Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ADDENDUM NO. 1

for CSP #250086

Org 208 Seagoville Elementary School – Addition and Renovation

Dallas Independent School District
April 27, 2026

Any addendum issued will be listed or posted at the **Dallas ISD Construction Services** website http://www.dallasisd.org/ **Click on "Departments"; click on "Construction Services/Bond Office"; click on "Bond Vendor Opportunities"**; then click on the bid package number. Any and all addenda that are too large in size for the website will not be posted on the District website. However, all such addenda will be listed on the website with the date of issuance of each addendum, and instructions to proposers for procuring such addenda from Lawton Reprographics.

Printing Company Name:	**Lawton Reprographics**
Attention:	**Greg Howard**
Address:	**14305 Inwood Rd.**
City, State and Zip	**Dallas, TX 75244**
Phone:	**(972) 980-2957**
Email:	**Orders@lawtonrepro.com**

Addenda will be available from the Printing Company for purchase. Purchase price must be obtained directly from the Printing Company

The following items modify the plans and specifications and shall become a part of the contract documents.

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QUESTIONS:

ITEM NO. 1 Question 1: Please provide the manufacturer of the existing access control system in order to interconnect to the existing system.

Response: The DISD security contractor is fully aware of existing DISD access control systems and all other related requirements. The winning bidder will be required to engage DISD selected security contractor on this project. The winning bidder will be provided with DISD security contractor's contact information at the time of negotiations.

ITEM NO. 2 Question 2: Please provide inventory for moving services. Will we be able to stage packed items and furniture on campus or it they need to be taken to an off campus location?

Response: The Contractor shall be responsible for documenting all furniture and equipment being relocated as part of the work. All teacher-boxed items shall be inventoried, tracked, and coordinated with campus administrative staff throughout any temporary relocation.

On-campus staging of furniture and boxed items is permitted; off-campus storage is not required. The Contractor may relocate and stage items within the building as necessary to facilitate the work.

If work is performed during the active school year, including after-hours shifts, all classrooms and instructional spaces must be fully restored at the end of each work shift. This includes returning all furniture and materials to their original locations to ensure the spaces are operational for the next school day.

ITEM NO. 3 Question 3: The plans call for all furniture in work areas to be moved to a temporary location with all moving costs on the contractor. Most interior renovation work appears to be phased to occur during summer break, will relocating any furniture within the building be acceptable or will the contractor be required to supply the storage as well?

Response: Temporary off-site storage is not required under this scope. The Contractor may relocate and stage furniture within the building as necessary to support the work.

For work occurring during summer break or other non-occupied periods, furniture may remain in designated on-site staging areas, as coordinated with campus administration.

If any work is performed during the active school year, including after-hours shifts, all affected spaces must be fully restored at the end of each work shift. This includes returning all furniture to its original locations to ensure the spaces are ready for use the next school day.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ITEM NO. 4 Question 4: Please confirm whether abatement is included in the contractor's scope of work or if it will be provided by the Owner under a separate contract.

Response: All required abatement work is included within the General Contractor's scope of work. The General Contractor shall be responsible for providing a qualified abatement subcontractor and for full coordination, scheduling, permitting, and execution of all abatement activities in accordance with applicable regulations.

Abatement will **not** be provided by the Owner under a separate contract.

ITEM NO.5 Question 5: Specification Section 23 74 13 appears to referenced but was not included in the issued project manual. Please provide the missing section for review.

Response: Specification Section 23 74 13 has been removed from and is under the 23 30 00 HVAC Air Distribution specification section.

ITEM NO.6 Question 6: The specifications require millwork to be AWI certified. Typically Dallas ISD projects only require millwork to be fabricated and installed in accordance with AWI standards. Please advise if it would be acceptable to install the millwork in accordance with AWI standards without requiring AWI certification

Response: AWI certification is not required for this project. However, all millwork shall be fabricated and installed in strict accordance with the applicable standards of the Architectural Woodwork Institute.

The Contractor shall ensure that all materials, fabrication, and installation meet or exceed AWI quality requirements as specified in the contract documents.

ITEM NO.7 Questions 7: Specification 32 31 19 provides information on Decorative Metal Fences and Gates; however, no indication is given where this fencing is to be placed within the Architectural, Landscape, or Civil drawings. Please advise if Decorative Metal Fencing is applicable to this project.

Response: Delete Specification 32 31 19 as there is no scope of work for Decorative metal fences and gates.

ITEM NO.8 Question: Specification Section 00 41 12 – Proposal Form – Alternates and Unit Pricing calls for a total of (20) 36" diameter piers to have casing of 10' to be included in the base bid. Detail 01/S601 does not identify any 36" piers, only 18", 24" and 30". Additionally, depth to bearing for piers is noted as 32' per structural general notes. 10' of casing in a 32' deep pier is not feasible. Please confirm how much casing is intended to be included per pier diameter and what pier diameters will require unit pricing on the bid form.

Response: Refer to updated Specification Section 00 41 12 – Proposal Form – Alternates and Unit Pricing

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ITEM NO.9 Question: Good afternoon, we are missing the below listed specs for the Seagoville Elementary School Additions and Renovations project. Please advise. Thank you.

Missing Specs: 06 61 16, 07 11 13, 07 59 00, 08 44 13, 09 65 13, 10 14 63, 12 24 14, 21 05 00, 22 05 17, 22 07 19, 22 08 00, 22 40 19, 23 05 10, 23 05 13, 23 05 19, 23 05 23, 23 05 29, 23 07 13, 23 07 19, 23 09 23, 23 11 23, 23 21 13, 23 21 23, 23 23 00, 23 31 13, 23 33 00, 23 34 23, 23 37 13, 23 41 00, 23 64 23.13, 23 74 13, 23 81 26, 26 05 29, 26 05 44, 26 08 00, 26 09 41, 26 29 13, 26 43 13, 26 51 19, 26 52 19, 26 56 13, 26 56 19, 27 15 01, 27 51 23, 28 05 13, 28 16 00, 28 46 21, 31 00 00, 31 05 13, 32 13 13, 32 13 73, and 32 17 23.

Response: All but the following specifications have been deleted: 10 14 63, 12 24 14, 31 00 00, 31 05 13, 32 13 13, and 32 17 23 have been provided in this addendum.

DRAWINGS:

ITEM NO. 1 Question 1: Please re-issue sheet GS105 Responsibility Matrix as the current sheet has some areas where it is not legible.

Response: Refer to updated GS105 sheet.

ITEM NO. 2 Question 2: Sheet S202 does not provide respective section cuts that show typical Wide Flange Beam connections to the 12"x30" concrete beam as shown on details 1 & 3 on S401. Please provide information on the required embed plates or connections at these locations where a vertical concrete column (C1) does not occur. Additionally, detail 2 on S402 provides a statement that "wide flange beam and connection are not shown for clarity" please advise where the wide flange beam and connection are shown.

Response: Refer to updated Sheet S202 reference to Sheet S401 Detail 01 & 03 updated. Additionally refer to Sheet S402 Detail 02 updated.

ITEM NO. 3 M-501 – MECHANCIAL ROOF PLAN

1. **CHANGE** – Roof plan updated to show the removal of the Secondary Roof drains and replacement with overflow scuffers.

ITEM NO. 4 P-001 – PLUMBING SCHEDULES AND LEGEND

1. **DELETE** – Secondary Storm Sewer piping from Plumbing legend and symbols chart.
2. **DELETE** – S.R.O.F.D deleted from Cleanout and Drain Schedules

ITEM NO. 5 P-101 – PLUMBING SANITARY PLAN – FOUNDATION

1. **DELETE** – 6” SSD, 6” SDN, 6” S.R.O.F.D, 4” SDN, & 4” S.R.O.F.D. from detail 4 Storm Piping Riser diagram.

ITEM NO. 6 P-201 – PLUMBING SANITARY AND STORM PLAN

1. **DELETE** – 6” SDN, 6” SSD, 6” SSD FR ABV, 4” SDN, 4” SSD, & 4” SSD FR ABV from detail 1 Level 1 – Sanitary and Storm Floor Plan Area D.

ITEM NO. 7 P-202 – PLUMBING ROOF PLAN

1. **DELETE** – 6” S.R.O.F.D. & 4” S.R.O.F.D. from detail 1 Plumbing Roof Plan.

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ITEM NO. 8 R100 – OVERALL CONSTRUCTION ROOF PLAN

1. Removed all storm rated overflow roof drains.
2. Added an overflow through wall scupper at each primary drain.

ITEM NO. 9 R101 – PARTIAL CONSTRUCTION ROOF PLAN

1. Removed all storm rated overflow roof drains.
2. Added an overflow through wall scupper at each primary drain.
3. Revised construction legend to call for overflow scupper referencing new detail in lieu of storm rated overflow drain.

ITEM NO. 10 R200 – ROOF DETAILS

1. Removed storm rated overflow drain detail.
2. Added an overflow through wall scupper detail.

ITEM NO. 11 GS105 - RESPONSIBILITY MATRIX

1. Updated matrix to be more legible

ITEM NO.12 AD202 - PARTIAL ENLARGED DEMOLITION FLOOR PLAN - AREA B

1. Removed annotation reference detail at classroom and IDF room.
2. Added General Notes and notes to classroom.

ITEM NO.13 AE201 - PARTIAL ENLARGED FLOOR PLAN - AREA A

1. Added plan detail annotation

ITEM NO.14 AE204 - PARTIAL ENLARGED FLOOR PLAN - AREA D

1. Added plan detail annotation
2. Revised primary roof drain and deleted overflow drain.

ITEM NO.15 AE206 - PARTIAL ENLARGED ROOF PLAN - AREA D

1. Removed overflow drain and added through wall overflow scupper.
2. Adjusted primary roof drain locations.

ITEM NO.16 AE300 - EXTERIOR ELEVATIONS

1. Updated exterior elevations with the through wall overflow scuppers
2. Added note to clarify expanded metal screen inserts for the existing canopy
3. Added noted to paint the existing canopy and the existing metal panels.

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ITEM NO.17 AE402 - PARTIAL ENLARGED FLOOR PLANS

1. Added interior elevations for millwork and restroom
2. Updated Toilet accessories tags and elevations tags

ITEM NO.18 AE403 - INTERIOR ELEVATIONS

1. Updated millwork sections tags

ITEM NO.19 AE404 - INTERIOR ELEVATIONS

1. Updated millwork sections tags

ITEM NO.20 AE405 - INTERIOR ELEVATIONS

1. Updated millwork sections tags

ITEM NO.21 AE406 - INTERIOR ELEVATIONS

1. Updated toilet accessories tags

ITEM NO.22 AE409 - INTERIOR ELEVATIONS

1. Updated millwork sections tags

ITEM NO.23 AE410 - MILLWORK ELEVATIONS

1. Add sheet in its entirety

ITEM NO.24 AE411 - MILLWORK SECTIONS

1. Add sheet in its entirety

ITEM NO.25 AE502 - BUILDING SECTIONS

1. Updated section detail annotation tag

ITEM NO.26 AE503 - BUILDING SECTIONS

1. Updated section detail annotation tag

ITEM NO.27 AE504 - BUILDING SECTIONS

1. Updated section detail annotation tag

ITEM NO.28 AE505 - BUILDING SECTIONS

1. Updated section detail annotation tag

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ITEM NO.29 AE701 - DOOR & WINDOW FRAME DETAILS

1. Added additional plan details 04, 05, 06, and 07

ITEM NO.30 S101 ABBREVIATION & GENERAL NOTES

1. Update foundation notes

ITEM NO.31 S200 FOUNDATION PLAN AREA D

1. Updated entire foundation plan sheet.

ITEM NO.32 S201 FIRST FLOOR FRAMING PLAN – AREA D

1. Provided enlarged plan details for framing connection reference.
2. Provided additional notes to connecting RIB notes.

ITEM NO.33 S202 ROOF FRAMING PLAN – AREA D

1. Provided enlarged plan details for framing connection reference.
2. Added additional framing note clarification

ITEM NO.34 S301 FOUNDATION SECTIONS AND DETAILS

1. Added Detail “A” for pier reinforcing and tie in

ITEM NO.35 S302 FOUNDATION SECTIONS AND DETAILS

1. Updated Detail 03 and 08 Section.
2. Updated plan Detail “C” and Detail “E”

ITEM NO.36 S303 FOUNDATION SECTIONS AND DETAILS

1. Added marquee signage foundation detail 02
2. Added marquee signage section detail 03

ITEM NO.37 S401 FRAMING SECTIONS AND DETAILS

1. Updated Details 01, 03, and 08 framing connections.

ITEM NO.38 S402 FRAMING SECTIONS AND DETAILS

1. Updated Details 01, and 02 framing connections.

ITEM NO.39 S501 CONC. JOIST SCHEDULE & TYPICAL DETAILS

1. Replace in its entirety.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SPECIFICATIONS:

ITEM NO. 1 Question 1: Please provide PA specifications for proposed new PA system

Response: Refer to Specification Section 27 51 00 Distributed Communications Systems

ITEM NO. 2 23 3000 HVAC AIR DISTRIBUTION

1. **ADD –** 23 30 00-1.05.E. Substitutions are allowed per Division 1 – 01 25 00 Substitution Procedure.
2. **CHANGE –** Specification 23 3000-2.01.A.4 now reads "*Sealants: Utilize UL listed and VOC limit compliant sealants such as United McGill "United Duct Sealer" or Hardcast "Flex-Grip 550", Versa-Grip 181, or Sure-Grip 404. Equivalents are acceptable. Water and fire resistant when dry, compatible with mating materials. Where sealants are used on exposed ductwork, composition shall be designed to prevent bleed-through of finish paint, or sealant shall be pre-painted with a coating impervious to bleed-through.*"

ITEM NO. 3 23 7000 CENTRAL HVAC EQUIPMENT

1. **ADD** – Add entire Specification section.

ITEM NO. 4 26 5119 INTERIOR LED LIGHITNG

1. **ADD** – Add entire Specification section.

ITEM NO. 5 26 5668 LED EXTERIOR LIGHTING

1. **ADD** – Add entire Specification section.

ITEM NO. 6 04 20 01 BRICK VENNER MASONRY

1. REPLACE – Add entire Speciation section.

ITEM NO. 7 10 14 63 Electronic Message Signage

1. ADD – Add entire Speciation section.

ITEM NO. 8 12 24 14 Motorized Window Shades

1. ADD – Add entire Speciation section.

ITEM NO. 9 31 00 00 Earthwork

1. ADD – Add entire Speciation section.

ITEM NO. 10 32 13 73 Sealants and Caulking

1. ADD – Add entire Speciation section.

ITEM NO. 11 32 17 23 Pavement Markings

1. ADD – Add entire Speciation section.

ITEM NO. 12 27 51 00 Distributed Communications System

1. REPLACE – Add entire Speciation section.

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ITEM NO. 13 00 41 12 Proposal Form – Alternates and Unit Pricing (Part 1-C of the CSP)

1. Replace – Modify the unit pricing for the structural casing.

END OF ADDENDUM NO.1

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DALLAS INDEPENDENT SCHOOL DISTRICT
PROCUREMENT SERVICES
ADDENDUM NO. 1
CSP 250086 – Org 208 – Seagoville Elementary School – Addition and Renovation

April 27, 2026

The Purpose of this Addendum No. 1 is to provide updates to what was previously published. These items may be labeled as Updates:

UPDATE 1: AHERA Report included to reference.

Please sign this addendum # 1 and submit along with your copies of the proposal. ALL OTHER PROVISIONS, AND OTHER TERMS AND CONDITIONS REMAIN UNCHANGED. BIDDERS ARE REQUIRED TO ACKNOWLEDGE AND RETURN/SUBMIT A COPY OF THIS ADDENDUM WITH THEIR PROPOSAL.

_____Company Name
_____Bidder's Signature
_____Date

END OF ADDENDUM
NO.1

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SECTION 00 41 12 – PROPOSAL FORM – ALTERNATES AND UNIT PRICING

Name of Contractor	

COMPETITIVE SEALED PROPOSAL (Part 1C)
to
DALLAS INDEPENDENT SCHOOL DISTRICT
FOR THE FOLLOWING WORK:

PART 1. General Information

CSP PACKAGE 250086, consisting of improvements to:

Org #	PROJECT NAME	PROJECT TYPE	ADDRESS
Org 208	Seagoville Elementary School	Addition and Renovation	304 N Kaufman St. Seagoville, TX 75159

PART 2. Proposal Form

2.01 through 2.09

Refer to Specification Section 00 41 11.

2.10 Alternate Price Items

The Contractor proposes the following sums as **additions to** or **deductions from** the Base Price amount for alternates. Failure to quote every item may cause the entire Proposal to be considered non-responsive. If there is no cost change in the alternate(s) pricing, the Contractor should enter "$0.00" as the price for the alternate. Do not make an entry of N/A.
All Alternates must be priced. Alternates are not listed in the order of preference.

Org 208 – Seagoville Elementary School – Addition and Renovation

NOTE FOR ADD ALTERNATE SCOPE: THE COST OF ALL ASSOCIATED TRADES, THAT ARE REQUIRED TO COMPLETE ADD ALTERNATES SCOPE, (LIKE MECHANICAL, ELECTRICAL, ARCHITECTURAL ETC.) SHOULD BE INCLUDED IN THE ADD ALTERNATE LUMP SUM COST AND MUST BE REMOVED FROM THE BASE BID
***REFERENCED SHEETS IN THIS TABLE ARE NOT ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE TO REVIEW ALL RELEVANT SHEETS PROVIDED IN THE CONTRACT DOCUMENTS.**
NOTE: REFER TO HAZMAT SURVEY REPORT. IF ANY OF THE ADD ALTERNATE SCOPE REQUIRES ACM ABATEMENT, THE COST OF THE ACM ABATEMENT TO BE INCLUDED IN THE LUMP SUM COST OF THE ADD ALTERNATE. ACM ABATEMENT COST OF ANY ADD ALTERNATE SCOPE, MUST BE REMOVED FROM THE BASE BID.

No.	* Sheet Number(s)	Alternate Description	Proposer's Add Price	Proposer's Deduct Price
1	C1.12, C1.15, C1.16	Contractor shall include in his bid: • Contractor shall provide a topographic survey centered on the full storm sewer alignment from the drop inlet to the outfall approximately 400LF long with 50' on both sides of the existing 36" storm line to be removed and replaced. The topo shall include a cad file, points file with descriptions and elevations all on the same coordinate system as the original plans. The survey shall be provided by		N/A

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Name of Contractor	

		a licensed professional surveyor in the state of Texas and shall be signed and sealed as required by the State of Texas governing entity. The survey shall include all existing features, grade breaks, trees, flowlines, pipe sizes, manholes, headwalls, retaining walls, fencing material +height…….. within the bounds. The survey shall extend a minimum of 50' downstream of the outfall for the 36" storm line. • Remove and replace 340 LF of 36" Dia. CMP with 36" Dia. HDPE with water tight joints per plan details • Connect to existing drop inlet by coring • Remove, demolish and dispose of existing headwall and replace with 1-36" CH-PW-0 TXDOT headwall as standard and as detailed in the plans • Construct 500 SY of 6" thick grouted rock rip-rap with 12" nominal diameter rock underlaid by filter fabric extending from the headwall outward as approved by the civil engineer. • Contractor to provide solid sod to match existing • The contractor shall remove and replace any existing fencing, retaining walls or other existing improvements with like kind as required to facilitate construction. • Contractor shall remove and replace any vegetation, trees or landscape as required and per city requirements.		

2.11 Unit Prices

The Contractor proposes the following all-inclusive unit prices for the items/tasks. Failure to provide unit pricing for each item may result in the Proposal being deemed as non-responsive. Do not make an entry of N/A. All unit prices must be priced. Unit prices are not listed in order of preference.

Org 208 – Seagoville Elementary School – Addition and Renovation
Note: Change in depth of piers (Deduct unit price to be no less than 95% of add unit price.)

No.	Unit Price Item	ADD per LF	DEDUCT per LF
001	18" Diameter Pier	$	$
002	24" Diameter Pier	$	$
003	30" Diameter Pier	$	$

Note: Pier Casings (Deduct unit price to be no less than 95% of add unit price.)

No.	Unit Price Item	Number of piers with 37 feet of casing to be included in the base bid	ADD per LF	DEDUCT per LF
001	18" Diameter Pier Casings	2	$	$
002	24" Diameter Pier Casings	5	$	$
003	30" Diameter Pier Casings	1	$	$

Note: IF NO CASING IS REQUIRED, 37 FEET PIER CASING CREDIT WILL BE PROCESSED BASED ON THE DEDUCT PRICE LISTED ABOVE

2.12 through 2.14
Refer to Specification Section 00 41 11.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Name of Contractor	

PART 3. Execution

3.01 Proposal Form Execution (Part 1A)

Contractor's Firm Name (legal name)	
Federal Tax I. D. Number	
Contractor's Street Address	
Contractor's Phone Number	
Contractor's Fax Number	
Contractor's Email Address	

SUBMITTED BY:

(Corporation, Partnership, Individual, etc.)

Name of President of Corporation *or*
Name of Principal Owner

Name of Secretary of Corporation
(if applicable)

(Corporation, Partnership, etc.,) is organized under the laws of the State of _____.

Firm: _____

By: _____

Title: _____

Legal Address: _____

_____

Date: _____
Affix Corporation Seal here (if applicable)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 04 2001

BRICK VENEER MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Clay Facing Brick.

B. Reinforcement and Anchorage.

C. Flashings.

D. Installation of Lintels.

E. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 04 0513 - Mortar and Masonry Grout.

B. Section 07 9000 - Joint Sealers: Sealing control and expansion joints.

1.03 REFERENCE STANDARDS

A. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2016.

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

C. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2017a.

D. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2017.

E. BIA Technical Notes No. 28B - Brick Veneer/Steel Stud Walls; 2005.

F. BIA Technical Notes No. 46 - Maintenance of Brick Masonry; 2017.

1.04 SUBMITTALS

A. See Division 1 sections for submittal procedures.

B. Product Data: Provide data for masonry units, fabricated wire reinforcement, and mortar.

C. Samples: Submit four samples of facing brick units to illustrate color, texture, and extremes of color range.

D. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of the contract documents.

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

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

1.06 MOCK-UP

A. Construct a masonry wall as a mock-up panel sized 8 feet long by 6 feet high; include mortar and accessories and structural backup in mock-up.

B. Locate where directed.

C. Mock-up may remain as part of the Work, following approval.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

1.80 FIELD CONDITIONS

A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

PART 2 PRODUCTS

2.01 BRICK UNITS

B. Facing Brick: ASTM C216, Type FBS Smooth Face, Grade SW.
   1. Color and Texture: BRK-1, Blackson Brick, Palmetto Brick – Whitestone Blackson Brick – Brae Barton – 817.874.3194
   2. Nominal Size: As indicated on drawings.
   3. Special Shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.

2.02 MORTAR AND GROUT MATERIALS

A. Mortar and Grout: As specified in Section 04 0513.

2.03 REINFORCEMENT AND ANCHORAGE

A. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, type 304 stainless steel to ASTM A580/580M.
   1. Anchor plates: Not less than 0.075 inch thick, designed for fastening to structural backup through sheathing by two fasteners.
      a. Type 304 stainless steel ASTM A666, ASTM A480/A480M and ASTM A240/A240M.
   2. Wire ties: Manufacturer's standard shape, 0.1875 inch thick, type 304 stainless steel ASTM A580/A580M.
   2. Vertical adjustment: Not less than 3-1/2 inches.
   3. Manufacturers:
      a. Hohmann & Barnard, Inc; HB-200-X: www.h-b.com/#sle.
      b. Wire-Bond; #2411 HCL-711, www.wirebond.com
      c. Substitutions: In accordance with Section 01 6000 Product Requirements.

2.04 FLASHINGS

A. Membrane Non-Asphaltic Flashing Materials:
   1. Composite Polymer Flashings – Self-Adhering. Composite PVC with Elvaloy KEE; 40 mils thick with pressure-sensitive adhesive and release paper.
      a. Manufacturers:
         1) Hohmann & Barnard, Inc; Flex-Flash: www.h-b.com/#sle
         2) Hyload, Inc; Hyload Flashing Membrane: www.hyload.com/#sle
         3) Substitutions: See Section 01 6000 - Product Requirements.

B. Flashing Sealant/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane, or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.

2.05 ACCESSORIES

A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
   1. Manufacturers:
      a. Blok-Lok Limited: www.blok-lok.com/#sle.
      b. Hohmann & Barnard, Inc: www.h-b.com/#sle.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

c. WIRE-BOND: www.wirebond.com/#sle.
d. Substitutions: See Section 01 6000 - Product Requirements.

B. Joint Filler: Closed cell rubber; oversized 50 percent to joint width; self expanding; in maximum lengths available.
1. Manufacturers:
a. Hohmann & Barnard, Inc: www.h-b.com/#sle.
b. WIRE-BOND: www.wirebond.com/#sle.
c. Substitutions: See Section 01 6000 - Product Requirements.

C. Weeps: Molded honeycomb grilles, insect resistant.
1. Basis of Design Manufacturer: Hohmann & Barnard, Inc: www.h-b.com/#sle.
2. Basis of Design Product: Quadro-Vent, manufactured by Hohmann & Barnard, Inc.
a. Size: 3/8” x 3-3/8” x 2-1/2”.
3. Substitutions: See Section 01 6000 - Product Requirements.
2. Color: To be selected by Architect from manufacturer’s full range of colors.

D. Cavity Mortar Control: High density polyethylene mesh panels, sized to thickness of wall cavity, and designed to prevent mortar droppings from clogging weeps and cavity vents and allow proper cavity drainage.
1. Panels to be installed at flashing locations.
2. Basis of Design Manufacturer: Hohmann & Barnard, Inc: www.h-b.com/#sle.
3. Basis of Design Product: Mortar Trap, manufactured by Hohmann & Barnard, Inc.
4. Substitutions: See Section 01 6000 - Product Requirements.

E. Termination Bars: Stainless steel; compatible with membrane and adhesives.
1. Basis of Design Manufacturer: Hohmann & Barnard, Inc: www.h-b.com/#sle.
2. Basis of Design Product: T1 Termination Bar, manufactured by Hohmann & Barnard, Inc.
3. Substitutions: See Section 01 6000 - Product Requirements.

F. Drip Edge: Stainless steel; compatible with membrane and adhesives.
1. Basis of Design Manufacturer: Hohmann & Barnard, Inc: www.h-b.com/#sle.
2. Basis of Design Product: DP Drip Plate, manufactured by Hohmann & Barnard, Inc.
3. Provide factory fabricated stainless steel corners and end dams at inside and outside corners.
4. Substitutions: See Section 01 6000 - Product Requirements.

G. Corners and End Dams: Provide factory fabricated stainless steel corners and end dams at inside and outside corners, below flashing.
1. Basis of Design Manufacturer: Hohmann & Barnard, Inc: www.h-b.com/#sle.

H. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.

I. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive masonry.

B. Verify that related items provided under other sections are properly sized and located.

C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

C. Brick Units:
   1. Bond: As indicated for different locations.
   2. Coursing: Three units and three mortar joints to equal 8 inches.
   3. Mortar Joints: Concave.

3.03 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

B. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.

C. Remove excess mortar as work progresses.

D. Interlock intersections and external corners, except for units laid in stack bond.

E. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.

F. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

G. Isolate top joint of masonry veneer from horizontal structural framing members or support angles with compressible joint filler.

3.04 WEEPS/CAVITY VENTS

A. Install weeps in veneer walls at 24 inches on center horizontally above through-wall flashing, above shelf angles and lintels, and at bottom of walls.

3.05 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

B. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.

C. Install cavity mortar diverter at base of cavity and at other flashing locations as recommended by manufacturer to prevent mortar droppings from blocking weep/cavity vents.

3.06 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

A. Masonry Back-Up: Embed anchors to bond veneer at spacings vertically and horizontally that comply with applicable codes. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.

B. Stud Back-Up: Embed anchors to bond veneer at spacings vertically and horizontally that comply with applicable codes. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center..

3.07 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
   1. Extend flashings full width at such interruptions and at least 6 inches, minimum, into adjacent masonry or turn up at least 8 inches, minimum, to form watertight pan at non-masonry construction.
   2. Remove or cover protrusions or sharp edges that could puncture flashings.
   3. Seal lapped ends and penetrations of flashing before covering with mortar.

B. Terminate flashing up 8 inches minimum on vertical surface of backing:
   1. Install vertical leg of flashing under fluid-applied or self-adhered air/vapor barriers over backing or per manufacturer’s directions., lapping at least 4 inches and terminated with a termination bar.
   2. Anchor vertical leg of flashing into backing with a termination bar and sealant.
   3. Apply cap bead of sealant on top edge of self-adhered flashing.
   4. Adhere top of flashing to stainless steel drip edge.

C. Extend flashings to within 1/4 inch of exterior face of masonry.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

D. Lap end joints of flashings at least 6 inches, minimum, and seal watertight with flashing sealant/adhesive.

3.08 LINTELS

A. Provide lintels where shown and where openings of more than 12 inches for brick-size units and 24 inches for block-size units are shown without structural steel or other supporting lintels.

B. Maintain minimum 8 inch bearing on each side of opening.

C. Provide slip sheet under each bearing end of lintel.

3.09 CONTROL AND EXPANSION JOINTS

A. Do not continue horizontal joint reinforcement through control or expansion joints.

B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.

C. Size control joints as indicated on drawings; if not indicated, 3/4 inch wide and deep.

D. Form expansion joint as detailed on drawings.

3.10 TOLERANCES

A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch.

B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.

C. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.

D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.

E. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch.

F. Maximum clear distance at pipe, conduit and other masonry penetrations: Clear distance at any point not to exceed 1/8 inch from the surface of the penetrating component, when measured at any point.

3.11 CUTTING AND FITTING

A. Cut and fit for pipes, conduit and other masonry penetrations. See 3.10, F of this section for allowable tolerances. Coordinate with other sections of work to provide correct size, shape, and location.

B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.12 CLEANING

A. Remove excess mortar and mortar smears as work progresses.

B. Replace defective mortar. Match adjacent work.

C. Clean soiled surfaces with cleaning solution.

D. Use non-metallic tools in cleaning operations.

3.13 PROTECTION

A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 10 14 63
ELECTRONIC MESSAGE SIGNAGE

PART 1 - GENERAL

1.01 SUBMITTALS

A. Product Data:

1. Manufacturer's specifications and other data needed to prove compliance with specified requirements.
2. Manufacturer's installation instructions and details.
3. Manufacturer’s Warranty

B. Shop Drawings: Manufacturer's complete shop drawings for Architect's approval.

C. Samples: Actual material or color charts showing manufacture's full range of colors and styles for Architect's selection and approval. Anodized aluminum shall be selected from full range of colors, including clear.

PART 2 - PRODUCTS

2.01 ELECTRONIC MARQUEE SIGNS

A. Approved Product/Manufacturer:
1. Basis of Design: Model GS6-40X150-15.85-RGB-2V as manufactured by Daktronics, Inc., www.daktronics.com
2. Or Owner approved equal.

B. Technical Specifications:

1. Line Spacing: 15.85mm
2. Matrix: 20 lines by 125 columns
3. Cabinet Dimensions: As noted on drawings
4. Active Area: As noted on drawings
5. Communication Method: Cellular modem with lifetime data plan
6. Ventilation: Front
7. Service Access: Front Only-Can only access components from front
8. LED Color: RGB- 281 Trillion Colors
9. Configuration: 2V - two one sided displays - same content
10. Frames per Second: 60
11. Cabinet Design: Single Section per face
12. Dimming: Automatic, Scheduled, or Manual
13. Paint: Semi-Gloss Black All Around
14. Readable Viewing Angle: 160 degrees horizontal x 90 degrees vertical

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

15. Optimal Viewing Angle: 140 degrees Horizontal x 70 degrees Vertical

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

16. Weight: Unpackaged 150 lbs per display; Packaged 245 lbs per display
17. Max Power: 670 watts/display
18. Compliance Info: UL,cUL,UL-Energy Verified,FCC
19. Locations: As shown on drawings.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas where electronic marquee signs are to be installed to ensure proper opening sizes and that areas are ready to receive their installation.

B. Ensure proper electrical power and conduit for fiber control is provided for all electronic marquee signs.

3.02 INSTALLATION

A. Install electronic marquee signs and accessories in accordance with printed manufacturer's instructions.

B. Electronic marquee sign installer shall provide licenses or permits required for the installation of this sign including approval of all authorities having jurisdiction.

C. Provide all accessories for a complete installation.

END OF SECTION 10 14 63

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 12 24 14

MOTORIZED WINDOW SHADES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Motorized, roll-up fabric interior window shades including motor operator, controls, and mounting hardware.

1.2 RELATED SECTIONS

A. Section 06100 [06 10 00] – Rough Carpentry: Blocking for support of window shade hardware.

B. Section 07900 [07 90 00] - Joint Sealers: Sealants for perimeter of shade system.

C. Section 09260 [09 21 23] - Gypsum Board Assemblies: Suspended gypsum board ceilings to contain recessed window shade pockets.

D. Section 09510 [09 51 23] - Acoustical Tile Ceilings: Suspended acoustical panel ceilings to contain recessed window shade pockets.

E. Section 11132 [11 52 13] - Motorized Projection Screens: Motorized projection screens to be interfaced with shade controls.

F. Section 11132 [11 52 13] - Motorized Projector Lifts: Motorized projector lifts and mounts to be interfaced with shade controls.

G. Division 16 [26] - Electrical: Electrical supply, conduit, and wiring for motorized window shades.

1.3 REFERENCES

A. NFPA 70 - National Electrical Code.

B. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.

C. ANSI/WCMA A100.1-2022.

1.4 SUBMITTALS

A. Submit under provisions of Section 01330 - Submittal Procedures:

B. Product Data: Manufacturer's data sheets on each product specified, including:
   1. Preparation instructions and recommendations.
   2. Installation and maintenance instructions.
   3. Styles, material descriptions, dimensions of individual components, profiles, features, finishes and operating instructions.
   4. Storage and handling requirements and recommendations.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5. Mounting details and installation methods.
6. Typical wiring diagrams including integration of motor controllers with building management system, audiovisual and lighting control systems as applicable.

C. Shop Drawings: Plans, elevations, sections, product details, installation details, operational clearances, wiring diagrams and relationship to adjacent work. Location of switches shall be shown on plans and coordinated with other trades.

D. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings, field verified window dimensions, quantities, type of shade, controls, fabric, and color, and include opening sizes and key to typical mounting details.

E. Selection Samples: For each finish product specified, two complete sets of shade cloth options and aluminum finish color samples representing manufacturer's full range of available colors and patterns.

F. Verification Samples: For each finish product specified, two complete sets of shade components, unassembled, demonstrating compliance with specified requirements. Shade fabric sample and aluminum finish sample as selected, representing actual product, color, and patterns. Mark face of material to indicate interior faces.

G. Maintenance Data: Methods for maintaining roller shades, precautions regarding cleaning materials and methods, instructions for operating hardware and controls.

H. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Obtain roller shades through one source from a single manufacturer with a minimum of twenty years experience in manufacturing products comparable to those specified in this section. Manufacturers that do not meet the required experience requirements must submit life cycle test data showing minimum 2000 complete operational cycles for each year of warranty showing no failure and that shade remains fit for use as an operable shade).

B. NFPA Flame-Test: Passes NFPA 701. Materials tested shall be identical to products proposed for use. Show complete manufacturer data (name,location,contact) and certification from manufacturer that the fabrics sourced for this project comply with the test data provided.

C. Mock-Up: Provide a mock-up of one of each type roller shade assembly specified for evaluation of mounting, appearance and accessories.
1. Locate mock-up in window(s) designated by Architect.
2. Do not proceed with remaining work until mock-up is accepted by Architect.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver window shades until building is enclosed and construction within spaces where shades will be installed is substantially complete.

B. Deliver products in manufacturer's original, unopened, undamaged containers with labels intact.

C. Label containers and shades according to Window Shade Schedule.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

D. Store products in manufacturer's unopened packaging until ready for installation.

1.7 SEQUENCING

A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.

B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 PROJECT CONDITIONS

A. Install roller shades after finish work and ambient temperature, humidity and ventilation conditions are maintained at levels recommended for project upon completion.

1.9 WARRANTY

A. Hardware and Shade Fabric: Draper’s standard twenty-five year limited warranty.

B. Motors and Controls: Draper’s standard five year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Draper, Inc. Sales offices and manufacturing facility located at: 411 S. Pearl P. O. Box 425; Spiceland, IN 47385-0425. ASD. Toll Free Tel: 800-238-7999; Tel: 765-987-7999; Fax: 866-637-5611; Web: www.draperinc.com.

B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 INTERMEDIATE SIZE MOTORIZED WINDOW SHADES

A. Type: Motorized vertical roll-up, fabric, window shade with motors, controls, mounting brackets, and other components necessary for complete installation; Motorized FlexShade® 2 as manufactured by Draper, Inc.
   1. Mounting brackets.
   2. Endcaps and fascia.
   3. Endcaps and ceiling/wall headbox.
   4. Endcaps with pocket headbox.

B. Shade Motor and Control System
   1. FlexShade 2 120V AC motor. Single phase, 60 HZ, instantly reversible, lifetime lubricated, and equipped with internal thermal overload protector, electric brake, and pre-set accessible limit switches. Tubular motor concealed inside each shade roller tube.
   2. FlexShade 2 Quiet 120V AC motor. Operates at 44 Db measured 3 feet from the motor. Makes no audible clicks when motor stops or starts. Tubular motor concealed inside each shade roller tube.
      a. Individual Control:

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1) Wall Switch - Toggle three position wall switch.

b. Group Control:
1) 1 Motor Isolating Relay (1ISO) – One ISO relay per motor. Allows 110-120V group switching. Allows for up to 12 motors on one double throw switch. Input Voltage: 120V AC/60Hz. Output Voltage: 120V AC/60Hz. Max Output Current: 4.0 Amps.

c. Individual and Group Control:
1) IGC4N1. Individual and Group control of up to four motors with up to three intermediate positions per motor.

3. Roller: Size–4 inch (102 mm) or 5 inch (127 mm) O.D. steel tube. Size at manufacturer's discretion.
4. Roller Idler Assembly: Zinc-plated steel shaft supported by roller bearings in an aluminum housing.
5. Slat: 13/16" aluminum dowel, encased in heat seamed hem.
6. Mounting
a. Endcaps: 1028 steel stamping. Complete with adapter roller bracket. Installs to wall, ceiling, or jamb. Accepts fascia or headbox.
1) Finish: Custom powder coat as selected by the Architect.
b. Brackets: 1018 plated steel stamping, suitable for mounting to wall, ceiling, or jamb. Brackets do not require additional adapters.
c. Fascia: 6½ inch x 6½ inch (165 x 165 mm) square cover of extruded aluminum, .125 inch (3.175 mm) wall.
1) Attachment: Snaps onto endcaps without requiring exposed fasteners of any kind.
2) Finish: Selected from Manufacturers standard range.
3) Finish: Custom powder coat as selected by the Architect.
d. Headbox Ceiling/Wall Style: 6-5/8" x 6-5/8" (168 x 168 mm) square fascia and L-shaped back/top cover to be fabricated of extruded aluminum:
1) Finish: Custom powder coat as selected by the Architect.
e. Pocket headbox constructed of extruded aluminum. Bottom of headbox fully enclosed except for slot allowing fabric passage. Bottom closure panel shall be extruded aluminum, finished white, and may be removed manually for access to roller and drive unit. Aluminum endplates with integrated steel brackets for suspended mounting shall be fastened to extruded headbox with thread-cutting screws.
1) Ceiling Tile Flange: 12 foot (366 cm) extruded aluminum, finished white. Attaches to pocket headbox. Hardware for attachment to headbox included.
2) Endcap Ceiling Tile Flange: Extruded aluminum, finished white. Available on one or both endcaps.

2.3 FABRIC

A. Light-Filtering Fabrics
1. PVC Coated Fiberglass
a. Basketweave
1) E Screen 5% by Mermet: PVC coated fiberglass yarn woven in 2 by 2 basketweave. Fire rating: NFPA 701-10 TM#1, California U.S. Title 19, CAN/ULC-S109-03 Small & Large Flame Test. Environmental Benefits: Certified to UL GREENGUARD and GREENGUARD Gold standards for low chemical emissions into indoor air during product usage. RoHS compliant – lead free. Bacterial and fungal resistance: ASTM E 2180, ASTM G21. Average 5 percent open, .016 inches thick, 10.7 oz/square yard.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

B. Color and pattern: As selected by Architect from manufacturer's standard range.

C. Custom Printed Graphics: As submitted to manufacturer in accordance with manufacturer’s guidelines.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Coordinate requirements for blocking and structural supports to ensure adequate means for installation of window shades.

B. Coordinate requirements for blocking, construction of shade pockets, and structural supports to ensure adequate means for installation of window shades.

C. Coordinate installation of recessed shade pockets with construction of suspended acoustical panel ceilings specified in Section 09510.

D. Coordinate installation of recessed shade pockets with construction of suspended gypsum board ceilings specified in Section 09260.

E. Coordinate requirements for power supply conduit, and wiring required for window shade motors and controls.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install roller shades level, plumb, square, and true. Allow proper clearances for window operation hardware.

C. Shade pockets:
1. Install shade pockets prior to installation of suspended ceiling system. Attach to supporting structure with screws through top of pocket at 24 inches (610 mm) minimum centers.
2. Shades in storm shelter will need to penetrate steel channel as windows are storm rated. Provide correct mounting screws that will penetrate steel channel.
3. Install shade pockets in conjunction with installation of suspended ceiling system. Attach to supporting structure with screws through top of pocket at 24 inches (610 mm) minimum centers.
4. Install corner pieces securely and in alignment with pockets.
5. Install pocket ends securely and in alignment with pockets.
6. After interior construction is essentially complete, install shade and operating mechanism in pocket.

D. Position shades level, plumb, and at proper height relative to adjacent construction. Secure with fasteners recommended by manufacturer.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

3.4 TESTING AND DEMONSTRATION

A. Test motorized window shades to verify that controls, limit switches, interface to other building systems, and other operating components are functional. Correct deficiencies.

B. Test window shades to verify that operating mechanism, fabric retainer, and other operating components are functional. Correct deficiencies.
   1. Motorized operating mechanism.

C. Demonstrate operation of shades to Owner's designated representatives.

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 SCHEDULES

A. Refer to Drawings for shade types and locations.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 23 3000

HVAC AIR DISTRIBUTION

PART 1 - GENERAL

1.01 SUMMARY

A. Related Documents: Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Work Included:

1. HVAC Ductwork
2. Air Duct Accessories
3. HVAC Fans
4. Special Exhaust Systems
5. Air Terminal Units
6. Air Outlets and Inlets
7. Wall Louvers
8. Brick Vents
9. Roof Vents
10. Ventilation Hoods

C. Related Sections:

1. Section 01 91 13 -- General Commissioning Requirements
2. Section 23 00 10 – HVAC General Requirements
3. Section 23 05 00 – Common Work Results for HVAC
4. Section 23 05 48 – Vibration and Seismic Controls for HVAC Equipment and Piping
5. Section 23 05 53 – Identification for HVAC Piping and Equipment
6. Section 23 07 00 – HVAC Insulation
7. Section 23 05 93 – Testing, Adjusting, and Balancing for HVAC
8. Section 23 09 00 – Instrumentation and Control for HVAC
9. Section 23 80 00 – Decentralized HVAC Equipment

1.02 REFERENCES:

A. General: The following standards or codes form a part of this specification to the extent indicated by the reference thereto.

B. Air Movement and Comfort Association (AMCA):

Bulletin 210, Standard Test Code for Air Moving Devices

Standard 511, Air Performance and Water Penetration

C. American Society for Testing and Materials (ASTM):

ASTM A 525 General Requirements for Steel Sheet, Zinc Coated (Galvanized) By the Hot-Dip Process

ASTM A 527 Steel Sheet, Zinc Coated (Galvanized) By the Hot-Dip Process, Lock-Forming Quality

ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

ASTM C 411 Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation

D. Underwriters Laboratories, Inc. (UL)

Standard 723 Tests for Surface Burning Characteristics of Building Materials

E. Sheet Metal and Air Conditioning Contractors' Association (SMACNA)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Duct Construction Standards (Latest Edition)

HVAC Air Duct Leakage Test Manual (Latest Edition)

F. National Fire Protection Association (NFPA):
   1. Standard 90A – Standard for the Installation of Air Conditioning and Ventilating Systems
   2. Standard 90B – Standard for the installation of Warm Air Heating and Air Conditioning Systems
   3. Standard 96 – Standard for the Installation of Equipment for the Removal of Smoke and Grease – Laden Vapors from Commercial Cooking Equipment
   4. Standard 255 – Method of Test of Surface Burning Characteristics of Building Materials

1.03 DEFINITIONS:

A. Duct Sizes: Sizes shown on Drawings are actual sheet metal dimensions. For acoustically lined ducts, sizes indicated are actual sheet metal sizes allowing for 1" thick acoustic lining. For double wall ductwork, sizes indicated are inside dimensions.

B. Low Pressure Ductwork: Static pressure rating less than 2" w.g. and velocities less than 2000 fpm.

C. Medium Pressure Ductwork: Static pressure rating less than 6" w.g. and velocities greater than 2000 fpm and all ductwork upstream of VAV boxes.

D. High Pressure Ductwork: Static pressure rating over 6" w.g. and velocities greater than 2000 fpm.

1.04 COMMISSIONING OF HVAC SYSTEMS:

A. The Contractor shall provide contact information to the Commissioning Agent indicated in Division 1 for all major items of Equipment.

B. Provide additional submittal copy of major equipment for Commissioning Agent specified in Division 1.

1.05 SUBMITTALS:

A. Submit shop drawings, product data and samples in accordance with Division 1 and Section 23 00 10.

B. Shop drawings, diagrams, catalog data and such other data necessary to fully describe and substantiate compliance with these specifications shall be submitted for all equipment and materials marked with notation set forth in Section 23 00 10.

C. Operation and maintenance data shall be submitted in accordance with Division1, for all items of equipment and materials marked with notation set forth in Section 23 01 00.

D. All fans for use with Variable Frequency Drives (VFD) shall have critical speed and multiples of critical speed indicated on each submittal.

E. Substitutions are allowed per Division 1 – 01 25 00 Substitution Procedure.

1.06 SPARE PARTS

A. Each fan powered terminal box and make-up air fan shall be provided with 3 sets of filters. At end of construction each unit shall be provided with a clean filter and one set shall be turned over to the Owner as spares.

B. Each filter grille shall be provided with 3 sets of filters. At end of construction each unit shall be provided with a clean filter and one set shall be turned over to the Owner as spares.

C. Each belt driven piece of equipment shall be provided with one spare set of belts to be turned over to the Owner at the end of construction.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

PART 2 - PRODUCTS

2.01 HVAC DUCTWORK

A. Materials:

1. Sheet Metal Ducts: Trademarked galvanized steel, lock forming quality, having zinc coating of 0.90 ounces per square foot for each side (G90, ASTM A653 and A653M).
2. All ductwork without external insulation, exposed to view in finished, non-utility spaces shall have paint-grip or galvaneal coating to accept field painting.
3. Fasteners: Use rivets and bolts throughout; sheet metal screws may be used on low pressure ducts.
4. Sealants: Utilize UL listed and VOC limit compliant sealants such as United McGill “United Duct Sealer” or Hardcast “Flex-Grip 550, Versa-Grip 181, or Sure-Grip 404”. Equivalents are acceptable. Water and fire resistant when dry, compatible with mating materials. Where sealants are used on exposed ductwork, composition shall be designed to prevent bleed-through of finish paint, or sealant shall be pre-painted with a coating impervious to bleed-through.
5. All duct and accessory materials shall have a composite flame spread rating not exceeding 25, and a smoke developed rating not exceeding 50 as tested under procedure ASTM E-84-75, NFPA 255 and UL 723. Duct coverings and linings shall not flame, glow, smolder or smoke when tested in accordance with ASTM C411.
6. (Fibrous Glass Ducts: 1 inch thick rigid fibrous glass with aluminum foil, glass scrim and kraft paper jacket vapor barrier, 0.23 btu/in./sq.ft./°F./hr. maximum “K” value at 75°F.)
7. (PVC Ducts: Rectangular duct will be formed from Type I Grade I PVC extruded sheet material. Corners will be heat bent and seams thermal fused where applicable. Where heat bending and thermal fusion is not possible, corner welding with PVC filler rod will be utilized. Where the developed length is 120" or less, 3/16" material will be used. Above 120", 1/4 sheet will be used. Both 45° and 90° elbows will be 2 pieces, square throat. The 90° elbows will have turning vanes made from PVC extruded duct material. Transitions will be tapered and will be the same material thickness as the duct. They will be concentric unless otherwise noted. Branches will enter main run at 45° angle only unless otherwise specified. Couplings will be sleeve type only. Overall length is 6" and will be the same thickness as the duct. Flanges for 3/16" wall duct will be 1-1/2" x 3/16" PVC Type I angle. Flanges for 1/4" wall duct, 2" x 1/4" Type I PVC angle will be used. Bolt holes will be 5/16" diameter on approximate 4" centers. Bolting, gaskets and flexible connections will be the same as the round duct standards. End caps and access panels will be the same as the round duct standards. Reinforcement, if required, will be per SMACNA Fourth Edition, 2020, for the particular water gauge specified. Joining can also be accomplished with the bell (coupling) and spigot method, flanging or field welding.)

B. Fabrication:

1. All ductwork shall conform accurately to the dimensions indicated on plans and shall be fabricated and installed in accordance with ASHRAE Guide and Data Books and SMACNA Duct Construction Standards, except that sheet metal gauges and zinc coating shall not be lighter than specified under this Section.
2. All rectangular sheet metal ducts over 18” wide shall be cross-broken for rigidity.
3. Reinforcing angles, stiffeners and tie-rods for all sheet metal ducts shall be provided where required to prevent sagging, buckling, and vibration in accordance with the latest SMACNA Duct Construction Standards Publication. Reinforcing for flat oval duct shall be provided as specified for rectangular duct in accordance with the latest SMACNA Duct Construction Standards Publication.
4. Lap metal ducts in direction of air flow. Hammer down edges and slips to leave smooth interior surface.
5. Where square elbows are indicated on the Drawings, curved elbows may be used provided the centerline radius is not less than 1-1/2 times the width of duct and as space allows.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

6. Provide turning vanes in all square elbows. Provide air foil type turning vanes on all ducts more than 24" wide. Mitered round elbows (2-piece) shall not be used unless specifically indicated. Mitered round elbows shall have airfoil turning vanes.
7. Transitions shall be made with a slope ratio of 4:1, except at equipment divergence and convergence shall not exceed a slope ratio of 3:1.
8. All duct joints and seams shall be mechanically tight, and sealed with sealant or gaskets to provide a substantially airtight system.
9. All duct liners shall be installed using fasteners in strict accordance with SMACNA Duct Construction Standards. Fastener pins shall be clinched pin type or welded pin type. The use of adhesive type pins is not acceptable. All liners shall have transverse edges coated with adhesive, all corners lapped and butted or folded.
10. Duct liners at fan discharges shall be lapped on outside of fan discharge flange or shall have metal nosing on leading edge. Fastening pin length shall be equal to liner thickness.
11. Provide easements where low pressure ductwork conflicts with piping and structure. Where easement exceeds 10% duct area, split into two ducts maintaining original duct area.
12. Plenums and Casings (Site Fabricated Units) [S]: Construct of galvanized steel panels joined by standing seams on outside of casing. Rivet or bolt all seams and joints on approximately 6" centers and seal with sealant. Reinforce with steel angles and provide diagonal bracing. Access doors shall be 36" x 18" with frame welded to plenum, three brass hinges and three brass tension fasteners operable from either side of door.
13. (Fibrous glass ductwork may be substituted for internally or externally insulated or uninsulated low pressure sheet metal ductwork when approved by Engineer.)
14. Ductwork associated with clothes dryer exhaust shall have smooth interior finish with joints running in the direction of airflow. (Ductwork associated with commercial clothes dryer shall be installed with a minimum 6 inches to combustible materials.)
15. All radiused elbows shall have centerline radius (R = 1.5 D), and shall be stamped or pressed smooth radius or minimum five gore type. Adjustable gore type fittings are not acceptable.
16. All locking regulator shall be Rossi Everlock, Elgen Super Standoff, or Windgate Sure-Loc HD, unless noted otherwise.

C. Low Pressure Ducts:
   1. Sheet Metal Gauges:
      a. Rectangular Ducts:

Max. Dimen., In.	Min. Gauge
Up to 30	24
31 to 54	22
55 to 84	20
85 and Over	18

      b. Round Ducts:

Duct Diameter, In.	Min. Gauge
Up to 24	26
25 to 30	24
31 to 36	22
37 to 50	20
51 to 60	18
61 to 84	16

D. Medium and High Pressure Ducts:
   1. Sheet Metal Gauges:
      a. Rectangular Ducts:

Max. Dimen., In.	Min. Gauge
Up to 18	22
19 to 48	20
49 to 72	18
73 to 96	16

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

97 to 144	14

b. Round Ducts (Factory Made With Spiral Lock Seams equal to United McGill):

Duct Diameter, In.	Min. Gauge
Up to 26	24
28 to 36	22
38 to 50	20
51 to 60	18
61 and Over	16

c. Flat-Oval Ducts (Factory Made With Spiral Lock Seams equal to United McGill):

Max. Width, In.	Min. Gauge
9 to 24	24
25 to 48	22
49 to 70	20
71 and Over	18

2. Fittings shall be minimum 20 gauge on flat oval, but not less than 2 gauges heavier than ductwork in which it is installed on round and flat oval. Fittings for duct sizes 5" round and below may be minimum 24 gauge.
3. All take-offs shall be full body pre-manufactured 45° conical lateral type or alternate pre-manufactured fitting with equivalent loss coefficient. The use of field-installed or factory lateral taps or manifolds is not acceptable.
4. All elbows shall have centerline radius (R = 1.5 D), and shall be stamped or pressed smooth radius or minimum five gore type. Adjustable gore type fittings are not acceptable.

E. Flexible Ducts [S]: Flexible Ducts shall be Flexmaster Type 1M or Thermaflex type M-KE. Duct shall incorporate acoustic rated CPE or PE inner liner, 1" thick fiberglass insulation, and reinforced metalized vapor barrier. Maximum C factor shall be 0.24 btu/hr/sq.ft./°F at 75°F mean temperature. Duct shall have a working pressure of not less than 6 inches w.g. for positive pressure and 1 inch w.g. for negative pressure and suitable for velocities up to 4000 fpm. Vapor transmission shall be less than 0.05 Perm when tested in accordance with ASTM E96, Procedure A. The entire assembly shall be rated and marked as UL 181 Class 1. Flame Spread Rating shall not exceed 25 and Smoke Developed Rating shall not exceed 50 when tested in accordance with ASTM E-84-75, NFPA 255, and UL 723. Minimum duct insertion loss at 2500 fpm for a 10-foot length of straight duct shall be as listed below when tested in accordance with ADC FD-72 R1

Duct Insertion Loss, dB

Octave Band	2	3	4	5	6
Frequency, Hz	125	250	500	1000	2000
6 inch duct	7	19	34	37	38
8 inch duct	8	13	29	35	36
12 inch duct	20	26	27	33	26

(Flexible Ducts [S]: Mechanically corrugated single ply aluminum with continuous watertight lock seams, self-supporting with 1" thick fiber glass insulation, maximum C factor of 0.23 btu/hr./sq.ft./°F at 75°F mean temperature, and minimum 4 mil seamless vapor barrier jacket, reinforced aluminum foil, metalized polyester laminate. Duct shall have a working pressure of not less than 8 inches w.g. and suitable for velocities up to 5000 fpm. The entire assembly shall be rated and marked as UL 181 Class 1.)

F. Special Ducts:

Underfloor ducts shall be Monroe PVS, plastic coated steel duct. The underfloor duct shall have 4 X 1 coating, 4 mils of PVS coating on the outside and 1 mil PVS coating on the inside. All joints and fittings are to be constructed of PVS material. All sections shall be joined with sleeve sections attached with sheet metal screws. All joints shall be effectively sealed with PVS sealant and PVS tape to provide water tight connections. A PVS sealant shall be applied to any and all damaged or otherwise unprotected areas such as scratches, sheet metal screws, etc. to

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

provide a total protected duct system. All underground duct systems shall be sloped to a drainage point as indicated on Drawings.)

1. All kitchen exhaust ducts carrying grease laden air (and all supply ducts located within 18" of a type I exhaust hood) shall be provided as indicated below:
    a. Where fire-rated enclosures are required: Grease ducts shall be factory fabricated, double wall, insulated grease duct [S] as manufactured by Metal-Fab, Metalbestos, or Hart & Cooley. Duct shall be suitable for 0" clearance to combustibles. Duct shall consist of minimum 0.035" thick stainless steel inner wall, minimum 0.024" aluminized steel outer wall, and high temperature ceramic insulation. Duct shall be classified under UL 1978 and UL 2221 and shall comply with NFPA-96. Duct system shall be one or two hour rated as required by VUSBC. Grease duct system shall include all supports, fittings, roof penetrations, expansion joints, etc. as necessary for a full and proper installation. Grease duct shall be installed in strict accordance with manufacturer's instructions. Shop drawing shall include a sketch showing the assembly of all sections.
    b. Where fire-rated enclosures are not required: Grease duct shall be field fabricated ductwork constructed from 16 gauge black sheet steel with all joints, seams and penetrations welded liquidtight. Mechanical fasteners shall not be used for assembly or support where such fasteners could penetrate the duct walls. Ducts shall run continuous from the hood connection to the exhaust fan connection a minimum of 40 inches above the roof. Ductwork shall be tested prior to installing any coverings. Two layers of fire wrap [S] shall be applied to the outside of the ducts. Fire wrap shall be Firemaster FastWrap XL as manufactured by Morgan Thermal Ceramics or equivalent by 3M or Unifrax. Fire wrap shall be 1-½ inches thick and shall be listed and labeled by UL in accordance with ASTM E 2336 for zero clearance to combustibles. Listed and labeled liquidtight access doors shall be provided by the fire wrap manufacturer and installed in the side of each horizontal section of duct for cleaning purposes. Access doors shall be a minimum of 12 inches and as otherwise outlined in the applicable code. Access door spacing shall not exceed 20 feet. Prior to Substantial Completion, the Contractor shall provide a letter from the fire wrap manufacturer stating that the fire wrap and grease duct access doors have been installed in accordance with manufacturer's installation instructions and that installation complies with the UL listing.
2. Watertight ducts shall be fabricated from copper sheets with soldered seams and joints or stainless steel sheets with brazed seams and joints. Thickness of material and fabrication shall be as required for low pressure systems except that thickness of material shall be suitable for soldering, brazing or welding without deformation or burning of the metal. All joints shall be watertight and low points shall be provided with drain tubes. Provide waterstops with drain tubes where indicated on plans.
3. Fume Exhaust Ducts: All ducts from fume hoods to their terminal point shall be stainless steel with welded seams and joints. Material thickness and fabrication shall conform to the requirement prescribed for low pressure ducts. Provide pressure test port at fan suction with positive closure.
4. Darkroom Hood Exhaust Ducts: All ducts from hoods to their terminal point shall be PVC. Material thickness and fabrication shall conform to the requirement prescribed hereinbefore.
5. All exposed round and flat oval ductwork (and concealed premanufactured ductwork indicated to be lined) shall be double-walled internally insulated duct with perforated internal liner, 1" acoustic insulation and paint grip or galvaneal coating on exterior. Provide all fittings and adapters to match lined duct. Insulation shall have K factor of 0.27 btu/hr./sq.ft./in./°F at 75°F mean temperature and minimum noise attenuation of 1.54 dB/ft. at a center frequency of 1000 Hz and 2000 fpm in 24" diameter duct. Ductwork shall be United McGill Acousti-K27 or approved equal. Joint mastic shall be totally concealed within fitting couplings.
6. (All exposed round and flat oval ductwork, concealed premanufactured ductwork indicated to be lined, all medium pressure supply ductwork (round, flat oval and rectangular)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

indicated to be lined and all return ductwork exposed outside shall be double-walled internally insulated duct with perforated internal liner, 1" acoustic insulation and paint grip or galvaneal coating on exterior. Supply ductwork exposed outside shall be double-walled internally insulated duct with perforated internal liner, 2" thick acoustic insulation and paint grip or galvaneal coating on exterior. Provide all fittings and adapters to match lined duct. Insulation shall have K factor of 0.27 btu/hr./sq.ft./in./°F at 75°F mean temperature and minimum noise attenuation of 1.54 dB/ft. at a center frequency of 1000 Hz and 2000 fpm in 24" diameter duct. Ductwork shall be United McGill Acousti-K27 or approved equal. Joint mastic shall be totally concealed within fitting couplings. Refer to paragraph 2.02 O. for exterior exposed ductwork finish requirements.)

7. Provide a 4-inch diameter galvanized steel exhaust duct for all residential clothes dryers. Duct shall discharge outside the building and terminate with a weatherproof wall cap. Connection at wall shall be a recessed noncombustible metal wall box or wall receptacle. Coordinate exact location of wall box with dryer provided for flush installation of dryer to wall. Coordinate location with Owner where dryer is not in Contract. Wall box shall have paintable surface, shall have hidden nailing flanges, contain gas line connection when gas dryer is provided.
8. Where residential clothes dryer ducts are indicated to terminate through a flat roof, Contractor shall provide and install a roof jack, similar to the in-o-vate technologies DJK486U, and a minimum 12" tall insulated roof curb as specified for fans. Where residential clothes dryer ducts are indicated to terminate though a sloped roof, Contractor shall provide and install a roof jack, similar to in-o-vate technologies DJK486.

2.02 AIR DUCT ACCESSORIES

A. Access Doors:

1. Doors for low pressure rectangular ductwork shall be galvanized steel, 20 gauge rigid type, 12" X 16" minimum size unless noted otherwise, except where size of duct will not accommodate this size, they shall be as large as possible. Door shall have gasket, two hinges, and two compression latches with outside and inside handles. Provide insulated doors where installed in insulated ductwork.
2. Doors for round or flat-oval low, medium or high pressure ductwork shall be a complete factory mounted, duct section/access door assembly constructed of minimum 20 gauge galvanized steel. Access door shall match within two inches the diameter of duct and shall be complete with gasket, insulated door with handle, compression clips and chain retainer.

B. Fire dampers [S] shall be provided in accordance with the National Fire Protection Association Standard No. 90A. Dampers shall be UL 555 approved (for dynamic air systems), factory fabricated and assembled, and shall consist of 24 gauge, or heavier, interlocking curtain or rotating damper blades, fusible link and linkage, and 22 gauge, or heavier, galvanized steel frame. Dampers shall be tested for closure under airflow conditions and shall be labeled for maximum airflow and direction of flow. Where fire dampers are located in walls behind sidewall grilles, the fire damper shall be designed and UL listed for flush installation of the grille. Where fire dampers are located in watertight ductwork, fire dampers shall be constructed of 304 stainless steel; all duct/sleeve connections shall be sealed watertight with sealant in accordance with the terms of the UL Listing. Entire unit shall be securely anchored in structure where opening is made. Free area of fire damper for medium/high velocity ducts shall equal the cross section area of duct in which installed. Free area of fire damper for conventional velocity ducts shall be not less than 75% of the cross section area of duct in which installed. Dynamic fire dampers shall be rated for velocities up to 2000 fpm and pressures up to 4.0 in. wg. Fire dampers shall be furnished to the job site with instructions detailing UL approved installation method.

C. Radiation (Fire) Dampers [S] shall be UL 555C Classified for use in U.L. Fire Rated Floor/Ceiling and Roof/Ceiling assemblies to provide fire and heat protection where HVAC ducts and air devices penetrate the ceiling portion (rated gypsum board or rated acoustic tile) of the assembly or the rated portion of wooden joist protection for a Through Ceiling Membrane Penetration. Ceiling Radiation Dampers shall be selected in accordance with the size of the

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

opening to be protected. Damper units shall consist of a minimum 24 gauge galvanized steel frame and minimum 24 gauge blades as required for the area of the opening. Blades shall be protected with U.L. Classified insulation as required and shall contain no asbestos. Fusible links shall be rated for 165°F. Where the ceiling opening is larger than the ceiling radiation damper, a U.L. classified insulating blanket shall be provided to cover the entire space between the radiation damper and the ceiling system. Ceiling Radiation Dampers shall be furnished to the job site with instructions detailing U.L. approved installation method.

D. Gravity dampers shall be Airline type CBD counter balanced back draft damper constructed of felt edged aluminum blades. Set to open at .10" H2O. Maximum leakage rate shall be 20 cfm/ft2 at 1.0 inch water gauge when tested in accordance with AMCA 500D.

E. Dampers:
   1. General:
      a. Fabricate of galvanized steel.
      b. Where manual dampers occur behind or above finished portions of hard ceilings or walls, a remote cable operated damper by Young Regulator Co. shall be provided.
      c. Where dampers are located in accessible spaces, operators shall be locking type quadrant operators. Quadrant operators shall be installed on 1-1/2" high 4 bend galvanized steel bracket so that duct insulation may be extended and sealed under the quadrant operator.
      d. End of damper rod on each damper shall be grooved to show damper position.

F. Manual Volume Dampers shall be Ruskin model MD35, opposed blade multi-louver (single blade for dampers under 11" nominal) construction 16 gauge minimum with molded synthetic or stainless steel bearings, galvanized channel iron frame and maximum blade width of 8 inches. Axles shall be positively locked into blades to prevent slippage or loosening. Damper blades shall be interlocking type with linkage, control shaft, and standoff locking regulator (Rossi Everlock, Elgen Super Standoff, or Windgate Sure-Loc HD).

G. Rectangular branch take-off connections from mains shall be made using 45 degree entry fittings per SMACNA 1995 figure 2-6. Grille and register connections to mains shall be made using 45 degree entry fittings where space allows. Where diffuser, register or grille is located too close to the main, air deflectors shall be used. Air deflectors shall be factory fabricated. Adjustable deflectors shall be complete with worm gear operator when behind grilles, an extension rod and concealed regulator when above plaster ceilings, or self-locking lever type regulator when accessible. Locking regulator shall be Rossi Everlock, Elgen Super Standoff, or Windgate Sure-Loc HD.

H. Instrument Test Holes: Holes, with patches, in ducts and plenums shall be provided where directed or necessary for using pitot tubes for taking air measurements for balancing the air systems. At locations where ducts or plenums are insulated and on all medium and high pressure ductwork die cast collars with threaded neoprene caps shall be provided.

I. Apparatus Connections: At points where sheet metal connections are made to fans or where ducts of dissimilar metal are connected, provide a flexible connection of neoprene coated canvas of sufficient length to eliminate transmission of vibration. Flexible connections shall be securely fastened and air tight.

J. Duct Sleeves: Provide sleeved openings for all ducts, except where sleeves are furnished as part of a listed fire damper, smoke damper, or combination fire-smoke damper assembly. Sleeves for wall openings shall be 1 inch larger than the overall duct dimensions. Sleeves for floor openings shall be 1/4 inch larger than the overall duct dimensions. Fill the annular space between the duct or duct insulation and the sleeve full depth with mineral-fiber rope insulation. Where penetrations occur in assemblies required to maintain a fire-resistance rating, smoke resistance, or both, provide penetration-sealing materials and installation methods required to maintain the rating and integrity of the construction. Seal penetrations through corridor walls, smoke partitions, and draftstop partitions as required to maintain the integrity of the construction. Where fire dampers or combination fire-smoke dampers are required, provide

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

sleeves sized to suit the damper assembly and install dampers in accordance with the damper manufacturer's listed installation instructions and applicable listing requirements. Do not install packing, sealant, or firestopping materials at damper sleeves unless specifically permitted by the listed installation. In finished areas, provide flanges at each opening; flanges shall be constructed of 20-gauge galvanized sheet metal and shall be not less than 3 inches wide.

K. Prefabricated curbs shall be provided where ductwork above roof penetrates roof surface, sized to match ductwork and duct supports. Curbs shall be insulated type, 12 inches high complete with mounting flange and integral cant strip where acceptable to roofing manufacturer. Outer shell shall be mitered and welded continuously to form a rigid leakproof shell; inner shell shall be solid metal similarly constructed. Wood nailing strips shall be bolted to top of curb shell to provide means for securing flashing material to the curb. Curb shall be constructed of galvanized steel. Ductwork and insulation cover shall be counterflashed to the curb. Curb sidewalls shall be fully insulated to minimum R-5. Top of curb shall be gasketed for airtight fit of rooftop unit.

L. High Efficiency Take Offs (HETOs) [S] shall be 24 gauge G90 galvanized steel, welded and riveted construction. Each fitting shall have conical bell-mouth duct fitting, locking groove, insulation guard, adjustable damper with 3/8" square shaft, u-bolt, nylon bushings, and standoff locking regulator (Rossi Everlock, Elgen Super Standoff, or Windgate Sure-Loc HD).

M. All wire mesh, woven metal fabric, bird screens, and similar items shall be constructed from corrosion resistant, galvanized steel or aluminum.

N. (All ductwork exposed above the roof shall be field-coated with water-based fluid-applied material that incorporates heat reflecting, refracting, and dissipating ceramic particles in durable and adhesive coating, equal to ASTEC #900. Coating shall be applied in strict accordance with the manufacturer's instructions, to a minimum total dry film thickness of 12 mils.)

O. (Acoustic Lining [S]: Fiberglass insulation, 0.26 btu/in./sq.ft./°F./hr. maximum "K" value at 75°F, absolute roughness of exposed surface shall not exceed 0.005 ft., coated to prevent erosion at air velocities up to 2000 fpm, 1.5 lbs/cu. ft. minimum density. Noise reduction co-efficient shall average not less than 0.60 when tested by Acoustical Material Association procedure mounting 6. Liner shall be provided with EPA approved biocide in the erosion coating to protect against microbial growth. Liner shall meet or exceed requirements of ASTM G21 (fungi resistance) and ASTM G22 (bacterial resistance). Acoustic lining shall be one inch thick unless specifically noted otherwise.)

P. (Acoustic Lining: See Section 23 07 00.)

2.03 HVAC FANS [S] [O/M]

A. Roof fans and sidewall fans shall be equal to model indicated, roof or sidewall vent type, power exhaust fans having backward curved composite, aluminum, or steel blade centrifugal fan, directly connected as indicated to motor in fully enclosed air cooled motor compartment, outside of exhaust air stream. Fan and motor housing shall be aluminum. Provide electronically commutated motors (ECM) for all fans unless otherwise noted. ECM motor shall be suitable for connection to DDC system specified in 23 09 00 where required. All ECM motors shall be complete with means to adjust the speed of the fan either through the DDC system or at the fan. All ECM motors shall be speed controllable down to 20% of full speed (80% turndown). ECM motor shall be a minimum of 85% efficient at all speeds. Each fan shall be complete with bird screen and motor operated dampers. Each fan shall be tested and rated in accordance with AMCA Standard #210. Each fan motor shall be factory wired to a terminal strip mounted in a junction box attached inside the motor housing. A weather resistant switch or disconnect, with thermal overload, shall be provided in wiring between the terminal strip and motor connection. A thermally protected motor is NOT an acceptable alternative. Where a disconnect switch with thermal overload is not available from the manufacturer, the Contractor shall provide and install the necessary circuit protection. All motor operated damper actuators shall be coordinated to operate off the same electrical circuit as the associated fan, transformers shall be provided as

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

required. (Explosion-proof motor and non-sparking wheel shall be provided where indicated.) (Fans indicated for fume service shall have all parts coated with a corrosion resistant finish suitable for service indicated. Shop drawings shall include a letter from the factory stating the name of finish to be used and the suitability of the finish for service indicated.) (Multi-speed motors shall be provided where indicated.)

B. Centrifugal fans shall be Vent Set type with centrifugal fan wheel direct connected to motor. Fan and motor shall be mounted on a common base. Fan wheel shall be steel. Rubber in shear type vibration isolators shall be provided for entire unit. Motors shall be open drip proof sleeve bearing type.

C. In-Line fans shall be straight through blower complete with backward curved non-overloading steel or aluminum blades, direct drive, motor mounted out of the airstream, square steel enclosure, (rubber in shear vibration isolators) and disconnect switch with thermal overload wired to motor. Unit shall be suitable for mounting at any angle. Bearings shall be pre-lubricated and sealed at the factory. Power unit shall be accessible without disconnecting ductwork. (Entire unit shall be finished with baked on epoxy paint.) All motor operated damper actuators shall be coordinated to operate off the same electrical circuit as the associated fan, transformers shall be provided as required. Verify duct size at installation location.

D. Kitchen hood exhaust fan shall be upblast type of spun aluminum construction with backward inclined or airfoil blades, containing a built-in grease trough with grease collection pan, and having a motor compartment completely isolated from airstream. A weather resistant switch or disconnect with thermal overload shall be provided in wiring between the terminal strip and motor connection. Fan shall be U.L. 705 and U.L. 762 listed for grease removal and shall have a non-sparking wheel. Fan shall be hinged at or above the curb to allow inspection and cleaning of the inside of the fan and ductwork. Provide safety cable as required by the weight of the equipment.

E. Bathroom exhaust fans shall be equal to Nutone complete with aluminum inlet grille, fan and motor, (solid state variable speed controller with positive off,) discharge duct, backdraft damper in discharge outlet and (wall) (roof) cap.

F. Ceiling exhaust fans shall be complete with aluminum inlet grille with white finish coat, twin wheeled power unit with shaded pole motor, acoustic line steel housing with integrally wired junction box and disconnects for fan motor, (solid state variable speed controller with positive off,) and backdraft damper in discharge outlet.

G. Roof type supply fans shall be of model indicated, down discharge type, having (centrifugal) (propeller blade) fan directly or belt connected as indicated to motor. Fan and motor housing shall be steel or aluminum. Each fan shall be complete with bird screen, filters and motor operated dampers. Each fan shall be tested and rated in accordance with AMCA Standard #210. Each fan motor shall be factory wired to a terminal strip mounted in a junction box attached inside the motor housing. A weather resistant switch or disconnect with thermal overload shall be provided in wiring between the terminal strip and the motor connection. (Explosion-proof motor and non-sparking wheel shall be provided where shown.) (Multi-speed motors shall be provided where shown.)

H. All motor operated dampers shall be Class 1A with maximum leakage rate of 4 cfm/ft2 at 1.0 inch water gauge when tested in accordance with AMCA 500D.

I. Prefabricated curbs shall be insulated type, 12-14 inches high complete with mounting flange, integral cant strip, and rack or flange to support dampers. Outer shell shall be mitered and welded continuously to form a rigid leakproof shell, inner shell shall be solid metal similarly constructed. Wood nailing strips shall be bolted to top of curb shell to provide means for securing flashing material to the curb. Curb shall be constructed of (aluminum) (galvanized steel). Curb sidewalls shall be fully insulated to minimum R-5. Top of curb shall be gasketed for airtight fit of rooftop unit.

J. See PART 1 for spare parts requirements.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

2.04 AIR OUTLETS AND INLETS [S]:

A. Acceptable Manufacturers:
   1. Standard Products: Price, Metal Industries, Krueger, Tuttle and Bailey, and Titus.
   2. Stainless Steel Products: Price, Keyes, and Anemostat.
   3. Security Products: Price, Metal Industries, Krueger, Keyes and Titus.

B. General:
   1. All devices shall be commercial grade and shall be constructed of steel or aluminum as indicated on the drawings.
   2. Manufacturer shall certify cataloged performance and ensure correct application of each air device to provide air pattern, velocity, pressure drop and sound characteristics NC suitable for space installed. Shop drawings shall include a fully itemized list of each devices air quantity, size, accessories, border style, pressure drop, throw ft, and sound level NC. Inclusion of the manufacturers catalog data is not acceptable. Shop Drawings without this information will not be reviewed.
   3. All devices located in ceilings shall have white baked enamel finish. Devices at other locations shall have prime finish suitable for painting or anodized aluminum unless noted otherwise.
   4. Maximum air outlet noise level shall not exceed NC25. Where the indicated size does not allow for an NC25, provide next largest size device. Where device in question is a linear slot diffuser, the number of slots shall be increased while holding the specified slot width and diffuser width the same.
   5. Provide sponge rubber seal around edges of all supply registers and grilles.
   6. All border styles shall be coordinated with the ceiling and\or wall in which they are installed. Where a discrepancy exists in the Drawings, the border type most suitable for the ceiling\wall type shall be submitted and discrepancy noted in the submission.

