MORE THAN ARCHITECTS

ADDENDUM

NO. 02

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: 2024 Cy Ranch High School Additions And Renovations

CLIENT NAME: Cypress-Fairbanks ISD

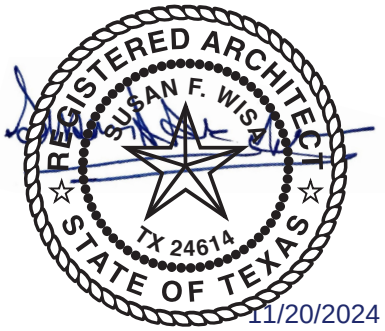
LOCATION: Cypress, Texas

PROJECT NUMBER: 01818-06-01

PROPOSAL DATE: Thursday, December, 05, 2024, Time: 2:00 PM

ADDENDUM DATE: Thursday, November 20, 2024

For additional information regarding this project, contact Susan Wisa at 800.687.1229



THIS ADDENDUM INCLUDES:

Civil Items	18 Dwg Pages
Landscape Items	--
Structural Items	7 Dwg Pages
Architectural Items	79 spec pages, 27 Dwg Pages,
Foodservice Items	--
Plumbing Items	6 Dwg Pages
Mechanical Items	7 Spec Pages
Electrical Items	3 Dwg Pages
Technology Items	--
Audio/ Visual	--

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM

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Project Name: 2024 CY RANCH HS ADDITIONS & RENOVATIONS
Client: Cypress-Fairbanks ISD
Cypress, Texas
Project Number: 01818-05-01

CIVIL ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
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REFERENCE IS MADE TO THE DRAWINGS AS NOTED:

DRAWINGS:

AD No 2, Civil Item 1: **To the Drawings, Sheet C1.01, "HCED REVIEW SHEET"**
1) New sheet added.

AD No 2, Civil Item 2: **To the Drawings, Sheet C1.02, "DETENTION POND HCPID EXPRESS REVIEW SHEET (FOR REFERENCE ONLY)"**
1) New sheet added.

AD No 2, Civil Item 3: **To the Drawings, Sheet C1.03, "HCFCD REVIEW SHEET"**
1) New sheet added.

AD No 2, Civil Item 4: **To the Drawings, Sheet C5.03, "PARKING – DEMOLITION PLAN SHEET 3 OF 4"**
1) Added note directing contractor to record existing marching band striping and colored markers prior to removing for surface preparation.

AD No 2, Civil Item 5: **To the Drawings, Sheet C6.03, "PARKING – STRIPING PLAN SHEET 3 OF 4"**
1) Revised PARKING AND MARCHING BAND PRACTICE RE-STRIPING NOTES.
2) Revised parking numbering at spaces 1051-1058.

AD No 2, Civil Item 6: **To the Drawings, Sheet C9.00, "FINE ARTS ADDITION – PAVING PLAN"**
1) Revised hatches in legend for sod and hydromulch.
2) Added proposed sod hatch at sidewalk left of proposed northern building expansion.

AD No 2, Civil Item 7: **To the Drawings, Sheet C11.00, "FINE ARTS ADDITION – UTILITY PLAN"**
1) Revised GENERAL CONSTRUCTION NOTE 2.

AD No 2, Civil Item 8: **To the Drawings, Sheet C14.00, "TENNIS COURTS – LAYOUT PLAN"**
1) Added dimensions around existing band tower.

AD No 2, Civil Item 9: **To the Drawings, Sheet C15.00, "TENNIS COURTS – PAVING PLAN"**

1) Revised hatches in legend for sod and hydromulch.

AD No 2, Civil Item 10: **To the Drawings, Sheet C17.00, "TENNIS COURTS – UTILITY PLAN"**

1) Revised GENERAL CONSTRUCTION NOTE 2.
2) Added note for contractor to protect existing band stand.

AD No 2, Civil Item 11: **To the Drawings, Sheet C21.00, "ATHLETICS STORAGE BUILDING - PAVING AND GRADING PLAN"**

1) Revised hatches in legend for sod and hydromulch.

AD No 2, Civil Item 12: **To the Drawings, Sheet C22.00, "ATHLETICS STORAGE BUILDING – UTILITY PLAN"**

1) Revised GENERAL CONSTRUCTION NOTE 2.

AD No 2, Civil Item 13: **To the Drawings, Sheet C24.00, "DETENTION POND – LAYOUT PLAN"**

1) Revised sod and FLexterra hatches in legend.
2) Revise sod and Flexterra hatches in plan view.
3) Revised GENERAL CONSTRUCTION NOTE 2.

AD No 2, Civil Item 14: **To the Drawings, Sheet C24.01, "DETENTION POND SERVICE AREA (FOR REFERENCE ONLY)"**

1) New sheet added.

AD No 2, Civil Item 15: **To the Drawings, Sheet C24.02, "DETENTION BASIN LAYOUT (FOR REFERENCE ONLY)"**

1) New sheet added.

AD No 2, Civil Item 16: **To the Drawings, Sheet C24.03, "STORM WATER QUALITY DETAILS (FOR REFERENCE ONLY)"**

1) New sheet added.

AD No 2, Civil Item 17: **To the Drawings, Sheet C24.04, "FLOATABLES COLLECTION SCREEN DETAIL (FOR REFERENCE ONLY)"**

1) New sheet added.

AD No 2, Civil Item 18: **To the Drawings, Sheet C26.02, "MISCELLANEOUS DETAILS SHEET 2 OF 3"**

1) Added detail for STORM SEWER INLET W/EXPANSION JOINT.
2) Added detail for CURB INLET W/EXPANSION JOINT.

END OF CIVIL ADDENDUM

Project Name: 2024 Cy Ranch High School Additions And Renovations
Client: Cypress-Fairbanks ISD
Location: Cypress, Texas
Project Number: 01818-06-01

11/20/2024

STRUCTURAL ITEMS FOR ADDENDUM NO. 02

NOTICE TO PROPOSERS:

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

PROJECT MANUAL:

No Revisions

DRAWINGS:

AD No 1, Struct Item 1: **To the Drawings, Sheet S102, "GENERAL STRUCTURAL CRITERIA,"**

1) Updated Note to ASCE 7-16.
2) Updated Seismic Criteria Notes.
3) Updated Snow Load note to 5PSF.

AD No 1, Struct Item 2: **To the Drawings, Sheet S201A, "FOUNDATION PLAN - AREA G&F,"**

1) Column baseplate sizes updated.
2) Pier spacing updated at Grid 5.
3) Gradebeam changed to a Thickened Slab.
4) Interior & Exterior Pier elevations changed to 3'-8", UON.
5) Adjusted Column Hanger Height at Area F.
6) Foundation Plan – Reception Area Added.

AD No 1, Struct Item 3: **To the Drawings, Sheet S202A, "LOW ROOF FRAMING PLAN - AREA G&F,"**

1) Split beam at Grid 12 and Added Moment Frames.
2) Reception Framing plan added.

AD No 1, Struct Item 4: **To the Drawings, Sheet S203A, "HIGH ROOF FRAMING PLAN - AREA G&F,"**

1) Edge of Deck was updated to 6 5/8".

AD No 1, Struct Item 5: **To the Drawings, Sheet S302, "COLUMN & BASEPLATE SCHEDULE,"**

1) COLUMN (C3) is only being used as a Hanger, no baseplate.
2) COLUMN (C4) added with a concealed HSS post connection.
3) Detail 5 added.

AD No 1, Struct Item 6: **To the Drawings, Sheet S403, "SOG @ GB,"**

1) Brick Ledge Depth updated to 6".

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AD No 1, Struct Item 7: **To the Drawings, Sheet S603, "STEEL ROOF DETAIL,"**

1) Section number 4 updated at high roof framing.

END OF STRUCTURAL ADDENDUM

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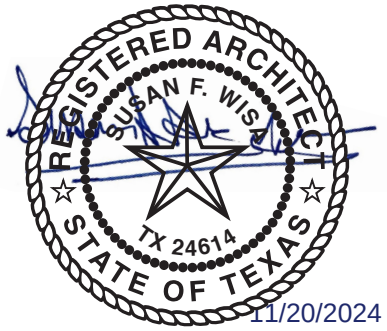
Project Name: 2024 Cy Ranch High School Additions And Renovations
Client: Cypress-Fairbanks ISD
Location: Cypress, Texas
Project Number: 01818-06-01



11/20/2024

ARCHITECTURAL ITEMS FOR ADDENDUM NO. 02

NOTICE TO PROPOSERS:

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

GENERAL:

AD NO 2, ARCH. ITEM 1: Attached Pre-Proposal Conference Minutes and Sign In Sheet are issued in their entirety

PROJECT MANUAL:

AD No 2, Arch. Item 2: To the Project Manual, Section 00 0115 "LIST OF DRAWING SHEETS"

1) Replace the section in its entirety.

AD No 2, Arch. Item 3: To the Project Manual, Section 01 10 00 "SUMMARY OF WORK"

1) Replace the section in its entirety.

AD No 2, Arch. Item 4: To the Project Manual, Section 01 21 00 "ALLOWANCES"

1) Replace the section in its entirety.

AD No 2, Arch. Item 5: To the Project Manual, "AIA DOCUMENT A101-2017"

1) Replace the section in its entirety.

AD No 2, Arch. Item 6: To the Project Manual, Section AA "REQUEST FOR CSP"

1) Replace the section in its entirety.

AD No 2, Arch. Item 7: To the Project Manual, Section AC "AC PROPOSAL FORMS - VERSION 7.0"

1) Replace the section in its entirety.

AD No 2, Arch. Item 8: To the Project Manual, Section 08 7100, "Door Hardware"

1) Replace the section in its entirety.

AD No 2, Arch. Item 9: To the Project Manual, Section 09 6429, "Wood Strip and Plank Flooring"

2) Delete Masonite and Georgia Pacific as approved manufacturers.
3) Add Swanson as approved manufacturer of Tempered Plyron floor.

DRAWINGS:

AD No 2, Arch. Item 10: To the Drawings, Sheet G1.02, "GENERAL DATA"
1) Revise the sheet list for general and civil sheets per attached sheet.

AD No 2, Arch. Item 11: To the Drawings, Sheet G5.01, "SCHEDULE OF MATERIALS AND COLORS"
1) Revise product and manufacturer info for "WMS" wood flooring at Black Box per attached sheet.
2) Add VSF01 and VSF02 to resilient flooring per attached sheet.

AD No 2, Arch. Item 12: To the Drawings, Sheet G6.01, "MASTER PLAN - PHASING SITE PLAN"
1) Add the sheet in its entirety.

AD No 2, Arch. Item 13: To the Drawings, Sheet G6.02, "MASTER PLAN - PHASING FIRST FLOOR"
1) Add the sheet in its entirety.

AD No 2, Arch. Item 14: To the Drawings, Sheet G6.03, "MASTER PLAN - PHASING SECOND FLOOR"
1) Add the sheet in its entirety.

AD No 2, Arch. Item 15: To the Drawings, Sheet AS1.03, "ENLARGED SITE PLAN - FINE ARTS & ATHLETICS"
1) Detail 1, add ADA parking space signage per attached sheet.
2) Detail 5, add new ADA parking space signage detail in its entirety per attached sheet
3) AS - Gate Schedule, Revise notes per attached sheet

AD No 2, Arch. Item 16: To the Drawings, Sheet AD1.04, "AREA D1 - DEMOLITION PLAN - FIRST FLOOR"
1) Detail 1, Add door demo keynotes to D150 vestibule per attached sheet.

AD No 2, Arch. Item 17: To the Drawings, Sheet A2.19, "CEILING DETAILS"
1) Detail 7, revise detail per attached sheet.

AD No 2, Arch. Item 18: To the Drawings, Sheet A3.01, "DOOR SCHEDULES AND CONFIGURATIONS"
1) Revise door hardware and comments per attached sheet.
2) Door Assembly Notes, add door special note "13" per attached sheet.
3) D149a, revise existing door height to be 7'-0" per attached sheet.
4) D148 & D149B, revise door height to be 7'-0" per attached sheet.
5) D150C, Revise door height to be 7'-0" and door comment to be "13" for door D150C per attached sheet.
6) D150D, Revise door height to be 7'-0", and add door comment "13" to door D150D per attached sheet.

AD No 2, Arch. Item 19: To the Drawings, Sheet A3.02, "DOOR SCHEDULES"
1) Revise door hardware and comments per attached sheet.

AD No 2, Arch. Item 20: To the Drawings, Sheet A3.03, "STOREFRONT CONFIGURATIONS & DOOR AND WINDOW DETAILS"
1) Revise details 2, 3, & 4 per attached sheet.

AD No 2, Arch. Item 21: To the Drawings, Sheet A4.01, "AREA A1 - FINISH PLAN - FIRST FLOOR"
1) Revise finish remarks and finish plan general notes per attached sheet
2) Add LVT legend per attached sheet.

AD No 2, Arch. Item 22: To the Drawings, Sheet A4.05, "AREA E1 - FINISH PLAN - FIRST FLOOR"
3) Revise finish remarks and finish plan general notes per attached sheet
4) Add LVT legend per attached sheet.

AD No 2, Arch. Item 23: To the Drawings, Sheet A4.06, "AREA F1 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, Revise note for replacement of lighted stair and aisle nosing per attached sheet.
2) Detail 1, Add dashed lines indicating locations of lighted stair and aisle nosing to be replaced per attached sheet.

3) Revise finish remarks and finish plan general notes per attached sheet
4) Add LVT legend per attached sheet.

AD No 2, Arch. Item 24: To the Drawings, Sheet A4.07, "AREA G1 - FINISH PLAN - FIRST FLOOR"
5) Revise finish remarks and finish plan general notes per attached sheet
6) Add LVT legend per attached sheet.

AD No 2, Arch. Item 25: To the Drawings, Sheet A4.08, "AREA H1 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 26: To the Drawings, Sheet A4.11, "AREA B2 & BB2 - FINISH PLAN - FIRST FLOOR"
1) Detail 2, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 27: To the Drawings, Sheet A4.12, "AREA C2 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 28: To the Drawings, Sheet A4.13, "AREA D2 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 29: To the Drawings, Sheet A4.14, "AREA E2 - FINISH PLAN - FIRST FLOOR"
7) Detail 1, revise room tag remarks per attached sheet.
8) Revise finish remarks and finish plan general notes per attached sheet
9) Add LVT legend per attached sheet.

AD No 2, Arch. Item 30: To the Drawings, Sheet A4.15, "AREA H2 & I2 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 31: To the Drawings, Sheet A4.16, "AREA J2 - FINISH PLAN - FIRST FLOOR"
1) Detail 1, revise room tag remarks per attached sheet.

AD No 2, Arch. Item 32: To the Drawings, Sheet A4.18, "TYP INTERIOR DETAILS"
1) Detail 1, revise flooring and subfloor per attached sheet.
2) Detail 1, revise detail title per attached sheet.

AD No 2, Arch. Item 33: To the Drawings, Sheet A6.02, "WALL SECTIONS"
2) Details 14 & 15, revise per attached sheet.

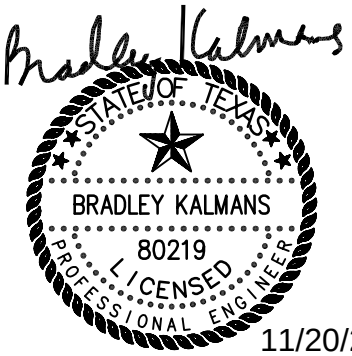
AD No 2, Arch. Item 34: To the Drawings, Sheet A7.01, "ROOF PLAN - AREA F & G"
3) Details 1, add overflow drains into existing roof per attached sheet.

AD No 2, Arch. Item 35: To the Drawings, Sheet A7.02, "TYPICAL ROOFING DETAILS"
4) Details 1, add detail per attached sheet.

AD No 2, Arch. Item 36: To the Drawings, Sheet A7.03, "TYPICAL ROOFING DETAILS"
5) Details 8 & 9, revise detail "NOTE" and detail title per attached sheet.

END OF ARCHITECTURAL ADDENDUM

Project Name: 2024 Cy Ranch High School Additions And Renovations
Client: Cypress-Fairbanks ISD
Location: Cypress, Texas
Project Number: 01818-06-01



11/20/2024

ELECTRICAL ITEMS FOR ADDENDUM NO. 02

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

DRAWINGS:

AD No 2, Elec. Item 1: **To the Drawings, Sheet E2.01, "ELECTRICAL LIGHTING FIRST FLOOR PLAN – AREA F,"**
Refer to attached drawing E2.01 for addition of auditorium strip aisle lighting.

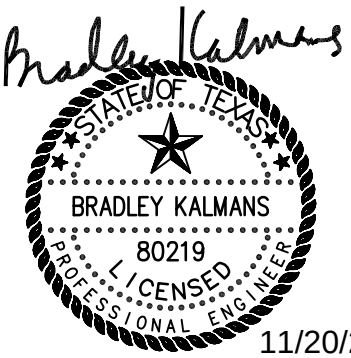
AD No 2, Elec. Item 2: **To the Drawings, Sheet E6.02, "ELECTRICAL PARTIAL ONE-LINE DIAGRAM,"**
Refer to attached drawing E6.02 for added key notes and fire rated cable general note.

AD No 2, Elec. Item 3: **To the Drawings, Sheet E8.01, "ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES,"**
Refer to attached drawing E8.01 for addition of auditorium strip aisle lighting fixture type to luminaire schedule and added 'ROOF ACCU SUPPORT DISCONNECT' detail.

END OF ELECTRICAL ADDENDUM

Huckabee

Project Name: 2024 Cy Ranch High School Additions And Renovations
Client: Cypress-Fairbanks ISD
Location: Cypress, Texas
Project Number: 01818-06-01



11/20/2024

MECHANICAL ITEMS FOR ADDENDUM NO. 02

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

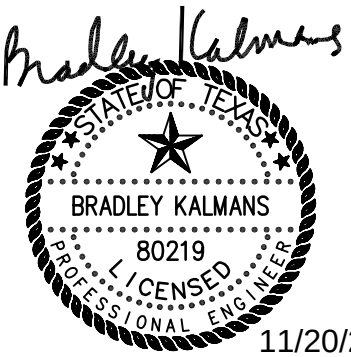
PROJECT MANUAL:

AD No 2, Mech. Item 1: **To the Project Manual, Section 23 7313, "Air Handling Units,"**
Replace this section in its entirety with the attached.

END OF MECHANICAL ADDENDUM

Huckabee

Project Name: 2024 Cy Ranch High School Additions And Renovations
Client: Cypress-Fairbanks ISD
Location: Cypress, Texas
Project Number: 01818-06-01



11/20/2024

PLUMBING ITEMS FOR ADDENDUM NO. 02

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

DRAWINGS:

AD No 2, Plumb. Item 1: **To the Drawings, Sheet P2.02, "Plumbing Underfloor Plan – Area G,"**
a. Removed sanitary line serving new floor sink in band workroom.
b. Refer to attached drawing P2.02.

AD No 2, Plumb. Item 2: **To the Drawings, Sheet P3.01, "Plumbing First Floor Plan – Level 1 – Area F,"**
a. Routed new overflow drain piping from new roof overflow drains and routed piping to discharge into daylight using downspout nozzles.
b. Refer to attached drawing P3.01.

