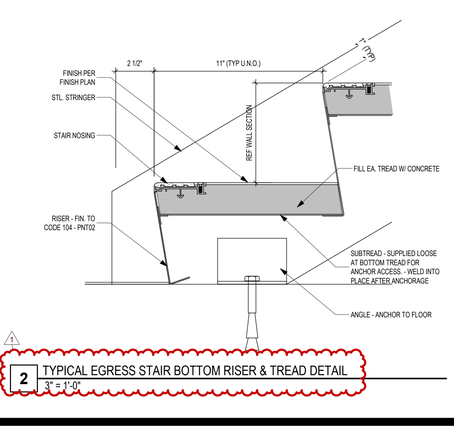
5 WALKWAY EDGE DTL - STL TUBE
3" = 1'-0"



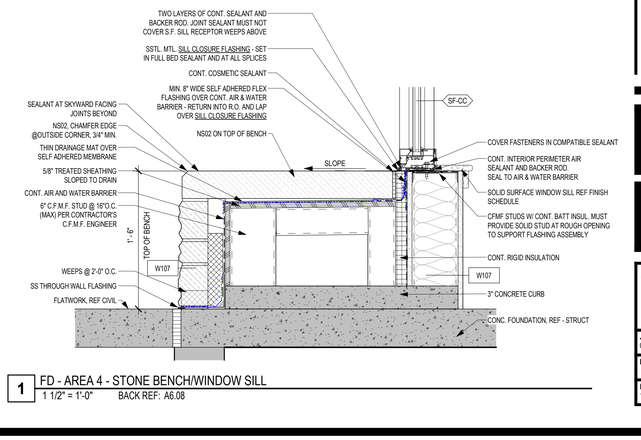
4 TYPICAL EGRESSS STAIR RISER AND TREAD DETAIL
3" = 1'-0"



3 TYPICAL STAIR STRINGER DETAIL
3" = 1'-0"



2 TYPICAL EGRESS STAIR BOTTOM RISER & TREAD DETAIL
3" = 1'-0"



1 FD - AREA 4 - STONE BENCH/WINDOW SILL
1 1/2" = 1'-0" BACK REF: A6.08

Revision / Addendum 1
Date 11.03.26

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT RUSSELL ANDREW SIMPSON 25557 STATE OF TEXAS
11/03/2026

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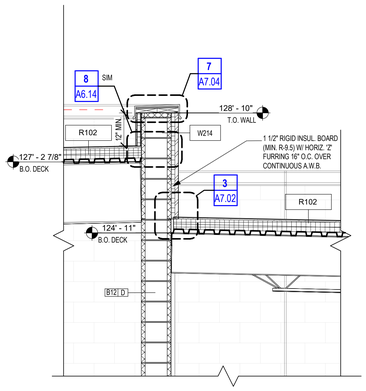
WALL SECTION DETAILS

Job No. 01949-04-01
Drawn By:
Date: 10/08/2026
Sheet No. A6.15

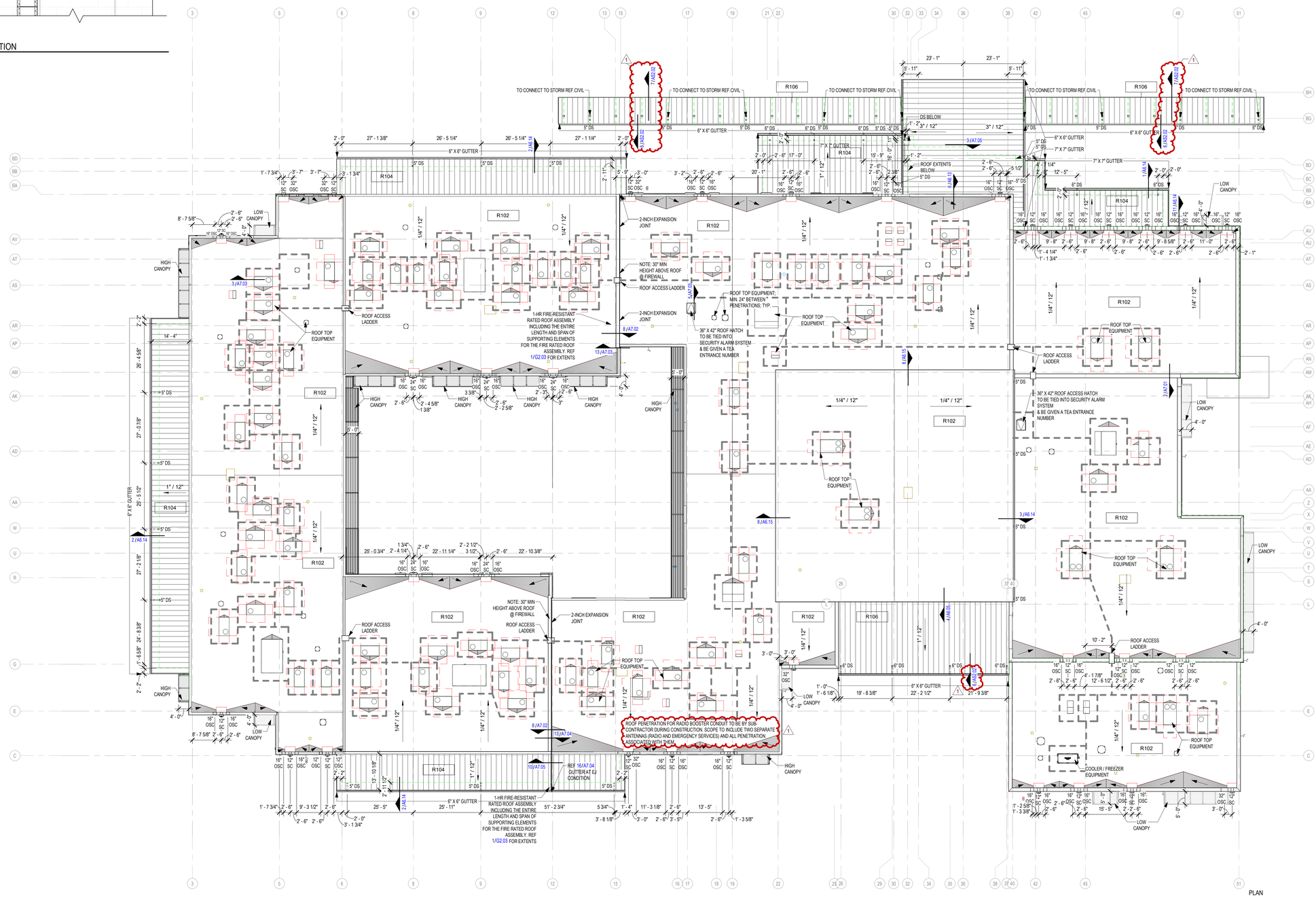
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2 WALL SECTION
1/2" = 1'-0"



1 ROOF PLAN
1/16" = 1'-0"

ROOF TYPE TAGS

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 — ROOF ASSEMBLY IN SECTION VIEW

R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, INSUL., MTL. DECK
R104 - STANDING SEAM, 3/4" PW SHEATHING, INSUL., MTL. DECK
R105 - STANDING SEAM, 3/4" PW SHEATHING, INSUL., MTL. DECK
R106 - STANDING SEAM, 3/4" PW SHEATHING, MTL. DECK

ROOF TOP WALKING PAD

ROOF TYPE LEGEND

TYPICAL ROOF NOTES

1. PROVIDE AND INSTALL **FLEXIBLE SHEET** ROOFING SYSTEM AND **STANDING SEAM METAL** ROOFING, WITH RIGID INSULATION AS SPECIFIED. REFER TO SPECIFICATIONS FOR ATTACHMENT REQUIREMENTS FOR ROOF INSULATION BOARD. REFER TO SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR DESCRIPTION OF UNDERLYING STEEL DECK.
2. PROVIDE TAPERED INSULATION AS SHOWN ON THE DRAWINGS. TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE 1/2" PER FOOT MIN SLOPE IN ANY ROOF PLANE & 1/4" PER FOOT MIN SLOPE DOWN VALLEYS TOWARD ROOF DRAINS.
3. EXPANSION JOINT COVERS SHALL BE AS SHOWN ON TYPICAL ROOF DETAILS. EXPANSION JOINT COVERS SHALL BE INSTALLED WHERE INDICATED ON PLANS AND IN FULL ACCORDANCE WITH CONVENTIONAL ROOFING AND SHEET METAL PRACTICES. ALL EXPANSION JOINT COVERS AND END CLOSURES AT **FLEXIBLE SHEET** ROOF SHALL BE 24 GA. G.I. (REFER TO EXPANSION JOINT DETAILS AND ROOFING PLAN FOR LOCATION).
4. ROOFING CONTRACTOR SHALL PROVIDE & INSTALL ALL FLASHINGS, COUNTERFLASHINGS, EXPANSION JOINT COVERS, & GUTTERS. ROOFING CONTRACTOR SHALL INSTALL ROOF DRAINS AND FLASHINGS & COUNTER FLASHING CALLED FOR ON ALL MECHANICAL EQUIPMENT. ALL ROOF FLASHINGS AND COUNTERFLASHINGS SHALL BE MIN. 24 GA. G.I. WHEN CONCEALED FROM VIEW AND MIN. 24 GA. PRE-FINISHED GALV. METAL WHEN EXPOSED TO VIEW. SCUPPERS SLEEVES SHALL BE MEMBRANE COATED. SCUPPER FACE PLATES SHALL BE PRE-FINISHED GALV. METAL.
5. SEE MECHANICAL AND ELECTRICAL SHEETS FOR VENTS, GAS LINES, A/C UNITS, EXHAUST FANS, ETC.
6. REFER TO STRUCTURAL DRAWINGS FOR ROOF MOUNTING FRAME SUPPORT DETAILS.
7. GENERAL CONTRACTOR SHALL COORDINATE ROOFING, PLUMBING, AND MECHANICAL CONTRACTOR ON ALL WORK.
8. COUNTERFLASHINGS SHALL BE MIN. 24 GA. G.I. WHERE **FLEXIBLE SHEET** ROOF SLOPES AT WALL LINE. UNIFORMLY STEP FLASHING AS DIRECTED BY ARCHITECT AND LAP JOINTS 3" MINIMUM IN A WATERTIGHT CONDITION.
9. ALL WOOD MATERIALS INCLUDED IN THE ROOF OR PARAPET ASSEMBLY, INCLUDING, BUT NOT LIMITED TO, CURBS, BLOCKING, AND NAILERS SHALL BE FIRE-RETARDANT-TREATED AS SPECIFIED.
10. WOOD NAILER FASTENING: FASTENER PER FACTORY MUTUAL SYSTEM, LOSS PREVENTION DATA 1-49.
11. WOOD BLOCKING TO METAL DECK: ATTACH NAILER TO THE METAL DECK WITH TWO ROWS OF NO. 10 STAINLESS STEEL METAL SCREWS AT 24" O.C. PROVIDE A STAINLESS STEEL WASHER (5/8" O.D.) AT EACH SCREW. TOP NAILER PLATE SHALL BE FASTENED TO BOTTOM NAILER PLATE WITH NAILS LONG ENOUGH TO PENETRATE 1 1/4" INTO BOTTOM NAILER AND SPACED 24" STAGGERED IN TWO ROWS. SPACING SHALL NOT EXCEED 12" FOR A MINIMUM OF 8' - 0" EACH WAY FROM AN OUTSIDE CORNER. WITHDRAWAL RESISTANCE SHALL BE 100 LBS. PER NAIL MINIMUM.
12. ALL CURBS (FOR MECHANICAL EQUIPMENT, EXPANSION JOINTS, ETC.) SHALL PROVIDE A MINIMUM OF 12" FLASHING HEIGHT ABOVE FINISH ROOF LEVEL AT ALL CONDITIONS, INCLUDING ABOVE CRICKETS.
13. ALL WORK SHALL BE COMPLETED SO AS TO PRODUCE A 100 PERCENT WATERTIGHT CONDITION FOR THE LIFE OF THE ROOF WARRANTY.
14. CONTRACTOR SHALL COORDINATE TO PROVIDE A MINIMUM 2' - 0" CLEARANCE AROUND ALL PENETRATIONS THROUGH THE ROOF AND WALLS, EDGES, AND VALLEYS LEADING TO DRAINAGE POINTS. IF CONFLICT WITH THIS REQUIREMENT ARISES, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING A/E.