C. Diffusers:
   1. Round ceiling diffusers shall be adjustable fixed louver faced perforated (surface) (recess) mounted type complete with equalizing grid, volume control unit and anti-smudge ring.
   2. Square ceiling diffusers shall be welded steel or aluminum as indicated on the drawings, removable core, louver face, complete with volume control unit and adjustable vanes for down-discharge pattern.
   3. Strip diffusers shall be extruded aluminum adjustable pattern, recessed type complete with volume control, mounting frames, mounting yokes, mounting strips and accessories.
   4. Light troffer diffusers shall be (single) (double) plenum type constructed of galvanized steel low profile oval side inlet, 1/2” internal acoustical insulation, with damper and air pattern blade. Diffusers shall be finished matt black inside and shall be matched and coordinated with lighting fixtures specified in Section ELECTRICAL WORK.
   5. Drum Louvers shall be extruded aluminum adjustable pattern, recessed type complete with volume control, mounting frames, mounting yokes, mounting strips and accessories.
   6. Variable Air Volume Ceiling Diffusers shall be a complete thermally powered diffuser suitable for lay-in installation in a 24x24 exposed grid ceiling system. Diffusers shall sense room air temperature using induction of room air to a concealed thermal element. Diffusers shall have removable cover with all controls accessible from the unit face. Diffuser shall include one thermal changeover element, at least one thermal room element for heating and cooling, adjustable setpoint from 70 to 78°F and modulating diffusion blades or modulating damper to provide a complete self-contained installation. Diffusers shall alternately provide VAV cooling with VAV heating or constant volume heating unit (complete with appearance panel matching surrounding ceiling) to provide a complete self-contained installation.

D. Registers and Grilles:
   1. Return and exhaust registers shall be aluminum, unless noted otherwise, complete with 45 degree fixed airfoil vanes at not more than 1/2 inch centers. Provide 1 or 1-1/4 inch margin, 1/8 inch beveled frame with concealed screw holes. Damper shall be opposed blade face operated type with removable key. Units on watertight ducts shall be all

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

polished stainless steel or aluminum with baked enamel finish, including damper, linkage, core and frame.

2. Return or exhaust registers (floor mounted) shall be extruded aluminum linear grille with 0° fixed deflection grille bars. Grille bars shall be spaced at not more than 7/16 inches on center. Grille shall be complete with 1" margin frame with countersunk screw holes. Damper shall be factory mounted opposed blade face operated type with removable key.
3. Return Filter grilles shall be heavy duty aluminum with fixed horizontal blades spaced at 1/2" centers and set 45°. Blades shall run parallel to the long dimension of the grille. The mounting frame shall be designed to accept a standard one-inch filter media.
   a. The border shall be mounted to the filter frame with 1/4 turn quick-release fasteners. Filter shall be accessible from the face to allow easy cleaning or replacement. Filter efficiency shall be MERV-(4)(8)(13) and the filter type shall be (pleated)(panel).
4. Bottom registers in gymnasium shall be heavy duty steel to withstand abuse. Fixed horizontal vanes shall be minimum 14 gauge spaced on maximum 1/2" centers, and set at 38°. Vanes shall be set in heavy steel support bars at maximum 8 inch centers. Provide 1-1/4 inch margin steel frame and countersunk or concealed screw holes. Damper shall be opposed blade face operated type with removable key.
5. Supply Registers:
   a. Sidewall supply registers shall be aluminum complete with removable, reversible double deflection core and fixed horizontal or longitudinal deflecting vanes at not more than 1/3 inch centers. Provide 1 or 1-1/4 inch margin frame 1/8 inch beveled frame or 3/16 to 1/4 inch curved frame with concealed screw holes. Damper shall be opposed blade face operated type with removable key. Units shall be provided with core removal tools which shall be turned over to the Owner. Front row of deflection blades shall be horizontal.
   b. Ceiling supply registers shall be one, two, three or four way deflection as indicated on plans and shall have adjustable curved blades to discharge air along ceiling, 1-1/4" inch margin frame with countersunk screw holes and opposed blade face operated damper with removable key.
6. Grilles shall be as specified for registers except without opposed blade dampers.
7. All registers and grilles installed in a wall shall be provided with front blades parallel to the floor. Those installed in the ceiling shall have front blades parallel to the long dimension.

2.05 WALL LOUVERS [S]:

A. Louvers shall be stationary, stormproof units constructed of (16 gauge galvanized steel) (0.081" extruded aluminum) complete with 1/2" mesh matching bird screen in removable frame and extended sill. Blades shall be "S" or "K" shape spaced 3 1/4" - 4" O.C. Finish shall be (prime coat for field finish coat) (baked enamel) (mill finish) (anodized), color as selected by Architect. Pressure drop shall not exceed 0.10 inch H_2O at 700 fpm and water penetration shall not exceed 0.01 oz./sq. ft. at 500 fpm when tested in accordance with AMCA Standard 511, and shall be licensed to bear the AMCA seal. (All project louvers shall be provided under this Section. See Architectural Drawings for louvers not shown on Mechanical Drawings, at gables, elevator vents, smoke vents and similar areas.)

2.06 ROOF VENTS [S]:

A. Roof vents shall be provided by same manufacturer as roof fans and have same finish for matching appearance. Roof vents shall be louvered penthouse constructed of (16 gauge galvanized steel) (18 gauge extruded aluminum) suitably braced to prevent twisting and complete with 1/2" mesh matching bird screen and curb cap flashing. Finish shall be (prime coat) (baked enamel) (mill finish) (anodized) color as selected by Architect. (Provide motor-operated dampers with actuator where indicated.) Prefabricated curbs shall be insulated minimum R-5, minimum 12" high, provided complete with mounting flange, integral cant strip and rack or flange to support dampers. Outer shell shall be mitered and welded continuously to form a rigid leakproof shell, inner shell shall be solid metal similarly constructed. Wood nailing strips shall be bolted to top of curb shell to provide means for securing flashing material to the curb. Curb shall be constructed of same material as roof vent.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

2.07 VENTILATION HOODS [S] [O/M]:

A. Kitchen Hood Make-Up and Exhaust System

1. General: The kitchen hood make-up and exhaust system shall be an integrated, packaged unit and shall include a make-up air unit, exhaust fan, exhaust hood, ductwork and controls. Shop drawings for this system shall be submitted as one package.
2. Make-Up Unit:
   a. General: Make-up unit shall be horizontal roof mounted (down) (side) discharge type, complete with forward curved centrifugal fan, electric heating coil, V-type filter section, rain hood, motorized inlet dampers, fan motor and adjustable V-belt drive, disconnect switch wired to motor, and access doors.
   b. Casing of the unit shall be of heavy gauge, rust protected steel, welded, and provided with easily removable access panels located on the side of the unit. Entire unit casing shall have a minimum of 1 inch thick thermal insulation.
   c. Heating coils are specified in Section 23 80 00.
   d. Filters shall be UL listed two inch thick throwaway type complete with filter frames, holding racks and clips. Filters shall be removable from either side of unit. Filter face velocity shall not exceed 350 fpm.
   e. Fans shall be double width, double inlet, centrifugal type. Fans shall be statically and dynamically balanced, after unit assembly, at the factory. Fans shall be mounted on steel shaft, and supported in ball type bearings with lubrication facilities extended to the motor side of the unit. Fans shall be driven by a unit mounted motor and V-belt drive. Belt drives shall be designed for at least 150% of the connected motor capacity, and sheaves shall be adjustable to provide at least 20% speed variation. Sheaves shall be selected to drive the fan at such speed to produce the specified capacity when set at its approximate midpoint.
   f. Equipment supports shall be 18 gauge galvanized steel complete with wooden nailer.
3. Supply Fan shall be (down) (side) discharge type, double width, double inlet, centrifugal type with forward curved blades. Fan shall be driven by a unit mounted motor and V-belt drive. Casing shall be constructed of galvanized steel and shall include 1” thick permanent cleanable filters, motor operated dampers, and a weather tight removable top for access. Motor operated dampers shall be Class 1A with maximum leakage rate of 4 cfm/ft2 at 1.0 inch water gauge when tested in accordance with AMCA 500D.
4. Exhaust fan shall be upblast type of spun aluminum construction with backward inclined or airfoil blades, containing a built-in grease trough with grease collection pan, and having a motor compartment completely isolated from airstream. Fan shall be U.L. 705 and U.L. 762 listed for grease removal and shall have a non-sparking wheel.
5. Exhaust hood shall be UL listed with a supply fire damper and shall meet all requirements of NFPA #96, UL and applicable building codes and shall be constructed of 18 gauge stainless steel with all seams and joints having a liquid tight external weld. The stainless steel shall have a180 grit finish and all joints shall be ground smooth and polished. The hood shall have a stainless steel filter housing, complete with UL listed extractors the full length of the housing and sized for the air quantity indicated. This housing shall terminate at the bottom with a pitched drip tray full length of the hood. The tray shall be easily removable for cleaning. The area of the hood below the filter housing shall have an enclosed chase for the fire protection system. Vapor-proof lights shall be installed on three to four foot centers completely wired and ready for an external power source. The lower front edge of the hood shall be furnished with a stainless steel air supply slot with adjustable straightening vanes and opposed blade dampers suitable for shut-off duty. (Stainless steel face registers with opposed blade dampers shall be furnished on the outer side walls of the hood to permit the supply of air into the kitchen area.) Hoods shall be mounted at 80” above floor and a minimum of 2’-0” above the cooking surface, or as indicated by the terms of the hood’s UL listing. Stainless steel filler skirts matching the hood shall be provided between the hood and ceiling where ceilings are higher than top of hood. Filler skirts shall be fully welded with flanged edges, bolted to hood.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

6. Controls shall be a complete factory-furnished package including fuses, interlocks, switches, safety devices and all wiring required to interlock the make-up unit, exhaust fan and canopy mounted control station. (The electric heating section shall be complete with a minimum of steps of control, flow switch, discharge thermostat and thermal cutout.) The canopy mounted controls station shall have fan (and heater) switches with pilots, and canopy light switch, (and an adjustable thermostat control capable of resetting the make-up air discharge temperature.) A heat sensor with control relay shall be provided to energize the system upon detection of heat under the hood.
7. Fire Protection System: Furnish in canopy specified above, a wet chemical system, providing complete fire protection of duct, plenum and surface equipment. Installation to be in compliance with chemical manufacturer's UL listing. All piping run in hood to be concealed in a chase. Piping extending up through chase to duct and plenum nozzles fitted with sleeves, forming grease-tight joint. Provide chase openings for extending piping to surface nozzles. Chase to be fitted with removable panel for making field joints and final connections. Exposed piping of surface protection nozzles shall be schedule 40 stainless steel pipe with chrome plate elbows. System shall be activated by fusible links connected to automan release. Fit automan release with electric micro switch and wire from switch to a reset relay mounted on side of automan release. Provide fuel supply shut off in accordance with applicable codes. Gas fuel shut off valves to cooking appliances shall be provided as part of the Fire Protection System. All electric fuel shut off devices to cooking appliances and wiring by (others) (Division 26). Furnish and install a remote manual fire pull and integrate into system. Provide microswitch with dry contacts for energizing the hood exhaust fan (and de-energizing the make-up air unit). At time of installation, an authorized dealer of the chemical system shall complete and certify the system.
8. Roof Curbs shall be provided for the make-up and exhaust duct roof penetrations. Prefabricated curbs shall be insulated type minimum R-5, minimum 12 inches high complete with mounting flange and integral cant strip. Outer shell shall be mitered and welded continuously to form a rigid leakproof shell, inner shell shall be solid metal similarly constructed. Wood nailing strips shall be bolted to top of curb shell to provide means for securing flashing material to the curb. Curb shall be constructed of (aluminum) (galvanized steel) and shall be sized to support exhaust fan discharge a minimum of 40 inches above the roof surface.
9. See PART 1 for spare parts requirements.

PART 3 - EXECUTION

3.01 INSTALLATION:

A. Duct clearance and lengths shall be established from measurements taken at the job site before any ducts are fabricated.

B. Provide openings in ductwork where required to accommodate thermometers and controllers. Provide pitot tube openings where required for testing and balancing of system. Where exhaust ducts are installed within a chase or shaft, pitot tube shall extend to the outside of the chase or shaft and be capped.

C. Locate ducts with sufficient space around equipment to allow normal passage, and operating and maintenance activity.

D. Locate all ductwork to align with the ceiling grid where connections are to be made to Diffusers, Registers and Grilles. Field verify exact grid location before installing ductwork.

E. Locate all Diffusers, Registers and Grilles as indicated on plans and in accordance with the Reflected Ceiling Plans, if provided.

F. Provide low loss factory fabricated fittings for all round take-off connections to low velocity rectangular ducts.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

G. All Flex duct shall be properly supported to prevent any short radius bends or kinks. Connections to diffusers shall be made using long radius bends or elbows with turning vanes to ensure that airflow is distributed evenly across the neck of the diffuser. Conditions that create higher airflows in one quadrant of diffuser throw are not acceptable. Maximum flex duct runout length shall be 5 feet. Flex duct shall not penetrate wall construction of any type.
   1. Flex duct clamps shall be Thermaflex Snaplock Clamp or equal using minimum ½" wide stainless-steel band with cadmium plated hex bolt to tighten band with worm-gear action.

H. Install duct accessory items in accordance with manufacturers printed instructions.

I. Install volume, smoke and fire dampers where shown on plans.

J. Manual volume dampers shall be installed at all branch connections, divided flow branches, and end-of-run diffuser/register connections for low pressure supply, return, and exhaust duct systems. Manual volume dampers shall be installed within 3 feet of the main duct.

K. Provide access doors at all automatic dampers, fire/smoke dampers, duct heaters, duct mounted coils, thermostats and at all other points requiring inspection or servicing. Duct access doors for fire and smoke dampers shall be permanently labeled with minimum 1/2 inch high letters reading FIRE DAMPER or SMOKE DAMPER. Labeling shall be as specified for equipment nameplates under Section 23 05 53.

L. Fire dampers shall be UL listed for the type assembly in which they are installed.

M. All grease exhaust ductwork shall be sloped downward to the hood or an approved receptacle at not less than 1/4 inch per foot.

N. Where clothes dryer exhaust duct is installed concealed within the building construction, a label shall be provided indicating the equivalent length of the exhaust duct. The label shall be located within six feet of the duct connection. Where dryer exhaust duct is concealed within walls or behind hard ceilings, shield plates shall be installed between the duct and the finished face of the framing members to prevent damage from nails or screws. Coordinate dryer wall box with baseboard molding and masonry coursing as applicable.

O. All watertight ductwork shall be sloped downward to the air inlet or to a waterstop with drain tube. Slope shall be not less than 1/4 inch per foot.

P. Connection of horizontal ducts to rooftop exhaust fans shall be made using radiused elbows or mitered elbows with turning vanes. Duct transitions shall be as hereinbefore specified.

Q. Ductwork installed or stored on site shall be protected such that open ends are covered to prevent construction dust and debris and other foreign matter from being introduced into the duct systems. If at any time during construction, dust or debris is discovered within the duct systems or ducts openings are observed to be unprotected, the Contractor will be responsible for properly cleaning all duct systems in accordance with NADCA procedures for the respective type of ductwork.

R. Grille, Register and Diffuser Installation:
   1. Boots to diffusers shall fit airtight to diffuser necks and diffusers shall be securely fastened thereto.
   2. Where grilles are installed at walls or ceilings, the duct shall be fastened securely to the masonry or panel at each side of the opening and the grille shall be securely fastened snug against the masonry or panel.
   3. If flanged grille frames are used on exposed ducts, runout shall be same size as outside dimension of flange and full depth of register assembly.
   4. Unless otherwise indicated in the Contract Documents, sidewall grilles and registers to be installed high shall be installed within 6 inches of the ceiling or nearest overhead projection. Unless otherwise indicated in the Contract Documents, sidewall registers and or grilles to be installed low shall be installed within 6 inches of the floor, but shall be coordinated with cove or base molding. Sidewall registers shall also be coordinated with the block coursing where applicable.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5. Air saddles shall be installed on the light fixtures at the time the light fixture is installed. Air passage knockouts in air handling light fixtures, shall be punched out as required. Cooperation with electrical trade is required.
6. Ceiling diffusers shall be installed in and coordinated with the ceiling tile or other ceiling units. Diffusers, Registers and Grilles shall be centered in each ceiling unit, unless shown otherwise. Mounting frames shall be installed as required to support diffusers, registers and grilles. Grilles, registers and diffusers shall not be supported from the ceiling system, conduit, piping or unrelated ductwork.

S. (Patching: Where existing control, monitoring or other penetrating devices are removed from ductwork, the opening shall be patched to match thickness, type and finish of existing ductwork, and sealed airtight.)

3.02 DUCT CLEANING:

A. Clean (new)(existing-to-remain) (supply)(return)(exhaust) duct systems before testing, adjusting, and balancing.

B. Use service openings for entry and inspection.
1. Create new openings and install access panels appropriate for duct static-pressure class if required for cleaning access. Provide insulated panels for insulated or lined duct. Patch duct as recommended by duct manufacturer. Comply with paragraph "Air Duct Accessories" in this Section for access panels and doors.
2. Disconnect and reconnect flexible ducts as needed for cleaning and inspection.
3. Remove and reinstall ceiling to gain access during the cleaning process.

C. Particulate Collection and Odor Control:
1. When venting vacuuming system inside the building, use HEPA filtration with 99.97 percent collection efficiency for 0.3-micron-size (or larger) particles.
2. When venting vacuuming system to outdoors, use filter to collect debris removed from HVAC system, and locate exhaust downwind and away from air intakes and other points of entry into building.

D. Clean the following components by removing surface contaminants and deposits:
1. Air outlets and inlets (registers, grilles, and diffusers).
2. Supply, return, and exhaust fans including fan housings, plenums (except ceiling supply and return plenums), scrolls, blades or vanes, shafts, baffles, dampers, and drive assemblies.
3. Air-handling unit internal surfaces and components including mixing box, coil section, air wash systems, spray eliminators, condensate drain pans, humidifiers and dehumidifiers, filters and filter sections, and condensate collectors and drains.
4. Coils and related components.
5. Return-air ducts, dampers, actuators, and turning vanes except in ceiling plenums and mechanical equipment rooms.
6. Supply-air ducts, dampers, actuators, and turning vanes.
7. Dedicated exhaust and ventilation components and makeup air systems.

E. Mechanical Cleaning Methodology:
1. Clean metal duct systems using mechanical cleaning methods that extract contaminants from within duct systems and remove contaminants from building.
2. Use vacuum-collection devices that are operated continuously during cleaning. Connect vacuum device to downstream end of duct sections so areas being cleaned are under negative pressure.
3. Use mechanical agitation to dislodge debris adhered to interior duct surfaces without damaging integrity of ducts or duct accessories.
4. Clean fibrous-glass duct with HEPA vacuuming equipment; do not permit duct to get wet. Replace fibrous-glass duct that is damaged, deteriorated, or delaminated or that has friable material, mold, or fungus growth.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5. Clean coils and coil drain pans according to NADCA 1992. Keep drain pan operational. Rinse coils with clean water to remove latent residues and cleaning materials; comb and straighten fins.
6. Provide drainage and cleanup for wash-down procedures.
7. Antimicrobial Agents and Coatings: Apply EPA-registered antimicrobial agents if fungus is present. Apply antimicrobial agents according to manufacturer's written instructions after removal of surface deposits and debris.

F. Source-Removal Cleaning Methods: The HVAC system shall be cleaned using source-removal mechanical cleaning methods designed to extract contaminants from within the HVAC system and to safely remove these contaminants from the facility. No cleaning method, or combination of methods, shall be used that could potentially damage components of the HVAC system or negatively alter the integrity of the system.
   1. Use continuously operating vacuum-collection devices to keep each section being cleaned under negative pressure.
   2. Cleaning methods that require mechanical agitation devices to dislodge debris that is adhered to interior surfaces of HVAC system components shall be equipped to safely remove these devices. Cleaning methods shall not damage the integrity of HVAC system components or damage porous surface materials such as duct and plenum liners.

G. Cleaning Mineral-Fiber Insulation Components:
   1. Fibrous-glass thermal or acoustical insulation elements present in equipment or ductwork shall be thoroughly cleaned with HEPA vacuuming equipment while the HVAC system is under constant negative pressure and shall not be permitted to get wet according to NADCA ACR 2006.
   2. Cleaning methods used shall not cause damage to fibrous-glass components and will render the system capable of passing the HVAC System Cleanliness Tests (see NADCA ACR 2006).
   3. Fibrous materials that become wet shall be discarded and replaced.

H. Duct System Cleanliness Tests:
   1. Visually inspect duct system to ensure that no visible contaminants are present.
   2. Test sections of metal duct system, chosen randomly by Owner, for cleanliness according to "Vacuum Test" in NADCA ACR, "Assessment, Cleaning and Restoration of HVAC Systems."
   3. Acceptable Cleanliness Level: Net weight of debris collected on the filter media shall not exceed 0.75 mg/100 sq. cm.
   4. Duct system will be considered defective if it does not pass tests and inspections.
   5. Prepare and submit test and inspection reports.

3.03 DUCT SCHEDULE:

A. All ductwork shall be fabricated, installed, sealed, and tested in accordance with the schedule below. All testing shall be in accordance with the latest edition of the SMACNA HVAC Air Duct Leakage Test Manual.
   1. Testing shall be conducted and the results approved by the Architect/Engineer prior to the application of insulation.
   2. The Architect/Engineer shall be notified one week prior to conducting the test. Unless specifically waived, the Engineer and Owner reserve the right to witness the test. Final, signed and dated test results shall be documented as outlined in SMACNA HVAC Air Duct Leakage Test Manual and submitted to the Architect/Engineer.

B. Supply Ductwork
   1. Medium pressure (to include all ductwork upstream of VAV boxes):
      a. Pressure Class: Positive 6” w.g.
      b. Seal Class: A
      c. Leakage Class for Round Duct: 3
      d. Leakage Class for Rectangular Duct: 6

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

e. Testing Requirement: 100%

2. Low pressure duct downstream of VAV boxes:
   a. Pressure Class: Positive 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: 25%
3. Low pressure duct connected to air handling units, energy recovery units, and rooftop air conditioning units/heat pumps in excess of 5 tons:
   a. Pressure Class: Positive 3” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 6
   d. Leakage Class for Rectangular Duct: 6
   e. Testing Requirement: 25%
4. Low pressure duct connected to cabinet unit heaters, fan coil units, and heat pumps - 5 tons or less:
   a. Pressure Class: Positive 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: N/A
5. Ductwork located outdoors:
   a. Pressure Class: Positive 6” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 3
   d. Leakage Class for Rectangular Duct: 6
   e. Testing Requirement: 100%
6. Ductwork connected to equipment not listed above:
   a. Pressure Class: Positive 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: N/A

C. Return Ductwork:

1. Ductwork located outdoors:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 6
   d. Leakage Class for Rectangular Duct: 6
   e. Testing Requirement: 100%
2. Ductwork located in unconditioned spaces or fully ducted systems located above ceiling:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: 10%
3. Ductwork exposed in conditioned spaces or installed in ceiling return plenums:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 24
   d. Leakage Class for Rectangular Duct: 24
   e. Testing Requirement: N/A
4. Ductwork connected to cabinet unit heaters, fan coil units, or heat pumps – 5 tons or less:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

c. Leakage Class for Round Duct: 12
d. Leakage Class for Rectangular Duct: 12
e. Testing Requirement: N/A

5. Ductwork connected to equipment not listed above:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: N/A

D. Exhaust Ductwork:

1. Ductwork located outdoors:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 6
   d. Leakage Class for Rectangular Duct: 6
   e. Testing Requirement: 100%
2. Negative pressure general exhaust:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: N/A
3. Positive pressure general exhaust:
   a. Pressure Class: Positive 2” w.g.
   b. Seal Class: A
   c. Leakage Class for Round Duct: 12
   d. Leakage Class for Rectangular Duct: 12
   e. Testing Requirement: 10%
4. Fume exhaust:
   a. Pressure Class: Negative 6” w.g.
   b. Seal Class: Welded
   c. Leakage Class for Round Duct: 3
   d. Leakage Class for Rectangular Duct: 3
   e. Testing Requirement: 100%
5. Watertight and dishwasher hood exhaust:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: Welded
   c. Leakage Class for Round Duct: 3
   d. Leakage Class for Rectangular Duct: 3
   e. Testing Requirement: N/A
6. Grease Duct:
   a. Pressure Class: Negative 2” w.g.
   b. Seal Class: Welded
   c. Leakage Class for Round Duct: 3
   d. Leakage Class for Rectangular Duct: 3
   e. Testing Requirement: 100% Light test (or other test approved by the Code Official in accordance with local and state codes).

3.04 FANS:

A. Coordinate roof opening and locations with structural system.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 23 70 00

CENTRAL HVAC EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY:

A. Related Documents: Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Work Included:

1. Packaged Outdoor Unitary HVAC Equipment

C. Related Sections:

1. Division 01 -- Commissioning
2. Section 23 00 10 – HVAC General Requirements
3. Section 23 05 00 – Common Work Results for HVAC
4. Section 23 05 53 – Identification for HVAC Piping and Equipment
5. Section 23 05 93 – Testing, Adjusting, and Balancing for HVAC
6. Section 23 09 00 – Instrumentation and Control for HVAC
7. Section 23 30 00 – HVAC Air Distribution

1.02 REFERENCES:

A. General: The following standards or codes form a part of this specification to the extent indicated by the reference thereto.

B. Air Moving and Conditioning Association, Inc. (AMCA):

Bulletin 210 Standard Test Code for Air Moving Devices

C. Air Conditioning and Refrigeration Institute (ARI):

Guideline T Thermal Performance for Cool Storage Equipment

Standard 210 Standard for Unitary Air Conditioning Equipment

Standard 410 Standard for Forced Circulation Air Cooling and Heating Coils

Standard 430 Standard for Central Station Air Handling Units

D. American National Standards Institute (ANSI):

Standard B31.1 Code for Pressure Piping

E. American Society of Heating, Refrigeration and Air Conditioning Engineers (ANSI/ASHRAE):

Standard 15 Safety Code for Mechanical Refrigeration

F. National Fire Protection Association (NFPA):

Standard 30 Flammable and Combustible Liquids Code

Standard 90A Air Conditioning and Ventilating Systems of other than Residence Type

G. National Electrical Manufacturers Association (NEMA)

H. Sheet Metal and Air Conditioning Contractors' Association (SMACNA)

Duct Construction Standards (Latest Edition)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

I. International Fuel Gas Code (IFGC)

J. International Energy Conservation Code (IECC)

K. Underwriters Laboratories, Inc. (UL)

1.03 EQUIPMENT LABEL:

A. All mechanical equipment and appliances shall be listed and labeled by a nationally recognized testing and inspection agency approved by the authority having jurisdiction. All equipment and appliances shall be installed in accordance with the conditions of the listing. Manufacturer's installation instructions shall be available at the job site at the time of inspection.

1.04 COMMISSIONING OF HVAC SYSTEMS:

A. The Contractor shall provide contact information to the Commissioning Agent indicated in Division 1 for all major items of Equipment.

B. Provide additional submittal copy of major equipment for Commissioning Agent specified in Division 1.

1.05 SUBMITTALS:

A. Submit shop drawings, product data and samples in accordance with Division 1 and Section 23 00 10.

B. Shop drawings, diagrams, catalog data and such other data necessary to fully describe and substantiate compliance with these specifications shall be submitted for all equipment and materials marked with notation set forth in Section 23 00 10.

C. Operation and maintenance data shall be submitted in accordance with Division1, for all items of equipment and materials marked with notation set forth in Section 23 01 00.

D. All fans for use with Variable Frequency Drives (VFD) shall have critical speed and multiples of critical speed indicated on each submittal.

1.06 SPARE PARTS:

A. Each cooling or heating unit shall be provided with 3 sets of filters. At end of construction each unit shall be provided with a clean filter and one set shall be turned over to the Owner as spares.

1.07 SPECIAL COATINGS: See Section 23 05 63 for Anti-Microbial Coatings on the interior of air moving equipment.

PART 2 - PRODUCTS

2.01 PACKAGED OUTDOOR UNITARY HVAC EQUIPMENT [S] [O/M]:

A. General: Rooftop air conditioning units shall be Trane fabricated units furnished complete with all components as specified herein and as required by application and model number indicated on drawings. Units shall be packaged direct expansion single-zone draw through type complete with air-tight and weather-tight insulated and gasketed casing, fans, motors, adjustable V-belt drive, belt guards, drain pan, cooling coil, compressors, air cooled condenser, filter, and economizer. Each unit shall have physical dimensions suitable for allotted space and allow complete removal of filters, coils, drain pans and accessories without having to dismantle the unit, adjacent equipment or building components. Units shall be sized to allow piping to enter the unit within the curb and to allow valves and accessories within the unit casing. (Where units are indicated to be variable air volume, unit mounted and wired variable frequency drives (VFD's) as specified hereinafter shall be provided for the supply (and return) fan). (Hot gas bypass shall be factory installed and shall be complete with all necessary specialties for proper operation.)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

B. Casings for all sections of the unit shall be double wall galvanized steel construction with removable access panels or access doors as required for each individual section of unit. Casing shall be completely insulated internally with a minimum one-inch thick, one and one-half pound density fiberglass insulation factory coated with manufacturer's standard material to prevent erosion of insulating material. Minimum panel insulation value shall be R-7 for units 15 tons and less and R-13 for units over 15 tons.

C. Condensing section shall be complete with compressor-motor unit, condenser coil, welded-wire or stamped sheet metal condenser coil guards, condenser fans, motor starters, controls and piping enclosed in a sheet steel enclosure recommended for outside installation. Condenser fans shall be vertical or horizontal discharge as shown. Intake and discharge openings shall be provided with welded-wire or stamped sheet metal coil guards. Condensing unit controls shall provide automatic capacity modulation and condenser and evaporator pressure control for operation down to 0°F outside air temperature. Provide controls as required for enthalpy economizer. Crankcase heater shall be provided in compressor body.

D. Supply (and return) fan(s) shall be (double width double inlet) (plenum) centrifugal type with galvanized steel housing. Fan wheel shall be (forward curved) or (airfoil) type mounted on solid steel fan shaft supported by grease lubricated ball bearing with average minimum life of 200,000 hours. Bearings shall be provided with lubrication facilities located outside of the unit enclosure. Fan shall be provided with unit mounted motor and V-belt drive. Belt drives shall be designed for 150% of the connected motor capacity and sheaves shall be adjustable to provide at least 20% speed variation. Sheaves shall be selected to drive the fan at a speed which will produce the specified capacity when set at its approximate midpoint. Fan shall be statically and dynamically balanced at the factory after unit has been assembled. Fan shall be certified in accordance with ARI 430.

E. Fan casing shall be provided with hinged, gasketed and insulated access door with quick opening latches. Access door shall be located on drive side of fan housing. Location of access shall be coordinated with drawings to assure adequate clearances and service capabilities.

F. Coils:
   1. Cooling coils shall be direct expansion refrigerant type as specified in Section 23 80 00.
   2. All coils shall be installed within casing sections. Coil casings shall completely enclose all coil items including headers and return bends. Casing shall provide a minimum of six inches between coils to allow for field mounting of sensors or instrumentation. Casing shall provide removable access panels for removal of coils without disassembling remainder of unit. Condensate drain pans are required for all cooling coils. Stacked cooling coils shall be provided with intermediate drain pans internally piped to main drain pan. Coil drain pans shall be insulated to prevent sweating under all conditions. Drain pan shall be provided with mastic coating to prevent corrosion. Drain pan shall slope to drain all moisture collected from the coil. Drain piping connections shall be provided at the lowest point of the drain pan.

G. Combination filter mixing box section shall be factory fabricated of same construction and of physical size to match unit casing as previously specified. Section shall include angular filter holding racks, outside air and return air dampers. Section shall be complete with hinged access doors located on both sides to facilitate filter media installation and replacement. Section shall be provided with block-off panels and means of sealing around filter media to prevent bypass of unfiltered air. Filter face velocity shall not exceed 350 feet per minute. Dampers for outside air and return air shall be full size of unit openings and shall be low leakage type with maximum leakage rate not to exceed 3 cfm per square foot at one inch water gauge. Damper arrangement shall provide proper mixing of outside air and return air while having capability of modulating either air stream.

H. an industry standard 0-10 vdc, or 4-20 mA for analog input to the Building Automation System.)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

I. Fiberglass filters shall be pleated media, UL Class 2 listed and labeled, two inches thick. Filter media shall have a rigid frame around entire perimeter and rigid support grille on entering and leaving faces to adequately support the filter media.

J. Economizer section shall be factory fabricated complete with outside air, return air, and barometric relief air dampers (and relief fan). All units shall be furnished with IECC and ASHRAE 90.1 Economizer Fault Detection and Diagnostics (FDD). Where a Building Automation System is present, the FDD shall communicate alarms to the BAS. Where there is no BAS present, the unit shall be capable of reporting faults to a fault management application accessible by day-to-day operating or service personnel, or annunciated locally on zone thermostats.

K. Unit Controls shall be factory furnished, installed and coordinated to operate with the system specified in 23 09 00. System shall include all necessary terminal blocks, motor contactors, motor overload protection, grounding lugs, control transformers, auxiliary contactors and terminals for the connection of external control devices or relays. Control system shall be a factory-mounted stand alone microprocessor-based DDC with all necessary sensors and interfaces to monitor and operate all functions as outlined in the equipment/control schedule and required for complete unit operation. The DDC controller shall be a Native BACnet applications controller that can communicate on a RS-485 LAN using the BACnet MS/TP or BACnet IP protocols. Control system shall be mounted in the unit main control compartment. Factory-mounted DDC control system shall be factory-programmed and run-tested prior to shipment to verify functions and logic. A unit-mounted intelligent programmable interface device shall be included for communication, display and setpoint control. A unit-mounted Hand/Off/Auto switch shall be included to allow for servicing. Refer to Section 23 09 93 for Sequence of Operation requirements of the packaged DDC controller. Refer to the Control Schematics on the Drawings to obtain configuration requirements of specific units. All points indicated on the controls diagrams shall be communicated to/with the Building Automation System. The controls shall be capable of receiving start/stop, setpoint, and occupancy signals from the Building Automation System.

L. (Unit shall have factory wired non-fused disconnect switch with external handle and non-powered 15A GFI convenience outlet. Unit to have integral phase monitor to protect motors and compressors against problems associated with phase loss, phase imbalance or phase reversal.)

M. All duct openings in unit floor over 12 inches wide shall have personnel-load-rated safety grates.

N. Rooftop units shall be provided with factory fabricated curb, 12”-14” high suitable for vibration isolation rail. The roof curb shall be pitched to match the pitch of the roof such that the top of the curb is level without the use of shims or other similar type devices. Curb sidewalls shall be fully insulated to minimum R-5. Top of curb shall be gasketed for airtight fit of rooftop unit.

O. Warranty: Motor-compressor shall be guaranteed for 5 years.

P. See PART 1 for spare parts requirements.

PART 3 - EXECUTION

3.01 GENERAL:

A. All equipment and materials, specified herein or shown on the drawings shall be installed complete, coordinated with all other work, tested and made tight and put into safe controlled operation to perform its intended function as a part of this project.

B. All rooftop equipment shall be secured to the roof framing structure.

3.02 ROOFTOP AIR HANDLING AND AIR CONDITIONING UNITS:

A. Coordinate all openings and location with structural systems.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

B. All piping above the roof shall be installed in factory supplied pipe vestibule(s). Vestibule shall be supported on all sides by an integrated extension of the unit curb. Vestibule shall be insulated and match the construction of the unit casing. It shall be sealed and gasketed to be weatherproof with roof pitched to shed water. Doors shall be provided and located to allow access to all components installed within the vestibule.

C. Contractor's attention is directed to Section 23 05 48 Vibration and Seismic Controls for HVAC Piping and Equipment for requirements.

D. Install and connect unit in accordance with manufacturer's recommendations and contract drawing details. Should conflicts in the two occur notify the Architect/Engineer.

E. Coordinate all control items with Section 23 09 00 Instrumentation and Control for HVAC.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 26 5119
INTERIOR LED LIGHTING

PART 1 - GENERAL

1.01 REQUIREMENTS:

A. The general provisions of the Contract, including General and Supplementary Conditions and General Requirements, apply to the work specified in this Section.

1.02 REFERENCE STANDARDS:

A. IES LM-79 - Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products; Illuminating Engineering Society.

B. IES LM-80 - Approved Method: Measuring Lumen Maintenance of LED Light Sources; Illuminating Engineering Society.

C. NECA 1 - Standard for Good Workmanship in Electrical Construction; National Electrical Contractors Association.

D. NECA/IESNA 500 - Standard for Installing Indoor Commercial Lighting Systems; National Electrical Contractors Association.

E. NEMA LE 4 - Recessed Luminaires, Ceiling Compatibility; National Electrical Manufacturers Association.

F. NFPA 70 - National Electrical Code; National Fire Protection Association.

G. UL 1598 - Luminaires; Current Edition, Including All Revisions.

H. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

1.03 SUMMARY:

A. Section Includes:
   1. Interior solid-state luminaires that use LED technology.
   2. Emergency lighting control transfer relay device.
   3. Lighting fixture supports.

B. Related Requirements:
   1. Division 26 Section "Lighting Control Devices" for automatic control of lighting, including time switches, photoelectric relays, vacancy sensors, and multipole lighting relays and contactors.
   2. Section 01 91 13 – General Commissioning Requirements

1.04 DESCRIPTION:

A. Furnish, assemble, and install LED luminaires complete with sockets, louvers, lenses, internal wiring, leads, trims, rings, frames, hangers, straps, reflectors, light engine, and power supply unit (driver) as applicable and required for a complete installation.

B. Luminaires that require remote mounting of any components needed for its operation, such as drivers, or light engine electronics are not permitted. All components needed to make the luminaire operational shall be integral to the luminaire housing.

1.05 DEFINITIONS:

A. BIM: Building information model.
B. CCT: Correlated color temperature.
C. CRI: Color-rendering index.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

D. CU: Coefficient of utilization.
E. LER: Luminaire efficacy rating.
F. Lumen: Measured output of lamp and luminaire, or both.
G. Luminaire: Complete lighting fixture.
H. RCR: Room cavity ratio.

1.06 SUBSTITUTIONS:

A. The lighting fixture layouts of spaces indicated in the Contract Documents are based upon photometric data, quality, construction, and appearance of fixtures listed in the lighting fixture schedule. The contractor shall be required to provide a point-by-point photometric study on every type of room if substituted fixtures are provided.

1.07 SCOPE:

A. The work covered under this Section shall include furnishing and installing light- emitting diode (LED) luminaires (lighting fixtures) complete as shown on the Drawings, as described in the “Luminaire (Lighting Fixture) Schedule", and as herein specified.

1.08 SUBMITTALS:

A. Comply with Division 01 Section “Submittals Procedures” and Division 26 Section “General Electrical Requirements”.

B. Product Data: For each type of lighting fixture, arranged in order of fixture designation. Include data on features, accessories, finishes, and the following:
   1. Arrange in order of luminaire designation.
   2. Include data on features, accessories, and finishes.
   3. Include physical description of lighting fixture including dimensions.
   4. Life, output (lumens, CCT, and CRI, and energy), efficiency data for lamps.

1.09 CLOSEOUT SUBMITTALS:

A. Operation and Maintenance Data: For lighting equipment and fixtures to include in emergency, operation, and maintenance manuals per Division 01 Section “Operation and Maintenance Data”.

1.10 QUALITY ASSURANCE:

A. Provide luminaires that are of a manufacturer engaged in the production of luminaires that are equal in material, design and workmanship. The manufacturer’s luminaire shall have been in satisfactory commercial or industrial use for a minimum of three (3) years. The manufacturer’s luminaire shall have been available on the commercial market during the three (3) year period.

B. LED luminaires shall conform to the requirements of the National Electrical Code (NEC), state and local codes, and these Specifications.

C. NFPA 101 Compliance: Comply with visibility and luminance requirements for exit signs.

D. The luminaires shall be listed by Underwriters Laboratories, Inc. (UL).

E. Color Rendering Index (CRI): R9 > 80.

1.11 COORDINATION:

A. Coordinate layout and installation of lighting fixtures and suspension system with other construction that penetrates ceilings or is supported by them, including other luminaires, HVAC equipment, fire-suppression system, speakers, access panels, ceiling mounted projectors and screens, and partition assemblies.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1.12 DELIVERY, STORAGE, AND HANDLING:

A. Protect finishes of exposed surfaces by applying a strippable, temporary protective covering before shipping.

PART 2 - PRODUCTS

2.01 MATERIALS AND COMPONENTS:

A. The LED luminaires supplied shall have the proper trim, frames, mounting devices, configuration, and accessories necessary to be properly installed in the building construction. Catalog numbers of luminaires in the "Lighting Fixture Schedule" on the Drawings are to establish a type of luminaire and not to determine a method of mounting.

1. Catalog numbers scheduled on the Drawings may indicate luminaire compatibility with certain types of ceiling construction. The Contractor shall determine exact type of ceilings actually to be furnished in each area and shall obtain luminaires to suit, deviating from specified catalog numbers or descriptions only where necessary, and only to the extent necessary to insure luminaire-ceiling compatibility. The Contractor shall notify the Architect/Engineer and Owner in writing where such changes are to be made.

B. Recessed Fixtures: Comply with NEMA LE 4.

C. CRI of minimum 80. CCT of 4000 K.

D. Rated lamp life of 50,000 hours.

E. Lamps dimmable from 100 percent to 1 percent of maximum light output.

F. Internal driver.

G. Nominal Operating Voltage: 120 V AC/277 V AC.

H. Housings

1. Extruded-aluminum housing and heat sink.
2. Powder-coat painted finish to match luminaire.

I. Listed and labeled as complying with UL 8750.

J. Double lock nuts shall be used at the load bearing ends of threaded pipe used as part of a stem mounting assembly.

K. Metal Parts: Free of burrs and sharp corners and edges.

L. Sheet Metal Components: Steel, unless otherwise indicated. Form and support to prevent warping and sagging.

M. Diffusers and Globes:

1. Acrylic Lighting Diffusers: 100 percent virgin acrylic plastic. High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
   a. Lens Thickness: At least 0.125 inch minimum unless otherwise noted.
   b. UV stabilized.

N. Glass: Annealed crystal glass, unless otherwise indicated.

2.02 POWER SUPPLY UNIT (DRIVERS):

A. Luminaires shall be equipped with an LED driver(s) that accepts the voltage as indicated on the “Luminaire (Lighting Fixture) Schedule”. Individual driver(s) shall be replaceable.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

B. Driver(s) shall be UL8750 class 2 compliant for their intended purpose.

C. Total harmonic distortion (THD) for current: ≤ 20%:

1. Comply with NEMA SSL 1 and rated for a THD of less than 20 percent at all voltages.
2. Driver must be labeled to comply with RFI (Radio Frequency Interference) requirements of FCC Title 47 Part 15.

D. Driver(s) shall be rated to operate between -30ºC to 50ºC minimum.

E. Individual driver(s) shall be equipped with surge protection (6kV minimum) in accordance with IEEE/ANSI C62.4.1. Driver shall be protected against damage due to either an open circuit or short circuit fault condition on the driver output.

F. Driver(s) shall have a minimum efficiency of 85%.

G. Drivers shall deliver full-range dimming from 0-10V control signal.

2.03 LED LIGHT SOURCE (LIGHT ENGINE):

A. Individual light engine(s) shall be replaceable.

B. LED light engine(s) shall have a minimum lifetime of 50,000+ hours at 40º C and shall have a minimum efficiency of 80 lumens per watt.

C. LED dies shall be tested in accordance with I.E.S.N.A. LM-80-08 standards.

D. Thermal management shall be passive by design and shall consist of heat sinks with no fans, pumps, or liquids.

2.04 EXIT LIGHTS:

A. Description: Comply with UL 924; for sign colors, visibility, luminance, and lettering size, comply with authorities having jurisdiction.

B. Exit lights (signs) shall be universal mount and complete with factory installed light-emitting diodes (LED) mounted behind a red diffusing panel and with direction arrows as shown on the Drawings.

C. Operating at nominal voltage of 120 Vac or 277 Vac. Match voltage to surrounding luminaire type.

D. Internally Lighted Signs:

1. Lamps for AC Operation: LED: 70,000 hours minimum rated lamp life

E. Exit lights shall have wire guards where shown on the Drawings.

2.05 FIXTURE SUPPORT COMPONENTS:

A. Comply with Division 26 Sections “Common Work Results for Electrical” and “Hangers and Supports for Electrical Systems” for channel- and angle-iron supports and nonmetallic channel and angle supports.

B. Single-stem hangers: l/2-inch steel tubing with swivel ball fitting and ceiling canopy unless noted otherwise. Finish same as fixture.

C. Twin-stem hangers: Two (2) 1/2-inch steel tubes with single canopy arranged to mount a single fixture unless noted otherwise. Finish same as fixture.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

D. Rod hangers: 3/16-inch minimum diameter, cadmium-plated, threaded steel rod unless noted otherwise.

E. Hook hangers: Integrated assembly matched to fixture and line voltage and equipped with threaded attachment, cord, and locking-type plug unless noted otherwise.

F. Aircraft cable support: Use cable, anchorages, and intermediate supports recommended by fixture manufacturer unless noted otherwise.

2.06 FINISHES:

A. Fixtures: Manufacturer's standard, unless otherwise indicated.
   1. Paint finish: Applied after fabrication over corrosion-resistant treatment or primer, free of defects.
   2. Metallic finish: Corrosion-resistant.

PART 3 - EXECUTION

3.01 PREPARATION:

A. Prior to ordering the light fixtures:
   1. Consult with the installer of the ceilings to ensure that the correct fixture trim is supplied and installed. Provide the supports and accessories required for installation in each ceiling system.
   2. Verify the specified voltage with the voltage shown on the drawings to ensure the correct voltage is supplied.

3.02 INSTALLATION:

A. Comply with NECA 1.

B. Comply with NEC 410.36.

C. Furnish and install a complete lighting fixture for every outlet indicated on the drawings in order that every outlet shall be properly provided with a suitable fixture of type specified, of wattage indicated.

D. Install luminaires level, plumb, and square with ceilings and walls unless otherwise indicated.

E. LED luminaires (light fixtures) shall be installed as shown on the Drawings and in accordance with the manufacturer's recommendations.

F. Recessed lay-in type linear LED luminaires shall be supported from the building structure independently of the ceiling grids with a minimum of four (4) orange painted steel tie wires per luminaire and four (4) hurricane/earthquake style clips per UL listing or as detailed on the drawings. Hurricane/earthquake clips are to be used in lieu of bolts, screws, or rivets.

G. Recessed lay-in type linear LED luminaires installed in lay-in type ceiling tile shall be securely fastened from the building structure and be installed in the lay-in type ceiling in such a manner that the louver/lens housing may be easily opened and so that the luminaires may be removed and relocated without forcing the luminaires or changing the grid system tie wires. Coordinate with the ceiling installer before the ceiling grid is installed to assure a mutually satisfactory installation of ceiling and luminaires.

H. Surface mounted linear LED luminaires shall be supported from the building structure with a minimum of two (2) 1/4-inch threaded rods per each one (1) foot wide by four (4) foot long and a minimum of four (4) 1/4 inch threaded rods per each two (2) foot wide by four (4) foot long luminaire as detailed on the Drawings.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

I. Surface mounted non-linear LED luminaires and exit lights shall be supported from the building structure with a minimum of two (2) 1/4 inch threaded rods per luminaire or exit light.

J. 1-1/2- inch x 1-1/2- inch steel framing channel shall be used where required to span bar joists and otherwise facilitate structural support for luminaires and exit lights.

K. Supports shall not terminate or be fastened directly to the roof decking.

L. Where it is necessary for a fixture to be installed directly below an air duct, install two hanger rods, one on each side of the duct, bolted to a channel or angle suspended from the hangers under the duct, and support the fixtures from the suspended channel or angle. Light fixture shall not be supported from duct.

M. Coordinate the luminaires layout with the Architect/Engineer and all other trades before the ceiling grid, air outlets, and luminaires are installed. Coordinate layout and installation of luminaires and suspension system with other construction that penetrates ceilings or is supported by them.

3.03 GENERAL CONFORMANCE:

A. Surface mounted luminaires shall not have gaps between the luminaire and attaching surface, except where required by code regulations or manufacturer's instructions.

B. Recessed luminaires shall not have gaps between the luminaire trim and the adjacent surface. Where light leaks occur, suitable gaskets shall be furnished and installed.

C. Recessed luminaires shall be connected with flexible metal conduit (maximum 6'-0" length) from outlet boxes mounted above or alongside of luminaire. Luminaires shall be wired in such a way that removal of one shall not disrupt the continuity of power to the others.

D. Comply with requirements in Division 26 Section "Low-Voltage Electrical Power Conductors and Cables" and Division 26 Section "Raceways and Boxes for Electrical Systems" for wiring connections and wiring methods.

E. Prior to final inspection, check all LED luminaires for damages during construction and replace the damaged luminaires. All luminaires shall be cleaned at the time of final acceptance of the building.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION 26 5600

LED EXTERIOR LIGHTING

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes the following:
   1. Exterior solid state luminaires that are designed for and exclusively use LED lamp technology.
   2. Luminaire supports.
   3. Poles and accessories.

B. Related Requirements:
   1. Division 26 section "Lighting Control Devices" for automatic control of lighting, including time switches, photoelectric relays, occupancy sensors, and multipole lighting relays and contactors.

1.02 REFERENCE STANDARDS

A. IESNA LM-63 - ANSI Approved Standard File Format for Electronic Transfer of Photometric Data and Related Information; 2008.

B. IES LM-79 - Approved Method: Electrical and Photometric Measurements of Solid-

C. IES State Lighting Products; Illuminating Engineering Society; 2008.

D. IES LM-80 - Approved Method: Measuring Lumen Maintenance of LED Light Sources; Illuminating Engineering Society; 2008.

E. IES LM-64 - Photometric Measurements of Parking Areas; 2007. RP-8 - American National Standard Practice for Roadway Lighting; Illuminating Engineering Society of North America; 2005 (ANSI/IES RP8).

F. NECA 1 - Standard for Good Workmanship in Electrical Construction; National Electrical Contractors Association; 2010.

G. NECA/IESNA 501 - Recommended Practice for Installing Exterior Lighting Systems; 2006.

H. NFPA 70 - National Electrical Code; National Fire Protection Association; 2023.

I. UL 1598 - Luminaires; Current Edition, Including All Revisions.

J. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

1.03 DEFINITIONS

A. BIM: Building Information Modeling.

B. Bracket: An attachment to a standard, on which a luminaire is carried.

C. CCT: Correlated color temperature.

D. CRI: Color-rendering index.

E. LED: Light Emitting Diode

F. Luminaire: A lighting device consisting of a light source together with its direct appurtenances, including, reflector, reflector housing, driver housing (if provided) and such support as is integral with the housing. The standard and bracket are not part of the luminaire.

G. Pole: Luminaire support structure, including tower used for large area illumination.

H. Standard: Same definition as "Pole" above.
   1. Internal attachments for wiring.
   2. External attachments for brackets (if any) and luminaire.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1.04 DESCRIPTION

A. Furnish and install LED luminaires complete with proper reflectors, diffusers, louvers, house side shields, glassware, concrete bases, gaskets, shims, wiring, control, conduit, hardware, photo-controls, electronic digital time clocks, and other appropriate devices and parts for a complete exterior weatherproof lighting installation.

1. Each luminaire shall be complete with prewired integral drivers and optical (LED) assemblies.

B. Luminaires that require remote mounting of any components needed for its operation, such as drivers, or light engine electronics are not permitted. All components needed to make the luminaire operational shall be integral to the fixture housing.

C. Luminaires shall have a minimum IP rating of IP65 or IP66.

1.05 SUBMITTALS

A. Refer to Division 01 section “Submittals” and Division 26 section “General Electrical Requirements”.

B. Product Data: For each luminaire, pole, and support component, arranged in order of lighting unit designation. Include data on features, accessories, finishes, shall include but not be limited to the following:

1. Arrange in order of luminaire description.
2. Physical description of luminaire, including materials, dimensions, effective projected area, and verification of indicated parameters.
3. Provide for each type of fixture, pole, and standard:
4. Type.
5. Wattage.
6. Voltage.
7. Efficiency.
8. Suspension.
9. Glassware.
10. Finished diameters.
11. Mounting heights.
12. Drivers.
13. Length and diameter of poles and standards.
14. Appurtenances.
15. Photometric point by points shall be provided if the basis of design fixtures are not provided.
16. Cast-in-place concrete pole foundation details.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Poles may be stored on-site (for a short period of time) only if they do not impact the day-to-day operations of this Project.

B. Package poles for shipping according to ASTM B 660.

C. Store poles on decay-resistant-treated skids at least 12 inches above grade and vegetation. Support poles to prevent distortion and arrange to provide free air circulation.

D. Retain factory-applied pole wrappings on metal poles until right before pole installation. For poles with nonmetallic finishes, handle with web fabric straps.

E. Deliver glassware and lamps in their original cartons, clearly labeled.

F. Luminaires, wiring, control equipment, etc. shall be stored offsite until they are ready for assembly and erection. On-site storage is permitted provided all items are stored in secure and dry locations.

G. This Contractor is responsible for any damage or theft to any materials left on-site.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1.07 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship; that corrode; or that fade, stain, perforate, erode, or chalk due to effects of weather or solar radiation within specified warranty period. Manufacturer may exclude lightning damage, hail damage, vandalism, abuse, or unauthorized repairs or alterations from special warranty coverage.

1. Warranty Period for Luminaires: Five (5) years from date of Substantial Completion.
2. Warranty Period for Metal Corrosion: Five (5) years from date of Substantial Completion.
3. Warranty Period for Color Retention: Five (5) years from date of Substantial Completion.
4. Warranty Period for LED Luminaires: All luminaires shall have a minimum five (5) year factory warranty for defective or non-starting power supply units (driver) and LED source assemblies, which includes, but not limited to:
   a. LED Package.
   b. LED Arrays,
   c. LED Modules.
   d. LED die, encapsulate, and phosphor.
5. Warranty Period for Poles: Repair or replace lighting poles and standards that fail in finish, materials, and workmanship within manufacturer's standard warranty period, but not less than five (5) years from date of Substantial Completion.

1.08 FIELD CONDITIIONS

A. Verify existing and proposed utility structures prior to the start of work associated with luminaire installation.

B. Mark locations of exterior luminaires for approval by the Architect/Civil Engineer/Electrical Engineer prior to the start luminaire installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Exterior luminaires supplied shall be complete with proper reflectors, diffusers, house side shields, louvers, glassware, concrete bases, gaskets, pole arms, collars, shims, wiring control, conduit, hardware, and other appropriate devices and parts for a complete exterior weatherproof lighting installation.

B. Adjustable luminaires shall be aimed as directed by the Architect/Engineer.

C. Basis of Design: Refer to the Lighting Fixture Schedule on the drawings:

1. Manufacturers: Provide light fixtures by one of the manufacturers listed in the “Lighting Fixture Schedule”.

2.02 LUMINAIRES, GENERAL REQUIREMENTS

A. Exterior/security luminaires shall have the proper reflectors, diffusers, house side shields, louver, gaskets, pole arms, collars, shims, wiring control, conduit, hardware, and other appropriate devices and parts for a complete exterior weatherproof lighting installation.

B. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.

C. Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.

D. Metal Parts: Free of burrs and sharp corners and edges.

E. Sheet Metal Components: Corrosion-resistant aluminum, unless otherwise indicated. Form and support to prevent warping and sagging.

F. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

G. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during servicing and when secured in operating position. Doors shall be removable for cleaning or replacing lenses. Exposed Hardware Material: Stainless steel.

H. Plastic Parts: High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.

I. Light Shields: Metal baffles, factory installed and field adjustable, arranged to block light distribution to indicated portion of normally illuminated area or field.

J. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:
   1. White Surfaces: 85 percent.
   2. Specular Surfaces: 83 percent.
   3. Diffusing Specular Surfaces: 75 percent.
   4. Laminated Solver Metalized Film: 90 percent.

K. Lenses and Refractors Gaskets: Use heat- and aging-resistant resilient gaskets to seal and cushion lenses and refractors in luminaire doors.

L. Luminaire Finish: Manufacturer's standard paint applied to factory-assembled and -tested luminaire before shipping. Where indicated, match finish process and color of pole or support materials.

M. Factory-Applied Finish for Steel Luminaires: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
   1. Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning," to remove dirt, oil, grease, and other contaminants that could impair paint bond. Grind welds and polish surfaces to a smooth, even finish. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning" or SSPC-SP 8, "Pickling"
   2. Exterior Surfaces: Manufacturer's standard finish consisting of one or more coats of primer and two finish coats of high-gloss, high-build polyurethane enamel.
      a. Color: As selected by Architect from manufacturer's full range or as indicated on the Drawings.

N. Factory-Applied Finish for Aluminum Luminaires: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
   1. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
   2. Natural Satin Finish: Provide fine, directional, medium satin polish (AA-M32); buff complying with AA-M20; and seal aluminum surfaces with clear, hard-coat wax.
   3. Class I, Clear Anodic Finish: AA-M32C22A41 (Mechanical Finish: medium satin; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 611.
   4. Class I, Color Anodic Finish: AA-M32C22A42/A44 (Mechanical Finish: Medium satin; Chemical Finish: Etched, medium matte; Anodic Coating: Architectural Class I, integrally colored or electrolytically deposited color coating 0.018 mm or thicker) complying with AAMA 611.
      a. Color: As selected by Architect from manufacturer’s full range or as indicated on the drawings.

O. Factory-Applied Labels: Comply with UL 1598. Include recommended LED power supply and Light Emitting Diode type. Labels shall be located where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.
   1. Label shall include the following:
      a. “USES ONLY” and include driver and light engine.
      b. CCT and CRI for all luminaires.

P. Exterior Luminaries: All exterior luminaries shall be “International Dark Sky” (IDA) compliant and Nighttime Friendly Stamp of Approval”.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Q. Source Limitations: For luminaires, obtain each color, grade, finish, type, and variety of luminaire from single source with resources to provide products of consistent quality in appearance and physical properties.

2.03 LED POWER SUPPLY UNIT (DRIVERS)

A. General Requirements
   1. Luminaire shall be UL-listed for wet locations and wiring cavity must be field accessible for service or repair needs.
   2. Luminaire shall be full cutoff or fully shielded as defined by IESNA RP-8. Alternatively, the full cutoff can be validated by meeting the following IESNA TM-15 B.U.G. (Backlight, Uplight, and Glare) ratings :
      a. Maximum uplight (U) rating of U0 .
      b. Maximum glare (G) rating equal to G0 for residential areas and G2 for all other areas.
   3. Optical system for roadway and area luminaires shall be sealed and rated for IP 66 as defined in EN 60529.
   4. Luminaire shall be fully assembled and electrically tested prior to shipment from factory.
   5. Color: As selected by Architect from manufacturer's full range or as indicated on the Drawings.
      a. The coating must be capable of surviving ASTM B 117 Salt Fog environment for 1000 hours minimum without blistering or peeling.
      b. The coating shall demonstrate gloss retention of greater than or equal to 90% for 1000 hours exposure QUV test per ASTM G 154 UVB-313 Lamps, 4 hours Condensation 50 °C.
   6. Luminaire shall be tested according to IEC 60068-2-14 for thermal shock. Luminaire shall be fully functional after completion of testing.
   7. Luminaire shall be tested according to IEC 60068-2-30, damp heat, steady state, for high humidity and high temperatures. Luminaire shall be fully functional after testing.
   8. Luminaire arm bolts shall be 304 stainless steel or zinc plated steel.
   9. Produce a minimum efficacy of 60 lumens per Watt driven at 350mA or a minimum of 50 lumens per Watt driven at 525mA tested per IESNA LM-79.
   10. Theoretical models of initial raw LED lumens per watt are not acceptable.
   11. Incorporate modular electrical connections and construct luminaire to allow replacement of all or any part of the optics, heat sinks, power supply units, and electrical components using only a simple tool, such as a screwdriver.
   12. Luminaire shall have a nameplate bearing the manufacturer's name, address, model number, date of manufacture, and serial number securely affixed in a conspicuous place; the nameplate of the distributing agent will not be acceptable.
   13. Fixture weight and effective projected area (EPA) shall not exceed the pole requirements for wind loading. Provide wind loading calculations.
   14. Roadway and area luminaires shall have an integral tilt adjustment of +/- 5º to allow the unit to be leveled, in accordance with ANSI C136.3.
   15. Luminaire shall pass 3G vibration testing in accordance with NEMA C136.31. Provide LED Luminaire IESNA LM-79 Report and LED Luminaire IESNA LM-80 Report.

B. Luminaires shall be equipped with LED driver(s) that accepts the voltage as indicated on the “Lighting Fixture Schedule”. Individual drivers shall be replaceable.

C. UL 1598 and UL 8750, Class 2. Provide luminaires as indicated. Provide luminaries complete with LED light source and power supply unit.

D. Individual driver(s) shall be equipped with surge protection in accordance with IEEE/ANSI C62.4.1 and shall be rated for a category “C” environment.
   1. Building Mounted Units: 6kV minimum.
   2. Pole Mounted Units: 10kV minimum.

E. Low-Temperature Driver Capability: Rated by its manufacturer for reliable starting and operation of indicated lamp(s) at temperatures minus 40 deg C to deg C with THD of and higher.

F. Driver Characteristics:
   1. Power Factor: 90 percent, minimum.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

2. Sound Rating: A.
3. Total Harmonic Distortion Rating: Less than 10 percent.
4. Electronic Drivers: Comply with ANSI C82.1, energy-saving, high power factor, Class P, automatic-reset thermal protection.
5. Case Temperature for Compact Lamp Drivers: 65 deg C, maximum.
6. Transient-Voltage Protection: Comply with IEEE C62.41 Category A or better.
7. Provide UL listed for wet locations with enclosure classified IP66 per IEC 529.

G. Low-Temperature LED Capability: Rated for reliable starting and operation with driver provided at temperatures minus 20 deg C and higher.

H. Wiring

1. All factory electrical connections shall be made using crimp, locking, or latching style connectors. Twist style wire nuts are not acceptable.

I. Driver Characteristics

1. Power Factor: 90%, minimum.
2. Sound Rating: A
3. Total Harmonic Distortion Rating: Less than 10%.
4. Electronic Drivers: Comply with ANSI C82.1, energy-saving, high power factor, Class P, automatic reset thermal protection.
5. Designed to operate on voltage system to which they are connected ranging from 120V to 277V nominal,
6. Operating frequency: 60 Hz.
7. FCC Part 15 Class B.
8. Reduction of Hazardous Substances (RoHS) compliant.
9. Case Temperature for Compact Lamp Drivers: 65 deg C, maximum.
10. Transient Voltage Protection: Comply with IEEE C62.41 Category A or better.
11. Provide UL listed for wet locations with enclosure classified IP66 per IEC 529.

J. Low Temperature LED Capability: Rated for reliable starting and operation with driver provided at temperatures minus 20 deg C and higher.

2.04 LED LIGHT SOURCE (LIGHT ENGINES)

A. All LED light engine(s) shall be set to achieve IES, Type III, Type IV, or Type V distribution as shown on “Lighting Fixture Schedule”. Individual light engine(s) shall be replaceable.
B. Luminaires must be rated for operation in ambient temperatures of -22 deg F to 104 deg F.
C. Correlated Color Temperature (CCT) shall be in accordance with NEMA ANSLG C78.377.
D. All LEDs shall be installed with zero (0) lumen above 90° up from nadir (full cut-off) performance.
E. LED dies shall be tested in accordance with IESNA LM-80-08 standards.
F. Thermal management shall be passive by design and shall consist of heat sinks with no fans, pumps, or liquids.
G. LED Lamps: High Power, white, 3000 K (+/- 500K per full fixture), minimum 70 CRI, long life LED sources, number of lamps as shown on “Lighting Fixture Schedule”.
H. Color temperature variation shall not exceed +/1 100 degrees Kelvin at installation, and at +/- 200 degrees Kelvin over the life of the module.
I. LED light engine(s) shall deliver at least 70% of initial lumens, when installed in-situ, for a minimum of 50,000 hours at 40 deg C.
J. Mechanically fasten board to heat sink as required to meet LED manufacturer’s heat dissipation requirements.
K. Surge Protection

1. Provide surge protection integral to luminaire to meet “C Low” waveforms as defined in IEEE C62.41.S, Scenario 1 Location Category C.

2.05 POLES AND SUPPORT COMPONENTS, GENERAL REQUIREMENTS

A. Furnish hot-dipped galvanized anchor bolts, plywood or steel templates, ground rods, conduit elbows, and base information, etc. for the installation of concrete bases as detailed on the Drawings.
B. Poles shall be of the height and with brackets, etc. as indicated on the “Lighting Fixture Schedule”.

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C. Structural Characteristics: Comply with AASHTO LTS-4.
   1. Wind-Load Strength of Poles: Adequate at indicated heights above grade without failure, permanent deflection, or whipping in steady winds of speed indicated in Part 1 "Structural Analysis Criteria for Pole Selection" Article, with a gust factor of 1.3.
   2. Strength Analysis: For each pole, multiply the actual equivalent projected area of luminaires and brackets by a factor of 1.1 to obtain the equivalent projected area to be used in pole selection strength analysis.
D. Luminaire Attachment Provisions: Comply with luminaire manufacturers' mounting requirements. Use stainless-steel fasteners and mounting bolts, unless otherwise indicated.
E. Mountings, Fasteners, and Appurtenances: Corrosion-resistant items compatible with support components.
F. Materials: Shall not cause galvanic action at contact points.
G. Anchor Bolts, Leveling Nuts, Bolt Caps, Lock Washers and Flat Washers: Hot-dip galvanized after fabrication, unless stainless-steel items are indicated.
   1. Leveling nuts and flat washers shall be installed underneath pole base, with flat washers, lock washers and nuts on top of pole base.
H. Anchor-Bolt Template: Plywood or steel.
I. Handhole: Oval-shaped, with minimum clear opening of 2-½ by 5 inches, with cover secured by stainless steel captive screws.
J. Concrete Pole Foundations: Cast in place, with anchor bolts to match pole-base flange. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."

2.06 STEEL POLES

A. Poles: Comply with ASTM A 500, Grade B, carbon steel with a minimum yield of 46,000 psig; 1-piece construction up to 20 feet in height with access handhole in pole wall. Provide metal, raceway-type, lighting poles and standards, of sizes and types indicated, comprised of shafts and tenon joints. Equip with grounding connections readily accessible from handhole or transformer base access doors; and construct of additional construction features:
   1. Shape: Square.
   2. Mounting Provisions: Butt flange for bolted mounting on foundation or breakaway support.
   3. Parking Lot Mounting Height: Mount luminaire lens at 19-feet, six-inches above finished grade elevation. Adjust pole height to match base detail and ensure final height at luminaire lens is 20’-0” above finished grade elevation.
   4. Pole Light Others: Refer to “Lighting Fixture Schedule” for pole height.
B. Steel Mast Arms: Single-arm type, continuously welded to pole attachment plate. Material and finish same as pole.
C. Brackets for Luminaires: Detachable, cantilever, without underbrace.
   1. Adapter fitting welded to pole and bracket, then bolted together with stainless-steel bolts.
   2. Cross Section: Tapered oval, with straight tubular end section to accommodate luminaire.
   3. Match pole material and finish.
D. Pole-Top Tenons: Fabricated to support luminaire or luminaires and brackets when indicated, and securely fastened to pole top.
E. Intermediate Handhole and Cable Support: Weathertight, 3-by-5-inch handhole located at midpoint of pole with cover for access to internal welded attachment lug for electric cable support grip.
F. Grounding and Bonding Lugs: Welded 1/2-inch threaded lug, complying with requirements in Division 26, Section "Grounding and Bonding for Electrical Systems," listed for attaching grounding and bonding conductors of type and size listed in that Section, and accessible through handhole.
G. Cable Support Grip: Wire-mesh type with rotating attachment eye, sized for diameter of cable and rated for a minimum load equal to weight of supported cable times a 5.0 safety factor.
H. Prime-Coat Finish: Manufacturer's standard prime-coat finish ready for field painting.
I. Galvanized Finish: After fabrication, hot-dip galvanize complying with ASTM A 123.

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J. Factory-Painted Finish: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
   1. Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning," to remove dirt, oil, grease, and other contaminants that could impair paint bond. Grind welds and polish surfaces to a smooth, even finish. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning," or SSPC-SP 8, "Pickling."
   2. Interior Surfaces of Pole: One coat of bituminous paint, or otherwise treat for equal corrosion protection.
   3. Exterior Surfaces: Manufacturer's standard finish consisting of one or more coats of primer and two finish coats of high-gloss, high-build polyurethane enamel.
      a. Color: As selected by Architect from manufacturer’s full range or as indicated on the drawings.

2.07 POLE ACCESSORIES

A. Base Covers: Manufacturers' standard metal units, arranged to cover pole's mounting bolts and nuts. Finish same as pole.

2.08 BASIS OF DESIGN

A. Basis of Design: Refer to the Lighting Fixture Schedule on the drawings.
B. Manufacturer: Provide light fixtures listed in the “Lighting Fixture Schedule”.

PART 3 - EXECUTION

3.01 LUMINAIRE INSTALLATION

A. Exterior luminaries shall be installed as shown on the drawings and in accordance with Manufacturer’s recommendations.
B. Fasten luminaire to indicated structural supports.
   1. Use fastening methods and materials selected to resist seismic forces defined for the application and approved by manufacturer.
   2. Sized and rated for luminaire weight.
   3. Able to maintain luminaire position after cleaning.
   4. Support luminaires without causing deflection of finished surface.
   5. Luminaire-mounting devices shall be capable of supporting a horizontal force of 100 percent of luminaire weight and a vertical force of 400 percent of luminaire weight.
C. Wall-Mounted Luminaire Support:
   1. Attached to structural members in walls.
D. Wiring Method: Install cables in raceways. Conceal raceways and cables.
E. Coordinate layout and installation of luminaires with other construction.
F. Adjust luminaires that require field adjustment or aiming.
G. Comply with requirements in Division 26 section "Low-Voltage Electrical Power Conductors and Cables" and Division 26 section "Raceways and Boxes for Electrical Systems" for wiring connections and wiring methods.

3.02 POLE LAYOUT

A. The contractor shall layout all equipment and review locations with the Architect, Engineer, and Owner prior to construction. Pole locations shall be set by using a metal tap to the exact locations shown on the drawings.

3.03 FOUNDATIONS—CAST-IN-PLACE CONCRETE

A. Refer to structural drawings and specifications for foundation requirements.
B. Anchor bolts to match pole-base flange.
C. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."
D. Foundations shall be poured in place concrete. Concrete foundations shall be constructed of not less than 3,000 psi.

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1. The steel reinforcement within the concrete shall be protected from slippage and exposure to oxidation through voids in the concrete or exposure of the steel through porous concrete material. Provide cover as specified in ACI-318.

E. All exposed areas of concrete bases shall be trowel finished smooth and level with beveled edges. Top surface shall not vary by more than 1/8 inch in depth as measured across the widest surface. Concrete base forms leaving any imperfections shall be ground down to have a smooth finish. Concrete bases shall be finished to remove all concrete form imperfections.
F. All concrete shall be fully vibrated.
G. Reinforcing steel shall meet ASTM A615 and Grade 60.
H. Cast-in-place foundations anchor bolt projections must allow for the thickness of the base plate, nuts (including leveling nuts), and raking if required. Adjust leveling nuts before installing the pole. They should be in a horizontal plane.
I. Reinforcing steel in cast-in-place foundations must not be welded to the anchor bolts. Care must be taken not to disturb the position of the anchor bolts while pouring concrete.
J. Orientation of the foundation anchor bolts in relation to the direction of the lighting must be checked carefully using the manufacturer's drawings, contract drawings and specifications.

3.04 POLE INSTALLATION

A. Align pole foundations and poles for optimum directional alignment of luminaires and their mounting provisions on the pole.
   1. Parking lot finished fixture heights from grade to the luminaire lens shall be 19-feet 6-inches. Adjust pole height to match base detail and ensure final height from bottom of luminaire lens is 19-feet 6-inches above finished grade elevation.
   2. Pole Light Others: Refer to "Lighting Fixture Schedule" for pole height.
B. Clearances: Maintain the following minimum horizontal distances of poles from surface and underground features, unless otherwise indicated on Drawings:
   1. Fire Hydrants and Storm Drainage Piping: 60 inches.
   2. Water, Gas, Electric, Communication, and Sewer Lines: 10 feet.
   3. Trees: 15 feet.
C. Transportation, site handling, and erection of the poles shall be performed by qualified personnel with equipment and methods that are in accordance to standard industry practice.
   1. Web fabric slings (not chain or cable) shall be used to raise and set poles. Protect equipment during installation to prevent corrosion.
D. Prior to unloading the pole(s), shop drawings shall be reviewed to identify proper pick-up points for unloading, storage, and erection problems. A thru-hole shall be provided at the proper pick-up point for the purpose of inserting a steel bar to act as a stop to the cable choker when erecting the pole.
E. Align pole foundations and poles for optimum directional alignment of luminaires and their mounting provisions on the pole.
F. Install poles and other structural units level, plumb, and square. Orientation of the cast-in-place foundation anchor bolts in relation to the direction of the lighting must be checked carefully using the manufacturer's drawings, contract drawings, and specifications.
G. Pole steel base plates shall not be installed until concrete has reached the specified 28 day strength.
H. After installation is complete, the Contractor shall plug with suitable semi-permanent material any alignment or installation aid or other unused holes or cavities in the poles to prevent them serving as harboring for insects and to prevent tampering. Material used shall be of the same color as the pole.
I. Concrete Pole Foundations: Set anchor bolts according to anchor-bolt templates furnished by pole manufacturer. Concrete materials, installation, and finishing requirements are specified in Division 03, Section "Cast-in-Place Concrete."
J. Foundation-Mounted Poles: Mount pole with leveling nuts, and tighten top nuts to torque level recommended by pole manufacturer.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

1. Use anchor bolts and nuts selected to resist seismic forces defined for the application and approved by manufacturer.
2. Grout void between pole base and foundation. Use non-shrink or expanding concrete grout firmly packed to fill space.
3. Install base covers, unless otherwise indicated.
4. Use a short piece of 1/2-inch- diameter pipe to make a drain hole through grout. Arrange to drain condensation from interior of pole.

K. Electrical Conduit: Electrical power conduit shall be UL Wet-Listed for underground use. Bury conduit minimum 36-inches deep and provide warning tape above entire length of conduit.

1. All power wiring shall be installed in continuous watertight raceway suitable for direct burial underground use.

3.05 CORROSION PREVENTION

A. Steel Conduits: Comply with Division 26 section "Raceway and Boxes for Electrical Systems." In concrete foundations, wrap conduit with 0.010-inch- thick, pipe-wrapping plastic tape applied with a 50 percent overlap.

3.06 GROUNDING

A. Ground nonmetallic poles and support structures according to Division 26 section "Grounding and Bonding for Electrical Systems."

1. Install grounding electrode for each pole.
2. Install grounding conductor pigtail in the base for connecting luminaire to grounding system.
3. Ground metallic components of pole accessories and foundations.
4. Tighten connections to comply with tightening torques specified in UL 486A

3.07 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 section "Identification for Electrical Systems."

3.08 FIELD QUALITY CONTROL

A. Protect installed luminaires, poles, concrete bases from damage during construction period.
B. Prior to final inspection, this Contractor shall check all exterior luminaires, poles, and concrete bases for damages during construction and replace the damaged luminaires or poles and repair or replace the concrete bases where necessary at no additional cost to owner.
C. At the date of substantial completion, replace LED engines/drivers in exterior lighting fixtures which are observed to be noticeably dimmed after Contractor's use and testing, as judged by the Architect/Engineer, where necessary at no additional cost to the owner.
D. All luminaires shall be cleaned of dirt and debris at the time of final acceptance.
E. Luminaires shall be checked for proper orientation on pole, proper reflector orientation, proper house shields, and proper IES distribution type.
F. Illumination Observations: Verify normal operation of lighting units after installing luminaires and energizing circuits with normal power source.

1. Verify operation of photoelectric controls, electronic digital time clocks, and lighting contactor.

G. Illumination Tests:

1. Measure light intensities at night. Use photometers with calibration referenced to NIST standards. The light meter shall be in a horizontal position 36-inches above the surface for measurements. Comply with the following IESNA testing guide(s):
   a. IESNA LM-5, "Photometric Measurements of Area and Sports Lighting."
   b. IESNA LM-64, "Photometric Measurements of Parking Areas."
   c. IESNA LM-72, "Directional Positioning of Photometric Data."
2. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.

H. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

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1. For final approval, the manufacturer's representative shall provide a final report from the test results that shall provide the following items:
   a. Identification of number and location of the test grid.
   b. Actual horizontal footcandle readings taken at each test grid.
   c. Number of hours of operation.
   d. Maximum to minimum rations.

END OF SECTION

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 4-28-04

SCHOOL NAME: Seagoville E.S.

PRINCIPAL NAME: Joe McCalister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

D McCalister
PRINCIPAL

Shirley Jeffcoat
TRAINER

Rena Bynum

NOTE: The original of this form MUST be sent to the Environmental Services Division, Box 87, for file in the Management Plan. A copy of this acknowledgment may be retained by the Trainer.

C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 11-14-03

SCHOOL NAME: Seagoville E.S.

PRINCIPAL NAME: Joe McAlister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Shirley Jeffcoat
TRAINER

PRINCIPAL
Bynum 11/14/03

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C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 5-15-03

SCHOOL NAME: Seagoville E.S.