AD No 2, Plumb. Item 3: **To the Drawings, Sheet P3.02, "Plumbing First Floor Plan – Area G,"**
a. Added wall hydrant outside Mech G167.
b. Relocated shutoff valve for sinks in Digital Art G154.
c. Refer to attached drawing P3.02.

AD No 2, Plumb. Item 4: **To the Drawings, Sheet P4.01, "Plumbing Roof Plan,"**
a. Added 2 new roof drain overflows to existing roof.
b. Refer to attached drawing P4.01.

AD No 2, Plumb. Item 5: **To the Drawings, Sheet P5.02, "Plumbing Details,"**
a. Revise title of Detail 3 to "Sink with Solids Interceptor."

AD No 2, Plumb. Item 6: **To the Drawings, Sheet P6.01, "Plumbing Fixture Schedules,"**
a. Revise description of sink type "SK-4".

END OF PLUMBING ADDENDUM

Huckabee

MORE THAN ARCHITECTS

MEETING MINUTES

PRE-PROPOSAL MEETING

Project Name:	Cy Ranch HS Addition & Renovation	**Date of Meeting**: 11/20/2024
Owner:	Cypress-Fairbanks ISD	**Time of Meeting**: 10:00am
Location:	11430-B Perry Road, Houston, Texas 77064	
Place of Meeting:	Facilities & Construction Conference Room	
Project No:	01818-06-01 / CFISD Proposal Number: 24-02-5745R-RFP	
Meeting Subject:	PRE-PROPOSAL MEETING	
Attendees:	See sign in Sheet	

- **INTRODUCTION OF TEAM, INCLUDING DISTRICT REPRESENTATIVES, AND HUCKABEE REP**

- **PROPOSAL INFORMATION**

Project: 2024 Cy Ranch HS Renovation; Cypress-Fairbanks I.S.D. Proposal Number: 23-10-5723-R--RFP
Who: Proposal addressed to: Mr. Jesse Clayburn, Assistant Supt. of Facilities and Construction
Where: Facilities, Planning & Construction; 11430-B Perry Road, Houston, Texas 77064
When: Bid Date: ~~February 15, 2024~~; Discussion to revise to Thursday December 5,2024 (Will be Issued in Addendum); Base Bid Time: 2:00pm; Alternate Bid Time: 3:00pm.

- **ITEMS:**

1 Document AB - Instructions to Offerors
   a. Contractor Information and Experience Statement (AIA Document A305TM-1986).
      i. **By 5:00P.M. on Monday, November 25, 2025** – Submitted by email to Huckabee, no faxes will be accepted.
   b. References - refer to Exhibit A on page AB-9

2 Substitutions of Materials and Equipment
   a. Requests can be made via email by sending a Substitution Request form at least 5 days prior to the date of proposal.
   b. Approvals only by Addendum
   c. No substitutions after Contract Award

3 Performance & Payment Bonds – Each Offeror shall include in his base proposal the premium costs for 100% Performance Bond and 100% Payment Bond.

4 Submission of Additional Proposal Information
   a. Submit with Alternate Proposals – Proposal Form AC Alternates:
   b. An experience profile (resumes) of the proposed superintendent(s) and project manager(s).
      i. The firm names of the major subcontractors and/or suppliers requested on the Alternate Proposal form AF.
      ii. Signed and Notarized Special Owner Requirements Sections 01 35 23 and 01 35 23.1.

5 Felony Conviction Notification – Form AE – within sealed envelope with Base Proposal

6 Proposal Evaluation Waiver – Form AG - within sealed envelope with Base Proposal

7 Affidavit of Non-Discriminatory Employment – Form AH - within sealed envelope with Base Proposal

8 Conflict of Interest Questionnaire – Form AN - within sealed envelope with Base Proposal

9 Proposal Security – Proposal Bond - Form AD - amount shall be not less than ten percent (10%) of the greatest amount proposed (considering alternates, if any). - submitted within the sealed envelope containing Alternate Proposals.

10 Submission of Post Proposal Information – **(AB Article 1, page AB-1)** submit, *by 5:00P.M. on Wednesday, December 4, 2024.*

a. A bar-chart construction schedule
b. Offeror's proposed management concept
c. Work to be self-performed
d. Fully executed Contractor Qualification Statement Form, AIA A305
e. Any voluntary Value Engineering items
f. The selected Offeror shall execute Form AL, Certification of Project Compliance, and submit at Project Closeout.
g. The selected Offeror shall execute and submit Form AP, Certification of Criminal History Record Information within 10 days after receipt of Notice to Proceed and prior to commencement of Work.

11 All documents can be obtained from www.huckabee-inc.com/construction

12 ALL QUESTIONS MUST BE SENT IN WRITING TO Patrick Reid and Susan Wisa, email to patrick.reid@huckabee-inc.com and susan.wisa@huckabee-inc.com . **Verbal responses are not considered binding. Do not contact the Owner, All questions to be directed to Huckabee. Answers will be issued in an Addendum**

13 All Addenda will be posted to Huckabee's website.
Moving FFE and Dumpster will be addressed in a Contingency

- **SCHEDULE:**

Board Meeting award: January 16, 2025
Notice to proceed: The Owner or the Architect, on behalf of the Owner, will issue a written Notice to Proceed 10 days following Board Award.
Substantial completion: July 26, 2026
Proposed Construction Phasing: see SECTION 01 10 00 SUMMARY OF WORK
Refer to CFISD Academic & Testing Calendars for the 2024-2025 & 2025-2026 school year.

- **SCOPE:**

Cy Ranch High School Addition & Renovation: (including, but not limited to)
Architectural renovations: New flooring and select hardware campus wide.
Security upgrades
Building Additions include: Black box and two new art rooms, orchestra practice rooms and ensemble
Outdoor storage building for Athletics

Athletic Field: 2 additional tennis courts
Replace exterior Building wall sealants
Restripe site parking and drives including Band Practice area (to be repainted to match existing marching lines)
Auditorium technology, sound, and lighting work
Retention Pond: Some maintenance work on the wall including new sealant on the perimeter sidewalk. (Sealant had been identified, but GC to confirm Quantities). Repair of the pilot channel, Regrading pond bottom slope from wall to increase capacity. Pond does nave a clay liner.
MEP will replace noted piping insulation and new AC units in IDF/MDF.

It was noted that Cy Ranch has the central plant serving Warner Elementary and Smith Middle School. It is critical service is always maintained and operational.

- **BUDGET:** $ 16,709,206.00

- **ALTERNATES: (SECTION 01 23 00)**

  1. **Base Bid Adjustment –** Adjustments to the GC's Base Proposal submitted at 2:00pm, if necessary.
  2. There will be an alternate for potential relocation of chilled water lines at the tennis courts, however if lines remain no monies or work will be expended for this item.

- **ALLOWANCES:**

  - (Section 01 21 00) To be issued via addendum. Will be issued in Addendum2 prior to end of the week
  - to be included in proposal amount
  - No Overhead & Profit shall be included in CPR pricing.

- **LIQUIDATED DAMAGES:** (AIA-A201, 8.4.1)

  $3,000/calendar day – High School

- **CAMPUS TOURS:**

  Site walks will be offered following this pre-proposal meeting, on Wednesday November 20, 2024 at 11am.

  Millennium and ICI Attended On Site Review

  Permit status will be verified by Huckabee

END OF PRE-PROPOSAL CONFERENCE

MORE THAN ARCHITECTS

SIGN IN SHEET

Project Name: Cy Ranch Addition & Renovation
Client: Cypress-Fairbanks ISD
Location: Houston, TX
Project No: 1818-06-01 / CFISD Proposal Number: 24-02-5745R-RFP
Meeting Subject: Pre-Proposal Conference

Date of Meeting: November 20th, 2024
Time of Meeting: 10:00 AM
Place of Meeting: Cypress-Fairbanks ISD
Facilities, Planning & Construction Office 129C

PLEASE PRINT

NAME	COMPANY	EMAIL	PHONE
STUART CAMPBELL	HUCKABEE	stuart.campbell@huckabee-inc.com	832 289 4789
Jeff Schafer	ICI Construction	bids@iciconstructioninc.com	281-355-5151
Austin Hill	ICI Construction		346-328-0419
Patrick Reed	HUCKABEE	Patrick.reed@huckabee-inc.com	832 221 0046
Morgan DeBorde	Flintco	morgan.deborde@flintco.com	(713) 822-2300
Glenda Ewing	Millennium	estimating@mps-team.com	281-328 5000
Tiffany Banks	CFISD	tiffany.banks@cfisd	832 302 7431
SEAN HOOVER	SALAS OBRIEN	SEAN.HOOVER@SALASOBRIEN	281 664 1900
Ashley Abbott	CFISD	ashley.abbott@cfisd.net	713-542-6312
Brandon Watson	Division One Construction	bid@d1construction.com	713-688-7330
MIKE NEUMANN	DALLY + ASSOC	mneumann@dallyassociates.com	713-337-8881
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SHANNON THOMPSON	CFISD	SHANNON.THOMPSON@CFISD.NET	
Mitchell McLashland	M Scott Construction	Scott@mscottconstruction.com	281-250-3623
DAN GROSZ	CFISD		
MIKE TORRES	TRI-STAR GLASS		
MIKE WHITMAN	TRI-STAR GLASS	tristar409@yahoo.com	409-284-4796

Harry Giannakis	RABA KISTNER	hgiannakis@rkci.com	832-610-7850

SECTION 00 0115
LIST OF DRAWING SHEETS

PART 1 - GENERAL

1.01 SUMMARY

A. Following are the drawings which form a part of the contract, as set forth in subparagraph 1.1.1 of the accompanying "General Conditions of the Contract for Construction".

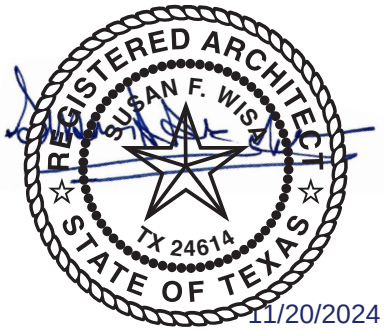
1.02 TITLE OF DRAWINGS:

GENERAL

G1.01	COVER SHEET
G1.02	GENERAL DATA
G2.01	CODE ANALYSIS PLAN
G2.02	ENLARGED CODE ANALYSIS
G2.03	HARRIS COUNTY FIRE CODE DESIGN AND COMPLIANCE REVIEW SHEET
G2.04	FIRE PROOFING PLAN
G3.01	EXTERIOR WALL, INTERIOR PARTITION, & ROOF TYPES
G3.02	TYPICAL INTERIOR PARTITION AND PENETRATION DETAILS
G3.03	TYPICAL WALL PENETRATIONS - ACOUSTICAL
G4.01	TEA COMPLIANCE
G5.01	SCHEDULE OF MATERIALS AND COLORS
G6.01	MASTER PLAN - PHASING SITE PLAN
G6.02	MASTER PLAN - PHASING FIRST FLOOR
G6.03	MASTER PLAN - PHASING SECOND FLOOR

CIVIL

C0.01	TOPOGRAPHIC SURVEY 1 OF4
C0.02	TOPOGRAPHIC SURVEY 2 OF 4
C0.03	TOPOGRAPHIC SURVEY 3 OF 4
C0.04	TOPOGRAPHIC SURVEY 4 OF 4
C1.00	FIRE ACCESS PLAN
C1.01	HCED REVIEW SHEET
C1.02	DETENTION POND HCPID EXPRESS REVIEW SHEET (FOR REFERENCE ONLY)
C1.03	HCFCD REVIEW SHEET
C2.00	OVERALL CIVILSITE PLAN
C3.01	PARKING - DEMOLITION PLAN SHEET 1 OF 4
C3.02	PARKING - DEMOLITION PLAN SHEET 2 OF 4
C3.03	PARKING - DEMOLITION PLAN SHEET 3 OF 4
C3.04	PARKING - DEMOLITION PLAN SHEET 4 OF 4
C4.01	PARKING - STRIPING SHEET 1 OF 4
C4.02	PARKING - STRIPING SHEET 2 OF 4
C4.03	PARKING - STRIPING SHEET 3 OF 4
C4.04	PARKING - STRIPING SHEET 4 OF 4
C5.00	FINE ARTS ADDITION - DEMOLITION PLAN
C6.00	FINE ARTS ADDITION - LAYOUT PLAN
C7.00	FINE ARTS ADDITION - PAVING PLAN
C8.00	FINE ARTS ADDITION - GRADING PLAN
C9.00	FINE ARTS ADDITION - UTILITY PLAN



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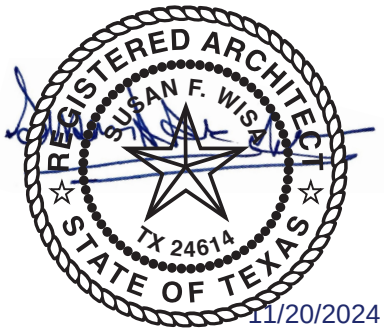
C10.00	FINE ARTS ADDITION - SWPPP
C11.00	TENNIS COURTS - DEMOLITION PLAN
C12.00	TENNIS COURTS - LAYOUT PLAN
C13.00	TENNIS COURTS - PAVING PLAN
C14.00	TENNIS COURTS - GRADING PLAN
C15.00	TENNIS COURTS - UTILITY PLAN
C16.00	TENNIS COURTS - SWPPP
C17.00	ATHLETICS STORAGE BUILDING - DEMOLITION PLAN
C18.00	ATHLETICS STORAGE BUILDING - LAYOUT PLAN
C19.00	ATHLETICS STORAGE BUILDING - PAVING AND GRADING PLAN
C20.00	ATHLETICS STORAGE BUILDING - UTILITY PLAN
C21.00	ATHLETICS STORAGE BUILDING - SWPPP
C22.00	DETENTION POND - LAYOUT PLAN
C23.00	SWPPP DETAILS
C23.01	MISCELLANEOUS DETAILS SHEET 1 OF 3
C23.02	MISCELLANEOUS DETAILS SHEET 2 OF 3
C23.03	MISCELLANEOUS DETAILS SHEET 3 OF 3
C24.01	DETENTION POND SERVICE AREA (FOR REFERENCE ONLY)
C24.02	DETENTION BASIN LAYOUT (FOR REFERENCE ONLY)
C24.03	STORM WATER QUALITY DETAILS (FOR REFERENCE ONLY)
C24.04	FLOATABLES COLLECTION SCREEN DETAIL (FOR REFERENCE ONLY)

LANDSCAPE & IRRIGATION

IR1.01	IRRIGATION PLAN
IR2.01	IRRIGATION DETAILS

ARCHITECTURAL SITE

AS1.01	SITE DEMOLITION PLAN
AS1.02	ARCHITECTURAL SITE PLAN
AS1.03	ENLARGED SITE PLAN - FINE ARTS & ATHLETICS
AS1.04	SITE PLAN DETAILS
AS1.05	CANOPY PLANS AND DETAILS
AS2.01	ATHLETICS STORAGE - FLOOR PLAN, ELEVATIONS AND BUILDING SECTIONS
AS2.02	ATHLETICS STORAGE - WALL SECTIONS AND DETAILS



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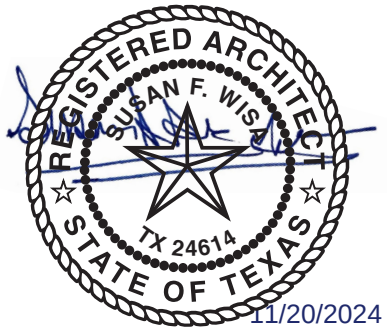
STRUCTURAL

S001	3D VIEW AND SHEET LIST
S101	GENERAL STRUCTURAL CRITERIA
S102	GENERAL STRUCTURAL CRITERIA
S201	FOUNDATION PLAN - OVERALL
S201A	FOUNDATION PLAN- AREA G&F
S201B	FOUNDATION PLAN- PEMB
S201C	FOUNDATION PLAN-TENNIS COURT
S202	LOW ROOF FRAMING PLAN - OVERALL
S202A	LOW ROOF FRAMING PLAN- AREA G&F
S203	HIGH ROOF FRAMING PLAN - OVERALL
S203A	HIGH ROOF FRAMING PLAN - AREA G&F
S301	SCHEDULES
S302	COLUMN AND BASEPLATE SCHEDULE
S401	TYPICAL SLAB ON GRADE DETAILS
S402	TYPICAL GB AND CF DETAILS
S403	SOG @ GB
S404	SOG @ PEMB
S405	SITE DETAILS
S501	TYPICAL STEEL DETAILS
S502	TYPICAL COLD FORMED METAL FRAMING DETAILS
S503	TYPICAL CMU WALL DETAILS
S601	TYPICAL STEEL ROOF DETAILS
S602	STEEL ROOF DETAILS
S603	STEEL ROOF DETAILS



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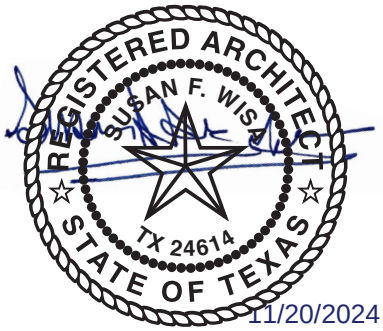
ARCHITECTURAL DEMOLITION

AD1.01	AREA A1 - DEMOLITION PLAN - FIRST FLOOR
AD1.02	AREA B1 & BB1 - DEMOLITION PLAN - FIRST FLOOR
AD1.03	AREA C1 - DEMOLITION PLAN - FIRST FLOOR
AD1.04	AREA D1 - DEMOLITION PLAN - FIRST FLOOR
AD1.05	AREA E1 - DEMOLITION PLAN - FIRST FLOOR
AD1.06	AREA F1 - DEMOLITION PLAN - FIRST FLOOR
AD1.07	AREA G1 - DEMOLITION PLAN - FIRST FLOOR
AD1.08	AREA H1 - DEMOLITION PLAN - FIRST FLOOR
AD1.09	AREA I1- DEMOLITION PLAN - FIRST FLOOR
AD1.10	AREA J1 - DEMOLITION PLAN - FIRST FLOOR
AD1.11	AREA B2 & BB2 - DEMOLITION PLAN - SECOND FLOOR
AD1.12	AREA C2 - DEMOLITION PLAN - SECOND FLOOR
AD1.13	AREA D2 - DEMOLITION PLAN - SECOND FLOOR
AD1.14	AREA E2 - DEMOLITION PLAN - SECOND FLOOR
AD1.15	AREA H2 & I2 - DEMOLITION PLAN - SECOND FLOOR
AD1.16	AREA J2 - DEMOLITION PLAN - SECOND FLOOR
AD1.17	MASTER - 1ST-2ND FLOOR DEMOLITION REFLECTED CEILING PLAN
AD1.18	AREA G1 - DEMOLITION RCP PLAN - FIRST FLOOR