Revision /	Date	
1	11.03.26	Addendum 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT
THE BEHRENS AGENCY
ANDREW WILSON
25557
STATE OF TEXAS
11/03/2026

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ROOF PLAN

Job No.	Sheet No.
015949-04-01	A7.01
Drawn By: Author	
Date: 10/08/2026	

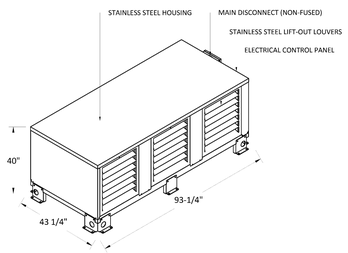
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MODEL NO. ROAM01011L01013T3A OUTDOOR AIR COOLED REFRIGERATION SYSTEM
ITEM NO. 103



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH
- DOOR SWITCH (QTY.2) - SHIPPED LOOSE
- 5 POINT DATA SWITCH (FOR CONNECTION TO KE2 SMART ACCESS) (QTY.1) - SHIPPED LOOSE
- EM PLUS W/ BACNET (FOR CONNECTION TO KE2 SMART ACCESS) (QTY.1) - SHIPPED LOOSE

RACK WEIGHT: 775 LBS.

RDT ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3
CONNECTED LOAD: 34.1 AMPS

MOPD: 50 AMP
MINIMUM CIRCUIT AMPACITY: 38.4

SYSTEM	ITEM #	DESCRIPTION	FIXTURES: TEMP °F FIXT.	FIXTURES: TEMP °F SUCT.	REQ'D FIXTURE BTU/H	REFRIG. R-	CONDENSING UNIT: COMPRESSOR: MODEL NO.	RATING @ 60 HZ: RLA	V	PH	BTU CAP @ AMB °F: 110	TYPE	ESTIMATED REFRIGERANT CHARGE	CONDENSER
A	102	WALK-IN COOLER	35	25	10457	448A	YS11KAE	11.9	208	3	11400	Z	10.6	02-00120-00
B	102	WALK-IN FREEZER	-10	-20	11521	448A	YF13KAE	22.2	208	3	13100	Z	15.8	02-00114-00

SYSTEM	EVAPORATOR COILS: ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ: RLA	V	PH	HEATERS @ 60 HZ: RLA	V	PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY	ACCESSORIES: TSTAT	SOL. VALVE	EXP. VLV.	CHECK VLV.	SHUT-OFF VLV.	REFRIGERANT LINE SIZES (IN): SUCT.	SUCT. LINE RISER	LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD
A		KLP212MA	1	2.0	115	1				O.C.	ECOSMART	1	F	F	EF	N/A	N/A	7/8	7/8	3/8	100	M	11.9
B		KLP314LE	1	1.8	208	1	11.9	208	1	ELEC	ECOSMART	1	F	F	EF	N/A	N/A	1-1/8	1-1/8	3/8	100	M	22.2

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

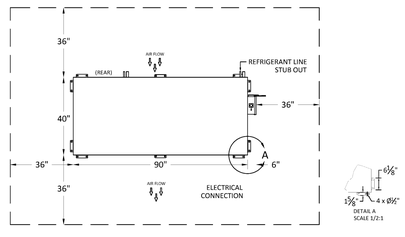
COMPRESSOR TYPE
Z SCROLL

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN - UP TO 100'

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

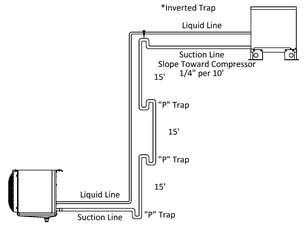
PLANVIEW/ CLEARANCE REQUIREMENTS



NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

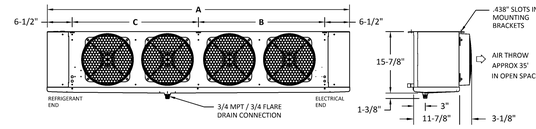
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

EVAPORATOR DETAILS - MODEL KLP



AIR DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
212MA	46-1/4	33-1/4	-	1/2 OD	7/8 ID	3/4	74	2	2.0	1.2

ELECTRIC DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/3
314LE	62-1/4	49-1/4	-	1/2 OD	7/8 ID	3/4	109	3	1.8	11.9	7.7	N/A

PREMIERPAK ENGINEERING SPECIFICATIONS

Multi or Single compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "PREMIERPAK", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75168. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System

The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact powder coated steel frame. The entire housing shall be brushed stainless steel. The unit shall include an air-cooled aluminum fin copper tube condenser designed to operate at 10° - 20° TD. The exterior housing shall feature stainless steel one piece louvers. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. The condenser intake surface shall be protected with stainless steel louvered guard to protect against vandalism and hail damage. Refrigeration system shall operate with the refrigerant specified in the RDT engineering schedule.

The refrigeration system shall be included with the following components:
- Scroll Compressor
- Ball-Bearing Fan Motor
- Suction Filter
- Liquid Drier/Filter
- Fan Cycling Controls
- Head Pressure Controls
- Crankcase Heaters
- Insulate suction line with Armaflex Insulation, thickness determined by local code and jurisdiction.
- Oil Separator (When Required)
- Oil Reservoir (When Required)
- Oil Control System/OMC (When Required)
- Suction Accumulator (When Required)

2. Pre Piping

All refrigerant lines shall be extend to the outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps. All joints must be brazed not soldered. All piping and controls shall be factory pressure-tested with dry nitrogen.

3. Control Panel

U.L.-Listed and Labeled pre-wired control panel complete with circuit breakers, contactors wired for single point power connection. Main disconnect (non fused) where required.

4. Evaporator Coils

All Evaporators shall be direct expansion type, fabricated of copper tubes with aluminum fins and will include the following components:
- Factory-Mounted Solenoid Valve
- Factory-Mounted Electronic Expansion Valve
- Factory-Mounted Demand Defrost Controller w/Temperature sensors
- Factory-Mounted Refrigerant Leak Detectors
- Shipped Loose Liquid Line Shut-off Valve
- Shipped Loose Suction Stop Valve

General Information

General contractor shall verify all dimensions onsite and coordinate with other trades. General contractor shall also prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor

All copper tubing shall be refrigerant grade A.C.R.or type "L" and shall meet all local/federal installation codes for labeling. Silver solder or soft solder is not acceptable. All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi. The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation. Refrigeration contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor.
Any isolation valves required in the line set apart from the refrigeration rack system will be supplied by the installation contractor, not RDT.

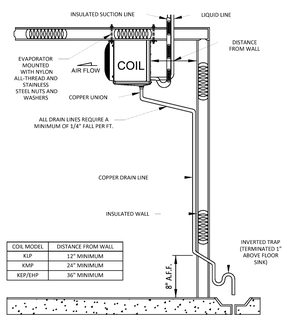
Electrical Contractor

Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram. Electrical contractor to connect drain-line heater in the freezer. All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Electrical contractor shall seal all penetrations through the walk-in units with foam or silicone.

Plumbing Contractor

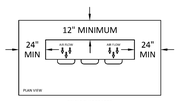
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Plumbing contractor to fit condensate drain lines with - - sweat union. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air. Plumbing contractor to provide individual drain-line for each evaporator unless other arrangements made. All plumbing installation shall be in accordance with local codes.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
KLP	12" MINIMUM
KMP	24" MINIMUM
KEP/EHP	36" MINIMUM

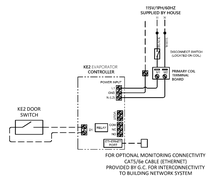
EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - KLP)



WIRING DIAGRAM - ECOSMART - AKEA1AE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW:

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN COOLER	115/1

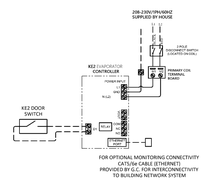


FACTORY WIRING ———
FIELD WIRING - - - -

WIRING DIAGRAM - ECOSMART - AKEB1EE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW:

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN FREEZER	208/1



FACTORY WIRING ———
FIELD WIRING - - - -

APPROVAL STATUS

THIS DRAWING REPRESENTS OUR UNDERSTANDING OF THE SPECIFICATIONS. PLEASE REVIEW IT CAREFULLY FOR ACCURACY. CLEARLY AND IN DETAIL NOTE CHANGES REQUIRED.

MARK APPROPRIATE BOX, SIGN, AND DATE BELOW.