PRINCIPAL NAME: Joe McCalister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

PRINCIPAL

TRAINER

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C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 11-13-02

SCHOOL NAME: Seagoville Elem. School

PRINCIPAL NAME: Joe Mc Calister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Bynum
PRINCIPAL

Shirley Jeffcoat
TRAINER

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C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 5 - 20 - 02

SCHOOL NAME: Seagoville E.S.

PRINCIPAL NAME: Joe McCalister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Dr. Joe McCalister

PRINCIPAL

Shirley Jeffcoat

TRAINER

NOTE: The original of this form MUST be sent to the Environmental Services Division, Box 87, for file in the Management Plan. A copy of this acknowledgment may be retained by the Trainer.

C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 11-26-01

SCHOOL NAME: Seagoville E.S.

PRINCIPAL NAME: Joe McCalister

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan update and triennial Reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable and non friable asbestos at our campus.

F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Joe McCalister
PRINCIPAL

Shirley Jeffcoat
TRAINER

NOTE: The original of this form MUST be sent to the Environmental Services Division, Box 87, for file in the Management Plan. A copy of this acknowledgment may be retained by the Trainer.

C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 5-29-01

SCHOOL NAME: Seagoville Elementary

PRINCIPAL NAME: _____

TRAINER NAME: Shirley Teffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

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F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Joe McCalister
PRINCIPAL

Shirley Teffcoat
TRAINER

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C: ARECPT

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ACKNOWLEDGMENT OF RECEIPT
OF THE UPDATED AHERA MANAGEMENT PLAN AND BRIEFING

DATE: 6-6-00

SCHOOL NAME: Sargovilla Elementary

PRINCIPAL NAME: _____

TRAINER NAME: Shirley Jeffcoat

I acknowledge receipt of the updated AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

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F. Civil and criminal penalties for the violation of AHERA regulations.

G. A $200.00 project request will be charged to the school budget for the replacement of lost Inspection Reports and/or Management Plans.

Dr. McAllister
PRINCIPAL

Shirley Jeffcoat
TRAINER

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C: ARECPT

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 49th Street
Austin, Texas 78756-3199
(512) 458-7111

Robert A. MacLean, M.D.
Deputy Commissioner
Professional Services

Hermas L. Miller
Deputy Commissioner
Management and Administration

December 20, 1988

Mr. John P. Russell, Jr., P.E.
Director of Maintenance
1602 Santa Fe
Dallas, TX 75215

RE: Seagoville Elementary
305 N. Kaufman Street
Seagoville, TX 75159

Dear Mr. Russell:

The Management Plan which you submitted pursuant to 40 CFR 763.93 has been reviewed and approved.

If you have any questions regarding this review, please contact the Texas Department of Health, Occupational Safety and Health Division, 1100 W. 49th Street, Austin, Texas 78756, phone - (512) 458-7255.

Sincerely,

Joel H. Smith

Joel H. Smith, P.E., Chief
Asbestos Programs Branch
Occupational Safety and Health Division

ERB/nbi

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AHERA
MANAGEMENT PLAN REVIEW

Log Number: 001305

District Number: 257905

Local Education Agency (LEA): Dallas Independent School District

School: Seagoville Elementary
305 N. Kaufman Street
Seagoville TX 75159

Designated Person: John P. Russell Jr. P.E.

Phone 214 / 424 3520 1602 Santa Fe

Reviewed By: (signature/date) Cloud Burnside 8/3/88 Dallas TX 75215

Approved [X] Not Approved [ ]

Comments (list deficiencies):

Number of buildings: 1 Total Square Feet: 66000

build's with Asbestos: 0 Square Ft. ACM:

Friable [ ]/Non [ ] Linear Ft. ACM:

Additional Information or Comments:

Total number of buildings is not clearly stated. It should be made clear in laboratory reports which sample # refer to this plan and which don't. Letter Drafted 9-8-88.
EFB

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

DALLAS INDEPENDENT SCHOOL DISTRICT

MAINTENANCE DEPARTMENT

AHERA MANAGEMENT PLAN

SEAGOVILLE ELEMENTARY SCHOOL

Principal	Stacy T. Mosley, Jr.
Address	304 N. Kaufman Street Seagoville, TX 75159
Total Facility Square Footage:	66,000 Sq. Ft.
Inspection Date:	1-26-88 and 2-5-88
Total Bulk Samples Collected:	42
Inspection Findings	
Friable ACBM	No
Non-Friable ACBM	No
Friable Assumed ACBM	No
Non-Friable Assumed ACBM	No

I. INSPECTORS

NAME	STATE OF ACCRED.	ACCRED. NUMBER
Daniel Marple	Texas	I240
James Hargrave	Texas	I227

II. MANAGEMENT PLANNERS

Howard Cole	Texas	M-048

III. DESIGNATED ASBESTOS PROGRAM DIRECTOR

John P. Russell, Jr.	Georgia	1166

June 1, 1988 OJ35/FC-1403

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

INDEX

		PAGE
I.	BACKGROUND INFORMATION	4
	A. Building Description	4
	B. Site Plan	5
	C. Pre-AHERA Background	6
	D. Structural Asbestos Abatement Activities	7
	E. HVAC/MEP Asbestos Abatement Activities	7
II.	AHERA INSPECTION REPORT SUMMARY	8
	A. Homogeneous Area Descriptive Information	8
	B. Sampling Strategy	9
	C. Locations of Samples & Date(s) of Collection (Drawings)	10
	D. Inspection Executive Summary	11
	1. Friable Asbestos Homogeneous Areas and Their Description	11
	2. Non-Friable Asbestos Homogeneous Areas and Their Description	11
	3. Section Summary Forms From Homogeneous Areas Found to have ACM	11
III.	HAZARD ASSESSMENT CLASSIFICATIONS	12
IV.	RESPONSE ACTION RECOMMENDATIONS	13
V.	OPERATIONS AND MAINTENANCE PLANS	14
	A. Mandatory Notifications	14
	B. Minimization Recommendations	19
	C. Work Practices for the Minimization Crew	19
	D. Work Practices for the Abatement and Repair Crew	19

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

E. Disposal of Asbestos-Containing Materials 19

F. Procedures for Fiber Release Episodes 19

G. Respirator Program 19

H. Worker Training Program 20

I. Semi-Annual Facility Inspection (Periodic Surveillance) Form 22

J. Annual Management Plan Update 24

K. Triennial AHERA Reinspection 25

VI. ASBESTOS CONTROL DIVISION DOCUMENTATION 26

A. Minimization Activities Forms 26

B. Abatement and Repair Crew Documentation 26

C. Diagram of Asbestos-Containing Building Material Remaining (Only if different than Section II C.) 26

VII. LABORATORY ANALYSIS INFORMATION 27

A. Laboratory Accreditation Letter 27

B. Sample Control Report and Chain-of-Custody Form 28

VIII. AHERA ACCREDITATION INFORMATION 29

A. Assurances, Accreditation and Compliance Statement 29

B. Accreditation Certificates

IX. MISCELLANEOUS DOCUMENTATION

A. Semi-Annual Periodic Surveillance Forms

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION I BACKGROUND INFORMATION

A. BUILDING DESCRIPTION

The building design of Seagoville Elementary School is a one story brick building on a pier and beam slab with no crawl space. The assignable space is approximately 48,330 square feet. The gross area of the plan is approximately 66,000 square feet of air conditioned space. The school was completed and opened in September 1986 and is used to service pre-kindergarten through the sixth grade. Six air handler units are controlled by the Administration Building but are located inside the designed building. The roof of the school is metal.

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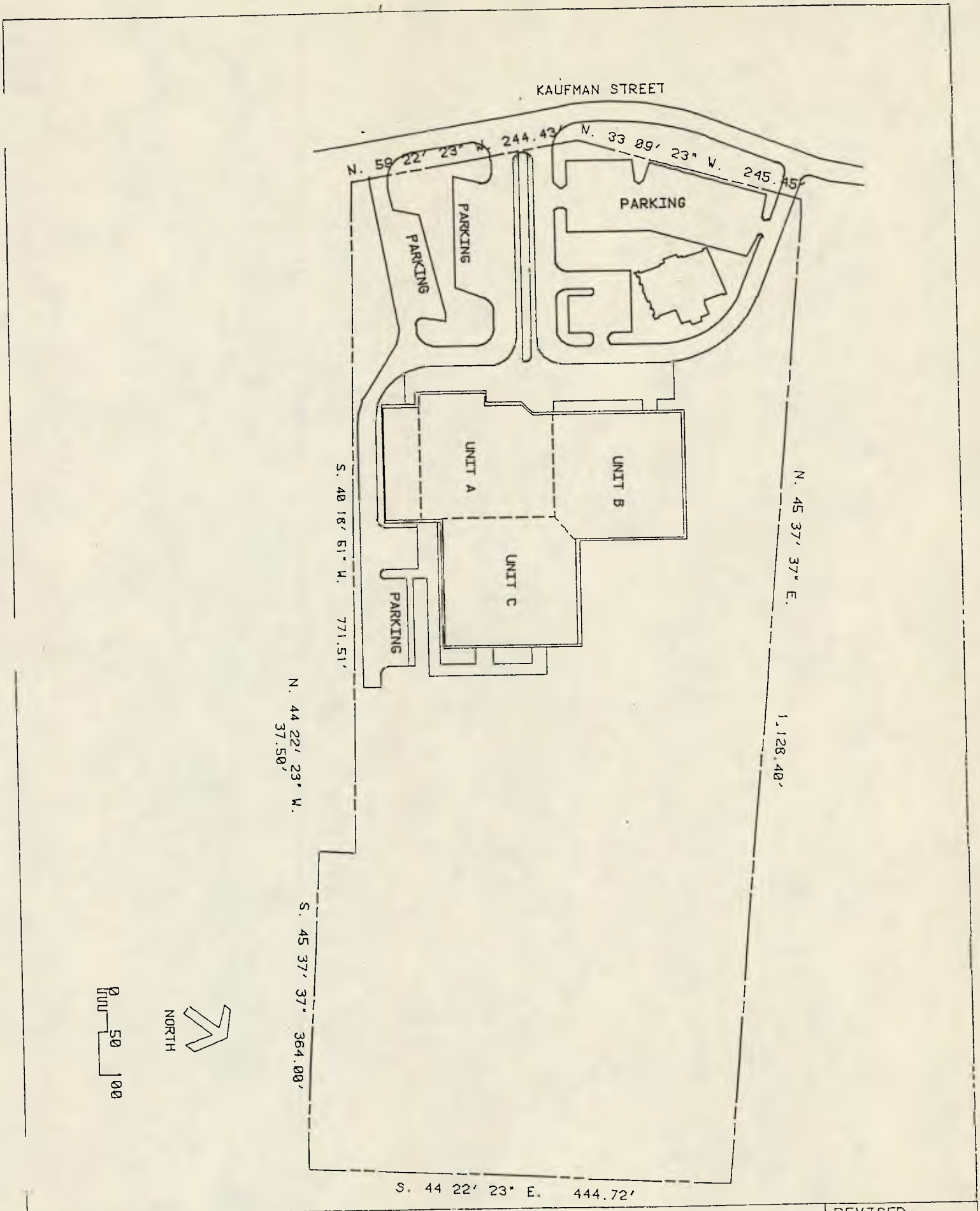
B. SITE PLAN

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



FILE NO: 20801

TITLE:
SEAGOVILLE ELEMENTARY SCHOOL
SITE PLAN
306 KAUFMAN ST.

dallas independent school district

REVISED:

5A

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

C. PRE-AHERA BACKGROUND

The Dallas Independent School District has taken a very proactive approach to addressing the hazards of asbestos in its schools. Consistently and methodically, a coordinated program to rid its facilities of this material has been implemented. The DISD Asbestos Control Program began in 1982 with the passage of the Asbestos-in-Schools Rule (40CFR-763, May 7, 1982). Shortly thereafter, a multi-disciplinary task force was created to investigate DISD's asbestos hazards and to provide guidance and leadership in this area. This Task Force employed the services of the Fireman's Fund Risk Management Services, Inc. to perform a detailed inspection and sampling of 199 locations in DISD. The Fireman's Fund Summary Report (January 5, 1983) utilized the USEPA Exposure Assessment Algorithm to access the relative hazards of the asbestos found in the majority of its campuses. A copy of this summary report, and the Fireman's Fund Risk Management Services Building Inspection Report for Seagoville Elementary maybe found in Section IX - Miscellaneous Information, Sub-Section A - located at the back of this binder.

The Fireman's Fund Industrial Hygiene consultation resulted in a recommendation by the Task Force to immediately begin abatement of the structural asbestos located in student occupied areas throughout the Dallas Independent School District. As a result, DISD embarked upon a massive program to rid its classrooms, hall ways, and other public areas of all structural friable asbestos. The cost to the Dallas Independent School District of this program has been in well excess of $11.4 million.

During the summer of 1985, the Region VI U.S. Environmental Protection Agency's interpretation of the Asbestos-in-Schools Act (40 CFR-763) was expanded to to include friable asbestos associated with Heating, Ventilation and Air Conditioning and Mechanical, Electrical and Plumbing (HVAC/MEP) Systems. This and the eminent passage of the Asbestos Hazards Emergency Response Act (Draft - April 30, 1987) resulted in the Board of Education approving the establishment of the District's Asbestos Control Team in December 1986. Initial staffing of the Asbestos Control Team was fifteen (15) positions. These positions were

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

assigned responsibility for DISD's identification, cleanup, and minimization activities. Additionally, the Asbestos Control Team is responsible for the monitoring of DISD's contract asbestos abatement projects. In late December of 1987, the final AHERA Regulation was made available to the Dallas Independent School District. After approximately two (2) months of intensive study, the Administration recommended to the Board of Education that additional resources be provided for its Asbestos Control Program. As a result, in March 1987 the Board of Education approved additional staffing and funding for the newly redesignated Asbestos Control Division. The Asbestos Control Division is currently authorized forty (40) personnel and has an annual budget exceeding $1.4 million.

Seagoville Elementary, being a new school, has not been involved in any asbestos abatement activities.

D. STRUCTURAL ASBESTOS ABATEMENT ACTIVITIES

NONE

E. HVAC/MEP ASBESTOS ABATEMENT ACTIVITIES

NONE

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Seagoville Elem.
2790

SECTION II AHERA INSPECTION REPORT SUMMARY

A. HOMOGENEOUS AREA DESCRIPTIVE INFORMATION

Homogeneous Area	Description	Type	SQ. FT./LF.
1A	Ceiling Tile	Misc.	58,000
2A	Floor Tiles (Ceramic)	Misc.	3,345
2B	Floor Tiles (Vinyl)	Misc.	820
3A	Walls Sheetrock	Misc.	10,500
3B	Walls Formica/Part. Bd.	Misc.	8,520
7	Chalk boards	Misc.	1,280
10A	Misc. ACM - Curtains	Misc.	1,000
10B	Misc. AMC - Counter Tops	Misc.	1,225

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D. INSPECTION EXECUTIVE SUMMARY

Seagoville Elementary School was constructed in 1986. The building has a metal deck with suspended tile ceilings. The floor is predominantly carpet layed over concrete, except for the cafeteria which has a ceramic floor, and a few areas which have vinyl flooring. The hall way and exterior walls are pressed wood and formica. The classrooms have gypsum walls.

The mechanical rooms including air handlers were found to contain only fiberglass and foam insulation; consequently, no thermal system insulation was sampled. This building has no crawl space.

Miscellaneous materials sampled include chalkboards, countertops, and stage curtains.

The homogeneous areas of suspect building materials are identified on a previous page. A total of forty-five (45) samples were taken and no asbestos-containing material was found in any building product.

1. FRIABLE ASBESTOS BY HOMOGENOUS AREA

No friable asbestos-containing material was found in Seagoville Elementary School.

2. NON-FRIABLE ASBESTOS BY HOMOGENOUS AREA

No non-friable asbestos-containing material was found at Seagoville Elementary School.

3. SECTION SUMMARY FORMS FROM HOMOGENEOUS AREAS FOUND TO HAVE ACM

No asbestos-containing building material is present in Seagoville Elementary School.

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B. SAMPLING STRATEGY

1. The AHERA Regulation requires that samples of these materials be collected in the following manner:

a. Thermal System Insulation: Three (3) randomly distributed bulk samples from each homogeneous area of thermal insulation.

b. Patched Thermal System Insulation: One bulk sample from each patched area of thermal system insulation less than 6 linear or square feet.

c. Fittings, Tees, Elbows, Valves: A manner sufficient to determine whether or not asbestos is present.

d. Friable and Non-Friable Miscellaneous Material: A manner sufficient to determine whether or not asbestos is present.

e. Surfacing Material: Number based on the total amount of square footage in the homogeneous area.

2. In most instances three (3) samples per homogeneous area over six (6) square fee in area were taken. In fact inspectors collected as many as seven (7) or more based on square footage.

3. Dallas Independent School District used a random convenience sampling strategy in order to collect all samples of thermal insulation and miscellaneous non-friable material; and a statistically random method for surfacing material.

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C. LOCATIONS OF SAMPLES & DATE(S) OF COLLECTION

Filed in this section are copies of the drawings depicting the locations of where samples were taken in the various homogeneous areas.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Bulk Samples Collected 12

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST	
1. CEILING	6. CHILLER
2. FLOOR	7. CHALKBOARDS
3. WALL	8. AIR HANDLERS
4. CRAWLSPACE	9. ROOF
5. MECHANICAL ROOM	10. MISC. ACM

DATE: 2/20/88

CAMPUS # 208

SECTION # E 1A

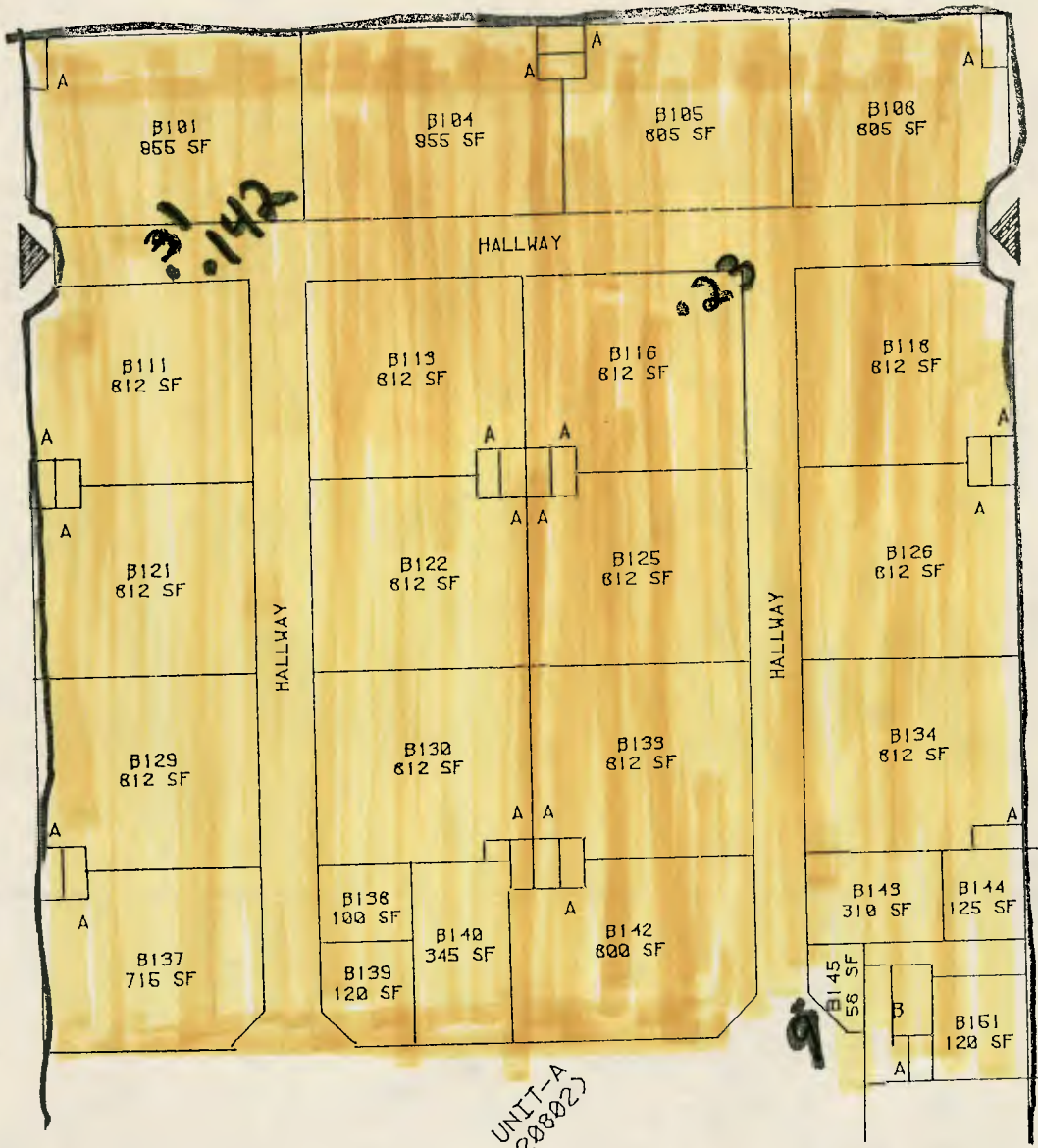
The ceilings of campus 208 are a lay-in ceiling with 24 X48 tiles in good shape with no apparent deterioration or physical damage.

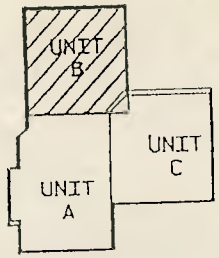
SIGNATURE David Mann

ACTMIF03

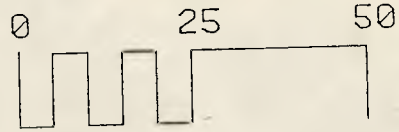
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Homogeneous area
ceiling tile
Samples #
31
142
23
9
sq. Ft. 20800
No asbestos





KEY PLAN



A=RESTROOM, 16 S.F.
B=RETSROOM, 30 S.F.

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

25, JUNE, 1986

REVISED: 10B

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-B FLOOR PLAN

FILE NO: 20803

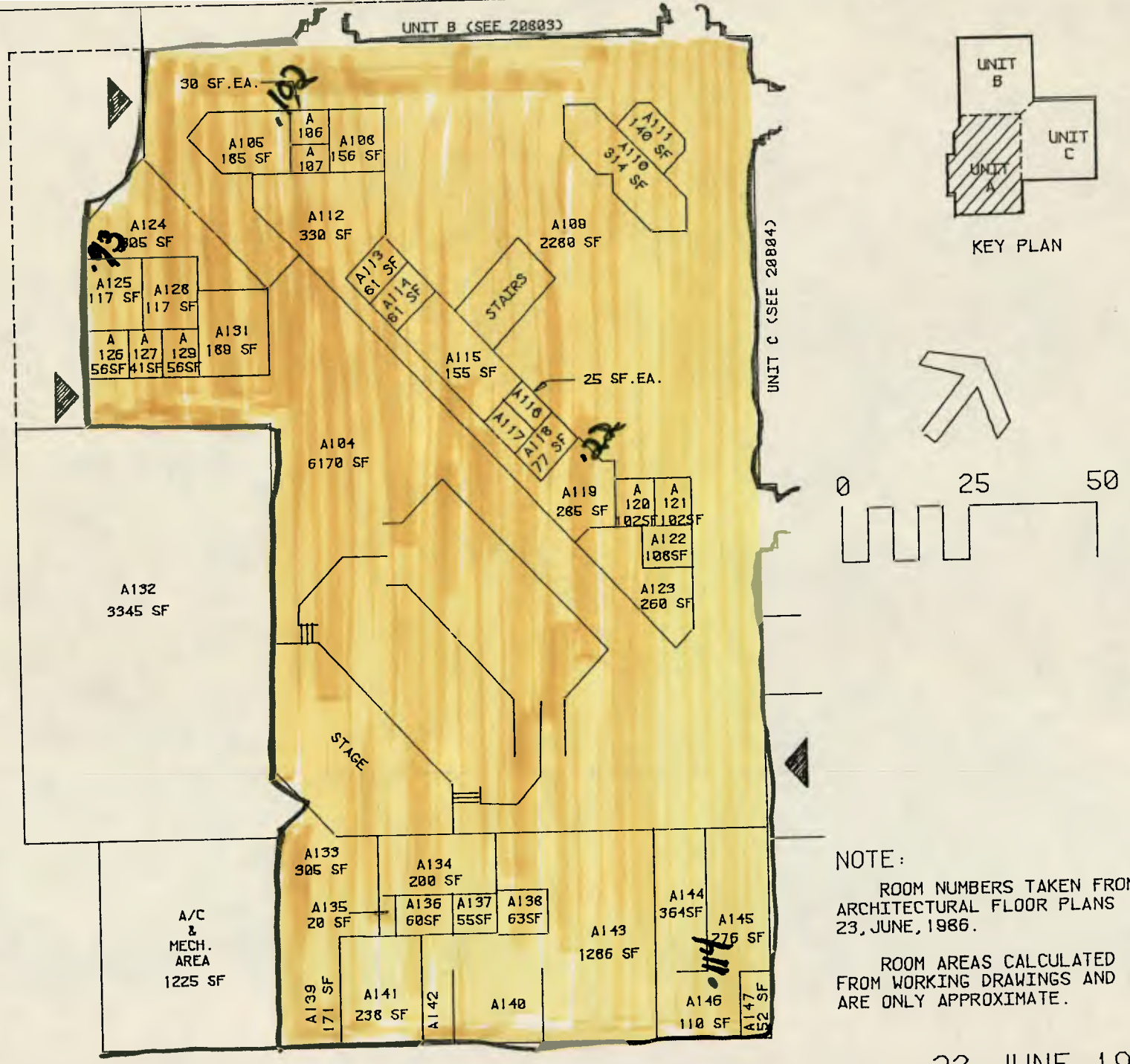
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Homogeneous area
ceiling tile

Samples #
102
93
22
114

Sq. Ft. 16230

No asbestos



KEY PLAN

NOTE:

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23, JUNE, 1986

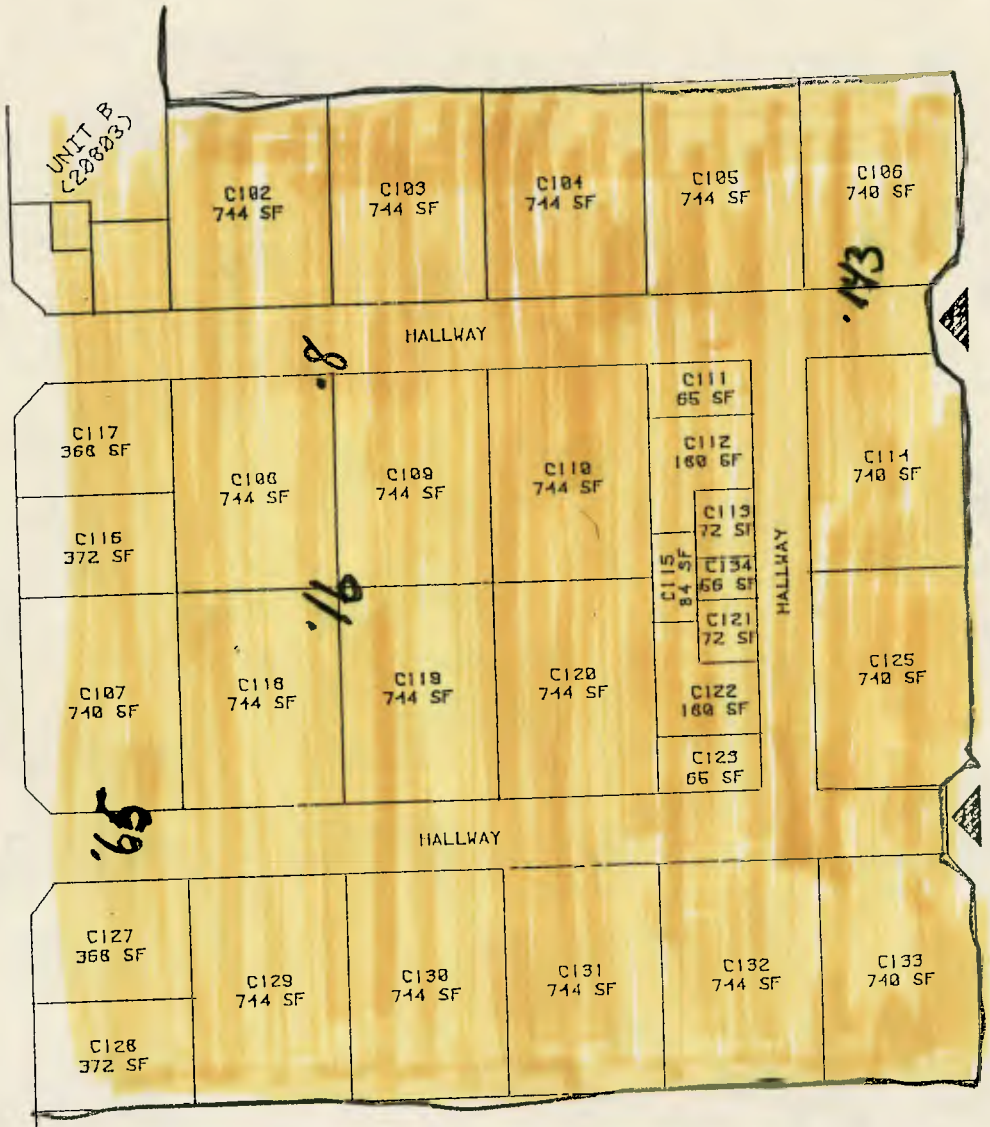
REVISED: 10C

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20803

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

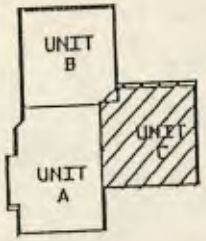


Homogeneous Area
ceiling tile

Sample #
65
16
8
143

Sq. Ft. 20800

No asbestos



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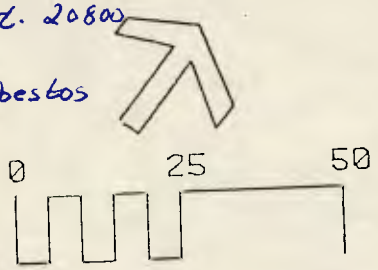


NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

24, JUNE, 1986

REVISED: 10D

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-C FLOOR PLAN

FILE NO: 20804

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Bulk Samples Collected 0

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST

1. CEILING
2. FLOOR
3. WALL
4. CRAWLSPACE
5. MECHANICAL ROOM
6. CHILLER
7. CHALKBOARDS
8. AIR HANDLERS
9. ROOF
10. MISC. ACM

DATE: 2/22/88

CAMPUS # 208

SECTION # E2A

This school campus #208, was opened for enrollment in September, 1986. It was inspected for ACBM in January, 1988 by myself and Inspector Dan Marple. Most of the floors are covered by carpet and appear to be in very good shape.

SIGNATURE Dan Marple

ACTMIF03

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Bulk Samples Collected 3

DISD

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST

1. CEILING
2. FLOOR
3. WALL
4. CRAWLSPACE
5. MECHANICAL ROOM
6. CHILLER
7. CHALKBOARDS
8. AIR HANDLERS
9. ROOF
10. MISC. ACM

DATE: 2/22/88

CAMPUS # 208

SECTION # E2A

The Teachers' Lounge area floor has been partially done in vinyl. The lounge area size is 24 feet by 16 feet. There are also 4 rooms in a kitchen area done in vinyl 8 X 8 feet in size. The rooms are numbered 127 through 130 excluding a pantry. The building Engineering office is 9 feet X 20 feet and in vinyl also.

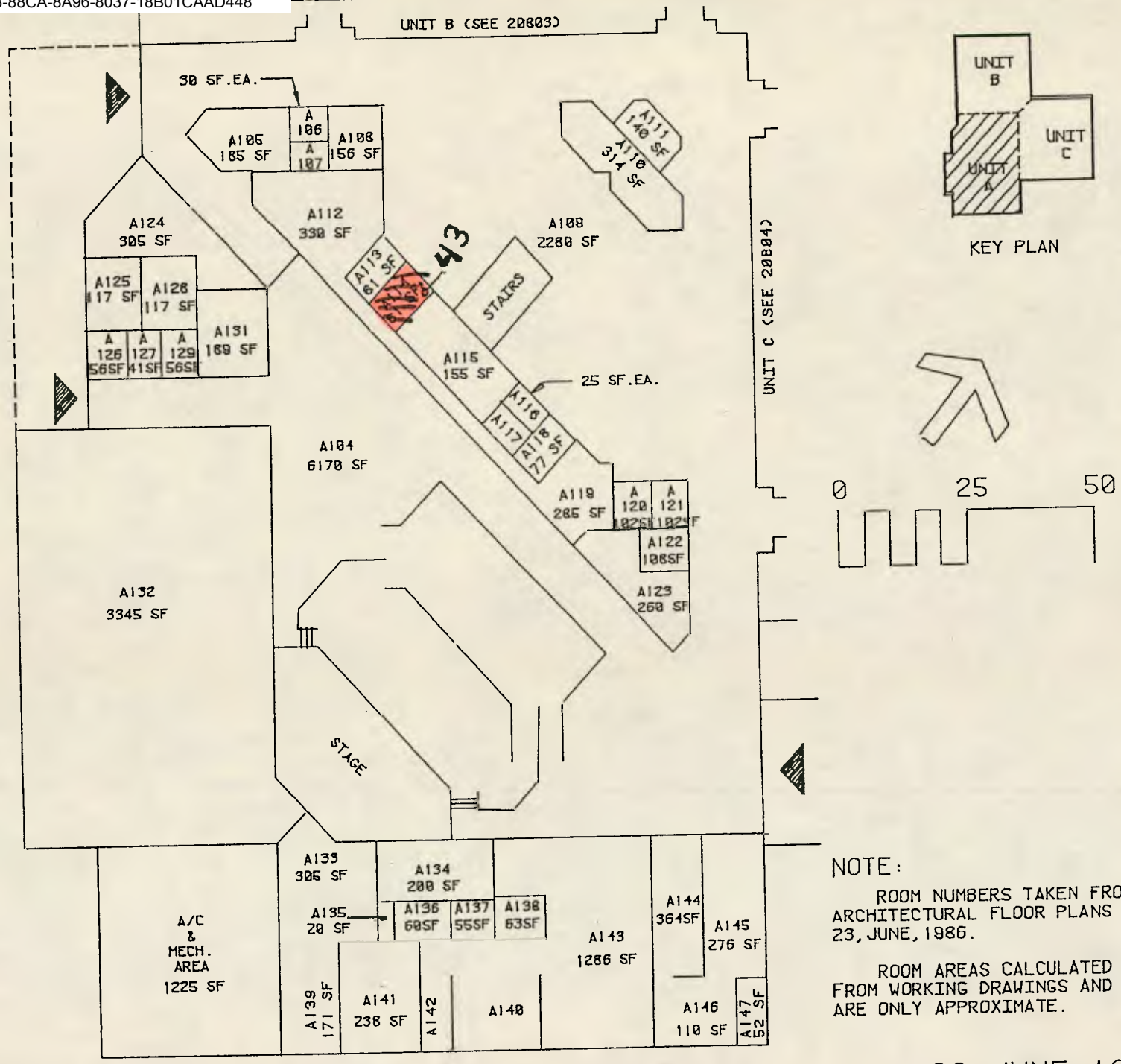
ACTMIF03

SIGNATURE Dan Mann

10G

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Homogeneous
Area
Floor vinyl
Sample #
43
Total Sq. Ft 820



KEY PLAN

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

23, JUNE, 1986

REVISED: 10H

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20802

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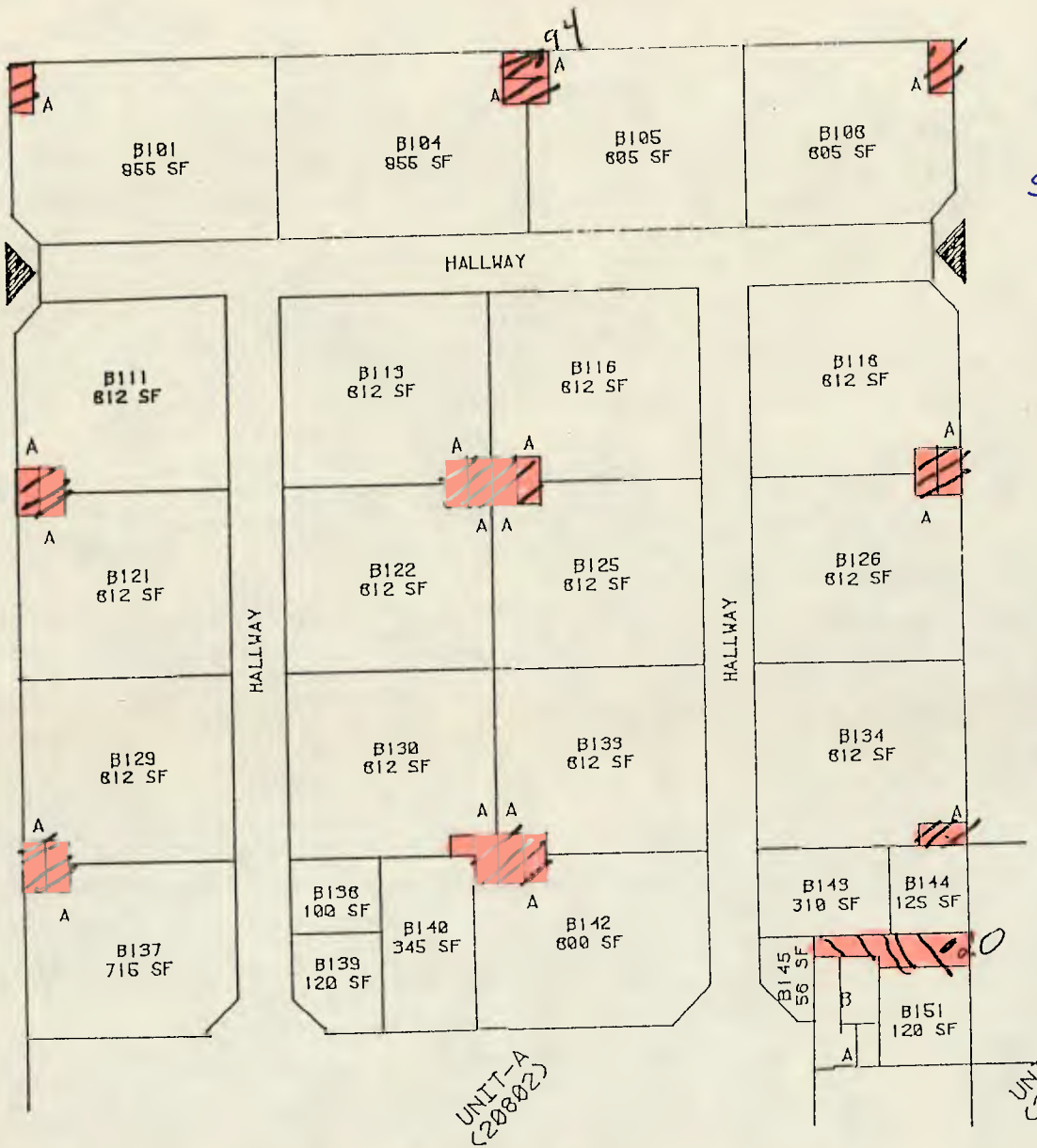
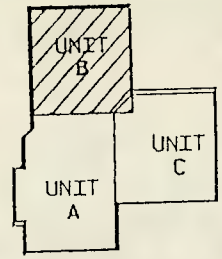
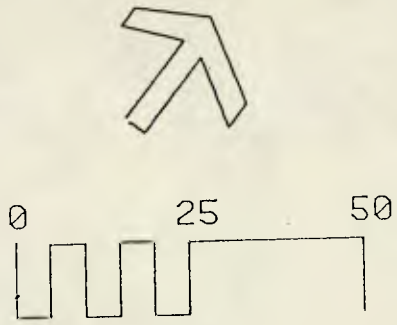


Homogeneous
Area
Floor vinyl
Sample #
44
20



KEY PLAN



A=RESTROOM, 16 S.F.
B=RETSROOM, 30 S.F.

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

25, JUNE, 1986

REVISED: 10I

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-B FLOOR PLAN

FILE NO: 20803

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Bulk Samples Collected

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST	
1. CEILING	6. CHILLER
2. FLOOR	7. CHALKBOARDS
3. WALL	8. AIR HANDLERS
4. CRAWLSPACE	9. ROOF
5. MECHANICAL ROOM	10. MISC. ACM

DATE: 2/22/88

CAMPUS # 208

SECTION # E2C

The Cafeteria has been done in ceramic tile. All tile appears to be in good shape with no deterioration.

10J

SIGNATURE Dan Mayer

ACTMIF03

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST	
1. CEILING	6. CHILLER
2. FLOOR	7. CHALKBOARDS
3. WALL	8. AIR HANDLERS
4. CRAWLSPACE	9. ROOF
5. MECHANICAL ROOM	10. MISC. ACM

DATE: 2/20/88

CAMPUS # 208

SECTION # E 3A

Wall of campus 208 in the classroom, hallways and in administrator's office areas are of formica and pressed wood.

SIGNATURE_____

ACTMIF03

10K

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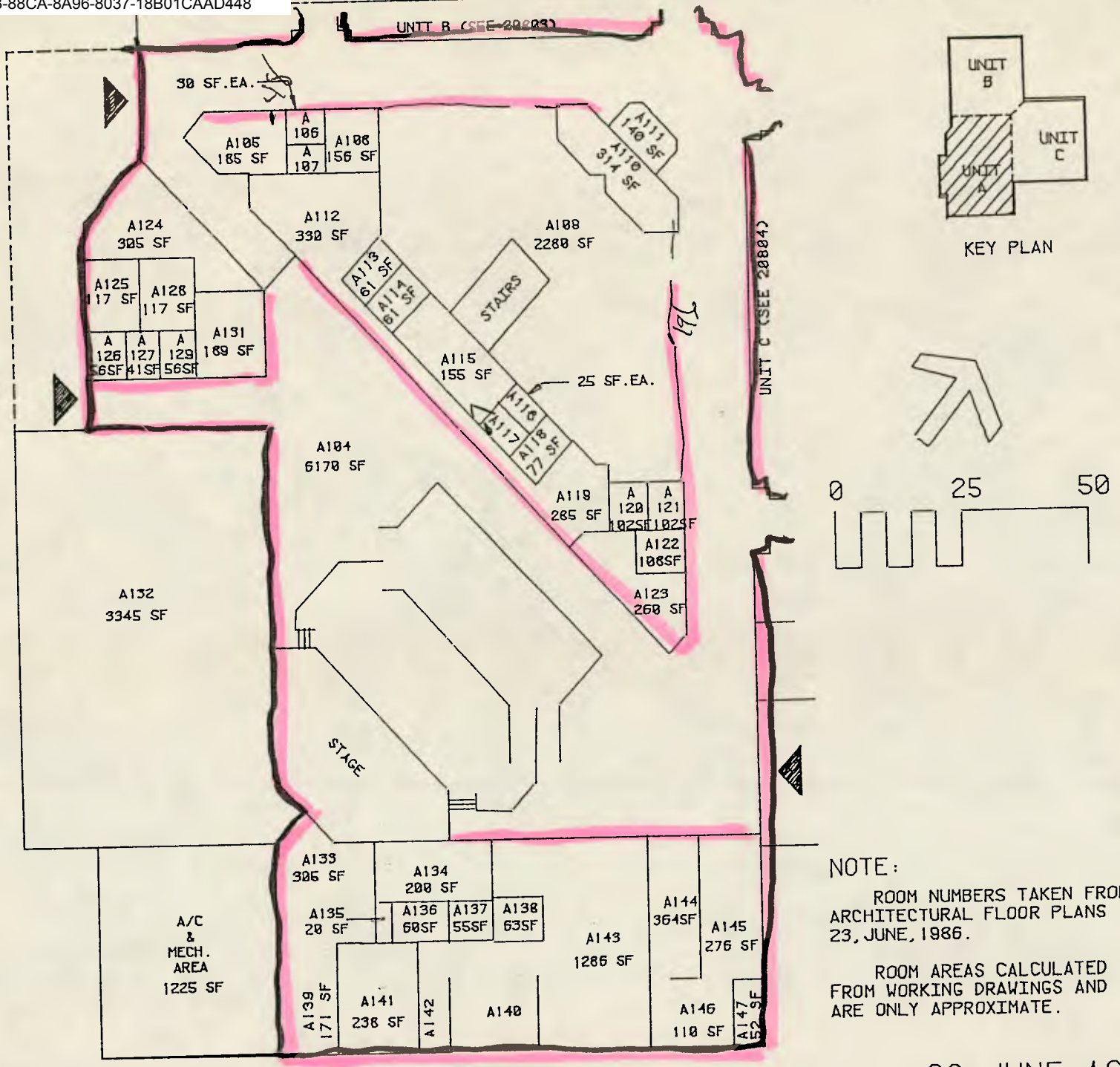
Homogeneous Area
Formica-pressed wood walls
No asbestos
Sq. Ft. 2500

Interior walls are gypsum in classrooms

Exterior walls and hallways are Formica-pressed wood



KEY PLAN

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

23, JUNE, 1986

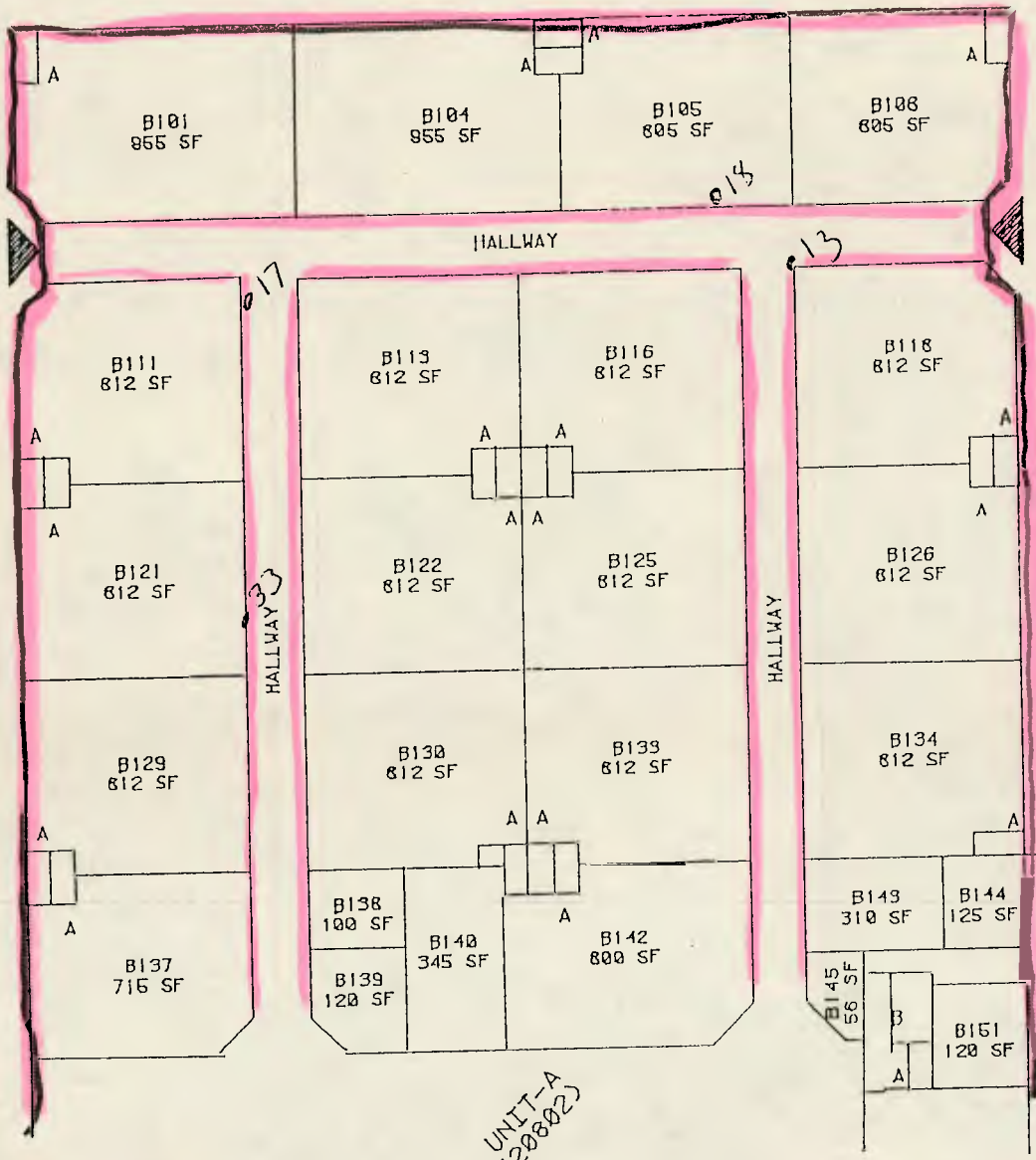
REVISED: 10L

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20802

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

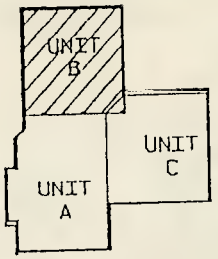


Homogeneous Area

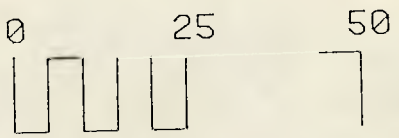
Formica - pressed wood walls

No asbestos

• Sq. Ft. 3000



KEY PLAN



A=RESTROOM, 16 S.F.
B=RETSROOM, 30 S.F.

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

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25, JUNE, 1986

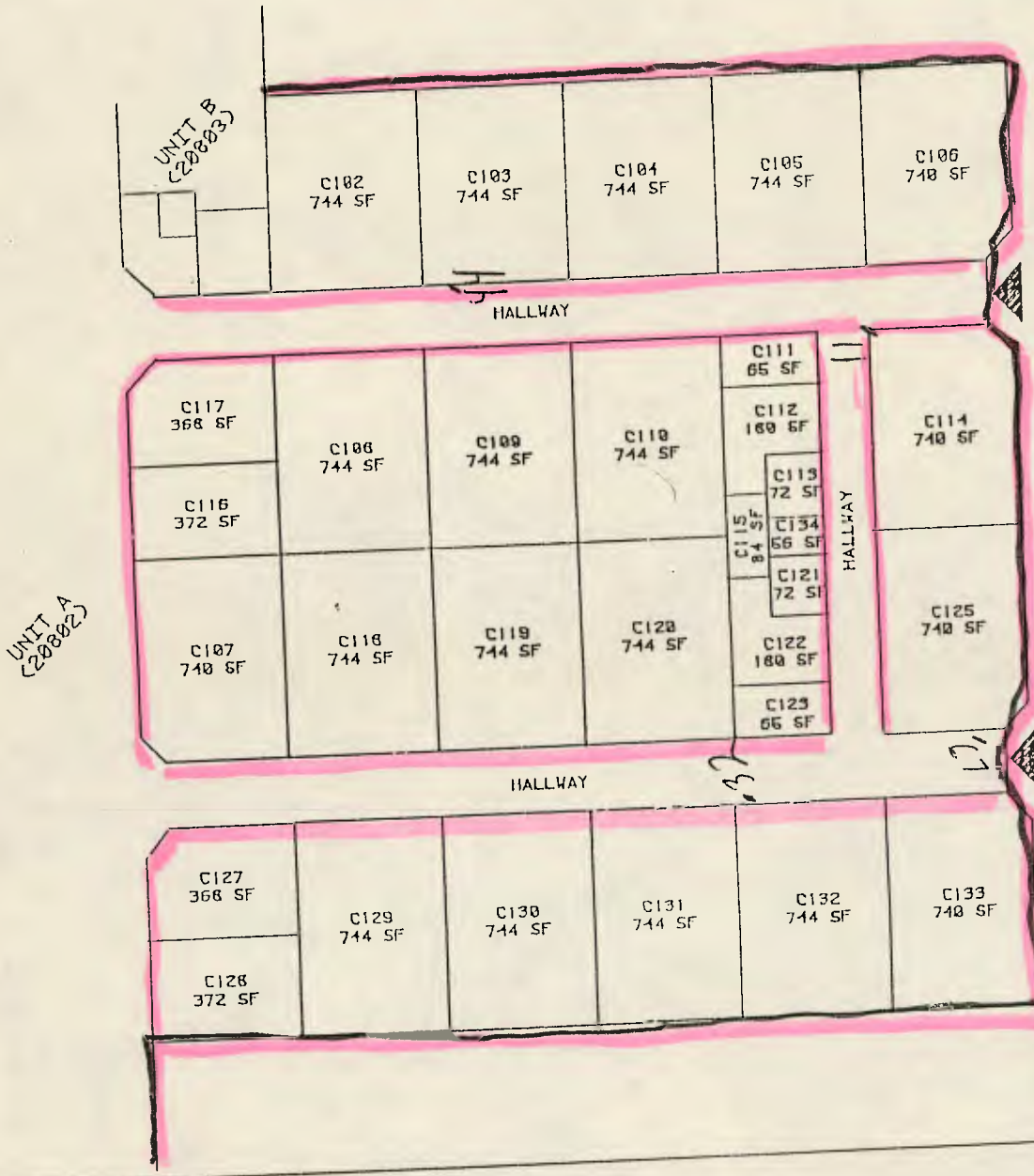
REVISED: 10M

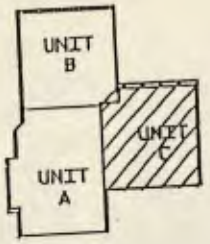
dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-B FLOOR PLAN

FILE NO: 20803

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448





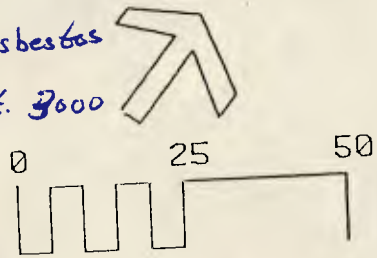
KEY PLAN

Homogeneous Area

Formica - pressed wood walls

No asbestos

Sq. Ft. 3000



NOTE:

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ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

24, JUNE, 1986

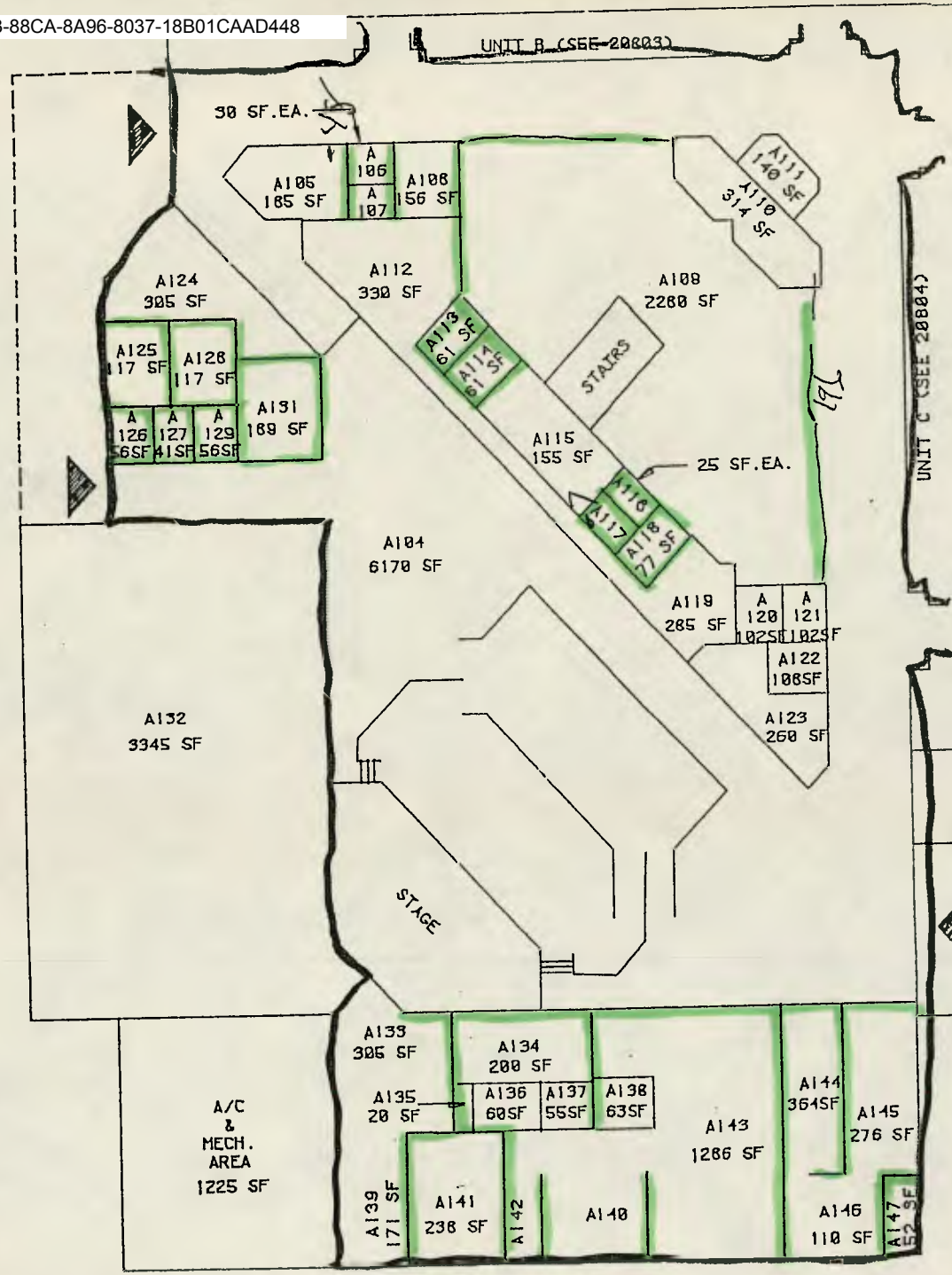
REVISED: 10N

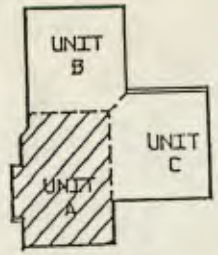
dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-C FLOOR PLAN

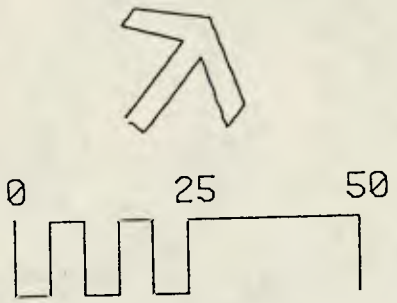
FILE NO: 20804

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448





KEY PLAN



homogeneous area
gypsum board
No asbestos
Sq. Ft. 2500

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23, JUNE, 1986.

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

23, JUNE, 1986

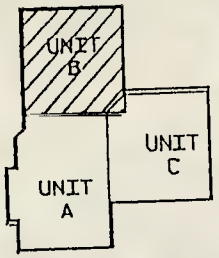
REVISED: 100

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20802

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



KEY PLAN

Homogeneous
Area
gypsum board
No asbestos
Sq. Ft. 4000

0 25 50

A=RESTROOM, 16 S.F.
B=RETSROOM, 30 S.F.

NOTE:

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25, JUNE, 1986

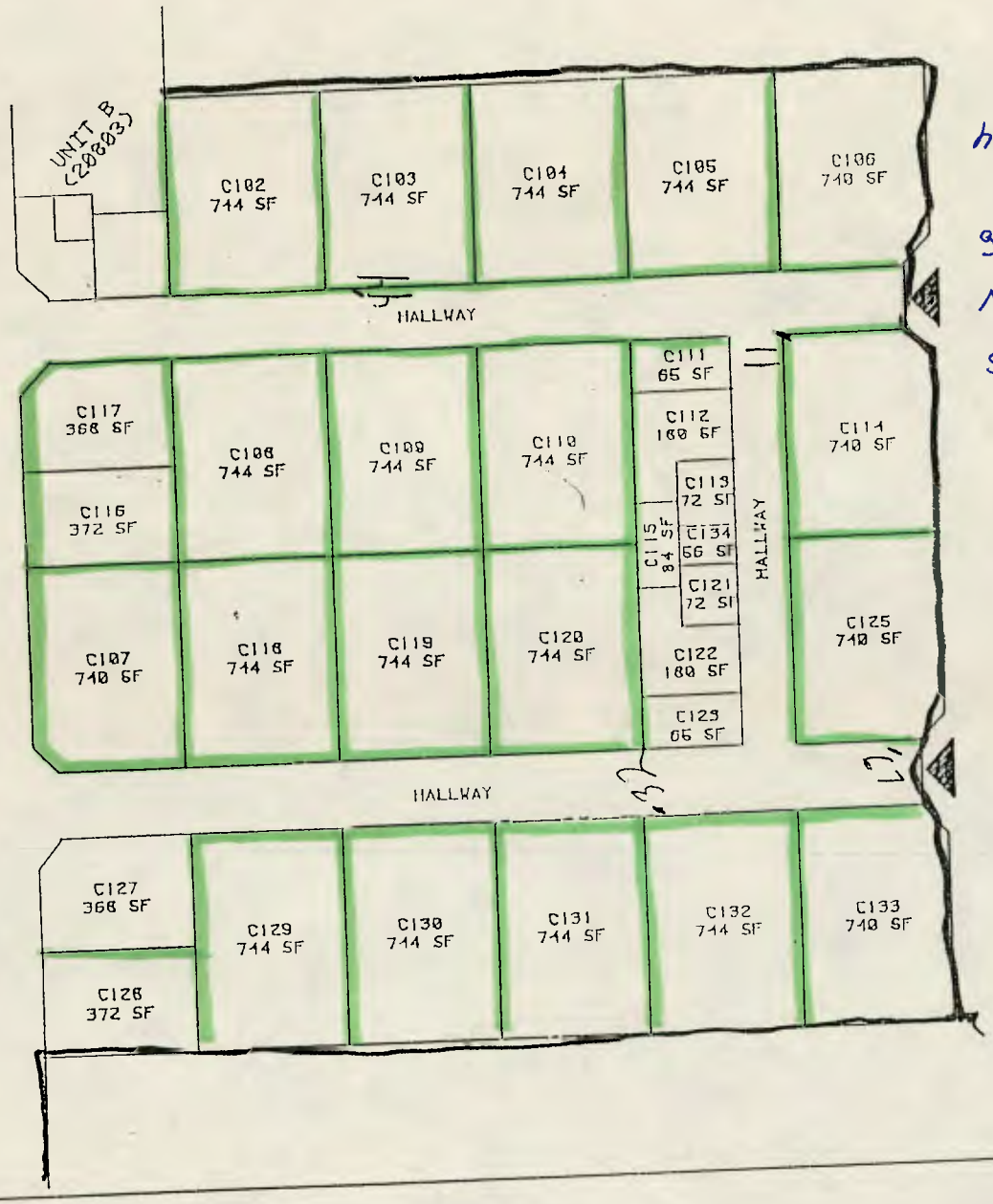
REVISED: 10P

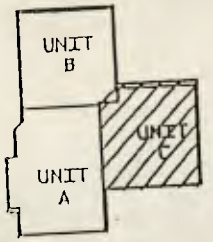
dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-B FLOOR PLAN

FILE NO: 20803

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448





KEY PLAN

homogeneous area
gypsum board
No asbestos
Sq Ft 4000

0 25 50

NOTE:

ROOM NUMBERS TAKEN FROM ARCHITECTURAL FLOOR PLANS 23 JUNE 1986

ROOM AREAS CALCULATED FROM WORKING DRAWINGS AND ARE ONLY APPROXIMATE.

24, JUNE, 1986

REVISED:

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-C FLOOR PLAN

FILE NO. 20804

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST

1. CEILING	6. CHILLER
2. FLOOR	7. CHALKBOARDS
3. WALL	8. AIR HANDLERS
4. CRAWLSPACE	9. ROOF
5. MECHANICAL ROOM	10. MISC. ACM

DATE: 2/20/88

CAMPUS # 208

SECTION #E10B

The Auditorium curtains are all in good shape with no physical damage or deterioration.

SIGNATURE Dan Mar

ACTMIF03

10R

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

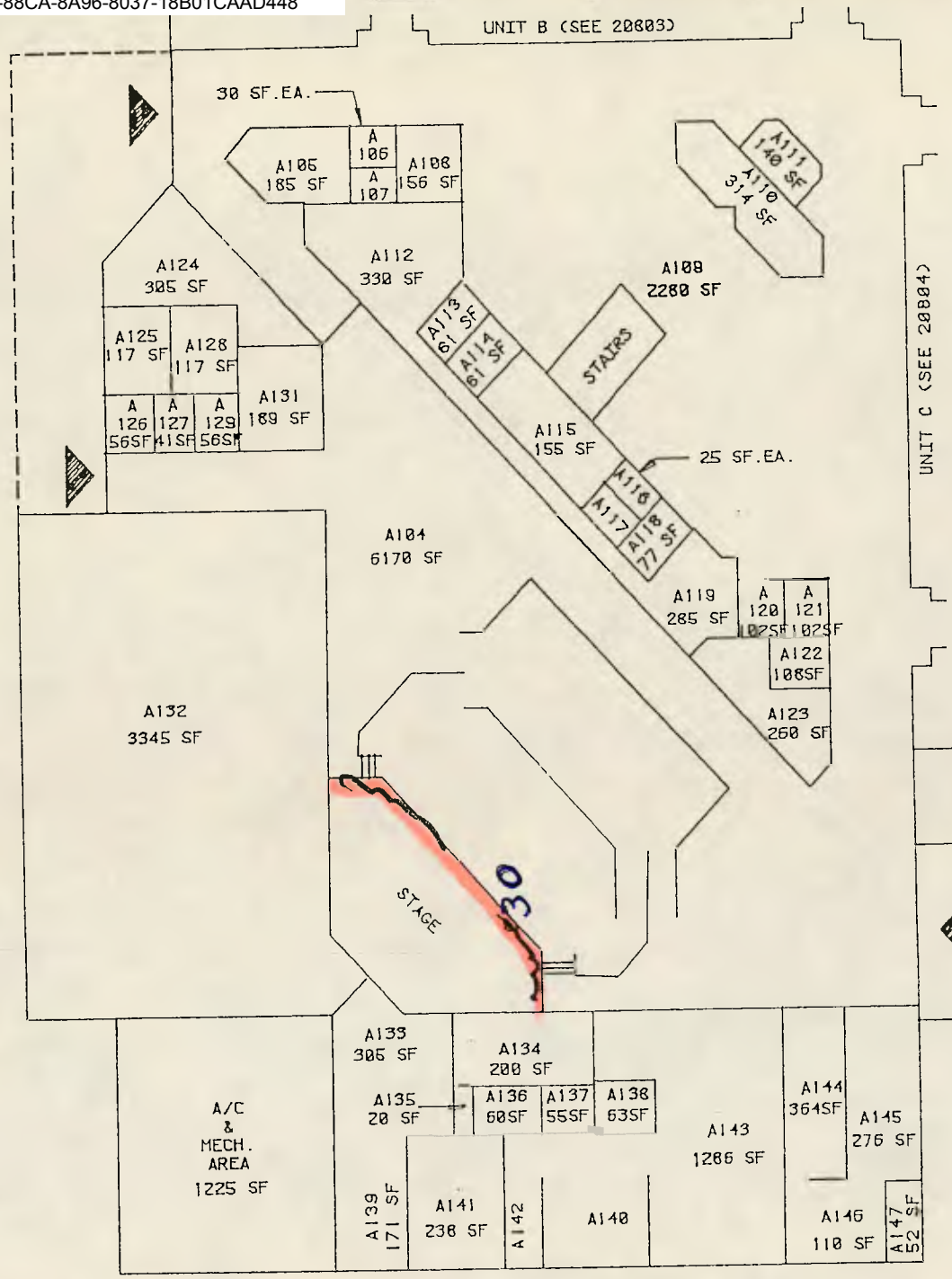
Homogeneous Area

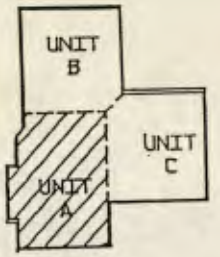
Auditorium Curtains

Sample # 30

Sq. ft. 1000

No asbestos





KEY PLAN

NOTE:

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23, JUNE, 1986

REVISED: 10S

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20802

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST

1. CEILING	6. CHILLER
2. FLOOR	7. CHALKBOARDS
3. WALL	8. AIR HANDLERS
4. CRAWLSPACE	9. ROOF
5. MECHANICAL ROOM	10. MISC. ACM

DATE: 2/20/88

CAMPUS # 208

SECTION # E10A

Countertops on the campus are all in good shape with no physical damage or deterioration.

10T

SIGNATURE Dan Bass

ACTMIF03

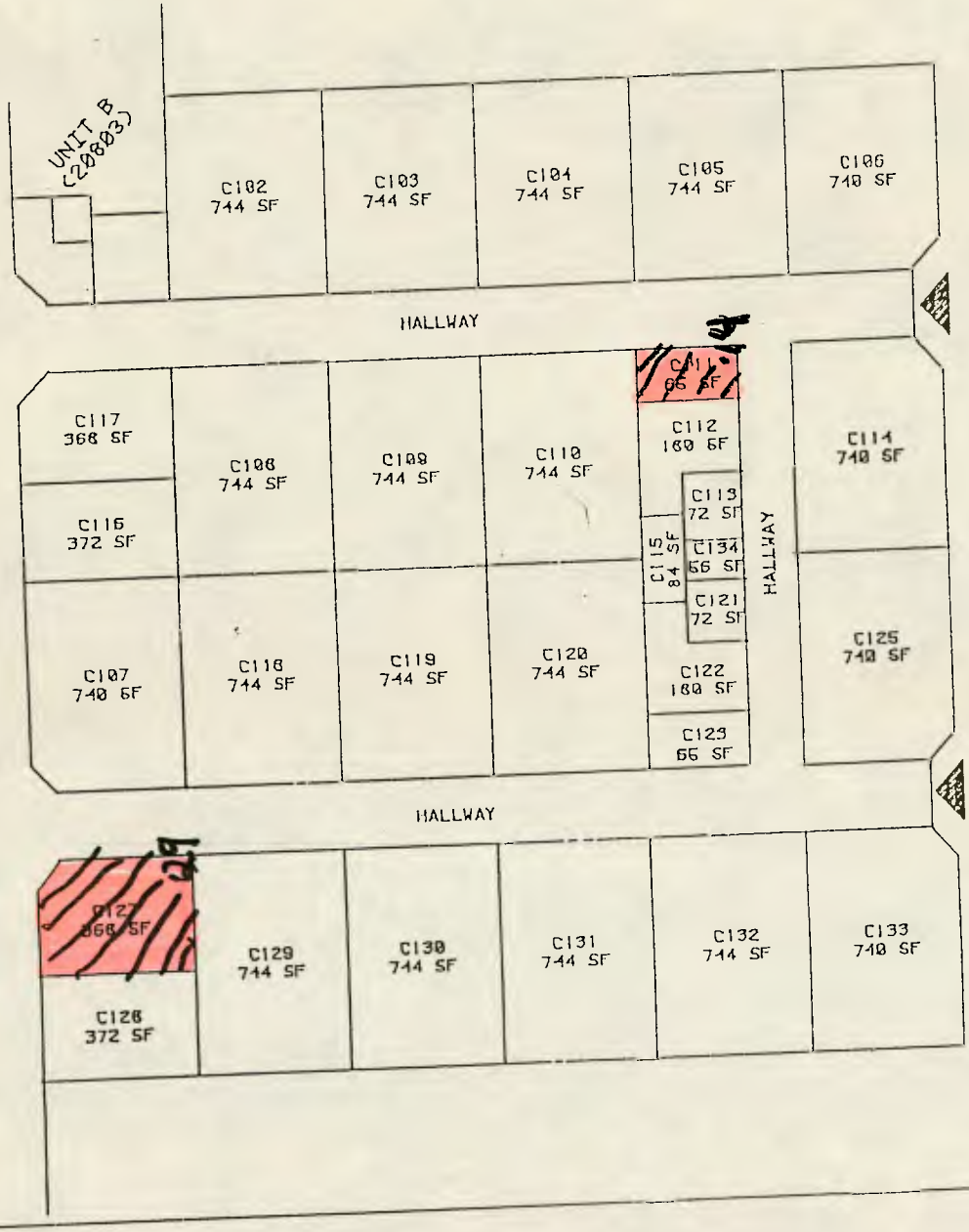
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

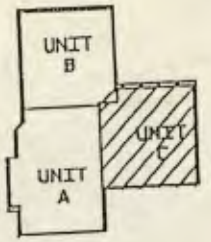
Homogeneous
Area
Countertops

Sample #
14
29

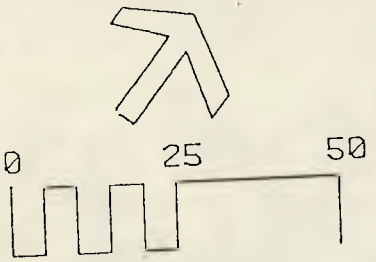
No asbestos

Sq. Ft 425





KEY PLAN



NOTE:

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24, JUNE, 1986

REVISED:

10U

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-C FLOOR PLAN

FILE NO: 20804

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

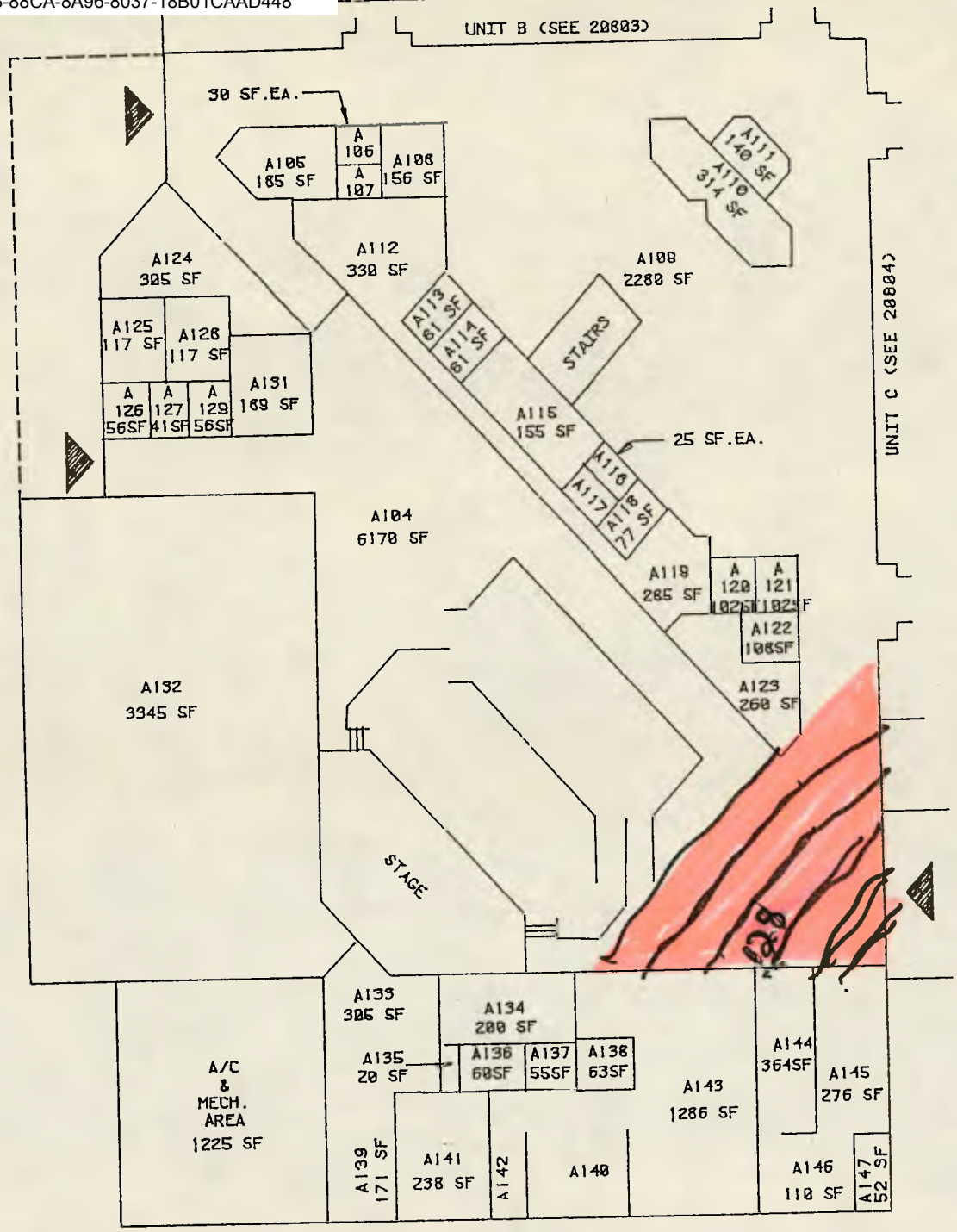
Homogeneous Area

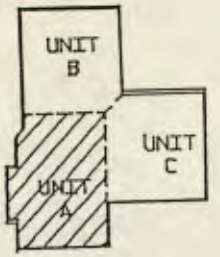
Countertops

Sample #28

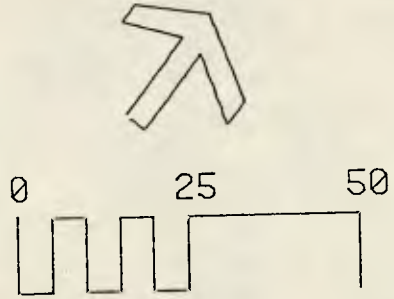
No asbestos

Sq. Ft. 800





KEY PLAN



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23, JUNE, 1986

REVISED: 10V

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-A FLOOR PLAN

FILE NO: 20802

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

DISD

FACILITY CARE
ASBESTOS CONTROL DIVISION

AHERA INSPECTION
ASBESTOS SECTION SUMMARY

SECTION CHECKLIST

1. CEILING
2. FLOOR
3. WALL
4. CRAWLSPACE
5. MECHANICAL ROOM
6. CHILLER
7. CHALKBOARDS
8. AIR HANDLERS
9. ROOF
10. MISC. ACM

DATE: 2/20/88

CAMPUS # 208

SECTION # E 7

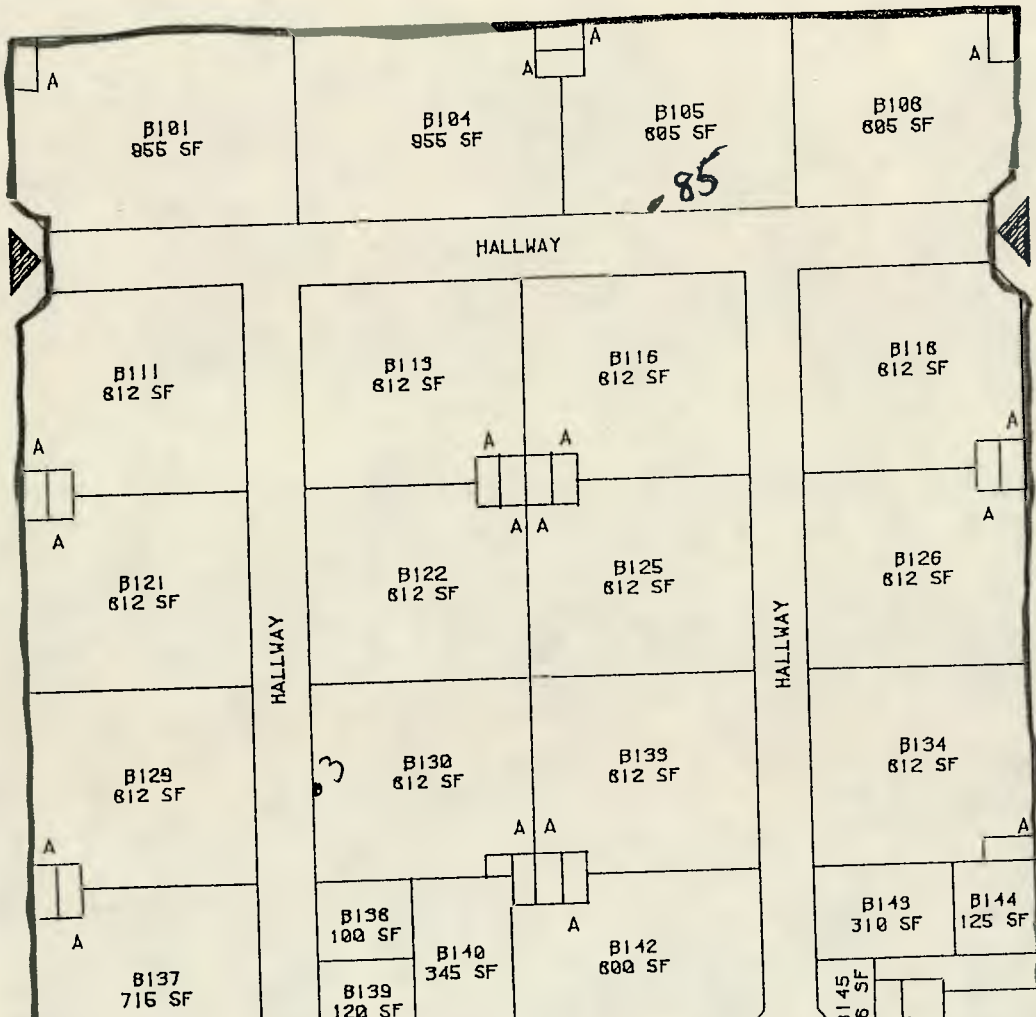
The chalkboards in this school were uniform in color, texture and size. It is my opinion that said chalkboards are in very good shape.