ARCHITECTURAL



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A0.01	MASTER PLAN - FIRST FLOOR
A0.02	MASTER PLAN - SECOND FLOOR
A1.01	AREA A1 - FIRST FLOOR PLAN
A1.02	AREA B1 & BB1 - FIRST FLOOR PLAN
A1.03	AREA C1 - FIRST FLOOR PLAN
A1.04	AREA D1 - FIRST FLOOR PLAN
A1.05	AREA E1 - FIRST FLOOR PLAN
A1.06	AREA F1 - FIRST FLOOR PLAN
A1.07	AREA G1 - FIRST FLOOR PLAN
A1.08	AREA H1 - FIRST FLOOR PLAN
A1.09	AREA I1 - FIRST FLOOR PLAN
A1.10	AREA J1 - FIRST FLOOR PLAN
A1.11	AREA L1 - FIRST FLOOR PLAN
A1.12	AREA B2 & BB2 - SECOND FLOOR PLAN
A1.13	AREA C2 - SECOND FLOOR PLAN
A1.14	AREA D2 - SECOND FLOOR PLAN
A1.15	AREA E2 - SECOND FLOOR PLAN
A1.16	AREA H2 & I2 - SECOND FLOOR PLAN
A1.17	AREA 'J2' - SECOND FLOOR PLAN
A1.18	PLAN DETAILS
A2.01	AREA A1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.02	AREA B1 & BB1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.03	AREA C1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.04	AREA D1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.05	AREA E1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.06	AREA F1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.07	AREA G1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.08	AREA H1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.09	AREA I1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.10	AREA J1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.11	AREA A2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.12	AREA B2 & BB2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.13	AREA C2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.14	AREA D2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.15	AREA E2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.16	AREA F2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.17	AREA H2 & I2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.18	AREA J2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.19	CEILING DETAILS
A3.01	DOOR SCHEDULES AND CONFIGURATIONS
A3.02	DOOR SCHEDULES
A3.03	STOREFRONT CONFIGURATIONS & DOOR AND WINDOW DETAILS
A4.01	AREA A1 - FINISH PLAN - FIRST FLOOR
A4.02	AREA B1 & BB1 - FINISH PLAN - FIRST FLOOR
A4.03	AREA C1 - FINISH PLAN - FIRST FLOOR
A4.04	AREA D1 - FINISH PLAN - FIRST FLOOR

A4.05	AREA E1 - FINISH PLAN - FIRST FLOOR
A4.06	AREA F1 - FINISH PLAN - FIRST FLOOR
A4.07	AREA G1 - FINISH PLAN - FIRST FLOOR
A4.08	AREA H1 - FINISH PLAN - FIRST FLOOR
A4.09	AREA I1 - FINISH PLAN - FIRST FLOOR
A4.10	AREA J1 - FINISH PLAN - FIRST FLOOR
A4.11	AREA B2 & BB2 - FINISH PLAN - SECOND FLOOR
A4.12	AREA C2 - FINISH PLAN - SECOND FLOOR
A4.13	AREA D2 - FINISH PLAN - SECOND FLOOR
A4.14	AREA E2 - FINISH PLAN - SECOND FLOOR
A4.15	AREA H2 & I2 - FINISH PLAN - SECOND FLOOR
A4.16	AREA J2 - FINISH PLAN - SECOND FLOOR
A4.17	INTERIOR ELEVATIONS
A4.18	TYP INTERIOR DETAILS
A5.01	EXTERIOR ELEVATIONS
A6.01	BUILDING SECTIONS
A6.02	WALL SECTIONS
A6.03	WALL SECTION DETAILS
A7.01	ROOF PLAN - AREA F & G
A7.02	TYPICAL ROOFING DETAILS
A7.03	TYPICAL ROOFING DETAILS
A8.01	CASEWORK LEGENDS AND ELEVATIONS
A9.01	EXPANSION JOINT DETAILS

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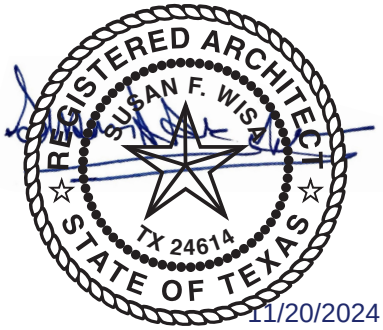
PLUMBING

P0.01	PLUMBING DEMOLITION FIRST FLOOR PLAN - AREA F
P0.02	PLUMBING DEMOLITION FIRST FLOOR PLAN - AREA G
P1.00	PLUMBING COMPOSITE FLOOR PLANS
P1.01	PLUMBING SITE PLAN
P2.01	PLUMBING UNDERFLOOR PLAN - AREA F
P2.02	PLUMBING UNDERFLOOR PLAN - AREA G
P3.01	PLUMBING FIRST FLOOR PLAN - AREA F
P3.02	PLUMBING FIRST FLOOR PLAN - AREA G
P4.01	PLUMBING ROOF PLAN
P5.01	PLUMBING DETAILS
P5.02	PLUMBING DETAILS
P6.01	PLUMBING FIXTURE SCHEDULES

MECHANICAL

M0.01	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA B & BB
M0.02	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA C
M0.03	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA D
M0.04	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA E
M0.05	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA F
M0.06	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA G
M0.07	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA H
M0.08	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA I
M0.09	MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA J
M0.10	MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA C
M0.11	MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA D
M0.12	MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA E
M0.13	MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA H
M0.14	MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA I
M1.01	MECHANICAL SITE PLAN
M1.02	MECHANICAL ENLARGED SITE PLANS
M2.01	MECHANICAL FIRST FLOOR PLAN - AREA A
M2.02	MECHANICAL FIRST FLOOR PLAN - AREA B & BB
M2.03	MECHANICAL FIRST FLOOR PLAN - AREA C
M2.04	MECHANICAL FIRST FLOOR PLAN - AREA D
M2.05	MECHANICAL FIRST FLOOR PLAN - AREA E
M2.06	MECHANICAL FIRST FLOOR PLAN - AREA F
M2.07	MECHANICAL FIRST FLOOR PLAN - AREA G
M2.08	MECHANICAL FIRST FLOOR PLAN - AREA H
M2.09	MECHANICAL FIRST FLOOR PLAN - AREA I
M2.10	MECHANICAL FIRST FLOOR PLAN - AREA J
M2.11	MECHANICAL SECOND FLOOR PLAN - AREA A
M2.12	MECHANICAL SECOND FLOOR PLAN - AREA B & BB
M2.13	MECHANICAL SECOND FLOOR PLAN - AREA C
M2.14	MECHANICAL SECOND FLOOR PLAN - AREA D
M2.15	MECHANICAL SECOND FLOOR PLAN - AREA E
M2.16	MECHANICAL SECOND FLOOR PLAN - AREA F
M2.17	MECHANICAL SECOND FLOOR PLAN - AREA G
M2.18	MECHANICAL SECOND FLOOR PLAN - AREA H
M2.19	MECHANICAL SECOND FLOOR PLAN - AREA I
M2.20	MECHANICAL SECOND FLOOR PLAN - AREA J
M2.21	MECHANICAL ROOF PLAN
M3.01	MECHANICAL NATATORIUM PLAN AND DIAGRAM
M4.01	MECHANICAL DETAILS
M5.01	MECHANICAL LEGENDS & SCHEDULES



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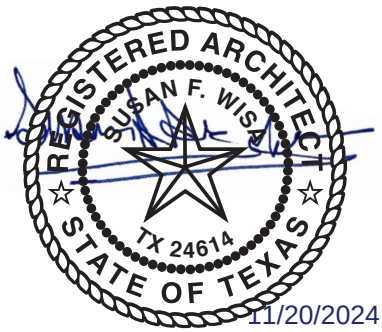
ELECTRICAL

E0.01	ELECTRICAL DEMOLITION FIRST FLOOR PLAN - AREA F
E0.02	ELECTRICAL DEMOLITION FIRST FLOOR PLAN - AREA G
E1.01	ELECTRICAL SITE PLAN
E1.02	ELECTRICAL SITE PLAN - ENLARGED FLOOR PLANS
E2.01	ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA F
E2.02	ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA G
E2.03	ELECTRICAL LIGHTING SECOND FLOOR PLAN - AREA F
E3.01	ELECTRICAL POWER FIRST FLOOR PLAN - AREA A
E3.02	ELECTRICAL POWER FIRST FLOOR PLAN - AREA B & BB
E3.03	ELECTRICAL POWER FIRST FLOOR PLAN - AREA C
E3.04	ELECTRICAL POWER FIRST FLOOR PLAN - AREA D
E3.05	ELECTRICAL POWER FIRST FLOOR PLAN - AREA E
E3.06	ELECTRICAL POWER FIRST FLOOR PLAN - AREA F
E3.07	ELECTRICAL POWER FIRST FLOOR PLAN - AREA G
E3.08	ELECTRICAL POWER FIRST FLOOR PLAN - AREA H
E3.09	ELECTRICAL POWER FIRST FLOOR PLAN - AREA I
E3.10	ELECTRICAL POWER FIRST FLOOR PLAN - AREA J
E3.11	ELECTRICAL POWER FIRST FLOOR PLAN - NATATORIUM
E3.12	ELECTRICAL POWER SECOND FLOOR PLAN - AREA A
E3.13	ELECTRICAL POWER SECOND FLOOR PLAN - AREA B & BB
E3.14	ELECTRICAL POWER SECOND FLOOR PLAN - AREA C
E3.15	ELECTRICAL POWER SECOND FLOOR PLAN - AREA D
E3.16	ELECTRICAL POWER SECOND FLOOR PLAN - AREA E
E3.17	ELECTRICAL POWER SECOND FLOOR PLAN - AREA H
E3.18	ELECTRICAL POWER SECOND FLOOR PLAN - AREA I
E3.19	ELECTRICAL POWER SECOND FLOOR PLAN - AREA J
E6.01	ELECTRICAL PARTIAL DEMOLITION ONE-LINE DIAGRAM
E6.02	ELECTRICAL PARTIAL ONE-LINE DIAGRAM
E7.01	ELECTRICAL PANEL SCHEDULES
E7.02	ELECTRICAL PANEL SCHEDULES
E7.03	ELECTRICAL PANEL SCHEDULES
E7.04	ELECTRICAL PANEL SCHEDULES
E7.05	ELECTRICAL PANEL SCHEDULES
E7.06	ELECTRICAL PANEL SCHEDULES
E8.01	ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES
E8.02	ELECTRICAL LIGHTING CONTROLS DETAILS



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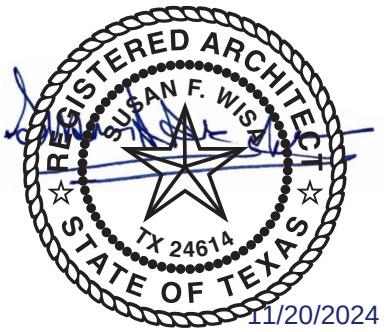
TECHNOLOGY

T0.00	TECHNOLOGY NOTES AND LEGENDS
T0.01	TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA D
T0.02	TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA G
T1.00	TECHNOLOGY COMPOSITE FLOOR PLANS
T1.01	TECHNOLOGY DEMOLITION SITE PLAN
T1.02	TECHNOLOGY SITE PLAN
T2.01	TECHNOLOGY FIRST FLOOR PLAN - AREA A
T2.02	TECHNOLOGY FIRST FLOOR PLAN - AREA B
T2.03	TECHNOLOGY FIRST FLOOR PLAN - AREA BB
T2.04	TECHNOLOGY FIRST FLOOR PLAN - AREA C
T2.05	TECHNOLOGY FIRST FLOOR PLAN - AREA D
T2.06	TECHNOLOGY FIRST FLOOR PLAN - AREA E
T2.07	TECHNOLOGY FIRST FLOOR PLAN - AREA F
T2.08	TECHNOLOGY FIRST FLOOR PLAN - AREA G
T2.09	TECHNOLOGY FIRST FLOOR PLAN - AREA H
T2.10	TECHNOLOGY FIRST FLOOR PLAN - AREA I
T2.11	TECHNOLOGY FIRST FLOOR PLAN - AREA J
T2.12	TECHNOLOGY FIRST FLOOR PLAN - NATATORIUM
T3.01	TECHNOLOGY ENLARGED PLANS
T5.01	TECHNOLOGY DETAILS
T5.02	TECHNOLOGY DETAILS
T5.03	TECHNOLOGY DETAILS
T5.04	TECHNOLOGY DETAILS
T5.05	TECHNOLOGY DETAILS



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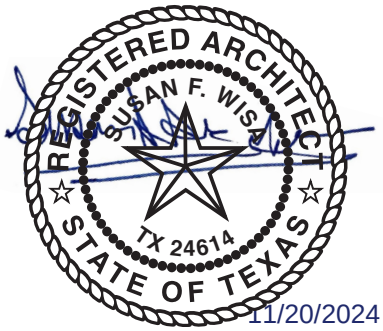
AUDIO-VISUAL

AV0.01	AUDIOVISUAL NOTES AND COORDINATION ADVISORIES
AV0.02	AUDIOVISUAL DEVICE LEGEND
AV0.03	AUDIOVISUAL CONDUIT RISER
AV0.10	AUDIOVISUAL DETAILS
AV0.11	AUDIOVISUAL DETAILS
AV0.12	AUDIOVISUAL DETAILS
AV0.13	AUDIOVISUAL DETAILS
AV1.06	AUDIOVISUAL FLOOR PLAN - AREA F - FIRST FLOOR
AV1.07	AUDIOVISUAL FLOOR PLAN - AREA G - FIRST FLOOR
AV1.16	AUDIOVISUAL FLOOR PLANS - AREA F - STAGE GALLERIES
AV2.06	AUDIOVISUAL REFLECTED CEILING PLAN - AREA F - FIRST FLOOR
AV2.07	AUDIOVISUAL REFLECTED CEILING PLAN - AREA G - FIRST FLOOR
AV2.16	AUDIOVISUAL REFLECTED CEILING PLAN - AREA F - SECOND FLOOR
AV6.01	AUDIOVISUAL BUILDING SECTIONS
AV6.02	AUDIOVISUAL ENLARGED VIEWS
AV7.01	AUDIOVISUAL SYSTEM NOTES
AV7.02	AUDIOVISUAL PLATE DETAILS
AV7.03	AUDIOVISUAL PLATE DETAILS
AV7.04	AUDIOVISUAL PLATE DETAILS
AV8.01	AUDIOVISUAL RACK ELEVATIONS

AV9.01	AUDIOVISUAL ONELINE DIAGRAM
AV9.02	AUDIOVISUAL ONELINE DIAGRAM
AV9.03	AUDIOVISUAL ONELINE DIAGRAM
AV9.04	AUDIOVISUAL ONELINE DIAGRAM
AV9.05	AUDIOVISUAL ONELINE DIAGRAM



11/20/2024

THEATER

TE0.00	TE - NOTES & LEGENDS
TE2.07	TE - AREA 'G1' - FIRST FLOOR PLAN
TE3.00	TE - SECTIONS AND ELEVATIONS
TE4.07	TL - AREA 'G1' - FIRST FLOOR REFLECTED CEILING PLAN
TL0.00	TL - GENERAL NOTES & LEGENDS
TL0.01	TL - SCHEDULES
TL0.02	TL - SCHEDULES
TL2.06	TL - AREA 'F1' - FIRST FLOOR PLAN
TL2.07	TL - AREA 'G1' - FIRST FLOOR PLAN
TL3.00	TL - SECTIONS AND ELEVATIONS
TL4.07	TL - AREA 'G1' - FIRST FLOOR REFLECTED CEILING PLAN
TL7.01	TL - AREA 'F1' - SCHEMATIC
TL7.02	TL - AREA 'G1' - SCHEMATIC

END OF SECTION

SECTION 01 10 00

SUMMARY OF WORK

CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to this Section.

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. Project, **2024 Cy Ranch HS Renovation**, with campus locations at the following addresses:

- 10700 Fry Road, Cypress, Texas 77433

for the Cypress-Fairbanks Independent School District.

B. The Project(s) consists of but is not limited to:

Addition of Orchestra practice rooms, two art rooms, black box, stage storage at auditorium, replacement of auditorium A/V systems and controls and theatrical light fixtures, mechanical upgrades, and security enhancements.

C. Project Schedule:

1. Substantial Completion date: July 26, 2026

2. General phasing requirements refer to Part 3.1.B below.

1.2 CONTRACTS AND USE OF SITE

A. Contractor Use of Premises:

1. Confine operations at site to areas permitted by law, permits, and Contract Documents, or as required to maintain campus operations (as approved by Owner).
2. Do not unreasonably encumber site with materials or equipment. Refer to Contractor lay-down areas indicated on plans. If not indicated on plans provided, Contractor to submit for approval proposed Contractor designated areas, including but not limited to: lay-down, staging, parking, restroom, trailer, dumpster, field office, etc.
3. Assume full responsibility for protection and safekeeping of products stored on premises.
4. Obtain and pay for use of additional storage or work areas as needed for operations.
5. Contractor shall establish secured staging area for work and coordinate and provide for safe passage and exit from existing building areas during construction, in compliance with all applicable codes and requirements of Owner.
6. During phased construction, Contractor shall provide maps of building to Owner for each phase, showing construction area and impact to other areas of the building.
7. Contractor shall coordinate all construction activities with school district officials.
8. Owner reserves the right to perform construction operations with its own forces or to employ separate contractors on portions of the Project. General Contractor shall coordinate with Owner-performed work in terms of providing site access, workspace, and storage space, cooperation of work forces, scheduling, and technical requirements.
9. Noise Control: Contractor shall coordinate equipment locations and timing of work activities so as to avoid conflict with the building occupants and/or avoid interference with facility meetings, events or other activities.
10. Utilities. The contractor is to coordinate all utilities permanent and temporary and make arrangements for installation for any service easements once the Owner provides information that a blanket or final easement exists.
11. Project Fencing:

a. Upon mobilization, the contractor shall build a wire mesh fence (or other type) as directed by Owner, at least six (6) feet high as shown on site plan and/or discussed during the pre-construction meeting.
b. Site fencing shall include emergency service and trucking gated in locations shown on the site plan and/or discussed during the pre-construction meeting.
c. Contractor shall properly maintain fencing and gates until Substantial Completion and only remove with concurrence from the Owner.

B. Owner Occupancy:
1. Refer to AIA Document A201™–2017, as amended.

C. Owner-Furnished/Owner-Installed Items:
1. The Owner reserves the right to place and install equipment in construction areas of the building prior to Substantial Completion, provided that such occupancy does not interfere with completion of the Work. Such placing of equipment shall not constitute acceptance of the total Work. Contractor shall protect Owner's property.

D. Owner-Furnished/Contractor-Installed Items:
1. The Owner may provide items to the Contractor for installation in accordance with manufacturer's recommendation and instructions.
2. The Owner will arrange and pay for delivery of Owner-furnished items in accordance with the Contractor's Construction Schedule and will inspect deliveries for damage.
3. If Owner-furnished items are damaged, defective or missing, through no fault of the Contractor, the Owner will arrange for replacement.
4. The Contractor is responsible for designating the delivery dates of Owner-furnished items in the Contractor's Construction Schedule and for receiving, unloading and handling Owner-furnished items at the site. The Contractor is responsible for protecting Owner-furnished items from damage, including damage from exposure to elements, and to repair or replace items damaged as a result of his operations.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Refer to Specification Sections.