- ☐ APPROVED FOR FABRICATION NO CHANGES
- ☐ APPROVED FOR FABRICATION WITH CHANGES NOTED
- ☐ REVISE AND RE-SUBMIT DRAWING

BY: _____ DATE: _____

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No.	Revision/Issue	Date
0	ORIGINAL ISSUE	4-28-26
1	REVISED TO 448A PER EMAIL	10-26-26

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Dealer
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Atlas Ranch Elementary School
Jarrell, TX

Project No: 33236
Designed By: E. Colvin
Drawn By: E. Colvin
Sheet 1.1 of sheets

Revision / Date
1 11-03-26 ADDENDUM 1

Project:
ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

REGISTERED ARCHITECT JAMES ANDREW SLAVIK 25557 STATE OF TEXAS
11/03/2026

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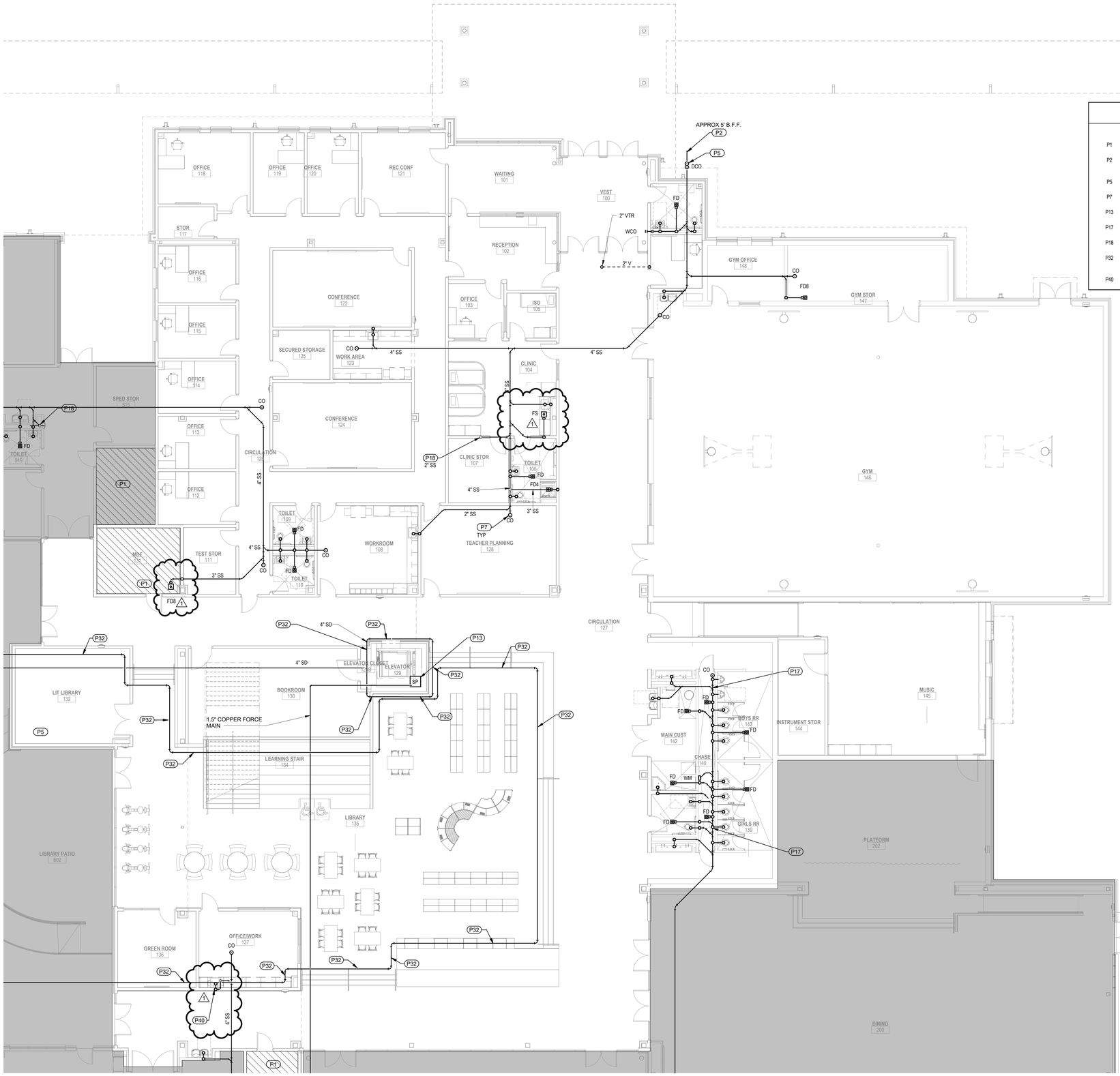
FS CONDENSING UNITS

Job No. 01949-04-01
Drawn By: MM
Date: 10/8/2026
Sheet No. QF1.7

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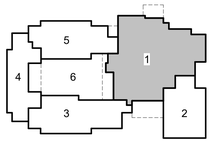
THESE NOTES APPLY TO THIS SHEET ONLY

P1	DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
P2	CONNECT TO WASTEWATER (WW) STUB PROVIDED BY CIVIL OR PROVIDE DRYWELL AS DIRECTED BY OWNER. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
P5	REFERENCE DOUBLE CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
P7	REFERENCE INTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
P13	REFERENCE ELEVATOR SUMP PUMP DETAIL ON PLUMBING DETAIL SHEET(S).
P17	ALL UTILITIES IN CHASE TO BE ROUTED TIGHT TO SIDE WALLS TO ALLOW MAXIMUM ACCESS SPACE IN CENTER OF CHASE.
P18	SANITARY SEWER (SS)/WASTEWATER (WW) FROM FLOOR ABOVE.
P32	FRENCH DRAIN/SUB-SOIL PIPING. REFERENCE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND DETAILS FOR ALL PIPING AND INSTALLATION REQUIREMENTS. CONNECT TO STUB PROVIDED BY CIVIL OUTSIDE THE BUILDING.
P40	SANITARY SEWER PIPING TO BE OFFSET ABOVE SLAB AND ROUTED LOW IN MILLWORK TO MISS GRADE BEAM BELOW. PROVIDE ALL OFFSETS REQUIRED AND COORDINATE WITH MILLWORK.

01 FLOOR PLAN - AREA 1 - LEVEL 1 - PLUMBING - WASTE

SCALE: 1/8" = 1'-0"

PLAN TRUE NORTH



KEY PLAN - 1ST FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

STATE OF TEXAS
PJ HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER
10/08/2026

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FLOOR PLAN - AREA 1 - LEVEL 1 - PLUMBING - WASTE

Job No.	Sheet No.
01949-04-01	P2.01
Drawn By: KAM	
Date: 10/08/2026	

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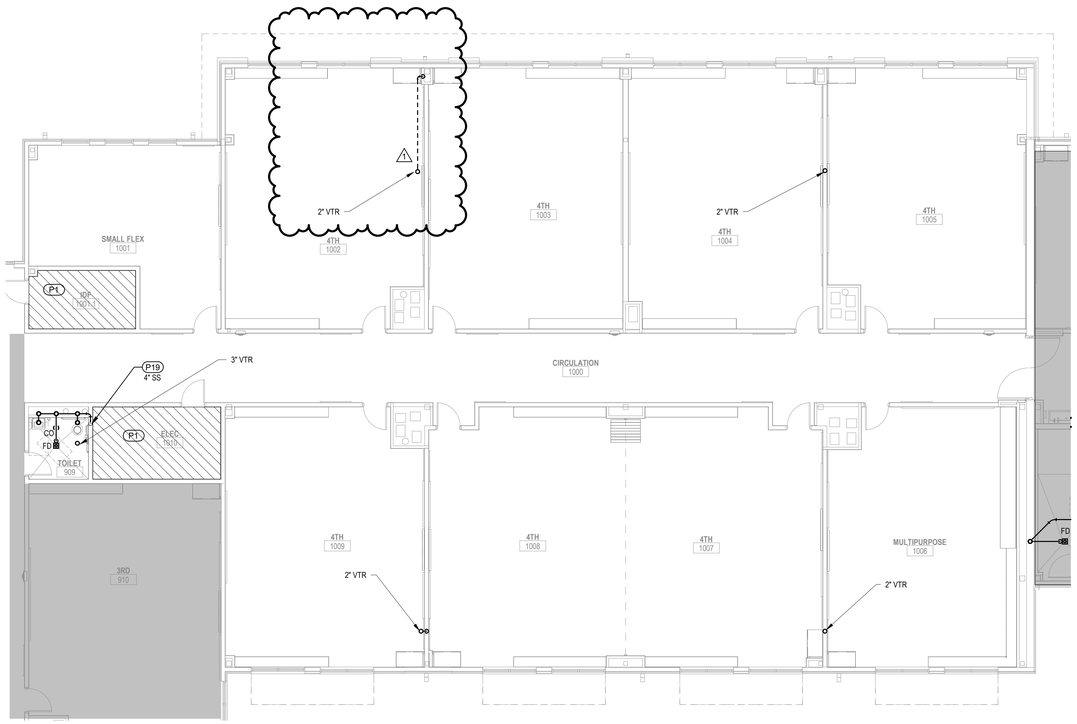
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P1 DO NOT ROUTE ANY PIPING ABOVE THIS AREA.

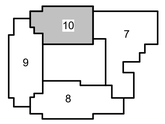
P19 SANITARY SEWER (SS)/WASTE WATER (WW) DOWN TO FLOOR BELOW.



01 FLOOR PLAN - AREA 10 - LEVEL 2 - PLUMBING - WASTE

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 2ND FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

STATE OF TEXAS
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HENDRIX
94813
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FLOOR PLAN - AREA 10 - LEVEL 2 - PLUMBING - WASTE

Job No. 01949-04-01

Drawn By: KAM

Date: 10/08/2026

Sheet No. P2.10

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P2	CONNECT TO WASTEWATER (WW) STUB PROVIDED BY CIVIL OR PROVIDE DRYWELL AS DIRECTED BY OWNER. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
P31	WASTE PIPING FROM DISPOSERS ONLY TO BE ROUTED SEPARATELY FROM OTHER FIXTURES IN KITCHEN TO SOLIDS INTERCEPTOR PRIOR TO ENTERING GREASE INTERCEPTOR.

KITCHEN PLUMBING GENERAL NOTES

THESE NOTES APPLY TO ALL SHEETS

A. PLUMBER TO COORDINATE ALL ROUGH-IN, CONNECTION REQUIREMENTS AND ADDITIONAL CW,HW,WW,VENT REQUIREMENTS WITH KITCHEN CONSULTANT DRAWINGS AND KITCHEN EQUIPMENT SUPPLIER.