SIGNATURE David Moore

ACTMIF03

10W

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



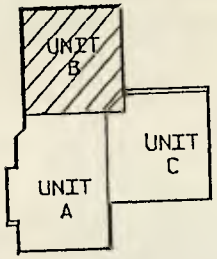
Homogeneous Area

Chalkboards

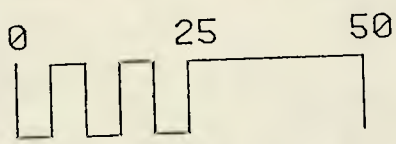
Sample # 85

Sq Ft 1280

No asbestos



KEY PLAN



A=RESTROOM, 16 S.F.
B=RETSROOM, 30 S.F.

NOTE:

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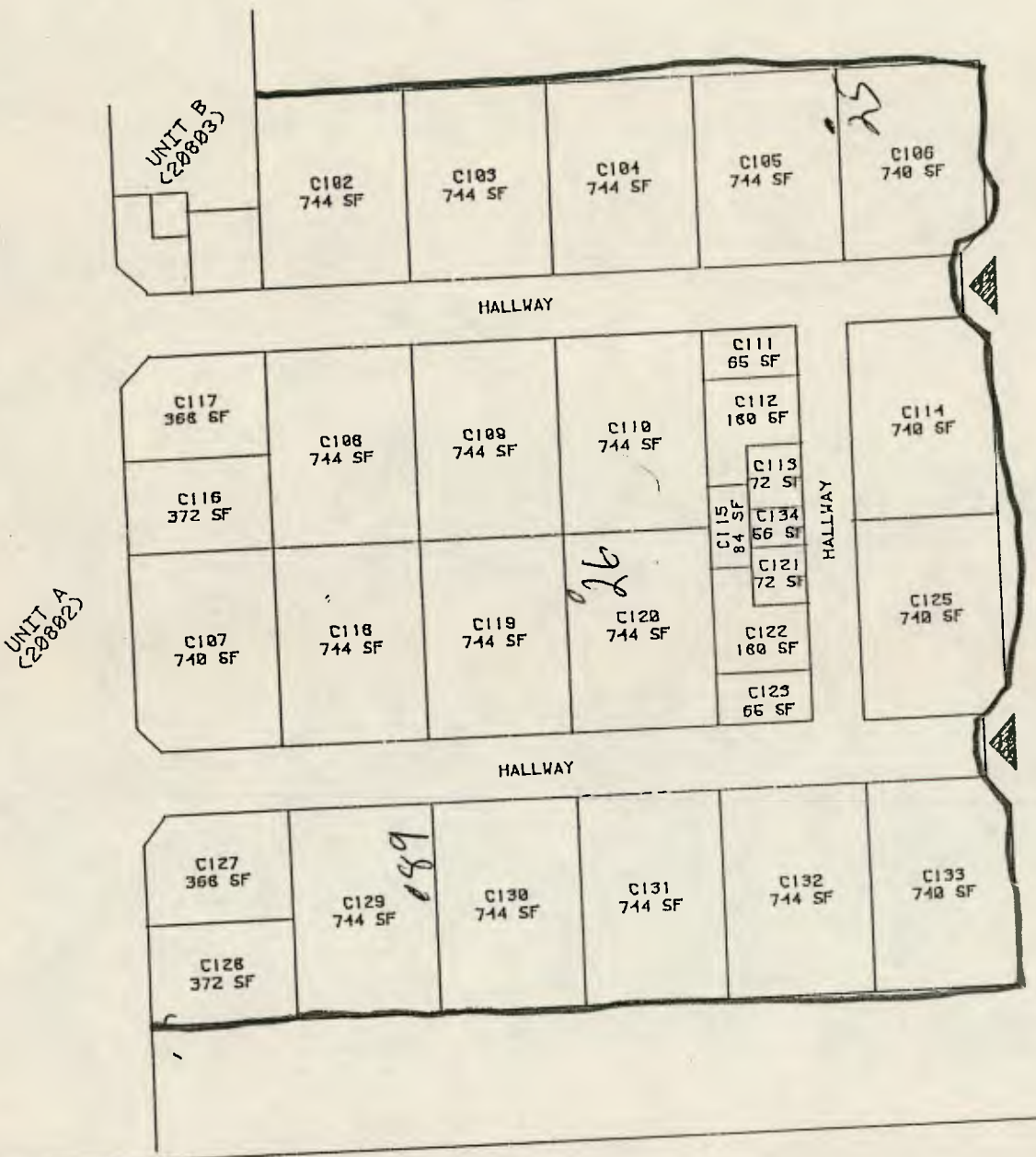
25, JUNE, 1986

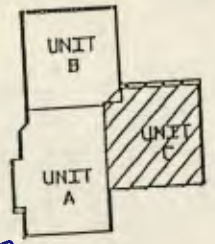
REVISED: 10X

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-B FLOOR PLAN

FILE NO: 20803





KEY PLAN

Homogeneous Area

Chalkboards

Sample #

25
26
89

0 25 50

NOTE:

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24, JUNE, 1986

REVISED: 10Y

dallas independent school district

TITLE: SEAGOVILLE ELEMENTARY SCHOOL UNIT-C FLOOR PLAN

FILE NO: 20804

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION III HAZARD ASSESSMENT CLASSIFICATIONS

A. MECHANICAL ROOM

No asbestos-containing material was found; consequently no hazard assessment is required.

B. CRAWL SPACE & RISERS -

No asbestos-containing material was found; consequently no hazard assessment is required.

C. FLOOR TILE -

No asbestos-containing material was found; consequently no hazard assessment is required.

D. CEILING MATERIAL

No asbestos-containing material was found; consequently no hazard assessment is required.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION IV RESPONSE ACTION RECOMMENDATIONS

No asbestos-containing material was found; consequently no response action recommendations are required.

TOTAL ESTIMATED COST TO IMPLEMENT ALL ABOVE RESPONSE ACTIONS

INHOUSE COST	$0.00
CONTRACT COST	$0.00
Total Cost	$0.00

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

PACM Window Putty Assessment

1.0 PURPOSE AND SCOPE OF WORK

The purpose of this presumed asbestos containing material (PACM) assessment is to identify and evaluate the condition of suspect building materials. To verify the presence of the PACM and to make recommendations for the removal or management of any regulated building materials in accordance with the requirements of the U.S. EPA Asbestos Hazard Emergency Response Act (AHERA) regulation, 40 CFR part 763.

Bulk samples were possibly taken in random areas of the suspect window putty in this facility. Due to a variation (Positive/Negative) in the sample analysis results, it was determined by documentation from several asbestos sample reports on window putty of the same color, age, and texture of the regulated material that this material is homogeneous. Homogenous is a term used to describe surfacing material that is uniform in age and texture.

2.0 PROPERTY DESCRIPTION

The following materials were identified as PACM:

- Interior window putty
- Exterior window putty

3.0 PACM ASSESSMENT PROCEDURE

A visual assessment was conducted to identify homogeneous materials suspected of being PACM. The assessment was performed to make sure that the window putty is homogeneous to the areas that have positive sample documentation.

Kelvin Brown
TDH Licensed Inspector/Management Planner (#205579)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

September 6, 2005

Seagoville Elementary School
304 N. Kaufman Street
Dallas, Texas 75159
DISD Box Number: 349

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary School. As required by federal law, this plan was submitted and approved by the State of Texas Governors Office.

As Building Manager for your facility, your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors, and maintenance personnel. The Plan is **not to be removed** from the facility. If you cannot locate your Plan or you are having difficulty interpreting the Plan, please contact the Environmental Services Division at 972-925-5300.

Sincerely,

Stoney D. Crump

Stoney D. Crump, Coordinator
Environmental Services Division

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V - Operation and Maintenance Plan

Dallas Independent School District

August 31, 2005

TO: Employee Associations Listed on Attached Page

FROM: Stoney D. Crump, Coordinator, Environmental Services Division

RE: AHERA Management Plan, Section V - Operation and Maintenance Plans

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required school districts to annually notify parent/teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and prepared an Asbestos Management Plan for buildings currently occupied by the district. As required by federal law, these plans were submitted to and approved by the State of Texas Governors Office on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have questions or comments, please contact:

Dallas Independent School District
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Attachment: 1

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V - Operation and Maintenance Plan

Employee Associations	Box #
Alliance/AFT	124
Associations of Dallas School Psychologist	163
Associations of Texas Professional Educators – Dallas	121
Board of Trustees Administrative Assistants	114
Classroom Teachers of Dallas	118
Dallas Association of Counselors	250
Dallas Association of School Librarians	311
Dallas Educational Support Personnel Association	371
Dallas ISD Council of PTA's	137
Dallas Regional / National Alliance of Black School Educators	162
Dallas Retired Teachers Association	52
Dallas School Administrators Association	111
Health Services	96
Texas United School Employees/Local 100, SBIU	145
Visiting Teachers Association	437
The Communicator	40

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

July 2, 2004

Seagoville Elementary School
304 N. Kaufman Street
Dallas, Texas 75159
DISD Box Number: 349

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary School. As required by federal law, this plan was submitted and approved by the State of Texas Governors Office.

As Building Manager for your facility, your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors, and maintenance personnel. The Plan is **not to be removed** from the facility. If you cannot locate your Plan or you are having difficulty interpreting the Plan, please contact the Environmental Services Division at 972-925-5300.

Sincerely,

Stoney D. Crump, Coordinator
Environmental Services Division

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

September 28, 2004

TO: Employee Associations Listed on Attached Page

FROM: Stoney D. Crump, Coordinator, Environmental Services Division

RE: AHERA Management Plan, Section V - Operation and Maintenance Plans

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required school districts to annually notify rent/teacher associations and employee organizations of the availability of the Management Plan for ;wing.

This letter is to advise that the Dallas Independent School District has completed its inspection and prepared an Asbestos Management Plan for buildings currently occupied by the district. As required by federal law, these plans were submitted to and approved by the State of Texas Governors Office on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have questions or comments, please contact:

Dallas Independent School District
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Attachment: 1

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

TION V - Operation and Maintenance Plan

Alliance of Dallas Educators

American Federation of State/County/Municipal Employees Associations
of Dallas School Psychologist
Associations of Hispanic School Administrators of Dallas Independent School District Associations of
Texas Professional Educators - Dallas
Classroom Teachers of Dallas

Dallas Association for Multilingual Education Dallas
Association of Counselors
Dallas Association of School Librarians Dallas Association of
Paraprofessionals Dallas Council for the Social Studies Dallas
Council of the International Reading Association Dallas Education
Support Personnel Association Dallas ISD Council of PTA's
Dallas Regional / National Alliance of Black School Educators Dallas Retired
Teach Association
Dallas School Administrators Association Dallas
ıools Food Service Association Dallas Visiting
ıchers Association
Phi Delta Kappa

Texas Classroom Teachers Association

Texas Cooperative Hospital Benefits Association Texas United
School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

October 29, 2003

Seagoville Elementary School
304 N. Kaufman Street
Seagoville, Texas 75159
DISD Box Number: 349

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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Sincerely,

Jeff Brogden
Executive Director Environmental Services Division

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

October 30, 2003

TO: Employee Associations Listed on Attached Page

FROM: Jeff Brogden, Executive Director Environmental Services Division

RE: AHERA Management Plan
Section V – Operation and Maintenance Plans

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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Dallas Independent School District
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Attachment: 1

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V – Operation and Maintenance Plan

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologist
Associations of Hispanic School Administrators of Dallas Independent School District
Associations of Texas Professional Educators – Dallas
Classroom Teachers of Dallas
Dallas Association for Multilingual Education
Dallas Association of Counselors
Dallas Association of School Librarians
Dallas Association of Paraprofessionals
Dallas Council for the Social Studies
Dallas Council of the International Reading Association
Dallas Education Support Personnel Association
Dallas ISD Council of PTA's
Dallas Regional / National Alliance of Black School Educators
Dallas Retired Teach Association
Dallas School Administrators Association
Dallas Schools Food Service Association
Dallas Visiting Teachers Association
Phi Delta Kappa
Texas Classroom Teachers Association
Texas Cooperative Hospital Benefits Association
Texas United School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V – Operation and Maintenance Plan

Dallas Independent School District

October 7, 2002

Seagoville Elementary School
304 N. Kaufman Street
Dallas, Texas 75159
DISD Box Number: 349

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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Sincerely,

Jeff Brogden
Executive Director Environmental Services Division

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

October 7, 2002

TO: Employee Associations Listed on Attached Page

FROM: Jeff Brogden, Executive Director Environmental Services Division

RE: AHERA Management Plan
Section V – Operation and Maintenance Plans

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have questions or comments, please contact:

Dallas Independent School District
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Attachment: 1

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologist
Associations of Hispanic School Administrators of Dallas Independent School District
Associations of Texas Professional Educators – Dallas
Classroom Teachers of Dallas
Dallas Association for Multilingual Education
Dallas Association of Counselors
Dallas Association of School Librarians
Dallas Association of Paraprofessionals
Dallas Council for the Social Studies
Dallas Council of the International Reading Association
Dallas Education Support Personnel Association
Dallas ISD Council of PTA's
Dallas Regional / National Alliance of Black School Educators
Dallas Retired Teach Association
Dallas School Administrators Association
Dallas Schools Food Service Association
Dallas Visiting Teachers Association
Phi Delta Kappa
Texas Classroom Teachers Association
Texas Cooperative Hospital Benefits Association
Texas United School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

SECTION V - Operation and Maintenance Plan

November 1, 2001

Seagoville Elementary School
304 N. Kaufman Street
Seagoville, Texas 75159
DISD Box Number: 349

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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Sincerely,

Jeff Brogden
Director of Environmental Services Division

Mike Moses, Ed.D. • *General Superintendent*

3700 Ross Avenue • Dallas, Texas 75204-5491 • Telephone (972) 925-3700

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Independent School District

November 19, 2001

TO: Employee Associations Listed on Attached page

FROM: Jeff Brogden
Director
Environmental Services Division

RE: *AHERA Management Plan*
SECTION V OPERATIONS AND MAINTENANCE PLANS

In 1987, Congress passed legislation, which requires all school districts in the USA to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, The Asbestos Hazard Emergency Response Act (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Public Schools has completed its inspection and preparation of an Asbestos management Plan for buildings currently occupied by Dallas Public Schools. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility.

Should any organization have any questions or comments please contact:

Dallas Public Schools
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Attachment: 1

JB-cg25

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologist
Associations of Hispanic School Administrators of Dallas Public
Associations of Texas Professional Educators – Dallas
Classroom Teachers of Dallas/TSTA/NEA
Dallas Association for Multilingual Education
Dallas Association of Counselors
Dallas Association of Schools Librarians
Dallas Association of Paraprofessionals
Dallas Council for the Social Studies
Dallas Council of the International Reading Association
Dallas Educational Support Personnel Association
Dallas ISD Council of PTA's
Dallas Regional/National Alliance of Black School Educators
Dallas Retired Teachers Assn.
Dallas School Administrators Association
Dallas Schools Food Service Association
Dallas Visiting Teachers Association
Phi Delta Kappa
Texas Classroom Teachers Association
Teachers Cooperative Hospital Benefits Association
Texas United School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Environmental Services Division
2419 Cockrell Avenue, Dallas, Texas 75215

SECTION V
Operation and Maintenance Plan

September 25, 2000

Seagoville Elementary

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation that required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that Dallas Public Schools has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary. As required by federal law, this plan was submitted and approved by the State of Texas Governors Office.

As Building Manager for your facility, your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors, and maintenance personnel. The Plan is **not to be removed** from the facility. If you cannot locate your Plan or you are having difficulty interpreting the Plan, please contact the Environmental Services Division at 972.925.5300.

Sincerely,

Jeff Brogden
Director of Environmental Services Division

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

OFFICE MEMO

Dallas Public Schools

SCHOOL ADMINISTRATION BUILDING • 3700 ROSS AVENUE

SECTION V OPERATIONS AND MAINTENANCE PLANS

FROM: Jeff Brogden Jeff Brogden

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: September 30, 2000

In 1987, Congress passed legislation which requires all school districts in the USA to re- inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, The Asbestos Hazard Emergency Response Act (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Public Schools has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by Dallas Public Schools. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility.

Should any organization have any questions or comments please contact:

Dallas Public Schools
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/ County/Municipal Employees
Associations of Dallas School Psychologist
Associations of Hispanic School Administrators of Dallas Public
Associations of Texas Professional Educators - Dallas
Classroom Teachers of Dallas/TSTA/NEA
Dallas Association for Multilingual Education
Dallas Association of Counselors
Dallas Association of Schools Librarians
Dallas Association of Paraprofessionals
Dallas Council for the Social Studies
Dallas Council of the International Reading Association
Dallas Educational Support Personnel Association
Dallas ISD Council of PTA's
Dallas Regional/National Alliance of Black School Educators
Dallas Retired Teachers Assn.
Dallas School Administrators Association
Dallas Schools Food Service Association
Dallas Visiting Teachers Association
Phi Delta Kappa
Texas Classroom Teachers Association
Teachers Cooperative Hospital Benefits Association
Texas United School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

3700 ROSS AVENUE DALLAS, TEXAS 75204

Section V
Operations and Maintenance Plan

Dallas Public Schools
Environmental Services Department
2419 Cockrell Ave.
Dallas, Texas 75215

October 4, 1999

Seagoville Elementary
Joe McCalister
304 N. Kaufman
Seagoville, TX 75159

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that Dallas Public Schools has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary. As required by federal law, this plan was submitted and approved by the State of Texas Governors Office.

As Building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors, and maintenance personnel. Please **do not remove** or allow the plan to be removed from the campus. If you cannot locate your Plan or you are having difficulty interpreting the Plan, please contact the Environmental Services Division, Jeff Brogden @ 972-925-5300.

Sincerely,

Louis Alonzo
Interim Executive Director of Maintenance
349 - 2790

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

OFFICE MEMO

Dallas Public Schools

SECTION V OPERATIONS AND MAINTENANCE PLANS

FROM: Jeff Brogden

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: September 27, 1999

In 1987, Congress passed legislation which requires all school districts in the USA to re- inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, The Asbestos Hazard Emergency Response Act (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Public Schools has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by Dallas Public Schools. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility.

Should any organization have any questions or comments please contact:

Dallas Public Schools
Environmental Services Division
2419 Cockrell Ave.
Dallas, Texas 75215
(972) 925-5300

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

American Federation of State County & Municipal Employees

Assn. of Dallas School Psychologist

Assn. of Hispanic School Administrators of Dallas Public

Assn. of Texas Professional Educators - Dallas

Classroom Teachers of Dallas/TSTA/NEA

Dallas Assn. for Multilingual Education

Dallas Assn. of Counselors

Dallas Assn. of Schools Librarians

Dallas Council for the Social Studies

Dallas Council of the International Reading Assn.

Dallas Educational Support Personnel Assn.

Dallas ISD Council of PTA's

Dallas Regional/National Alliance of Black School Educators

Dallas Retired Teachers Assn.

Dallas School Administrators Assn.

Dallas Schools Food Service Assn.

Dallas Visiting Teachers Assn.

Texas Classroom Teachers Assn.

Teachers Cooperative Hospital Benefits Assn.

Texas United School Employees/Local 100, SBIU

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

3700 ROSS AVENUE DALLAS, TEXAS 75204

COPY

Section V
Operations and Maintenance Plan

Dallas Public Schools
Environmental Services Department
3701 So. Lamar
Dallas, Texas 75215

October 6, 1998

Seagoville Elementary
Joe McCalister
304 N. Kaufman
Seagoville, TX 75159

Dear Joe McCalister:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that Dallas Public Schools has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary. As required by federal law, this plan was submitted and approved by the State of Texas Governors Office.

As Building Manger for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors, and maintenance personnel. Please **do not remove** or allow the plan to be removed from the campus. If you cannot locate your Plan or you are having difficulty interpreting the Plan, please contact the Environmental Services Department @214-928-3580.

Sincerely,
W.T. Shaw
Executive Director of Maintenance

349 - 2790

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

Dr. James Hughey

Acting General Superintendent

Section V
Operations and Maintenance Plan

Dallas Public Schools
Environmental Services Department
3701 So. Lamar
Dallas, Texas 75215

November 4, 1997

Seagoville Elementary
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Dear Stacy Mosley Jr.:

Please post this letter on your public bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was submitted to the State of Texas for approval. AHERA required the district to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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Sincerely,
W.T. Shaw
Executive Director of Maintenance

349 - 2790

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

A. MANDATORY NOTIFICATIONS

As required by Section 763.93, the Dallas Independent School District has notified in writing the below listed organizations. A dated copy of these written notifications are contained herein.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

Chad Woolery

General Superintendent

Section V
Operations and Maintenance Plans

Dallas Public Schools
Environmental Services Department
3701 So. Lamar
Dallas, Texas 75215

October 10, 1996

Seagoville Elementary
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Dear Stacy Mosley Jr.,

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Sincerely,

David Strobel
Director of Maintenance

2790 - Box #349

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

OFFICE MEMO

Dallas Public Schools

SCHOOL ADMINISTRATION BUILDING • 3700 ROSS AVENUE

SECTION V OPERATIONS AND MAINTENANCE PLANS

FROM: David Strobel

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: September 30, 1996

In 1987, Congress passed legislation which requires all school districts in the USA to re inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the Asbestos Hazard Emergency Response Act (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

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Dallas Public Schools
Environmental Services Department
3701 S. Lamar
Dallas, Texas 75215
214-928-3580

ahera195

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologists
Classroom Teachers of Dallas
Dallas Associations for Bilingual Education
Dallas Associations of Counselors
Dallas Associations of Educational Office Personnel
Dallas Association of Home - School Coordinators
Dallas Association of Paraprofessionals
Dallas Association of School Librarians
Dallas Association of Texas Professional Educators
Dallas ISD Council of PTA's
Dallas Council, International Reading Associations
Dallas Educational Support Personnel Association
Dallas Regional/National Alliance of Black School Educators
Dallas Retired teachers Association
Dallas School Administrators Association
Dallas School Food Services Association
Dallas Teachers Education Center Council
Dallas Teachers Credit Union
Distinct Communications Committee
Phi Delta Kappa
Teachers Cooperative hospital Benefit Association
Texas Classroom Teachers Association

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

Chad Woolery

General Superintendent

SECTION V
OPERATION AND MAINTENANCE PLANS

Dallas Public Schools
Environmental Services Department
2419 Cockrell
Dallas, Texas 75215
(214) 565-6760

September 11, 1995

Seagoville Elementary
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Re: AHERA Management Plan

Dear Stacy Mosley Jr.,

Please post this letter on you public notice bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed Legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA required the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

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As building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. Please do not remove or allow the plan to be removed from the campus. If you cannot locate your plan or having difficulty interpreting the plan please contact the Environmental Services Department @ (214) 565-6760.

Sincerely,

David Strobel
Director of Maintenance

2790 cc: William Cotton

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

OFFICE MEMO

Dallas Public Schools

SCHOOL ADMINISTRATION BUILDING • 3700 ROSS AVENUE

SECTION V OPERATIONS AND MAINTENANCE PLANS

FROM: David Strobel

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: August 31, 1995

In 1987, Congress passed legislation which requires all school districts in the USA to re inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the Asbestos Hazard Emergency Response Act ":(AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Independent School District has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by the Dallas Independent School District. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have any questions or comments please contact:

Dallas Public Schools
Environmental Services Department
2419 Cockrell Ave
Dallas, Texas 75215
214-565-6760

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologists
Classroom Teachers of Dallas
Dallas Association for Bilingual Education
Dallas Association for Health Education
Dallas Association of Counselors
Dallas Association of Educational Office Personnel
Dallas Association of Home-School Coordinators
Dallas Association of Paraprofessionals
Dallas Association of School Librarians
Dallas Association of Texas Professional Educators
Dallas ISD Council of PTAs
Dallas Council, International Reading Association
Dallas Educational Support Personnel Association
Dallas Regional/National Alliance of Black School Educators
Dallas Retired Teachers Association
Dallas School Administrators Association
Dallas School Food Services Association
Dallas Teacher Education Center Council
Dallas Teachers Credit Union
District Communications Committee
Phi Delta Kappa
Teachers Cooperative hospital Benefit Association
Texas Classroom Teachers Association

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATION AND MAINTENANCE PLANS

Dallas Public Schools
Environmental Services Department
2419 Cockrell
Dallas, Texas 75215
(214) 565-6760

October 17, 1994

Seagoville Elementary
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Re: AHERA Management Plans

Dear Stacy Mosley Jr.,

Please post this letter on your public notice bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed Legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA requires the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that Dallas Public Schools has completed its inspection and prepared an Asbestos Management Plan for Seagoville Elementary. As required by the federal law, this plan was submitted and approved by the State of Texas Governors Office.

As building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. If you cannot locate your plan or having difficulty interpreting the plan please contact the Environmental Services Department @ (214) 565-6760.

Sincerely,

David Strobel
Director of Maintenance

cc: William Cotton

Dallas Independent
School District

Chad Woolery
General Superintendent

2790

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS & MAINTENANCE PLANS

FROM: David Strobel

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: September 1, 1994

In 1987, Congress passed legislation which requires all school districts in the USA to reinspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Public Schools has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by the Dallas Public Schools. As required by this federal law, this plan was submitted to the State of Texas Governors Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have any questions or comments please contact:

Dallas Public Schools
Environmental Services Department
2419 Cockrell
Dallas, Texas 75215
(214)565-6760

Dallas Independent
School District

Chad Woolery
General Superintendent

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologists
Classroom Teachers of Dallas
Dallas Association for Bilingual Education
Dallas Association for Health Education
Dallas Association of Counselors
Dallas Association of Educational Office Personnel
Dallas Association of Home-School Coordinators
Dallas Association of Paraprofessionals
Dallas Association of School Librarians
Dallas Association of Texas Professional Educators
Dallas ISD Council of PTAs
Dallas Council, International Reading Association
Dallas Educational Support Personnel Association
Dallas Regional/National Alliance of Black School Educators
Dallas Retired Teachers Association
Dallas School Administrators Association
Dallas School Food Services Association
Dallas Teacher Education Center Council
Dallas Teachers Credit Union
District Communications Committee
Phi Delta Kappa
Teachers Cooperative hospital Benefit Association
Texas Classroom Teachers Association

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATION AND MAINTENANCE PLANS

Dallas Independent School District
Environmental Services Department
2419 Cockrell
Dallas, Texas 75218
(214) 565-6760

October 27, 1993

Seagoville Elementary
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Re: AHERA Management Plans

Dear Stacy Mosley Jr.,

Please post this letter on your public notice bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed Legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA requires the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and has prepared an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan was submitted and approved by the State of Texas Govenor's Office.

As building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. If you cannot locate your plan or having difficulty interpreting the plan please contact the Environmental Services Department @ (214) 565-6760.

Sincerely,

David Strobel
Environmental Services Department

cc: William H. Cotton
Attached List of Employee Organizations

Dallas Independent
School District

Marvin E. Edwards
General Superintendent

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

FROM: David Strobel

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: October 27, 1993

In 1987, Congress passed legislation which requires all school districts in the USA to reinspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the "Asbestos Hazard Emergency Response Act": (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted tot he State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Independent School District has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by the Dallas Independent School District. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have any questions or comments please contact:

Dallas Independent School District
Environmental Services Department
2419 Cockrell
Dallas, Texas 75215
(214)565-6760

Dallas Independent
School District

Marvin E. Edwards
General Superintendent

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators
American Federation of State/County/Municipal Employees
Associations of Dallas School Psychologists
Classroom Teachers of Dallas
Dallas Association for Bilingual Education
Dallas Association for Health Education
Dallas Association of Counselors
Dallas Association of Educational Office Personnel
Dallas Association of Home-School Coordinators
Dallas Association of Paraprofessionals
Dallas Association of School Librarians
Dallas Association of Texas Professional Educators
Dallas ISD Council of PTAs
Dallas Council, International Reading Association
Dallas Educational Support Personnel Association
Dallas Regional/National Alliance of Black School Educators
Dallas Retired Teachers Association
Dallas School Administrators Association
Dallas School Food Services Association
Dallas Teacher Education Center Council
Dallas Teachers Credit Union
District Communications Committee
Phi Delta Kappa
Teachers Cooperative hospital Benefit Association
Texas Classroom Teachers Association

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATION AND MAINTENANCE PLANS

Dallas Independent School District
10121 Hermosa
Dallas, Texas 75218
(214)324-1524

November 12, 1991

Seagoville Elementary,
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Re: AHERA Management Plans

Dear Stacy Mosley Jr.,

Please post this letter on your public notice bulletin board and also forward a copy to your local PTA President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA requires the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and has prepared an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan was submitted and approved by the State of Texas Govenor's Office.

As building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. If you cannot locate your plan or are having difficulty interpreting the plan please contact the Asbestos Control Department @ (214) 324-1524.

Sincerely,

David Strobel
Asbestos Control Department

cc: William H. Cotton
Attached List of Employee Organizations

Dallas Independent
School District

Marvin E. Edwards
General Superintendent

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V **OPERATIONS AND MAINTENANCE PLANS**

FROM: David Strobel

SUBJECT: AHERA Management Plan

TO: Employee Associations Listed on Attached Page

DATE: November 22, 1991

In 1987, Congress passed legislation which requires all school districts in the USA to reinspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the "Asbestos Hazard Emergency Response Act: (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA required the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

This memorandum is to advise that the Dallas Independent School District has completed its inspection and preparation of an Asbestos Management Plan for buildings currently occupied by the Dallas Independent School District. As required by this federal law, this plan was submitted to the State of Texas Governor's Office for approval on or before May 9, 1989.

The Asbestos Management Plan is available for review at the office on each campus or facility. Should any organization have any questions or comments please contact:

Dallas Independent School District
Asbestos Control Department
10121 Hermosa
Dallas, Texas 75218
(214)324-1524

Dallas Independent
School District

Marvin E. Edwards
General Superintendent

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V — OPERATIONS AND MAINTENANCE PLANS

Alliance of Dallas Educators	Box	124
Associations of Dallas School Psychologist		157
Classroom Teachers of Dallas		118
Dallas Association of Bilingual Education		119
Dallas Association for Physical Education		249
Dallas Association of Counselors		161
Dallas Association of Educational Office Personnel		203
Dallas Association of Home School Coordinators		311
Dallas Association of Paraprofessionals		209
Dallas Association of School Librarians		360
Dallas Association of Texas Para-professional Educators		235
Dallas City Council of PTA's		137
Dallas Council for the Social Studies		227
Dallas Council, International Reading Assoc.		382
Dallas Educational Support Personnel Assoc.		122
Dallas Alliance of Black School Educators		162
Dallas School Administrators Assoc.		26
Dallas School Food Services Assoc.		320
Dallas Teacher Education Center Council		34
District Communication Committee		20
Special Education PTA-SEPTA		157
Teachers Cooperative Hospital Benefit Assoc.		138
Texas Classroom Teachers Assoc.		134

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATION AND MAINTENANCE PLANS

Dallas Independent School District
10201 Hermosa
Dallas, Texas 75218
(214) 324-1524

September 3, 1990

Stacy Mosley Jr.
Seagoville Elementary
304 N. Kaufman
Seagoville, TX 75159

Dear Stacy Mosley Jr.,

Please post a copy of this letter on your public bulletin board and forward a copy to your local PTA President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA requires the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and has prepared an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan was submitted to the State of Texas Governor's Office.

As Building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. If you can not locate your plan or are having difficulty interpreting the plan please contact the Asbestos Control Division @ (214) 324-1524.

Sincerely,

David Strobel
Asbestos Control Division

cc: William Cotton
Attached List of Employee Organizations

Dallas Independent
School District

Marvin E. Edwards
General Superintendent

3700 Ross Avenue
Dallas, Texas 75204-5491
(214) 824-1620

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION V OPERATION AND MAINTENANCE PLANS

Dallas Independent School District
10201 Hermosa
Dallas, Texas 75218
(214) 324-1524

February 20, 1990

Seagoville Elementary,
Stacy Mosley Jr.
304 N. Kaufman
Seagoville, TX 75159

Dear Stacy Mosley Jr.,

Please post this letter on your public notice bulletin board and also forward a copy to your local P.T.A. President.

In 1987, Congress passed legislation which required all school districts to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an asbestos Management Plan was to be prepared and submitted to the State of Texas for approval. AHERA requires the District to annually notify parent teacher associations and employee organizations of the availability of the Management Plan for viewing.

This letter is to advise that the Dallas Independent School District has completed its inspection and has prepared an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan was submitted to the State of Texas Govenor's Office.

As Building Manager for your facility your duties regarding this Plan are to maintain the Plan and make it accessible to employees, parents, contractors and maintenance personnel. If you can not locate your plan or are having difficulty interpreting the plan please contact the Asbestos Control Division @ (214) 324-1524.

Sincerely,

David Strobel

David Strobel
Asbestos Control Division

cc: William Cotton
Attached List of Employee Organizations

Dallas Independent
School District

Marvin Edwards
General Superintendent

3700 Ross Avenue
Dallas, Texas 75204-5491
(214) 824-1620

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

John P. Russell Jr.
Director of Maintenance
DISD Asbestos Program Designee
Dallas Independent School Dist.
1602 Sante Fe
Dallas, Texas 75215
(214 - 426-3520)

June 1, 1988

Mrs. Cathy Giles,
President Seagoville PTA
Rt 3 Box 72
Simonds and Bowers
Seagoville, Tx. 75159

Dear Mrs. Giles,

Last year, Congress passed legislation which requires all school districts in the USA to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA requires the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

I am pleased to advise that the Dallas Independent School District has completed its inspection and preparation of an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan has been submitted to the State of Texas Governor's Office for approval. The State of Texas has ninety (90) days to approve or recommend changes to this plan. After expiration of this period, an approved copy will be maintained at the school.

Should you desire to view the proposed Management Plan prior to its return by the State of Texas, a copy is maintained at the above address. If you have any questions about this federally mandated program, please contact me at the above address and telephone number.

Sincerely,

John P. Russell Jr.

John P. Russell Jr. P.E.
Director of Maintenance
DISD Asbestos Program Designee

cc: Mr. Larry Ascough
Mrs. Kathleen Patterson (For A.I.S.F.)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

June 1, 1988

FROM: John P. Russell Jr.

SUBJECT: AHERA MANAGEMENT PLAN

TO: Below Listed Employee Associations

Last year, Congress passed legislation which requires all school districts in the USA to re-inspect their facilities for both friable and non-friable asbestos. This legislation is entitled, the "Asbestos Hazard Emergency Response Act" (AHERA). Upon completion of the inspection process, an Asbestos Management Plan must be prepared and submitted to the State of Texas for approval. AHERA requires the District to notify PTA's and employee organizations of the availability of the Management Plan for viewing.

I am pleased to advise that the Dallas Independent School District has completed its inspection and preparation of an Asbestos Management Plan for Seagoville Elementary. As required by this federal law, this plan has been submitted to the State of Texas Governor's Office for approval. The State of Texas has ninety (90) days to approve or recommend changes to this plan. After expiration of this period, an approved copy will be maintained at the school.

Should you desire to view the proposed Management Plan prior to its return by the State of Texas, a copy is maintained at the above address. If you have any questions about this federally mandated program please feel free to contact me at:

Dallas Independent School District
1602 Sante Fe
Dallas, Texas 75215
(214 - 426-3520)

Should you desire not to receive future notifications of the remaining school's Management Plan availability, please contact my Secretary Mrs. Opal Jones at the above telephone number.

Sincerely,

John P. Russell Jr.

John P. Russell Jr. P.E.
Director of Maintenance
DISD Asbestos Program Designee

cc: Larry Ascough
Mrs. Kathleen Patterson (For A.I.S.F.)

(Continued next page)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

American Federation of State, County, Municipal Employees
Association of Dallas School Psychologists
Classroom Teachers of Dallas
Dallas Art Education Association
Dallas Association for Bilingual Education
Dallas ASsociation for Education of Young Children
Dallas Association for Physical Education, Recreation & Dance
Dallas Association of Counselors
Dallas Association of Educational Office Personnel
Dallas Association of Home-School Coordinators
Dallas Association of Paraprofessionals
Dallas Association of School Librarians
Dallas Association of Texas Professional Educators
Dallas City Council of PTAs
Dallas Classified Personnel
Dallas Classroom Teachers Association
Dallas Council for the Social Studies
Dallas Council International Reading Association
Dallas Federation of Teachers
Dallas Food Service Association
Dallas Music Educators Association
Dallas Regional Alliance of Black School Educators
Dallas Retired Teachers Association
Dallas School Administrators
Dallas Teacher Education Center Council
Dallas Teachers Credit Union
District Communications Committee
Special Education PTA
Teachers Cooperative Hospital Benefit Association
United Teachers of Dallas

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

John P. Russell Jr. P.E.
Director of Maintenance
DISD Asbestos Program Designee
Dallas Independent School Dist.
1602 Sante Fe
Dallas, Texas 75215
(214 - 426-3520)

June 1, 1988

Mr. Joel H. Smith
Chief, Asbestos Programs Branch
Occupational Safety and Health Division
Texas Department of Health
1100 W. 49th Street
Austin, Tx. 78756

Dear Joel,

It is my understanding that you are the State of Texas Governor's designee to receive the Management Plans from the School Districts of Texas. It is with great pleasure that the Dallas Independent School District forwards its Management Plan for Seagoville Elementary School for your review and comments.

As you are aware, DISD has over 200 such plans to accomplish by the AHERA deadline. Since this is our first Management Plan, I would appreciate it if you would conduct an expeditious review of this binder, and provide comments directly to this office. Should it be more expedient, a verbal report would be satisfactory.

I look forward to hearing from you.

Sincerely,

John P. Russell

John P. Russell Jr. P.E.
Director of Maintenance
DISD Asbestos Program Designee

cc: Larry Ascough
Mrs. Kathleen Patterson (For A.I.S.F.)

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

(Dear Elem)

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
Joel H. Smith
Chief, Asbestos Program Branch
Occupational Safety & Health Div
Tex. Dept. of Health
1100 W. 49th St. Austin, Tex. 78756

4. Article Number
P251-306-132

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Reny

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

Recd. Card back 6-9-88

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

P 251 306 132 (Dear Elem)

RECEIPT FOR CERTIFIED MAIL

Mr. Joel H. Smith
Chief, Asbestos Program
Occupational Safety and
Texas Department of Hea
1100 W. 49th Street
Austin, Tx. 78756

	$ 456
Certified Fee	175
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 633
Postmark or Date	6/1/88

PS Form 3800, June 1985

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

JAN 25 1990

RECOMMENDED INTERIM GUIDELINES FOR STRIPPING ASBESTOS-CONTAINING FLOORS

The Environmental Protection Agency (EPA) recommends that school officials, building owners, and custodial/maintenance staff consider the following basic guidelines when stripping wax or finish coat from asbestos-containing floor coverings:

1. AVOID STRIPPING FLOORS. Stripping of floors should be done as infrequently as possible -- perhaps once or twice or less per year depending on circumstances. The frequency should be carefully considered as floor maintenance schedules or contracts are written or renewed.

2. PROPERLY TRAIN STAFF. Custodial or maintenance staff who strip floors should be trained to operate properly and safely the machines, pads, and floor care chemicals used at the facility.

3. FOLLOW APPROPRIATE WORK PRACTICES. Custodial or maintenance staff who strip floors should follow appropriate work practices, such as those recommended here, under informed supervision. Directions from floor tile and floor wax product manufacturers on proper maintenance procedures should be consulted.

4. STRIP FLOORS WHILE WET. The floor should be kept adequately wet during the stripping operation. Do NOT perform dry stripping. Prior to machine operation, an emulsion of chemical stripper in water is commonly applied to the floor with a mop to soften the wax or finish coat. After stripping and before application of the new wax, the floor should be thoroughly cleaned, while wet.

5. RUN MACHINE AT SLOW SPEED. If the machine used to remove the wax or finish coat has variable speeds, it should be run at slow speed (about 175-190 rpm) during the stripping operation.

ADD TO M.P.

6. SELECT THE LEAST ABRASIVE PAD POSSIBLE. EPA recommends that the machine be equipped with the least abrasive pad possible to strip wax or finish coat from asbestos-containing floors.

7. DO NOT OVERSTRIP FLOORS. Stop stripping when the old surface coat is removed. Overstripping can damage the floor and may cause the release of asbestos fibers. Do NOT operate a floor machine with an abrasive pad on unwaxed or unfinished floors.

REMEMBER: Improperly removing asbestos-containing floor covering could result in the release of high levels of asbestos. EPA recommends that you leave asbestos-containing floor covering in place, provided the material is in good condition. However, proper maintenance procedures, such as those outlined above, should always be followed.

REVISED DATE

ADD DURING UPDATES

4/19/90

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

B. MINIMIZATION RECOMMENDATION

None Required

C. WORK PRACTICES FOR THE MINIMIZATION CREW

None Required

D. WORK PRACTICES FOR THE ABATEMENT AND REPAIR CREWS

None Required

E. DISPOSAL OF WASTE ACM

None Required

F. FIBER RELEASE EPISODE REPORTING

None Required

G. RESPIRATOR PROGRAM

None Required

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

H. WORKER TRAINING PROGRAM

AHERA requires training for the designated Asbestos Program Manager, a two (2) hour Awareness Course for Custodial and Maintenance Staff (custodians, electricians, heating/air conditioning engineers, plumbers, etc.), and sixteen (16) hours of training for those maintenance employees who will conduct any activities which will result in th disturbance of asbestos-containing building materials.

1. Designated Asbestos Program Director:

   The DISD Asbestos Program Director has attended and successfully completed the Inspectors and Management Planners Course presented by the Environmental Institute. He has also attended in March 1986 the Georgia Tech Supervision of Asbestos Abatement Projects Training Course. Consequently, the DIDS Program Director has the basic knowledge outlined in Paragraph 763.84 (g)(2), necessary to perform his assigned duties.

2. The two (2) hour Awareness Asbestos awareness training will be provided by Trainers in the Operations Department under the direct supervision of Bill Chambliss, Training Manager - Operations. The schedule for the Asbestos Awareness Training Class are as follows:

   A. HVAC Operations Department are scheduled for May 11 - 12, 1988.

   B. Facility Care Maintenance Department are scheduled during the week of May 16 - 20, 1988, with a minimum of two (2) classes per day.

   C. Custodial Operations Department will be scheduled during the following weeks:

      1. May 30 thru June 3, 1988.
      2. June 6 thru June 10, 1988.
      3. August 1 thru August 5, 1988.
      4. August 8 thru August 12, 1988.
      5. August 15 thru August 19, 1988.

   D. Makeup classes for all employees that did not attend any of the above classes will be scheduled for new employees in the Maintenance and Custodial Operations Departments.

3. The following topics will be covered in the Asbestos Awareness Training Class:

   A. Information regarding asbestos and its various uses and forms.

   B. Information in the health effects associated with asbestos exposure.

   C. Locations of ACBM (Asbestos-Containing Building Materials) identified. (Note: Part of Management Plan).

   D. Recognition of damage, deterioration, and delamination of ACBM.

   E. The name and telephone number of LEA (Local Educational Agency - DISD) designated person.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

F. The availability and location of the Management Plan.

4. DISD has made the decision that none of the Custodial or Maintenance employees working in the schools will conduct any activities which will result in the disturbance of asbestos-containing materials. These activities including cleaning, operations and maintenance, minimization, repair, and abatement will be conducted with employees and under the direction of the Asbestos Control Division. The Asbestos Control Division will be composed of approximately fifteen (15) employees who have attended and successfully completed the EPA-approved and State accredited three (3) day Asbestos Abatement Workers Course. The course content for the Asbestos Abatement Workers Course meets and exceeds the requirements of the sixteen (16) hour training necessary for those employees who will disturb asbestos-containing material.

The Asbestos Control Division employees will be supervised by Messrs. Gene Sullivan and George Harris who have both attended the Contractor/Supervisor Asbestos Abatement Training Course.

a. George Harris, Field Supervisor - Asbestos Control Division
Contractor/Supervisor Asbestos Abatement
University of Texas at Arlington, June 1987

b. Gene Sullivan, Maintenance Manager - Asbestos Control Division
Contract Supervisor Asbestos Abatement
Georgia Tech, March 1986

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DALLAS INDEPENDENT SCHOOL DISTRICT

ASBESTOS CONTROL DEPARTMENT

SURVEY / UPDATE CERTIFICATION FORM

CAMPUS # AND NAME: Seagoville Elementary

	DATE OF INSPECTION	SIGNATURE OF INSPECTOR
6 - MONTH SURVEY:	2-13-89	Shirley Calmbe
12 - MONTH SURVEY:	4-16-90	James Hargrave
18 - MONTH SURVEY:	11/14/90	D Hill
24 - MONTH SURVEY:	5/21/91	R. Rosas
30 - MONTH SURVEY:		
36 - MONTH SURVEY:		

Each Inspector has verified that both the School Copy and the Original Plan are as accurate as possible on the date of Inspection. All available documentation for updating has been used, from both Contract and In House Project Files.

All Homogeneous Areas have been reinspected for change in material and in condition.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SEMI-ANNUAL SURVEILLANCE FORM
(MANAGEMENT PLAN INSERT)

1. Facility Name: New Seagoville Elementary School - 208

2. Date of Inspection: 1-20-89

3. List each Homogeneous Area found in Executive Summary Section of the Management Plan.

Change in condition of material, if yes explain on change form and attach.

YES NO

Asbestos Free Facility

Additional Comments:

Signature: Roy Carlisle Date: 2-13-89

Print: Roy Carlisle License#: 38021

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

J. ANNUAL MANAGEMENT PLAN UPDATE

Each year, the Asbestos Control Division Maintenance Supervisor of Documentation will notify the School Secretary that the Management Plan is to be returned for its annual update. Specific instructions will be given to the Secretary as to how this is to be accomplished.

Upon receipt of the School's copy of the Management Plan, this supervisor will compare it page for page to the Asbestos Control Division's master copy to insure that all pages are complete and that all work accomplished during the year have been included in the schools copy.

Official copies of the Management plan will be maintained only at the School and the Asbestos Control Division. Any other copies made of the Management Plan will be considered "Working Copies" and shall not be utilized for inspection purposes.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5-14-29
100M—7222—99-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

#2790

No 909775

Dallas Public Schools

Daniels
Craft Supervisor

Maintenance Use Only

☐ AGE	☐ ERS	☐ Mechanical
☐ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 04 (Mo.) - 28 (Day) - 04 (Yr.)

Requestor (972) 925-5300 Phone

School/Bldg. Seagoville E.S. Address 304 N. Kaufman St. Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 199 - FUNC. 51 - OBJECT 6319 - SUB. 00 - ORG. 464 - PROG. 492

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
613 / 27 /	Shirley Stafford	7312	2	
004 / 019 /	Wayne McKnight	9311	2	
/ /				
/ /				
/ /				
/ /	Labor Cost $ 73.06			
/ /				
/ /				
/ /				
/ /	Grand Total $ 73.06			
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				

Date Started: 04 / 28 / 04

Date Completed: 04 / 28 / 04

Principal/Department Head — 4 / 28 / 04 Date

Maintenance Employee — 04 / 28 / 04 Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

12-3-191
50M—5656—01-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

NO 147802

Dallas Independent School District

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☑ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

Craft Supervisor

MAINTENANCE WORK REQUEST

Typist

Date Mo. 01 - Day 27 - Yr. 04

Requestor Phone

School/Bldg. Seagoville Elem. Address 304 205 N Kaufman Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Security Alarm
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Shades
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Multi Skills
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	☐ OTHER
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: Transient Temperature

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY

EMERGENCY YES ☐ NO ☐

COMMENTS: informed principal of faulty heat pump. Recommended repair of this unit. Facility is "Asbestos Free"

Line Item FUND 199 - FUNC 51 - OBJECT 6399 - SUB 000 - ORG 276 - PROG 099

MATERIALS

Quantity	Description	Total

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
021-45-1546	Melvin M Goff	1013	7	
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				

Date Started: 1 / 9 / 04

Date Completed: 1 / 27 / 04

Principal Department Head — 1 / 9 / 04 Date

Maintenance Employee — 1 / 9 / 04 Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5-14-29
100M—7222—99-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

№ 907935

Dallas Public Schools

#2790

Daniels
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☑ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 11 - 14 - 03
Mo. Day Yr.

Requestor (972)925-5200
Phone

School/Bldg Seagoville E.S. Address 304 N. Kaufman St. Campus 209

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 199 - FUNC 51 - OBJECT 6319 - SUB. 00 - ORG. 964 - PROG. 499

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
615 21 7	Shirley Jeffcoat	2427	2	
004 01 9	Tiby nel McKnight	9311	2	
/ /				
/ /				
/ /				
/ /	Labor Cost $ 73.06			
/ /				
/ /				
/ /				
/ /	Grand Total $ 73.06			
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				

Date Started: 11 / 14 / 03

Date Completed: 11 / 14 / 03

Principal/Department Head

11 / 14 / 03
Date

Maintenance Employee

11 / 14 / 03
Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5-14-29
100M—7222—99-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

№ 979568

#2790

Dallas Public Schools

Daniels
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☐ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 05 - 15 - 03 (Mo. - Day - Yr.)

Requestor (972) 925-5300 Phone

School/Bldg. Seagoville E.S. Address 304 N. Kaufman St. Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box _____

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds _____	☐ Machinist	☐ Plumbing	OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC _____	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS: _____

Line Item FUND 199 - FUNC. 51 - OBJECT 6319 - SUB. 00 - ORG. 964 - PROG. 399

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
018 / 21 7 /	Shirley Jeffcoat	9312	2	
204 / 09 /	Layne McKnight	9311	2	
/ /				
/ /				
/ /				
/ /				
/ /	Labor Cost $ 70.32			
/ /				
/ /				
/ /				
/ /	Grand Total $ 70.32			
/ /				
/ /				
/ /				
/ /				
/ /				

Date Started: 05 / 15 / 03

Principal/Department Head

5/15/03
Date

Date Completed: 05 / 15 / 03

Shirley Jeffcoat
Maintenance Employee

05 / 15 / 03
Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

12-3-191
50M—5656—01-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

Dallas Independent School District

NO 144914

#7790

Daniels
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☒ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 11 - 13 - 02
Mo. Day Yr.

Requestor (972) 925-5300
Phone

School/Bldg. Seagoville Elem. School Address 304 N. Kaufman St. Campus 38

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Security Alarm
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Shades
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Multi Skills
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	☐ OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY

EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 199 - FUNC 51 - OBJECT 6319 - SUB 00 - ORG 944 - PROG. 399

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
[illegible]	Shirley Stewart	943	2	
[illegible]	Wayne McKnight	944	2	
	Labor Cost @ 10.33			
	Grand Total @ 10.33			

Date Started: 11 / 13 / 02

Date Completed: 11 / 13 / 02

Principal Department Head — 11 / 13 / 02 Date

Maintenance Employee — 11 / 13 / 02 Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

12-3-191
50M—5656—01-E
SC-03-01490

WHITE — Work Order Tracking
VARY — Supervisor
K — Craft Person
LDENROD — Originator

Dallas Independent School District

NO 123659

#2790

Brenden
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☒ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 05 - 20 - 02
Mo. Day Yr.

Requestor (972)925-5300
Phone

School/Bldg Seagoville Elementary Address 304 N. Kaufman St. Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Security Alarm
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Shades
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Multi Skills
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	☐ OTHER FSO
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 179 - FUNC. 1 - OBJECT 6319 - SUB. 00 - ORG. 7644 - PROG 279

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
418-21-[illegible]	Shirley Jettcoat	9312	2	
040-44-[illegible]	Lloyd McKnight	9311	2	
	Labor Cost		$ 64.00	
	Grand Total		$ 64.00	

Date Started: 05 / 20 / 02

Date Completed: 05 / 20 / 02

Principal Department Head

05 / 20 / 02
Date

Maintenance Employee

05 / 20 / 02
Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5-14-29
100M—7222—99-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

№ 863071

Dallas Public Schools

#2790

Broaden
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☑ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 11 - 26 - 01
Mo. Day Yr.

Requestor (972) 925-3800 Phone

School/Bldg. Seagoville Elementary Address 304 N. Kaufman St. Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 199 - FUNC. 51 - OBJECT 6319 - SUB. 00 - ORG. 964 - PROG. 299

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
213 617 /	Shirley Jeffcoat	9312	2	
240 419 /	Ubayak McKnight	9311	2	
/ /				
/ /				
/ /				
/ /				
/ /				
/ /	Labor Cost $64.00			
/ /				
/ /				
/ /				
/ /				
/ /	Grand Total $64.00			
/ /				
/ /				
/ /				
/ /				

Date Started: 11 / 26 / 01

Principal/Department Head 11 / 26 / 01 Date

Date Completed 11 / 26 / 01

Maintenance Employee 11 / 26 / 01 Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

5-14-29
100M—7222—99-E
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

№ 840549

Dallas Public Schools

#2190

Broaden
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☑ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 05 - 29 - 01
Mo. Day Yr.

Requestor (972)925-5300
Phone

School/Bldg. Seagoville Elementary Address 304 N. Kaufman St. Campus 108

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds	☐ Machinist	☐ Plumbing	OTHER ESD
☐ Electrical	☐ Fleet Maint.	☐ HVAC	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY

EMERGENCY YES ☐ NO ☐

COMMENTS:

Line Item FUND 199 - FUNC. 51 - OBJECT 6319 - SUB. 00 - ORG. 964 - PROG. 199

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
018 21 7 /	Shirley Jeffcoat	2310	2	
040 14 9 /	Lloyd McKnight	2311	2	
/ /				
/ /				
/ /				
/ /				
/ /				
/ /				
/ /	Labor Cost $61.54			
/ /				
/ /				
/ /				
/ /				
/ /	Grand Total $61.54			
/ /				
/ /				
/ /				

Date Started: 05/29/01

Date Completed: 05/29/01

Joe McCabe 05/29/01
Principal/Department Head Date

Shirley Jeffcoat 05/29/01
Maintenance Employee Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

11-18-126
200M—4541—96-S
SC-03-01490

WHITE — Work Order Tracking
CANARY — Supervisor
PINK — Craft Person
GOLDENROD — Originator

NO 747858

Dallas Public Schools

#2190

Broaden
Craft Supervisor

Maintenance Use Only

☐ ACE	☐ ERS	☐ Mechanical
☐ ASB	☐ Finish	☐ Roof
☐ Central	☐ Grounds	☐ Structural
☐ Comm.	☐ HVAC	☐ Technology
☐ Cust. Serv.		

MAINTENANCE WORK REQUEST

Typist

Date 06 (Mo) - 06 (Day) - 00 (Yr.)

Requestor (972) 925-5300 Phone

School/Bldg. Seagoville Elementary Address 304 N. Kaufman St. Campus 208

Vandalism Involved? **(If Yes, Vandalism Report MUST Be Attached)** School Mail Box _____

CRAFT INFORMATION (Check one craft only per work order)

☐ Cable/Computer	☐ Exterminate	☐ Floor Finish	☐ LRE	☐ Paint	☐ Roofing
☐ Cable/TV	☐ Fence	☐ Furniture/Mill	☐ Refrigeration	☐ Phone	☐ Security Alarm
☐ Carpentry	☐ Fire Alarm	☐ Glass	☐ Locksmith	☐ Plaster/Ceramic	☐ Shades
☐ Concrete	☐ Fire Exting.	☐ Grounds_____	☐ Machinist	☐ Plumbing	OTHER ESO
☐ Electrical	☐ Fleet Maint.	☐ HVAC_____	☐ PA/Sound	☐ Radio/Pager	

DESCRIPTION OF WORK AND LOCATION: update management plan book

Larry Munson 6-6-00
Authorized Signature/Principal Dept. Head

MAINTENANCE DEPARTMENT USE ONLY EMERGENCY YES ☐ NO ☐

COMMENTS: _____

Line Item FUND 199 - FUNC. 51 - OBJECT 6319 - SUB. 00 - ORG. 964 - PROG. 097

MATERIALS

Quantity	Description	Total
	N/A	

EMPLOYEE TIME

Social Security No.	Name	Oper.	Hours	O.T.
461-51-3914	Shirley Offcoat	942	1	
	Labor Cost $ 13.69			
	Grand Total $ 13.69			

Date Started: 06/06/00

D. McCalester 6/6/00
Principal/Department Head Date

Date Completed: 06/06/00

Shirley Offcoat 06/06/00
Maintenance Employee Date

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

VI. ASBESTOS CONTROL DIVISION DOCUMENTATION

A. MINIMINIZATION ACTIVITIES FORMS

Not applicable at this campus

B. ABATEMENT AND REPAIR CREW DOCUMENTATION

Not applicable at this campus.

C. DIAGRAM OF ACBM REMAINING ON CAMPUS (Only if different from Section II C.)

No asbestos-containing building material is present at Seagoville Elementary.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION VII LABORATORY ANALYSIS INFORMATION

A. LABORATORY ACCREDITATION LETTER

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Microanalysis Laboratory, Inc.
8499 Greenville Avenue, Suite 201
Dallas, Texas 75231
(214) 340-0890

March 17, 1988

Mr. Gene Sullivan
Dallas Independent School District
Asbestos Control Team
1602 Santa Fe
Dallas, Texas 75215

Re: Accreditation Number

Dear Mr. Sullivan:

As per your request, please find enclosed our accreditation number issued by the Research Triangle Institute.

The number is 6590.

Microanalysis Laboratory, Inc. looks forward to continued affiliation with Dallas Independent School District. If we can be of any further service to you, please feel free to contact us.

Thank you,

Carolyn W. Jones

Carolyn W. Jones
President
MICROANALYSIS LABORATORY, INC.

CWJ/jlt

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SECTION VII LABORATORY ANALYSIS INFORMATION

B. SAMPLE CONTROL REPORT/CHAIN-OF-CUSTODY FORMS

The Sample Control Reports/Chain-of-Custody forms for this school are filed in this section.

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1-3 22

PETROGRAPHIC ANALYSIS

(Type and Weight % of Asbestos)

88-0226

Sample	Asbestos present: Yes	Asbestos present: No	Chrysotile	Amosite	Anthophyllite	Tremolite-Actinolite	Crocidolite	Other fibrous Constituents	Homogeneous: Yes	Homogeneous: No	Dispersion Oil
B820497 033		✓						Cellulose Verm. Quartz	✓		1.550
B820498 094		✓						Quartz, Perlite Cell., $CaCO_3$	✓		1.550
B820499 089		✓				poss A or T		Cellulose Verm. CaSO4 Quartz	✓		1.550
B820500 B 047		✓						Cell., Vermiculite Quartz, Perlite $CaCO_3$, CaSO4		✓	1.550
B820501 B 023		✓						CaSO4, Quartz Cellulose, Gypsum Polyethylene		✓	1.550
B820502 B/C 004	A B C	A ✓ B ✓ C ✓						Quartz, CaSO4 Cellulose, Talc Ceramic Fiber		✓	1.550
B820503 B/C 090	A B C	A ✓ B ✓ C ✓						Quartz, CaSO4 MW, Cell.		✓	1.550
B820504 A B 016	✓	— ✓	(A) Trace					$CaSO_4$ Quartz Verm. Gypsum CaSO4 Cellulose Quartz		✓	1.550
B820505 043		✓						Quartz Cellulose Verm. CaSO4	✓		1.550
B820506 A B 005		✓ ✓						cellulose Cellulose Quartz CaSO4		✓	1.550
B820507 011		✓						cellulose Talc	✓		1.550
B820508 A B 065		✓ ✓						cellulose cellulose CaSO4 Gypsum		✓	1.550
B820509 030		✓						cellulose	✓		1.550
B820510 142	A B C	✓ B ✓ C						cellulose Min. wool cellulose Min. wool CaSO4 Cell., Min. wool CaSO4		✓	1.550
B820511 102		✓						cellulose Min. wool Glass	✓		1.550

MICRO - ANALYSIS LABORATORIES

mr RJE 4PK

041 A White Plaster B Tan Paint
023 A Plaster

004 A Paint B Paper C White Plaster

090 A Plaster B Paper C Paint

016 A Paint B Plaster

005 A Paper B Plaster

065 A Paper

142 - A - PAPER B - Paint

28A

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PETROGRAPHIC ANALYSIS

(Type and Weight % of Asbestos)

88-0226

Sample	Asbestos present: Yes	Asbestos present: No	Chrysotile	Amosite	Anthophyllite	Tremolite-Actinolite	Crocidolite	Other fibrous Constituents	Homogeneous: Yes	Homogeneous: No	Dispersion Oil
B820527 026		✓						Cellulose, Paint Cells	✓		1.550
B820528 044		✓						Calcite, Cellulose	✓		1.550
B820529 A B/C 008	A ✓ B ✓ C	A ✓ B ✓ C						Casoy, Calcite Cellulose		✓	1.550
B820530 202		✓						Mineral Wool	✓		1.550
B820531 028	A ✓ B	A ✓ B						Mica, FiberGlass Ceramic Fiber, Quartz		✓	1.550
B820532 025		✓						Mica Cellulose	✓		1.550
B820533 032		✓						Quartz, Mica Cellulose	✓		1.550
B820534 A B/C 006	A ✓ B ✓ C	A ✓ B ✓ C						Gypsum, Calcite Cellulose		✓	1.550
B820535 A B/C 036	A ✓ B ✓ C	A ✓ B ✓ C						Calcite Cellulose cellulose Quartz Calcite Cellulose		✓	1.550
B820536 A B 022	A ✓ B	A ✓ B						Cellulose, MW Cellulose MW Fiberglass		✓	1.550
B820537 070		✓						Cellulose Quartz	✓		1.550 Cu
B820538 104		✓						Cellulose, Tar Quartz Polyester	✓		1.550 Cu
B820539 112	✓		15-25%					Cellulose Quartz $CaCO_3$	✓		1.550 B
B820540 127	✓		20-30%					Cellulose calcite quartz	✓		1.550 B
B820541 149		✓						Ceramic Fiber Cellulose Cotton	✓		1.550 B

MICRO - ANALYSIS LABORATORIES

Deagoville Lamb.

Pk

Pk

Pk

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PETROGRAPHIC ANALYSIS

(Type and Weight % of Asbestos)

88-0226

Sample	Asbestos present Yes	Asbestos present No	Chrysotile	Amosite	Anthophyllite	Tremolite-Actinolite	Crocidolite	Other fibrous Constituents	Homogeneous Yes	Homogeneous No	Dispersion Oil
PK B820512 A		✓						Min. Wool Glass cellulose		✓	1.550
B 143		✓						cellulose, CaSO4 Quartz			
PK B820513 A		✓						Cellu. Min. Wool Glass Quartz Cellulose		✓	1.550
B 009		✓						Mineral wool, CaSO4			
PK B820514		✓						Mineral Wool cellulose & Glass Quartz	✓		1.550
114											
PK B820515 A	/	✓						Cells Min Wool perolite Glass Min wool PAINT		✓	1.550
B 093		✓						cellulose Quartz			
PK B820516		✓						wood cellulose	✓		1.550
029											
PK B820517		✓						Quartz CaSO4 cellulose	✓		1.550
020											
PK B820518		✓						cellulose	✓		1.550
017											
PK B820519		✓						cellulose	✓		1.550
048											
PK B820520 A	/	✓						cellulose Green DYE		✓	1.550
B 085	/	✓						cellulose			
PK B820521 A		✓						cellulose Paint Vermiculite		✓	1.550
B 014		✓						" " "			
PK B820522 A	/	✓						CaSO4 + cellulose Quartz		✓	1.550
B C 040	B /	B ✓						cellulose CaSO4 Quartz cellulose Paint			
PK B820523 A	/	✓						cellulose Green Dye		✓	1.550
B 03A		✓						cellulose			
RSE B820524		✓						Cellulose	✓		1.550
196											
RSE B820525		✓						Polyamide; Cellu Quartz, Ceramic Fiber	✓		1.550
013											
RSE B820526 A	A /	A ✓						$CaCO_3$, Quartz Calcite		✓	1.550
B 018	B	B ✓									

143 = A - Grey, B - Red Brown

093 = A - Fiber, B - Paint

014 = A Paint, B Paper, C Chalk

018 A Paint, B Plaster

... PTE PK

MICRO-ANALYSIS LABORATORIES

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SECTION VIII AHERA ACCREDITATION INFORMATION

A. ASSURANCES, ACCREDITATION & COMPLIANCE STATEMENTS

1. This AHERA management plan was developed and has been submitted pursuant to the Asbestos Hazard Emergency Response Act of 1986, Public Law 990519; and the United States Environmental Protection Agency Rule: Asbestos Containing Materials in Schools, 40 CFR Part 763; and the undersigned does hereby assure and certify the following:

2. The activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Part 763.

3. All custodial and maintenance employees are properly trained as required by Part 763 and all other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration Asbestos Standard for Construction, the EPA Worker Protection Rule, or applicable State regulations).

4. All workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.

5. All short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM.

6. All warning labels are posted in accordance with Section 763.95.

7. All management plans are available for inspection and notification of such availability has been provided as specified in the management plan under Section 763.93(g).

8. The person designated by the LEA pursuant to Section 763.84(g)(1) has received adequate training as stipulated in Section 763.84(g)(2).

9. The District has considered whether any conflict of interest may arise from the interrelationship among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under Part 763.

10. That the following supplemental information is a part of this AHERA management plan.

    a. A listing of the name, signature and accreditation credentials of the following accredited persons: (Accreditation credentials include a statement that the person is accredited by an EPA approved course or is accredited by another State):

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- o inspector(s)
- o inspector(s) who collected bulk samples
- o person(s) who made assessments
- o person(s) who made recommendations regarding response actions
- o person(s) who designed response action(s)
- o consultant(s) who worked on management plan

b. An architectural-quality, small scale plan which identifies every space in the building.

c. Copies of substantiating data on AHERA Management Plan forms have been provided herein.

d. The name and address of the certified laboratory that analyzed bulk samples, a statement that the laboratory meets applicable requirements of Section 763.87(a), dates of analysis, copies of analysis, and the name and signature of analyzer.

e. Plans and specifications for response actions.

f. A plan for reinspection pursuant to Section 763.85(b) at least once every three (3) years after the management plan is implemented.

g. A plan for O&M activities (not by public LEAs) pursuant to Section 763.91.

h. A plan for Periodic Surveillance pursuant to Section 763.92

i. A listing of additional cleaning recommended in conjunction with O&M activities and the response to the recommendation pursuant to Section 763.93e9.

j. A detailed description of the steps taken to inform workers and building occupants about inspections, reinspections, response actions and post-response actions pursuant to Section 763.93e10.

k. A detailed description of the steps taken annually to notify, in writing, parent, teacher, and employee organizations of the availability of the management plan, and a dated copy of notifications, pursuant to Section 763.93g4.

11. That the following records are, or will be, retained for three (3) years after the next reinspection (Section 763.94).

a. For each preventative measure or response action taken, a detailed description of the activity, location, reasons for selecting activity, start and completion dates, names and addresses of all contractors and their accreditation credentials, and if ACBM removed, the name and location of the storage or disposal site. (Section 763.94b1)

b. For the completion of response actions pursuant to Section 763.901, the name and signature of each person collecting air samples, the location where each sample was collected, date of collection, name and address of laboratory, date of analysis, results of analysis, method of analysis, name and signature of person performing analysis and statement

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

that the laboratory meets the requirements of Section 763.90i2ii. (Section 763.94b2)

c. For staff training required by Section 763.92(a), each person's name, job title, date of training, location of training and number of hours completed. (Section 763.94c)

d. For cleaning required by Section 763.91(c), the name of each person performing the cleaning, date of cleaning, location of cleaning and methods used. (Section 763.94e)

e. For each O&M activity performed pursuant to Section 763.94f, the name of each person performing the activity, the start and completion date, the location of the activity, and if ACBM removed, the name and location of the storage or disposal site. (Section 763.94f)

f. For each major asbestos activity under Section 963.91e, the name, signature, accreditation credentials of each person performing the activity, the start and completion dates of the activity, the location of the activity, a description of the activity, and if ACBM is removed, the name and location of the storage or disposal site. (Section 763.91g)

g. For each fiber release episode under Section 763.91f, the date and location of the episode, the preventative measure or response action taken, the name of each person performing the work, and if ACBM is removed, the name and location of the storage of disposal site. (Section 763.91h)

12. ACCREDITED CONTRACTOR CERTIFICATION STATEMENT

a. Dallas Independent School District will only use persons who are accredited to conduct asbestos activities in schools.

b. Any person who will be employed as an Asbestos Inspector, Management Planner, Project Designer, Supervisor, and all workers and contractors must be accredited by an EPA-Approved Training Course and the State of Texas, before such work commences.

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13. Management Planner Certification Statement

I, HOWARD COLE, representing the Dallas I.S.D assert that I am an Accredited Management Planner having attended an EPA-Approved Management Planner Course and successfully passed the examination as indicated in the attached certificate of completion.

Howard A. Cole

HOWARD A. COLE
DISD MANAGEMENT PLANNER

14. DISD Asbestos Designee Statement

The Management Plan for Seagoville ELEMENTARY SCHOOL has been prepared to the best of my knowledge and ability and is in compliance with Sub-Part E of AHERA. Additionally, the Dallas Independent School District certifies that the LEA responsibilities outlined in Paragraph 763.84 of AHERA have been met. I further certify that I am an accredited Management Planner having attended an EPA approved Management Planners Course and successfully passed the examination as indicated in the attached certificate of completion.

John P Russell Jr

JOHN P. RUSSELL JR. P.E.
DISD ASBESTOS PROGRAM DIRECTOR

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B. ACCREDITATION CERTIFICATES

Filed in this section are copies of the AHERA Accreditation Certificates for the Management Planners and DISD Designated Asbestos Program Director.

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DATE: April 26, 1988

TO: WHOM IT MAY CONCERN

SUBJECT: AHERA - Designated Person

FROM: Otto Fridia

Federal Regulation 40CFR, Part 763 Asbestos-containing Materials in Schools, (Federal Register, Friday, October 30, 1987) requires all school districts to identify an individual as the districts' asbestos designee.

The Dallas Independent School District's "designated person" shall be:

John P. Russell, Jr., P.E.
Director of Facility Care,
1602 Santa Fe, Dallas, TX. 75215,
Telephone - 214/426-3520.

Sincerely,

Otto Fridia
Acting General Superintendent

cc: William H. Cotton
Milton Miller
Larry Ascough
Robert L. Johnston
Richard Adams
John Russell, Jr.
Gene Sullivan

OJ32/FC-1339

Dallas Independent
School District

Linus Wright
General Superintendent

3700 Ross Avenue
Dallas, Texas 75204-5491
(214) 824-1620

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The Environmental Institute

John P. Russell, Jr.

Has completed coursework and satisfactorily passed
an examination that meets all criteria required for the
EPA-Model Accreditation Course

Asbestos in Buildings: The Management Plan

1166
Certificate Number

April 22, 1988
Date

Director, The Environmental Institute

Exam Administrator

Completed Course & Examination Requirements for EPA-Model Accreditation.
ASBESTOS IN BUILDINGS:
THE MANAGEMENT PLAN
Sponsored By
The Environmental Institute

April 22, 1988
EXAMINATION DATE
ASSOCIATE DIRECTOR

John P. Russell, Jr., P.
SIGNATURE
447-54-1143
SS#

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

The Environmental Institute

John P. Russell, Jr.

Has completed coursework and satisfactorily passed
an examination that meets all criteria required for the
EPA-Model Accreditation Course

Asbestos in Buildings: Inspection and Assessment

1246
Certificate Number

April 20, 1988
Date

Director, The Environmental Institute

Exam Administrator

April 20, 1988
EXAMINATION DATE

ASSOCIATE DIRECTOR

Completed Course & Examination Requirements for EPA-Model Accreditation.

ASBESTOS IN BUILDINGS:
INSPECTION & ASSESSMENT

Sponsored By
The Environmental Institute

John P. Russell, Jr. P.E
NAME

SIGNATURE

447-54-1143
SS#

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

The Office of Continuing Education
The University of Texas at Arlington

Certificate of Achievement
Awarded to

Howard Cole

in recognition of the successful completion of

ASBESTOS ABATEMENT TRAINING
PROGRAM: Management Planners
Course for Asbestos Abatement
Projects
Arlington, TX, November 5-6,1987

1.5 CEU's

November 4, 1987
Date

Lois N. Glasser
Office of Continuing Education

Certificate #: M048

33D

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(9)

RECEIVED
MAINT. DEPT
1988 AUG 18 PM 2:01

ACKNOWLEDGEMENT OF RECEIPT OF THE AHERA MANAGEMENT PLAN AND BRIEFING

DATE: August 15 1988

SCHOOL NAME: Braxton Elem

PRINCIPAL'S NAME: Stacy J. Mosley, Jr.