PART 3 - EXECUTION

3.1 CONSTRUCTION SCHEDULE

A. GENERAL DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS CONTRACT

The Work to be performed under this contract shall commence on Notice to Proceed and shall be Substantially Complete as stipulated by AIA Document A101™–2017, as amended.

B. GENERAL CONSTRUCTION PHASING REFERENCING CFISD NEEDS BELOW, SHALL BE INCORPORATED INTO THE CONTRACT, INCLUDING BUT NOT LIMITED TO:

For the summer of 2025:

- Contractors may take over the building June 2, 2025.
- All athletic areas are to remain fully occupiable for the duration of the summer. Any work in the athletic areas will need to be coordinated with the campus. For gym work, only one gym can be under construction at any given time.
- All athletic, fine arts, dance, and cafeteria areas must be fully occupiable no later than July 15, 2025.

- The balance of the building shall be fully occupiable and turned back over to the district no later than July 27, 2025.
- Occupiable includes, but is not limited to, all life safety, MEP, architectural finishes in place, clean, and functioning as intended.
- Only work that can be removed and re-installed by these dates shall be performed during the summer.
- No partially complete work will be allowed after these dates unless approved in advance by the Owner.
- After these dates, all work shall be performed after hours, nights and weekends, while fully coordinating with the campus.

For the summer of 2026:

- Contractors may take over the building June 1, 2026.
- All athletic areas are to remain fully occupiable for the duration of the summer. Any work in the athletic areas will need to be coordinated with the campus. For gym work, only one gym can be under construction at any given time.
- All athletic, fine arts, dance, and cafeteria areas must be fully occupiable no later than July 15, 2026.
- The balance of the building shall be **SUBSTANTIALLY COMPLETE**, fully occupiable, and turned back over to the district no later than July 26, 2026.
- Occupiable includes, but is not limited to, all life safety, MEP, architectural finishes in place, clean, and functioning as intended.
- Only work that can be removed and re-installed by these dates shall be performed during the summer.
- No partially complete work will be allowed after these dates unless approved in advance by the Owner.
- After these dates, all work shall be performed after hours, nights and weekends, while fully coordinating with the campus.

Furniture Campus

This campus is receiving new student and administrative furniture via separate contract. However, General Contractor to comply with the following:

General Contractor to coordinate with CFISD and CFISD's vendor to provide interior and exterior clear unobstructed paths and access points for deliveries, product staging, product assembly, setup and disposal.

These areas must be available no later than July 15, 2025 and July 15, 2026 respectively.

- Delivery points will be accessible, clear and drivable by numerous eighteen wheeler trucks over a period of several weeks at middle and high schools.
- Staging/assembly areas include but are not limited to commons cafeteria, gyms, large group instruction, larger hallways (not impeding HCFMO fire egress), etcetera.
- Phased installation may include but not be limited to first setting up administration areas then academic classrooms, and finally ancillary support spaces last possibly spilling over from Summer into Thanksgiving week, Winter Break and Spring Break week if necessary
- As a guide, it is anticipated middle school furniture requires 2-3 weeks and high schools 3-4 weeks for phased installations.

New Fire Alarm System

Existing fire alarm system to be replaced with all new system for the entire building including the addition(s). Existing fire alarm system to remain fully operational and monitored for the duration of the project until the new fire alarm system is inspected and approved by AHJ. Once new system is inspected and approved, all components associated with existing fire alarm to be fully removed. Refer to specification and drawings.

END OF SECTION

SECTION 01 21 00

ALLOWANCES

CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to the Section.

PART 1 – GENERAL

Refer to Document AB for Substitutions of Materials and Equipment

1.1 CONDITIONS

A. ALLOWANCES shall be included in the Contract sum as specified within this Specification Section in paragraph 3.1 below. These sums shall be reconciled as per AIA Document A201™–2017, as amended.

B. Where allowances are for materials only, the cost of delivery to the job site may be funded from such allowance.

C. Allowances are hereby established for the items in the amounts listed below. If any items exceed the amount listed, such excess cost shall be paid by the Owner. If any items cost less than the amount listed, the Owner shall be given a credit in the amount of the difference. Costs of items listed below are to be net costs to the General Contractor or Subcontractor, whichever makes the direct purchase.

D. The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. These allowances shall cover the net cost of the materials and equipment delivered and unloaded at the site, and all applicable taxes.
   1. The Contractor's handling costs on site, labor, installation cost, estimating, labor burden, overhead, profit and other expenses contemplated for the original allowances shall be included in the Contractor's Sum and not in the allowance. Subcontractor and sub-subcontractor markups are allowable as provided in AIA Document A201™–2017, as amended.
   2. The Contractor shall cause the work covered by these allowances to be performed for such amounts and by such persons as the Architect may direct, but he will not be required to employ persons against whom he makes reasonable objection.
   3. The cost, when determined, is more than or less than the allowance, the Contract Sum shall be adjusted accordingly by Change Order which may include additional handling costs on the site, labor, installation costs, overhead, profit, cleaning, as-builts, standard warranty, cost to update electronic record documents and other expenses resulting to the Contractor from any increase over the original allowance if approved.

E. Contractor shall proceed with the work in question only after receiving written directions executed by the Owner and the Architect. Owner will not be obligated to pay the cost of any work without prior authorization. This written directive shall consist of Owner’s representative and Architect’s signature on Change Proposal Request document submitted by General Contractor with any applicable amendments if required indicating such approval. The Architect and Owner shall respond in a timely manner to document approved Change Proposal Request (CPR) expenditures and credits from such allowances within the contract. The Contractor may request payment for such approved expenditures only upon completion of the work and the completion of a fully executed CPR formally documenting allowance expenditure credits. The Contractor's overhead and profit relative to these allowance sums and work performed in accordance herewith, shall be included in the total Proposal prices, thus not included in the allowance sum. Unexpended balance of allowance sums shall revert to the Owner by Change Order in the final settlement of the contract.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 ALLOWANCES

A. Owner's Betterment Allowance: $1,691,625.00

1. Contractor shall include the amount indicated above in his Base Proposal as a contingency to cover the cost of additional scope of work. Contractor shall proceed with the work in question only after receiving written directions executed by the Owner and the Architect. Owner will not be obligated to pay the cost of any work performed without prior written authorization. The Contractor's overhead and profit relative to this contingency sum and work performed in accordance herewith, shall be included in the total Base Proposal price, but not included in the contingency sum. Unexpended balance of contingency sums shall revert to the Owner via Change Order during project closeout. Other scopes to be funded from this allowance may include, but are not limited to:

Chilled water line reroute at tennis Courts
Furniture Moving and Relocation
BMCS Allowance
TDLR Allowance
Emergency Radio Amplification
Promethean Board Moving & Storage
Video Surveillance Agreement License Upgrade

END OF SECTION

AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor *where the basis of payment is a Stipulated Sum*

AGREEMENT made as of the 16TH day of JANUARY in the year 2025
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

Cypress-Fairbanks Independent School District
11430-B Perry Road
Houston, Texas 77064
Telephone: 281-897-4057
Fax: 281-897-3806

and the Contractor:
(Name, legal status, address and other information)

CONTRACTOR
(TBD)

Telephone:
Fax:

for the following Project:
(Name, location and detailed description)

2024 CY RANCH HS RENOVATION
CFISD Project Number: 24-02-5745R-RFP
Architect Project No. 1818-07-01

10700 Fry Road
Cypress, Texas 77433

The Architect:
(Name, legal status, address and other information)

Huckabee, Inc.
1700 City Plaza Dr.
City Place 1, Suite 125
Spring, TX 77389
281-520-4995

The Owner and Contractor agree as follows.

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

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

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

1 THE CONTRACT DOCUMENTS

2 THE WORK OF THIS CONTRACT

3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

4 CONTRACT SUM

5 PAYMENTS

6 DISPUTE RESOLUTION

7 TERMINATION OR SUSPENSION

8 MISCELLANEOUS PROVISIONS

9 ENUMERATION OF CONTRACT DOCUMENTS

10 INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), all sections of the Project Manual and Construction Documents, Drawings, Specifications, Addenda issued prior to execution of this Agreement, the Contractor's proposal and written amendments or addenda to the proposal, the Contractor's bonds and proof of insurance, other documents listed in this Agreement, Modifications issued after execution of this Agreement, and attached exhibits; these form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

"Construction Documents" means: all drawings, specifications, submittals, transmittals, deliverables, instructions to Contractors, and other documents, including those in electronic form, prepared by the Architect and the Architect's consultants and which set forth in detail the requirements for construction of the Project.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1

The date of commencement of the Work shall be:
(Check one of the following boxes.)

[ ] The date of this Agreement.

[X] A date set forth in a notice to proceed issued by the Owner. The Contractor may not commence construction, however, until all bonds and insurance required by the Contract Documents have been received by the Owner. All bonds and insurance will be reviewed and approved by the Owner for compliance with the Contract Documents prior to the Contractor mobilizing onsite. Upon Owner approval, the Contractor will be allowed to mobilize onsite.

[ ] Established as follows:
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than the date(s) listed below:

(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)

Portion of Work	Substantial Completion Date
Entire Scope of Work	July 26, 2026

subject to adjustments of the Contract Time as provided in the Contract Documents.

(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

Contractor shall achieve buy out of all subcontracts and trades within thirty (30) days following Notice to Proceed.

Contractor shall provide complete Schedule of Values within thirty (30) days following Notice to Proceed.

Liquidated Damages: Refer to AIA Document A201™–2017, General Conditions of the Contract for Construction as amended, Article 8.4.

(Paragraph deleted)
(Table deleted)
(Paragraphs deleted)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be XXXX ($00.00), subject to additions and deductions as provided in the Contract Documents.

§ 4.1.1 The Contract Sum contains an Owner's Betterment Allowance in the amount of One Million Six Hundred Ninety-One Thousand Six Hundred Twenty-Five Dollars ($1,691,625.00). This allowance is for the sole use of the Owner to be used for changes in the scope of the Work and for the betterment of the Project. Owner's authorized representative may approve any expenditure from Owner's Betterment Allowance without further Board of Trustees approval. If the Owner's Betterment Allowance is not expended or not fully expended, then any unused portion shall belong to the Owner and shall be credited to the Owner in calculating final payment.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:
(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

Base Proposal in the amount of.....$0.00

Total Contract Sum $0.00

Refer to Exhibit A (includes Base Proposal, Alternate Proposal(s) and Unit Price(s).)

(Table deleted)
(Paragraphs deleted)
(Table deleted)

(Paragraph deleted)

§ 4.3 Unit prices, if any:

(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit ($0.00)

Refer to Exhibit A, Form AC – Competitive Sealed Proposal Form, Base Proposal and Alternate Proposal

§ 4.4 Allowances included in the Contract Sum, if any:

(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Allowance Amount
Owner's Betterment Allowance	$1,691,625.00

(Paragraphs deleted)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be at equal one month intervals. No more than one (1) Application for Payment may be submitted within a given calendar month and shall be submitted to the Owner as required in AIA Document A201™–2017, as amended Article 9.3.6.

§ 5.1.3 The Owner shall make payment of the undisputed, certified amount to the Contractor not later than thirty (30) days after Owner received the Application for Payment, that has been certified by the Architect. If errors are discovered by the Owner in the certified Application for Payment, the Owner shall reject the Application for Payment and return it to the Contractor for correction. The specified time period for payment of such Application for Payment will start over on the date the Owner receives the corrected Application for Payment that has been re-certified by the Architect.

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule, unless objected to by the Architect and Owner, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

.1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of five percent (5.0%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.8 of AIA Document A201™–2017, General Conditions of the Contract for Construction; as amended;

.2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of five percent (5.0%);

.3 Subtract the aggregate of previous payments made by the Owner; and

.4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201™–2017, as amended.

(Paragraphs deleted)

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

.1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and

.2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201™–2017, as amended.

(Paragraphs deleted)

§ 5.1.8 Reduction or limitation of retainage, if any, shall be as follows:

(If it is intended, prior to Substantial Completion of the entire Work, to reduce or limit the retainage resulting from the percentages inserted in Sections 5.1.6.1 and 5.1.6.2 above, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)

The full applicable five percent (5.0%) retainage will be held until Final Completion of the Work associated with the Contract has been achieved.

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when:

.1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 12.2 of AIA Document A201–2017, as amended, and to satisfy other requirements, if any, which extend beyond final payment; and

.2 a final Certificate for Payment has been issued by the Architect.

.3 all project close-out documents in their entirety have been completed, submitted to and approved by the Owner.

§ 5.2.2 Upon verification and approval by the Architect and Owner that all Contract requirements have been completed in their entirety, the Contractor shall submit the final Application for Payment to the Architect for approval and certification. Upon receipt of such final Certificate for Payment, the Owner's final payment to the Contractor shall be made no later than thirty (30) days after the issuance of the Architect's final Certificate for Payment, or as follows:

If the Contractor submits the Final Application for Payment to the Architect prior to the verification and approval by the Architect and Owner that the Contractor has completed all Contract requirements, the Architect will return the Application for Final Payment to the Contractor as NOT APPROVED. If errors are discovered by the Owner in the certified Final Application for Payment, the Owner shall reject the Final Application for Payment and return it to the Contractor for correction. The specified time period for payment of such final Application for Payment will start over on the date the Owner receives the corrected final Application for Payment that has been certified by the Architect. Refer to AIA Document A201™–2017, Article 9 as amended.

§ 5.2.3 At the end of the project, after all work is completed according to the Contract Documents, including all closeout documents, the Owner shall release all retainage to the subcontractors, sub-subcontractors and vendors. The retainage for the General Contractor, including, but not limited to, all work self-performed by the General Contractor; and all general condition line items, shall be held until all lien releases have been provided to and accepted by the Owner.

The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment.

§ 5.3 Interest

Payments due and unpaid under the Contract

(Paragraphs deleted)

for undisputed amounts shall bear interest pursuant to Texas Prompt Payment Act.

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1

(Paragraphs deleted)

Refer to AIA Document A201–2017, Article 4 as amended. For any Claim or dispute not resolved by the process in Article 4 of AIA Document A201-2017, as amended, the method of binding dispute resolution shall be litigation in a court of competent jurisdiction.

(Paragraphs deleted)

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017, as amended.

(Paragraphs deleted)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017, as amended.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017, as amended or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The

(Paragraphs deleted)

Agreement shall be governed by the laws of the State of Texas, and any litigation shall be conducted in state district court. Mandatory and exclusive venue shall be in Harris County, Texas.

§ 8.3

(Paragraphs deleted)

As a material consideration of the making of this Agreement, the modifications to this Agreement shall not be construed against the maker of said modifications.

§ 8.4 Notwithstanding anything to the contrary in this Agreement, or in any document forming a part hereof, there shall be no mandatory arbitration for any dispute arising hereunder.

§ 8.5 The Contractor may not assign its responsibilities, duties, obligations, and rights under this Agreement, without the express written consent of the Owner. This does not prevent Contractor from engaging subcontractors to perform various phases of the Project, but Contractor shall be fully responsible to Owner for the Work, actions, and omissions of all such subcontractors.

(Paragraphs deleted)

§ 8.6

(Paragraphs deleted)

This Agreement, in its entirety, shall be binding upon all the parties hereto, their respective successor, heirs, executors, administrators, or assigns.

§ 8.7 Execution of this Agreement shall constitute approval and acceptance of all terms, covenants, and conditions as modified and contained in the Contract Documents.

§ 8.8 This Agreement is subject to all applicable federal and state laws, rules, and regulations. Invalidity of any portion of this Agreement under the law of the State of Texas or of the United States shall not affect the validity of the remainder of this Agreement.

§ 8.9 Contractor stipulates that Owner is a political subdivision of the State of Texas, and, as such, enjoys immunities from suit and liability as provided by the constitution and laws of the State of Texas. By entering into this Agreement,

Owner does not waive any of its immunities from suit and/or liability, except as otherwise specifically provided herein, and as specifically authorized by law.

§ 8.10 The Owner's representative:
(Name, address, email address, and other information)

Matthew Morgan
Chief Operations Officer/Associate Superintendent
Facilities, Construction & Support Services
Cypress-Fairbanks Independent School District
11440 Matzke Road
Cypress, Texas 77429
Telephone: (281) 517-2809
Fax: (281) 517-2114

Jesse Clayburn
Assistant Superintendent of Facilities and Construction
Cypress-Fairbanks Independent School District
11440 Matzke Road
Cypress, Texas 77429
Telephone: (281) 897-4057
Fax: (281) 897-3806

Tiffany Banks
Project Manager
Cypress-Fairbanks Independent School District
11430 Perry Road
Houston, Texas 77064
Telephone: (281) 897-4116
Fax: (281) 897-3806

§ 8.11 The Contractor's representative:
(Name, address, email address, and other information)

§ 8.12 Neither the Owner's nor the Contractor's representative shall be changed without ten (10) days written notice to the other party.

§ 8.13 Other Provisions

§ 8.13.1 All terms "Bidders" and "Bids" are modified to "Proposers" and "Proposals".
§ 8.13.2 Contractor and each subcontractor and sub-subcontractor assigning hereby assigns to Owner any and all claims for overages associated with this Contract which arises under the Antitrust laws of the United States, 15 U.S.C.A. Section 1, et.seq (1973).

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1
(Paragraphs deleted)
The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101–2017, Standard Form of Agreement Between Owner and Contractor, as amended.

§ 9.1.2 The General Conditions are AIA Document A201–2017, General Conditions of the Contract for Construction as amended.

Document	Title	Date	Pages
Section CA	Application for Payment Checklist		
Section CB	Supplementary Conditions to the General Conditions of the Contract for Construction as Amended		
Section CC	Right to Audit		

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
Exhibit A	Forms AC, AE, AF, AG, AH, AN and Resumes		

(Paragraph deleted)

Document	Title	Date	Pages
Exhibit B	Front End Documents Table of Contents		

§ 9.1.4 The Specifications:
(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Section	Title	Date	Pages
Exhibit C	Specifications Table of Contents		

§ 9.1.5 The Drawings:
(Paragraphs deleted)
(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Section	Title	Date	Pages
Exhibit D	Index of Drawings		

§ 9.1.6 The Addenda, if any:

Number	Date	Pages
Addendum No. 1		

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201–2017, as amended provides that bidding requirements such as advertisement or invitation to bid, Instructions to Bidders, sample forms and the Contractor's bid are not part of the Contract Documents unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)

Section	Title	Date	Pages
Exhibit E	Section 01 35 23 Special Owner Requirements		
Exhibit F	Post Proposal Addendum No. X (If Applicable)		

ARTICLE 10 INSURANCE AND BONDS

§ 10.1 The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201–2017, as amended and Section BD of the project specifications.

This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*	**CONTRACTOR** *(Signature)*
Scott Henry, President of the Board of Trustees or Administrative Designee Administrative Designee: Mr. Matthew Morgan, Chief Operations Officer/Associate Superintendent of Facilities, Construction & Support Services	
(Printed name and title)	*(Printed name and title)*

DOCUMENT AA

REQUEST FOR COMPETITIVE SEALED PROPOSALS

Competitive Sealed Proposals for the work described below in accordance with Proposal Documents and addenda as may be issued prior to date of proposal opening will be received by the Board of Trustees, Cypress-Fairbanks Independent School District, until proposal closing date and time, as identified below. Proposals from Offerors will then be opened in public and read aloud.