B. KITCHEN HOOD / GAS APPLIANCES: GAS PIPING INSIDE THE KITCHEN WILL FEED GAS APPLIANCES UNDER HOOD. LOW PRESSURE 2" PIPE WITH FULL SIZE MAIN ALONG ENTIRE LENGTH OF HOOD. UNLESS OTHERWISE SHOWN. EXACT LOCATION/ELEVATION OF PIPE AND EQUIPMENT CONNECTIONS WILL BE DETAILED ON KITCHEN CONSULTANT PLANS. CONNECT TO SHUT-OFF SOLENOID PROVIDED WITH KITCHEN EQUIPMENT. PIPE PER MANUFACTURER AND KITCHEN DETAILS FOR CORRECT OPERATION OF EMERGENCY SHUT-OFF WITH ANSUL SYSTEM. PIPING TO BE EPOXY PAINED, CLEANABLE AND SCRUBBABLE. EACH INDIVIDUAL COOKING APPLIANCE TO HAVE SHUT-OFF VALVE. WHEN REGULATOR REQUIRED IT WILL BE LOCATED OUTSIDE OR ON ROOF.

C. COOLER/FREEZER: PLUMBER TO COORDINATE FINAL CONDENSATE DRAIN CONNECTION REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER.

D. ISLAND SINKS: FOR ALL ISLAND SINKS, ROUTE HW AND CW UNDERFLOOR TO SINK LOCATION. PROVIDE SHUT-OFF VALVE PRIOR TO PIPING PRIOR TO GOING UNDERGROUND. FOLLOW ISLAND SINK DETAIL FOR ADDITIONAL REQUIREMENTS.

E. BACKFLOW PREVENTERS/RPZ: WHEN BACKFLOW PREVENTER/RPZ IS REQUIRED BY CODE OR DRAWINGS. LOCATE RPZ IN CODE APPROVED ACCESSIBLE LOCATION OR WITH ACCESS DOOR IF INSIDE WALL. ROUTE RPZ DRAIN TO NEAREST FLOOR SINK, DO NOT CREATE TRIPPING HAZARD. CONTRACTOR TO DO INITIAL TESTING OF ALL TESTABLE DEVICES. INCLUDING COMBI-OVEN, HOSE REEL, ICE MACHINE, ETC.

F. AIR GAP: ALL INDIRECT WASTE CONNECTIONS PIPED TO FLOOR SINKS ARE TO HAVE PROPER AIR GAP PER CODE. INCLUDING 3 COMPARTMENT SINKS, DISH WASHERS, SPRAY SINKS, PREP SINKS, ICE MACHINE, FOOD EQUIPMENT, ETC.

G. FLOOR DRAINS: GET FINAL DIMENSIONED LOCATION FOR ALL FD'S IN KITCHEN FROM ARCHITECT OR KITCHEN CONSULTANT. PIPE TO GREASE WASTE.

H. FLOOR SINK:GET FINAL DIMENSIONED LOCATION FOR ALL FD'S FROM ARCHITECT OR KITCHEN CONSULTANT. COORDINATE FINAL GRATE OPENING TYPE WITH ACTUAL EQUIPMENT BEING PROVIDED. PIPE TO GREASE WASTE.

I. HIGH TEMPERATURE DISCHARGE: ALL KITCHEN APPLIANCES WITH HIGH TEMPERATURE WATER DISCHARGE ARE TO HAVE CAST IRON WASTE PIPING FOR MINIMUM OF 25 FT DOWNSTREAM OF APPLIANCES TO PREVENT PIPING SYSTEM DAMAGE.

J. GREASE WASTE: ROUTE ALL COOKING AND FOOD PREP SINKS, FLOOR DRAINS, AND FLOOR SINKS IN KITCHEN TO GREASE WASTE PIPING AND GREASE TRAP. REFERENCE GREASE TRAP DETAILS FOR ADDITIONAL INFORMATION.

K. GREASE TRAP: REFERENCE GREASE TRAP DETAIL ON DETAILS SHEETS. PROVIDE GREASE TRAP INSTALLATION COMPLETE IN EVERY WAY. INCLUDING ROUTING VENTS FROM GREASE TRAP TO VTR. PROVIDE SAMPLE WELL AS DETAILED AND SPECIFIED. COORDINATE FINAL LOCATIONS WITH CIVIL AND ARCHITECTURAL ITEMS IN SERVICE YARD FOR PROPER ACCESS TO MANHOLE OPENINGS.

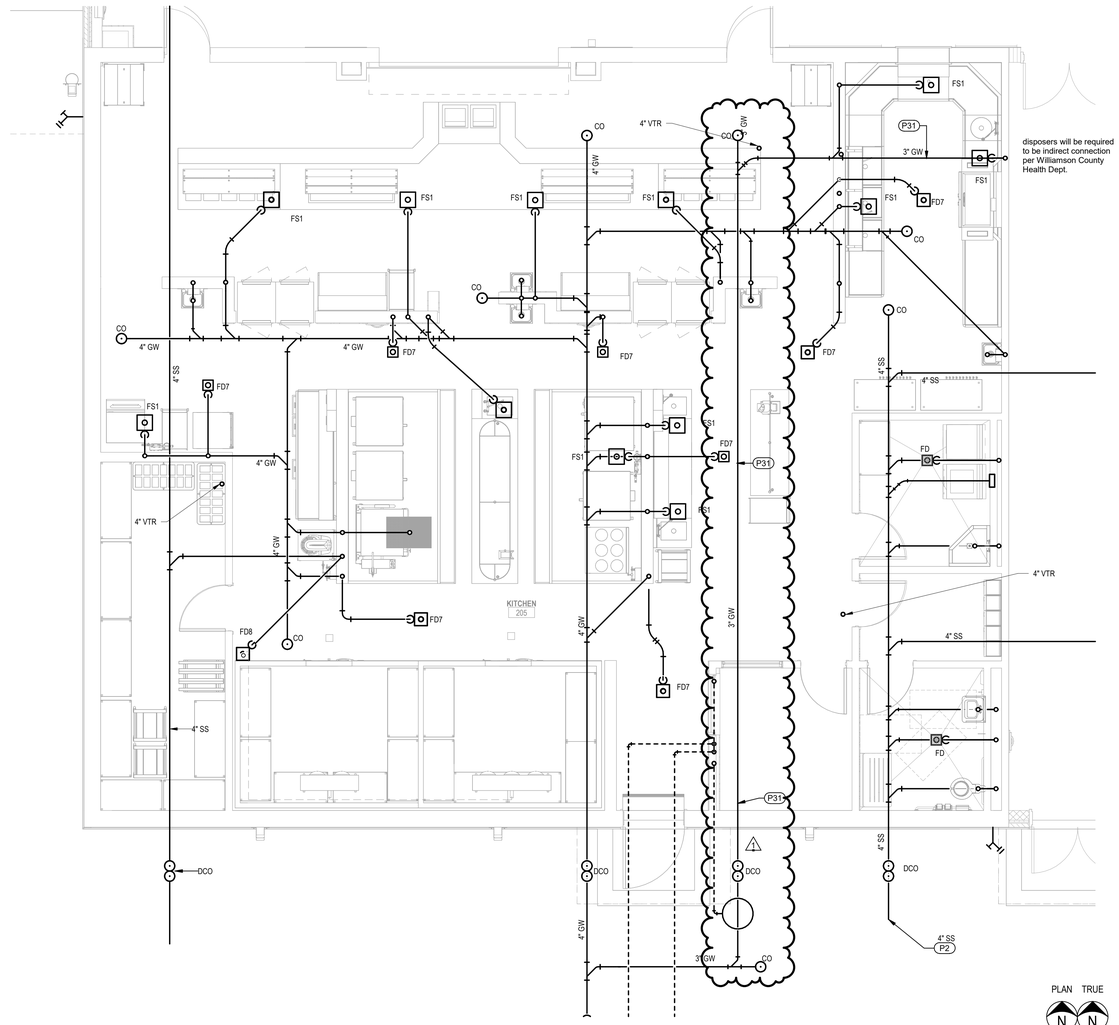
L. SOLIDS INTERCEPTOR/FOOD DISPOSER: WHEN FOOD DISPOSER IS USED IN COMMERCIAL KITCHEN PROVIDE SEPARATE GREASE WASTE PIPE THROUGH SOLIDS INTERCEPTOR PRIOR TO ENTERING GREASE TRAP.

M. THERMOSTATIC MIXING VALVES: PROVIDE THERMOSTATIC MIXING VALVE (TMV) ON ALL SINKS (EXCEPT 2 AND 3 COMPARTMENT SINKS) EQUAL TO POWERS HYDROGUARD LFE480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 PSI DROP.

N. CAST IRON KITCHEN WASTE: WASTE PIPING AND FITTING FROM DISHWASHER FLOOR SINK, TILT BRAISING FLOOR TROUGH TO A POINT AT LEAST TWENTY FEET (20') DOWNSTREAM TO BE CAST IRON IN LIEU OF SCHEDULE 40 PVC.

O. SANITARY WASTE ABOVE GRADE: ALL SANITARY WASTE ABOVE GRADE IN KITCHEN SHALL BE TYPE 'L' HARD DRAWN COPPER WITH DWV WROT COPPER FITTINGS.

P. INTERIOR GAS PIPE: ALL ABOVE GRADE PIPING KITCHEN BEHIND EQUIPMENT OR UNDER COUNTERS, SUPPLY, WASTE, GAS, ETC., SHALL BE SUPPORTED FROM WALLS OR THE COUNTER FRAME. DO NOT SUPPORT FROM FLOOR. FLOOR IS TO REMAIN AS CLEAR AS POSSIBLE FOR CLEANING. (I.E. DO NOT PUT UNISTRUT ON FLOOR TO ANCHOR PIPING.)