TRAINER'S NAME: JOHN H. WATKINS

I acknowledge receipt of the AHERA Management Plan and Inspection Report for my school. Additionally, my signature below indicates that this plan has been explained in detail, along with the following topics:

A. Security of the AHERA Plan/Inspection Report Binders.

B. Availability of the AHERA information to the general public.

C. Procedures to provide copies of this plan to the public.

D. Semi-annual surveillance, annual plan up-date, and tri-annual reinspection processes.

E. Site specific information, such as the location of asbestos has been provided to my Facility Supervisor and Leadperson. These personnel shall insure that all other Custodial Services personnel at my school are shown the location of friable asbestos at our campus.

F. Civil and criminal penalties for violation of the AHERA Regulations.

Stacy J. Mosley, Jr.
PRINCIPAL

John H. Watkins
TRAINER

NOTE: The original of this form MUST be sent to the Asbestos Control Division, Box 75, for file in the Management Plan. A copy of this acknowledgement shall be retained by the Trainer.

SH18/MD-300

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IX. MISCELLANEOUS DOCUMENTATION

A. FIREMANS FUND INSPECTION REPORT

This building had not yet been constructed when the Fireman's Fund Building Inspection Report was being compiled. The previous Seagoville Elementary School now serves as a Maintenance Facility.

Building was constructed after 1982 Fireman's Fund Building Inspection Report was conducted; and consequently no report exists.

B. SEMI-ANNUAL PERIODIC SURVIELLANCE FORMS

Not applicable at this campus.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

DALLAS INDEPENDENT SCHOOL DISTRICT

FACILITY CARE DIVISION

AHERA INSPECTION REPORT

SEAGOVILLE ELEMENTARY SCHOOL
306 KAUFMAN STREET
SEAGOVILLE, TEXAS 75154

Key Map Location	W-21
Total Facility Sq. Ftg.:	66,000
Inspection Date:	1-26 / 2-5-88
Inspectors:	Daniel Marple James Hargrave
Total Bulk Samples Collected:	42

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

TABLE OF CONTENTS

SECTION	DESCRIPTION
A.	Building Description
B.	Site and Floor Plans
C.	Inspectors Executive Summaries
D.	Sample Analysis Report
E.	Homogenous Area Information

Homogenous Areas	Description
E1	Ceiling Tile
E2A	Floor Carpet
E2B	Floor Vinyl
E2C	Floor Ceramic
E3A	Walls Formica
E3B	Walls Sheetrock
E3C	Walls Brick
E4	Crawlspace
E5	Mechanical Room
E6	Chiller Unit
E7	Chalkboards
E8	Air Handlers
E9	Roof
E10A	Miscellaneous ACM Countertops
E10B	Miscellaneous Curtains
E10C	Miscellaneous Fire Doors

SECTION	DESCRIPTION
F.	AHERA Accreditation Information

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION X

DALLAS INDEPENDENT SCHOOL DISTRICT

AHERA TRIENNIAL REINSPECTION ATTESTATION
SEAGOVILLE ELEMENTARY SCHOOL

As required by EPA 40 CFR 763.85, at least once every three years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and non friable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building.

Seagoville Elementary School was built in 1986. Inspectors were Daniel Marple I-240, and James Hargrave I-227, (respectively). The Executive Summary states that of the suspect materials tested, no ACBM was found.

No renovations have been made to the facility since it's construction in1986. [40 CFR, part 7763.93(e)(4)].

As of the date of this Reinspection, this facility remains asbestos free.

I certify that I am the accredited Inspector/Management Planner who performed the AHERA triennial reinspection for: **SEAGOVILLE ELEMENTARY SCHOOL.**

DISTRICT ASBESTOS DESIGNEE

TEXAS LICENSE: 50-0171

SIGNATURE Jeff Bragden DATE 1-9-04

INSPECTOR/MANAGEMENT PLANNER

TEXAS LICENSE: 20-5424

SIGNATURE [signature] DATE 1-9-2004

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

D. INSPECTION EXECUTIVE SUMMARY

Seagoville Elementary School was constructed in 1986. The building has a metal deck with suspended tile ceilings. The floor is predominantly carpet layed over concrete, except for the cafeteria which has a ceramic floor, and a few areas which have vinyl flooring. The hall way and exterior walls are pressed wood and formica. The classrooms have gypsum walls.

The mechanical rooms including air handlers were found to contain only fiberglass and foam insulation; consequently, no thermal system insulation was sampled. This building has no crawl space.

Miscellaneous materials sampled include chalkboards, countertops, and stage curtains.

The homogeneous areas of suspect building materials are identified on a previous page. A total of forty-five (45) samples were taken and no asbestos-containing material was found in any building product.

1. FRIABLE ASBESTOS BY HOMOGENOUS AREA

No friable asbestos-containing material was found in Seagoville Elementary School.

2. NON-FRIABLE ASBESTOS BY HOMOGENOUS AREA

No non-friable asbestos-containing material was found at Seagoville Elementary School.

3. SECTION SUMMARY FORMS FROM HOMOGENEOUS AREAS FOUND TO HAVE ACM

No asbestos-containing building material is present in Seagoville Elementary School.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION III HAZARD ASSESSMENT CLASSIFICATIONS

A. MECHANICAL ROOM

No asbestos-containing material was found; consequently no hazard assessment is required.

B. CRAWL SPACE & RISERS -

No asbestos-containing material was found; consequently no hazard assessment is required.

C. FLOOR TILE -

No asbestos-containing material was found; consequently no hazard assessment is required.

D. CEILING MATERIAL

No asbestos-containing material was found; consequently no hazard assessment is required.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

SECTION X

DALLAS INDEPENDENT SCHOOL DISTRICT

AHERA TRIENNIAL REINSPECTION ATTESTATION

SEAGOVILLE ELEMENTARY SCHOOL

As required by EPA 40 CFR 763.85, at least once every three years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and non friable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building.

As of the date of this reinspection this facility remains asbestos free.

I certify that I am the accreditied Inspector/Management Planner who performed the AHERA triennial reinspection for: **SEAGOVILLE ELEMENTARY SCHOOL.**

PRINT NAME: **Gary W. Hille**

Gary W. Hille 6-24-98

SIGNATURE DATE

TEXAS ACCREDITATION **TEXAS LICENSE**

MANAGEMENT PLANNER NO. 20-5132

REINSP/2590

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DALLAS INDEPENDENT SCHOOL DISTRICT

TRIENNIAL REINSPECTION COVER SHEET

AHERA MANAGEMENT PLAN

SEAGOVILLE ELEMENTARY SCHOOL

Principal	Stacy T. Mosley Jr.
Address	304 N. Kaufman Street Seagoville, Texas 75159

Triennial Reinspection Date:	5/8/95
Approximate Facility Square Footage:	66,000 SF

Inspection Findings

Friable ACBM	No
Non Friable ACBM	No
Friable Assumed ACBM	No
Non Friable Assumed ACBM	No

NAME	STATE OF LICENSE.	LICENSE NO.
I. INSPECTOR		
Daryl V. Daniels	Texas	60-0681
II. MANAGEMENT PLANNER		
Daryl V. Daniels	Texas	20-5253
III. DESIGNATED ASBESTOS PROGRAM DIRECTOR		
David Strobel	Texas	89-7243

REINSP/
SECTION X

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

DALLAS INDEPENDENT SCHOOL DISTRICT

AHERA TRIENNIAL REINSPECTION

SEAGOVILLE ELEMENTARY SCHOOL

All of the information contained within this reinspection report pertains to the type, quantity, location, and condition of all friable and non friable known or assumed ACBM which was discovered at the time that the reinspection was performed. All information prior to the reinspection date may be found in Sections I-IX of this Management Plan.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

LOCAL EDUCATION AGENCY (LEA) GENERAL RESPONSIBILITIES UNDER AHERA

Pursuant to Section 763.84 and Section 763.93 of the EPA Asbestos in Schools Regulation (40 CFR Part 763), each management plan must contain a true and correct statement, signed by the LEA designated person, that certifies that the general LEA responsibilities have been met. This form is provided to assist you in complying with this portion of AHERA.

LEA Name Dallas Independent School District

LEA Address 3700 Ross Ave. Dallas, Tx 75204

Designated Person Name Jeff S. Brogden

Designated Person Address 2419 Cockrell Ave. Dallas, Tx 75215

ASSURANCES

1. This AHERA management plan was developed and has been submitted pursuant to the Asbestos Hazard Emergency Response Act of 1986, Public Law 99-519; and the United States Environmental Protection Agency Rule: Asbestos Containing Materials in Schools, 40 CFR Part 763; and the undersigned does hereby certify that the LEA has and will ensure the following:

2. The activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Part 763

3. All custodial and maintenance employees are properly trained as required in Part 763 and all other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration Asbestos Standard for Construction, the EPA Worker Protection Rule, or applicable State regulations).

4. All workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, post-response action activities, including periodic reinspection and surveillance activities, that are planned or in progress.

5. All short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM.

6. All warning labels are posted in accordance with Section 763.95.

7. All management plans are available for inspection and notification of such availability has been provided as specified in the management plan under Section 763.93(g).

8. The undersigned person designated by the LEA pursuant to Section 763.84(g)(1) has received adequate training as stipulated in Section 763.84(g)(2).

9. The LEA has and will consider whether any conflict of interest may arise from the interrelationship among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under Part 763.

Signed Jeffrey Brogden
LEA Designated Person, pursuant to 40 CFR 763.93(i) and 763.84

Date: 5-15-2001

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SECTION X TRIENNIAL REINSPECTION HAZARD ASSESSMENT SEAGOVILLE ELEMENTARY SCHOOL

PLEASE REFER TO THE ORIGINAL HAZARD ASSESSMENTS (FOUND IN SECTION III) FOR THIS FACILITY.

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SECTION X TRIENNIAL REINSPECTION RESPONSE ACTIONS SEAGOVILLE ELEMENTARY SCHOOL

PLEASE REFER TO THE ORIGINAL RESPONSE ACTION RECOMMENDATIONS (FOUND IN SECTION IV) FOR THIS FACILITY.

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SECTION X

DALLAS INDEPENDENT SCHOOL DISTRICT

AHERA TRIENNIAL REINSPECTION ATTESTATION

SEAGOVILLE ELEMENTARY SCHOOL

As required by EPA 40 CFR 763.85, at least once every three years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and non friable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building.

I certify that I am the accredited Inspector/Management Planner whom performed the AHERA triennial reinspection for: **Seagoville Elementary School.**

PRINT NAME: **Daryl V. Daniels**

Daryl V. Daniel 6-8-95

SIGNATURE DATE

	TEXAS ACCREDITATION	TEXAS LICENSE
INSPECTOR NO.	95060	60-0681
MANAGEMENT PLANNER NO.	95030	20-5253

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GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Daryl V. Daniels

467-53-8513

has successfully completed the Environmental Training Program entitled

Asbestos Inspector Course

GEBCO

Conducted at Hurst, Texas on February 7 -9, 1994. This is an EPA fully approved course for purposes of accreditation under Section 206 of TSCA.

Certificate expires one year from date of issue.

2.4 Continuing Education Units

Eugene W. Daniels
Course Director

02/09/94
Date of Issue

94007
Certificate Number

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training programs under the Texas Asbestos Health Protection Rules of October, 1992.

GEBCO Associates, Inc. • 669 Airport Fwy. Suite 210 • Hurst, TX 76053 • (817) 268 4006

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GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Daryl V. Daniels

467-53-8513

has successfully completed the Environmental Training Program entitled

Asbestos Management Planner Course

GEBCO

Conducted at Hurst, Texas on May 12 - 13, 1994. This is an EPA fully approved course for purposes of accreditation under Section 206 of TSCA. It covers topics listed in the NESHAP training requirement of 40 CFR, Part 61, subpart M.

Certificate expires one year from date of issue.

1.6 Continuing Education Units

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training programs under the Texas Asbestos Health Protection Rules of October, 1992.

Course Director

05/13/94

Date of Issue

94011

Certificate Number

GEBCO Associates, Inc. • 669 Airport Fwy. Suite 210 • Hurst, TX 76053 • (817) 268 4006

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: 4-28-04

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

c:period.doc

Inspected By: ~~Shirley Affcoat~~ Wayne Knight

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: 11-14-03

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Offcoat
Wayne Perkins

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: 5-15-03

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Jeffcoat
Wayne W. Knight

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville Elem. School

File # 2190

Survey Date: 11-13-02

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Delcoat
Wayne McKnight

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: _____

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Jeffcoat
Wayne Kelly

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: 11-26-01

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Jeffcoat
Wayne (RC) Knight

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville Elementary

File # 2790

Survey Date: 5-29-01

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Shirley Offcoat
Wayne Nichols

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville E.S.

File # 2790

Survey Date: 6-6-00

Delwood Portable Book

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free.		

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Inspected By: Shirley Jeffcoat

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville Elementary

File # 2790

Survey Date: 1-5-00

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Jeffcoat, Hill

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Dallas Public Schools

ENVIRONMENTAL SERVICES DIVISION
Semi Annual Periodic Survey Form

Facility Name: Seagoville Elementary

File # 2790

Survey Date: 1-21-99

Homog. Area ID	Mngmt. Plan Assessment	Change In Condition YES/NO	Describe Change In Condition, Cause Of Change, Potential For Future Change	Work Order Required YES/NO	Work Order No.
			Asbestos Free		

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Inspected By: Jeffcoat

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Environmental Services Division

Periodic Survey Form # 2790

Facility Name: Seagoville Elementary Date Inspected: 1-22-99

Homogenous Area ID	Management Plan Assessment	Change In Condition (Yes / No)	If (Yes) Describe change in condition, cause of change, Potential for Future Change.	Work Order Requested (Yes/No)	If (Yes) Work Order Number
			Asbestos Free		

Inspected by Jeffcoat, McKnight

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Environmental Services Division

Periodic Survey Form #2790

Facility Name: Seagoville Elem. Date Inspected: 1-12-98

Homogenous Area ID	Management Plan Assessment	Change In Condition (Yes / No)	If (Yes) Describe change in condition, cause of change, Potential for Future Change.	Work Order Requested (Yes/No)	If (Yes) Work Order Number
			Asbestos Free		

Inspected by Jeffcoat, McKnight

Environmental Services Department

Periodic Survey Form 2740

Facility Name: Sergeville Elem. Date Inspected: 5-8-96

Homogenous Area ID	Management Plan Assessment	Change in Condition (Yes/No)	If (Yes) Describe Change in Condition, Cause of Change, Potential for Future Change	Work Order Required (Yes/No)	If (Yes) Work Order (#)
			Asbestos Free		

Inspected By: J. Potter, W. McKnight, S. Jeffcoat

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Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Environmental Services Department

Periodic Survey Form 2790

Facility Name: Seagoville Elem. **Date Inspected:** 5-18-95

Homogenous Area ID	Management Plan Assessment	Change in Condition (Yes/No)	If (Yes) Describe Change In Condition, Cause of Change, Potential for Future Change	Work Order Required (Yes/No)	If (Yes) Work Order (#)
—	—	—	Asbestos Free	—	—

Inspected By: Jeff Potter & Wayne McKnight

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Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

Environmental Services Department

Periodic Survey Form

#2790

Facility Name: Seagoville Elem. Date Inspected: 3-18-97

Homogenous Area ID	Management Plan Assessment	Change in Condition (Yes/No)	If (Yes) Describe Change in Condition, Cause of Change, Potential for Future Change	Work Order Required (Yes/No)	If (Yes) Work Order (#)
			Asbestos Free		
			S. Jeffcoat W. McKnight		

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

RESPONSIBILITY MATRIX

Updated: June 18, 2021

Dallas ISD Organization	Dallas ISD Dept/Div/ Group	Building System	Description: Equipment & Devices	Equipment & Devices:	Pathways, Cable Trays, Conduit, Backboxes, etal:	Equipment & Devices:	Pathways, Cable Trays, Conduit, Backboxes, etal:	Power:
				Designed & Documented for Construction by	Designed & Documented for Construction by	Provided and installed by	Provided and installed by	Provided and installed by
M&O	Grounds	Marquee Sign	Marquee Sign	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	EMS/Controls	BAS	JACE: Equipment, Cabling, Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Elevators	Elevators	Wireless Emergency Call-Out	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Elevators	Elevators	Sump High Float Local Alarm	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Alarms	Fire (Sprinkler) Suppression	Flow Detection	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Alarms	Fire Alarm	Fire Alarm Wireless Radio (AES) Call-out, Panels, Cabling, Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	E-Rate	Technology Infrastructure	A/E IT-Consultant	A/E	IT-Infrastructur e PM	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Fiber Optic	Fiber Optic Cable from street to MDF UPN	IT - Fiber Contractor	A/E (including civil pads, vaults)	IT - Fiber Contractor	CS-General Contractor (including civil pads, vaults)	N/A
IT	Infrastructure	Network	Fiber Optic Cabling - Dark Fiber	IT - Fiber Contractor	A/E (including civil pads, vaults)	IT - Fiber Contractor	CS-General Contractor (including civil pads, vaults)	N/A
IT	Infrastructure	Network	Fiber Optic Backbone Cabling: MDF to IDFs	IT - Cabling Contractor	A/E		CS-General Contractor	N/A
IT	Infrastructure	Infrastructure	Fiber Optic Patch Panels, Jumpers, et al	IT - Cabling Contractor	N/A	IT - Cabling Contractor	N/A	N/A
IT/Police	CSS EM	Access Control	MDF & IDF Room Security	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	MDF/IDF: High Heat Alarm Signal	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/M&O	Infrastructure Electrical	Network	MDF/IDF: Lightning Protection System and Event Alert	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Network	Portables	A/E	A/E	CS-General Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	UPS	A/E	A/E	IT-Network Equipment Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Network	Wireless Access Points (WAPs)	A/E IT-Consultant1	A/E	IT-Network Equipment Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	Cabling	A/E IT-Consultant1	A/E	IT - Cabling Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	Patch Panels	A/E IT-Consultant1	N/A	IT - Cabling Contractor	N/A	N/A
IT	Infrastructure	Network	Racks (Floor Mounted)	A/E	N/A	CS-General Contractor	N/A	CS-General Contractor
IT	Infrastructure	Network	Racks (Wall Mounted)	A/E	N/A	CS-General Contractor	N/A	CS-General Contractor
IT	Infrastructure	Network	Patch Cables	A/E IT-Consultant1	N/A	IT - Technology Contractor	N/A	N/A
IT	Infrastructure	Network	Biometric Clocks (Bioclocks)	A/E	A/E	Cabling by IT-Cabling Contractor. Device provided by CS-GC purchased from IT- Biometric Clock Vendor	CS-General Contractor	POE by IT-Cabling Contractor. Does not require line voltage power.
IT	Infrastructure	Network	POE Switch Network	IT-Network Equipment Contractor	N/A	IT-Network Equipment Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	PA IP Integrated Electronic Communicati ons Network	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Network	Master Clock	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	VoIP	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	POE Switches PA/Sound	A/E	N/A	CS-General ontractor	N/A	CS-General Contractor
M&O	Sound Stage	Voice Communications	Patch Cables PA/Sound	A/E	N/A	CS-General Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	Patch Panels Sound System	A/E	N/A	CS-General Contractor	N/A	N/A
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Interactive Displays	IT A/V Vendor	A/E	IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditoriums: Sound System	A/E Theatre Consultant	A/E	CS-General Contractor purchased from IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditorium: Video Projector and Screen	A/E Theatre Consultant	A/E	CS-General Contractor purchased from IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Multi-Purpose Rooms: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Audio-Visual	Cafetoriums: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Audio-Visual	Cafetorium: Video Projector and Screen	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Distributed Audio-Video Communications Systems	Gymnasium: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor

RESPONSIBILITY MATRIX

Updated: June 18, 2021

Dallas ISD Organization	Dallas ISD Dept/Div/ Group	Building System	Description: Equipment & Devices	Equipment & Devices:	Pathways, Cable Trays, Conduit, Backboxes, etal:	Equipment & Devices:	Pathways, Cable Trays, Conduit, Backboxes, etal:	Power:
				Designed & Documented for Construction by	Designed & Documented for Construction by	Provided and installed by	Provided and installed by	Provided and installed by
IT	Infrastructure	Food and Child Nutrition Services	Cafeteria Point of Sale (POS)	FCNS Contractor	A/E	FCNS Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Food and Child Nutrition Services	Cafeteria Digital Displays	A/E IT-Consultant & A/E	A/E	Display: CS-General Contractor Cabling: IT-Technology Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Network	Patch Panels Security	CSS - Security Contractor	N/A	CSS - Security Contractor	N/A	N/A
IT/Police	CSS/EM	Network	POE Switches Security Devices	CSS - Security Contractor	N/A	CSS - Security Contractor	N/A	CS-General Contractor
M&O	Alarms	Intrusion Detection System	Intrusion Wireless Call-Out, Panels, Keypads, Cabling, Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Storm Shelter Operations	Control Room: Panels, monitoring and operational controls, devices, and signage	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police M&F	CSS/EM Electrical	UPS (Non-Network)	Storm Shelter Power and Monitoring: Generator or Battery	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Secure Vestibule	See "Access Control", Div 28	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Access Control	Card Access/CCTV Headend Licensing	CSS - Security Contractor	N/A	CSS - Security Contractor	N/A	N/A
IT/Police	CSS/EM	Access Control	Control Panels	CSS - Security Contractor	N/A	CSS - Security Contractor	N/A	CS-General Contractor
IT/Police	CSS/EM	Access Control	Card Readers	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT/Police	CSS/EM	Access Control	Door Contacts	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardware	A/E	A/E	CS-General Contractor	CS-General Contractor	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardware Power Supplies	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Access Control	IP Intercoms: Masters	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Exterior	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Interior	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	N/A
IT/SPED	CSS	Safety & Security	SPED Monitoring System Cameras and Recording	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Security: Electronic Surveillance	Cabling: Switch to Device	CSS - Security Contractor	A/E	CSS - Security Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Security: Electronic Surveillance	Storage Servers	CSS - Security Contractor	N/A	CSS - Security Contractor	N/A	CS-General Contractor

ARCHITECT OF RECORD

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DALLAS, TEXAS 75202
VOICE - 214.625.2622
TBAE BUSINESS REGISTRATION # 3631

ASSOCIATE ARCHITECT

5GSTUDIO COLLABORATIVE

1217 MAIN ST #500, DALLAS, TX 75202
PHONE - 214.670.0050

CONSULTANT

SEAL

BRIAN CONRAD
REGISTERED ARCHITECT
75159
STATE OF TEXAS

4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE

RESPONSIBILITY MATRIX

SHEET NUMBER

GS105

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

HAZARDOUS MATERIALS NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ASBESTOS ABATEMENT SERVICES AS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR MUST BE LICENSED BY THE STATE OF TEXAS FOR THE REMOVAL AND DISPOSAL OF ASBESTOS. THE OWNER WILL NOT SUPPLY AN ASBESTOS ABATEMENT CONTRACTOR
2. A SURVEY OF HAZARDOUS MATERIALS HAS BEEN CONDUCTED BY OTHERS AND A REPORT ON THE FINDINGS AND LOCATIONS OF HAZARDOUS MATERIAL IN INCLUDED IN THE SPECIFICATIONS; CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK TO COMPLY WITH HAZMAT SPECIFICATIONS REGARDING RENOVATIONS AND APPLICATION OF MATERIALS TO REMAINING HAZARDOUS MATERIALS AFTER INITIAL REMEDIATION BY OTHERS.
3. CONTRACTOR TO REVIEW THE HAZMAT REPORT IN THE SPECIFICATIONS AND PERFORM RENOVATION WORK AT HMS LOCATIONS DESCRIBED IN THIS REPORT; RENOVATION WORK SHALL PROCEED IN ACCORDING AND IN COMPLIANCE WITH HAZMAT RECOMMENDATIONS.
4. HAZMAT CONTRACTOR WILL REMOVE CEILINGS,FLOORS AND FIXTURES AS DESCRIBED IN REPORT. WALLS SPECIFIED TO REMAIN AFTER REMEDIATION SHALL REMAIN HAZARDOUS AND SHALL NOT BE DISTURBED DURING THE DEMOLITION PROCEDURES OF THIS CONTRACTOR. TYPICAL INTERIOR PLASTER PARTITIONS THROUGHOUT THIS SCHOOL SHALL REMAIN INTACT AFTER REMEDIATION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING PARTITIONS AS DESCRIBED IN DETAIL WALL SECTIONS OF THE BASE BID DRAWINGS.

GENERAL NOTES TO CONTRACTOR

1. CONTRACTOR SHALL REVIEW AND FAMILIARIZE WITH ALL CONDITIONS OF THE PHYSICAL ELEMENTS OF THIS PROJECT TO CONFIRM THE FEASIBILITY OF THE SCOPE OF WORK AS DESCRIBED IN THESE DRAWINGS AND ISSUED FOR CONSTRUCTION.
2. THE SCOPE OF WORK TO RENOVATE EXISTING CONDITIONS OF THE SITE AND BUILDING AS DESIGNED BY RGM ARCHITECTS IN THIS SET OF DRAWINGS SHALL BE FIELD SURVEYED AND CONFIRMED BY THE CONTRACTOR PROPOSING TO DO THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL PHYSICAL CONDITIONS, INTERIOR AND EXTERIOR PRIOR TO DOING THE WORK TO CONFIRM THAT THE DESIGN AS PRESENTED IN THESE DRAWINGS IS A TRUE, ACCURATE AND CORRECT DESCRIPTION OF EXISTING CONDITIONS. VERIFICATION OF EXISTING CONDITIONS TO ASSURE COMPLIANCE WITH THE SCOPE OF WORK AS PRESENTED IN THIS DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PROPOSING TO DO THE WORK.
4. THE CONTRACTOR MUST VERIFY THAT ALL MEASUREMENTS AS DEPICTED BY ARCHITECT IN THESE DRAWINGS ARE SUFFICIENTLY ACCURATE AND TO A REASONABLE EXTENT THAT WILL ALLOW RENOVATION OF THE SCOPE OF WORK AS INTENDED BY THESE DRAWINGS.

CONTRACTOR RENOVATION NOTES

1. SITEWORK AND BUILDING RENOVATIONS WILL REQUIRE REMOVAL OF EXISTING MATERIALS AND INSTALLATION OF NEW AS DESIGNED BY THESE DRAWINGS. THE WORK OF THE TRADES TO PERFORM RENOVATIONS AS DESIGNED WILL REQUIRE THE CONTRACTOR'S COORDINATION OF THE WORKMANSHIP TO AVOID CONFLICTS IN THE FINISHED WORK OF THE TRADES. THE RESOLUTION OF CONFLICTS IN THE OVERLAPPING CONDITIONS OF THE FINISH WORK SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, REPAIRING, AND RESTORING TO A NEW APPEARANCE ALL EXISTING AND EXPOSED SITE AND BUILDING MATERIALS AND SURFACES THAT ARE BROKEN, MISSING OR IN DISREPAIR WITHIN THE AREA OF RENOVATION. ALL MATERIALS AND SURFACES WITHIN THE AREA OF RENOVATION SHALL BE NEW IN APPEARANCE.
3. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL MATERIALS, AND FINISHES TO ACCOMPLISH THE RENOVATION SCOPE OF WORK. ANY MATERIALS AND FINISHES REMOVED BEYOND THE SCOPE OF WORK AND NOT SCHEDULED FOR RENOVATION SHALL BE REPLACED AND RESTORED BY CONTRACTOR PRIOR TO STARTUP OF RENOVATION PROCEDURES.
4. THE CONTRACTOR TO REVIEW ALL ABOVE-CEILING CONDITIONS AND VERIFY THAT STRUCTURAL CLEARANCES AS INDICATED ON DRAWINGS FOR LIGHTING, HVAC EQUIP AND DUCTWORK ARE ADEQUATE AND FEASIBLE. ANY CONDITION ABOVE CEILING NOT SUITABLE FOR INSTALLATION OF THE WORK SHALL BE COORDINATED WITH ARCHITECT FOR PROPER ALTERNATIVE RESOLUTIONS BEFORE BEGINNING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE AIR TIGHT AIR PLENUM ENCLOSURE FOR THE FAN-COIL UNIT IN CLASSROOMS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE MAINTAINING STABILITY OF THE INTERIOR PARTITIONS AFTER HAZMAT PROCEDURES HAVE TAKEN PLACE. REFER TO WALL STABILIZATION DETAIL.
6. CONTRACTOR SHALL REFER TO PHASING PLAN FOR SCHEDULE OF WORK.
7. CONTRACTOR MUST TEST PA, FA, IT, SECURITY, AND OTHER RELEVANT SYSTEMS PRIOR TO ANY DEMOLITION WORK. IF ANY OF THE SAID SYSTEMS ARE NOT WORKING, BRING IT TO THE ATTENTION OF THE PM. ANY SYSTEM FOUND TO BE NOT WORKING AFTER THE START OF THE DEMOLITION WORK WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AT NO COST TO OWNER.
8. CONTRACTOR SCOPE TO INCLUDE PRESSURE CLEANING ALL EXISTING DRAINS, MAKING REPAIRS AS NECESSARY, AND ENSURING EXISTING LINES ARE CLEAR BEFORE CONNECTING NEW ROOF DRAINS WITH THE EXISTING ROOF DRAINS.

MOVING OF FURNITURE AND EQUIPMENT

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MOVING ALL FURNITURE OUT OF THE WORK AREAS BEFORE THE COMMENCEMENT OF WORK. THE FURNITURE SHALL BE STORED IN A TEMPORARY LOCATION UNTIL THE WORK IS COMPLETED. AFTER THE WORK IS FINISHED, THE GENERAL CONTRACTOR SHALL MOVE ALL FURNITURE AND EQUIPMENT BACK INTO THE SPACES. THE OWNER WILL NOT PROVIDE MOVERS OR BOXES FOR THIS TASK.

KEYED NOTES

01 REMOVE ALL THE EXISTING CLOCKS, PATCH WALLS TO MATCH ADJACENT MATERIAL, AND FINISHES. CONTRACTOR TO INSTALL NEW DIGITAL/SPEAKER COMBO CLOCKS. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

02 REMOVE THE TYPICAL CEILING MOUNTED PA SPEAKER. CONTRACTOR TO PROVIDE NEW CEILING TILE AFTER REMOVAL, TYPICAL.

03 REMOVE THE EXISTING FIRE ALARM DEVICES. CONTRACTOR REPAIR WALLS, MATCH ADJACENT FINISHES, REPLACE CEILING TILES WITH NEW TILE. CONTRACTOR TO COORDINATE LIFE SAFETY DESIGNER FOR NEW DEVICES VIA SEPARATE PERMIT.

04 REMOVE EXISTING FREESTANDING BRICK, CMU, AND CAST STONE WALL PARTITIONS, INCLUDING ALL ASSOCIATED ANCHORAGE TO THE EXISTING BUILDING. UPON REMOVAL OF THE STRUCTURAL SUPPORTS, REPAIR THE METAL PANEL SYSTEM TO MATCH ADJACENT MATERIALS AND FINISHES. WHERE COLUMNS HAVE BEEN REMOVED, REPLACE SIDEWALK PANELS TO MATCH THE EXISTING THICKNESS AND SLOPE, TYPICAL.

05 REMOVE THE EXISTING MILLWORK. REPAIR, PATCH, MATCH ADJACENT MATERIALS, TEXTURE, PRIME AND PAINT.

06 REMOVE THE EXISTING FLOORING AND BASE. CONTRACTOR TO GRIND DOWN SMOOTH TO CONCRETE, REPAIR, PATCH, AND PROVIDE SELF LEVELING COMPOUND TO RECEIVE NEW FLOOR SYSTEM AS SCHEDULED.

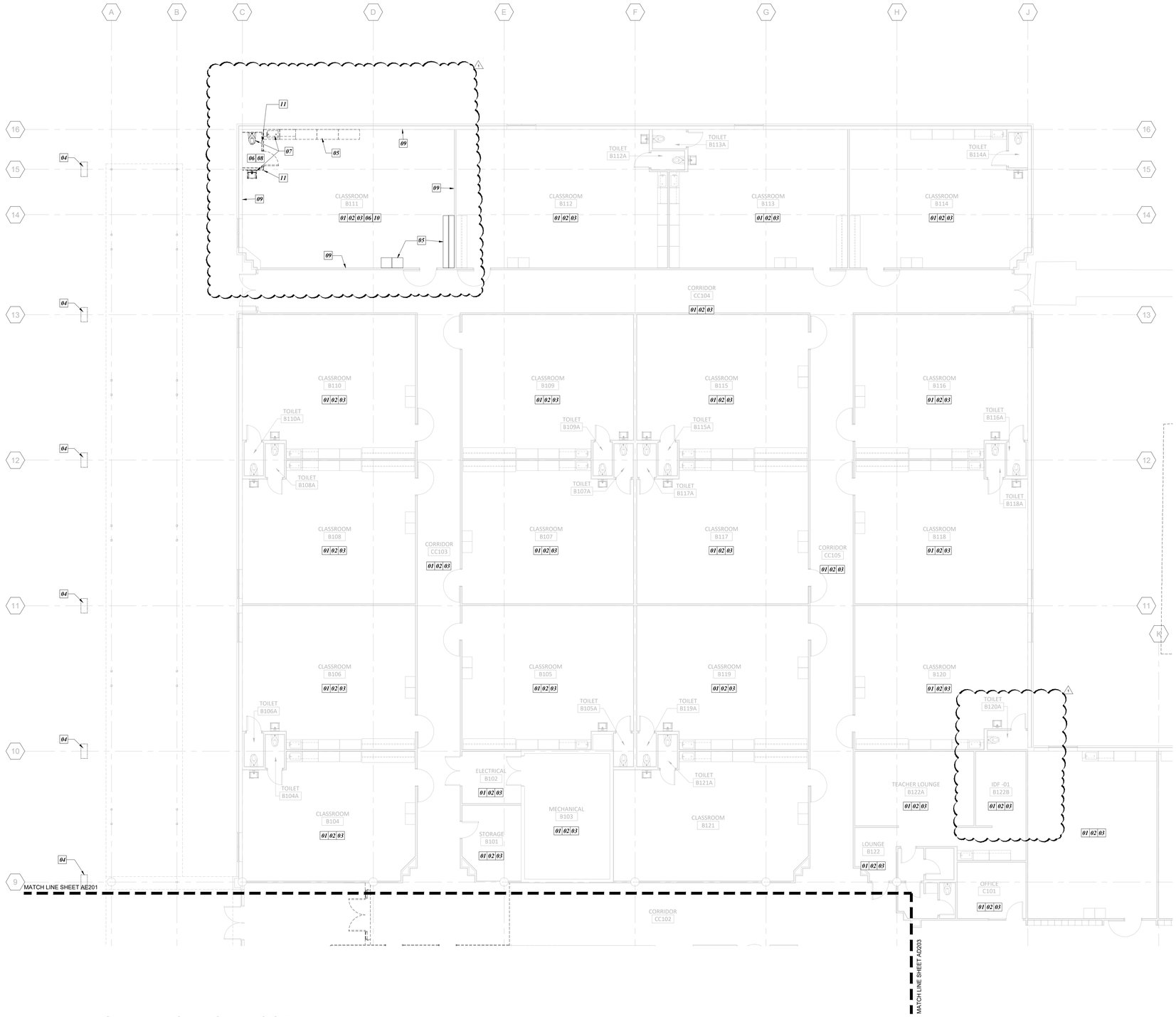
07 CONTRACTOR TO REMOVE PLUMBING FIXTURES, DISCONNECT WATER AND SANITARY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

08 CONTRACTOR TO REMOVE TOILET ACCESSORIES

09 EXISTING WALL TO BE PRIME AND PAINTED TYPICAL.

10 CONTRACTOR TO REMOVE, CLEAN, AND PAINT EXISTING DIFFUSERS, TYPICAL.

11 REMOVE THE EXISTING WALL PARTITION.



01 PARTIAL ENLARGED DEMOLITION FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

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4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION
304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED
APRIL 5, 2026

REVISIONS

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1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE
PARTIAL ENLARGED DEMOLITION FLOOR PLAN - AREA B

SHEET NUMBER
AD202

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

HAZARDOUS MATERIALS NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ASBESTOS ABATEMENT SERVICES AS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR MUST BE LICENSED BY THE STATE OF TEXAS FOR THE REMOVAL AND DISPOSAL OF ASBESTOS. THE OWNER WILL NOT SUPPLY AN ASBESTOS ABATEMENT CONTRACTOR
2. A SURVEY OF HAZARDOUS MATERIALS HAS BEEN CONDUCTED BY OTHERS AND A REPORT ON THE FINDINGS AND LOCATIONS OF HAZARDOUS MATERIAL IN INCLUDED IN THE SPECIFICATIONS; CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK TO COMPLY WITH HAZMAT SPECIFICATIONS REGARDING RENOVATIONS AND APPLICATION OF MATERIALS TO REMAINING HAZARDOUS MATERIALS AFTER INITIAL REMEDIATION BY OTHERS.
3. CONTRACTOR TO REVIEW THE HAZMAT REPORT IN THE SPECIFICATIONS AND PERFORM RENOVATION WORK AT HMS LOCATIONS DESCRIBED IN THIS REPORT; RENOVATION WORK SHALL PROCEED IN ACCORDING AND IN COMPLIANCE WITH HAZMAT RECOMMENDATIONS.
4. HAZMAT CONTRACTOR WILL REMOVE CEILINGS,FLOORS AND FIXTURES AS DESCRIBED IN REPORT. WALLS SPECIFIED TO REMAIN AFTER REMEDIATION SHALL REMAIN HAZARDOUS AND SHALL NOT BE DISTURBED DURING THE DEMOLITION PROCEDURES OF THIS CONTRACTOR, TYPICAL INTERIOR PLASTER PARTITIONS THROUGHOUT THIS SCHOOL SHALL REMAIN INTACT AFTER REMEDIATION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING PARTITIONS AS DESCRIBED IN DETAIL WALL SECTIONS OF THE BASE BID DRAWINGS.

GENERAL NOTES TO CONTRACTOR

1. CONTRACTOR SHALL REVIEW AND FAMILIARIZE WITH ALL CONDITIONS OF THE PHYSICAL ELEMENTS OF THIS PROJECT TO CONFIRM THE FEASIBILITY OF THE SCOPE OF WORK AS DESCRIBED IN THESE DRAWINGS AND ISSUED FOR CONSTRUCTION.
2. THE SCOPE OF WORK TO RENOVATE EXISTING CONDITIONS OF THE SITE AND BUILDING AS DESIGNED BY RGM ARCHITECTS IN THIS SET OF DRAWINGS SHALL BE FIELD SURVEYED AND CONFIRMED BY THE CONTRACTOR PROPOSING TO DO THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL PHYSICAL CONDITIONS, INTERIOR AND EXTERIOR PRIOR TO DOING THE WORK TO CONFIRM THAT THE DESIGN AS PRESENTED IN THESE DRAWINGS IS A TRUE, ACCURATE AND CORRECT DESCRIPTION OF EXISTING CONDITIONS. VERIFICATION OF EXISTING CONDITIONS TO ASSURE COMPLIANCE WITH THE SCOPE OF WORK AS PRESENTED IN THIS DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PROPOSING TO DO THE WORK.
4. THE CONTRACTOR MUST VERIFY THAT ALL MEASUREMENTS AS DEPICTED BY ARCHITECT IN THESE DRAWINGS ARE SUFFICIENTLY ACCURATE AND TO A REASONABLE EXTENT THAT WILL ALLOW RENOVATION OF THE SCOPE OF WORK AS INTENDED BY THESE DRAWINGS.

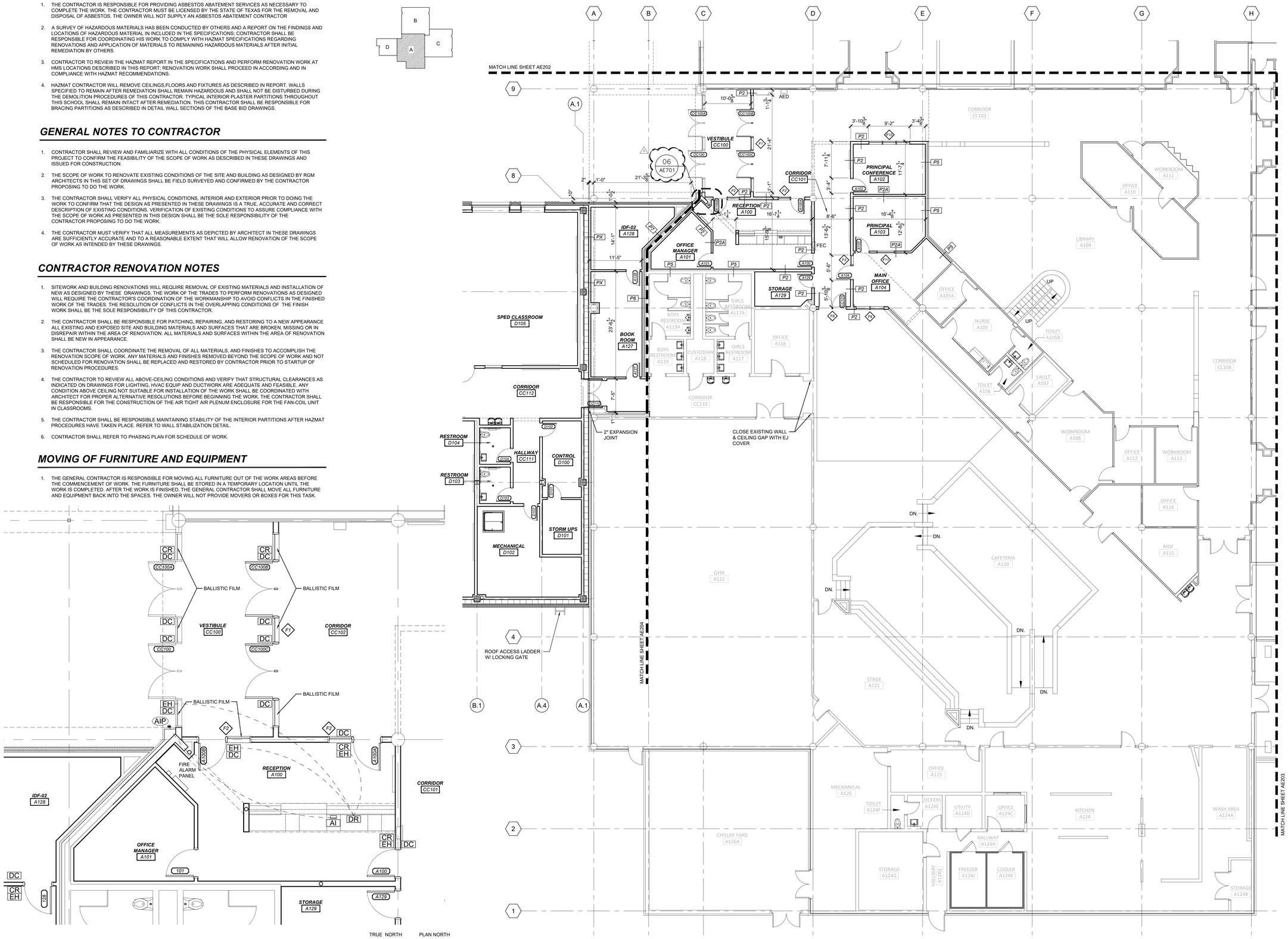
CONTRACTOR RENOVATION NOTES

1. SITEWORK AND BUILDING RENOVATIONS WILL REQUIRE REMOVAL OF EXISTING MATERIALS AND INSTALLATION OF NEW AS DESIGNED BY THESE DRAWINGS. THE WORK OF THE TRADES TO PERFORM RENOVATIONS AS DESIGNED WILL REQUIRE THE CONTRACTOR'S COORDINATION OF THE WORKMANSHIP TO AVOID CONFLICTS IN THE FINISHED WORK OF THE TRADES. THE RESOLUTION OF CONFLICTS IN THE OVERLAPPING CONDITIONS OF THE FINISH WORK SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, REPAIRING, AND RESTORING TO A NEW APPEARANCE ALL EXISTING AND EXPOSED SITE AND BUILDING MATERIALS AND SURFACES THAT ARE BROKEN, MISSING OR IN DISREPAIR WITHIN THE AREA OF RENOVATION. ALL MATERIALS AND SURFACES WITHIN THE AREA OF RENOVATION SHALL BE NEW IN APPEARANCE.
3. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL MATERIALS, AND FINISHES TO ACCOMPLISH THE RENOVATION SCOPE OF WORK. ANY MATERIALS AND FINISHES REMOVED BEYOND THE SCOPE OF WORK AND NOT SCHEDULED FOR RENOVATION SHALL BE REPLACED AND RESTORED BY CONTRACTOR PRIOR TO STARTUP OF RENOVATION PROCEDURES.
4. THE CONTRACTOR TO REVIEW ALL ABOVE-CEILING CONDITIONS AND VERIFY THAT STRUCTURAL CLEARANCES AS INDICATED ON DRAWINGS FOR LIGHTING, HVAC EQUIP AND DUCTWORK ARE ADEQUATE AND FEASIBLE. ANY CONDITION ABOVE CEILING NOT SUITABLE FOR INSTALLATION OF THE WORK SHALL BE COORDINATED WITH ARCHITECT FOR PROPER ALTERNATIVE RESOLUTIONS BEFORE BEGINNING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE AIR TIGHT AIR PLENUM ENCLOSURE FOR THE FAN-COIL UNIT IN CLASSROOMS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE MAINTAINING STABILITY OF THE INTERIOR PARTITIONS AFTER HAZMAT PROCEDURES HAVE TAKEN PLACE. REFER TO WALL STABILIZATION DETAIL.
6. CONTRACTOR SHALL REFER TO PHASING PLAN FOR SCHEDULE OF WORK.

MOVING OF FURNITURE AND EQUIPMENT

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MOVING ALL FURNITURE OUT OF THE WORK AREAS BEFORE THE COMMENCEMENT OF WORK. THE FURNITURE SHALL BE STORED IN A TEMPORARY LOCATION UNTIL THE WORK IS COMPLETED. AFTER THE WORK IS FINISHED, THE GENERAL CONTRACTOR SHALL MOVE ALL FURNITURE AND EQUIPMENT BACK INTO THE SPACES. THE OWNER WILL NOT PROVIDE MOVERS OR BOXES FOR THIS TASK.

KEY PLAN



TRUE NORTH PLAN NORTH

02 SECURE VESTIBULE ACCESS CONTROL
SCALE: 1/4" = 1'-0"

01 PARTIAL ENLARGED FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

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DALLAS ISD 2020 BOND PROGRAM
CSP 250086
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ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED
APRIL 5, 2026

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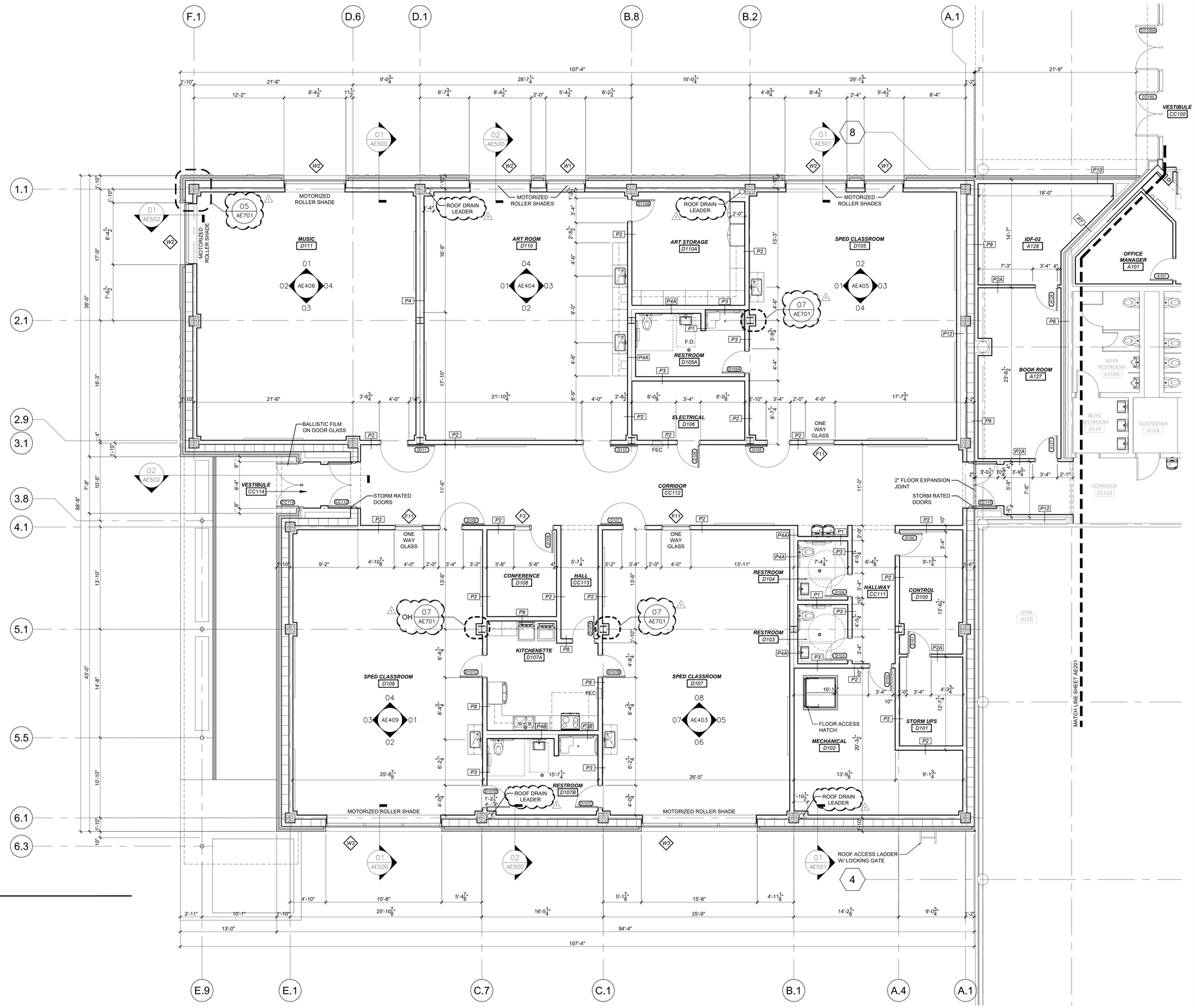
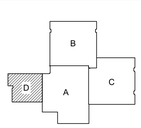
SHEET TITLE
PARTIAL ENLARGED FLOOR PLAN - AREA A

SHEET NUMBER
AE201

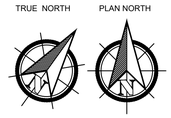
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



KEY PLAN



TRUE NORTH PLAN NORTH



01 PARTIAL ENLARGED FLOOR PLAN - AREA D

SCALE: 3/16" = 1'-0"

ARCHITECT OF RECORD
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304 N KAUFMAN ST, SEAGOVILLE, TX 75159

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SHEET TITLE

PARTIAL ENLARGED FLOOR PLAN - AREA D

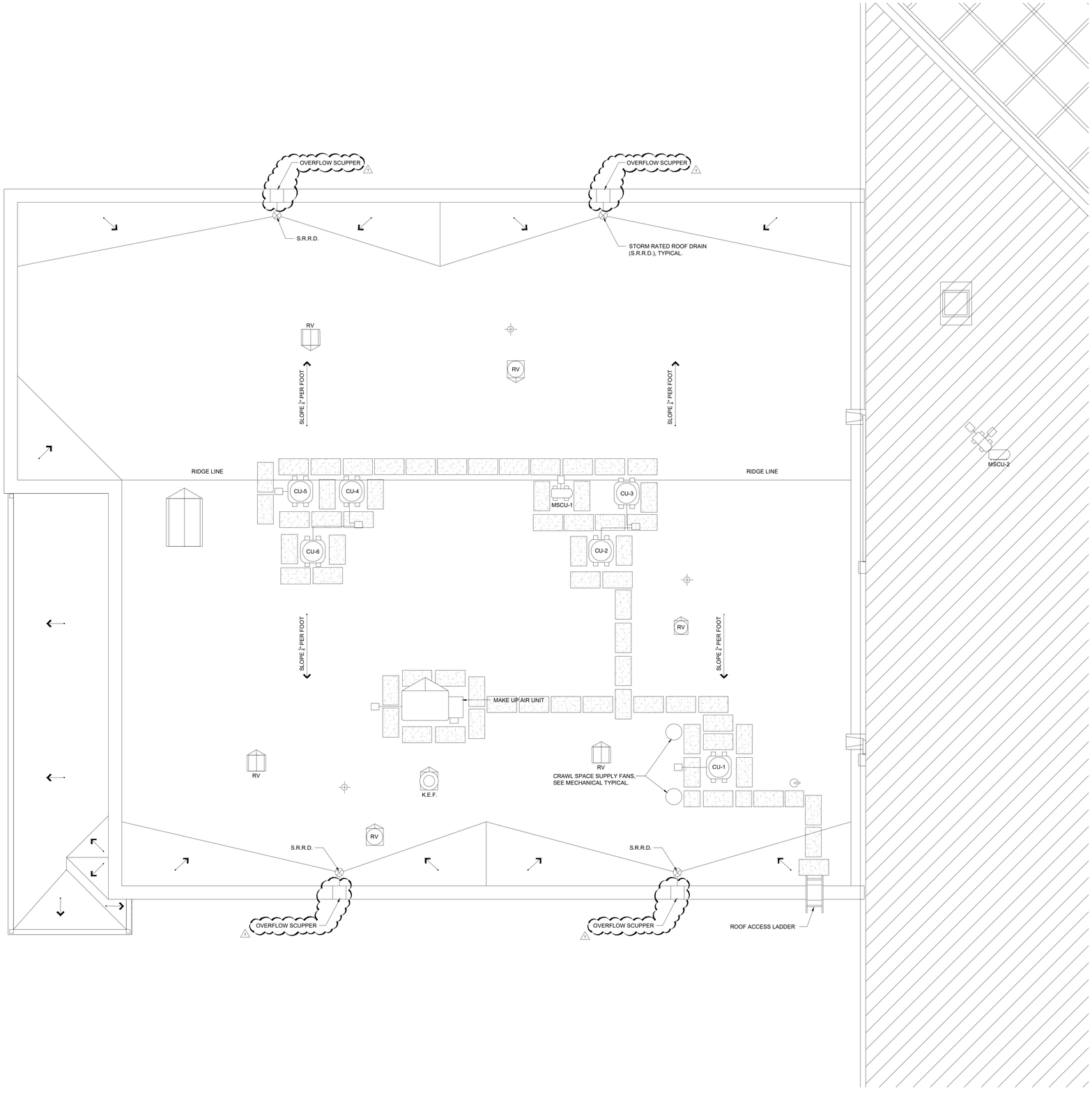
SHEET NUMBER

AE204

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

GENERAL NOTES TO CONTRACTOR

1. CONTRACTOR SHALL REVIEW ALL ROOFING, MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS AND COORDINATE WITH ALL TRADES.
2. CONTRACTOR SHALL REVIEW ALL ROOFING DRAWINGS AND ASSOCIATED DETAILS.
3. CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ANY REQUIRED MODIFICATIONS TO THE EXISTING ROOFING SYSTEM. IF ROOF REPLACEMENT BY A SEPARATE CONTRACTOR HAS COMMENCED, THE CONTRACTOR SHALL NOTIFY ALL PARTIES AND COORDINATE INSTALLATION OF EQUIPMENT ACCORDINGLY.



TRUE NORTH PLAN NORTH

01 **PARTIAL ENLARGED ROOF PLAN - AREA D**

SCALE: 3/16" = 1'-0"

ARCHITECT OF RECORD

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RGM PROJECT # 202506.00

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SHEET TITLE

PARTIAL ENLARGED ROOF PLAN - AREA D

SHEET NUMBER

AE206

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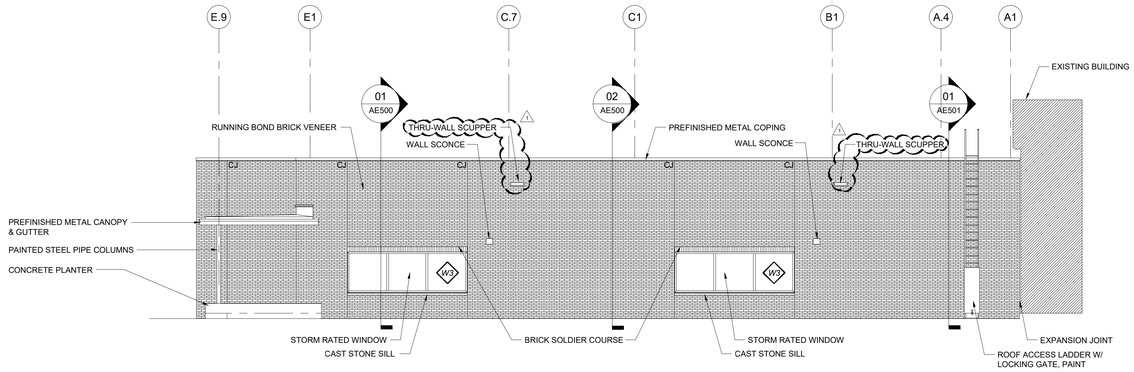
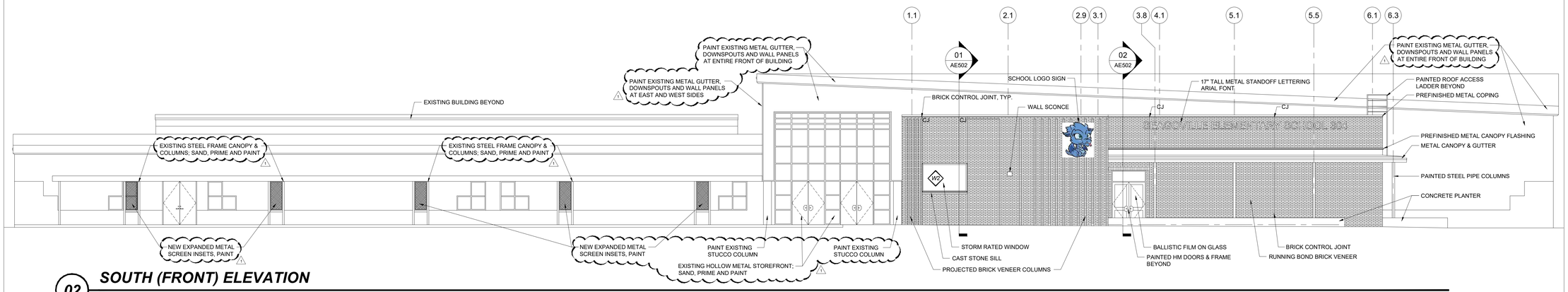


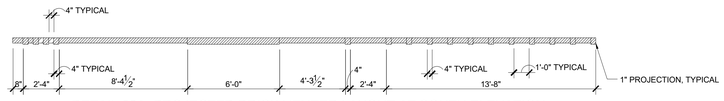
03 WEST ELEVATION

SCALE: 1/8" = 1'-0"

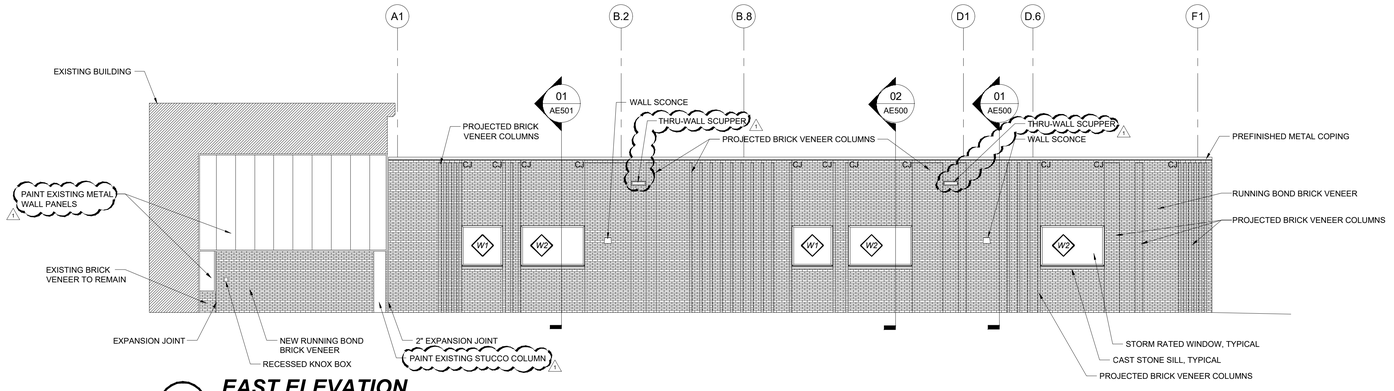


02 SOUTH (FRONT) ELEVATION

SCALE: 1/8" = 1'-0"

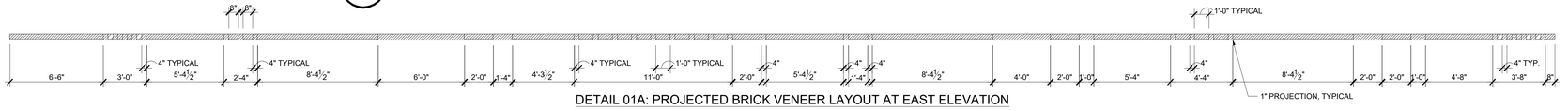


DETAIL 02A: PROJECTED BRICK VENEER LAYOUT AT SOUTH ELEVATION



01 EAST ELEVATION

SCALE: 1/8" = 1'-0"



DETAIL 01A: PROJECTED BRICK VENEER LAYOUT AT EAST ELEVATION

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ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

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DATE ISSUED

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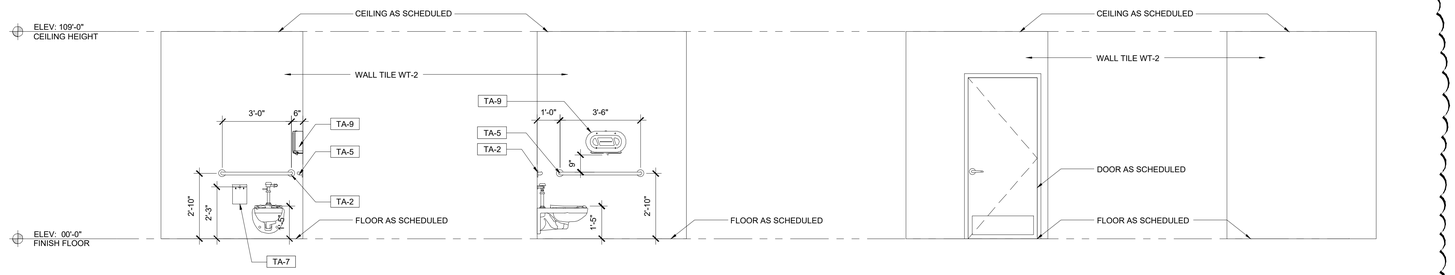
SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

AE300

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

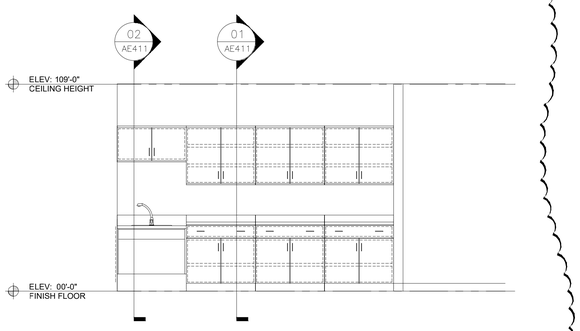


09 INTERIOR ELEVATION
SCALE: 3/8 " = 1'-0"

08 INTERIOR ELEVATION
SCALE: 3/8 " = 1'-0"

07 INTERIOR ELEVATION
SCALE: 3/8 " = 1'-0"

06 INTERIOR ELEVATION
SCALE: 3/8 " = 1'-0"



05 INTERIOR ELEVATION
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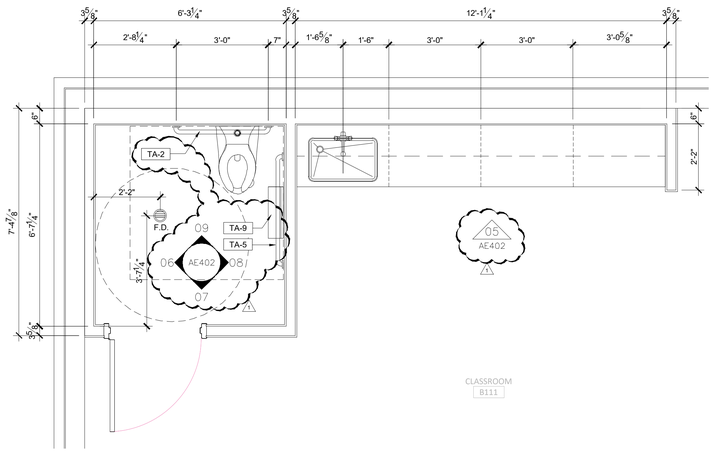
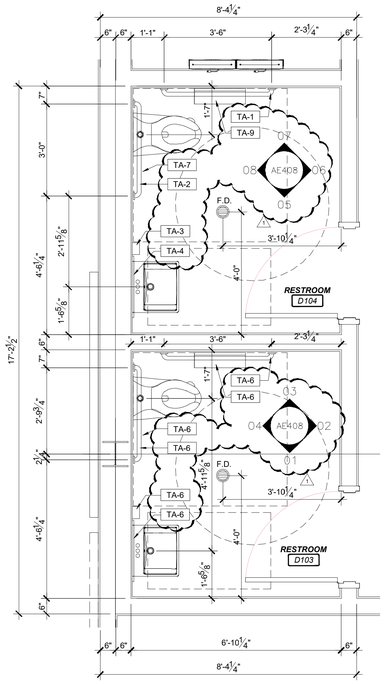
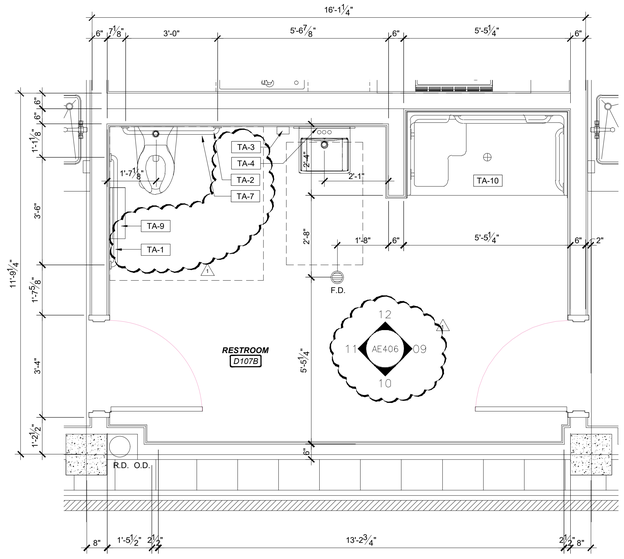


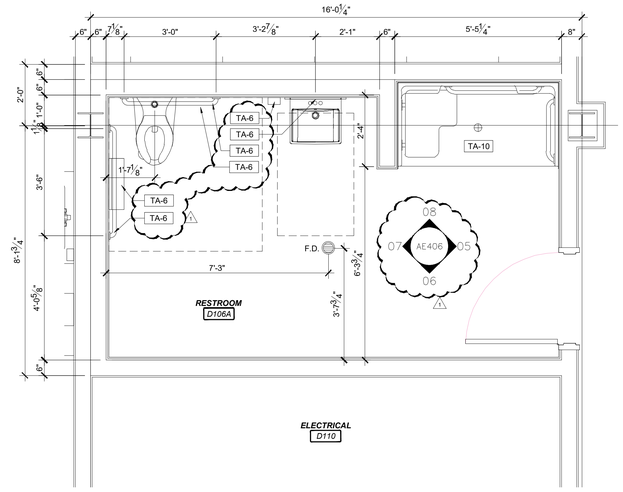
04 PARTIAL ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



03 PARTIAL ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



02 PARTIAL ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



01 PARTIAL ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"

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ADDITION AND RENOVATION

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RGM PROJECT # 202506.00

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SHEET TITLE
PARTIAL ENLARGED FLOOR PLANS

SHEET NUMBER
AE402

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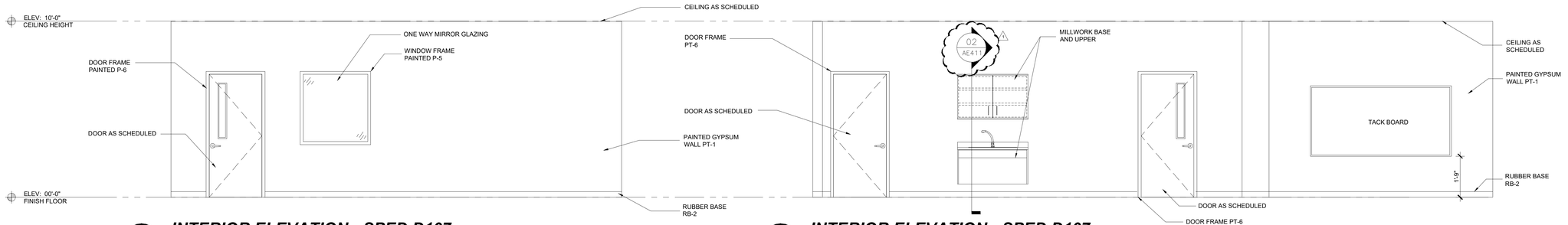
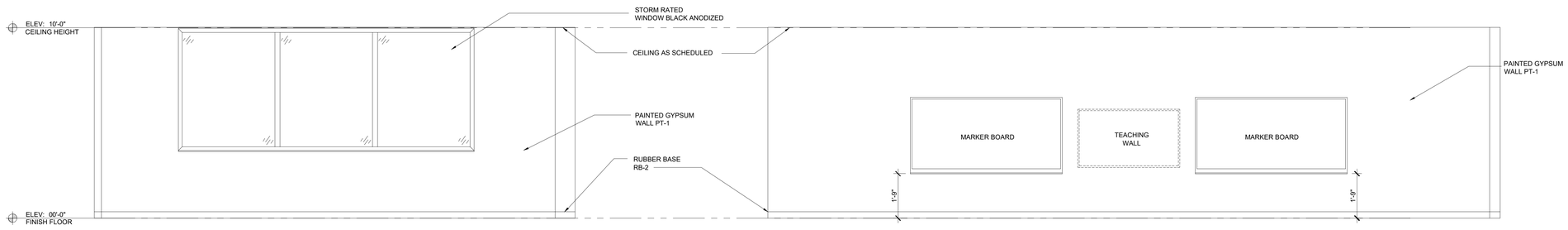


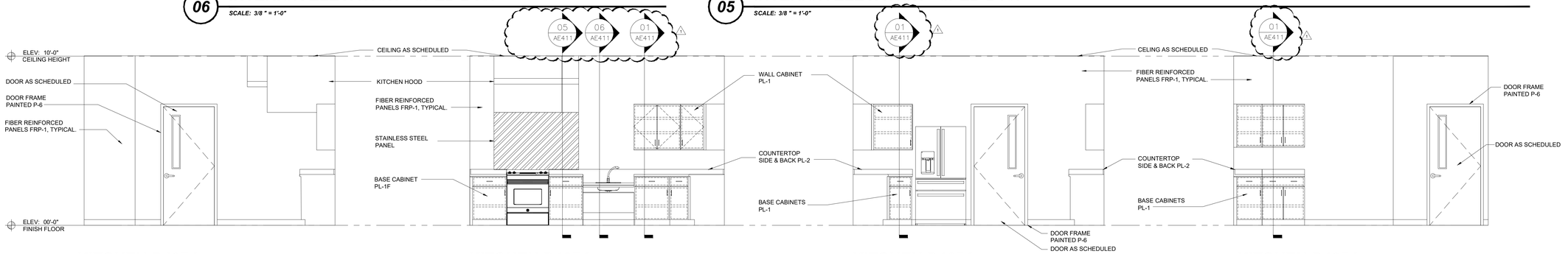
08 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"

07 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"



06 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"

05 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"



04 ***KITCHEN D107A INTERIOR ELEVATION***
SCALE: 3/8" = 1'-0"

03 ***KITCHEN D107A INTERIOR ELEVATION***
SCALE: 3/8" = 1'-0"

02 ***KITCHEN D107A INTERIOR ELEVATION***
SCALE: 3/8" = 1'-0"

01 ***KITCHEN D107A INTERIOR ELEVATION***
SCALE: 3/8" = 1'-0"

ARCHITECT OF RECORD

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4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

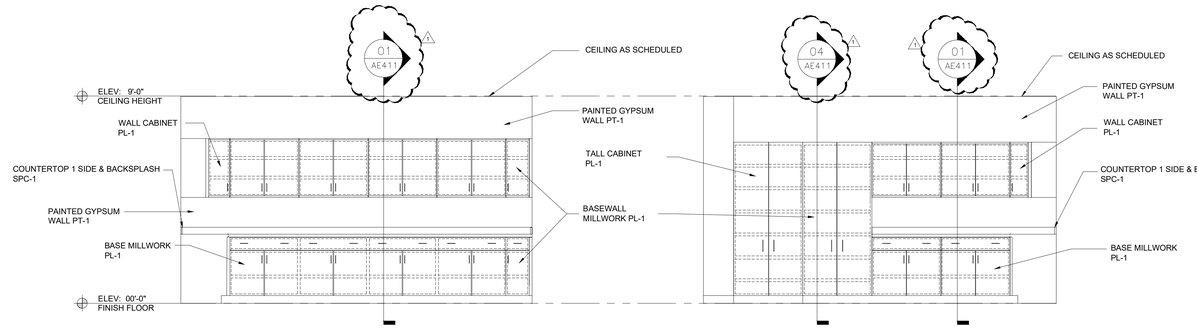
SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

AE403

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

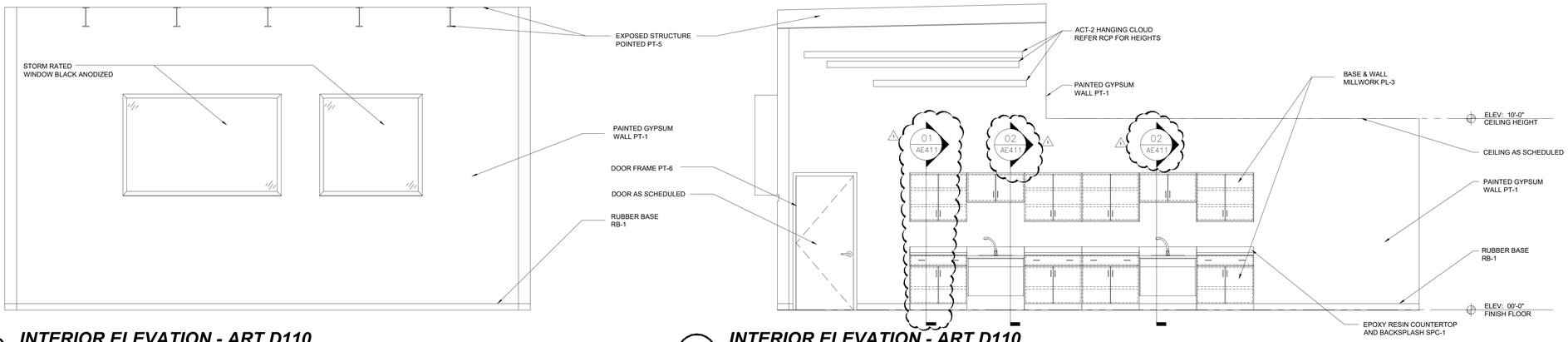


06 ART STORAGE D110A INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

05 ART STORAGE D110A INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

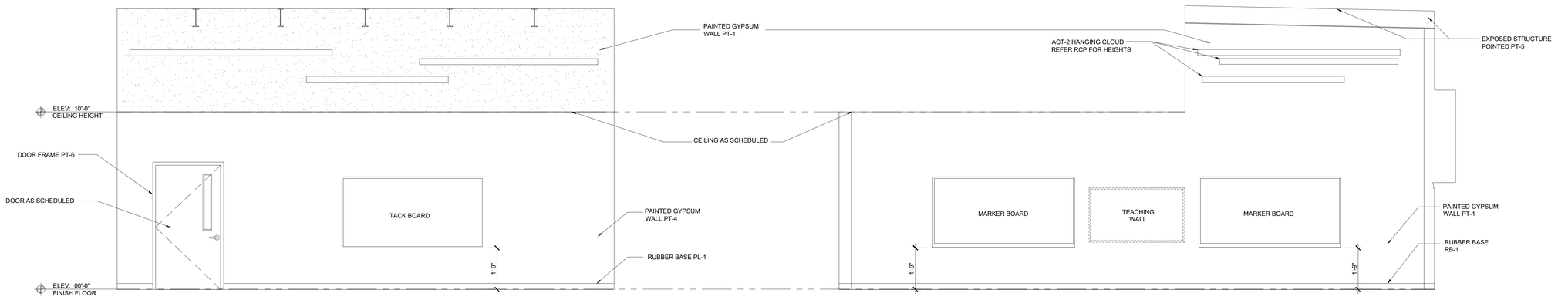


04 INTERIOR ELEVATION - ART D110

SCALE: 3/8" = 1'-0"