OWNER: Cypress-Fairbanks Independent School District
11440 Matzke Rd.
Cypress, Texas 77429
Representative: Mr. Jesse Clayburn, Assistant Supt. of Facilities and Construction

ARCHITECT: Huckabee, Inc.
1700 City Plaza Dr.
City Place 1, Suite 125
Spring, Texas 77389
281-520-4995

PROJECT: **2024 Cy Ranch HS Renovation**
CFISD Proposal Number: 24-02-5745R-RFP

LOCATION: 10700 Fry Rd.
Cypress, Texas 77433

PROPOSED CONSTRUCTION BUDGET: **$ 16,709,206.00**

PRE-PROPOSAL CONFERENCE: **Wednesday, November 20, 2025, at 10:00 AM** at Cypress-Fairbanks Independent School District, Facilities & Construction Conference Room, 11430-B Perry Road, Houston, Texas 77064. Representatives of the Architect and Owner will be present at this meeting. All offerors are encouraged to attend.

PROPOSAL DATE AND TIME: **Tuesday, December 5, 2025,** Base Proposal: 2:00 PM
Alternate Proposal: 3:00 PM

LOCATION OF PROPOSAL OPENING: Cypress-Fairbanks Independent School District
Facilities and Construction
11430-B Perry Road
Houston, Texas 77064
(281) 897-4108

Proposal Documents will be available on **Monday, November 11, 2025**. General Contractor Offerors may obtain two (2) sets of drawings and specifications at the place identified below upon deposit of **$100.00** per set with check made payable to Huckabee **Architects**. The deposit will be returned when the Plans and Specifications are returned in good condition. Additionally, General Contractor Offerors must submit of a fully executed AIA Document A305, Contractor's Qualification Statement to the office of the Architect at the time proposal documents are obtained.

In addition, proposal documents can be reviewed at the following locations:

ISqFt Plan Room (AGC)
8450 Westpark, Ste. 100
Houston, Texas 77063
Ph: (713) 843-3700 Fx: (713) 843-3701

McGraw-Hill Construction/ Dodge Data & Analytics
www.dodgeplans.construction.com or contact Toni.Lawson@construction.com Ph: (281) 460-5730

Office of **Huckabee Architects**

FULL REFUND: Deposits will be returned provided all Contract Documents and addenda are returned to the Architect complete with all sheets bound in their original order within ten (10) days of the opening of proposals.

FORFEIT OF DEPOSIT: When the Documents are not returned under the conditions specified, none of the deposit will be returned. However, the Documents shall remain the property of the Owner and must be returned.

All proposals must be in the hands of the Owner no later than the time specified above. Please seal all proposals in duplicate in an envelope with the following information on the face of the envelope.

Name of Offeror (General Contractor)
2024 Cy Ranch HS Renovation
Cypress Fairbanks Independent School District
Cypress-Fairbanks I.S.D. Proposal Number: **24-02-5745R-RFP**
_____(Name of Bonding Company)
Attn: Mr. Jesse Clayburn, Assistant Supt. of Facilities and Construction

The Owner reserves the right to reject any and all proposals and to waive any informality in the Competitive Sealed Proposal process. No proposal shall be withdrawn within sixty (60) days after the proposal opening without the specific consent of the Owner. Refer to Offerors Section Document AB.

SELECTION CRITERIA: Selection criteria are included in Document AB of the Project Manual and Selection Criteria and are available on request by perspective Offerors from the office of the Architect.

PROPOSAL BOND: A Proposal Bond from a bonding company acceptable to the Owner or a certified check in an amount equal to 10% of the greatest amount proposed must accompany each offeror's proposal.

PAYMENT BOND AND PERFORMANCE BOND: A Payment Bond and Performance Bond, each in an amount equal to 100% of the Contract Sum conditioned upon the faithful performance of the Contract will be required. Refer to Section AB, Instructions to Offerors for detailed Bond requirements.

The prevailing rates of wages as stipulated in the Supplementary Conditions here within are the minimums that must be paid in conformance with all applicable laws of the State of Texas.

All Offerors (General Contractors) submitting proposals are encouraged to attend the proposal opening and visit the Project site.

Subcontractors and Suppliers intending to submit proposals to General Construction Offerors are required to prepare their proposals based on a complete set of proposal documents. If after reviewing the complete set of proposal documents, Subcontractors and Supplier Offerors desire to purchase individual drawings and specification sections for their proposal convenience, they may do so by ordering the specific drawings and specifications directly from the reproduction company. Each offeror purchasing a partial set of proposal documents is responsible for determining exactly which documents he requires and is responsible for all costs associated with printing and delivery. Subcontractors and Suppliers exercising this option must agree to do so on the basis that 1) all documents shall be returned to the Architect, without refund, after submitting a proposal and 2) documents shall not be used on other construction projects. Successful Subcontractors and Supplier Offerors may retain their Proposal Documents until completion of the construction. The subcontractor/supplier is responsible for all the associated work and coordination when not obtaining a complete set of drawings.

END OF DOCUMENT

FORM AC
COMPETITIVE SEALED PROPOSAL FORM - BASE PROPOSAL

2024 CY RANCH HS RENOVATION
Cypress-Fairbanks Independent School District
Cypress-Fairbanks I.S.D. Proposal Number: 24-02-5752R-RFP
Attn: Mr. Jesse Clayburn, Asst. Superintendent of Facilities & Construction

Submitted by:_____

Date:_____ Phone No.:_____

To: Board of Trustees
Cypress-Fairbanks Independent School District
Facilities and Construction
11430-B Perry Road
Houston, Texas 77064

Having examined Proposal and Contract Documents prepared by **Huckabee Architects** dated **November 11, 2024,** and having examined site conditions, the undersigned proposes to furnish all labor, equipment and materials and perform all work for the completion of the above-named project for the sum indicated below.

In submitting his Proposal, the undersigned agrees to the following:

1. Hold Base Proposal open for acceptance sixty (60) days.
2. Accept right of Owner to reject any or all proposals, to waive formalities and to accept proposal which Owner considers most advantageous.
3. Enter into and execute the contract, if awarded, for the Base Proposal and accepted Alternate Proposals.
4. Complete work in accordance with the Contract Documents within the stipulated contract time.
5. By signing, the undersigned affirms that, to the best of his knowledge, the Proposals have been arrived at independently and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over respondents in the award of this proposal.

I. BASE PROPOSAL

A. Undersigned agrees to complete the Work for the lump sum amount of:

_____Dollars $_____
(Amount written in words governs) (Amount in figures)

II. ALLOWANCES

Undersigned certifies that the allowances specified in Section 01 21 00 are included in the Base Proposal and agrees that unexpended balance of allowance sums will revert to Owner in the final settlement of the contract.

III. CONTRACT TIME

By submittal of this proposal, the undersigned stipulates that the Base Proposal includes all costs necessary to attain Substantial Completion of the Work on or before the date stipulated in AIA Document A101™–2017.

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 2:00 PM, December 5, 2024

IV. ADDENDA

Undersigned acknowledges receipt of Addenda Nos._____ dated

_____, _____.

V. CHANGES IN THE WORK

Undersigned understands that changes in the work shall be performed in accordance with the Supplementary Conditions.

VI. LIQUIDATED DAMAGES

By submittal of this proposal, the undersigned stipulates an agreement that if Substantial Completion of the Work is not attained on or before the date stipulated in AIA Document A101™–2017, the undersigned and his Surety shall be liable for and shall pay the Owner the sums stipulated as Liquidated Damages as defined in AIA Document A201™–2017.

It is understood that the right is reserved by the Owner to reject any or all proposals, or waive any informalities in the proposal process.

_____
Authorized Signature

_____
Printed Name

_____
Title

(Seal, if a Corporation)
State whether Corporation,
Partnership or Individual

_____
Name of Contracting Firm

_____
Address

_____
Telephone

_____
Date

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 2:00 PM, December 5, 2024

FORM AC
COMPETITIVE SEALED PROPOSAL FORM - ALTERNATE PROPOSALS

2024 CY RANCH HS RENOVATION
Cypress-Fairbanks Independent School District
Cypress-Fairbanks I.S.D. Proposal Number: 24-02-5745R-RFP
Attn: Mr. Jesse Clayburn, Asst. Superintendent of Facilities & Construction

Submitted by:_____

Date:_____ Phone No.:_____

To: Board of Trustees
Cypress-Fairbanks Independent School District
Facilities and Construction
11430-B Perry Road
Houston, Texas 77064

Having examined Proposal and Contract Documents prepared by **Huckabee Architects**, dated **November 11, 2024,** and having examined site conditions, the undersigned proposes to furnish all labor, equipment and materials and perform all work for the completion of the above-named project for the sum indicated below.

In submitting his Proposal, the undersigned agrees to the following:

1. Hold Alternate Proposal open for acceptance one hundred twenty (120) days.
2. Accept right of Owner to reject any or all proposals, to waive formalities and to accept proposal which Owner considers most advantageous.
3. Enter into and execute the contract, if awarded, for the Base Proposal and accepted Alternate Proposals.
4. Complete work in accordance with the Contract Documents within the stipulated contract time.
5. By signing, the undersigned affirms that, to the best of his knowledge, the Proposals have been arrived at independently and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over respondents in the award of this proposal.

I. ALTERNATES

If the Owner accepts any or all of the Alternates, the undersigned agrees to modify the Base Proposal as stipulated below:

ADD/DEDUCT_____ Dollars $_____
(Amount written in words governs) (Amount in figures)

II. UNIT PRICES

If the Owner accepts any or all of the Alternates, the undersigned agrees to add or subtract the following units of work:

UNIT PRICE 1: ELECTRICAL DUPLEX RECEPTACLE
Provide unit price for a new 20A, 120V duplex electrical receptacle and cover plate, flush mounted in a CMU, metal stud, or demountable wall construction, circuited to an existing electrical panel within 150 feet of the outlet using a branch circuit consisting of 2 #10 AWG and 1 #10 AWG ground in 3/4 inch EMT conduit. All conduits to be concealed in wall construction. Unit price shall include a 20 amp circuit breaker to be installed in existing panel space.

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 3:00 PM, December 5, 2024

(Add/Deduct)_____Dollars $_____

UNIT PRICE 2: DATA DROP

Provide unit price for a data drop, flush mounted in a CMU, metal stud or demountable wall construction., wired to an IDF/MDF Room. The data drop shall consist of a single gang wall box, cabling wiring device, cover plate, 3/4-inch conduit from outlet to above accessible ceiling, plenum-rated cabling routed above accessible ceiling to the nearest MDF or IDF location within 250 feet of the outlet. Termination and testing to be included in the unit price.

(Add/Deduct)_____Dollars $_____

UNIT PRICE 3: VOICE DROP

Provide unit price for a voice drop, flush mounted in a CMU, metal stud or demountable wall construction., wired to the telecommunications/MDF room. The voice drop shall consist of a single gang wall box, voice jack, cover plate, 3/4-inch conduit from outlet to above accessible ceiling, plenum-rated voice cable routed above accessible ceiling to telecommunication head end equipment. Termination and testing to be included in the unit price.

(Add/Deduct)_____Dollars $_____

UNIT PRICE 4: DATA CABLING TO TEACHER STATION

Provide one data drop, including data jack, faceplate, and CAT 6 cable home run to nearest IDF or MDF data rack. Assume length less than 300 FT. Include J-box and conduit from data outlet to ceiling cavity in this unit price.

(Add/Deduct)_____Dollars $_____

UNIT PRICE 5: 4 ½" THICK CONCRETE WALK PER SQUARE FOOT

This unit cost shall establish the amount to the contract price for the Contractor to add or deduct 4 ½" thick concrete walk (minimum 100 SF) per Square Foot.

(Add/Deduct)_____Dollars $_____

UNIT PRICE 6: 7" THICK CONCRETE DRIVE PER SQUARE FOOT

This unit cost shall establish the amount to the contract price for the Contractor to add or deduct 7" thick concrete drive (minimum 100 SF) per Square Foot.

(Add/Deduct)_____Dollars $_____

UNIT PRICE 7: PAINTING

This unit cost shall establish the amount to be added or deducted to the contract price for the Contractor to paint 100 square feet of wall (minimum 400 square feet of wall).

(Add/Deduct)_____Dollars $_____

UNIT PRICE 8: ORNAMENTAL FENCE

This unit cost shall establish the amount to be added or deducted from the contract price for the Contractor to add/deduct ornamental fence.

1.	6 foot high fence	$_____/	linear foot
2.	6 foot high x 4 foot wide gate	$_____/	per leaf
3.	6 foot high x 6 foot wide gate	$_____/	per leaf

(Add/Deduct)_____Dollars $_____

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 3:00 PM, December 5, 2024

UNIT PRICE 9: SECURITY FILM AND GLAZING

This unit cost shall establish the amount to be added to the contract price to provide and install security film on existing exterior glazing (minimum 200 square feet).

1.	Armouredone 23 Mil Film	$_____/	Square foot
2.	Childgard 3/8"	$_____/	Square foot
3.	Childgard 9/16"	$_____/	Square foot

(Add/Deduct)_____Dollars $_____

III. CONTRACTOR'S PROJECT TEAM MEMBERS

The undersigned proposes the following project team members (include resumes):

Project Manager _____

Superintendent _____

Asst. Superintendent(s) _____

Project Engineer _____

IV. PROPOSED SUBCONTRACTORS

The undersigned proposes the following subcontractors. Note – Not all trades listed below will apply to every project.

Paving: _____

Abatement: _____

Dampproofing/insulator: _____

Masonry: _____

Roofing: _____

Drywall: _____

Casework: _____

Concrete: _____

Plumbing: _____

Mechanical: _____

Electrical: _____

Fire Alarm: _____

Sprinkler: _____

Low Voltage/Security: _____

Site Utilities: _____

Earthwork/Site Prep: _____

Fencing: _____

Pre-Engineered Metal Building: _____

Glazing: _____

It is understood that the right is reserved by the Owner to reject any or all proposals, or waive any informalities in proposal process.

_____
Authorized Signature

_____
Printed Name

_____
Title

(Seal, if a Corporation)
State whether Corporation,
Partnership or Individual

_____
Name of Contracting Firm

_____
Address

_____
Telephone

_____
Date

END OF FORM

SECTION 08 7100
DOOR HARDWARE

11/20/2024

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Door Hardware Schedule”.
2. Division 08 Section “Hollow Metal Doors and Frames”.
3. Division 08 Section “Interior Aluminum Doors and Frames”.
4. Division 08 Section “Plastic Laminate Faced Wood Doors”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series
2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

    a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    b. Complete (risers, point-to-point) access control system block wiring diagrams.
    c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Proof of Certification: Provide copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified installer of Windstorm assemblies.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Integrated Wiegand, Wireless, and IP-Enabled Access Control Products Supplier Qualifications: Integrated access control products and accessories are required to be supplied and installed through current members of the ASSA ABLOY "Authorized Channel Partner" (ACP) and "Certified Integrator" (CI) programs. Suppliers are to be factory trained, certified prior to project bid, and a direct purchaser of the specified product. Installers are to be factory trained, certified prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Lifetime for mortise locks and latches.
2. Five years for exit hardware.
3. Ten years for electric latch retraction exit motors
4. Twenty-five years for manual surface door closer bodies.
5. Two years for electromechanical door hardware.
6. Lifetime for SN200 readers.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.9 OWNER STOCK – See Attic Stock at the end of Hardware Schedule.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

C. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity, unless otherwise indicated:

    a. Two Hinges: For doors with heights up to 60 inches.
    b. Three Hinges: For doors with heights 61 to 90 inches.
    c. Four Hinges: For doors with heights 91 to 120 inches.
    d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

    a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
    b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

    a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
    b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following where indicated in the Hardware Sets or on Drawings:

    a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Acceptable Manufacturers:

    a. Hager Companies (HA).
    b. McKinney Products (MK).
    c. Stanley Hardware (ST).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Acceptable Manufacturers:

    a. McKinney Products (MK).
    b. Pemko Manufacturing (PE).
    c. Stanley Hardware (ST).

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Acceptable Manufacturers:

    a. Pemko Manufacturing (PE) – EL-CEPT Series.
    b. Securitron (SU) - EL-CEPT Series.
    c. Stanley Hardware (ST) EPT-12C Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:
    a. McKinney Products (MK) - Electrical Connecting Kit: QC-R001.

b. McKinney Products (MK) - Connector Hand Tool: QC-R003.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Manual flush bolts to be furnished with top rod of sufficient length to allow bolt location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Acceptable Manufacturers:

a. Ives (IV).
b. Rockwood Manufacturing (RO).
c. Trimco (TC).

B. Door Push Plates and Pulls: ANS/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Acceptable Manufacturers:

a. Ives (IV).
b. Rockwood Manufacturing (RO).
c. Trimco (TC).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

1. Acceptable Manufacturers:

a. Stanley Best (BE).

b. Sargent Cylinder Housings
c. No Substitution.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: Match Facility Standard.

D. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Key locks to Owner's existing system.

E. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Twenty construction cores
3. 50 Key Blanks – Best “A” Keyway

F. Construction Keying: Provide temporary keyed construction cores. Green Best Cores No Substitution . All Best temporary cores to be returned to the district at the end of the project.

G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

H. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project. Provide a new cabinet to all new construction projects. Use Lund 1205-B as a basis of design.

1. Acceptable Manufacturers:

a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Acceptable Manufacturers

a. Sargent Manufacturing (SA) 8200 Series – No substitutions
b. Sargent Manufacturing (SA) 10X Series - No substitutions
1) Use at student restrooms or as directed by Cy Fair ISD

2.7 AUXILIARY LOCKS

A. Tubular Deadlocks: Deadlocks to be products of the same source manufacturer and keyway as other specified locksets.

1. Acceptable Manufacturers:

a. Marks (MX) - 130 Series.
b. Sargent Manufacturing (SA) – 480 Series.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Auxiliary Deadlocks: BHMA A156.5.
3. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

6. Rail Sizing: Provide exit device rails factory sized for proper door width application.

7. Through Bolt Installation: For exit devices and trim as indicated (TB) in Door Hardware Sets.

8. Provide Less Dogging (LD) at all exit devices.

9. Add 31- Prefix to all exit devices being provided at two inch aluminum doors.

10. No self-tapping screws allowed.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Acceptable Manufacturers:

    a. Sargent Manufacturing (SA) - 80 Series.
    b. No Substitution.

C. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish.

1. Provide keyed removable feature where specified in the Hardware Sets.

2. Provide stabilizers and mounting brackets as required.

3. Provide electrical quick connection wiring options as specified in the hardware sets.

4. Acceptable Manufacturers:

    a. Stanley Precision (PR) - 822 Series.

b. No Substitution.

2.10 INTEGRATED WIEGAND OUTPUT ACCESS CONTROL EXIT DEVICES

A. Wiegand Output Integrated Card Reader Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated proximity card reader, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected DPS).
2. Reader supports either HID 125 kHz proximity (up to 39 bits, including Corporate 1000) or 13.56 MHz (2K-32K) iClass® credentials.
3. 12VDC external power supply required for reader, with optional 24VDC operation available with iClass® reader (125 kHz reader is always 12VDC). 24VDC required for solenoid operated exit trim (12VDC if applicable). Fail safe or fail secure options.
4. Installation requires only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.