PLAN TRUE N N

01 ENLARGED KITCHEN PLAN - PLUMBING - WASTE

SCALE: 1/4" = 1'-0"

Revision /	Date	
1	10.30.26	Addendum 1

Project: ATLAS RANCH ELEMENTARY SCHOOL FOR JARRELL ISD 115 WINDGAP DR, JARRELL, TX 76537

STATE OF TEXAS — BRIAN J. HENDRIX — 94813 — LICENSED PROFESSIONAL ENGINEER

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ENLARGED KITCHEN PLAN - PLUMBING - WASTE

Job No.	Sheet No.
01949-04-01	P2.20
Drawn By: KAM	
Date: 10/08/2026	

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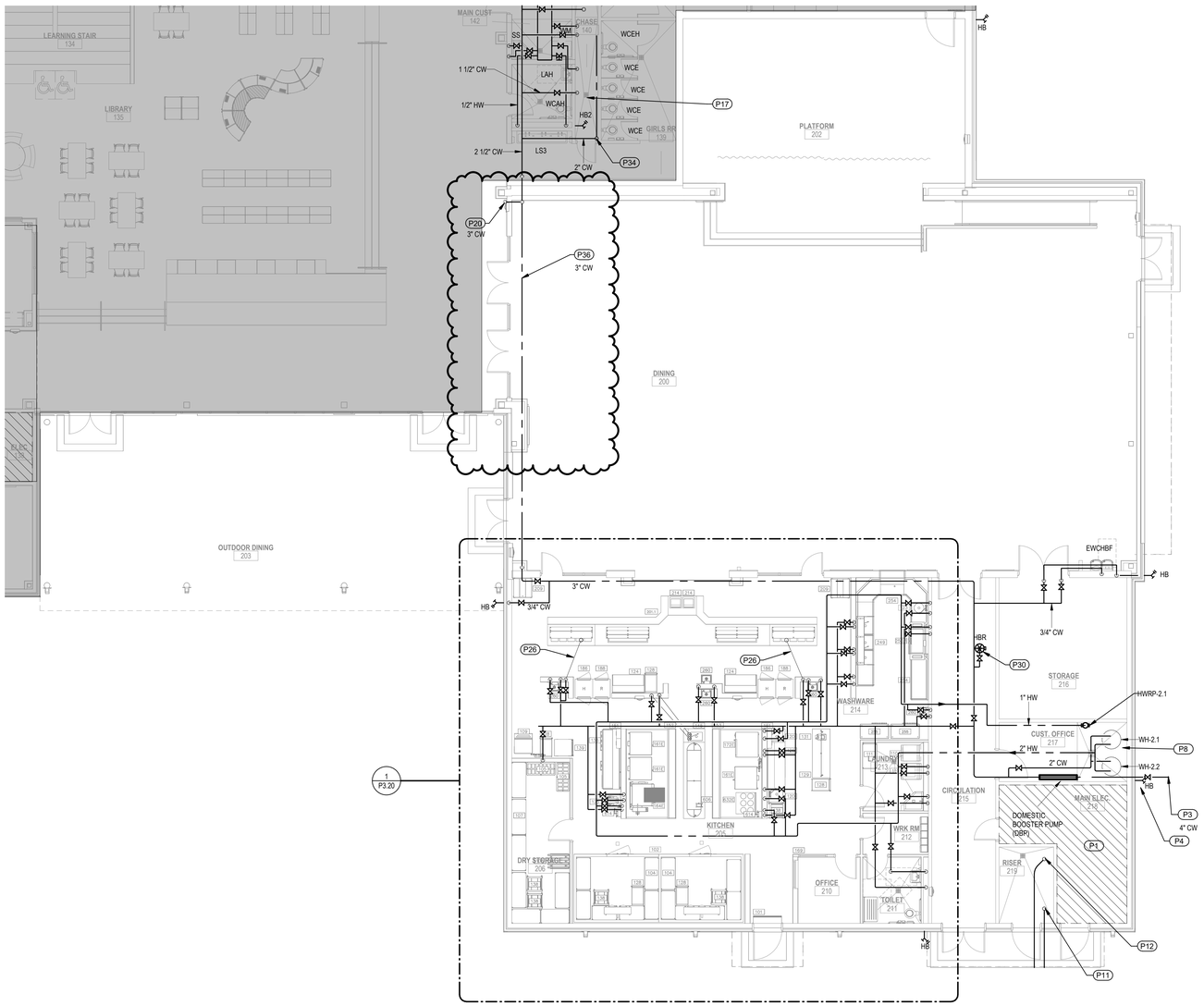
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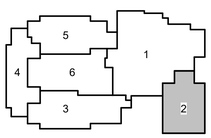
P1	DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
P3	CONNECT TO COLD WATER (CW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION. PROVIDE RPZ IN DOMESTIC WATER LINE INSIDE THE BUILDING.
P4	REFERENCE CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
P8	REFERENCE WATER HEATER DETAIL ON PLUMBING DETAIL SHEET(S) FOR WATER HEATER AND HOT WATER RECIRCULATION PUMP PIPING.
P11	CONNECT TO FIRE LINE (F) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT.
P12	CONNECT TO FIRE LINE (F) STUB PROVIDED BY CIVIL FOR REMOTE FIRE DEPARTMENT CONNECTION (FDC). FIELD VERIFY EXACT LOCATION AND INVERT.
P17	ALL UTILITIES IN CHASE TO BE ROUTED TIGHT TO SIDE WALLS TO ALLOW MAXIMUM ACCESS SPACE IN CENTER OF CHASE.
P20	COLD WATER TO/FROM TO FLOOR ABOVE.
P26	PIPING UNDER FLOOR.
P30	HOSE BIBB AT ROOF. REFERENCE DETAIL ON DETAIL SHEETS.
P34	2" COLD WATER TO DROP DOWN IN CHASE. PROVIDE SHUT-OFF VALVE AT APPROXIMATELY 48" A.F.F.
P36	WATER PIPING IN FURR DOWN/BULKHEAD. COORDINATE WITH ARCHITECTURAL.



01 FLOOR PLAN - AREA 2 - LEVEL 1 - PLUMBING - SUPPLY

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 1ST FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
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94813
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FLOOR PLAN - AREA 2 - LEVEL 1 - PLUMBING - SUPPLY

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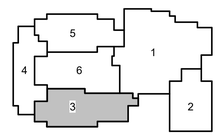
THESE NOTES APPLY TO THIS SHEET ONLY

P1	DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
P8	REFERENCE WATER HEATER DETAIL ON PLUMBING DETAIL SHEET(S) FOR WATER HEATER AND HOT WATER RECIRCULATION PUMP PIPING.
P17	ALL UTILITIES IN CHASE TO BE ROUTED TIGHT TO SIDE WALLS TO ALLOW MAXIMUM ACCESS SPACE IN CENTER OF CHASE.
P20	COLD WATER TO/FROM TO FLOOR ABOVE.
P22	HOT WATER TO/FROM FLOOR ABOVE.
P29	2" COLD WATER TO DROP ON EACH SIDE OF CHASE. PROVIDE SHUT-OFF VALVE ON EACH SIDE AT APPROXIMATELY 48" A.F.F.



01 **FLOOR PLAN - AREA 3 - LEVEL 1 - PLUMBING - SUPPLY**
SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 1ST FLOOR
N.T.S.

Revision /	Date	Addendum 1
1	10.30.26	

Project:
ATLAS RANCH ELEMENTARY SCHOOL
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FLOOR PLAN - AREA 3 - LEVEL 1 - PLUMBING - SUPPLY

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01949-04-01	P3.03
Drawn By: KAM	
Date: 10/08/2026	

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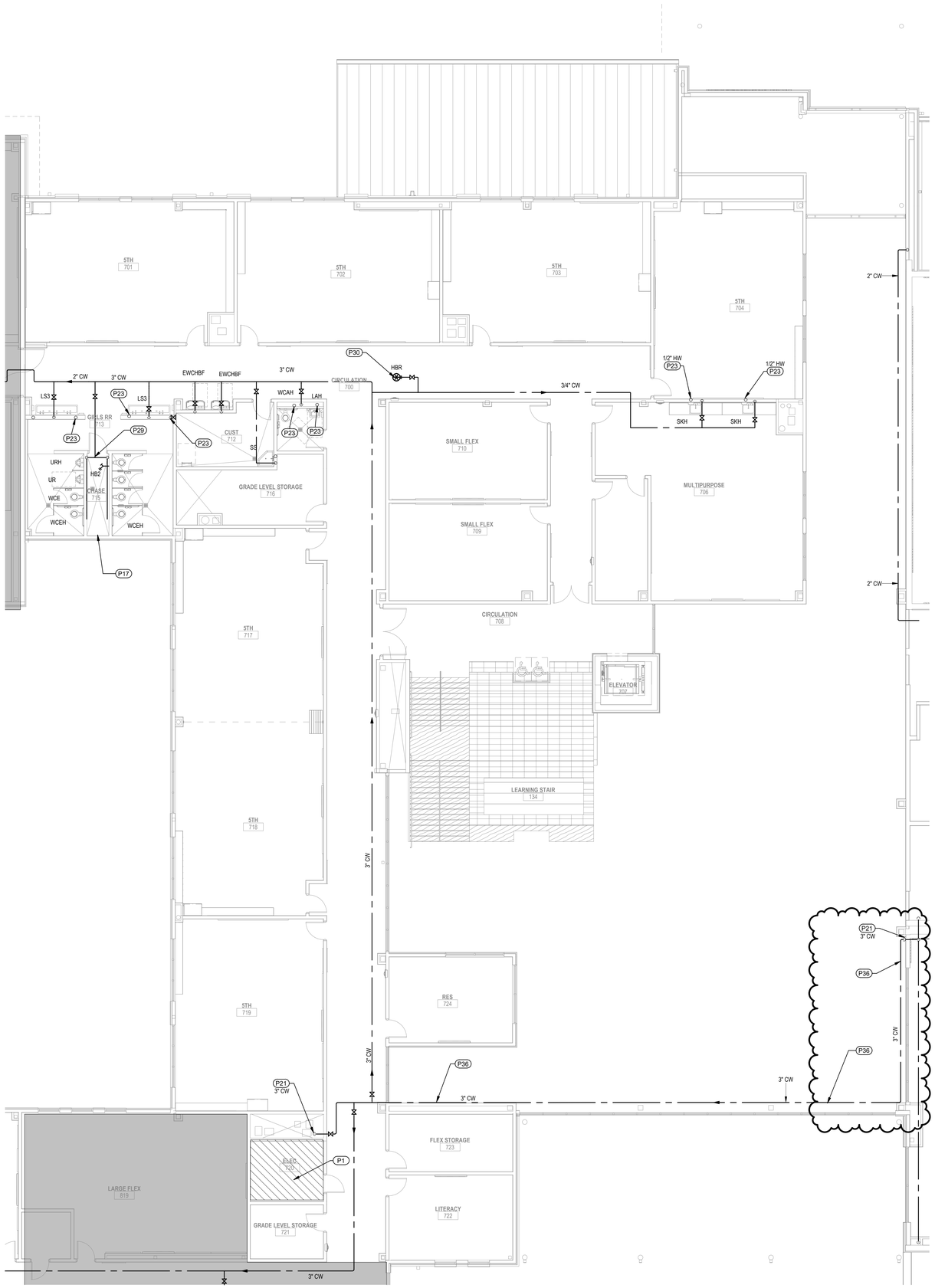
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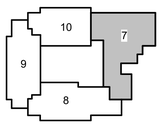
P1	DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
P17	ALL UTILITIES IN CHASE TO BE ROUTED TIGHT TO SIDE WALLS TO ALLOW MAXIMUM ACCESS SPACE IN CENTER OF CHASE.
P21	COLD WATER TO/FROM FLOOR BELOW.
P23	HOT WATER TO/FROM FLOOR BELOW.
P29	2" COLD WATER TO DROP ON EACH SIDE OF CHASE. PROVIDE SHUT-OFF VALVE ON EACH SIDE AT APPROXIMATELY 48" A.F.F.
P30	HOSE BIBB AT ROOF. REFERENCE DETAIL ON DETAIL SHEETS.
P36	WATER PIPING IN FURR DOWN/BULKHEAD. COORDINATE WITH ARCHITECTURAL.