03 INTERIOR ELEVATION - ART D110

SCALE: 3/8" = 1'-0"



02 INTERIOR ELEVATION - ART D110

SCALE: 3/8" = 1'-0"

01 INTERIOR ELEVATION - ART D110

SCALE: 3/8" = 1'-0"

ARCHITECT OF RECORD

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304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

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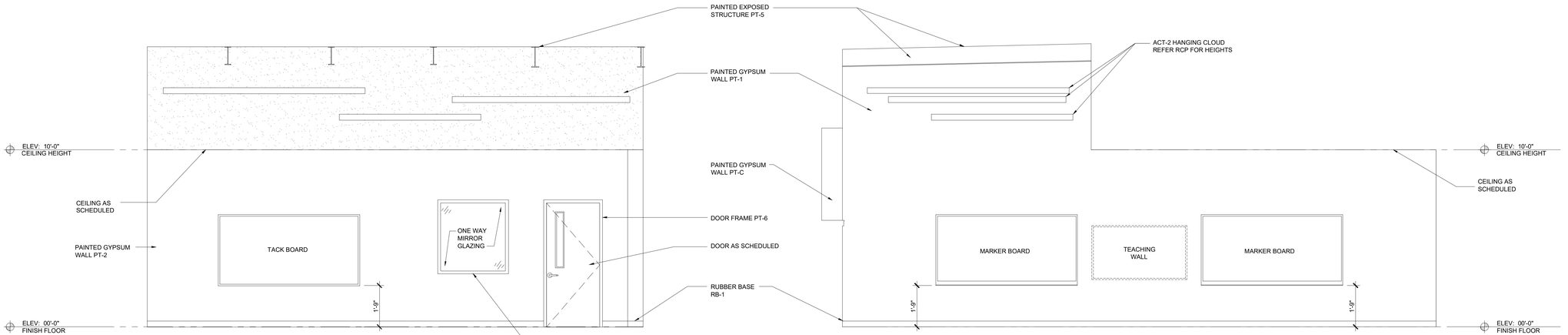
SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

AE404

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

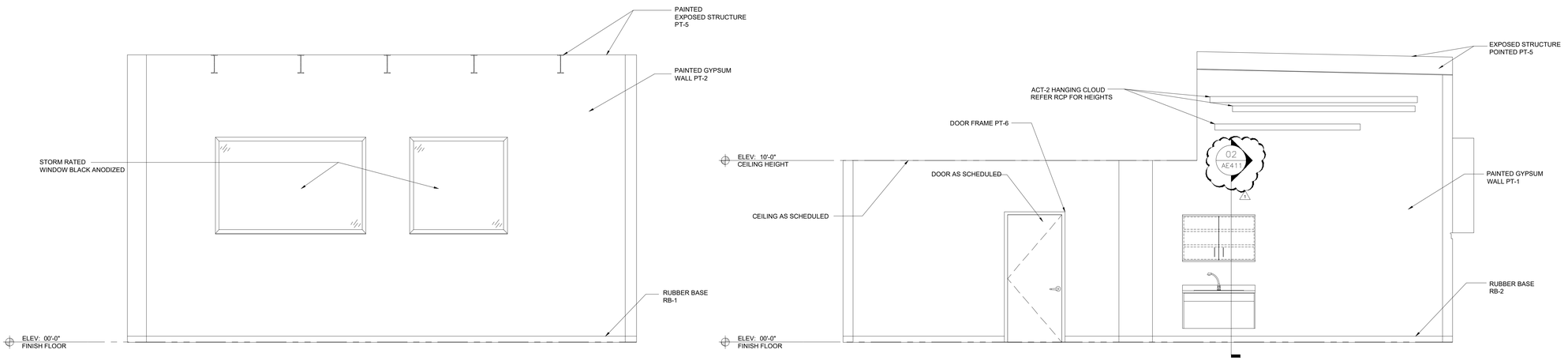


04 INTERIOR ELEVATION - SPED D105

SCALE: 3/8 " = 1'-0"

03 INTERIOR ELEVATION - SPED D105

SCALE: 3/8 " = 1'-0"



02 INTERIOR ELEVATION - SPED D105

SCALE: 3/8 " = 1'-0"

01 INTERIOR ELEVATION - SPED D105

SCALE: 3/8 " = 1'-0"

ARCHITECT OF RECORD

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ORG #208 SEAGOVILLE ELEMENTARY
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304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

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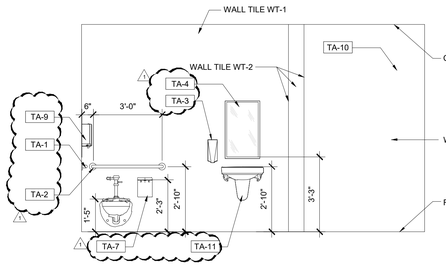
SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

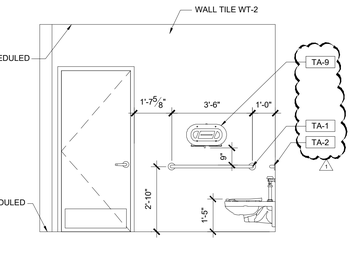
AE405

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



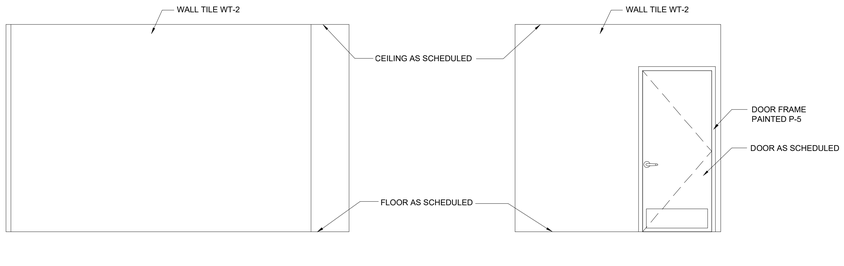
12 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"



11 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"

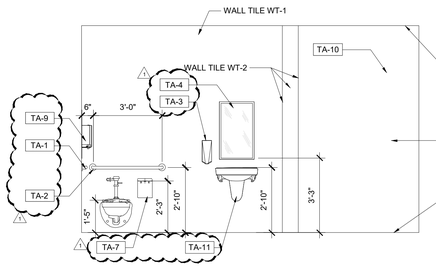


10 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"

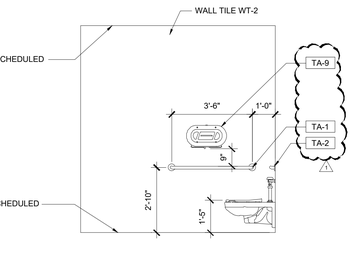
09 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"



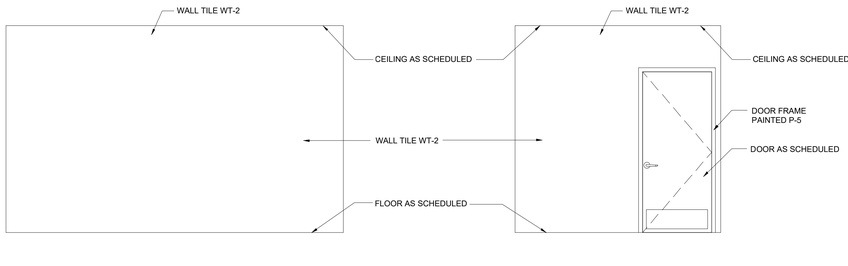
08 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"



07 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"

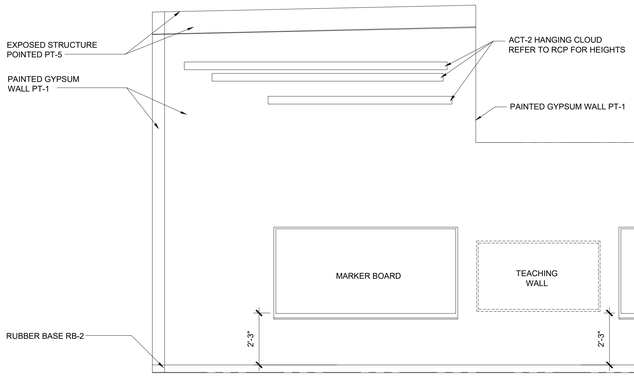


06 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"

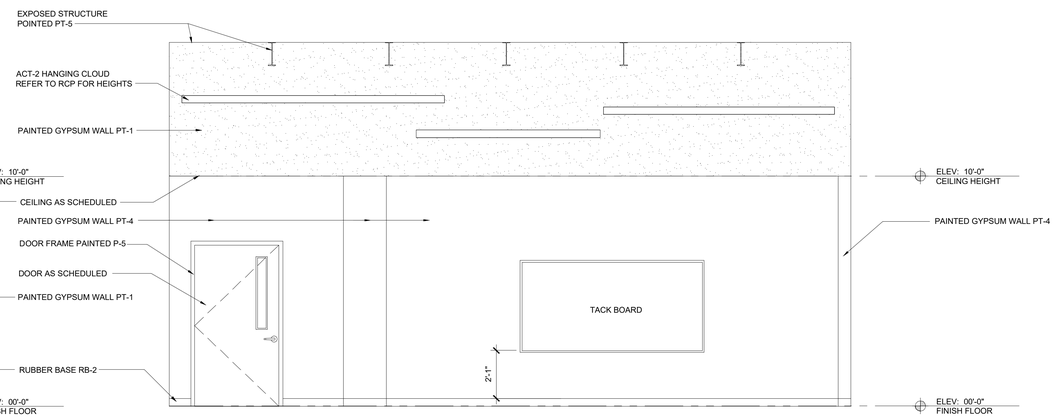
05 INTERIOR ELEVATION

SCALE: 3/8 " = 1'-0"



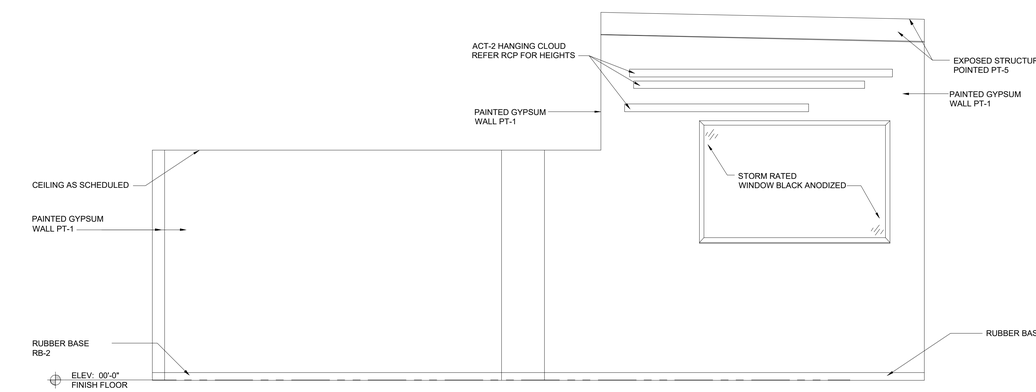
04 INTERIOR ELEVATION - MUSIC D111

SCALE: 3/8 " = 1'-0"



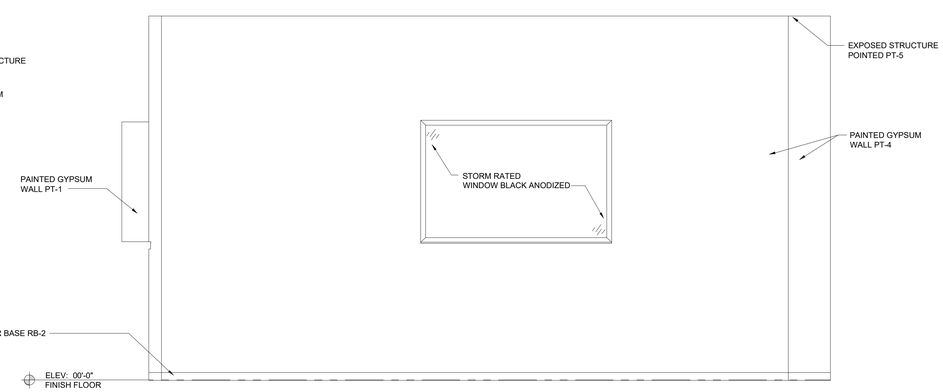
03 INTERIOR ELEVATION - MUSIC D111

SCALE: 3/8 " = 1'-0"



02 INTERIOR ELEVATION - MUSIC D111

SCALE: 3/8 " = 1'-0"



01 INTERIOR ELEVATION - MUSIC D111

SCALE: 3/8 " = 1'-0"

ARCHITECT OF RECORD

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4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS		
No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

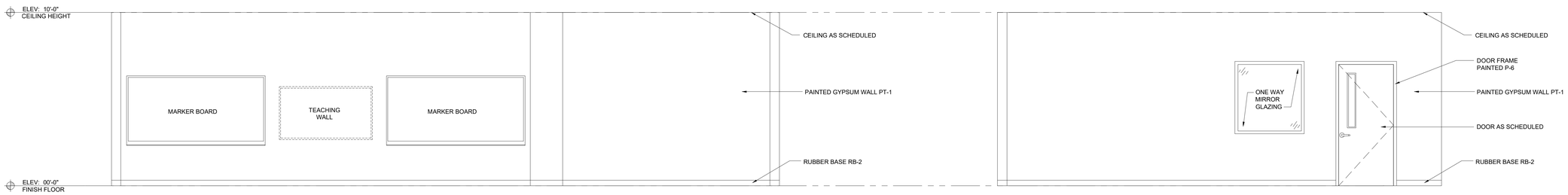
SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

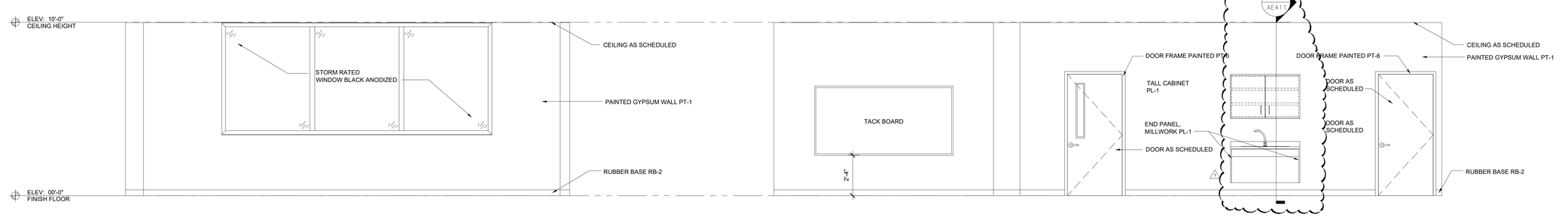
AE406

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



04 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"

03 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"



02 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"

01 ***INTERIOR ELEVATION - SPED D107***
SCALE: 3/8 " = 1'-0"

ARCHITECT OF RECORD

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STATE OF TEXAS

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CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

AE409

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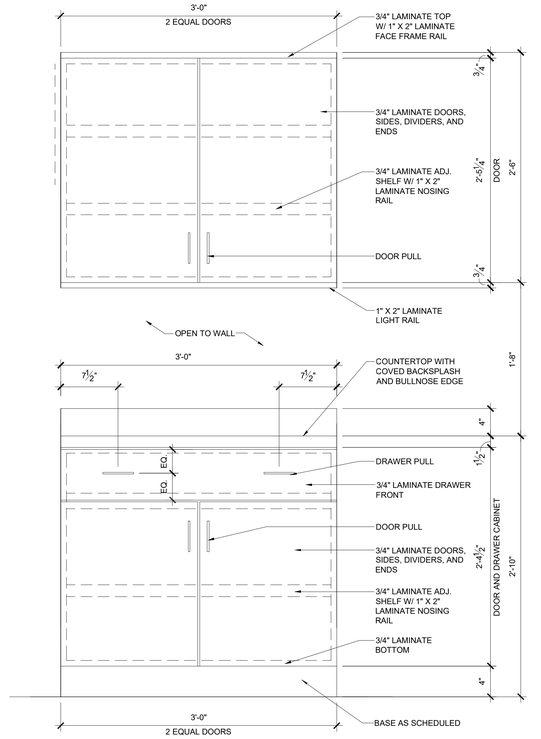
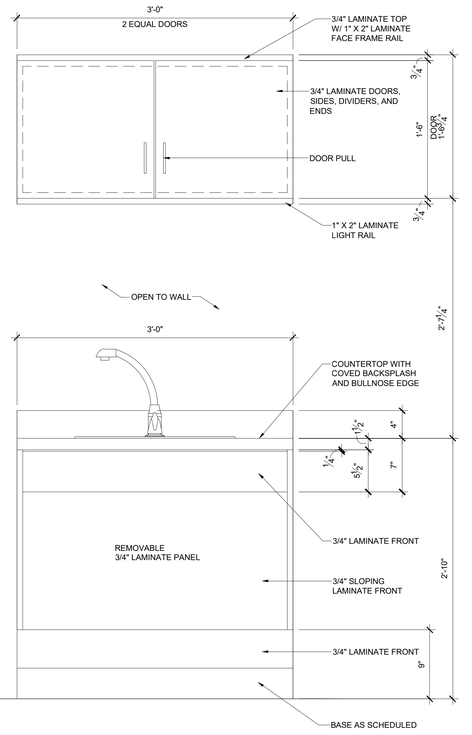


05 MILLWORK ELEVATION - MW-5

SCALE: 1 1/2" = 1'-0"

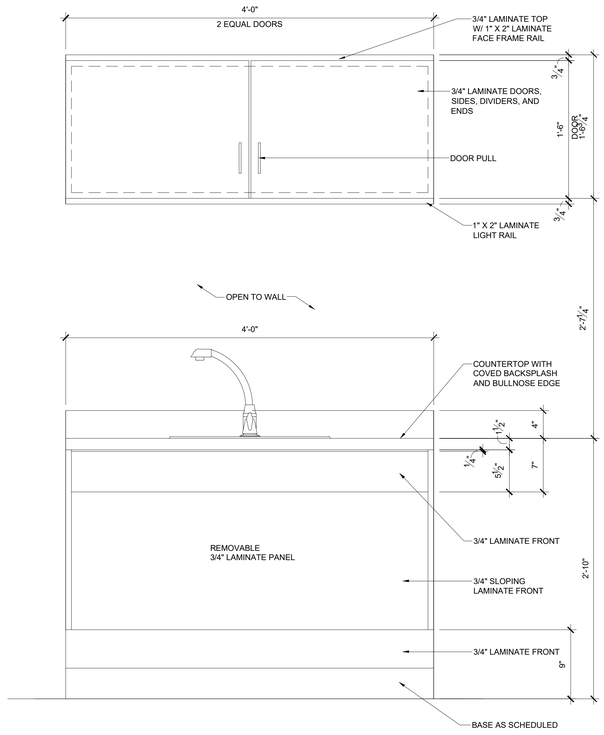
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



04 MILLWORK ELEVATION - MW-4

SCALE: 1 1/2" = 1'-0"

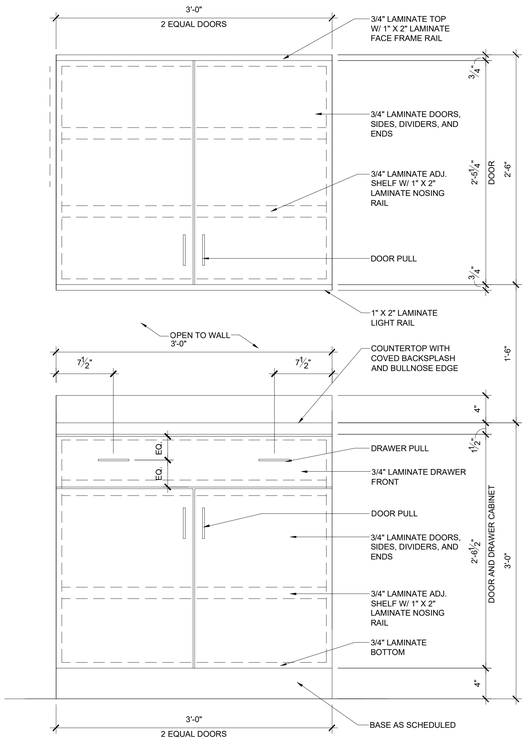
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



03 MILLWORK ELEVATION - MW-3

SCALE: 1 1/2" = 1'-0"

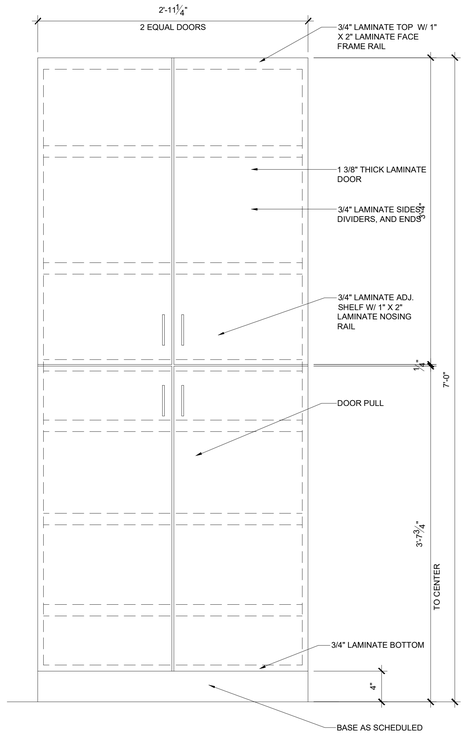
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



02 MILLWORK ELEVATION - MW-2

SCALE: 1 1/2" = 1'-0"

NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



01 MILLWORK ELEVATION - MW-1

SCALE: 1 1/2" = 1'-0"

NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.

ARCHITECT OF RECORD

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ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 22, 2026

REVISIONS

No.	DATE	DESCRIPTION

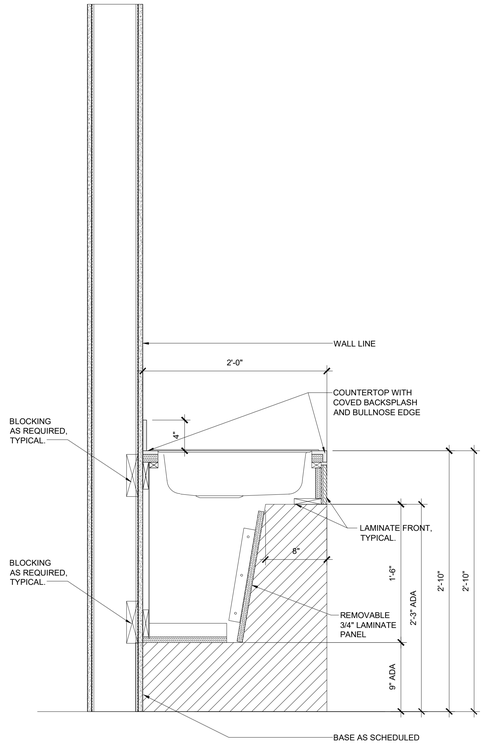
SHEET TITLE

MILLWORK ELEVATIONS

SHEET NUMBER

AE410

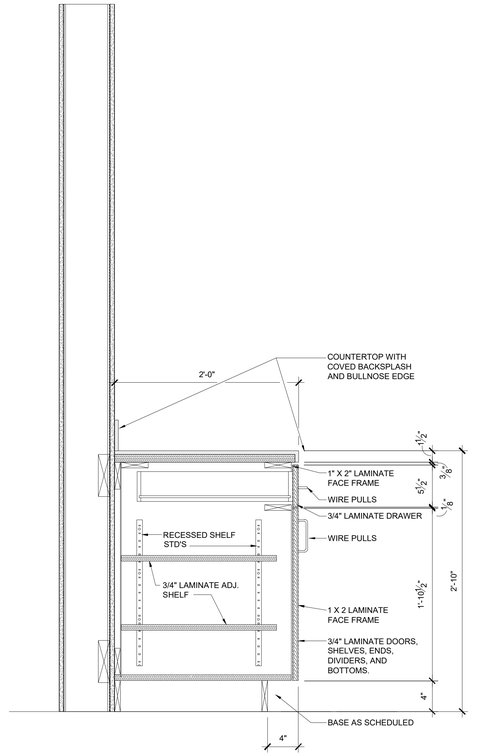
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



06 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

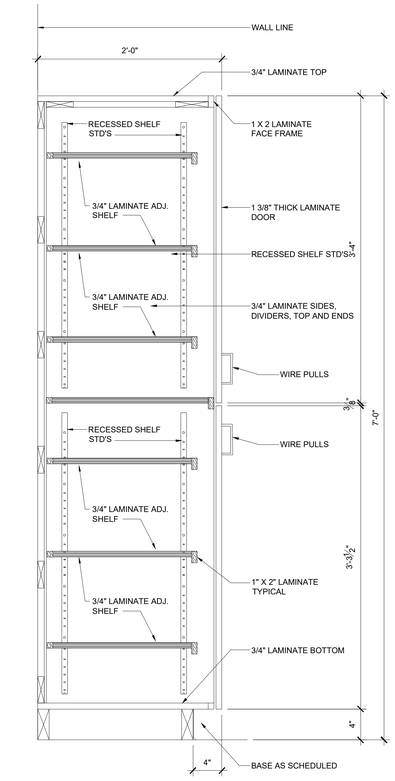
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



05 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

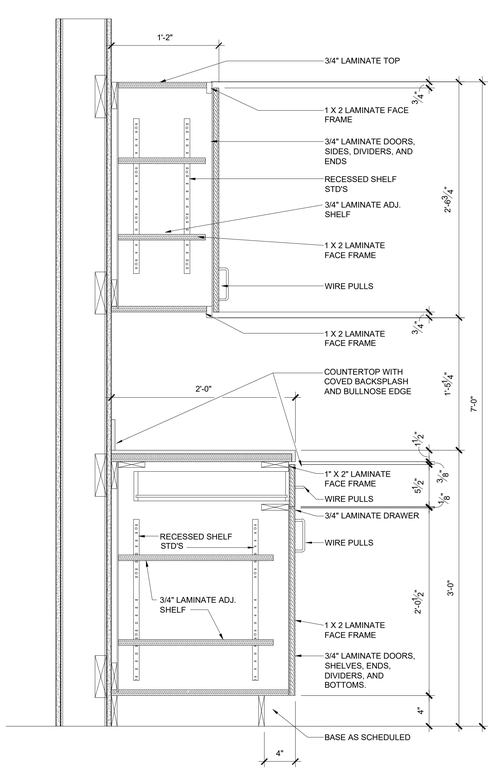
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



04 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

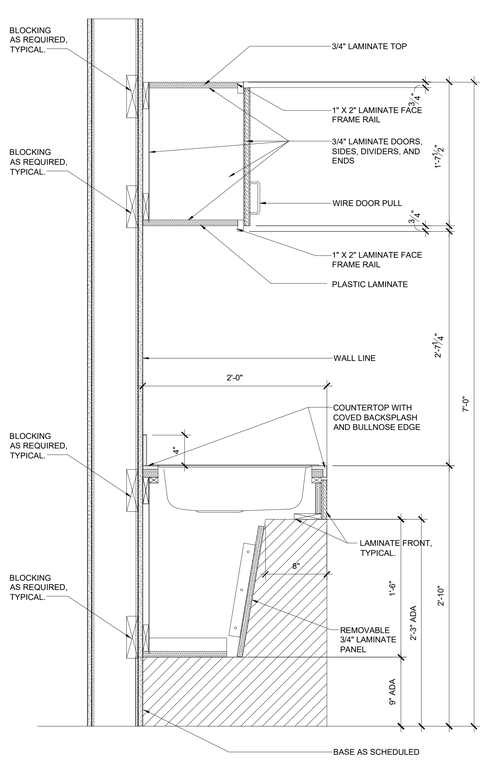
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



03 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

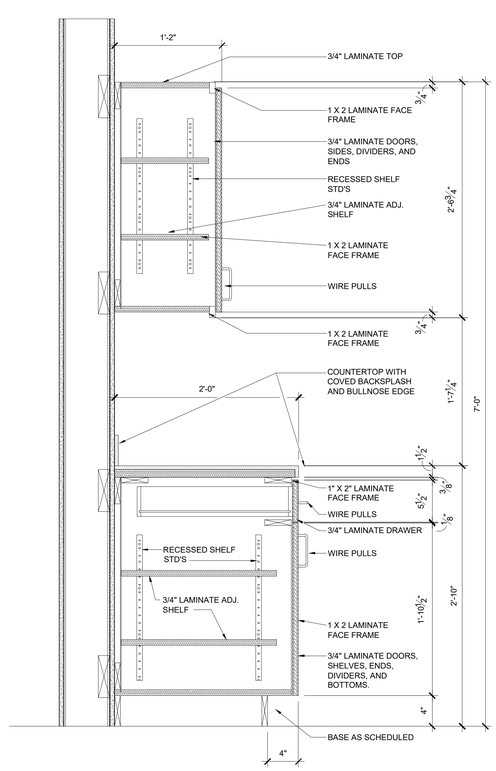
NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



02 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.



01 MILLWORK SECTION

SCALE: 1 1/2" = 1'-0"

NOTE:
PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS.

ARCHITECT OF RECORD

RGM Architects, LLC

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4/22/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 22, 2026

REVISIONS

No.	DATE	DESCRIPTION

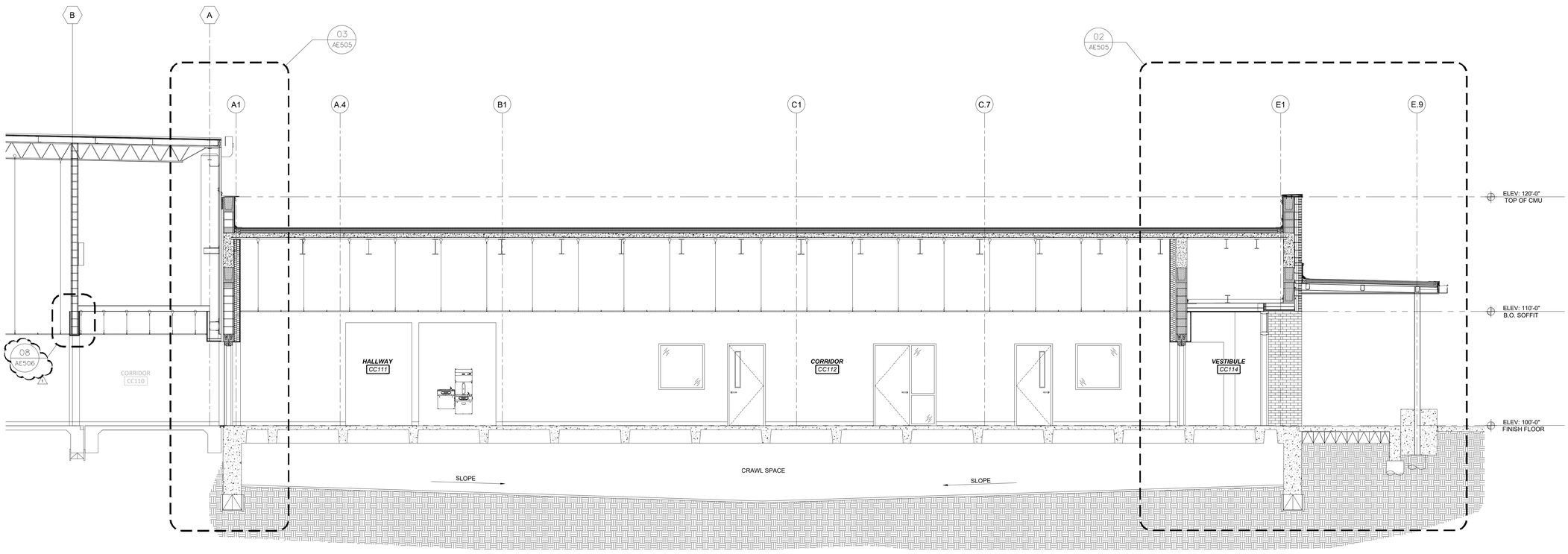
SHEET TITLE

MILLWORK SECTIONS

SHEET NUMBER

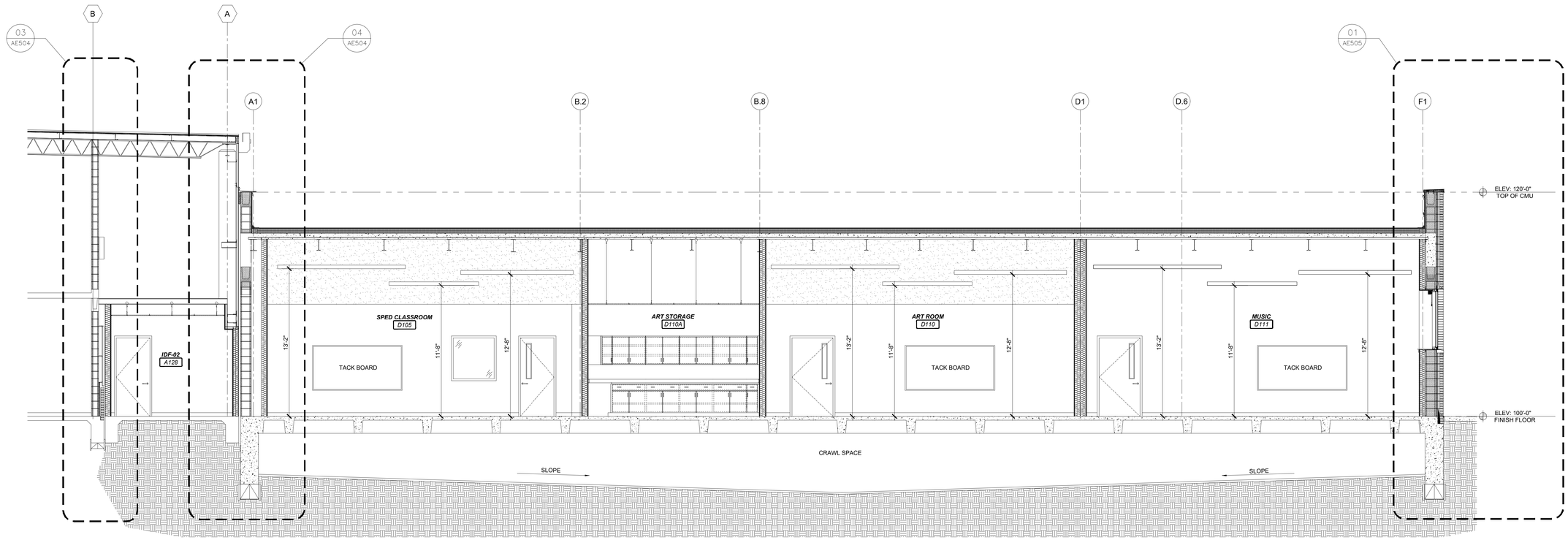
AE411

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



02 BUILDING SECTION

SCALE: 1/4" = 1'-0"



01 BUILDING SECTION

SCALE: 1/4" = 1'-0"

ARCHITECT OF RECORD

RGM Architects, LLC

2001 N. LAMAR STREET, SUITE 200
DALLAS, TEXAS 75202
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CONSULTANT

SEAL

REGISTERED ARCHITECT BRIAN COMPTON STATE OF TEXAS 27515

4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE

BUILDING SECTIONS

SHEET NUMBER

AE502

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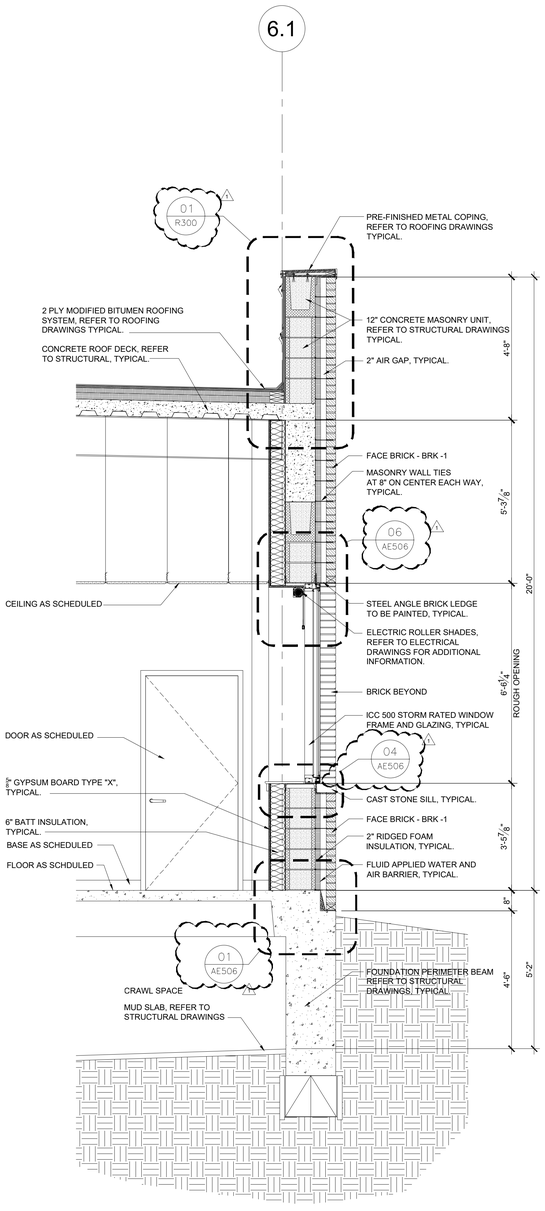
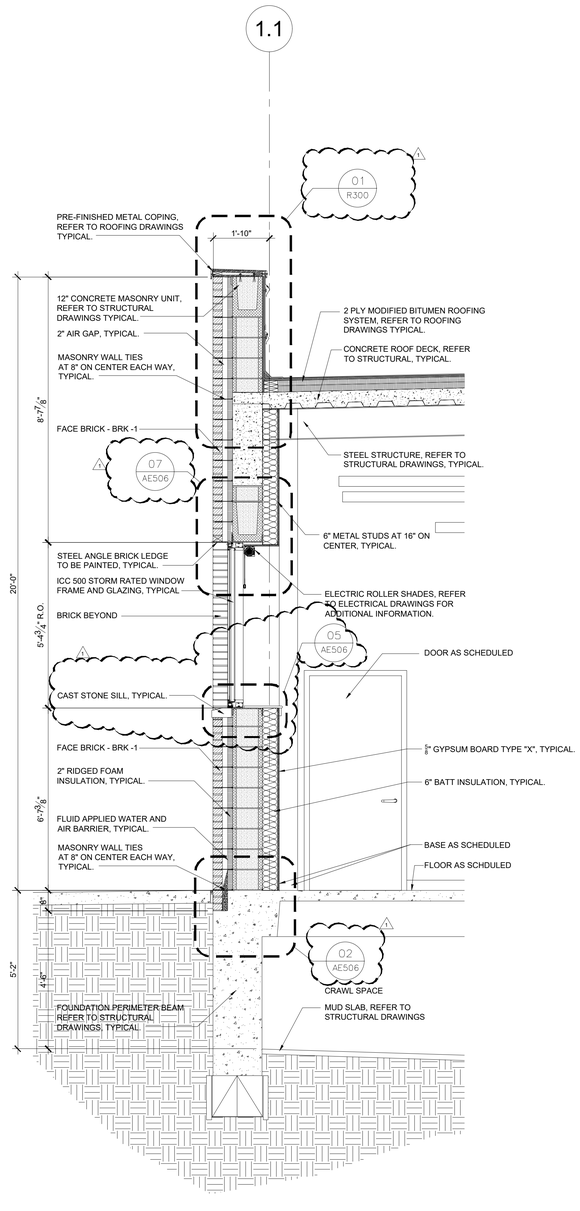


04 WALL SECTION

SCALE: 1/2" = 1'-0"



03 WALL SECTION

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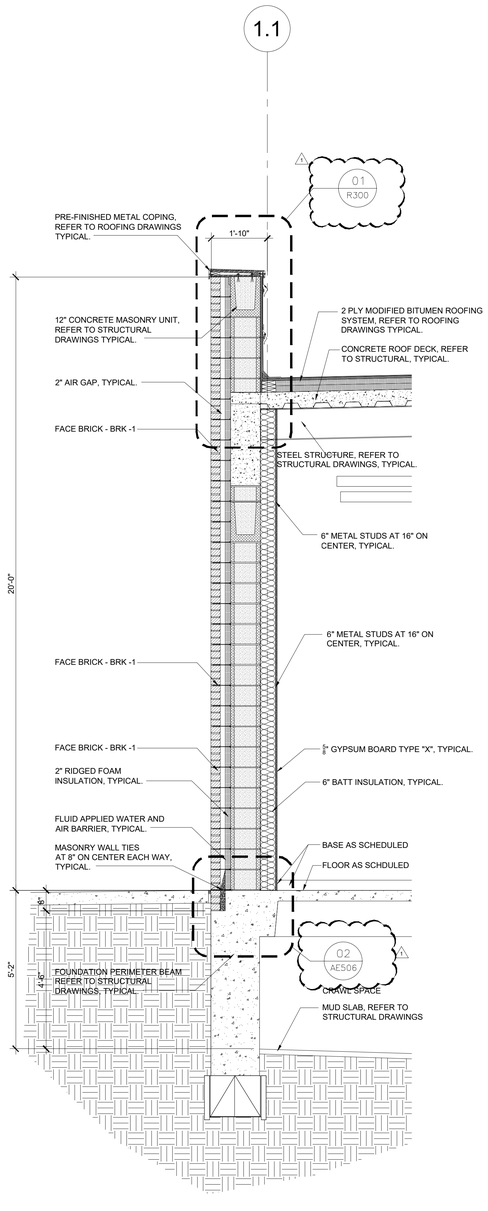

02 WALL SECTION

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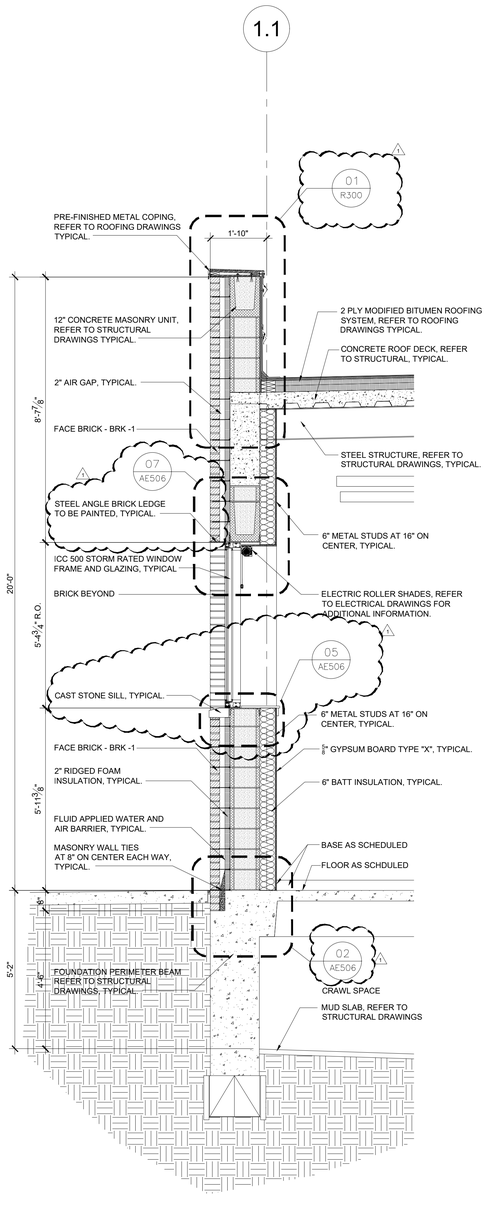

01 WALL SECTION

SCALE: 1/2" = 1'-0"

ARCHITECT OF RECORD

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SEAL

4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE

BUILDING SECTIONS

SHEET NUMBER

AE503

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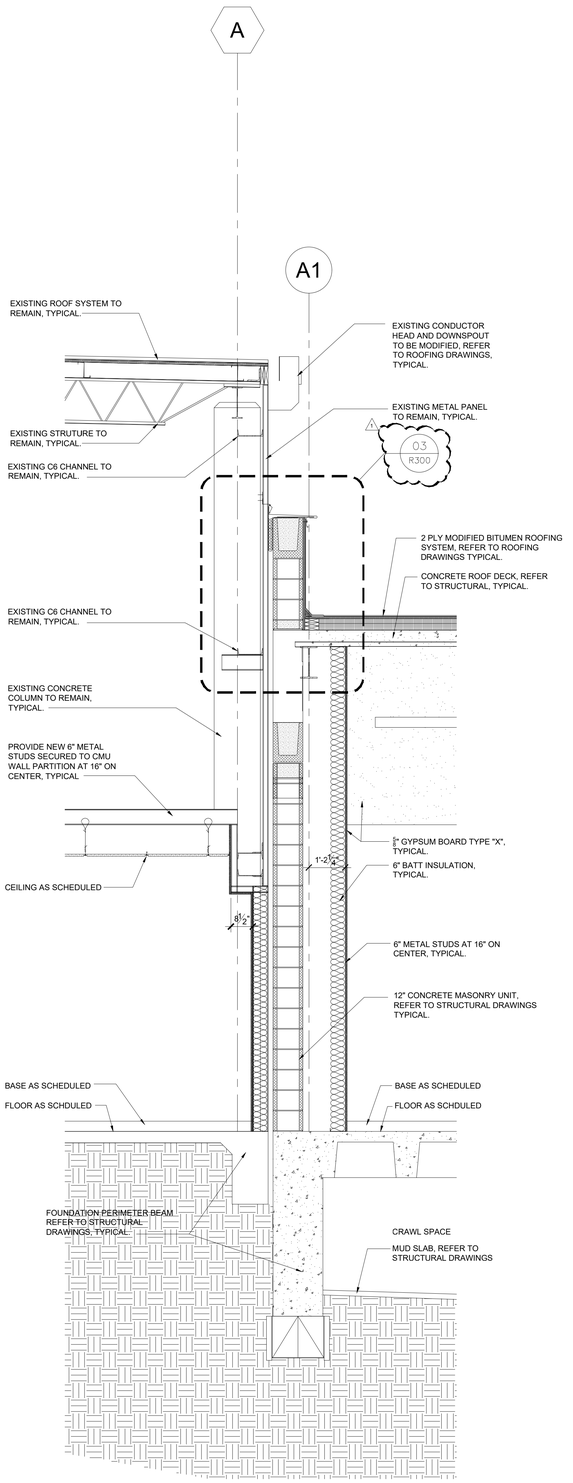

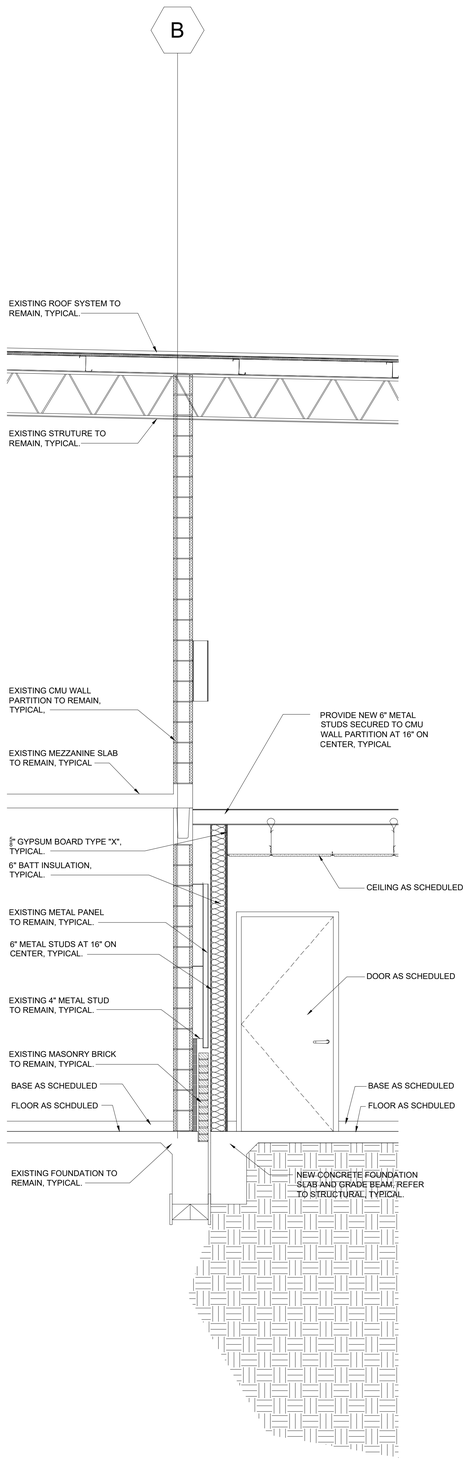

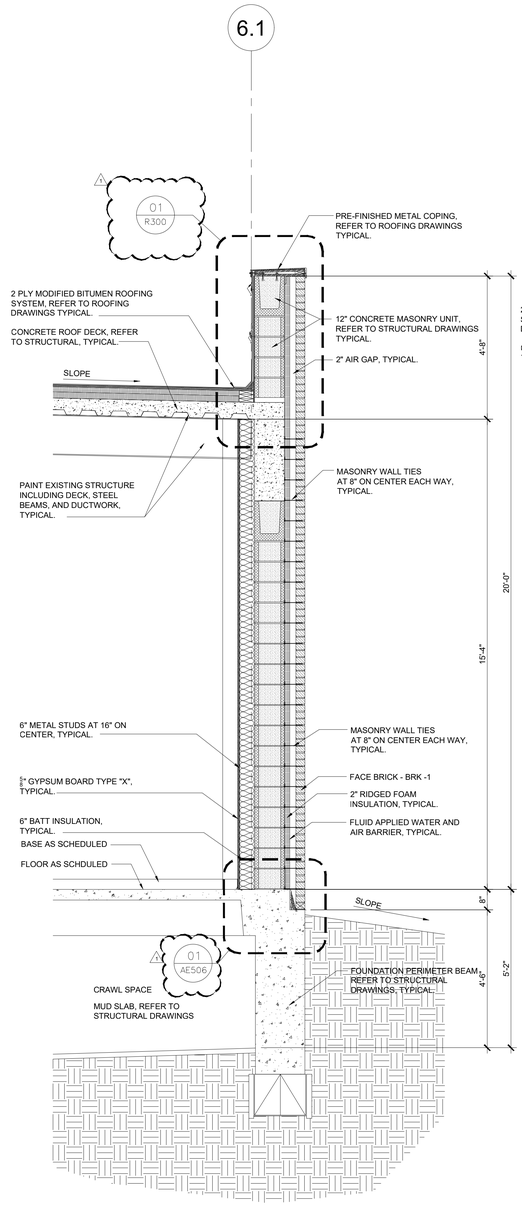

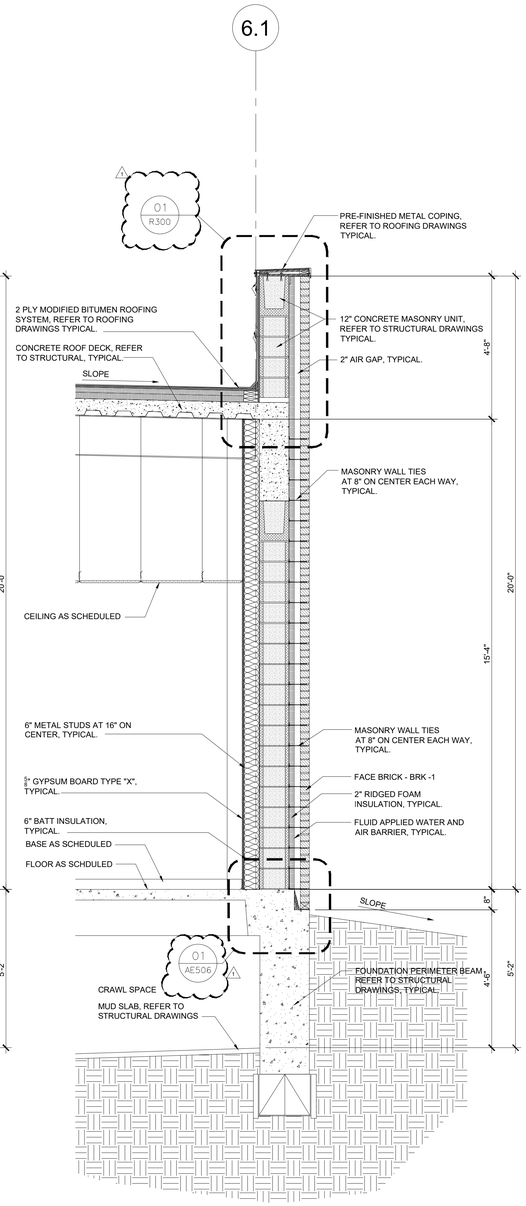

04 WALL SECTION
SCALE: 1/2" = 1'-0"

03 WALL SECTION
SCALE: 1/2" = 1'-0"

02 WALL SECTION
SCALE: 1/2" = 1'-0"

01 WALL SECTION
SCALE: 1/2" = 1'-0"

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DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED
APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
AE504

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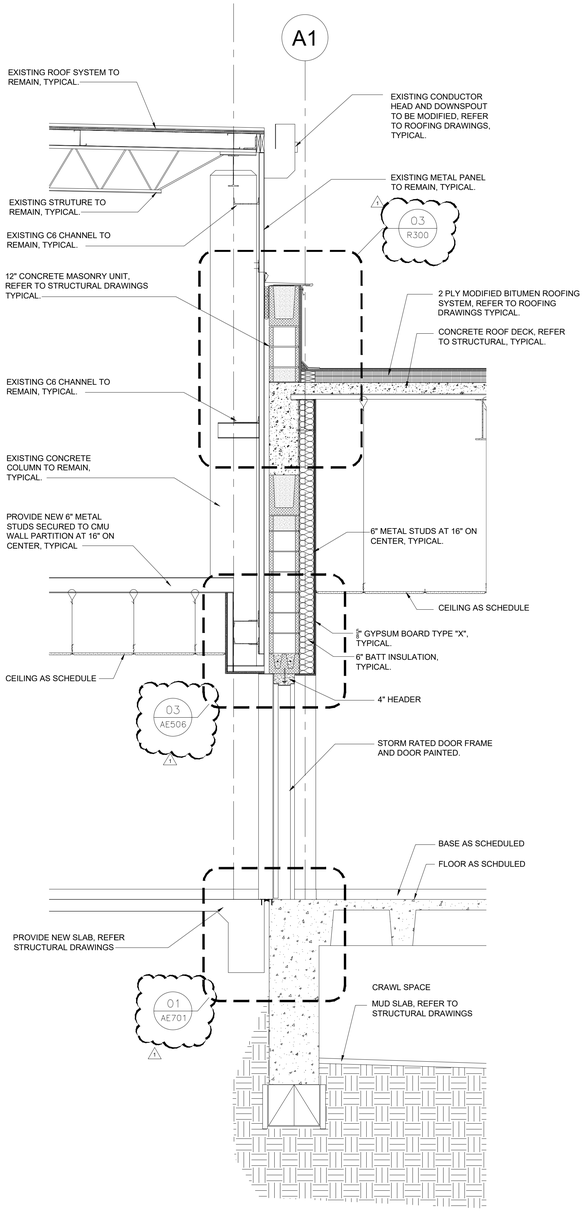
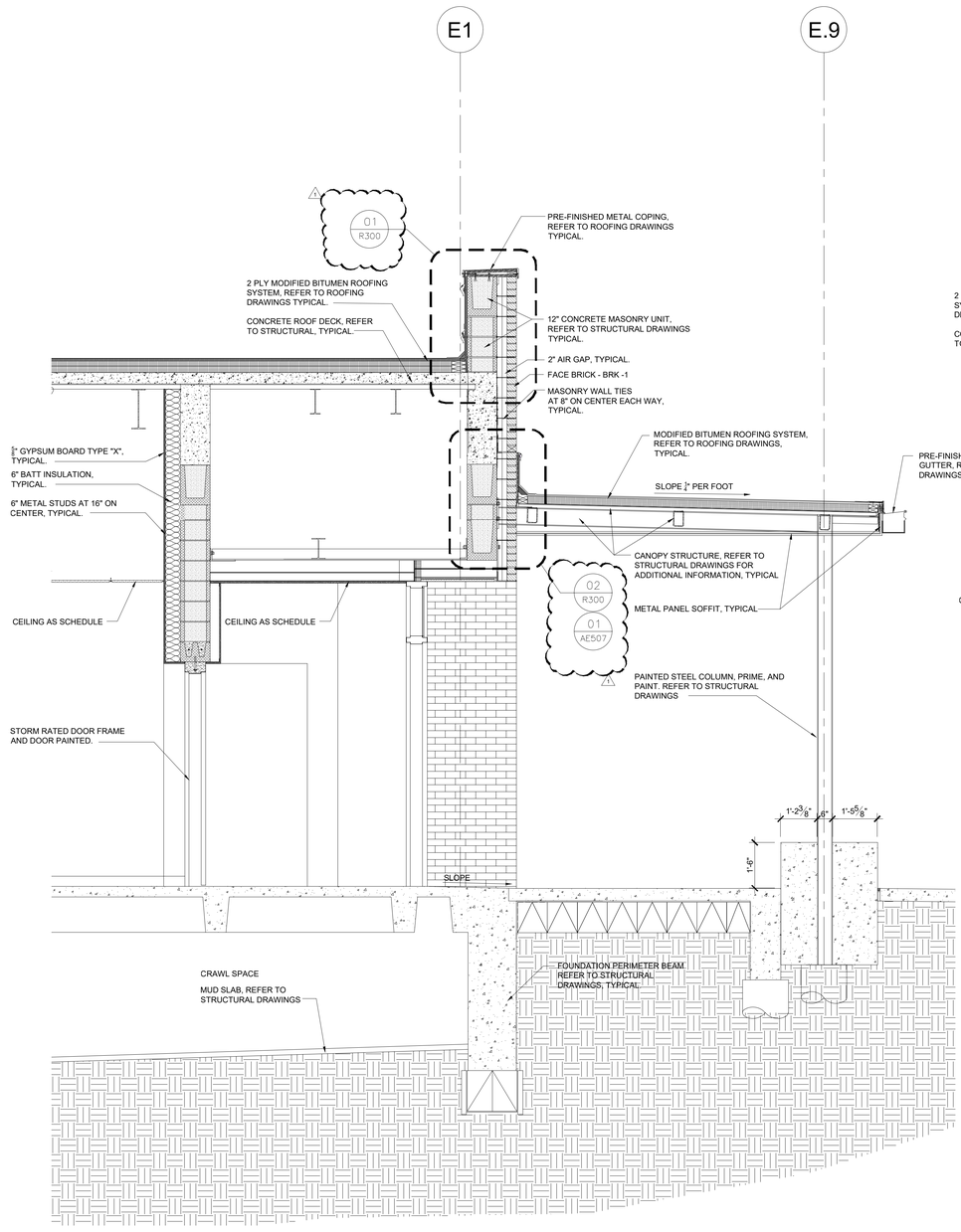


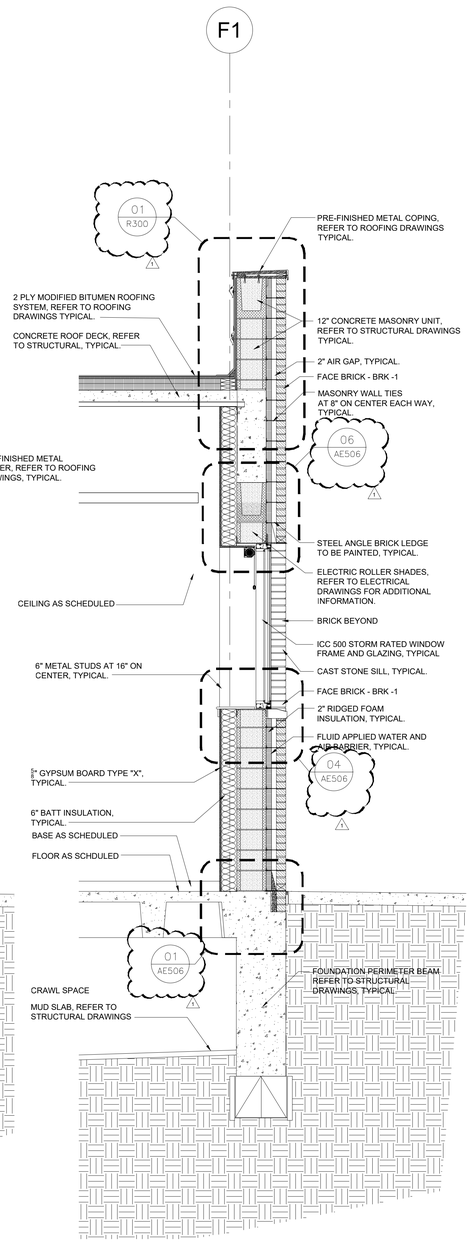
03 WALL SECTION

SCALE: 1/2" = 1'-0"



02 WALL SECTION

SCALE: 1/2" = 1'-0"



01 WALL SECTION

SCALE: 1/2" = 1'-0"

ARCHITECT OF RECORD

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BRIAN CONNOR 25107 REGISTERED ARCHITECT STATE OF TEXAS

4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

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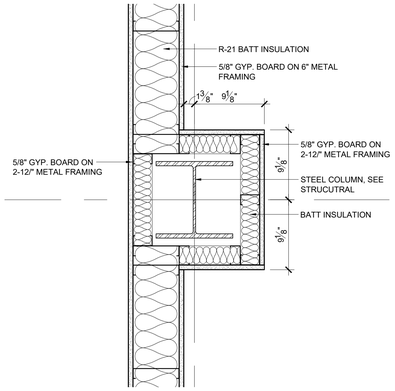
SHEET TITLE

BUILDING SECTIONS

SHEET NUMBER

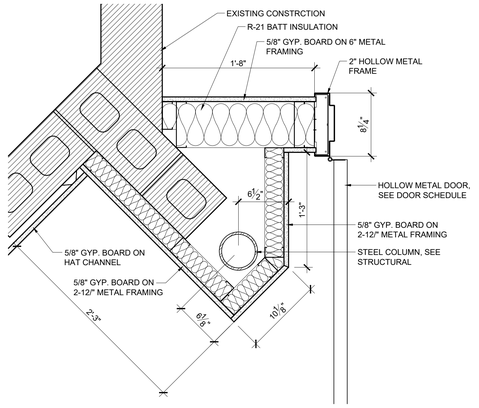
AE505

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



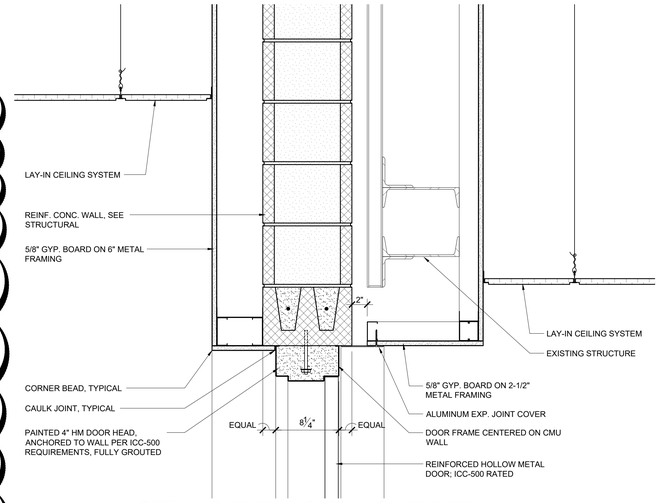
07 TYPICAL PILASTER AT COLUMN

SCALE: 1 1/2" = 1'-0"



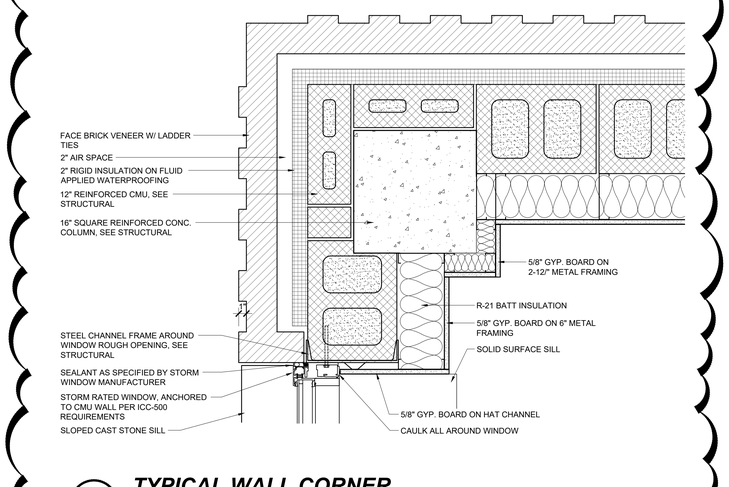
06 PILASTER DETAIL AT RECEPTION

SCALE: 1 1/2" = 1'-0"



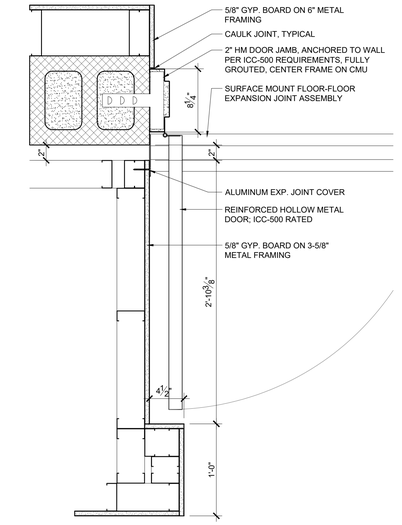
03 CEILING EXPANSION JONIT DETAIL

SCALE: 1 1/2" = 1'-0"



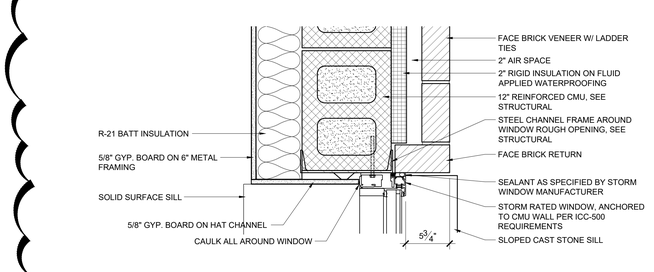
05 TYPICAL WALL CORNER

SCALE: 1 1/2" = 1'-0"



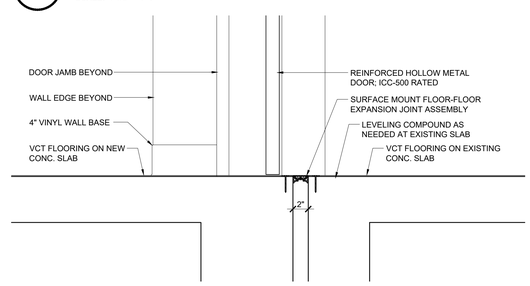
02 WALL EXPANSION JONIT DETAIL

SCALE: 1 1/2" = 1'-0"



04 STORM WINDOW DETAIL

SCALE: 1 1/2" = 1'-0"



01 FLOOR EXPANSION JONIT DETAIL

SCALE: 1 1/2" = 1'-0"

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4/5/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/2026	ADDENDUM NO. 1

SHEET TITLE

DOOR & WINDOW FRAME DETAILS

SHEET NUMBER

AE701

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

STRUCTURAL ABBREVIATIONS

A.B.	– ANCHOR BOLT	N/A	– NOT APPLICABLE
A/C	– AIR CONDITIONER	N.I.C.	– NOT IN CONTRACT
A/E	– ARCHITECT/ENGINEER	N.S.	– NEAR SIDE
A.F.F.	– ABOVE FINISHED FLOOR	N.T.S.	– NOT TO SCALE
ADDN'L.	– ADDITIONAL	NO. OR #	– NUMBER
ADJ.	– ADJACENT	NOM.	– NOMINAL
AHU	– AIR HANDLING UNIT		
ALT.	– ALTERNATE	O.A.	– OVERALL
ALUM.	– ALUMINUM	OC	– ON CENTER
APPROX.	– APPROXIMATE	O.D.	– OUTSIDE DIAMETER
ARCH.	– ARCHITECT	O.F.	– OUTSIDE FACE
ARCH'L.	– ARCHITECTURAL	O.G.L.	– ON GAGE LINE
		O.H.	– OPPOSITE HAND
B.F.F.	– BELOW FINISHED FLOOR	O.S.L.	– OUTSTANDING LEG
B.L.	– BUILDING LINE	OPNG(S).	– OPENING(S)
B.P.	– BASE PLATE	OPP.	– OPPOSITE
BAL.	– BALANCE	OZ.	– OUNCE
BLDG.	– BUILDING		
BLK.	– BLOCK	P/C.	– PRECAST CONCRETE
BLKG.	– BLOCKING	P-T.	– POST-TENSION(ED)(ING)
BM.	– BEAM	P.E.	– PROFESSIONAL ENGINEER
BOT.	– BOTTOM	P.S.F.	– POUNDS PER SQUARE FOOT
BRDG.	– BRIDGING	P.S.I.	– POUNDS PER SQUARE INCH
BRG.	– BEARING	PAR.	– PARALLEL
BRKT.	– BRACKET	PC.	– PIECE
BSMT.	– BASEMENT	PERIM.	– PERIMETER
BTWN.	– BETWEEN	PERP.	– PERPENDICULAR
		PL.	– PLATE
C. OR COMP.	– COMPRESSION	PREFAB.	– PREFABRICATED
C.I.P.	– CAST-IN-PLACE	PTFE	– POLYTETRAFLUOROETHYLENE
C.J.	– CONSTRUCTION JOINT		
C.L. OR ℄	– CENTER LINE	QTY.	– QUANTITY
CANT'L	– CANTILEVER		
CLG.	– CEILING	R	– RADIUS
CLR.	– CLEAR	R.D.	– ROOF DRAIN
COL.	– COLUMN	RCP	– REINFORCED CONCRETE PIPE
CMU	– CONCRETE MASONRY UNIT	REBAR	– REINFORCING BAR(S)
CONC.	– CONCRETE	REF.	– REFERENCE
CONN(S).	– CONNECTION(S)	REINF.	– REINFORCE(ING)(ED)(MENT)
CONSTR.	– CONSTRUCTION	REQ'D.	– REQUIRED
CONT.	– CONTINUOUS		
CONTR.	– CONTRACTOR	S.F.	– SQUARE FOOT (FEET)
CTR.	– CENTER	S.O.G.	– SLAB ON GRADE
		S.W.	– SHORT WAY
D.L.	– DEAD LOAD	S.W.B.	– SHORT WAY BOTTOM
DBL.	– DOUBLE	S.W.T.	– SHORT WAY TOP
DEG. OR o	– DEGREE(S)	S.W.T.B.	– SHORT WAY TOP AND BOTTOM
DET.	– DETAIL	SCHED.	– SCHEDULE(D)
DIA. OR	– DIAMETER	SECT.	– SECTION
DIAG.	– DIAGONAL	SHT.	– SHEET
DIM(S). #	– DIMENSION(S)	SIM.	– SIMILAR
DN.	– DOWN	SL.	– SLAB
DWG(S).	– DRAWING(S)	SLV.	– SLEEVE
DWL(S).	– DOWEL(S)	SP.	– SPACE
		SPCS.	– SPACES
E.E.	– EACH END	SPEC(S).	– SPECIFICATION(S)
E.F.	– EACH FACE	SQ.	– SQUARE
E.J.	– EXPANSION JOINT	SS.	– STAINLESS STEEL
E.S.	– EACH SIDE	STD.	– STANDARD
E.W.	– EACH WAY	STL.	– STEEL
E.W.B.	– EACH WAY BOTTOM	STIFF.	– STIFFENER(S)
E.W.T.	– EACH WAY TOP	STIR.	– STIRRUP(S)
E.W.T.B.	– EACH WAY TOP AND BOTTOM	STR.	– STRAIGHT
EA.	– EACH	STRUCT'L.	– STRUCTURAL
EL.	– ELEVATION	SYM.	– SYMMETRICAL
ELEC.	– ELECTRIC(AL)		
EMBED.	– EMBED(DED)(MENT)	T & G	– TONGUE AND GROOVE
EQ.	– EQUAL	T & B	– TOP AND BOTTOM
EQUIP.	– EQUIPMENT	T.O.B.	– TOP OF BEAM
EXIST.	– EXISTING	T.O.F.	– TOP OF FOOTING
EXP.	– EXPANSION	T.O.J.	– TOP OF JOIST
EXT.	– EXTERIOR	T.O.P.	– TOP OF PIER
		T.O.P.C.	– TOP OF PIER CAP
F. TO F.	– FACE TO FACE	T.O.S.	– TOP OF STEEL
F.D.	– FLOOR DRAIN	T.O.S.C.	– TOP OF STRUCTURAL CONCRETE
F.P.	– FULL PENETRATION	T.O.W.	– TOP OF WALL
F.S.	– FAR SIDE	TEMP.	– TEMPERATURE
FDN.	– FOUNDATION	TEN.	– TENSION
FIN. FL.	– FINISHED FLOOR	THK.	– THICK
FL.	– FLOOR	THK'N(D)	– THICKEN(ED)
FLG.	– FLANGE	TYP.	– TYPICAL
FT.	– FOOT (FEET)		
FTG.	– FOOTING	U.N.O.	– UNLESS NOTED OTHERWISE
G.C.	– GENERAL CONTRACTOR	VERT.	– VERTICAL
GA.	– GAGE OR GAUGE	V.I.F.	– VERTICAL INSIDE FACE
GALV.	– GALVANIZED	V.O.F.	– VERTICAL OUTSIDE FACE
GEN.	– GENERAL	VOL.	– VOLUME
GB.	– GRADE BEAM		
		W/	– WITH
H.P.	– HIGH POINT	W/O	– WITHOUT
H.S.	– HEADED STUD(S)	W.P.	– WORK POINT
HK.	– HOOK	W.S.	– WATERSTOP
H.I.F.	– HORIZONTAL INSIDE FACE	W.W.F.	– WELDED WIRE FABRIC
H.O.F.	– HORIZONTAL OUTSIDE FACE	WGT.	– WEIGHT
HT.	– HEIGHT		
HVAC	– HEATING, VENTILATION AND AIR CONDITIONING	X	– EXTRA
		XX	– DOUBLE EXTRA
I.D.	– INSIDE DIAMETER		
I.F.	– INSIDE FACE	YD.	– YARD
IN.	– INCHES		
INFO.	– INFORMATION		
INSUL.	– INSULATION		
INT.	– INTERIOR		
INTERM.	– INTERMEDIATE		
JST(S).	– JOIST(S)		
JT.	– JOINT		
K	– KIPS (1000 LBS)		
K.L.F.	– KIP PER LINEAR FOOT		
K.S.F.	– KIP PER SQUARE FOOT		
L.L.	– LIVE LOAD		
LLH	– LONG LEG HORIZONTAL		
LLV	– LONG LEG VERTICAL		
L.P.	– LOW POINT		
L.W.	– LONG WAY		
L.W.B.	– LONG WAY BOTTOM		
L.W.T.	– LONG WAY TOP		
L.W.T.B.	– LONG WAY TOP AND BOTTOM		
LB., #	– POUND		
LG.	– LONG		
LONG.	– LONGITUDINAL		
LWGT.	– LIGHTWEIGHT		
M.C.	– MOMENT CONNECTION		
M.O.	– MASONRY OPENING		
MAS'Y	– MASONRY		
MAT'L	– MATERIAL		
MAX.	– MAXIMUM		
MECH.	– MECHANICAL		
MEZZ.	– MEZZANINE		
MFR.	– MANUFACTURER		
MIN.	– MINIMUM		
MISC.	– MISCELLANEOUS		
MK.	– MARK		
MTL.	– METAL		

GENERAL NOTES

DESIGN LOADS

1. GRAVITY LOADS:

   A. DESIGN UNIFORM LIVE LOADS ARE AS LISTED BELOW. LIVE LOAD REDUCTIONS ARE CALCULATED IN ACCORDANCE WITH THE IBC 2021 BUILDING CODE

   B. DESIGN UNIFORM SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE WEIGHT OF THE BUILDING STRUCTURE.

   C. MECHANICAL ROOMS ARE DESIGNED TO SUPPORT THE EQUIPMENT SHOWN ON THE MECHANICAL DRAWINGS. ANY MODIFICATIONS TO THE SIZE, WEIGHT OR LOCATION OF EQUIPMENT SHOULD BE SUBMITTED FOR REVIEW OF LOADING PRIOR TO INSTALLATION OF EQUIPMENT.

      MECHANICAL HOUSEKEEPING PADS SHALL NOT BE MADE THICKER THAN 4" WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

   D. UNIFORM LIVE LOADS

      TORNADO SHELTER ROOF = 100 PSF
      STANDARD ROOF = 20 PSF

   E. UNIFORM SUPERIMPOSED DEAD LOADS

      ROOF = 10 PSF CEILING & MECH'L. + 10 PSF ROOFING
      OTHER AREAS = 10 PSF CEILING & MECH'L.