5. Acceptable Manufacturers:

a. Sargent Manufacturing (SA) - SN – 56-SN20080 Series Exits. x SPAR04867
b. Sargent Manufacturing (SA) - SN – SN2008200 Series Locks.
c. No Substitution.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates, and through-bolt and security type fasteners as required for proper installation.

8. Through Bolt Installation: All door closers are to be installed with (TB) through bolting as indicated in Door Hardware Sets.

9. No self-tapping screws allowed.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Acceptable Manufacturers:

a. Sargent Manufacturing (SA) – TB 351 Series.

2.12 SURFACE MOUNTED CLOSER HOLDERS

A. Electromagnetic Door Holders: Certified ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate.12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.

1. Acceptable Manufacturers:

a. LCN Door Closers (LC) - SEM7800 Series.
b. Rixson (RF) - 980/990 Series.
c. Sargent Manufacturing (SA) - 1560 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

    a. Stainless Steel: 300 grade, 050-inch thick.

4. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

5. Acceptable Manufacturers:

    a. Ives (IV).
    b. Rockwood Manufacturing (RO).
    c. Trimco (TC).

2.14 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Acceptable Manufacturers:

    a. Ives (IV).
    b. Rockwood Manufacturing (RO).
    c. Trimco (TC).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Acceptable Manufacturers:

    a. Do not use overhead stops/holders

2.15 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and UBC 7-2, Fire Tests of Door Assemblies.

D. No Replaceable Seal Strips allowed: Provide only those units where they can be screw applied..

E. Acceptable Manufacturers:

1. National Guard Products (NG).
2. Pemko Manufacturing (PE).
3. Reese Enterprises, Inc. (RE).

2.16 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Acceptable Manufacturers:

a. Provided by Security

B. Switching Power Supplies: Provide UL listed or recognized filtered and regulated power supplies. Provide single, dual, or multi-voltage units as shown in the hardware sets. Units must be expandable up to eight Class 2 power limited outputs. Units must include the capability to incorporate a battery backup option with integral battery charging capability in addition to operating the DC load in event of line voltage failure. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

1. Acceptable Manufacturers:

a. Provided by Security

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

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

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Integrated Wiegand access control products are required to be installed through current members of the ASSA ABLOY "Certified Integrator" (CI) program.

D. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

G. No self-tapping screws allowed.

3.4 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

B. Final Adjustment: Installer shall return and make final adjustment of all hardware once all air conditioning test and balance is complete. Final adjustment shall be made while air conditioner system is operating. Coordinate with General Contractor and Owner.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

A. Manufacturer’s Abbreviations:

1. MK - McKinney
2. OT - OTHER
3. PE - Pemko
4. RO - Rockwood
5. PR - Precision
6. MX - Marks
7. SA - Sargent
8. AD - Adams Rite
9. BE - Best Access Systems
10. HS – HES
11. SU – Securitron
12. KD – Keedex
13. LO – Locinox

Hardware Sets based on plans dated 08-28-2024
10/10/2024 – Revised based on 75% Owner Note Review – 09/02/2024 Plans
11/10/2024 – Revised based on 95% Owner Note Review

****At existing doors / frames, all conditions must be field verified prior to order.**
At aluminum frames, gasket is by frame manufacturer.
****Add 2891APK gasketing to all exterior hollow metal doors.**
Verify in field use of door loop v/s EPT where adding reader.

Set: 1.0
Doors: D150B
Description: 2N Station

1	All hardware	Existing to remain		OT
1	2N Station	2N		OT

Set: 2.0
Doors: F101A
Description: Add Reader - 68-1375 Rail - Pivots

2	Pivots	New - by Storefront Supplier		OT
1	68-1375	Mounting Rail Insert		SA
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	SN200 Reader	52 6027 (Exit / Lock)	26D	SA
1	Balance of hardware	Existing to remain		OT

Notes: Remove cylinder dogging on exiting rail with 68-1375 mounting rail insert.

Set: 3.0
Doors: D111, E131B, G101, I115A, I115B, I119A, I119B
Description: Add Reader - Pr Rail Insert - Sweeps Stop

1	68-1375	Mounting Rail Insert		SA
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	SN200 Reader	52 6027 (Exit / Lock)	26D	SA
1	Balance of hardware	Existing to remain		OT

Notes: Remove cylinder dogging on exiting rail with 68-1375 mounting rail insert.
*Replace HID reader on wall with SN200 reader.

Set: 4.0
Doors: J129
Description: Add Reader - Pr Rail Insert - 68-0549

1	68-0549	Rail Inserts		SA
2	Door Stop	462	US2C	RO

1	Gasketing	2891APK (head & jambs)		PE	
1	SN200 Reader	52 6027 (Exit / Lock)	26D	SA	
1	Balance of hardware	Existing to remain		OT	

Notes: Remove cylinder dogging on exiting rail with 68-1375 mounting rail insert.
*Replace HID reader on wall with SN200 reader.

Set: 5.0
Doors: I116, I116A
Description: Add Reader - 68-1375 Rail Insert - Sweeps Stops

1	68-1375	Mounting Rail Insert		SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	SN200 Reader	52 6027 (Exit / Lock)	26D	SA	
1	Balance of hardware	Existing to remain		OT	

Notes: Remove cylinder dogging on rail with 68-1375 mounting rail insert

Set: 6.0
Doors: F101B
Description: Add 68-1375 Rail Insert - 2 - Pivots

2	Pivots	New - by Storefront Supplier		OT	
2	68-1375	Mounting Rail Insert		SA	
1	Balance of hardware	Existing to remain		OT	

Notes: Remove cylinder dogging on rail with 68-1375 mounting rail insert

Set: 7.0
Doors: F124A
Description: Add Int 68-1375 Rail Insert - Trim-Mullion, HO Closer

1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black	PR	
1	Spacer	MCS822	689	PR	
1	68-0549	Rail Inserts		SA	
2	Exit Device Trim	70 713-8ETL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA	
1	Const. Core	7190224	Green	BE	
2	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
2	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Notes: Remove cylinder dogging on rail with 68-1375 mounting rail insert

Set: 8.0
Doors: E109, E111, E113, E115, E124, E125, E126, E127, E128, E129, E145, E149A, E150
Description: Add Rated Exit Device-Security CL

1	Rim Exit Rated Sec CR x SPAR#NC-E11 ETL	US32D	12 LD 19 43 49 70 8816 SA	
2	Interchangeable Core	I/CK-7	626	BE

2	Const. Core	7190224	Green	BE
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.

Set: 9.0
Doors: B115A, B119A, B122A, B124B, B203A, B205A, B211A, F105A, G111A, G114A, G135A, G136A, G171A, H161, H165A
Description: Add Exit Device-8816- HO Closers

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.

Set: 10.0
Doors: A111, A113A, A113B, C218, C219, C220, C221, C225, C226, C227, C228, C241, C242, C243, C244, C245, C246, C247, C248, C251, C252, C253, C254, C257, C258, C259, C260, D237A, E215, E216, E217, E218, E221, E222, E223, E224, E236, E237, E238, E239, E241, E242, E243, E244, E251, E252, E253, E254, E257, E258, E259, E261, J117B, J117C, J128A, J128B, J168, J169
Description: Add Exit Device-8816- HO Closers - Thru bolts

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Sex Nut & Bolt Kit	SNB134-38	689	NO
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.
**TB Kit to be used to fill existing pull preps.

Set: 11.0
Doors: D237B
Description: Add Exit Device-8804- HO Closers - Thru bolts

1	Rim Exit NL SPAR#NC-E11	LD 19 43 70 8804 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Sex Nut & Bolt Kit	SNB134-38	689	NO
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.
**TB Kit to be used to fill existing pull preps.

Set: 12.0

Doors: J155A, J155B
Description: Add Exit Device-8816/8804- HO Closers - Thru bolts

1	Rim Exit Sec CR x SPAR#NC-E11	LD 19 LD 43 49 70 8816 ETL	US32D	SA
1	Rim Exit NL SPAR#NC-E11	LD 19 43 70 8804 ETL	US32D	SA
3	Interchangeable Core	I/CK-7	626	BE
3	Const. Core	7190224	Green	BE
2	Sex Nut & Bolt Kit	SNB134-38	689	NO
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.
**TB Kit to be used to fill existing pull preps.

Set: 13.0
Doors: F119A, F119B
Description: Add Exit Device-8816/8804- HO Closers - Mullion

1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR
1	Rim Exit Sec CR x SPAR#NC-E11	LD 19 LD 43 49 70 8816 ETL	US32D	SA
1	Rim Exit NL SPAR#NC-E11	LD 19 43 70 8804 ETL	US32D	SA
4	Interchangeable Core	I/CK-7	626	BE
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA
4	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 PSH	EN	SA
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.

Set: 14.0
Doors: J101A, J101B, J101G, J101H, J107A, J107B, J107C
Description: Add Rated Exit Device-8816/8804- Closers - Thru bolts - Mullion

1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR
1	Rim Exit Rated Sec CR x SPAR#NC-E11 ETL	US32D	12 LD 19 43 49 70 8816 SA	
1	Rim Exit SPAR NC-E11	12 LD 19 TB 43 70 8804 ETL	US32D	SA
4	Interchangeable Core	I/CK-7	626	BE
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA
4	Const. Core	7190224	Green	BE
2	Sex Nut & Bolt Kit	SNB134-38	689	NO
2	Surface Closer	TB 351 PS	EN	SA
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.
**TB Kit to be used to fill existing pull preps.

Set: 15.0

Doors: B115B, B117, B122B, B124A, B203B, B205B, B211B, F105B, H165B
Description: Add Exit Device-8804- HO Closers

1	Rim Exit NL SPAR#NC-E11	LD 19 43 70 8804 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.

Set: 16.0
Description: Not Used

1	Set	Not Used		OT

Notes:

Set: 17.0
Description: Not Used

1	Set	Not Used		OT

Notes:

Set: 18.0
Doors: I120A
Description: Add Exit Device-8816- HO Closers - repair

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Notes: Provide hold open closers at classrooms unless fire rated. No hold open on rated doors.
Contractor to paint and bondo any existing holes.

Set: 19.0
Doors: B121, C108, C120, C133, D114B, D185B, D187, E131A, E131C, G129A, G129B
Description: Add Pr SN200 Narrow Exit x Less Trim, EPT, Rail Insert, Sweeps,

1	Electric Power Transfer	EL-CEPT	630	SU
1	68-1375	Mounting Rail Insert		SA
1	Rim Exit xSPAR04867/NC-E11/NC-E35 SN200-8504 Less Trim	19 LD TB 43 70 56-US32D	SA	
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK

1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing trim. Remove cylinder dogging on exit rail, replace with 68-1375 Mounting Rail Insert.

Set: 20.0
Doors: J101C, J101E
Description: Add Pr DT only, Rail Insert, Sweeps - Dogging

1	68-1375	Mounting Rail Insert		SA
1	Rim Exit x SPAR#NC-E11	19 TB 43 8510 862	US32D	SA
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Balance of hardware	Existing to remain		OT

Notes: Remove cylinder dogging on exit rail, replace with 68-1375 Mounting Rail Insert.

Set: 21.0
Doors: A102, B114
Description: Add SN200 Narrow Exit 8504 x 8510, EPT Less Trim

1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11/NC-E35 SN200-8504 Less Trim	19 LD TB 43 70 56-US32D	SA	
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Set: 22.0
Doors: J101D, J101F, L108-A, L116-A
Description: Add SN200 Narrow Exit 8504 x 8510, EPT x Trim - Sweep / Stop

1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit xSPAR04867/NC-E11/NC-E35 SN200-8504 862	19 LD TB 43 70 56-US32D	SA	
1	Rim Exit x SPAR#NC-E11	19 TB 43 8510 862	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK

2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Set: 22.1
Doors: L100
Description: Add SN200 Narrow Exit 8504 x 8510, EPT x Trim - Sweep / Stop - LD

1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit xSPAR04867/NC-E11/NC-E35 SN200-8504 862	19 LD TB 43 70 56- US32D	SA	
1	Rim Exit x SPAR#NC-E11	LD 19 TB 43 8510 862	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Set: 23.0
Doors: A150B, A150C
Description: Add SN200 Exit, Loop, Rail Insert - Mullion

1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	68-0549	Rail Inserts		SA
2	Interchangeable Core	I/CK-7	626	BE
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA
2	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
2	Sweep	345ANB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing Trim. Remove cylinder dogging on exiting rail with 68-0549 mounting rail insert

Set: 24.0
Doors: E164B, E165B, H130, H171A, H171B
Description: Add SN200 Exit, Loop

1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing Trim. Remove cylinder dogging on exiting rail with 68-1375 mounting rail insert

Set: 25.0
Doors: B100A, D151, E152B, E160B, G140C
Description: Add SN200 Exit, Loop - Sweep

1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Door Stop	462	US2C	RO
1	Sweep	345ANB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing Trim. 2 sweeps/2stops at pairs.

Set: 25.1
Doors: I101
Description: Add SN200 Exit, Loop - Rail- Sweep

1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	68-0549	Rail Inserts		SA
1	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Door Stop	462	US2C	RO
1	Sweep	345ANB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU

1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing Trim. 2 sweeps/2stops at pairs.

Set: 26.0
Doors: E166B
Description: Add Pr SN200 Exit, Loop - Sweep - Rail Insert

1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	68-0549	Rail Inserts		SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
2	Sweep	345ANB x Dr. Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Reuse existing Trim. 2 sweeps/2stops at pairs.

Set: 27.0
Doors: H114
Description: Add 2N Exit, Loop

1	Rim Exit - 2N SPAR#04867/NC-E11	LD 19 TB 43 56 70 8804 Less Pull	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT
1	Reader	By Security contractor		OT

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Card reader by security. Reuse existing Trim.

Set: 28.0
Doors: A101A, A101B, A101C
Description: Pair Add Rated Exit Devices-8816 x 8804 - TB - Mullion

1	Mullion	KR822 (FLK as req)	600	PR

2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR
1	Rim Exit Rated Sec CR x SPAR#NC-E11 ETL	12 LD 19 43 49 70 8816 ETL	US32D	SA
1	Rim Exit SPAR NC-E11	12 LD 19 TB 43 70 8804 ETL	US32D	SA
4	Interchangeable Core	I/CK-7	626	BE
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA
4	Const. Core	7190224	Green	BE
1	Sex Nut & Bolt Kit	SNB134-38	689	NO
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 29.0
Doors: A150A
Description: Pair Add Exit Devices-8816 x 8804

1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
3	Interchangeable Core	I/CK-7	626	BE
3	Const. Core	7190224	Green	BE
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 30.0
Doors: A112B, D131, D181A, D182A, D183B, D209A, H108B, H207A, J124B, J156B
Description: Existing - Add 8204

1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 30.1
Doors: G144B
Description: No Work

1	All hardware	Existing to remain	OT

Set: 31.0
Doors: J165, J165A
Description: No Work

1	All hardware	Existing to remain	OT

Set: 32.0
Doors: A110, A155, C119, C149, C229, C261, E211, E246, I114, I128
Description: No Work

1	All hardware	Existing to remain	OT

Set: 33.0
Doors: B103A, B104A, B110A, B113A, C101B, C102B, C104A, C105B, C109A, C109B, C110B, C114A, C115B, C125B, C127B, C129A, C130B, C135A, C136A, C139A, C140A, D209B, G140B, H147B, H204B

Description: Existing - Add 8204 - HO Closer - Classroom

1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 34.0
Doors: B102A
Description: Existing - Add 8204 - Rated Classroom

1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 35.0
Doors: D108, D112, D113, D184, D221, D222, E106, E107, E108, E112, E114, E117, E118, E119, E121, E138, E139A, E144, E146, E148, E149B, E160A, E164A
Description: Existing - Add 8238 - Rated Classroom

1	Classroom Security Intruder Lock	V01 EMB 70 8238 VN1L 90-3/8" Collar	US26D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
2	Const. Core	7190224	Green	BE	
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 35.1
Doors: E139B
Description: Existing - Add 8204- Rated Classroom

1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 36.0
Doors: B102B, B103B, B104B, B110B, B113B, C101A, C102A, C104B, C105A, C109C, C110A, C114B, C115A, C124, C125A, C127A, C129B, C130A, C135B, C136B, C139B, C140B, C212, C213, C214, C238, D209C, D218, D240, D241A, E264, E266, E267, F103, G140A, H108A, H113, H117, H127, H132A, H133, H136, H137, H147A, H201, H202, H203, H204A, H205, J154A, J166, J204, J205, J206, J207, J208, J209, J210
Description: Existing - Add 8238 - HO Closer

1	Classroom Security Intruder Lock	V01 EMB 70 8238 VN1L 90-3/8" Collar	US26D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
2	Const. Core	7190224	Green	BE	

1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 37.0
Doors: C146, D105, D106, E226, J108, J127
Description: Existing - Add 8238

1	Classroom Security Intruder Lock	V01 EMB 70 8238 VN1L 90-3/8" Collar	US26D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
2	Const. Core	7190224	Green	BE	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 38.0
Doors: F106
Description: Add Mullion

1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black	PR	
1	Spacer	MCS822	689	PR	
1	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 x 1KB-3	US32D	SA	
1	Const. Core	7190224	Green	BE	

Set: 39.0
Doors: G165
Description: Existing - Add 8237

1	Classroom Lock	70 8237 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 40.0
Doors: D102, D116, D120, D122, D123, D124, D127, D128, D129, D130, D132, D133, D136, D137, D139, D140, D141, D142, D152A, D152B, D152C, D154, D155, D156, D157, D158, D161, D163, D164, D165, D169, D171A, D171B, D180A, D181B, D182B, D183A, I112, I131
Description: Existing - Add 8205

1	Office/Entry Lock	70 8205 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 41.0
Doors: D143, D159, D162, D172A, D172B, D179
Description: Existing - Add 8205/ Indicator

1	Office/Entry Lock	V01 EMB 70 8205 VN1L	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	

1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 42.0
Doors: A121, C144, C145, D109, E159, H166, I113, I123, I124, I127, J158, J166C
Description: No Work

1	All hardware	Existing to remain		OT

Set: 43.0
Doors: C142, C143, E158, E161
Description: No Work

1	All hardware	Existing to remain		OT

Set: 44.0
Doors: F134, G168
Description: **Pr Ext - Exit Device- SN200/DT - Mullion - Closer w/Stop Arm -Access Control

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
1	Vandal Resistant Trim	826	US32D	SA
1	Vandal Resistant Trim	821	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA
1	Const. Core	7190224	Green	BE
2	Kit	581-1/ 581-2 as required	EN	SA
2	Surface Closer	TB 351 PS	EN	SA
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
2	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
2	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU

Notes: Operation: Doors normally closed and locked. Valid card at the card reader retracts the latch on the active leaf for entry. Free egress at all times. Door status monitored.