01 FLOOR PLAN - AREA 7 - LEVEL 2 - PLUMBING - SUPPLY

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 2ND FLOOR
N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

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FOR
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HCE job no.: 26-008

FLOOR PLAN - AREA 7 - LEVEL 2 - PLUMBING - SUPPLY

Job No.	Sheet No.
01949-04-01	P3.07
Drawn By: KAM	
Date: 10/08/2026	

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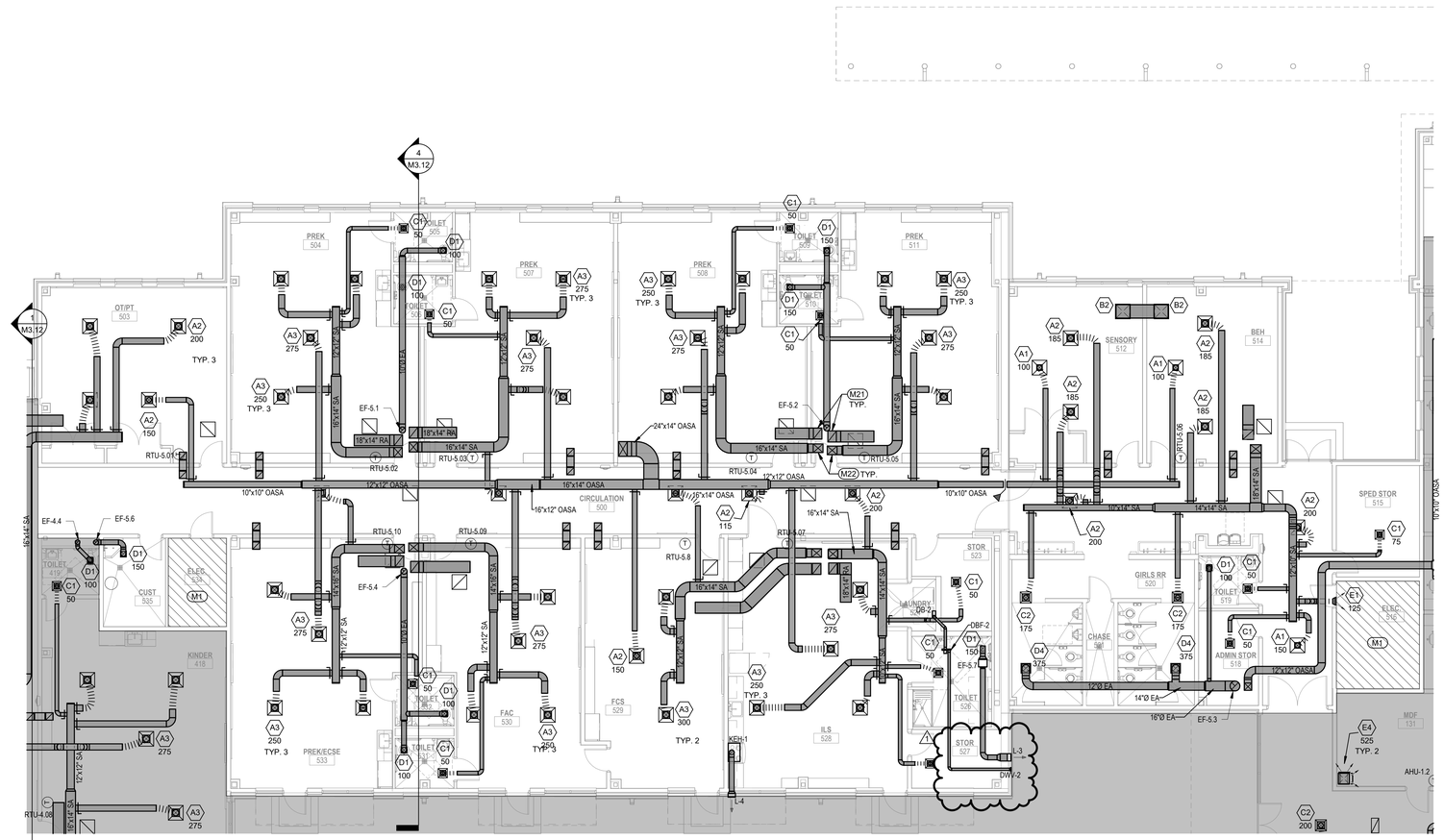
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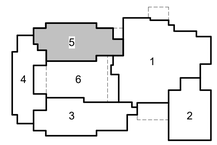
M1	DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
M21	RETURN DUCT TO/FROM FLOOR ABOVE.
M22	SUPPLY DUCT TO/FROM FLOOR ABOVE.



01 FLOOR PLAN - AREA 5 - LEVEL 1 - MECHANICAL

SCALE: 1/8" = 1'-0"

PLAN TRUE NORTH



KEY PLAN - 1ST FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

Project:

ATLAS RANCH ELEMENTARY SCHOOL
FOR
JARRELL ISD
115 WINDGAP DR, JARRELL, TX 76537

STATE OF TEXAS
BRANDON T. MENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

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FLOOR PLAN - AREA 5 - LEVEL 1 - MECHANICAL

Job No.	Sheet No.
01949-04-01	M2.05
Drawn By: TIM	
Date: 10/08/2026	

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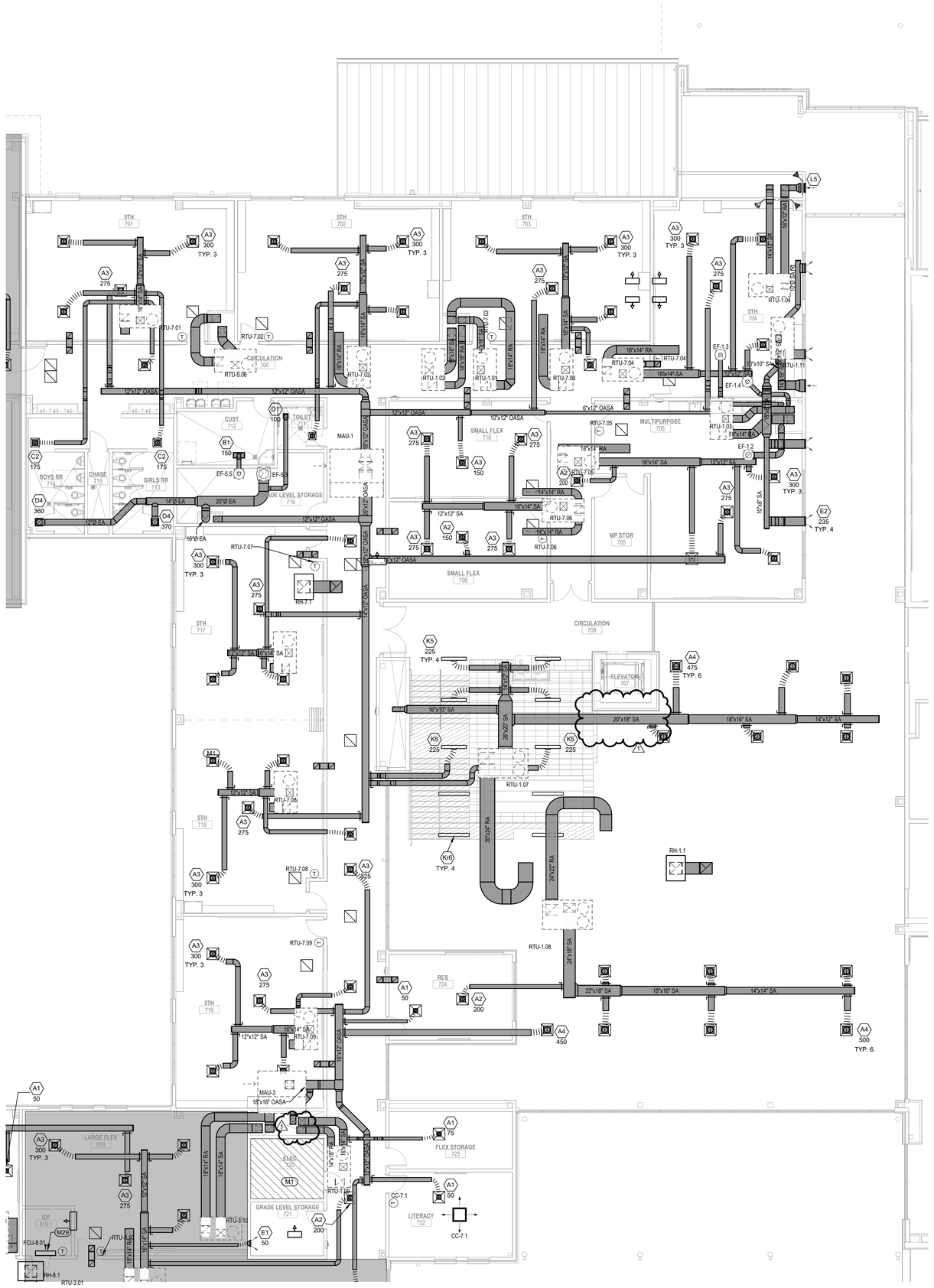
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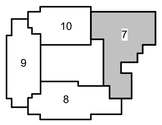
M1	DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
M29	TAKE MINISPLIT CONDENSATE TO NEAREST 1ST FLOOR IDF ROOM DRAIN.