   F. CONCENTRATED LIVE LOADS

      ROOF = 300 LB. (APPLIED OVER 1'–0" x 1'–0" AREA)

2. SNOW LOAD

   A. GROUND SNOW LOAD – CITY OF SEAGOVILLE = 5 PSF

3. WIND LOADS

   A. IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC 2021)

   B. WIND COEFFICIENTS AND CATEGORIES – CITY OF SEAGOVILLE (NON SHELTER AREA)

      3 SEC GUST ..... 115 MPH (ULTIMATE)
      EXPOSURE CLASS C
      RISK CATEGORY III
      NOMINAL WIND SPEED SERVICE ..... 93 MPH
      WIND IMPORTANCE FACTOR, Iw 1.15
      TOPOGRAPHIC FACTOR, K 1.00
      DIRECTIONALITY FACTOR, KE 1.00
      INTERNAL PRESSURE COEFFICIENT... +/– 0.18

   C. COMPONENT AND CLADDING DESIGN UPLIFT PRESSURES: (ULTIMATE)

      AT ROOF:
      = 39 PSF TYPICAL.
      = 48 PSF WITHIN 5'–0" OF EDGE OR STEP IN ROOF.
      = 48 PSF IN CORNER ZONES AS DEFINED IN BUILDING CODE
      AT OVERHANG:
      = 27 PSF AT EDGE
      = 27 PSF AT CORNERS, AS DEFINED IN BUILDING CODE

   D. EXTERIOR WALL DESIGN PRESSURES: (ULTIMATE)

      = 29 PSF(+), ALL ZONES
      = 32 PSF(–), INTERIOR
      = 32 PSF(–), EDGE ZONES

   E. ESTIMATED ROOF DEAD LOAD: (NOT INCLUDING STRUCTURE)

      ROOF DEAD LOAD = 10 PSF

4. SEISMIC LOADS

   A. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC 2021)

   B. SEISMIC COEFFICIENTS AND CATEGORIES – CITY OF SEAGOVILLE

      OCCUPANCY CATEGORY III
      SEISMIC IMPORTANCE FACTOR 1.25

      MAPPED SPECTRAL RESPONSE ACCELERATIONS:
      0.2 SEC RESPONSE Ss ..... 0.095 g
      1.0 SEC RESPONSE S1 ..... 0.052 g

      SITE CLASS C

      DESIGN SPECTRAL ACCELERATION PARAMETERS:
      0.2 SEC RESPONSE SDS ..... 0.076 g
      1.0 SEC RESPONSE SD1 ..... 0.059 g

      SEISMIC DESIGN CATEGORY ..... A

      BASIC SEISMIC FORCE RESISTING SYSTEM:
      STEEL ORDINARY MOMENT FRAMES

      DESIGN BASE SHEAR..... 15 KIPS
      SEISMIC RESPONSE COEFFICIENT.. 0.01

STRUCTURAL STEEL

1. STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

   A. ALL WIDE FLANGE & WT SECTIONS – ASTM A992, GRADE 50

   B. ALL HSS MEMBERS – ASTM A500, GRADE B, 46 KSI FOR RECT. SHAPES, 42 KSI FOR ROUND SHAPES

   C. ALL PIPE MEMBERS – ASTM A53 (E OR S), GRADE B

   D. ALL ANCHOR BOLTS – ASTM F1554, GRADE 55 (1)

   E. ALL OTHER SHAPES AND PLATES – ASTM A36

2. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 IN.

   A. CONFORMING TO ASTM A-325. ALL SHEAR CONNECTIONS SHALL BE DESIGNED AS BEARING-TYPE BASED ON THREADS INCLUDED IN THE SHEAR PLANE. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION, DEFINED AS "A FEW INPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A WORKER WITH AN ORDINARY SPUD WRENCH THAT BRINGS CONNECTED PLIES INTO FIRM CONTACT".

3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH A.W.S. CODE, BY CERTIFIED WELDERS. WELDING ELECTRODES SHALL BE E70 XX.

4. SEE SPECIFICATIONS FOR PRIMER SURFACE PREPERATION REQUIREMENTS. DO NOT APPLY PRIMER TO ANY STEEL PARTS THAT ARE TO BE ENCASED IN CONCRETE OR ARE TO BE FIREPROOFED USING BLOWN-UP FIREPROOFING MATERIALS.

5. ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED AS "SIMPLE CONNECTIONS", AND SHALL BE SHOP WELDED AND FIELD BOLTED. SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE REACTION SHOWN ON PLANS, WHICH ARE UNFACTORED, BASED ON WORKING LOADS. IF NO REACTION IS SHOWN, THE CONNECTION SHALL BE DESIGNED FOR 50% OF THE TOTAL LOAD CAPACITY LISTED ON THE TABLE: "MAXIMUM TOTAL UNIFORM LOAD" (Tbl. 3-6), OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. IN NO CASE, HOWEVER, SHOULD ANY CONNECTION BE DESIGNED FOR LESS THAN 7 KIPS, UNFACTORED.

6. SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, USING THE DESIGN PARAMETERS INDICATED ON NOTE NO. 5 ABOVE.

7. CONNECTIONS INDICATED AS MOMENT CONNECTIONS IN THE STRUCTURAL DRAWINGS SHALL BE DESIGNED TO RESIST THE FULL MOMENT CAPACITY OF THE SUPPORTED

   A. SHEAR CONNECTIONS IN MOMENT CONNECTIONS MAY BE EITHER WELDED OR BOLTED, AT STEEL FABRICATOR'S OPTION.

8. PROVIDE STIFFENERS AT ALL LOCATIONS SHOWN ON DETAILS, WHETHER OR NOT THEY ARE REQUIRED BY CALCULATIONS.

9. ALL COLUMN BASE PLATES SHALL BE FULLY GROUTED, WITH NO VOIDS, IMMEDIATELY AFTER THE FRAME ERECTION IS COMPLETED AND PLUMBED, AND PRIOR TO POURING THE TOPPING SLABS FOR FLOORS OR APPLYING DECKING TO ROOF JOISTS.

FOUNDATION (1)

1. THESE NOTES APPLY TO ALL FOUNDATIONS DETAILED ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE.

2. FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY ECS SOUTHWEST, LLP. PROJECT NO.19–10333, DATED MARCH 19 2026.

3. ALLOWABLE END BEARING PRESSURE IS 30 KSF FOR DRILLED SHAFT STRAIGHT PIERS WITH AT LEAST 5'–0" PENETRATION INTO THE GRAY SHALE, FOUNDED AT A DEPTH OF 32 FEET BELOW THE EXISTING GRADE.ALLOWABLE SKIN FRICTION IS 5.0 KSF(COMPRESSION) AND 3.0 KSF(TENSION) FOR THE PORTION OF THE SHAFT IN DIRECT CONTACT WITH THE BEDROCK BELOW TEMPORARY CASING.

   ALLOWABLE BEARING PRESSURE IS 4 KSF FOR DRILLED UNDERREAMED PIERS BEARING IN OVERBURDEN NATURAL LEAN CLAY SOILS SANDY CLAY AT A DEPTH OF 15 FEET BELOW FINISHED GRADE. (BELL PIERS TO BE USED ONLY FOR THE FOUNDATION OF THE MONUMENT SIGN)

   DESIGN UPLIFT PRESSURE IS 1.2 KSF EXISTING SOIL ACTING ON THE SURFACE OF PIER SHAFTS FOR A DEPTH OF 10 FEET BELOW THE EXISTING GROUND SURFACE.

4. CAST CONCRETE WITHIN 8 HOURS OF DRILLING PIER SHAFT INTO BEARING STRATUM, AND IN NO CASE SHALL THE PIER EXCAVATION REMAIN OPEN OVERNIGHT.

5. SEE DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER (PROVIDE 15 MIL POLYETHYLENE MINIMUM). TURN DOWN AT GRADE BEAMS AND PIERS. LAP AND SEAL AT ALL JOINTS AND AROUND ALL COLUMNS AND STUB-OUTS. PATCH ALL TEARS PRIOR TO PLACING CONCRETE.

6. ALL GRADE BEAMS SHALL BE FORMED ON BOTH SIDES. EARTH-FORMING IS NOT ALLOWED.

7. IT IS NECESSARY TO USE TEMPORARY CASING WHILE DRILLING THE PIERS IF UNDERGROUND WATER IS ENCOUNTERED.

8. TEMPORARY CASINGS ARE NECESSARY, EXTRACTION OF THE CASINGS SHALL BE DONE IN A MANNER THAT MAINTAINS A POSITIVE HEAD OF PLASTIC CONCRETE SO AS TO MINIMIZE THE POTENTIAL FOR INFILTRATION OF WATER SEEPAGE OR SLOUGHING SOILS.

CAST IN PLACE REINFORCED CONCRETE

1. ALL STRUCTURAL CONCRETE SHALL BE OF NORMAL WEIGHT AGGREGATE WITH SPECIFIED PROPERTIES AS FOLLOWS:

	28 DAY STRENGTH	SLUMP	MAX.AGGREGATE
PIERS	– 3000 P.S.I.	5"–7"	1"
GRADE BEAMS	– 4000 P.S.I.	3"–5"	1"
ROOF BEAMS	– 4000 P.S.I.	3"–5"	1"
COLUMNS	– 4000 P.S.I.	3"–5"	1"
SLABS ON GROUND	– 3000 P.S.I.	3"–5"	1"
SLABS ON METAL DECK	– 3500 P.S.I.	3"–5"	3/4"
TOPPING SLABS	– 3000 P.S.I.	3"–5"	3/4"
OTHER CONCRETE	– 3000 P.S.I.	3"–5"	1"

2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.

3. REINFORCING STEEL SPECIFICALLY NOTED TO BE SHOP OR FIELD WELDED SHALL CONFORM TO ASTM A-706, GRADE 60. WELDING OF OTHER REINFORCING STEEL IS NOT PERMITTED.

4. ALL REINFORCING SHALL LAP 48 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. HOOK CONTINUOUS BARS AT DISCONTINUOUS ENDS.

5. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, NOT ROLLS.

6. DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI PUBLICATION 315.

7. UNLESS NOTED OTHERWISE, CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS:

PIERS	3" TO VERTICAL STEEL
SLABS ON GROUND	1–1/2" TOP
FORMED BEAMS AND WALLS	2" SIDES AND TOP, 2" BOTTOM TO MAIN STEEL
BEAMS AND WALLS CAST AGAINST EARTH	2" SIDES AND TOP, 3" BOTTOM TO MAIN STEEL

8. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE, EXCEPT WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT OR NEAR THE CENTER OF SPANS, OR AS APPROVED BY THE STRUCTURAL ENGINEER.

9. PROVIDE 5% (+/– 1.5%) AIR ENTRAINMENT IN CONCRETE PERMANENTLY EXPOSED TO WEATHER. USE OF AIR ENTRAINMENT, & CORRESPONDING REDUCTION OF WATER/CEMENT, MUST BE NOTED ON MIX DESIGNS. DO NOT USE AIR ENTRAINMENT IN SLABS WHICH HAVE HARD TROWEL FINISH.

10. PLACE 6" P.V.C. WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.

11. SEE SPECIFICATIONS FOR FORMWORK GUIDELINES.

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DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	04/22/26	ADDENDUM #1

SHEET TITLE

ABBREVIATION & GENERAL NOTES

SHEET NUMBER

S101

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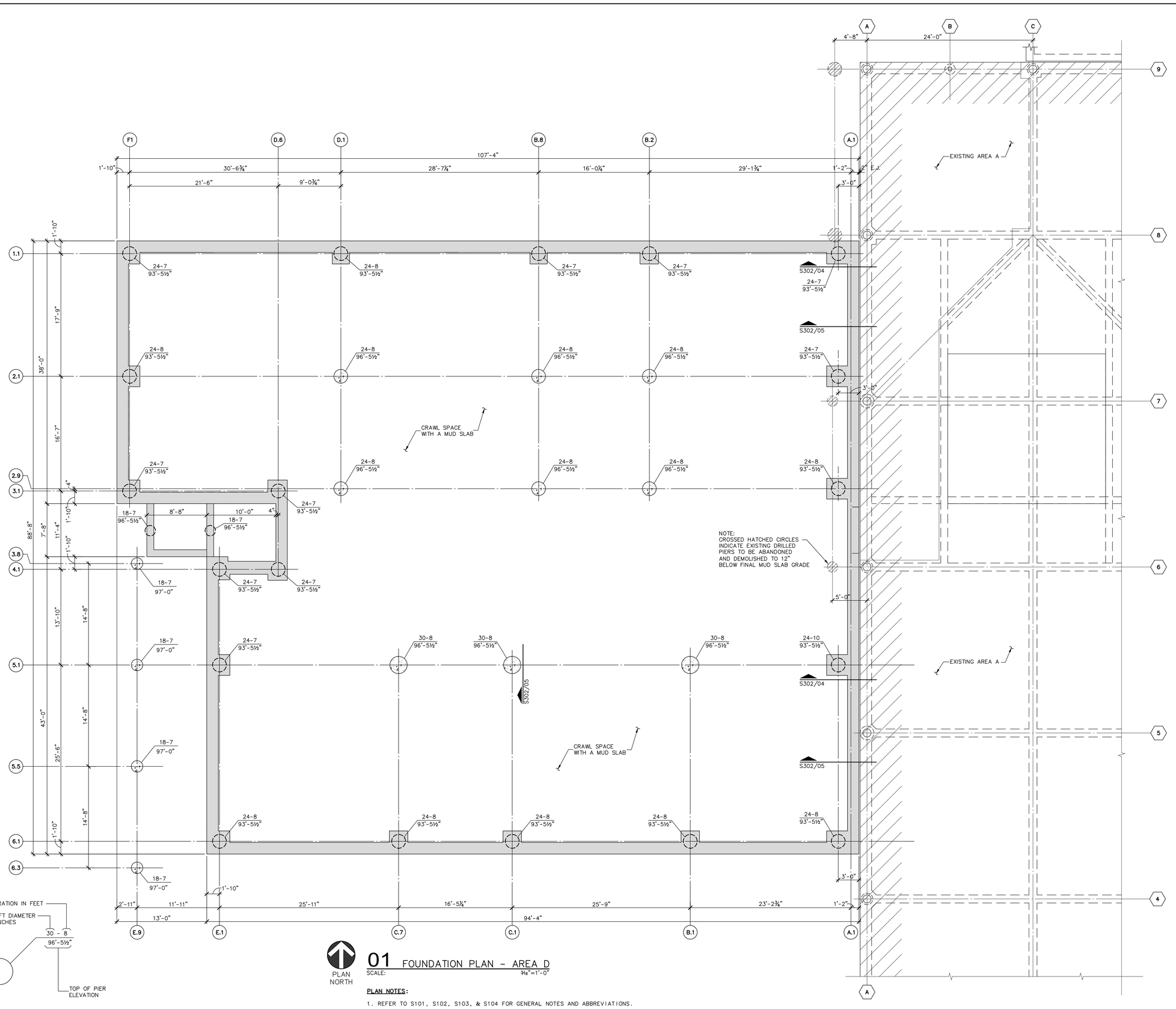

01 FOUNDATION PLAN - AREA D

SCALE: 3/16"=1'-0"

PLAN NOTES:

1. REFER TO S101, S102, S103, & S104 FOR GENERAL NOTES AND ABBREVIATIONS.
2. REFER TO S601, S602 & S605 FOR TYPICAL DETAILS.
3. DRILLED PIERS SHALL BE CENTERED ON BEAMS AND WALLS THEY SUPPORT UNLESS OTHERWISE NOTED.

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SHEET TITLE

FOUNDATION PLAN AREA D

SHEET NUMBER

S200

1

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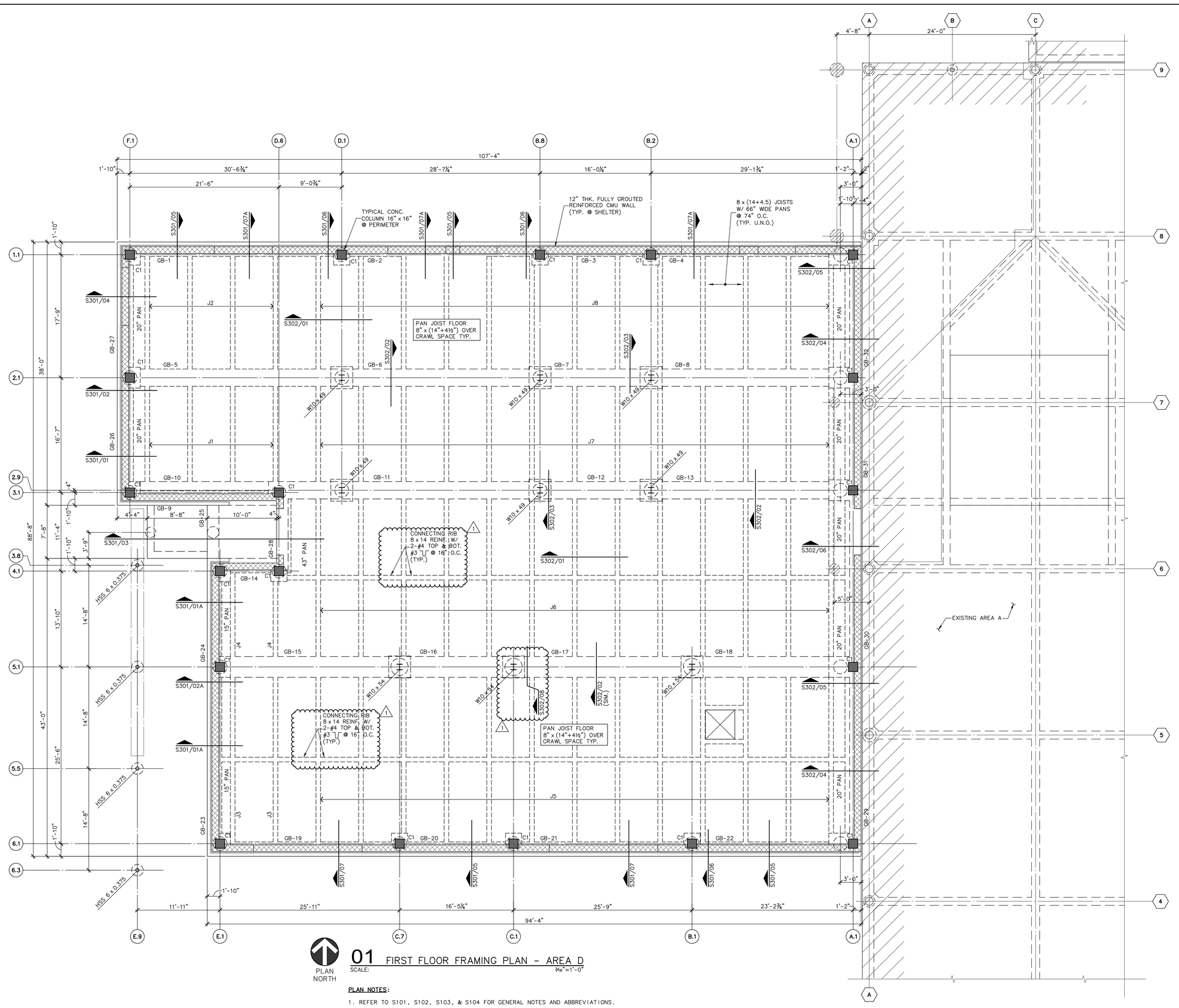

01 FIRST FLOOR FRAMING PLAN - AREA D
SCALE: 3/16"=1'-0"

PLAN NORTH

PLAN NOTES:

1. REFER TO S101, S102, S103, & S104 FOR GENERAL NOTES AND ABBREVIATIONS.
2. REFER TO S601, S602 & S605 FOR TYPICAL DETAILS.
3. C1 DENOTES 16"x16" CONCRETE COLUMN. REFER DETAIL 'A' ON SHEET S301.

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SHEET TITLE

FIRST FLOOR FRAMING PLAN - AREA D

SHEET NUMBER

S201

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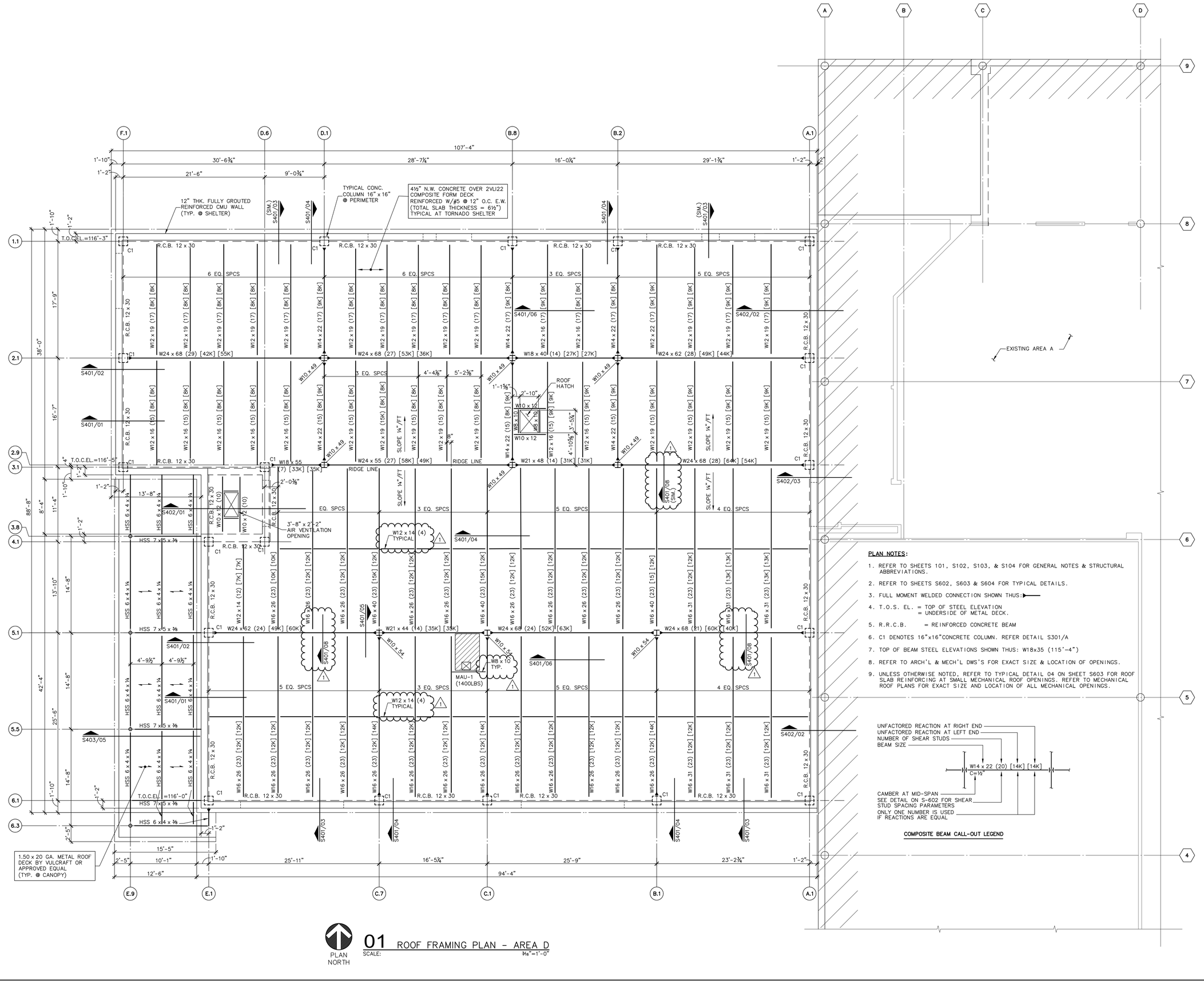

PLAN NOTES:

1. REFER TO SHEETS 101, S102, S103, & S104 FOR GENERAL NOTES & STRUCTURAL ABBREVIATIONS.
2. REFER TO SHEETS S602, S603 & S604 FOR TYPICAL DETAILS.
3. FULL MOMENT WELDED CONNECTION SHOWN THUS: ▶
4. T.O.S. EL. = TOP OF STEEL ELEVATION
   = UNDERSIDE OF METAL DECK.
5. R.R.C.B. = REINFORCED CONCRETE BEAM
6. C1 DENOTES 16"x16"CONCRETE COLUMN. REFER DETAIL S301/A
7. TOP OF BEAM STEEL ELEVATIONS SHOWN THUS: W18x35 (115'-4")
8. REFER TO ARCH'L & MECH'L DWS'S FOR EXACT SIZE & LOCATION OF OPENINGS.
9. UNLESS OTHERWISE NOTED, REFER TO TYPICAL DETAIL 04 ON SHEET S603 FOR ROOF SLAB REINFORCING AT SMALL MECHANICAL ROOF OPENINGS. REFER TO MECHANICAL ROOF PLANS FOR EXACT SIZE AND LOCATION OF ALL MECHANICAL OPENINGS.

COMPOSITE BEAM CALL-OUT LEGEND

PLAN NORTH

01 ROOF FRAMING PLAN - AREA D

SCALE: 3/16"=1'-0"

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1	04/22/26	ADDENDUM #1

SHEET TITLE

ROOF FRAMING PLAN - AREA D

SHEET NUMBER

S202

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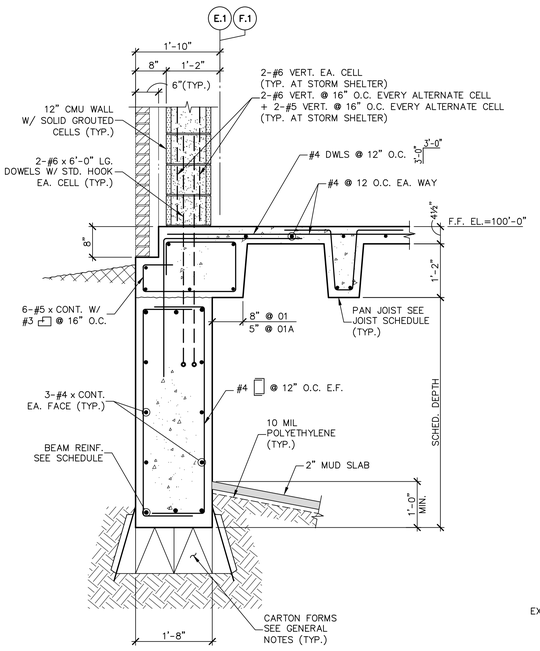

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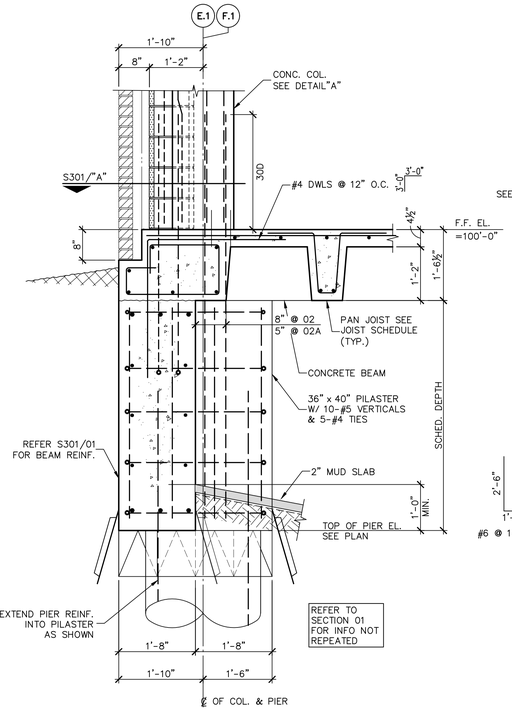

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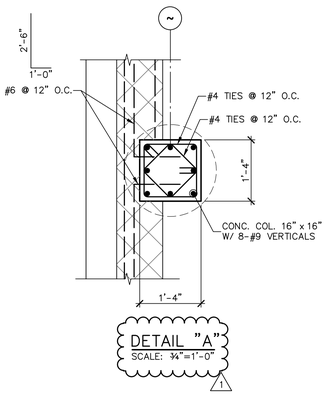

DETAIL "A"
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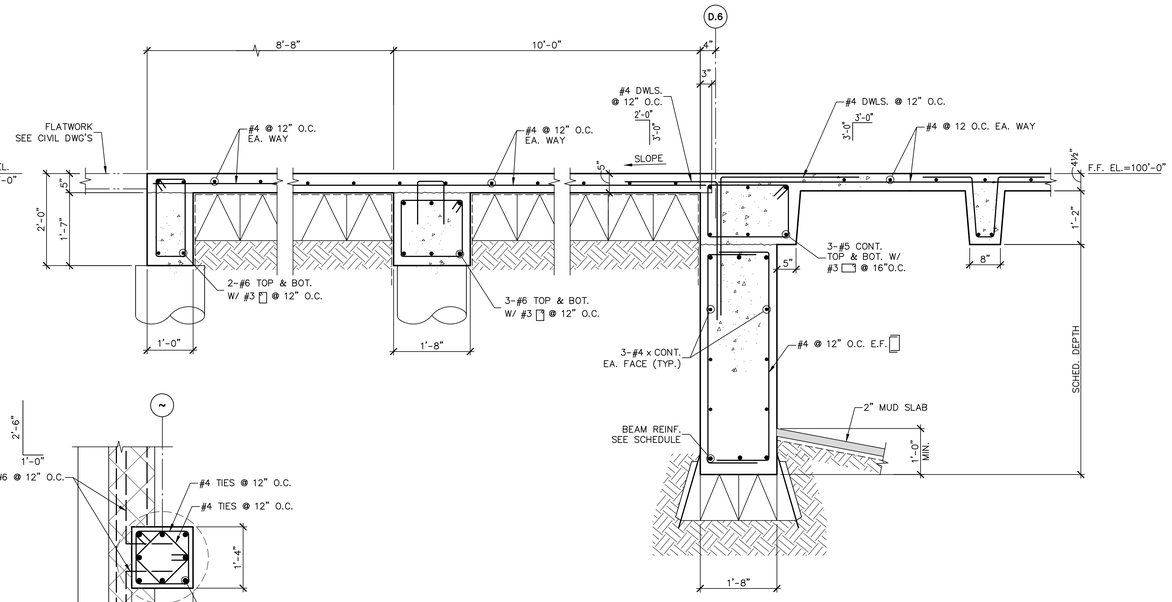

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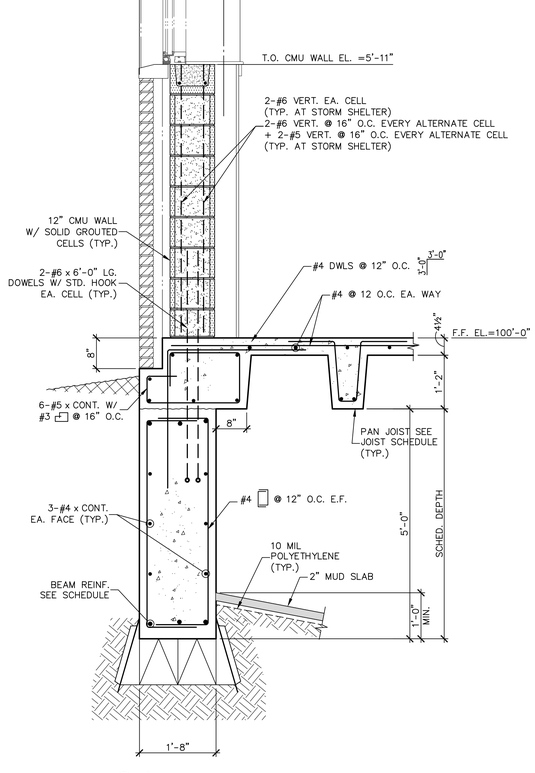

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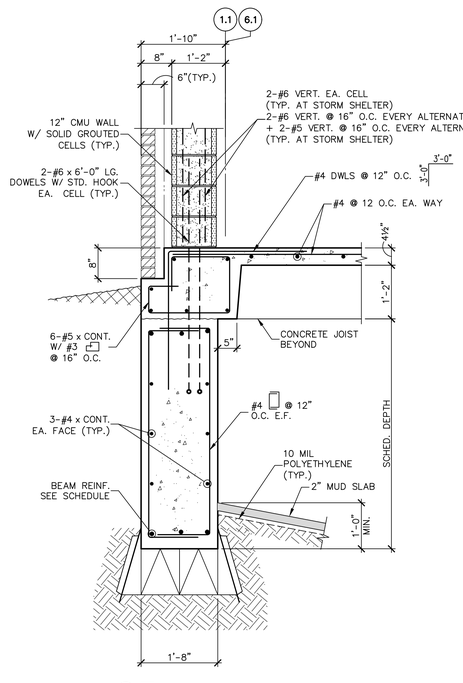

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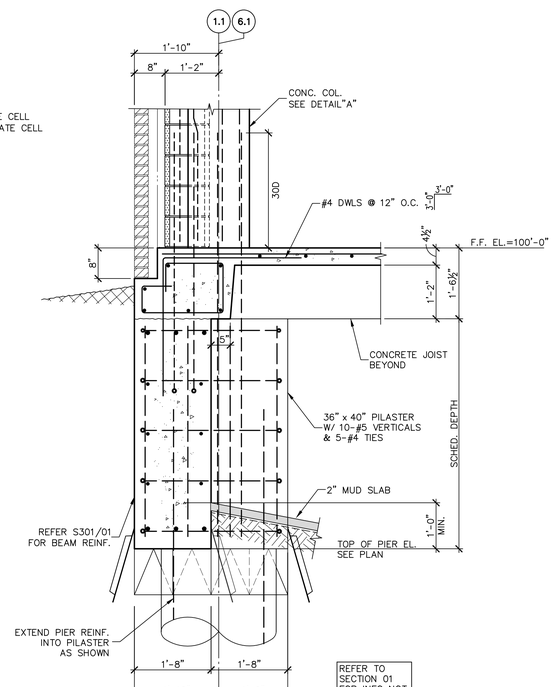

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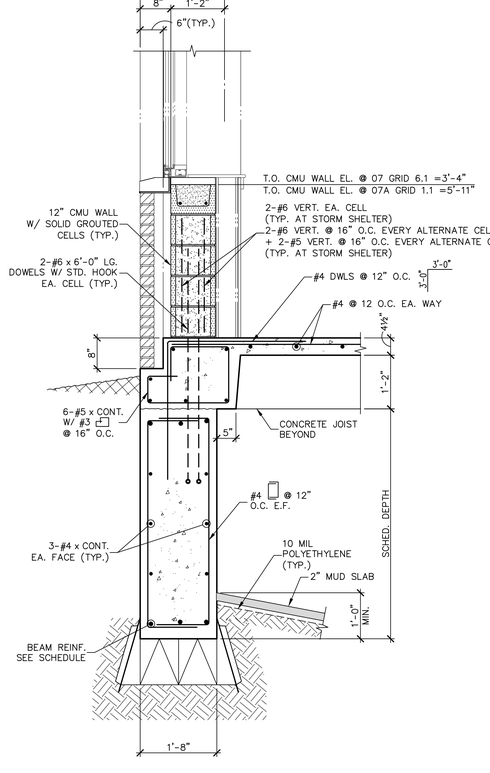

07/07A SECTION
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SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

SHEET NUMBER
S301

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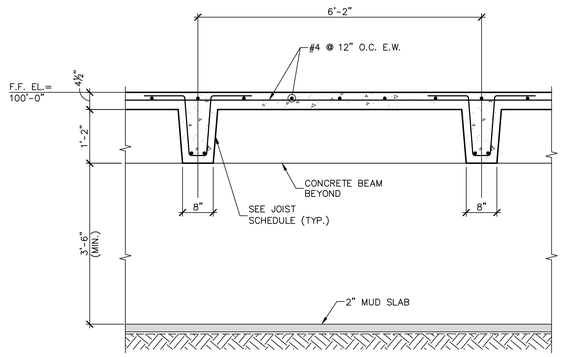

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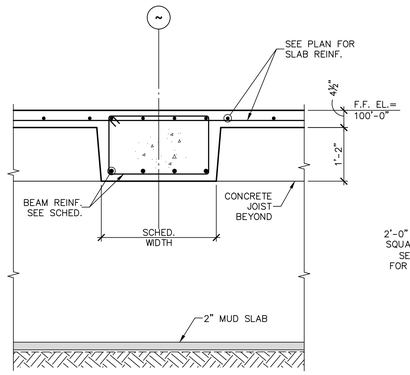

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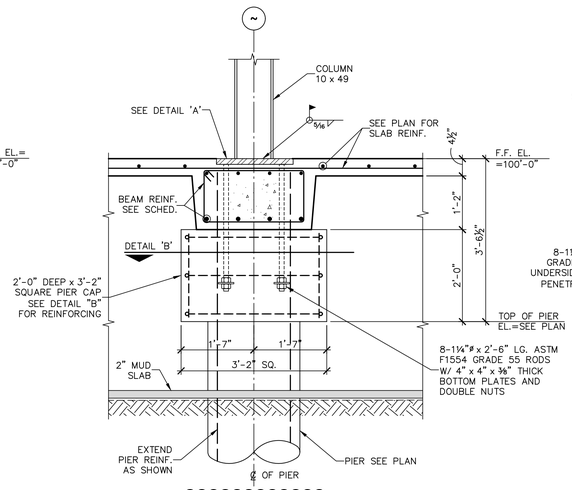

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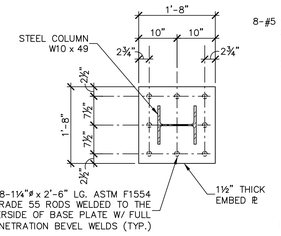

DETAIL 'A'
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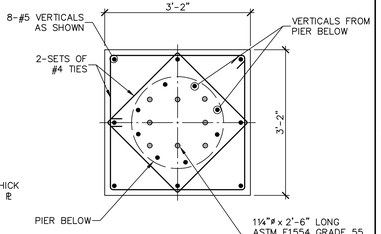

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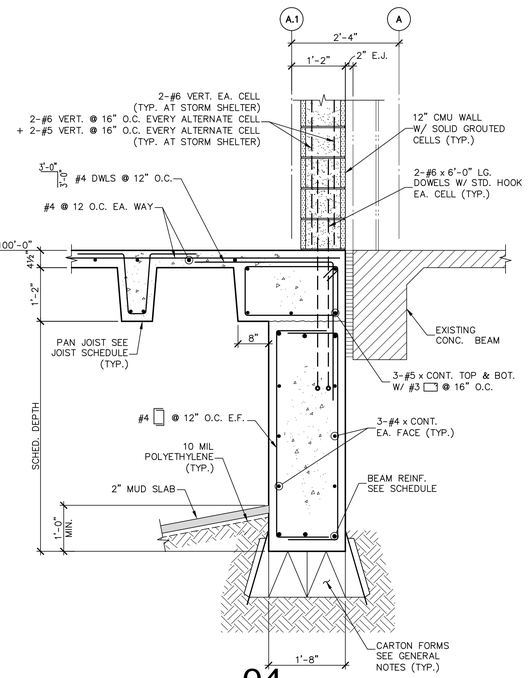

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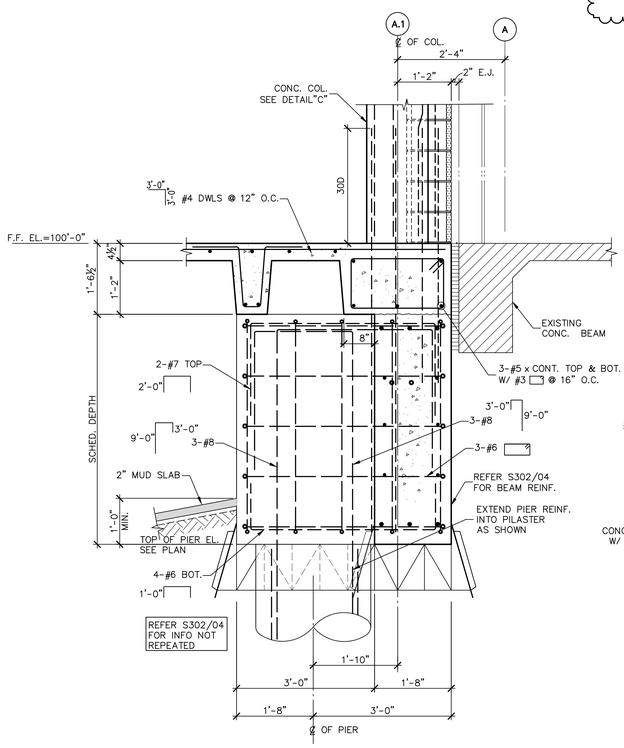

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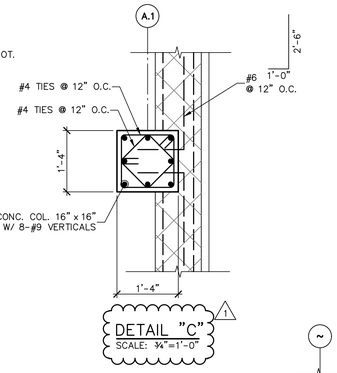

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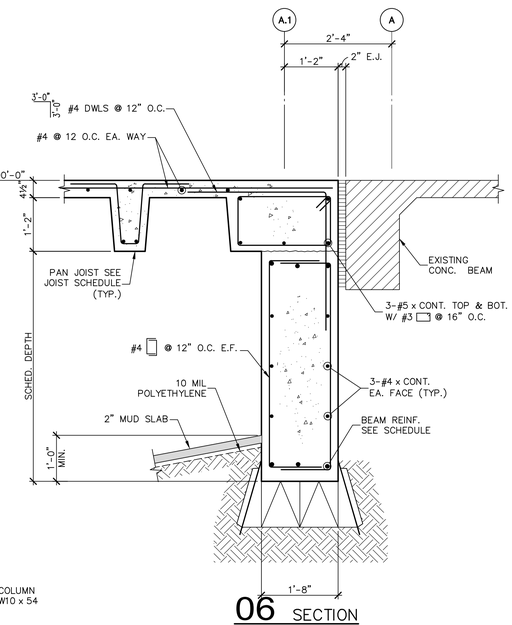

06 SECTION
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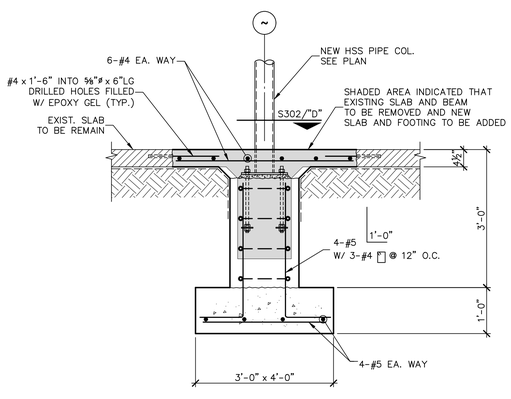

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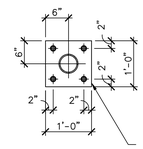

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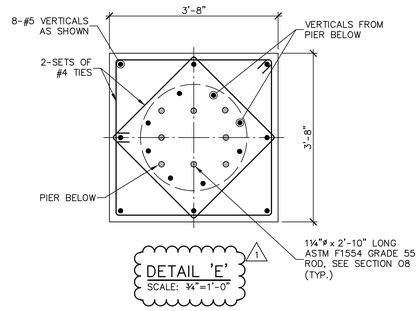

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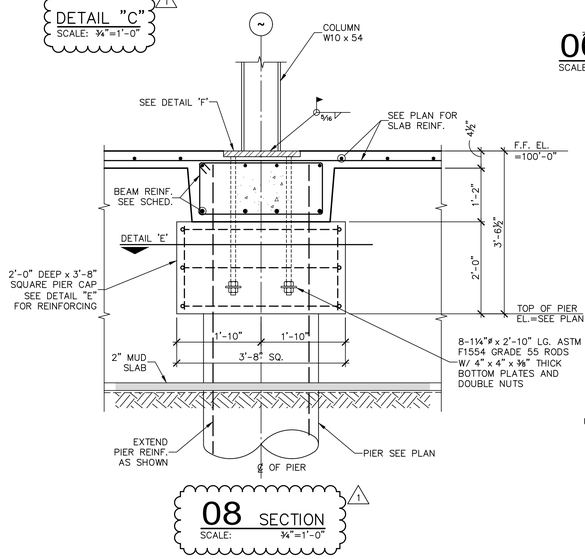

08 SECTION
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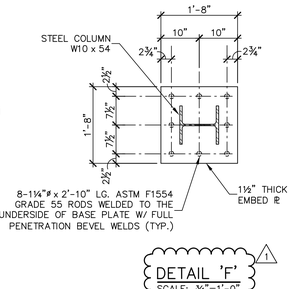

DETAIL 'F'
SCALE: ¾"=1'-0"

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SEAL

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	04/22/26	ADDENDUM #1

SHEET TITLE

FOUNDATION SECTIONS AND DETAILS

SHEET NUMBER

S302

26-105\STRUCT\26105S302.DWG / 3/4=1'-0" / APR 21, 2026 / 6:16 PM / OMDEH / 26105XRF,

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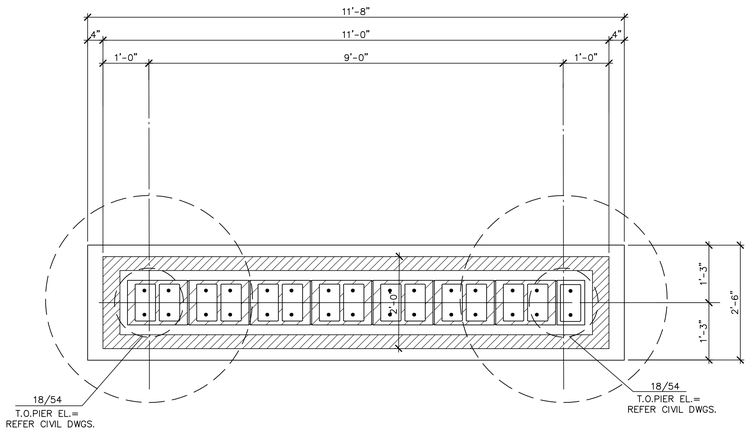
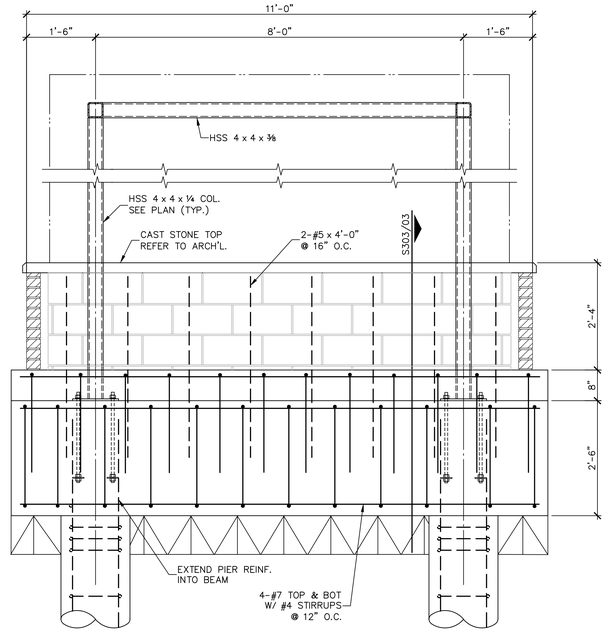
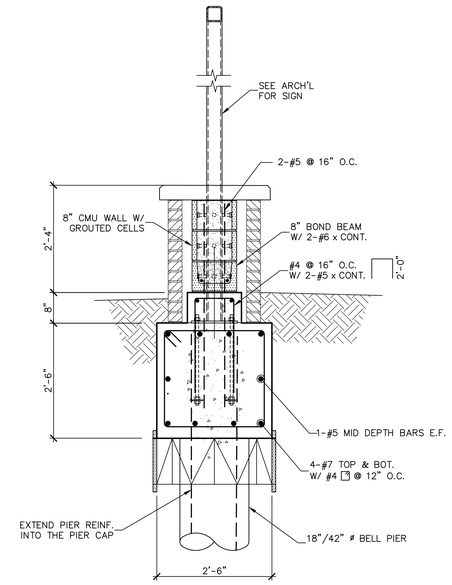


01 MARQUEE SIGN FOUNDATION PLAN
SCALE: ¾"=1'-0"



02 MARQUEE SIGN FOUNDATION SECTION
SCALE: ¾"=1'-0"



03 MARQUEE SIGN SECTION
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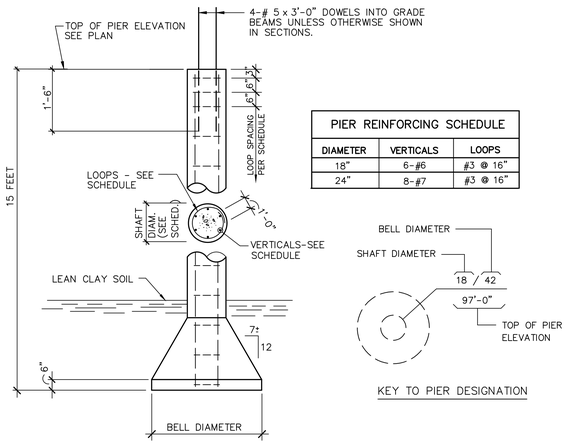

PIER REINFORCING SCHEDULE		
DIAMETER	VERTICALS	LOOPS
18"	6-#6	#3 @ 16"
24"	8-#7	#3 @ 16"

KEY TO PIER DESIGNATION

04 TYPICAL BELLED PIER DETAIL
SCALE: NO SCALE

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REVISIONS		
No.	DATE	DESCRIPTION
1	04/22/26	ADDENDUM #1

SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

SHEET NUMBER
S303

26-105\STRUCT\26105S303.DWG / 3/4=1'-0" / APR 21, 2026 / 6:40 PM / OMIDEH / 26105XRF.

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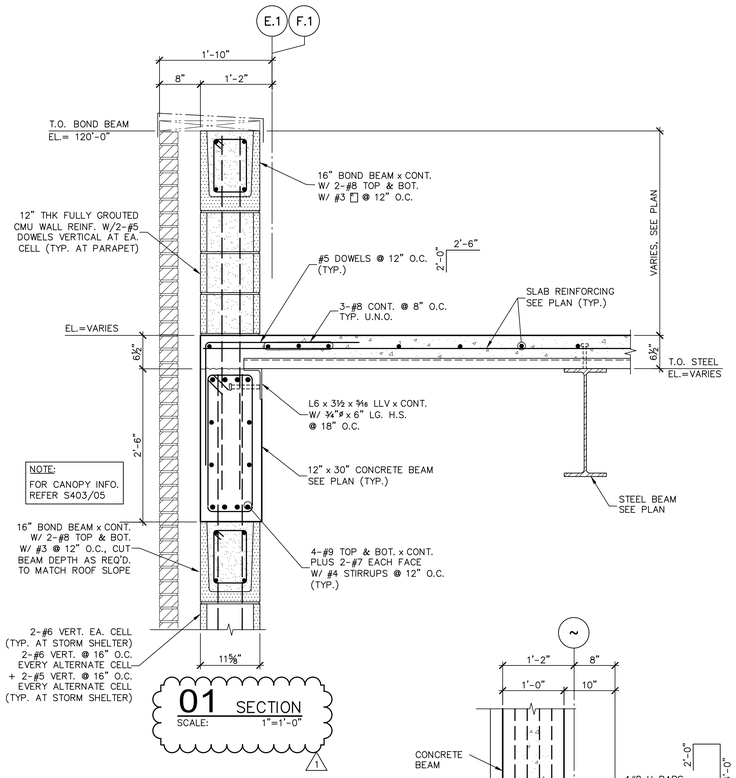

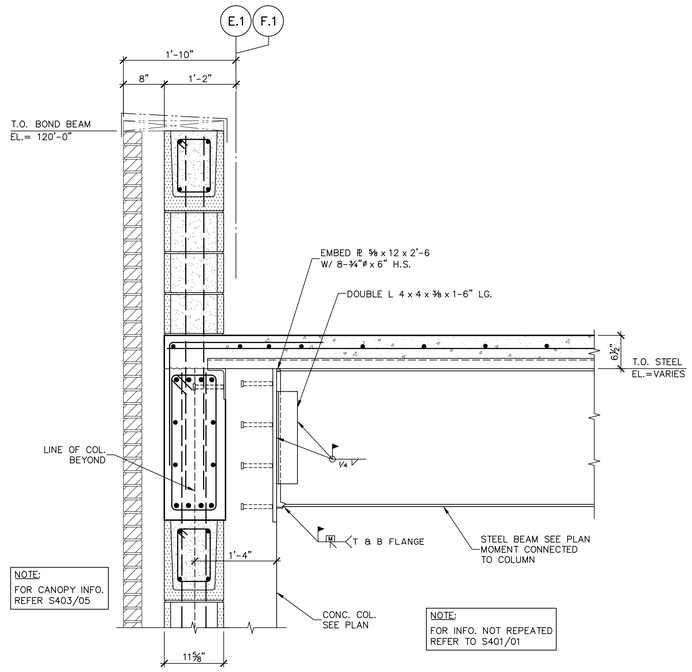

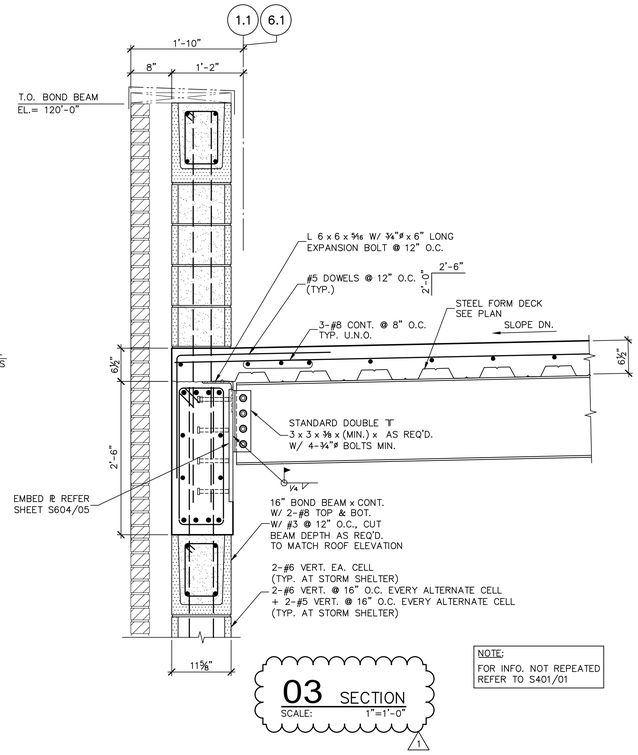

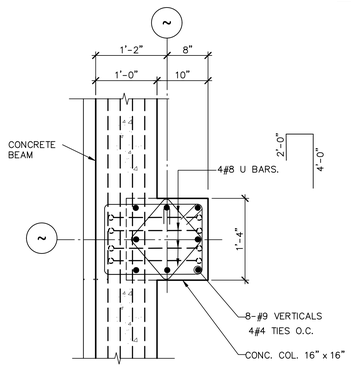

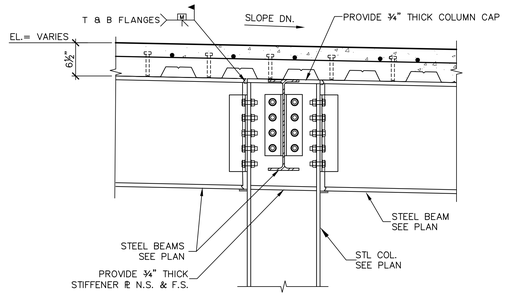

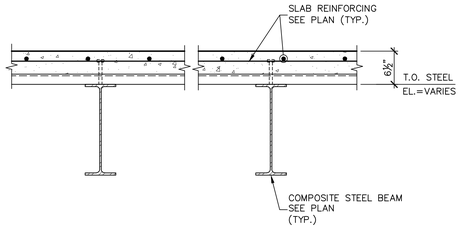

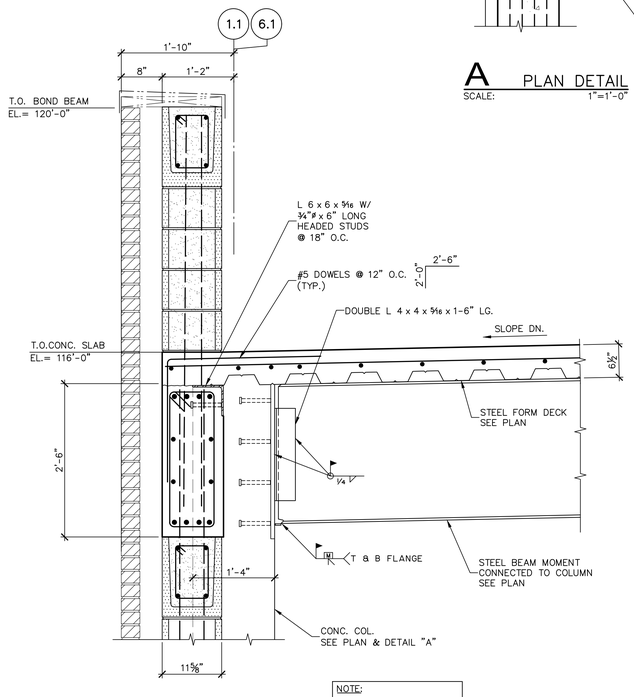

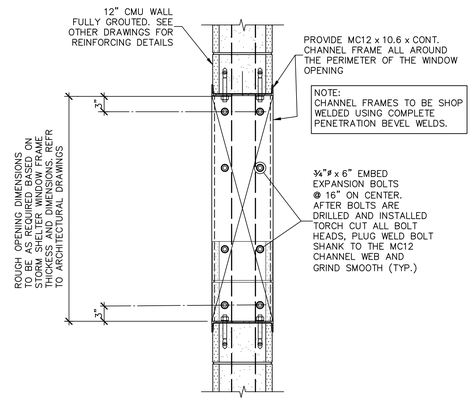

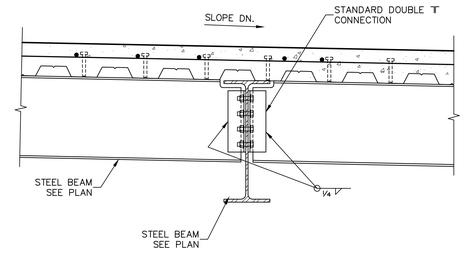

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304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

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No.	DATE	DESCRIPTION
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SHEET TITLE

FRAMING SECTIONS AND DETAILS

SHEET NUMBER

S401

26-105\STRUCT\26105S401.DWG / 1=1'-0" / APR 22, 2026 / 2:01 PM / OMIDEH / 26105XRF,

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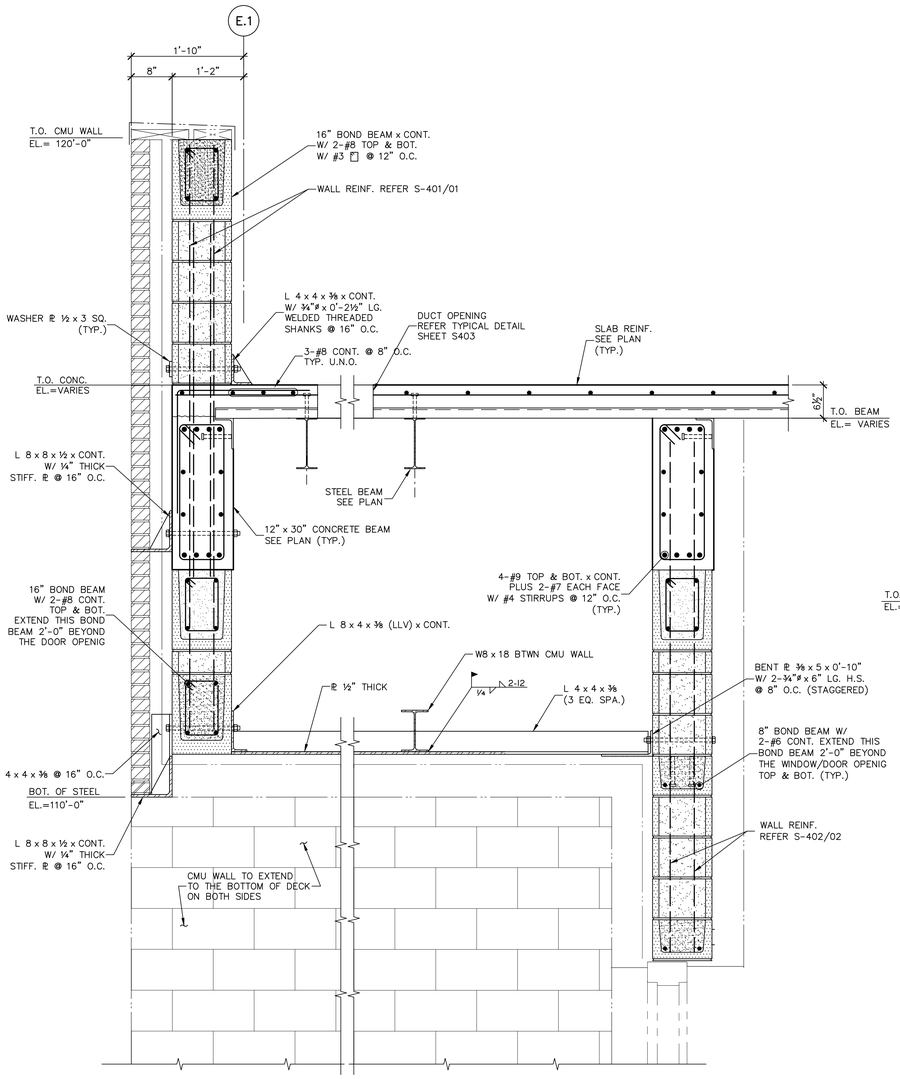

NOTE:
FOR INFO. NOT REPEATED
REFER TO S-401/01 & S402/02

01 SECTION
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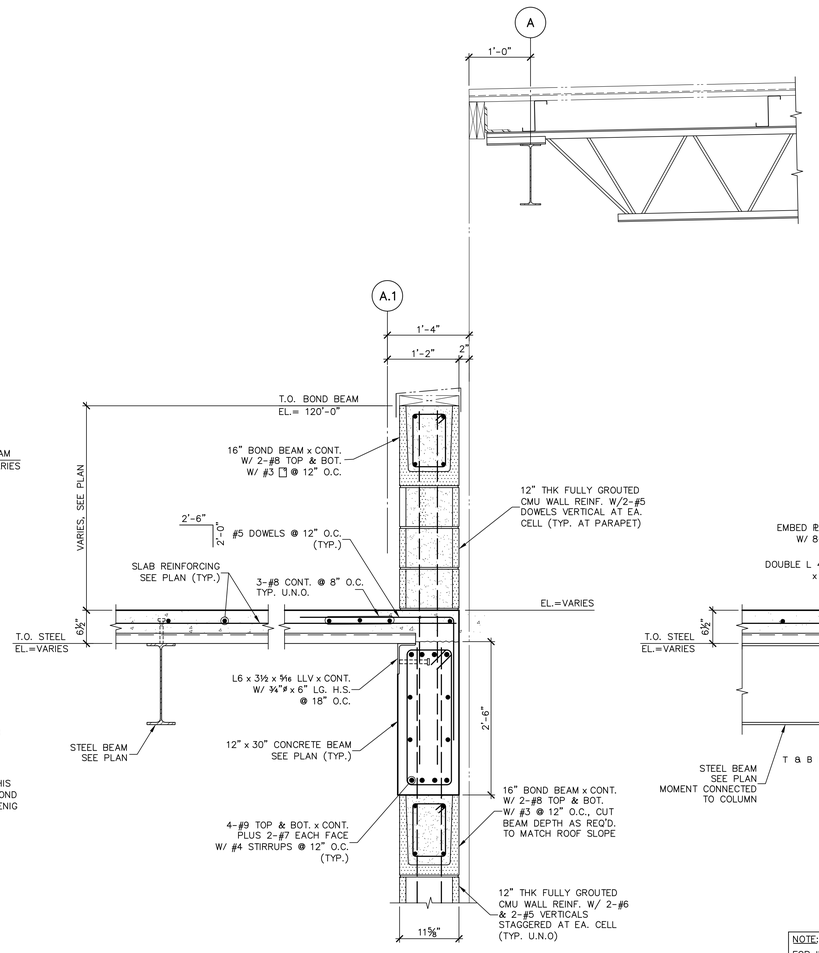

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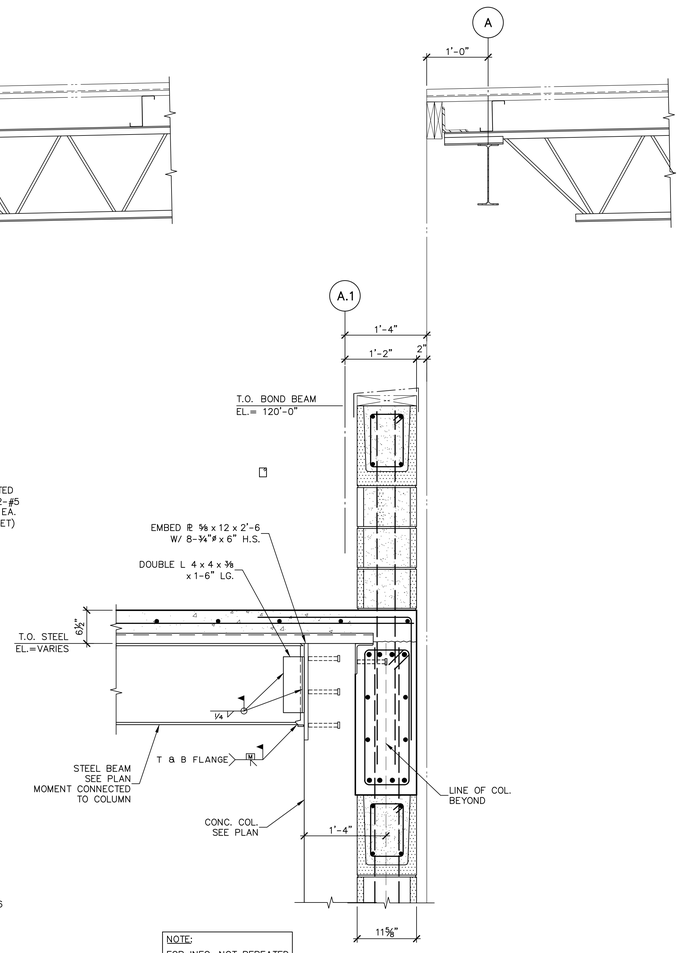

NOTE:
FOR INFO. NOT REPEATED
REFER TO S402/02

03 SECTION
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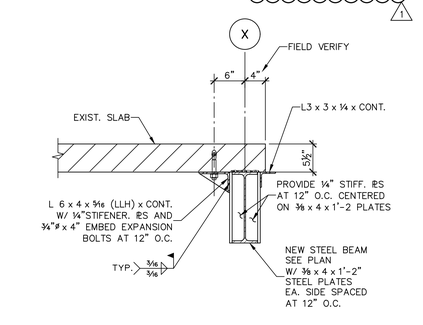

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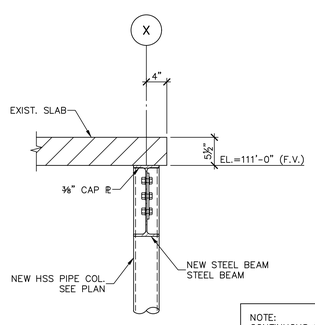
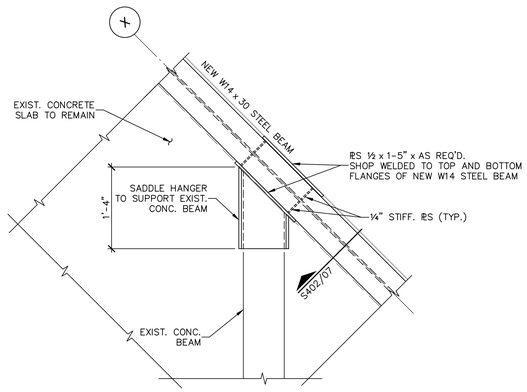
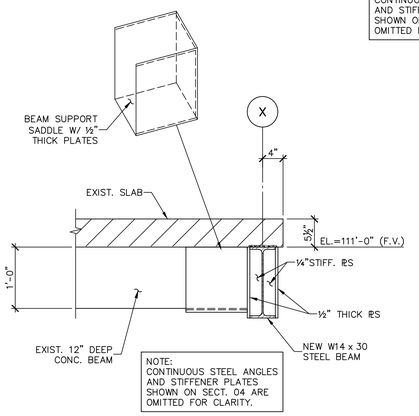


NOTE:
CONTINUOUS STEEL ANGLES
AND STIFFENER PLATES
SHOWN ON SECT. 04 ARE
OMITTED FOR CLARITY.

05 SECTION
SCALE: 1"=1'-0"



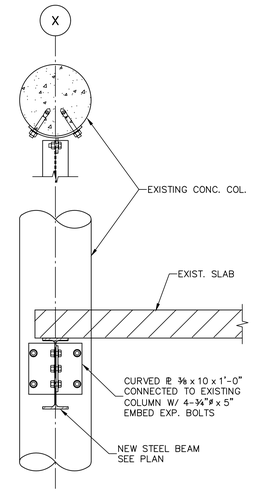
06 PLAN VIEW
SCALE: 1"=1'-0"



NOTE:
CONTINUOUS STEEL ANGLES
AND STIFFENER PLATES
SHOWN ON SECT. 04 ARE
OMITTED FOR CLARITY.

07 SECTION
SCALE: 1"=1'-0"

NOTE:
CONTINUOUS STEEL ANGLES
AND STIFFENER PLATES
SHOWN ON SECT. 04 ARE
OMITTED FOR CLARITY.



08 SECTION
SCALE: 1"=1'-0"

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DALLAS ISD 2020 BOND PROGRAM
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304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

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SHEET TITLE
FRAMING SECTIONS AND DETAILS

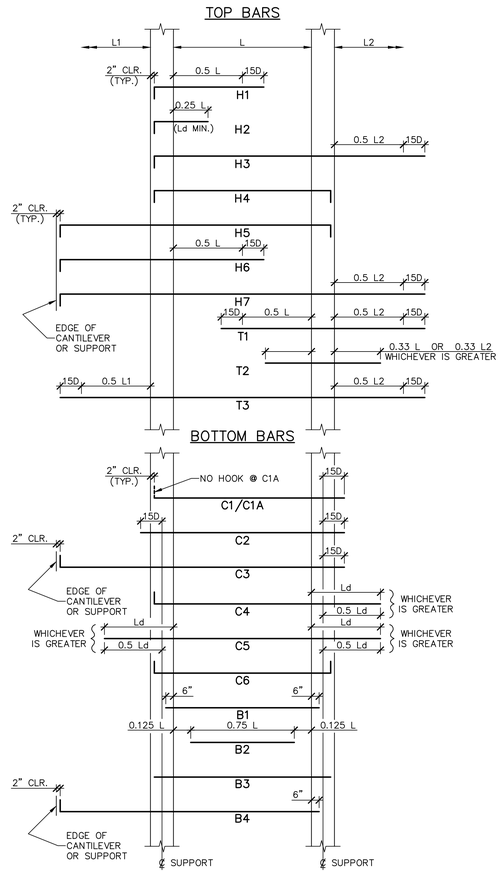
SHEET NUMBER
S402

26-105\STRUCT\26105S402.DWG / 1=1'-0" / APR 22, 2026 / 1:59 PM / OMIDEH / 26105XRF;

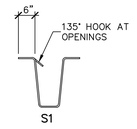
Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448

CONCRETE JOIST SCHEDULE

MARK	JOIST SIZE WIDTH (IN)	JOIST SIZE DEPTH (IN)	SLAB THICKNESS (IN)	REINFORCEMENT TOP BAR LEFT END	REINFORCEMENT BOTTOM BAR	REINFORCEMENT TOP BAR RIGHT END	REINFORCEMENT FACE REINF. (E. F.)	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END (IN)	REMARKS
J-1	8	18.5	4.5	2 # 7 H1	2 # 7 B1	2 # 7 T1 1 # 7 T2		3	S1	1@4", R@ 6"	
J-2	8	18.5	4.5		2 # 7 B1	2 # 6H1		3	S1	1@4", R@ 7"	
J-3	8	18.5	4.5	2 # 7 H1	3 # 7 B1	2 # 7 T1 1 # 7 T2		3	S1	1@4", R@ 7"	
J-4	8	18.5	4.5		2 # 7 B1	2 # 7 H1		3	S1	1@4", R@ 7"	
J-5	8	18.5	4.5	2 # 7 H1	3 # 7 B1	2 # 8 T1 2 # 8 T2		3	S1	1@4", R@ 7"	
J-6	8	18.5	4.5		3 # 7 B1	2 # 8 T1 2 # 6 T2		3	S1	1@4", R@ 7"	
J-7	8	18.5	4.5		2 # 7B1	2 # 7T1		3	S1	1@4", R@ 7"	
J-8	8	18.5	4.5		2 # 7 B1	2 # 7H1		3	S1	1@4", R@ 7"	

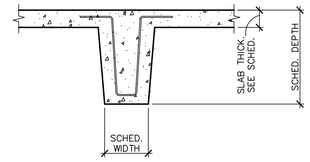


BAR PLACEMENT DIAGRAM



STIRRUPS

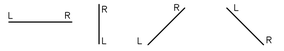
02 TYPICAL DETAIL
SCALE: NO SCALE



03 TYPICAL DETAIL
SCALE: NO SCALE

NOTES:

1. SCHEDULED LEFT AND RIGHT END OF MEMBERS ARE RELATIVE TO CALL-OUT ON PLAN. OTHERWISE LEFT AND RIGHT ON SHEET ARE AS SHOWN BELOW.



2. TURN HOOK TAILS DOWN FOR TOP BARS AND UP FOR BOTTOM BARS.
3. HOOKS FOR TOP, BOTTOM AND FACE BARS SHALL BE STANDARD HOOKS (90° OR 180°).
4. Ld = STRAIGHT TENSION DEVELOPMENT LENGTH.
5. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" IN LENGTH ARE NOT PERMITTED. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" IN LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
6. UNLESS A SPECIFIC BAR TYPE IS SHOWN IN THE SCHEDULE, FACE BARS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE MEMBER. EXTEND FACE BARS A DISTANCE OF Ld/2 PAST FROM CENTER LINE OF CONTINUOUS SUPPORTS AND PROVIDE 90° HOOKS AT DISCONTINUOUS ENDS. NUMBER OF BARS SHOWN ON SCHEDULE SHALL BE PROVIDED ON EACH FACE OF MEMBER.
7. HOOKS FOR TIES AND STIRRUPS SHALL BE FABRICATED AS REQUIRED BY ACI.
8. THE TYPE S1 STIRRUPS SHALL BE PLACED SUCH THAT THE 135 HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.

01 TYPICAL DETAIL
SCALE: NO SCALE

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SHEET TITLE

CONC. JOIST SCHEDULE & TYPICAL DETAILS

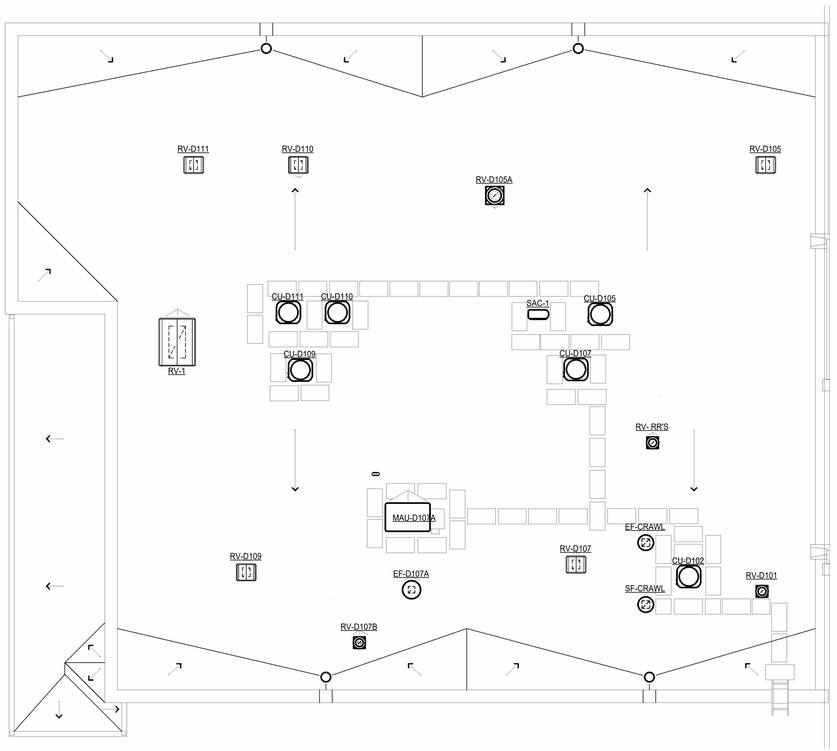
SHEET NUMBER

1

S501

26-105\STRUCT\26105S501.DWG / 3/4=1'-0" / APR 22, 2026 / 1:42 PM / OMIDEH / 26105XRF.