Set: 45.0
Doors: I129A
Description: **Pr Ext - Lock- 2N- Closer w/Stop Arm -Access Control - Peep

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Surface Bolt	580-12 @ top only	US26D	RO
1	Fail Secure Lock	70 RX 8271 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE

1	Const. Core	7190224	Green	BE	
2	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
2	Door Stop	462	US2C	RO	
1	Astragal Set (2)	18061CNB x Dr. Ht		PE	
1	Gasketing	2891APK (head & jambs)		PE	
1	Rain Guard	346C x Frame Width		PE	
2	Sweep	345ANB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	ElectroLynx Harness	QC-C1500P		MK	
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	
2	Viewer	622 x door thickness	DCRM	RO	
1	Reader	By Security contractor		OT	

Notes:
Door is normally closed and secure. Presentation of valid credential allows entry by trim. Upon loss of power, door will remain secure. Free egress at all times.

Set: 46.0
Doors: G167
Description: **Pr Ext - Storeroom/Mech- Closer/Stop

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Surface Bolt	580-12 @ top only	US26D	RO
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 PS	EN	SA
1	Astragal Set (2)	18061CNB x Dr. Ht		PE
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
2	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
2	Door Position Switch	By Security.		OT

Set: 47.0
Doors: I120B, J134B, J136B
Description: **Sgl - ExT -HM - Exit- SN200 FSW - Closer /Stop- Access Control - Peep

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE
1	Rim Exit x SPAR04867/NC-E11	LD 19 TB 43 70 56-SN200-8804 FSW	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PS	EN	SA
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK

1	Door Loop	DL-2		AK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
2	Viewer	622 x door thickness	DCRM	RO

Notes: Operation: Doors normally closed and locked. Valid card at the card reader retracts the latch on the active leaf for entry. Free egress at all times. Door status monitored. Confirm specified hardware is compatible with door manufacturer.

Set: 48.0
Doors: G163, G171B
Description: **Sgl - ExT -HM - Exit- SN200 - Closer /Stop- Access Control

1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Vandal Resistant Trim	826	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PS	EN	SA
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU

Notes: Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Set: 49.0
Doors: G158, K101
Description: **Sgl - Ext- Mech/Storage/Fire Riser - Closer w/Stop Arm

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PS	EN	SA
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	Door Position Switch	By Security.		OT

Set: 50.0
Doors: D149A, D150D
Description: Add Reader

1	SN200 Reader	52 6027 (Exit / Lock)	26D	SA

1	Balance of hardware	Existing to remain		OT	

Notes: Replace reader with SN200

Set: 51.0
Doors: D227
Description: **Pr Int- ASF - Sec CR x NL- Mullion - Closer /HO

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black	PR	
1	Spacer	MCS822	689	PR	
1	Rim Exit 2N SPAR04867/NC-E11	LD 19 TB 43 56 70 8804 ETL	US32D	SA	
1	Rim Exit Sec CR x SPAR#NC-E11	LD 19 LD 43 49 70 8816 ETL	US32D	SA	
4	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
4	Const. Core	7190224	Green	BE	
2	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Perimeter Seal	By door mfgr		OT	

Set: 52.0
Doors: I137A
Description: **Pr Ext - Storeroom/Mech- Closer/Stop - Armor

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE	
1	Surface Bolt	580-12 @ top only	US26D	RO	
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
2	Surface Closer	TB 351 PS	EN	SA	
2	Armor Plate	K1050 36" CSK BEV	US32D	RO	
1	Astragal Set (2)	18061CNB x Dr. Ht		PE	
1	Gasketing	2891APK (head & jambs)		PE	
1	Rain Guard	346C x Frame Width		PE	
2	Sweep	345ANB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
2	Door Position Switch	By Security.		OT	

Notes: Closer on active leaf.

Set: 53.0
Doors: G154A, G156A, G161B
Description: Sgl - Exit Device-Security CL - Closer / HO

3	Hinge (heavy weight)	T4A3786	US26D	MK	
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
2	Const. Core	7190224	Green	BE	
1	Surface Closer	TB 351 PSH	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 54.0
Doors: G114B, G135B, G136B, G154B, G156B
Description: Sgl - Exit Device-NL - Closer / HO - Classroom

3	Hinge (heavy weight)	T4A3786	US26D	MK	
1	Rim Exit NL SPAR#NC-E11	LD 19 43 70 8804 ETL	US32D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Surface Closer	TB 351 PSH	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 55.0
Doors: G111B
Description: Sgl - Rated Exit Device-NL - Closer

3	Hinge (heavy weight)	T4A3786	US26D	MK	
1	Rim Exit SPAR NC-E11	12 LD 19 TB 43 70 8804 ETL	US32D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 56.0
Doors: G162B
Description: **Pr - Int Classroom Sec CL x NL -Closer

6	Hinge (heavy weight)	T4A3786	US26D	MK	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black	PR	
1	Spacer	MCS822	689	PR	
1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA	
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA	
4	Interchangeable Core	I/CK-7	626	BE	
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA	
4	Const. Core	7190224	Green	BE	
2	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	
1	Mullion Gasketing	5110BL		PE	

Notes:

Set: 57.0
Doors: D149B
Description: **Sgl- Int ASF- SN200 Lock- Closer - Access Control

1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	
1	SN200 Mort Lock	70 SN200-82271 OL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	

1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Gasketing	By the frame manufacturer		OT

Notes: Operation: Door normally closed and secure. Valid card at the card reader will allow entry by trim. Free egress at all times. Door status is monitored. Install reader and cylinder on reception side.

Set: 58.0
Doors: G152, G157, G160
Description: **Sgl - Storeroom

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 59.0
Doors: G159
Description: **Sgl - Storeroom - Closer - Gasket - Sweep MDF/IDF

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	345ANB x Dr. Width		PE
3	Silencer	608		RO

Set: 59.1
Doors: G164B
Description: **Sgl - Storeroom - Closer - Wide

3	Hinge (heavy weight)	T4A3786	US26D	MK
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 60.0
Doors: A103
Description: **Pr - Storeroom - Closer/stop - Armor

6	Hinge, Full Mortise	TA2714	US26D	MK	
1	Surface Bolt	580-12 @ top only	US26D	RO	
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Surf Overhead Stop	10-x36	689	RF	
1	Surface Closer	TB 351 PS	EN	SA	
2	Armor Plate	K1050 36" CSK BEV	US32D	RO	
1	Astragal Set (2)	18061CNB x Dr. Ht		PE	
1	Gasketing	2891APK (head & jambs)		PE	

Notes: Closer on active leaf.

Set: 60.1
Doors: F135, G164A
Description: **Pr - Storeroom - Closer/HO

6	Hinge, Full Mortise	TA2714	US26D	MK	
1	Surface Bolt	580-12 @ top only	US26D	RO	
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req	EN	SA	
2	Door Stop	481H	US26D	RO	
2	Silencer	608		RO	

Notes: Closer on active leaf.

Set: 61.0
Doors: I137B
Description: **Pr - Storeroom Lock - Rated - Armor

6	Hinge, Full Mortise	TA2714	US26D	MK	
1	Auto Flush Bolt	2840 /2940	US26D	RO	
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Coordinator	2672	Black	RO	
2	Mounting Bracket	2601AB	Black	RO	
2	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Astragal Set (2)	18061CNB x Dr. Ht		PE	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 62.0
Doors: D148
Description: **Sgl- Int ASF- Storeroom Lock- Closer

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	

1	Gasketing	By the frame manufacturer		OT

Notes:

Set: 63.0
Doors: G151, G155
Description: **Sgl - 8237

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	70 8237 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	481H	US26D	RO
1	Silencer	608		RO

Set: 64.0
Doors: G166
Description: **Sgl - Classroom

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	70 8237 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Kit	581-1/ 581-2 as required	EN	SA
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 65.0
Doors: G114C, G114D, G114E, G153
Description: **Sgl - 8204 - STC

3	Hinges	By the STC door manufacturer		OT
1	Storeroom/Closet Lock	31 70 8204 LNL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

Notes: Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.
**31- for doors over 1 3/4" thick.

Set: 66.0
Doors: G161A
Description: Sgl - Push Pull - Closer - HO

3	Hinge (heavy weight)	T4A3786	US26D	MK	
1	Push Plate	70E	US32D	RO	
1	Pull Plate	111x70C	US32D	RO	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
1	Door Stop	481H	US26D	RO	
3	Silencer	608		RO	

Set: 67.0
Doors: G162A
Description: Pr - Push Pull - Closer - HO

6	Hinge (heavy weight)	T4A3786	US26D	MK	
2	Push Plate	70E	US32D	RO	
2	Pull Plate	111x70C	US32D	RO	
2	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
2	Door Stop	481H	US26D	RO	
2	Silencer	608		RO	

Set: 68.0
Doors: F117, H138, H153, H154
Description: **Sgl - Multi Occ RR - Classroom Cyl - Closer

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Classroom Lock	70 10XG37 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
1	Door Stop	481H	US26D	RO	
3	Silencer	608		RO	

Set: 69.0
Doors: J102A, J105A
Description: **Sgl - Rated Multi Occ RR - Classroom Cyl - Closer

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Classroom Lock	70 10XG37 LL	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
1	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 70.0
Doors: C235, C236, D219, D220, D238, D239
Description: **Sgl - MS / HS Staff RR - Hotel Lock w/Indicator - Closer - Hold*

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hotel Guest Lock Lock	V20 LC 8250 VN1L	US26D	SA	
1	Interchangeable Core	I/CK-7	626	BE	
1	Const. Core	7190224	Green	BE	
1	Mortise Cylinder for Hotel Lock	1E-7G4 C208 RP3	626	BE	
1	Door Closer w/ HO	TB 351 H (inswing)/ PSH (outswing) As Req		EN	SA
1	Kit	581-1/ 581-2 as required	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Silencer	608		RO	

Set: 71.0
Description: **OH Coiling Doors - No Work

1	All hardware	Existing to remain		OT

Set: 72.0
Door: K101B
Description: **OH Coiling Doors - Motorized

2	Mortise Cylinder	70 42	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
2	Keyswitch	MK x MKS		SU
1	Balance hardware	by the door manufacturer		OT

Notes: Provide keyswitch on both sides of door.

Set: 73.0
Doors: A104, A112A, A112C, A118, A120A, A120B, A151, A152, A153, A154, B100B, B106, B107, B108, B109, B111, B112, B116, B118A, B118B, B118C, B123A, B123B, B123C, B200, B201, B204A, B204B, B204C, B207, B208, B209, B210A, B210B, B212, C103A, C103B, C103C, C103D, C103E, C106, C107, C111A, C111B, C112A, C112B, C112C, C112D, C112E, C112F, C113, C116, C121, C122, C123, C126, C128A, C128B, C128C, C128D, C128E, C137A, C137B, C137C, C137D, C137E, C138, C141, C147, C148, C152, C210, C211, C215, C216, C222A, C222B, C223, C224, C232, C234, C237, C239, C240, C255A, C255B, C256, C264, D103, D104, D107, D110, D114A, D115, D117, D118, D121, D126, D138, D150A, D150C, D166, D167, D168, D173, D174, D176, D177, D178, D180B, D185A, D186, D207, D208, D212A, D212B, D213, D214, D215, D216A, D216B, D216C, D223, D224, D225, D226, D228, D229, D230A, D230B, D231, D233, D234, D235, D241B, D242, D243, E102, E105, E120, E122, E123, E133, E136, E137, E140, E141, E142, E143A, E143B, E147, E149C, E152A, E153, E156, E157, E162, E163A, E163B, E165A, E166A, E167, E210, E214, E219A, E219B, E220, E227, E228, E229, E231, E232, E233, E234, E235, E249, E250, E256, E260, E263, E265A, E265B, E268, E269, E270, F107, F108, F109, F110, F111, F113, F114, F115A, F115B, F116, F118A, F118B, F122A, F122B, F123, F124B, F125, F128, F129, F130, F133, G102, G104, G105, G106, G107, G108, G109, G112, G113, G116, G117, G118, G119, G121, G122, G123, G124, G125, G126, G127, G128, G131, G132, G133, G137, G141, G144A, G146, G170, H100, H101, H102A, H102B, H103A, H103B, H104B, H104C, H105, H106, H107, H109, H115A, H115B, H116, H118, H119, H120, H124, H125, H126, H131, H132B, H134, H135, H137A, H139, H141, H142, H143, H145, H146A, H146B, H149, H151, H151A, H152, H155, H156, H157, H158, H159, H160, H162, H164, H167, H169, H170, H172, H173, H174, H175, H207B, H208, H209, H212, H213, I102, I105, I106, I111, I117, I118, I121A, I121B, I122, I125, I126, I129B, I134, I135, I136, I138, I140, I141, I142, I144, I200, I201, I202, J100, J102B, J103, J105B, J106, J109, J117A, J119, J121, J124A, J124C, J125, J133, J134A, J136A, J137, J144A, J144B, J147, J148, J149A, J149B, J150, J151, J152, J153, J154B, J156A, J159, J162, J163, J166A, J166B, J168-A, J168-B, J170, J202, J203, L101, L102, L103, L104, L105, L106, L107, L108-B, L108-C, L109, L110, L111, L112, L113, L114, L115, L116-B, L117, L118, L119, L120
Description: No Work

1	All hardware	Existing to remain		OT

Set: 74.0
Doors: Attic
Description: **Attic Stock - EVERY CAMPUS

1	Hydraulic Gate Closer & Hinge	MAMMOTH-180-HD	9005	OT
5	Quick Fix Bolts	MAMMOTH-P00006000		OT
5	Mullion Lock	98-2520		SA
5	Mullion Lock	98-2518		SA
5	Classroom Security Intruder Lock	8238 Lock Body	US26D	SA
5	130KB	Thumbturn Kit	26D	SA
50	Key Blanks	Best "A" Keyway		BE

12	Regular Hold Open Arm	25-H	EN	SA
12	Parallel Hold Open Arm	25-PSH	EN	SA
4	Electromagnetic Holder	994M 24VAC	689	RF
5	994M Magnetic Parts	Door Armature 994510M	689	RF
5	994M Magnetic Parts	Screw & Backplate 998300	689	RF
5	994M Magnetic Parts	Swivel Armature 900-3	689	RF
5	994M Magnetic Parts	Magnet Assembly 998369-3V	689	RF
5	994M Magnetic Parts	Wall Cover 998315M	689	RF
4	SN200 Reader	52 6027 (Exit / Lock)	26D	SA

Notes: All attic stock ships direct to
Director of Technical Services
Cy Fair ISD Lockshop
11430 Perry Road
Houston, Texas 77064 **DO NOT ship to jobsite. Distributor to ship directly to Cy Fair.

Set: 75.0
Doors: GA-08
Description: **Pr Gate - Panic

2	Hinges	By the door manufacturer		OT
1	Mullion	KR822 (FLK as req)	600	PR
2	Exit Device - SPAR#NC-E11	19 LD TB 43 70 8804	US32D	SA
2	Vandal Resistant Trim	826	US32D	SA
3	Interchangeable Core	I/CK-7	626	BE
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA
3	Const. Core	7190224	Green	BE
1	Balance hardware	by the door manufacturer		OT

Notes: Provide adequate framing for mullion.

Set: 76.0
Doors: GA-09
Description: **Gate - Panic

1	Hinges	By the door manufacturer		OT
1	Exit Device - SPAR#NC-E11	19 LD TB 43 70 8804	US32D	SA
1	Vandal Resistant Trim	826	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Balance hardware	by the door manufacturer		OT

END OF SECTION 087100

SECTION 23 7313
AIR HANDLING UNITS

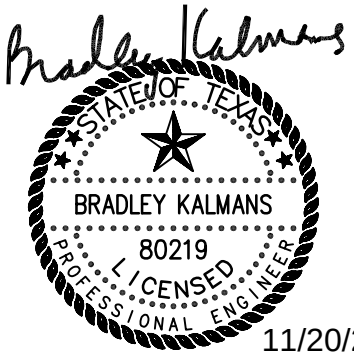
PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish and install air handling units with casing, fans, coils, filters and special items.

1.2 RELATED WORK

A. Division 23 Mechanical
   1. Air Balance
   2. Ductwork
   3. Controls
   4. Electrical Provisions of Mechanical Work
   5. Air Filtration
   6. Heating and Cooling Coils
   7. Other applicable sections



11/20/2024

1.3 PERFORMANCE

A. Unit capacities and characteristics as indicated.
   1. Units must be certified in accordance with ARI Standard 430-66.
   2. UL 1995 certification for safety including electric heat.
   3. ARI 430 listed and meet NFPA 90A requirements.

1.4 SHOP DRAWINGS

A. Indicate assembly, unit dimensions, weight loading required clearances, construction details, field connection details, and electrical characteristics and connection requirements.
B. Submit fan performance curve for each unit:
   1. Plot fan volume against static pressure, horsepower and efficiency.
   2. Show point of rating based on static requirements of the system.
   3. Chart of specific sound power level at each octave band center frequency.
   4. For variable volume units, plot fan volume over entire range.
C. Submit for review a unit internal static pressure loss calculation.
   1. Provide an itemized list of static pressure loss at the scheduled CFM for each unit component including and not limited to:
      a. Coils
      b. Dirty filters
      c. Fan and unit system effect
      d. Cabinet and cabinet inlet and outlet
      e. Unit mounted dampers
   2. If a unit mounted outside air pretreatment section without supply fan, “piggyback” is specified:
      a. Provide an itemized static pressure loss as indicated above.
      b. Determine losses for unit configuration, i.e. parallel or series.
      c. Include losses in the primary unit internal static pressure required by configuration.
   3. The air handling unit schedule indicates static pressure external to the unit and does not include any losses associated with the air handling equipment.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Do not operate units until ductwork is clean, filters are in place, bearings lubricated, condensate properly tapped, piping connections verified and leak tested, belts aligned and tensioned, all shipping braces have been removed, and fan has been tested under

observation.

1.6 DELIVERY, STORAGE AND HANDLING

A. Inspect for transportation damage and store in a clean, dry location. Protect from weather and construction traffic.

B. Manufacturer shall provide quick shipment options to minimize product lead times.

1.7 WARRANTY

A. The Air Handling Unit manufacturer shall provide a full machine parts and labor warranty for a period of one (1) year from substantial completion.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Carrier
B. Daikin
C. JCI
D. Temtrol
E. Thermal
F. Trane

2.2 MISCELLANEOUS REQUIREMENTS

A. Provide factory assembled units. Large units may be shipped in sections, at contractor's option, to enable entrance to building, or for oversize shipping reasons only.

B. Furnish units with sealing and fastening hardware supplied by the manufacturer. Include written instructions needed to complete field assembly of the components.

C. Provide units designed and constructed so that coils, panels, fan housing and fans can be removed without affecting the structural integrity of the unit.

D. Unit casing panels shall be double wall construction with solid galvanized exterior and solid galvanized interior. Panels shall have a minimum thermal resistance of R-13. The casing shall not exceed 0.0042 inch deflection per inch of panel span at 1.5 times the design static pressure up to a maximum of +8 inches in all positive pressure sections and -8 inches in all negative pressure sections. Condensation on the exterior of the air handling units is not acceptable.

E. Provide full perimeter base rail channel under units constructed of heavy gauge galvanized steel (minimum 10 gauge) and intermediate cross members to assure unit integrity. Provide minimum size base rail to ensure proper trapping and slope of condensate drain (minimum 6 inch from bottom of drain opening).