01 FLOOR PLAN - AREA 7 - LEVEL 2 - MECHANICAL

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 2ND FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

Project:

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FLOOR PLAN - AREA 7 - LEVEL 2 - MECHANICAL

Job No.	Sheet No.
01949-04-01	M2.07
Drawn By: TIM	
Date: 10/08/2026	

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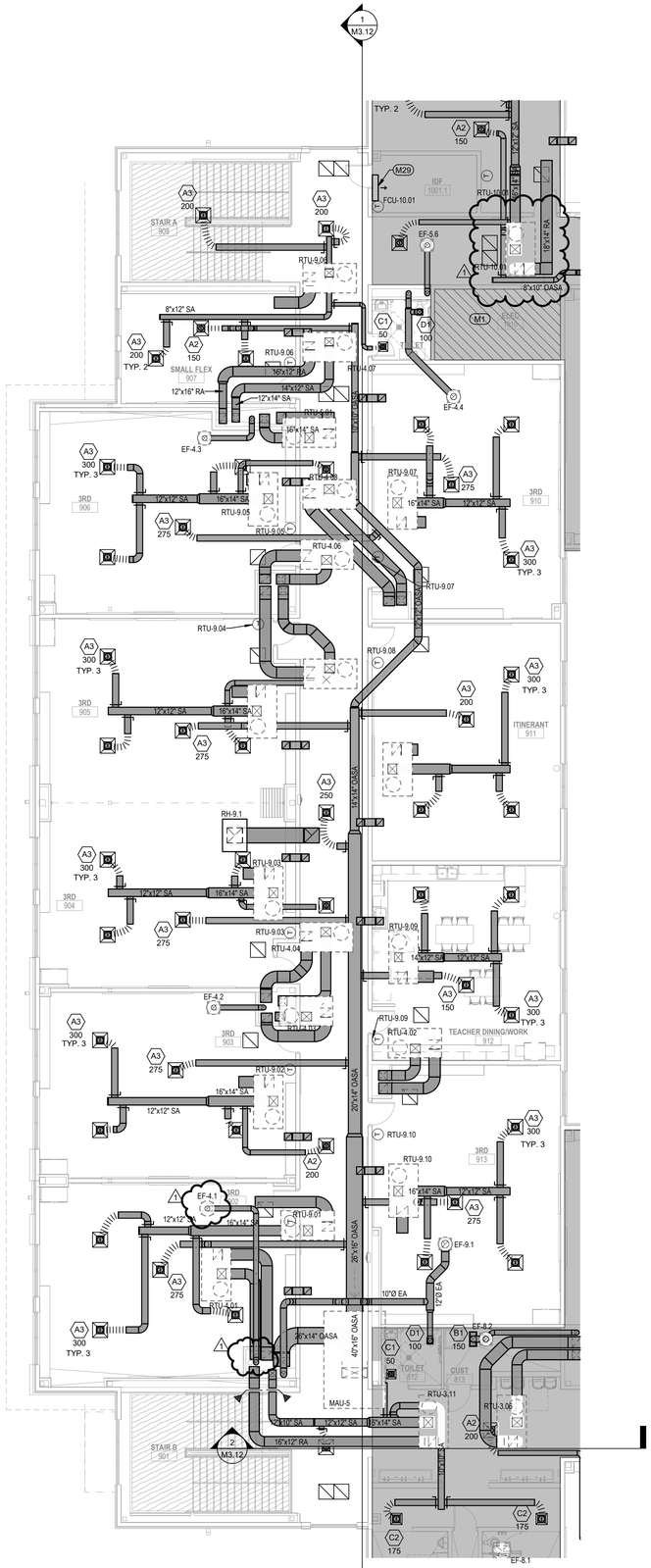
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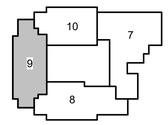
M1	DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
M29	TAKE MINISPLIT CONDENSATE TO NEAREST 1ST FLOOR IDF ROOM DRAIN.



01 FLOOR PLAN - AREA 9 - LEVEL 2 - MECHANICAL

SCALE: 1/8" = 1'-0"

PLAN TRUE NORTH



KEY PLAN - 2ND FLOOR

N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

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FLOOR PLAN - AREA 9 - LEVEL 2 - MECHANICAL

Job No.	Sheet No.
01949-04-01	M2.09
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Date: 10/08/2026	

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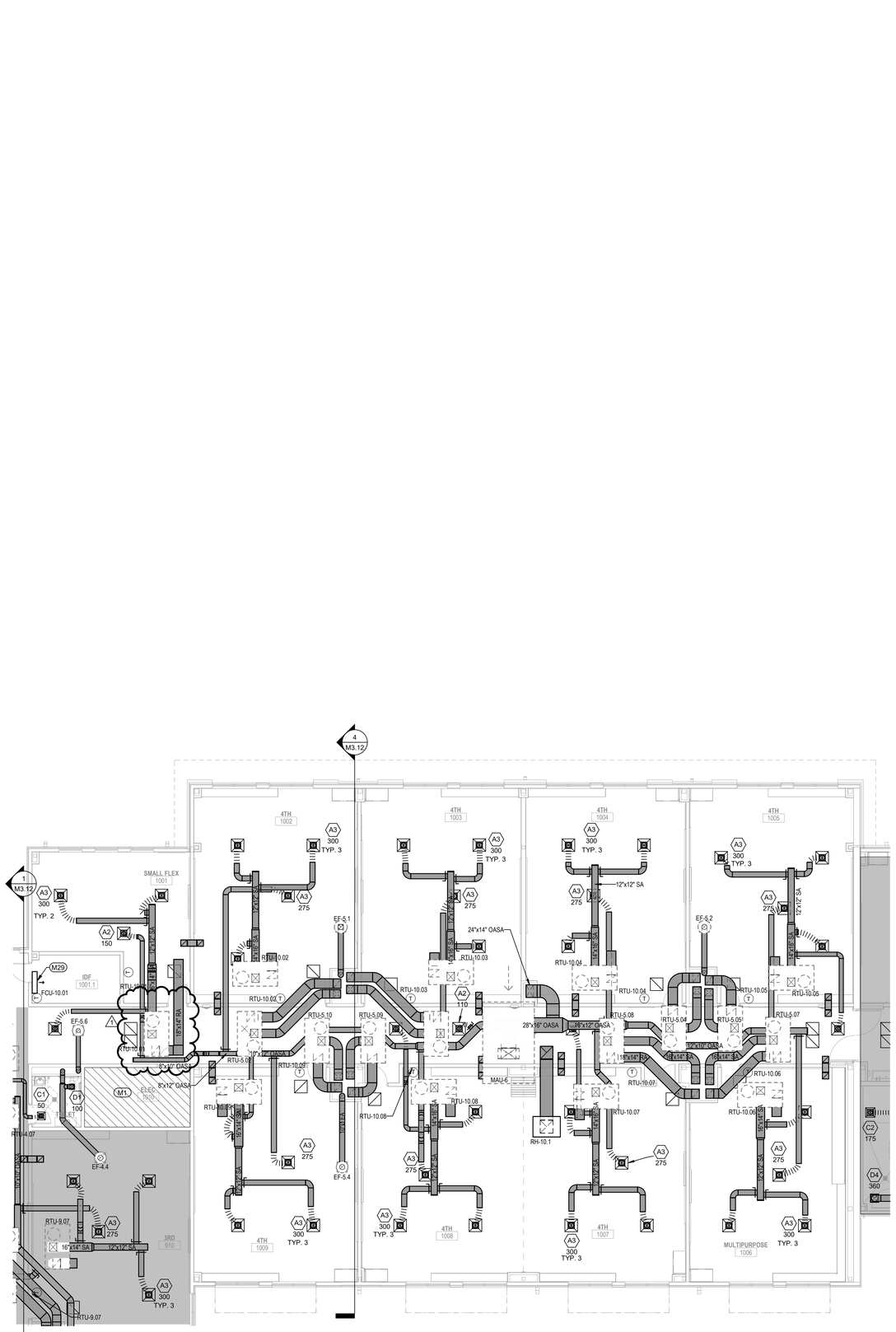
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M1 DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.

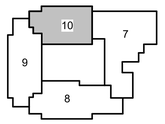
M29 TAKE MINISPLIT CONDENSATE TO NEAREST 1ST FLOOR IDF ROOM DRAIN.



01 FLOOR PLAN - AREA 10 - LEVEL 2 - MECHANICAL

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 2ND FLOOR

N.T.S.

Revision /	Date	Addendum 1
1	10.30.26	

Project:

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FLOOR PLAN - AREA 10 - LEVEL 2 - MECHANICAL

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LIGHTING KEY NOTES

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L1	LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE.
L3	LOWER CASE LETTER DENOTES SWITCHING FUNCTION.
L4	COORDINATE ALL EXTERIOR FIXTURE ELEVATIONS WITH ARCHITECTURAL PLANS.
L5	PROVIDE ESSENCE FAN WALL CONTROLLER WITH WEATHERPROOF COVER.
L7	LIGHTING IN ELEVATOR SHAFT. COORDINATE WITH ELEVATOR CONTRACTOR AND OWNER.
L8	MOUNT FIXTURES AT STRUCTURE. LIGHT ELEVATIONS TO BE BELOW DUCTWORK. COORDINATE WITH MECHANICAL.
L10	COORDINATE FAN MOUNTING DETAILS WITH STRUCTURAL AND MANUFACTURER'S INSTALLATION MANUAL.
L12	PROVIDE WEATHERPROOF COVER FOR DEVICES.
L13	SUSPEND WITH AIRCRAFT CABLE TO 20'-0" A.F.F
L15	BUTTON WITH INDICATOR LIGHT TO OVERRIDE PHOTOCELL AND MOTION SENSOR DURING PRESENTATIONS. REFERENCE INTERIOR LIGHTING SCHEDULE FOR ADDITIONAL INFORMATION.
L16	TOUCHSCREEN LIGHTING CONTROLLER FOR CAFETERIA AND STAGE LIGHTING. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
L18	SEE 2ND LEVEL PLAN FOR LIGHTING IN THIS AREA.
L19	FIXTURES IN THIS REGION ARE TO BE POWERED BY THE CIRCUIT INDICATED. REFERENCE INTERIOR LIGHTING SCHEDULE FOR SEQUENCE OF OPERATIONS.
L20	MOUNT TO CEILING.
L22	LIGHTS FOR ILLUMINATING SCHOOL SIGNAGE/LOGO. SURFACE MOUNT FIXTURES TO VERTICAL FACE OF STRUCTURAL BEAM FACING SCHOOL SIGNAGE/LOGO.

ALL FIRE ALARM, CLOCKS, EMERGENCY & EXIT LIGHTS, ACCESS POINTS AND SECURITY DEVICES IN THE GYM SHALL HAVE WIRE GUARDS.