Docusign Envelope ID: BF0D4A93-88CA-8A96-8037-18B01CAAD448



1 M-501 Mechanical Roof Plan
SCALE: 1/8" = 1'-0"

ARCHITECT OF RECORD
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DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
SCHOOL RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED
APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	04/22/26	ADDENDUM 1

SHEET TITLE
MECHANICAL ROOF PLAN

SHEET NUMBER
M-501

4/23/2026 11:17:42 AM
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PLUMBING FIXTURE SCHEDULE

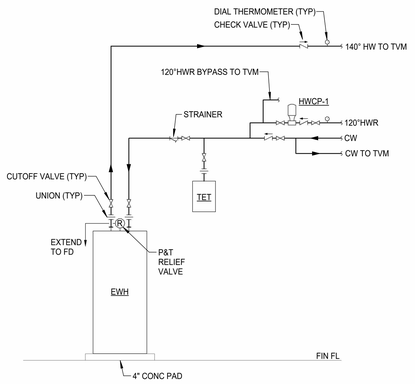
FIXTURE TYPE	DESCRIPTION	COLD WATER, IN.	HOT OR TEMPERED WATER, IN.	WASTE, IN.	VENT, IN.	FIXTURE		FAUCET / FLUSH VALVE	
						MANUFACTURER	MODEL	MANUFACTURER	MODEL
EWC-1	WATER COOLER	1/2"		2"	2"	ELKAY	LZSTL8WSLP		
HB-1	HOSE BIB	3/4"				ZURN	Z1321XL		
IMB	ICE MAKER, RECESSED	3/4"				IPS CORPORATION	MIB5AB		
L-1	LAVATORY	1/2"	1/2"	2"	2"	AMERICAN STANDARD	0355.012	DELTA	B501LF
LO-1	LAUNDRY OUTLET	1/2"	1/2"	2"	2"	GUY GRAY	MWB-20		
S-1	SINK	1/2"	1/2"	2"	2"	JUST MANUFACTURING	SLN-ADA-2131-16-GR	DELTA	400-DST-L
S-2	ART ROOM SINK	1/2"	1/2"	2"	2"	JUST MANUFACTURING	SLF2225AR-J	DELTA	400-DST-L
SH-1	ADA ROLL IN SHOWER, LEFT	1/2"	1/2"			FREEDOM SHOWERS	APFQ6333BF875 LR	FREEDOM SHOWERS	APFHHGBLS
SINK-K	KITCHEN SINK, DOUBLE BOWL	1/2"	1/2"	2"	2"	JUST MANUFACTURING	UD1832A-J	DELTA	26C3944
WC-1	VITREOUS CHINA, WALL MTD WATER CLOSET, MANUAL FLUSH VALVE, 1.28 GPF, HC	1"		4"	2"	AMERICAN STANDARD	3351.001	AMERICAN STANDARD	6047.121

ELECTRIC WATER HEATER

MARK	LOCATION	BASIS OF DESIGN	MODEL	TANK STORAGE CAPACITY, GAL.	ASME CONSTR. (Y/N)	TEMPERATURE SETTING, °F	RECOVERY AT 100°F RISE (GPH)	WATER CONNECTION	ELECTRICAL DATA		
									KW	VOLTAGE, V	PHASE
EWH-1	D102 - MECHANICAL	A.O. SMITH	DEN-80-6KW	80	Y	140	24	3/4"	6 W	208 V	3

EXPANSION TANK

MARK	DESCRIPTION	CAPACITY, GALLONS	ACCEPTANCE VOL., GALLONS	CONNECTION	MANUFACTURER	MODEL	DIMENSIONS, IN. DIA. x HEIGHT	QUANTITY
TET-1	THERMAL EXPANSION TANK	2.0	0.9	3/4"	AMTROL	ST-5-C	DIAPHRAGM	1



CONNECTIONS TO ELECTRIC WATER HEATER

NO SCALE

DOMESTIC HOT WATER CIRCULATING PUMP

MARK	SYSTEM	BASIS OF DESIGN	MODEL	TYPE	CAPACITY, GPM	PUMP HEAD, FT H20	CONNECTION SIZE	MOTOR DATA		
								HP	VOLTAGE, V	PHASE
HWCP-1	DOMESTIC HOT WATER	BELL & GOSSETT	ECOCIRC 19-16	INLINE	1.5	10	0" - 0 3/4"	0.02	115	1

GREASE INTERCEPTOR

MARK	LOCATION	BASIS OF DESIGN	TANK MATERIAL	INLET CONNECTION	OUTLET CONNECTION	CAPACITY, GAL.
GI-1	EXTERIOR	CLEARFLOW W / SAMPLE BOX	CONCRETE	3"	4"	1000

CLEANOUT AND DRAIN SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	BODY TYPE	GRATE FINISH / TYPE
ECO	EXTERIOR CLEANOUT	JOSAM 55000-1-SD-22	CAST IRON	NIKALOY
FCO-A	FINISHED FLOOR CLEANOUT	JOSAM 55000-1-22	CAST IRON	NIKALOY
FD AREA	GENERAL AREA DRAIN	JOSAM	CAST IRON	NIKALOY
FD-A	FLOOR DRAIN	JOSAM	CAST IRON	NIKALOY
FS-1	FLOOR SINK	JOSAM	CAST IRON	SUPER-FLO
PD-1	PLANTING AREA DRAIN	ZURN	CAST IRON	CAST IRON
S.R.R.D	STORM RATED ROOF DRAIN	CYCLONE	CARBON STEEL	DOME
TRENCH DRAIN	TRENCH DRAIN	ZURN	CAST IRON	CAST IRON

NOTE:
PROVIDE JAY R. SMITH FLOOR DRAIN TRAP SEAL ON FLOOR DRAINS.

TEMPERING VALVE SCHEDULE

MARK	DESCRIPTION	BASIS OF DESIGN	ASSE NO.	INLET CONNECTION	OUTLET CONNECTION	RETURN TO HEATER CONNECTION	MAX PRESSURE DROP, PSI	AT FLOW RATE, GPM	MINIMUM FLOW RATE	TEMPERATURE SETTING, °F
TVM-1	TEMPERING VALVE MANIFOLD	ARMSTRONG DRV25R	1017	3/4"	1"	3/4"	20	30	0.5	110

CLAY TRAP SCHEDULE

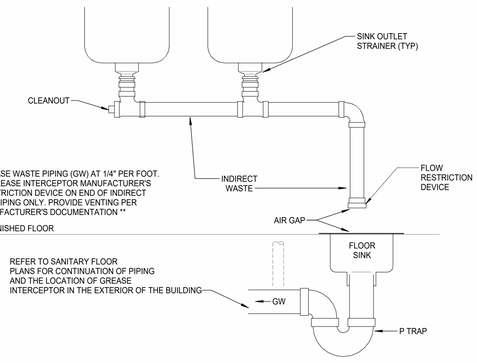
MARK	LOCATION	MANUFACTURER	MODEL
C-TRAP	ART ROOM	PRACTICON	GLECO TRAP

SHOCK ABSORBER SCHEDULE

MARK	PIPE SIZE	FIXTURE UNITS	CROSS REF. PDI WH201
SA-A	1/2"	1 - 11	A
SA-B	3/4"	12 - 32	B

HOSE BIB AND HYDRANT SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	COLD WATER, IN.
HYDRANT	ROOF HYDRANT	PRIER- PRH2	3/4"



GREASE INTERCEPTOR (GI-1) INSTALLATION DETAIL

NO SCALE

GENERAL NOTES

1. (E) EXISTING CONDITIONS SHOWN ARE BASED ON ORIGINAL CONSTRUCTION DOCUMENTS AVAILABLE FOR THE FACILITY, AND ARE PROVIDED IN THIS SET OF DRAWINGS AS AN AID TO THE CONTRACTOR. SITE CONDITIONS MUST BE FIELD VERIFIED. VERIFY THE EXISTING CONDITIONS INCLUDING INVERTS OF PIPE TO REMAIN BEFORE INSTALLATION OF NEW WORK, AND NOTIFY THE ARCHITECT / ENGINEER OF CONDITIONS DISCOVERED THAT PROHIBIT INSTALLATION OF THE WORK AS INDICATED.
2. (E) EXISTING PIPING BELOW SLAB ON GRADE SHOWN AS DEMOLISHED IS TO BE ABANDONED IN PLACE WHERE NEW CONSTRUCTION DOES NOT REQUIRE REMOVAL OF FLOOR SLAB. WHERE FLOOR IS REMOVED FOR CONSTRUCTION, PIPE SHOWN AS DEMOLISHED MUST BE REMOVED. PIPE ABANDONED IN PLACE MUST BE PERMANENTLY CAPPED A MINIMUM OF 4" BELOW FINISHED FLOOR USING CAPS THAT ARE APPROVED FOR USE WITH PIPE AND PERMANENT CONCEALED USE.
3. (E) WHERE DIRECTED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR IS TO CAP AND SEAL AIR-TIGHT ALL EXISTING DRAIN, WASTE AND VENT (DWV) PIPING TO REMAIN IN PLACE FOR ALL DEMOLITION AND NEW WORK REQUIREMENTS, WHETHER EXPOSED ABOVE CEILING OR CONCEALED WITHIN WALLS AND/OR CHASES FOR A COMPLETELY SEALED SANITARY DWV SYSTEM. THE CONTRACTOR IS TO CAP ALL PIPING IMMEDIATELY AFTER DEMOLITION WORK AT EACH OCCURRENCE WITHOUT EXCEPTION. PRIOR TO CONCEALING PIPING BEHIND WALLS, CHASES AND/OR WITHIN CEILINGS, AND PRIOR TO REQUESTS TO THE ARCHITECT / ENGINEER FOR ABOVE CEILING INSPECTIONS, THE CONTRACTOR IS TO PROVIDE THE REQUIRED TESTING AND REPORTS PER SECTION 221316 "SANITARY WASTE AND VENT PIPING" TO DEMONSTRATE AND CERTIFY THAT THE WASTE PIPING SYSTEM IS COMPLETELY SEALED AIR-TIGHT, WITHOUT LEAKS AND/OR ODORS AND THAT THE REQUIRED INSPECTIONS AND REPORTS ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. (E) PATCH HOLES IN FLOOR SLABS, WALLS AND ROOF LEFT BY DEMOLISHED PIPING.
5. (E) PATCH FLOOR SLAB ACCORDING TO STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO ARCHITECTURAL FOR FLOOR COVERING REQUIREMENTS.
6. (E) THE PLUMBING WORK WILL BE EXECUTED IN PHASES. DURING DEMOLITION PHASE OF AN AREA, MATERIALS AND EQUIPMENT LOCATED THERE THAT SERVE OTHER OCCUPIED SPACES OF THE BUILDING MAY NOT BE DEMOLISHED OR TAKEN OUT OF SERVICE UNTIL NEW OR TEMPORARY MATERIALS AND EQUIPMENT ARE PLACED IN SERVICE TO CONTINUE NORMAL FUNCTIONS IN THE OCCUPIED SPACES.
7. PROVIDE PIPING SYSTEM CONNECTIONS TO FIXTURES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE SITE CONDITIONS, INCLUDING BENDS AND OFFSETS THAT MAY NOT BE INDICATED.
8. BELOW GRADE PIPING SYSTEMS ROUTED BEYOND THE BUILDING EXTERIOR WALL ARE TO BE EXTENDED A MINIMUM OF FIVE FEET (5 FT) BEYOND EXTERIOR WALL FACE, AND BE TEMPORARILY CAPPED FOR TESTING. REFER TO CIVIL/SITE DOCUMENTS FOR CONTINUATION OF PIPING SYSTEMS.
9. PROVIDE SUPPORT FOR PIPING BELOW GRADE ACCORDING TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL PLUMBING CODE SECTION 306.
10. SLOPE HORIZONTAL PIPE AS FOLLOWS UNLESS NOTED OTHERWISE: SANITARY DRAINAGE SIZES 3" AND LARGER - 1/8" / 1' 0" SANITARY DRAINAGE SIZES 2" AND SMALLER - 1/4" / 1' 0" SANITARY VENT - SLOPE TO DRAINAGE STACK, NO LOW POCKETS GREASE WASTE DRAINAGE - 1/4" / 1'0" STORM DRAINAGE - 1/8" / 1' 0" UNLESS NOTED OTHERWISE.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND CONDITIONS, AND COORDINATE THE WORK WITH ALL DISCIPLINES.
12. PROTECT TRAP SEALS OF FLOOR DRAINS, FLOOR SINKS AND STANDPIPE TRAPS THAT DO NOT RECEIVE WASTE FROM NORMAL OPERATION OF FIXTURES OR EQUIPMENT.
13. PROVIDE PANELS FOR ACCESS TO VALVES AND EQUIPMENT CONCEALED IN WALLS AND CEILINGS. CEILING PANELS MAY BE OMITTED WHERE SUSPENDED CEILING TILES ARE REMOVABLE AND PROVIDE A MINIMUM ACCESS OPENING OF 24" x 18".
14. PROVIDE LINE SIZE WALL CLEANOUTS (WCO) AT THE BASE OF DRAINAGE STACKS PENETRATING SLAB ON GRADE. LOCATE CENTER OF WCO COVER A MINIMUM OF 10" ABOVE FINISHED FLOOR LEVEL. REFER TO "CLEANOUT AT BASE OF STACK" DETAIL.
15. LOCATE SANITARY VENT TERMINATIONS A MINIMUM OF 10 FEET HORIZONTALLY FROM AIR INTAKES OR INTAKE LOUVERS, OR 3 FEET ABOVE. IN ACCORDANCE WITH 2018 INTERNATIONAL PLUMBING CODE SECTION 903.5.
16. PROVIDE TEMPORARY PIPE CAPS ON OPEN PIPE ENDS DURING CONSTRUCTION. PREVENT DEBRIS FROM ENTERING PIPING SYSTEM AT ALL TIMES.

PLUMBING GENERAL NOTES

1. INSTALLATION AND MATERIALS SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND AUTHORITY HAVING JURISDICTION.
2. THE DESIGN IS BASED ON MANUFACTURERS AND MODELS INDICATED, AND IS INTENDED TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND/OR SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDINGS/SYSTEMS. SEE SPECIFICATIONS SECTIONS FOR TECHNICAL REQUIREMENTS.
3. REFER TO CIVIL DRAWINGS FOR LOCATIONS AND INVERT ELEVATIONS OF WATER SUPPLY, SANITARY DRAIN AND STORM DRAIN LINES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.

PLUMBING INSTALLATION

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING PIPING, MANHOLES, ETC. BEFORE ANY NEW PIPING IS INSTALLED.
2. SLOPES AND INVERT ELEVATIONS OF SEWERS, MANHOLES, GREASE INTERCEPTORS, ETC., SHALL BE ESTABLISHED AND VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
3. UNDERGROUND SANITARY AND STORM SEWER PIPING EXITING THE BUILDING SHALL BE CAST IRON OR SCHEDULE 40 PVC TO AT LEAST 5'-0" OUTSIDE THE BUILDING WALL UNLESS INDICATED OTHERWISE.
4. ALL FLOOR DRAINS SHALL HAVE STANDARD 3" SEAL, CAST IRON, P-TRAPS IN ACCORDANCE WITH THE PLUMBING CODE. FLOOR DRAINS IN KITCHENS, MECHANICAL ROOMS AND JANITOR CLOSETS SHALL BE PROVIDED WITH TRAP PRIMERS. ALL OTHER FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS.
5. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL RAIN CONDUCTORS, SOIL STACKS, WASTE STACKS, AND ON THE FIRST FIXTURE OF ALL HORIZONTAL BRANCH DRAINS.
6. PLUMBING PIPING ABOVE FINISHED FLOOR SHALL BE RUN AS HIGH AS POSSIBLE, BELOW AND AVOIDING DUCTWORK AS APPLICABLE FOR ACCESSIBILITY AND MAINTENANCE.
7. SLEEVE AND FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED CEILINGS, FLOORS OR WALLS IN ORDER TO THE MAINTAIN THE FIRE RATING INTEGRITY. SLEEVE AND CAULK ALL PENETRATIONS THROUGH NON-FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRESTOPPING DETAILS AND DETAILS OF PENETRATIONS THROUGH NON-FIRE RATED FLOORS AND WALLS.
8. PROVIDE 1/8"x 4"x 20" STEEL PLATES FOR HOLDING SUPPORTING BOLTS FOR WALL HANGERS ON LAVATORIES. PLATE TO BE INSTALLED IN WALL CONSTRUCTION BEHIND FIXTURES.
9. FLUSH VALVE ACTUATORS FOR ACCESSIBLE WATER CLOSETS SHALL BE INSTALLED ON THE OPEN SIDE OF THE TOILET COMPARTMENT IN ACCORDANCE WITH ICC/ANSI A117.1, SECTION 604.6 AND 2010 STANDARDS FOR ACCESSIBLE DESIGN.
10. NO BACKFLOW PREVENTERS SHALL BE INSTALLED IN CEILING. INSTALL BETWEEN 3 AND 5 FEET ABOVE FINISHED FLOOR.
11. PROVIDE APPROVED CHECK VALVE IN ALL WATER SUPPLIES TO MOP BASINS.
12. PROVIDE APPROVED VACUUM BREAKERS FOR ALL WATER SUPPLIES WITH HOSE CONNECTIONS.
13. ALL CUTOFF VALVES, SHOCK ABSORBERS, ETC. SHALL BE ACCESSIBLE THROUGH AN ACCESS DOOR OR THROUGH LAY-IN CEILING. PROVIDE ACCESS DOOR WHERE REQUIRED.
14. MAKE PROPER HOT & COLD WATER, HOT WATER RETURN, WASTE, VENT, GAS, ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
15. ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE EASILY ACCESSIBLE. CONTRACTOR SHALL VERIFY ALL FLOOR DRAINS AND FLOOR CLEANOUTS ARE FLUSH WITH FINISHED FLOOR, CLEAR OF ANY DEBRIS AND CLEAR OF ANY FLOOR FINISHES OR SURFACES.
16. PROVIDE ALL SEISMIC BRACING AND RESTRAINTS AS REQUIRED PER THE INTERNATIONAL BUILDING CODE SEISMIC DESIGN CATEGORY C. REFER TO STRUCTURAL DRAWINGS - DESIGN LOADS AND FACTORS FOR FURTHER DETAIL. SUBMIT SHOP DRAWINGS, SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION, OF ALL SEISMIC APPURTENANCES OF REVIEW PRIOR TO FABRICATION.

PLUMBING COORDINATION

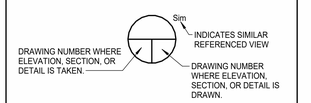
1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION OF ANY NEW PIPING OR EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE WORK OF OTHER TRADES (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, ARCHITECTURAL, CIVIL, FIRE SUPPRESSION, FIRE ALARM, MECHANICAL, ELECTRICAL, AND FOOD SERVICE/KITCHEN CONSULTANT) AS IT AFFECTS THE PLUMBING WORK, AND AS THE PLUMBING CONTRACTOR'S WORK AFFECTS OTHER TRADES TO ENSURE THAT THE CONSTRUCTION DOCUMENTS ARE CLOSELY FOLLOWED. WHERE DISCREPANCIES ARISE, THEY SHALL BE REFERRED TO THE A/E PRIOR TO PROCEEDING FURTHER.
2. CONTRACTOR SHALL COORDINATE ALL FOOTING AND FOUNDATION ELEVATIONS WITH PIPING PRIOR TO UNDERGROUND PIPING LAYOUT.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES TO VERIFY EXACT LOCATION AND MOUNTING HEIGHTS.
4. COORDINATE ALL FLOOR DRAIN AND OPEN SIGHT DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT AND HOUSEKEEPING PADS IN MECHANICAL SPACES.
5. COORDINATE PLUMBING RISERS WITHIN WALLS WITH WALL CONSTRUCTION AND OTHER TRADES.
6. CONTRACTOR SHALL COORDINATE FLUSH VALVE HEIGHTS WITH GRAB BARS AND SHALL MAKE ALL NECESSARY MODIFICATIONS TO FLUSH VALVES TO ENSURE THEY FIT WITH GRAB BAR MOUNTING HEIGHTS.
7. ALL VENT TERMINALS ABOVE ROOF SHALL BE A MINIMUM OF 25'-0" AWAY FROM HVAC UNITS, AIR INTAKE, FRESH AIR INTAKE LOUVERS AND OUTSIDE EQUIPMENT SCREENS.
8. EXISTING DOMESTIC WATER AND SANITARY SYSTEMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION TO MAINTAIN SCHOOL OPERATIONS. CONTRACTOR SHALL PHASE THE WORK ACCORDINGLY AND PROVIDE TEMPORARY MEASURES AS REQUIRED TO PREVENT SERVICE INTERRUPTIONS. NEW SANITARY AND WATER SYSTEMS SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO ANY SHUTDOWN. FINAL CONNECTION (SWITCHOVER) SHALL BE COORDINATED WITH THE OWNER AND SCHOOL DISTRICT AND SHALL OCCUR ONLY DURING APPROVED OFF-HOURS.

PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

TYPICAL PIPING	TEE OR ELBOW FROM TOP OF MAIN	
BRANCH FROM	TOP OF MAIN	
	BOTTOM OF MAIN	
	SIDE OF MAIN	
RISER	IN PLAN	
	DIAGRAMMATIC	
COLD WATER		DCW
HOT WATER		DHW
HOT WATER RETURN		DHWR
TEMPERED WATER		DTW
SANITARY SOIL & WASTE		SAN
SANITARY VENT		V
STORM SEWER		SD
SECONDARY STORM SEWER		SSD
LOW PRESSURE NATURAL GAS		LPG
MEDIUM PRESSURE NATURAL GAS		MPG
DIRECTION OF SLOPE DOWN		
DIRECTION OF FLOW		
CUTOFF VALVE (IN PLAN)		
CUTOFF VALVE (IN VERTICAL)		CV
GLOBE VALVE		
CHECK VALVE		
BALANCING COCK		
GAS COCK		
BACKFLOW PREVENTER		BFP
TEMPERING VALVE		
CLEAN-OUT		CO
SHOCK ABSORBER		SA
STRAINER		
CONNECT TO EXISTING		
EXTENT OF DEMOLITION		
NEW WORK		
EXISTING WORK TO REMAIN		
EXISTING WORK TO BE REMOVED		

AAV	- AUTOMATIC AIR VENT	HB	- HOSE BIBB
ABV	- ABOVE	HW	- HOT WATER
AD	- ACCESS DOOR	HWCP	- HOT WATER CIRCULATION PUMP
ADA	- AMERICANS WITH DISABILITIES ACT	HWR	- HOT WATER RETURN
AT	- ACID NEUTRALIZING TANK	IMB	- ICE MAKER BOX
BEL	- BELOW	INV	- INVERT
BFF	- BELOW FINISHED FLOOR	L	- LAVATORY
BFG	- BELOW FINISHED GRADE	LO	- LAUNDRY OUTLET
BFP	- BACKFLOW PREVENTER	LPG	- LOW PRESSURE GAS
CFH	- CUBIC FEET PER HOUR	MB	- MOP BASIN
CI	- CAST IRON	MPG	- MEDIUM PRESSURE GAS
CLG	- CEILING	OSD	- OPEN SITE DRAIN
CO	- CLEAN-OUT	OWS	- OIL/WATER SEPARATOR
CONC	- CONCRETE	PVC	- POLYVINYL CHLORIDE
CV	- CUTOFF VALVE	P&T	- PRESSURE & TEMPERATURE RELIEF VALVE
CW	- COLD WATER	RD	- ROOF DRAIN
DF	- DRINKING FOUNTAIN	SA	- SHOCK ABSORBER
DFU	- DRAINAGE FIXTURE UNIT	SAN	- SANITARY
DI	- DUCTILE IRON	SD	- STORM SEWER
DISP	- DISPOSER	SDN	- SECONDARY DISCHARGE NOZZLE
DN	- DOWN	SF	- SQUARE FEET
E	- EXISTING TO REMAIN	SH	- SHOWER
ECO	- EXTERIOR CLEAN-OUT	SI	- SOLIDS INTERCEPTOR
ELEV	- ELEVATION	SP	- SUMP PUMP
EWC	- ELECTRIC WATER COOLER	SRRD	- STORM RATED ROOF DRAIN
EWH	- ELECTRIC WATER HEATER	SD	PRIMARY STORM DRAIN
EXIST	- EXISTING	SSD	SECONDARY STORM DRAIN
FD	- FLOOR DRAIN	ST	- STORAGE TANK
FL	- FLOOR	TET	- THERMAL EXPANSION TANK
FM	- FIRE MAIN	TP	- TRAP PRIMER
FS	- FLOOR SINK	TV	- TEMPERING VALVE
G	- GAS	TW	- TEMPERED WATER
GI	- GREASE INTERCEPTOR	UR	- URINAL
GM	- GAS METER	UNO	- UNLESS NOTED OTHERWISE
GR	- GAS REGULATOR	V	- VENT
GT	- GREASE TRAP	VB	- VACUUM BREAKER
GW	- GREASE WASTE	VTR	- VENT-THRU-ROOF
GWH	- GAS WATER HEATER	W	- WASTE
HC	- HANDICAPPED ACCESSIBLE	WC	- WATER CLOSET
		WCO	- WALL CLEAN-OUT
		WH	- WALL HYDRANT

IDENTIFICATION KEY



SECTION, ELEVATION, OR DETAIL SYMBOL

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CSP 250086
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RGM PROJECT # 202506.00

DATE ISSUED

APRIL 5, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	04/22/26	ADDENDUM 1

SHEET TITLE
PLUMBING SCHEDULES AND LEGEND

SHEET NUMBER
P-001

4/23/2026 11:17:51 AM
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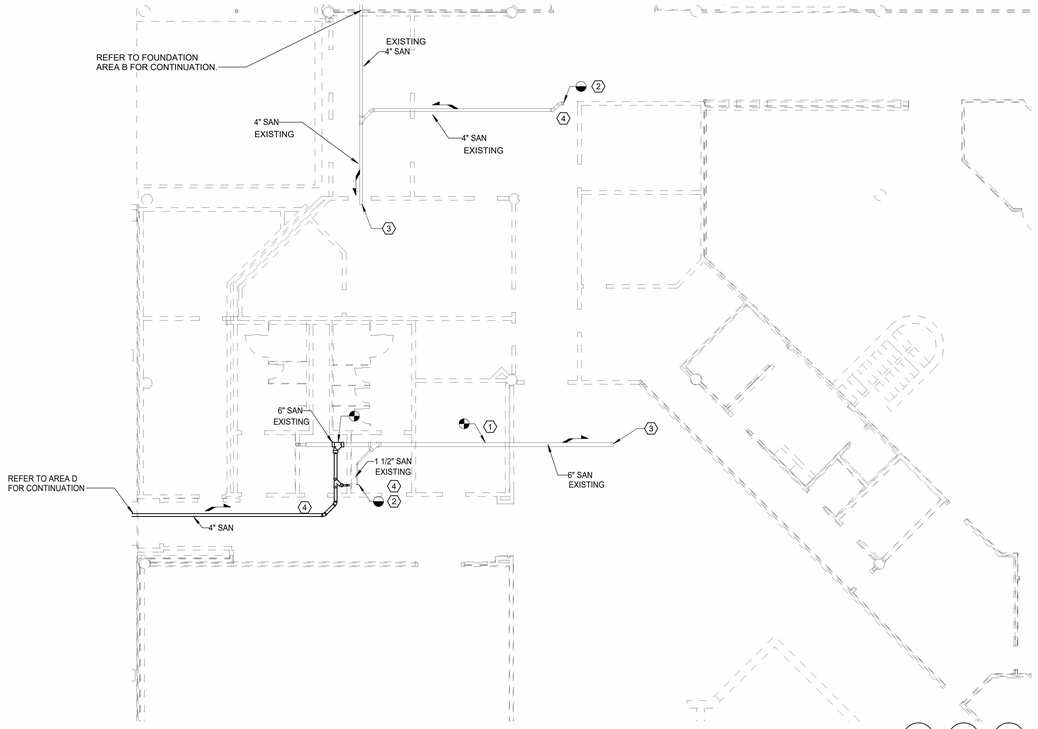
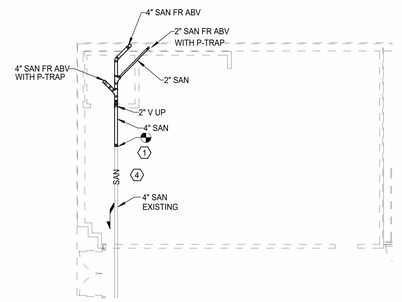
SHEET NOTES

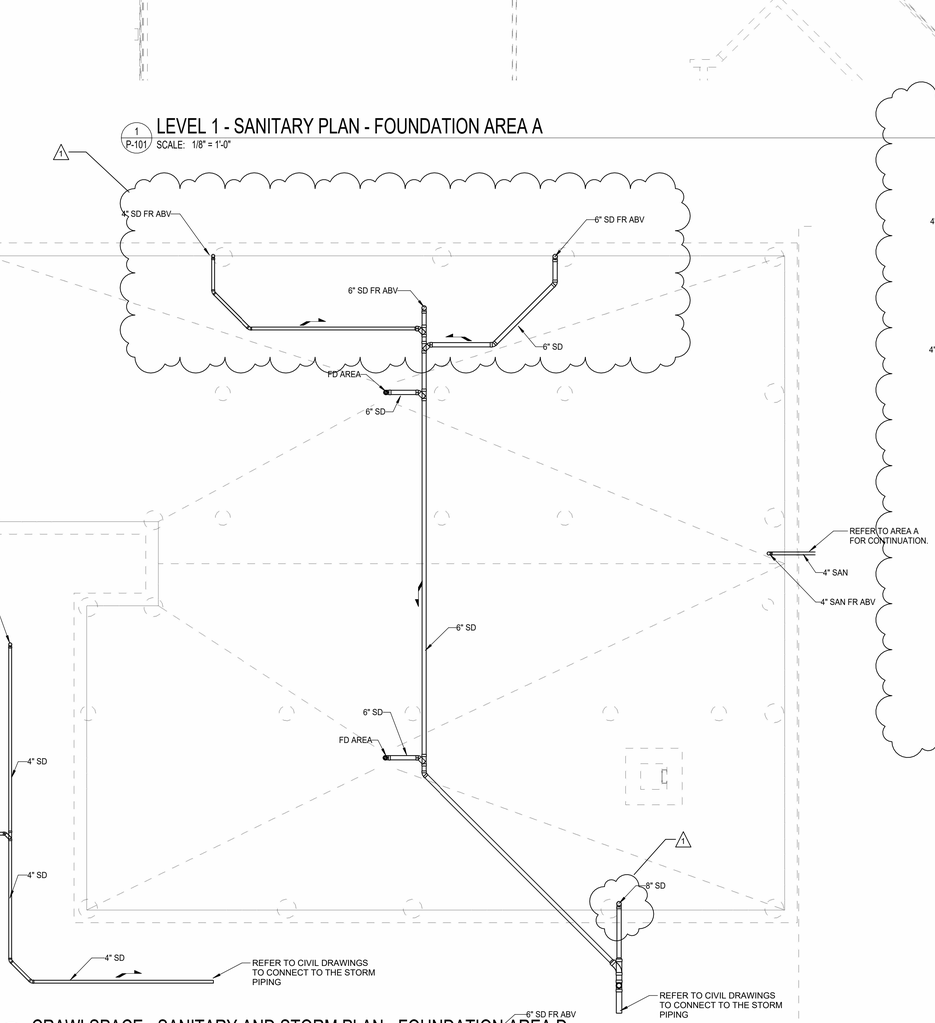
1. CONNECT TO EXISTING SANITARY PIPING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE, ELEVATION, AND ROUTING PRIOR TO CONNECTION. COORDINATE WITH EXISTING CONDITIONS.
2. DEMO EXISTING SANITARY PIPING TO THE EXTENTS INDICATED. ABANDON PIPING BEYOND DEMOLITION LIMITS. CAP AND SEAL REMAINING SANITARY PIPING AIRTIGHT. PROVIDE PROPER BACKFILL AND PATCH SLAB AS REQUIRED. VERIFY EXACT LIMITS IN FIELD.
3. REFER TO EXISTING AS-BUILT DRAWINGS FOR CONTINUATION OF SANITARY PIPING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION AND COORDINATE WITH EXISTING CONDITIONS.
4. SAWCUT AND REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR INSTALLATION OF NEW WORK. PATCH AND REPLACE SLAB TO MATCH EXISTING CONDITIONS IN KIND, INCLUDING THICKNESS, REINFORCEMENT, FINISH, AND ELEVATION. PROVIDE PROPER SUBGRADE PREPARATION AND COMPACTION.



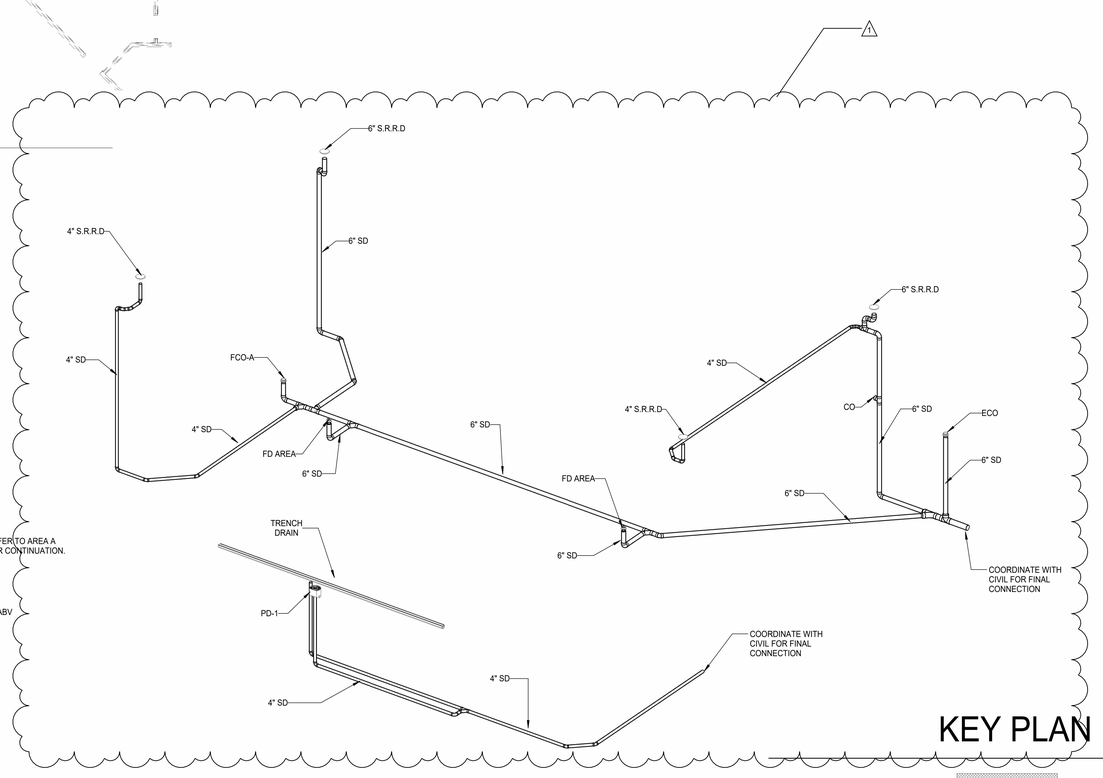
1 P-101 LEVEL 1 - SANITARY PLAN - FOUNDATION AREA A
SCALE: 1/8" = 1'-0"



3 P-101 LEVEL 1 - SANITARY PLAN - FOUNDATION AREA B
SCALE: 1/8" = 1'-0"

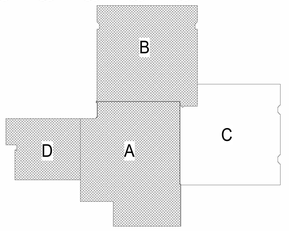


2 P-101 CRAWLSPACE - SANITARY AND STORM PLAN - FOUNDATION AREA D
SCALE: 1/8" = 1'-0"



4 P-101 STORM PIPING RISER
SCALE:

KEY PLAN



GRAPHIC SCALE
SCALE: 1/8" = 1'-0"
8' 4' 0 8' 16'

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CSP 250086
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SCHOOL RENOVATION

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RGM PROJECT # 202506.00

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SHEET TITLE
PLUMBING SANITARY PLAN- FOUNDATION

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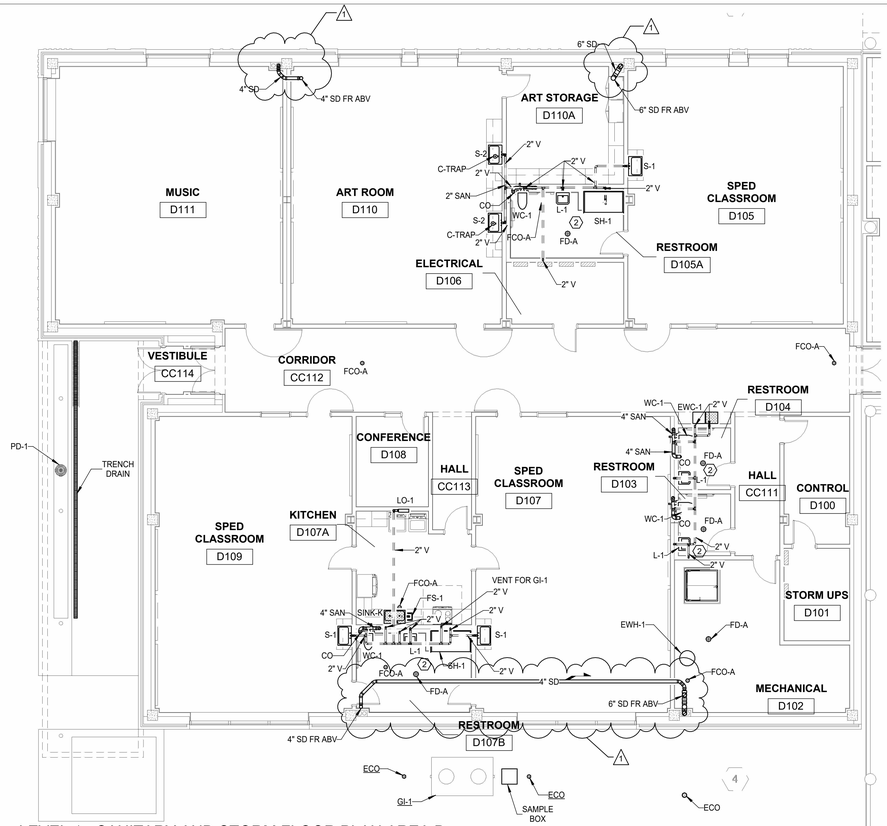

1 / P-201 LEVEL 1 - SANITARY AND STORM FLOOR PLAN AREA D
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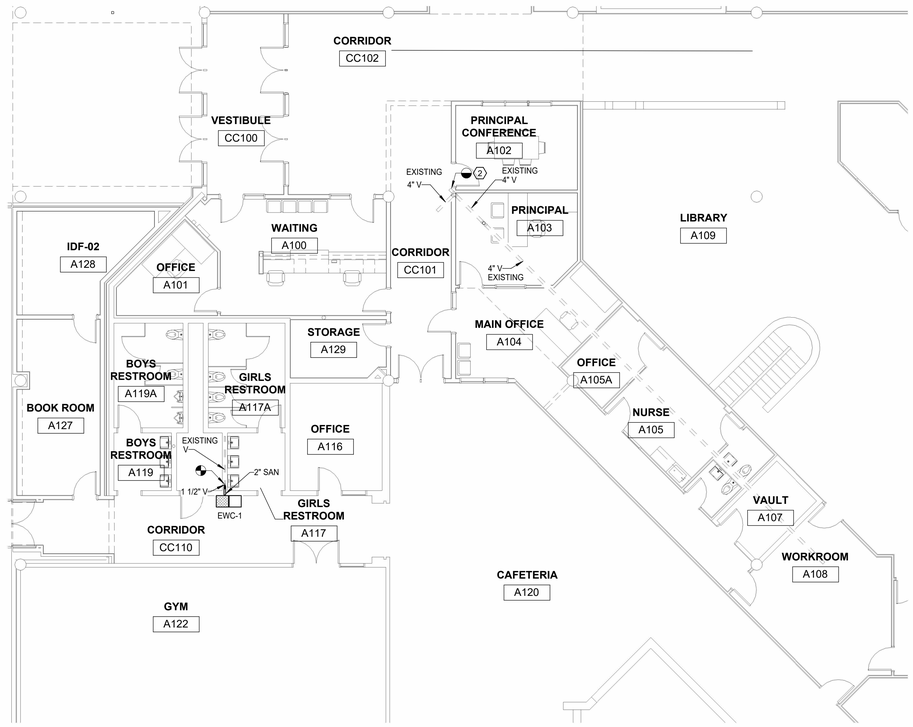

2 / P-201 LEVEL 1 - SANITARY FLOOR PLAN AREA A
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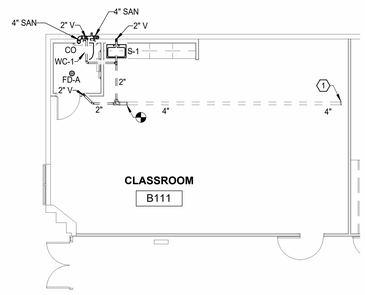

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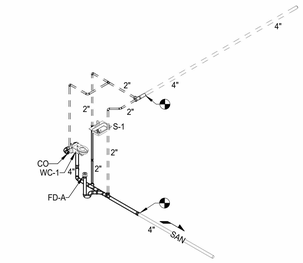
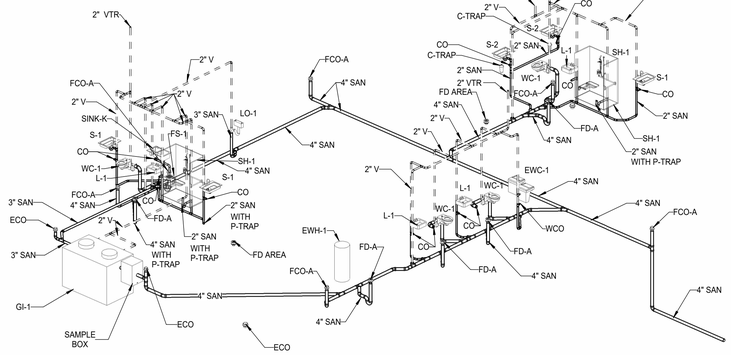
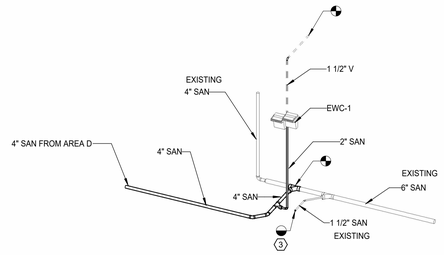


5 / P-201 SANITARY RISER DIAGRAM - AREA B
SCALE:



4 / P-201 SANITARY RISER DIAGRAM - AREA D
SCALE:

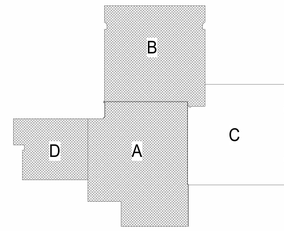


6 / P-201 SANITARY RISER AREA A
SCALE:

SHEET NOTES

1. CONTINUE 4" EXISTING VENT PIPING PLAN EAST TO EXISTING 4" VTR.
2. DEMO EXISTING VENT PIPING TO THE EXTENTS INDICATED. ABANDON PIPING BEYOND DEMOLITION LIMITS. CAP AND SEAL REMAINING VENT PIPING AIRTIGHT.
3. DEMO EXISTING SANITARY PIPING TO THE EXTENTS INDICATED. ABANDON PIPING BEYOND DEMOLITION LIMITS. CAP AND SEAL REMAINING SANITARY PIPING AIRTIGHT. PROVIDE PROPER BACKFILL AND PATCH SLAB AS REQUIRED. VERIFY EXACT LIMITS IN FIELD.

KEY PLAN



GRAPHIC SCALE
SCALE: 1/8" = 1'-0"
8' 4' 0 8' 16'

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SHEET TITLE
PLUMBING SANITARY AND STORM PLAN

SHEET NUMBER
P-201

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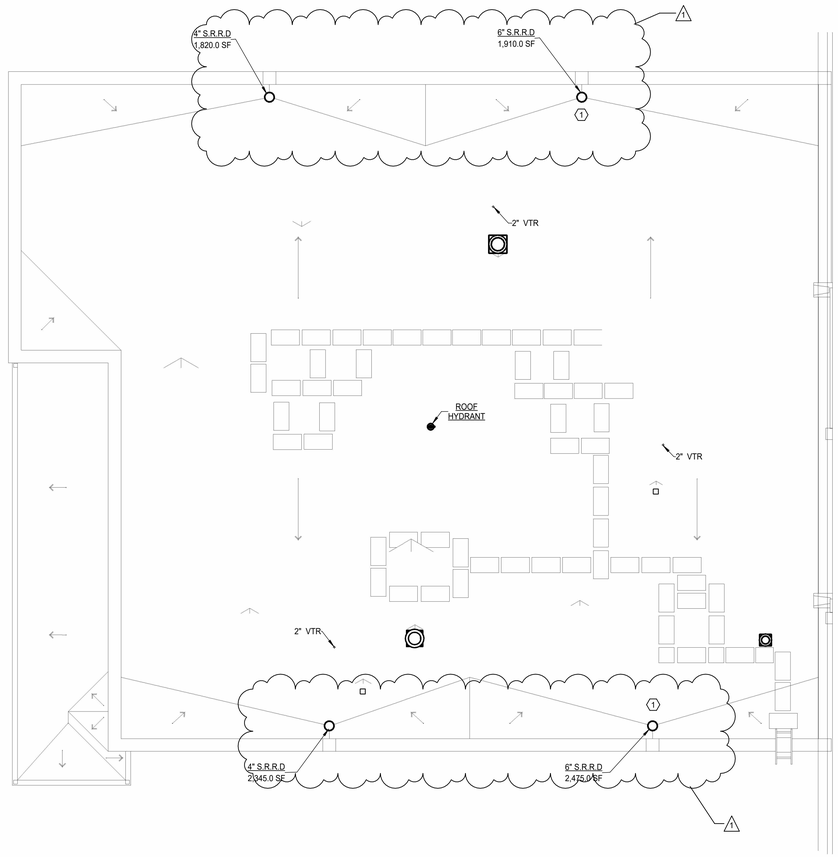
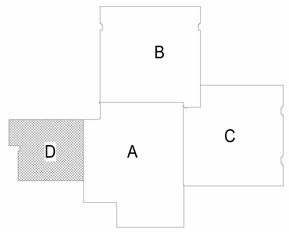
SHEET NOTE:

(1) ROOF DRAIN IS UPSIZED TO ACCOMMODATE ADDITIONAL RUNOFF FROM UPPER ROOF AREAS DISCHARGING ONTO THIS ROOF. INDICATED ROOF AREA EXCLUDES CONTRIBUTING UPPER ROOF AREA



1 P-202 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
16' 8' 0 16' 32'

ARCHITECT OF RECORD

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PLUMBING ROOF PLAN

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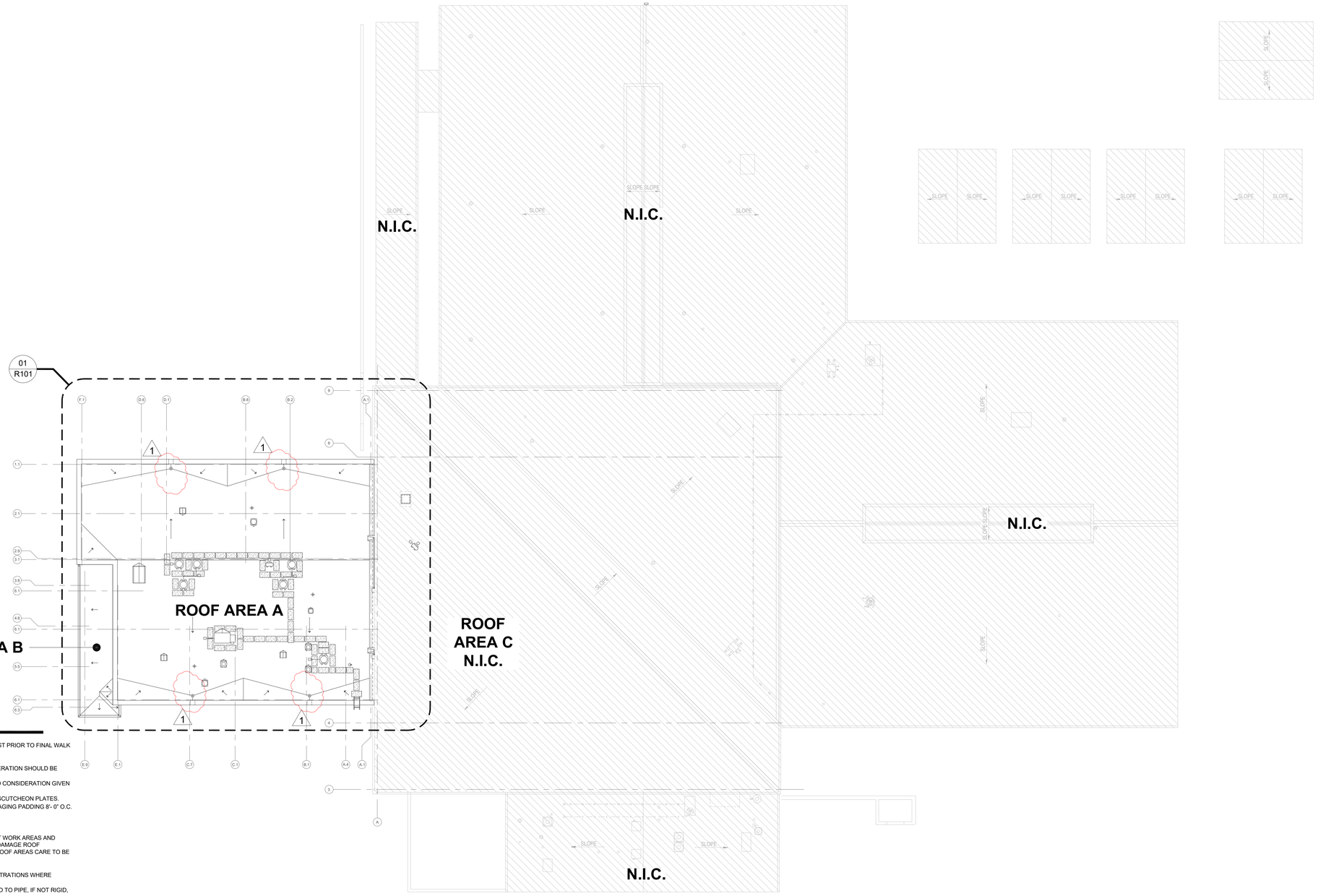

DISD HABITUAL PUNCHLIST:

PUNCH LIST ITEMS: THIS LIST CAN BE UTILIZED BY CONCERNED PARTIES AS CHECKLIST PRIOR TO FINAL WALK WITH DISTRICT AND ROOF MANUFACTURER'S REPRESENTATIVE.

1. BASE FLASHINGS MIN. 14 IN. HEIGHT FROM FINISH ROOF ELEVATION AND CONSIDERATION SHOULD BE TAKEN INTO ACCOUNT FOR HIGHER CURBS AND TAPERED INSULATION.
2. COUNTER FLASHING ON A/C UNITS, VENTILATORS, ETC. CORNERS SOLDERED AND CONSIDERATION GIVEN TO PURCHASING RIGHT SIZE CURB.
3. THRU WALL SCUPPERS SOLDERED & SEALED ENTIRELY OUTSIDE OF BLDG AND ESCUTCHEON PLATES.
4. PIPE WITH A DIAMETER OF 1.25 IN AND GREATER REQUIRE ROLLERS W/ NON-DAMAGING PADDING 8'- 0" O.C. AND 2'-0" IN CHANGE OF DIRECTION. PIPE STRAPS TO BE PROVIDED.
5. PAINT CONDENSATE PIPING PRIME AS REQUIRED.
6. ANYTHING THAT SITS ON ROOF REQUIRES NON-DAMAGING PADS.
7. OTHER CRAFTS AND TRADES ARE REQUIRED TO PROVIDE PROTECTION BOARD AT WORK AREAS AND STORAGE AREAS. METAL WORKERS AND FOIL CLAD BASE FLASHING, SHALL NOT DAMAGE ROOF SURFACES. CUTTING OILS, REFRIGERANT OILS, SOLDERING, ETC. WILL DAMAGE ROOF AREAS CARE TO BE TAKEN WITH THESE ITEMS ON ROOF.
8. NO PENETRATIONS THROUGH ANY BASE FLASHINGS.
9. RESIN FLASHING IN LIEU OF PITCH PANS W/ HOODS SHOULD BE UTILIZED AT PENETRATIONS WHERE COVERED BY MANUFACTURER'S WARRANTY.
10. AT REFRIGERANT PIPE PENETRATIONS IF RIGID FLASHINGS SHOULD BE INSTALLED TO PIPE, IF NOT RIGID, THE REFRIGERANT PIPING WILL REQUIRE A HOUSING PENETRATION.
11. ALL PIPING AND CONDUIT PENETRATIONS MUST BE HARD PIPED AND ANCHORED TO DECKING OF ALL ROOF FOR PROPER FLASHING..
12. THRU-WALL FLASHING/ WEEPS AT AREAS OF ROOF DISSECTED BY BRICK WALLS.
13. 14 INCH BASE FLASHINGS AT WINDOW WALLS MIN. FOR INSTALLATION OF COUNTER FLASHING.
14. OVER FLOWS AT ROOF DRAINS SHOULD BE A MAX. 2 INCHES ABOVE PRIMARY DRAINAGE ELEVATION.
15. PONDING WATER 48 HOURS AFTER RAIN IS UNACCEPTABLE.
16. GAS LEG SHOULD HAVE 1 INCH CLEARANCE FROM FINISH ROOF ELEVATION.
17. PLUMBING VENTS NEED RESIN FLASHING INSTALLED AT PIPING.
18. SPLASH BLOCKS AND PROTECTION PADS ARE NEEDED ANYWHERE WHERE ONE ROOF DRAINS TO ANOTHER EXCEPT AT METAL ROOF.
19. CONDENSER UNITS TO BE SET ON RAIL TYPE SUPPORTS OR BUILT BOX CURB.
20. DRAIN SUMPS INSTALLED PER PLANS AND SPECS.
21. PENETRATIONS SHOULD NOTE BETWEEN 12 INCHES TO 18 INCHES OF TOE CANT AREAS AT ANY ROOF BASE FLASHING PENETRATIONS.
22. GUTTER EXPANSION JOINTS SHOULD BE EVERY 50 FEET AND DOWNSPOUTS LOCATED WITH GUTTER EXPANSION JOINTS IN MIND.
23. ROOF TO ROOF LADDER SUPPORTS MUST NOT PENETRATE BASE FLASHINGS OR COPINGS.
24. CLAMPING RINGS AT DRAINS MUST BE TIGHT.
25. ALL EXPOSED FASTENERS SHOULD ALSO HAVE RUBBER WASHERS AND BE SPACED AT 8 INCHES O.C.
26. NO STEPPED THRU WALL FLASHINGS OR BASE FLASHINGS TO BE INSTALLED UNLESS END DAMS ARE PROPERLY INSTALLED.

01 OVERALL CONSTRUCTION ROOF PLAN

1/16" = 1'-0"

TRUE NORTH | PLAN NORTH

CONSTRUCTION LEGEND

ROOF AREAS INDICATED WITH HATCH ARE NOT WITHIN SCOPE

SCOPE OF WORK

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Moisture Protection
Technology Consultants

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Date of Signing 04/05/2026

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ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

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OVERALL CONSTRUCTION ROOF PLAN

SHEET NUMBER

R100

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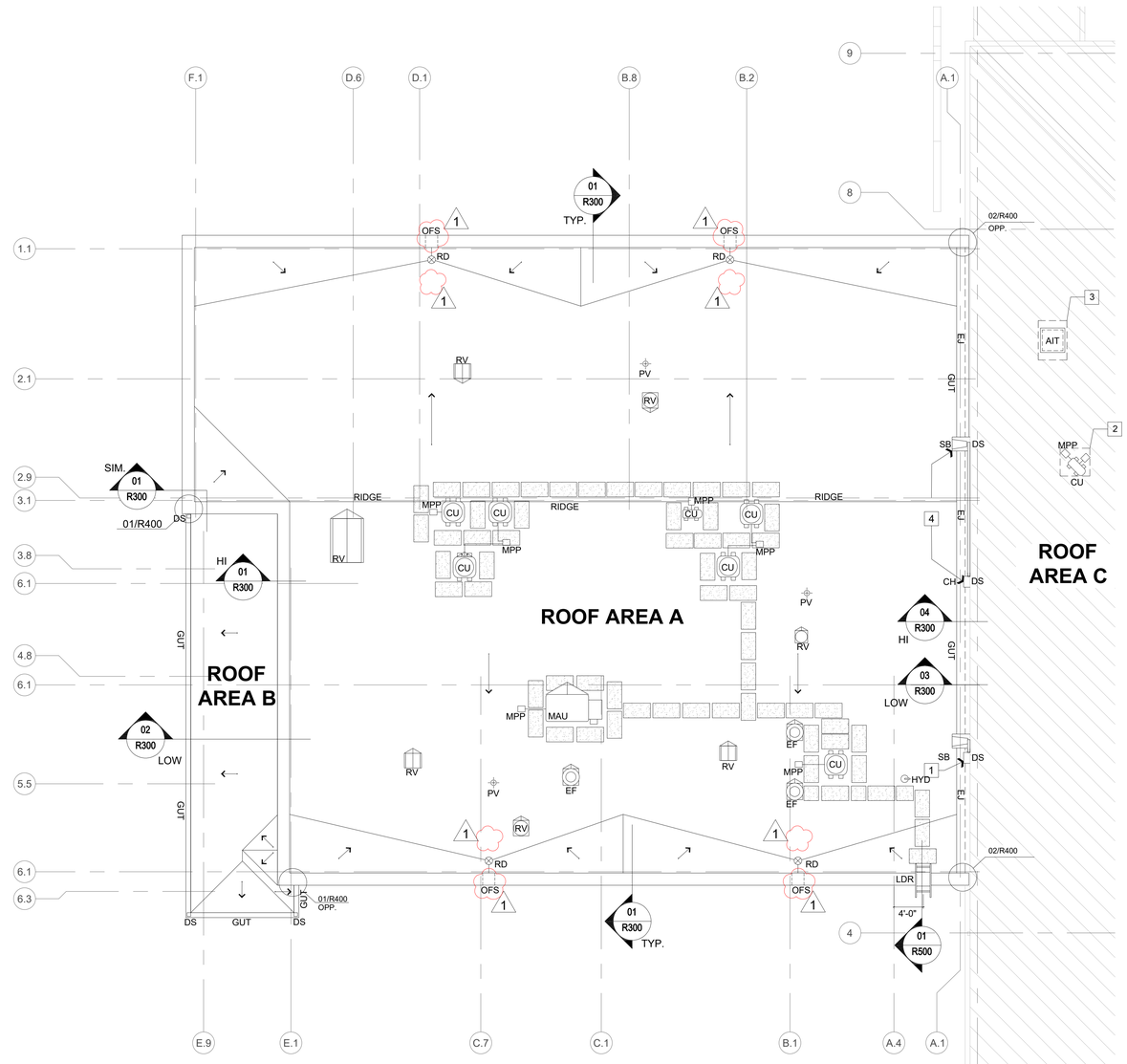

01 PARTIAL CONSTRUCTION ROOF PLAN

1/8" = 1'-0"

TRUE NORTH

PLAN NORTH N

ROOF SYSTEM NOTES

ROOF AREA A:
- TWO PLY MINERAL SURFACED ENERGY STAR RATED MODIFIED BITUMEN ROOF SYSTEM TORCHED WITH CAP SHEET OVER
- 1/2" THICK GYPSUM COVER BOARD INSTALLED WITH ADHESIVE OVER
- 2" THICK POLYISOCYANURATE RIGID INSULATION INSTALLED WITH ADHESIVE OVER
  2 1/2" THICK POLYISOCYANURATE RIGID INSULATION ADHERED OVER
- SLOPED (1/4" PER FOOT) PRIMED CONCRETE DECK.

ROOF AREA B (CANOPY):
- TWO PLY MINERAL SURFACED ENERGY STAR RATED MODIFIED BITUMEN ROOF SYSTEM TORCHED WITH CAP SHEET OVER
- 1/2" THICK GYPSUM COVER BOARD INSTALLED WITH ADHESIVE OVER
- 1-1/2" THICK POLYISOCYANURATE RIGID INSULATION MECHANICALLY FASTENED OVER
- SLOPED METAL DECK

ROOF AREA C (EXISTING):
- EXISTING PREFORMED METAL ROOF SYSTEM OVER
- EXISTING THERMAL SPACER OVER
- EXISTING 'Z' PURLINS WITH BATT INSULATION

CRICKETS ARE TO BE FORMED WITH 1/2" PER FOOT TAPERED POLYISOCYANURATE INSULATION, MIN. NET SLOPE OF 1/4" PER FOOT

GENERAL NOTE:
CONRACTOR TO VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS FOUND THAT DO NOT MATCH DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

CONSTRUCTION LEGEND

- 1 RD — ROOF DRAIN, REF. DETAILS 02/R200
- OFS — OVERFLOW SCUPPER, REF. DETAIL 01/R200
- CU CU — CONDENSING UNIT ON NEW CURB, REF. DETAILS 04/R200 AND 06/R300
- MAU — MAKEUP AIR UNIT, REF. DETAIL 08/R200
- RV EF — EXHAUST FAN AND RETURN VENT, REF. DETAIL 03/R200
- MPP — MULTIPLE PIPE PENETRATION, REF. DETAILS 12/R200 13/R200, AND 08/R300. FOR SINGLE PENETRATION AT EXISTING METAL ROOF REF. DETAIL 07/R300
- PV — PLUMBING VENT, REF. DETAIL 09/R200
- HYD — ROOF HYDRANT, REFER TO DETAIL 10/R200
- EJ — EXPANSION JOINT, REF. DETAIL 03/R300
- GUT — GUTTER, REF. DETAILS 16/R200, 02/R300, AND 04/R300
- GAS (G), E (E), CD (CD) — GAS (G), ELECTRICAL (E), AND CONDENSATION (CD) PIPING, REF. DETAILS 07/R200 AND 15/R200
- XX / XXX-X — SECTION CUT DETAIL
- XX/R400 — SPECIFIED DETAIL CALLOUT
- ROOF AREAS INDICATED WITH HATCH ARE NOT WITHIN SCOPE
- DS SB — DOWNSPOUT AND SPLASH BLOCK, REF. DETAILS 08/R300, 11/R200 AND 03/R300
- AIT — RELOCATED AIR INTAKE VENT, REF. DETAIL 05/R300
- DIRECTION OF SLOPE
- CRICKET SLOPE 1/2" PER FOOT, REF. DETAIL 06/R200
- ROOF PROTECTION PADS, REF. DETAIL 14/R200
- LDR — ROOF ACCESS LADDER, REF. SHEET R500

GENERAL CONSTRUCTION ROOF NOTES

1. DOCUMENT ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY ROOF WORK - CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES THAT ARE NOT PREVIOUSLY DOCUMENTED.
2. DO NOT STORE ROOFING MATERIALS DIRECTLY ON THE ROOF. SEE NOTE TO CONTRACTOR BELOW.
3. PROVIDE PROTECTION AT ALL ROOF AREAS WHERE WORK IS TO BE PERFORMED.
4. ALL SIGHT EXPOSED ROOFING RELATED SHEET METAL VISIBLE FROM GROUND LEVEL TO BE FORMED OUT OF PRE-FINISHED SHEET METAL.
5. ALL NON-SIGHT EXPOSED ROOFING RELATED SHEET METAL NOT VISIBLE FROM GROUND LEVEL TO BE FORMED OUT OF GALVANIZED SHEET METAL.
6. CLEAN, PRIME, AND PAINT ALL EXPOSED GAS PIPING. PAINT TO BE UV RESISTANT YELLOW.
7. INSTALL WALKWAY PADS UNDER ALL PIPE SUPPORTS AS SPECIFIED AND SHOWN.
8. INSTALL INSULATION CRICKETS AT THE HIGH SIDE OF ALL ROOF CURBS.
9. CLEAN, PRIME, AND PAINT ALL EXPOSED CONDENSATE COPPER PIPING WITH BLACK UV RESISTANT PAINT. ALL CONDENSATE PIPING TO BE PROPERLY SUPPORTED.
10. ALL ROOFTOP EQUIPMENT CURBS WILL NEED TO BE INSTALLED WITH 14 INCH MINIMUM FLASHING HEIGHT.
11. INSTALL PIPE SUPPORTS UNDER ALL PIPING, SPACED AT 8'-0" ON CENTER IN LINEAR DIRECTION AND AT 2'-0" AT CHANGE IN DIRECTION. INSTALL PROTECTION PADS AT ALL PIPE SUPPORTS.
10. INSTALL SAFETY RAILING AND PROTECTION PADS AT ROOF HATCH.
11. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUTS DISCHARGING AT GRADE LEVEL AND ONTO OTHER ROOF LEVELS. AT ROOF LEVEL INSTALL PROTECTION PADS UNDER SPLASH BLOCKS WITH ADHESIVE BETWEEN PROTECTION PAD AND SPLASH BLOCK.
12. ENSURE GUTTER EXPANSION JOINTS ARE INSTALLED NO MORE THAN EVERY 50 FEET WITH DOWNSPOUTS ON BOTH SIDES. GUTTERS ARE TO BE INSTALLED WITH GUTTER STRAPS AND SUPPORT BRACKETS.
13. PROVIDE GUARDRAIL FALL ARREST SYSTEM AT SERVICEABLE ROOF EQUIPMENT WITHIN 10'-0" OF THE ROOF EDGE OR PARAPETS LOWER THAN 42 INCHES.
14. MULTIPLE PIPE PENETRATIONS WILL NEED TO UTILIZE "VAULT" HOUSING TO PROVIDE WARRANTED PENETRATIONS.
15. CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY - REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY.
16. CONSTRUCTION DRAWINGS ARE BASED ON VISUAL OBSERVATIONS AND EXISTING DRAWINGS, CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY.

KEYED CONSTRUCTION NOTES

1. NEW DOWNSPOUT TO BE INSTALLED AT EXISTING COLLECTOR HEAD, COLLECTOR HEAD AND GUTTER TO REMAIN. REFER TO DETAIL 04/R300.
2. NEW CONDENSING UNIT TO BE INSTALLED AT EXISTING METAL ROOF, REFER TO DETAILS 06/R300 AND 05/R400.
3. RELOCATED AIR INTAKE UNIT TO BE INSTALLED AT EXISTING METAL ROOF, REFER TO DETAILS 05/R300 AND 03/R400.
4. NEW DOWNSPOUT TO BE INSTALLED AT EXISTING COLLECTOR HEAD TO JOG PLAN NORTH AND DAYLIGHT ONTO NORTH SIDE OF STORM SHELTER.

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DRYTEC
Moisture Protection Technology Consultants

SEAL

REGISTERED ARCHITECT — RYAN G. MCCLAIN — 74155 — STATE OF TEXAS

Date of Signing 04/05/2026

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RGM PROJECT # 202506.00

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SHEET TITLE

PARTIAL CONSTRUCTION ROOF PLAN

SHEET NUMBER

R101

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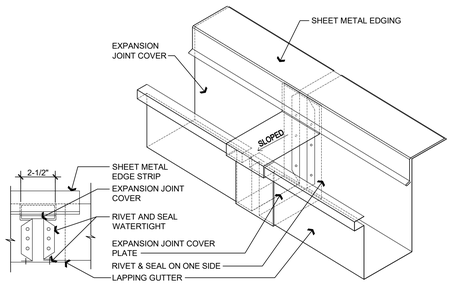
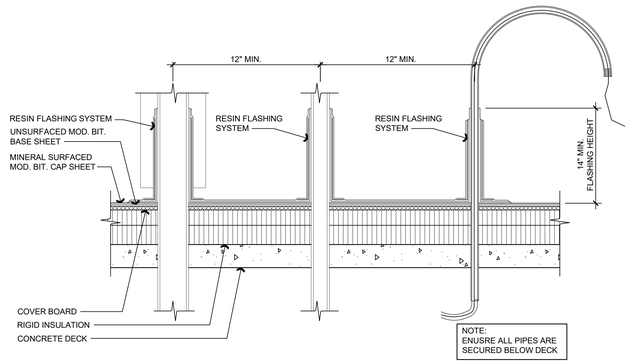
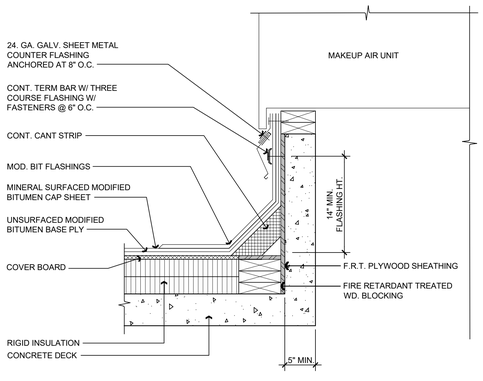


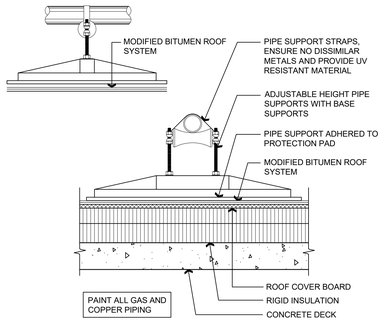
16 Gutter Expansion Joint
Scale: 1/2" = 1' - 0"



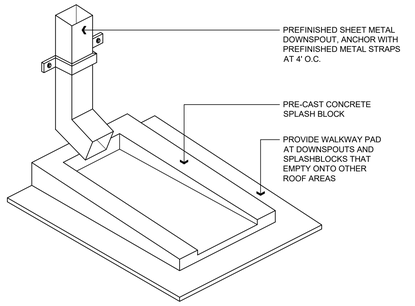
12 Multiple Pipe Flashing Detail
Scale: N.T.S.



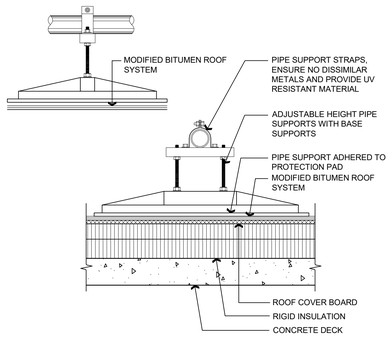
08 Makeup Air Unit at Storm Shelter
Scale: 1 1/2" = 1' - 0"



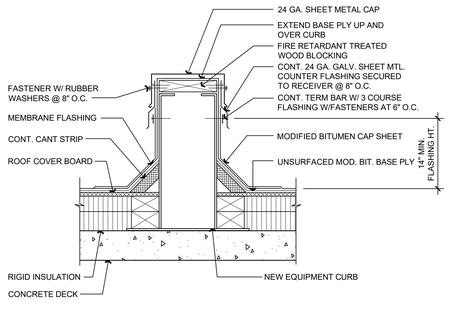
15 Gas Pipe Support Detail
Scale: 1 1/2" = 1' - 0"



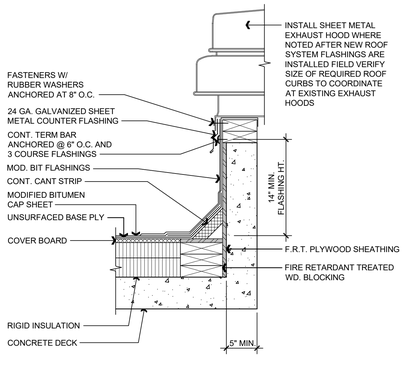
11 Downspout and Splashblock Detail
Scale: N.T.S.



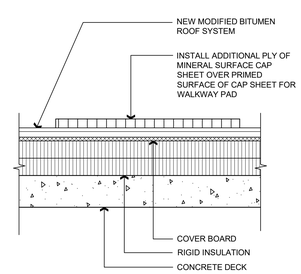
07 Pipe/Conduit Support Detail
Scale: 1 1/2" = 1' - 0"



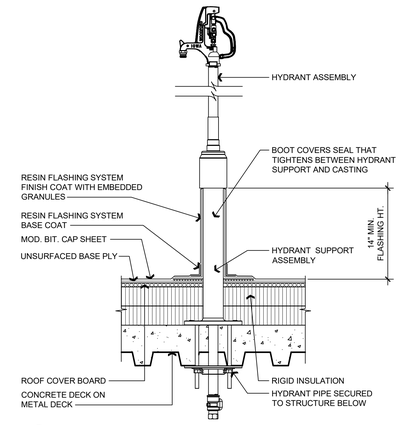
04 Rail Curb Detail
Scale: 1 1/2" = 1' - 0"



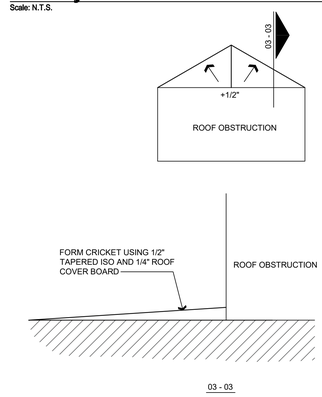
03 Exhaust Fan Detail
Scale: 1 1/2" = 1' - 0"



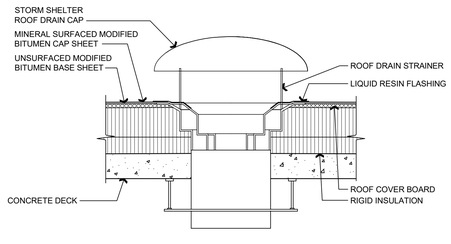
14 Walkway Pad Detail
Scale: 1 1/2" = 1' - 0"



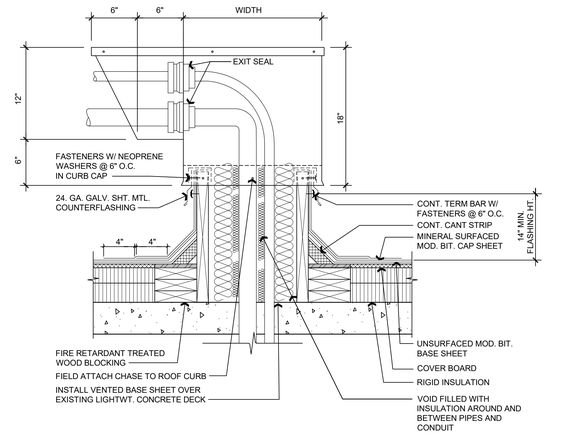
10 Roof Hydrant Penetration Detail
Scale: N.T.S.



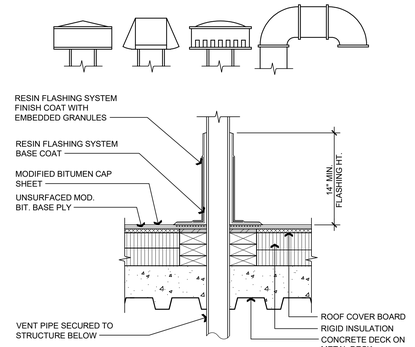
06 Cricket Detail
Scale: N.T.S.



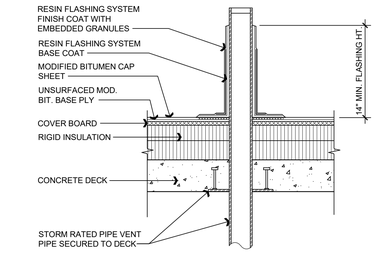
02 Storm Rated Drain Detail
Scale: 1 1/2" = 1' - 0"



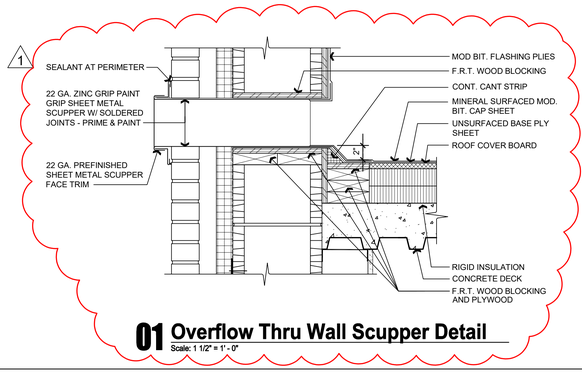
13 Multiple Pipe Penetration Detail
Scale: 1 1/2" = 1' - 0"



09 Penetration Detail
Scale: 1 1/2" = 1' - 0"



05 Penetration Detail
Scale: 1 1/2" = 1' - 0"



01 Overflow Thru Wall Scupper Detail
Scale: 1 1/2" = 1' - 0"

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Date of Signing 04/05/2026

DALLAS ISD 2020 BOND PROGRAM
CSP 250086
ORG #208 SEAGOVILLE ELEMENTARY
ADDITION AND RENOVATION

304 N KAUFMAN ST, SEAGOVILLE, TX 75159

RGM PROJECT # 202506.00

DATE ISSUED

APRIL 05, 2026

REVISIONS

No.	DATE	DESCRIPTION
1	4/22/26	ADDENDUM 01

SHEET TITLE

ROOF DETAILS

SHEET NUMBER

R200