01 FIRST FLOOR PLAN - AREA 1 - LIGHTING
SCALE: 1/8" = 1'-0"

PLAN TRUE NORTH

KEY PLAN - 1ST FLOOR
NTS

Revision / Date
1 Addendum 1 10.30.26

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FLOOR PLAN - AREA 1 - LEVEL 1 - LIGHTING

Job No. 01949-04-01
Drawn By: PP
Date: 10/08/2026
Sheet No. E2.01

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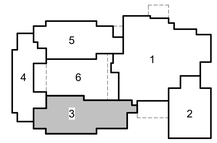
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L1	LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE.
L4	COORDINATE ALL EXTERIOR FIXTURE ELEVATIONS WITH ARCHITECTURAL PLANS.
L5	PROVIDE ESSENCE FAN WALL CONTROLLER WITH WEATHERPROOF COVER.
L12	PROVIDE WEATHERPROOF COVER FOR DEVICES.
L19	FIXTURES IN THIS REGION ARE TO BE POWERED BY THE CIRCUIT INDICATED. REFERENCE INTERIOR LIGHTING SCHEDULE FOR SEQUENCE OF OPERATIONS.





KEY PLAN - 1ST FLOOR
N.T.S.

PLAN TRUE N

01 **FIRST FLOOR PLAN - AREA 3 - LIGHTING**
SCALE: 1/8" = 1'-0"

Revision / Date
1 10.30.26 Addendum 1

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FLOOR PLAN - AREA 3 - LEVEL 1 - LIGHTING

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Date: 10/08/2026
Sheet No. E2.03

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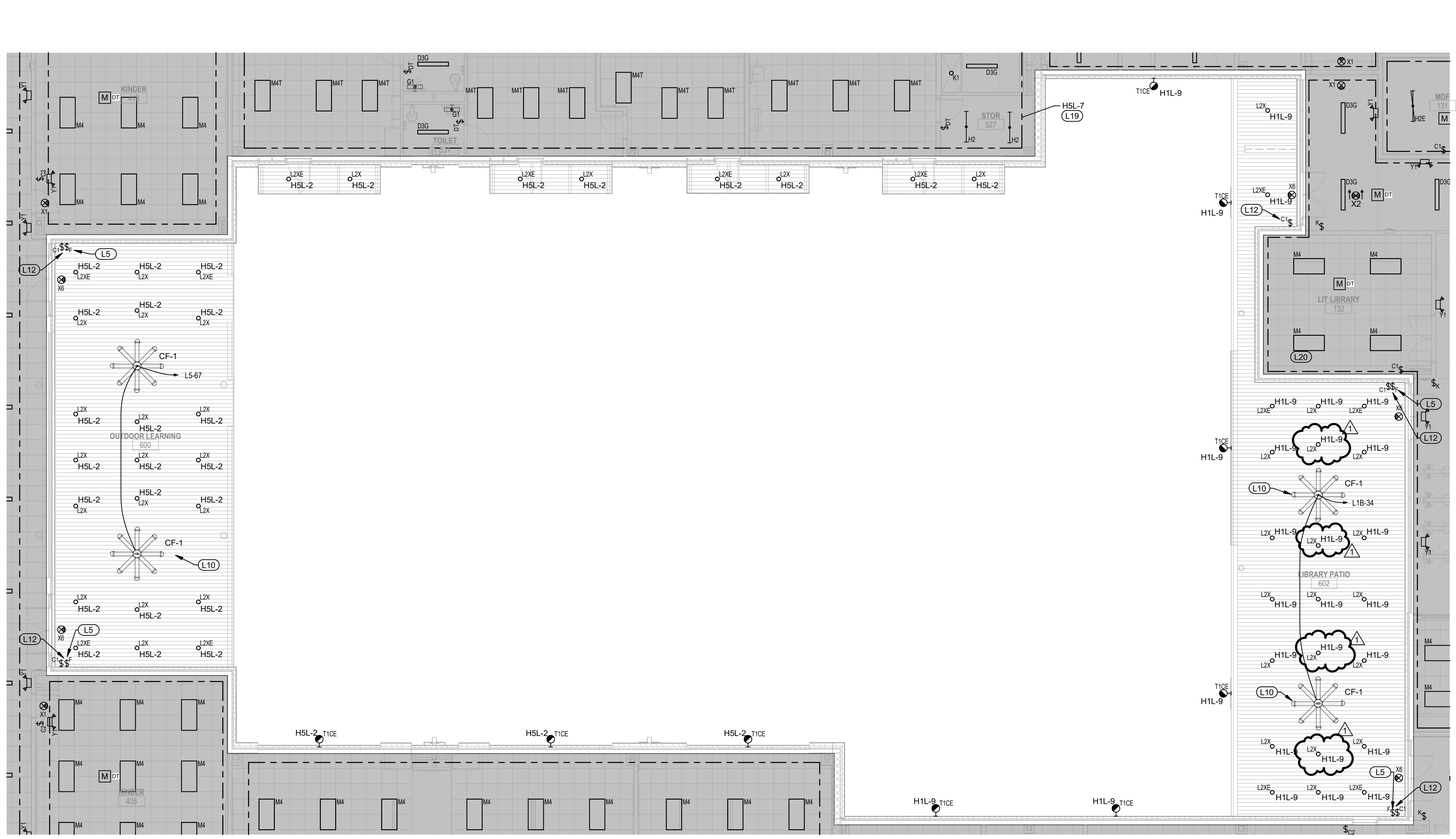
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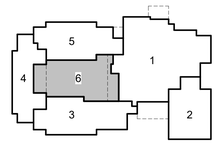
L5	PROVIDE ESSENCE FAN WALL CONTROLLER WITH WEATHERPROOF COVER.
L10	COORDINATE FAN MOUNTING DETAILS WITH STRUCTURAL AND MANUFACTURER'S INSTALLATION MANUAL.
L12	PROVIDE WEATHERPROOF COVER FOR DEVICES.
L19	FIXTURES IN THIS REGION ARE TO BE POWERED BY THE CIRCUIT INDICATED. REFERENCE INTERIOR LIGHTING SCHEDULE FOR SEQUENCE OF OPERATIONS.
L20	MOUNT TO CEILING.



01 FIRST FLOOR PLAN - AREA 6 - LIGHTING

SCALE: 1/8" = 1'-0"

PLAN TRUE N N



KEY PLAN - 1ST FLOOR

N.T.S.

Revision /	Date	Addendum 1
1	10.30.26	

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FLOOR PLAN - AREA 6 - LEVEL 1 - LIGHTING

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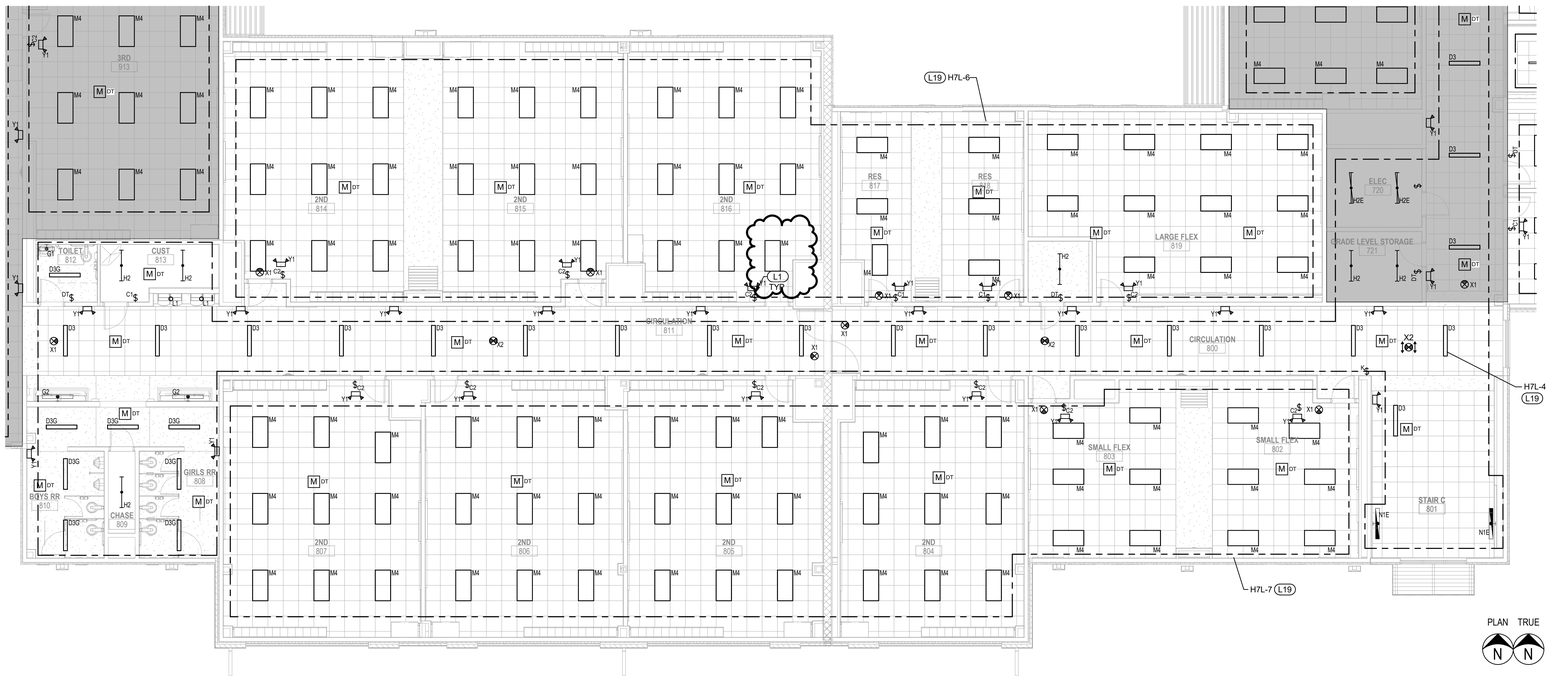
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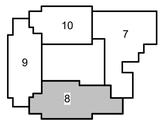
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L19	FIXTURES IN THIS REGION ARE TO BE POWERED BY THE CIRCUIT INDICATED. REFERENCE INTERIOR LIGHTING SCHEDULE FOR SEQUENCE OF OPERATIONS.



01 **SECOND FLOOR PLAN - AREA 8 - LIGHTING**
SCALE: 1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

Revision /	Date	
1	10.30.26	Addendum 1

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FOR
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FLOOR PLAN - AREA 8 - LEVEL 2 - LIGHTING

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