F. Fan assembly shall be provided with 1" deflection internally mounted spring vibration isolation under the fan and motor base on units with coils less than 8 sq. ft. and 2" deflection internally mounted spring vibration isolation under the fan and motor base with coils greater than 8 sq. Ft. Units with coils over 35 sq. ft. shall have spring thrust restraints securing the fan housing to the discharge opening panel on units. Fan motor shall be internally mounted. Provide internal flex connection of fan discharge. Maximum acceptable RPM of fan shall not exceed 1000.

G. Provide factory installed removable hinged access doors in the following locations:
   1. Entering and leaving side of all coils to allow for cleaning of coils on both sides of unit.
   2. Each side of filter compartment to allow changing of filters from either side.
   3. Each side of motor compartment to allow motor and isolation access.
   4. Each side of condensate drain pan to allow for cleaning and inspection.
   5. Swing the doors against the casing static pressure.

H. Provide all coil modules, including heating coil modules, with stainless steel drain pans to facilitate cleaning and maintenance of the coils. Drain pan to extend 10” minimum

downstream of cooling coil.

I. Provide coils with stainless steel casings, end plates, tube supports and top & bottom plates.

J. Units shall meet ASHRAE III Class 6 Low Leakage Standard. Casing shall have less than a 1% leakage rate at plus or minus 8 inches W.G.

2.3 DRAW THROUGH AIR HANDLING UNITS

A. Provided with:
   1. Non-Overloading direct drive plenum fans. Provide minimum number of fans as indicated on drawings.
   2. Insulated sheet metal cabinet with removable panels for access to the interior.
   3. Hinged double wall doors with two-step safety handles.

B. Drive assembly:
   1. Sized for 50% overload.

C. Motors and Control:
   1. Totally enclosed, fan cooled, Variable speed, 1750 rpm.
   2. Maximum operating point of 70 Hz.
   3. Minimum 90% nominal efficiency at loads of 70%-100%.
   4. Premium efficiency inverter duty
   5. NEMA B design, with Class B insulation, capable to operate continuously at 104 deg F without tripping overloads.
   6. +/- 10% voltage utilization range to protect against voltage variation.
   5. Cast iron frame and end plate
   6. Forged steel lifting eye
   7. Oversized conduit box with ground lug
   8. Provide with factory installed shaft grounding rings by Aegis
   9. Motor selected so that the brake horsepower required to deliver the design air quantity at the system static pressure will not exceed the motor nameplate rating.

D. Supply Fans:
   1. Single width, single inlet, backward curved welded aluminum plenum fan.
   2. Statically and dynamically balanced to a BV-3 per AMCA 204 test standard.
   3. Tested after being installed in the fan sections.
   4. Selected for the design air quantities and pressure of the system.
   5. Mounted on a common shaft if multiple wheels.
   6. The fan shall be rated in accordance with AMCA 210 for performance and AMCA 260 for sound.
   7. Minimum of Class II fan.

E. Fans selected with isolation shall be internally isolated with spring isolators. A flexible connection shall be installed between fan and unit casing to ensure complete isolation. Flexible connection shall comply with NFPA 90A and UL 181 requirements. If fans and motors are not internally isolated, then the entire unit shall be externally isolated from the building, including supply and return duct work, piping, and electrical connections. External isolation shall be furnished by the installing contractor to avoid transmission of noise and vibration through the ductwork and building structure.

F. Each direct drive fan in a multiple-fan array shall be provided with integral back flow prevention: a backdraft damper that prohibits recirculation of air in the event a fan or multiple fans become disabled. Dampers are tested and rated based on AMCA Standard 500. Dampers to be heavy duty type capable of a maximum back pressure that exceeds the design total static pressure with minimal leakage. The dampers should have a minimal total effect on airflow performance; both pressure drop when open and system effect on the fan. The damper blades and frame shall be extruded aluminum with blade edge seals locked into the blade edge. Adhesive type seals are unacceptable. AHU manufacturer responsible for providing proper spacing upstream of dampers to ensure

full, uniform airflow through upstream components. For units where the damper(s) are supplied at the jobsite, the installing contractor shall contract a certified TAB contractor to verify uniform airflow thru upstream components.

G. Select fan to operate at or near its maximum efficiency point when handling the required air quantity and static pressure.

H. Stainless steel condensate pan with positive slope in all directions to outlet. Line the condensate drain pan with minimum 2" waterproof insulation.

I. Insulation, vapor barriers, facings and adhesives shall have:
   1. Flame spread not higher than 25.
   2. Smoke developed rating not higher than 50.

K. Filter section:
   1. Constructed with substantial hinges.
   2. Neoprene gasketing.
   3. Permanent quick release latching devices.
   4. Arranged to accommodate 2" thick filters as specified.
   5. Filter rack shall be factory manufactured to accommodate the filter sizes listed below. Filter racks shall not be altered in the field.
   6. Low velocity angled filter section unless otherwise specified.
   7. 16x20x2, 16x25x2, 20x20x2, 20x25x2 only.

L. Cooling coils as specified. Extend drain and vent piping through cabinets. Provide grommets at all pipe penetrations through cabinets.

M. Heating coils as specified. Extend drain and vent piping through cabinets. Provide grommets at all pipe penetrations through cabinets.

N. Provide each fan section with an additional 2” think perforated metal inner liner which utilizes fiberglass insulation. Liner shall be installed on all walls and top surface.

O. Factory dynamic fan balancing shall be conducted from 16Hz to 60Hz to identify and eliminate critical speeds to ensure stable operation through the entire operating range of the fan and drive assembly. Field fan balancing is not acceptable. Forward factory balancing test report to Engineer upon request.

2.4 BLOW THROUGH VARIABLE AIR VOLUME AIR HANDLING UNIT – DOUBLE DUCT

A. Provided with:
   1. Non-Overloading direct drive plenum fans. Provide minimum number of fans as indicated on drawings.
   2. Insulated sheet metal cabinet with removable panels for access to the interior.
   3. Hinged double wall doors with two-step safety handles.

B. Drive assembly:
   1. Sized for 50% overload.

C. Motors and Control:
   1. Totally enclosed, fan cooled, Variable speed, 1750 rpm.
   2. Maximum operating point of 70 Hz.
   3. Minimum 90% nominal efficiency at loads of 70%-100%.
   4. Premium efficiency inverter duty
   5. NEMA B design, with Class B insulation, capable to operate continuously at 104 deg F without tripping overloads.
   6. +/- 10% voltage utilization range to protect against voltage variation.
   5. Cast iron frame and end plate
   6. Forged steel lifting eye
   7. Oversized conduit box with ground lug
   8. Provide with factory installed shaft grounding rings by Aegis
   9. Motor selected so that the brake horsepower required to deliver the design air quantity at the system static pressure will not exceed the motor nameplate rating.

D. Supply Fans:

1. Single width, single inlet, backward curved welded aluminum plenum fan.
2. Statically and dynamically balanced to a BV-3 per AMCA 204 test standard.
3. Tested after being installed in the fan sections.
4. Selected for the design air quantities and pressure of the system.
5. Mounted on a common shaft if multiple wheels.
6. The fan shall be rated in accordance with AMCA 210 for performance and AMCA 260 for sound.
7. Minimum of Class II fan.

E. Fans selected with isolation shall be internally isolated with spring isolators. A flexible connection shall be installed between fan and unit casing to ensure complete isolation. Flexible connection shall comply with NFPA 90A and UL 181 requirements. If fans and motors are not internally isolated, then the entire unit shall be externally isolated from the building, including supply and return duct work, piping, and electrical connections. External isolation shall be furnished by the installing contractor to avoid transmission of noise and vibration through the ductwork and building structure.

F. Each direct drive fan in a multiple-fan array shall be provided with integral back flow prevention: a backdraft damper that prohibits recirculation of air in the event a fan or multiple fans become disabled. Dampers are tested and rated based on AMCA Standard 500. Dampers to be heavy duty type capable of a maximum back pressure that exceeds the design total static pressure with minimal leakage. The dampers should have a minimal total effect on airflow performance; both pressure drop when open and system effect on the fan. The damper blades and frame shall be extruded aluminum with blade edge seals locked into the blade edge. Adhesive type seals are unacceptable. AHU manufacturer responsible for providing proper spacing upstream of dampers to ensure full, uniform airflow through upstream components. For units where the damper(s) are supplied at the jobsite, the installing contractor shall contract a certified TAB contractor to verify uniform airflow thru upstream components.

G. Select fan to operate at or near its maximum efficiency point when handling the required air quantity and static pressure.

H. Stainless steel condensate pan with positive slope in all directions to outlet. Insulate the condensate drain pan with a minimum of 1-1/2" waterproof insulation.

I. Insulation, vapor barriers, facings and adhesives shall have:
1. Flame spread not higher than 25.
2. Smoke developed rating not higher than 50.

J. Filter section:
1. Constructed with substantial hinges.
2. Neoprene gasketing.
3. Permanent quick release latching devices.
4. Arranged to accommodate 2" thick filters as specified.
5. Filter rack shall be factory manufactured to accommodate the filter sizes listed below. Filter racks shall not be altered in the field.
6. Low velocity angled filter section unless otherwise specified.
7. 16x20x2, 16x25x2, 20x20x2, 20x25x2 only.

K. Cooling coils as specified. Extend drain and vent piping through cabinets. Provide grommets at all pipe penetrations through cabinets.

L. Heating coils as specified. Extend drain and vent piping through cabinets. Provide grommets at all pipe penetrations through cabinets.

M. Provide a factory installed equalizing grid in the hot deck where heating coils are not installed.

N. Factory dynamic fan balancing shall be conducted from 16Hz to 60Hz to identify and eliminate critical speeds to ensure stable operation through the entire operating range of the fan and drive assembly. Field fan balancing is not acceptable. Forward factory balancing test report to Engineer upon request.

O. Design the entrance to the hot and cold decks and baffle to preclude wiping action of the air stream.
P. Provide units with factory fabricated mixing box section that include an additional 2” thick metal perforated inner liner which utilizes fiberglass insulation. Liner shall be installed on all walls and top surface.
Q. Provide each fan section with an additional 2” think perforated metal inner liner which utilizes fiberglass insulation. Liner shall be installed on all walls and top surface.
R. Factory dynamic fan balancing shall be conducted from 16Hz to 60Hz to identify and eliminate critical speeds to ensure stable operation through the entire operating range of the fan and drive assembly. Field fan balancing is not acceptable. Forward factory balancing test report to Engineer upon request.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install air handling units according to manufacturer's instructions.
B. Provide additional drive packages as required by the Testing and Balancing firm.
C. Air leaks detectable by sound or touch are to be corrected.
D. Air handling units are to be properly supported to prevent flexing, bending or distorting base rails.
E. All coils and drain pans are to be cleaned prior to substantial completion if units are used during construction.

F. Clean all air handling units and return to original manufacturer's condition prior to substantial completion. Vacuum clean all debris from inside air handling equipment.
G. Install piping to unit with full size 6 inch long dirt leg with 1/2" valve at bottom for cleaning.
H. Provide for positive gravity drainage of coil condensate. Pipe full size of unit connection.
I. Adjust fan drives as required to obtain scheduled capacities as directed by the Test and Balance Firm to include sheave and belt replacement.
J. Align belts to eliminate wear and vibration of belts.
K. Verify correct drainage of condensate from condensate pan.
L. Verify correct rotation of fan and wiring of motor.
M. Lubricate all greaseable ball bearings with manufacturer’s suggested lubricant.
N. Replace filters as required if units are used during construction.
O. Provide piping installation so that after piping is completed and insulated there is full access to service unit and remove fan housing. Piping to coils shall not block fan section access or cause damage to piping insulation during access.
P. AHU motors must be wired with Kernay connections inside motor terminal boxes. No wire nuts. Kernay connections must be wrapped with rubber and electrical tape for insulation.

3.2 IDENTIFICATION

A. Furnish each unit with a durable, deep etched, .025” thick, factory installed aluminum identification plate, permanently mounted with the following information:
1. Unit identification as indicated on Contract Drawings.
2. Serial Number.
3. Model Number.
4. Capacity (CFM) and static pressure.
5. Motor HP.
6. Unit power supply: Volts / PH / Amps.
7. Supply Fan Type.
8. Coil GPM and pressure drop.
9. Sales Order #.
10. Date unit manufactured.

END OF SECTION

1. PAVING

(FOR H.C. PUBLIC R.O.W. ONLY)

	DESIGN THICKNESS OF PAVING	STABILIZED SUBGRADE DEPTH	DESIGN STRENGTH OF CONCRETE	STEEL SPACING LONG.	STEEL SPACING TRANS.	REINFORCE STEEL SIZE
CONCRETE	(IN.)	(IN.)	(PSI)	(IN.)	(IN.)	(#4 MIN.)

	DESIGN SURFACE COURSE THICKNESS	DESIGN SURFACE COURSE TYPE	DESIGN BASE COURSE THICKNESS	DESIGN BASE COURSE TYPE	STABILIZED SUBGRADE THICKNESS	STABILIZED SUBGRADE TYPE
ASPHALT	(IN.)	(MATERIAL)	(IN.)	(MATERIAL)	(IN.)	(MATERIAL)

DRIVEWAYS (in H.C. ROW only)

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED INCLUDE WIDENING OR REPAVING EXISTING DRIVEWAYS AS WELL AS NEW DRIVEWAYS

DRWY.	WIDTH	MATERIAL	CULVERT?	CULVERT LENGTH	NEAREST X-STREET	DIST. TO X-STREET
1						
2						
3						
4						
5						

II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET ____

FIRE APPARATUS ACCESS ROAD

■ REQUIRED AND SHOWN ON SHEET(S) C3.00
☐ NOT REQUIRED DUE TO _____

CURBING

I. ISLANDS, MEDIANS AND ALL AREAS NOT TAKING DIRECT DRIVEWAY ACCESS REQUIRES STANDARD 6" CURBING

II. ■ STANDARD 6" CURBING PROPOSED
☐ 4" x 12" CURBING PROPOSED EXCEPT AT MEDIANS AND ISLANDS

TRAFFIC CONSIDERATIONS

I. MEDIAN CUTS
■ NO MEDIAN CUT OR RELOCATION IS PROPOSED
☐ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET _____

II. LEFT / RIGHT TURN LANE
■ NO LEFT / RIGHT TURN LANE IS PROPOSED
☐ LEFT / RIGHT TURN LANE IS SHOWN ON SHEET _____

III. TRAFFIC CONTROL PLAN
■ NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW
☐ TRAFFIC CONTROL SHOWN ON SHEET _____

IV. TRAFFIC SIGNAL
■ NO TRAFFIC SIGNAL IS EXISTING / PROPOSED
☐ EXISTING TRAFFIC SIGNAL DEVICES (T.C. BOXES AND LOOPS) SHOWN ON SHEET _____
☐ PROPOSED TRAFFIC SIGNAL (BY OTHERS)

V. TRAFFIC IMPACT ANALYSIS
■ NO TRAFFIC IMPACT ANALYSIS IS REQUIRED
☐ TRAFFIC IMPACT ANALYSIS HAS BEEN APPROVED ON DATE:_____
PLAN TITLE: _____
HCPID PROJECT NO.: _____

5. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION
A. ACREAGE: 130.00 ACRES
B. ☐ SUBDIVISION: _____
■ SURVEY & ABSTRACT: W. C. RR. CO. SEC. 1 SURVEY ABSTRACT NO. 914, W. C. DAVIS SEC. 2 SURVEY ABSTRACT NO. 1392, H. & T. C. RR. CO. SEC. 15 SURVEY ABSTRACT NO. 433, W. C. DAVIS SEC. 16 SURVEY ABSTRACT NO. 1391
C. ADJACENT ROADS: FRY ROAD, CYPRESS NORTH HOUSTON ROAD

II. PLATTING
A. SUBDIVISION PLAT
☐ PROPOSED PLAT / REPLAT
■ RECORDED PLAT / REPLAT
PLAT NAME: CYPRESS-FAIRBANKS I.S.D. HIGH SCHOOL NO. 9
B. STREETS PROPOSED
☐ PUBLIC
☐ PRIVATE
☐ PUBLIC & PRIVATE
☐ NONE

III. JURISDICTIONS
☐ CITY OF _____
■ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF _____
☐ NO ETJ

IV. HCAD ACCOUNT NOS. (ALL) KEY MAP PAGE 366Q, 366U
1293600010001, 1293600010002

V. UNOBSTRUCTED VISIBILITY EASEMENT (U.V.E.)
☐ REQUIRED AND SHOWN ON SHEET(S) _____
■ NOT REQUIRED

NOTE: ALL APPROVED, FINAL PLATS AND ASSOCIATED CPC101 FORMS MUST BE INCLUDED WITH PLAN SUBMITTAL.

☐ CONFORMING SUBDIVISION
☐ NON-CONFORMING SUBDIVISION
☐ PARTIALLY NON-CONFORMING SUBDIVISION

2. RESIDENTIAL / SUBDIVISION DRAINAGE

I. PROPOSED DRAINAGE SYSTEM TYPE
☐ STORM SEWER
■ ROADSIDE DITCH
☐ LOW IMPACT DEVELOPMENT (LID)

II. DESIGN METHOD USED
☐ CITY OF HOUSTON _____ YEAR FREQUENCY
☐ OTHER: _____

III. DRAINAGE SYSTEM OUTFALLS DIRECTLY TO EXISTING
☐ DETENTION POND (APPROVED H.C. PRJ NO.): _____
DETENTION POND MAINTAINED BY: _____
☐ HCFCD DRAINAGE DITCH UNIT NO.: _____
☐ H.C. ROADSIDE DITCH (ROAD NAME): _____
☐ H.C. STORM SEWER (APPROVED H.C. PRJ NO.): _____

IV. H.C. OUTFALL CALCULATIONS
☐ ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ____
☐ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ____

V. DETENTION PROVIDED BY
☐ DETENTION BASIN IS PART THIS PLAN SET. SERVICE AREA MAP IS ON SHEET ____
☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.): _____

PROPOSED STORM SEWER IS SUBMERGED (AGREEMENT MUST BE PROVIDED).
STATIC W.S.E. @ OUTFALL IS _____

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET ____ OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED _____.

TOTAL ACREAGE = ____
TOTAL DISCHARGE = ____

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. COMMERCIAL / OTHER SITE DRAINAGE

I. PROPOSED DRAINAGE AREA
☐ NEW DEVELOPMENT AREA: _____
■ RE-DEVELOPMENT AREA (NET NEW DEVELOPED AREA): 0.1455 AC-FT (6,340.01 SQ-FT)
☐ LOW IMPACT DEVELOPMENT (LID)

II. DETENTION VOLUME
NEW AREA 0.1455 x ✲ = 0.109 ACRE FEET
DETENTION REQUIRED
✲ ☐ .65 (CHANNEL)
✲ ■ .75 (STM SWR)
✲ ☐ 1.00 (RD. DITCH)
✲ ☐ OTHER: _____
PROPOSED DETENTION VOLUME = 0.125 ACRE FEET
PROPOSED DETENTION VOLUME CALCULATIONS ARE SHOWN ON SHEET C24.00

DETENTION VOLUME PROVIDED BY EXISTING DETENTION POND
APPROVED H.C. PROJECT NO.: 1000699
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET C24.01

III. OUTFALL
OUTFALL TO ☐ H.C. ROADSIDE DITCH
☐ EXISTING H.C. STORM SEWER
■ OTHER CYPRESS CREEK LAKES SEC. 5
☐ ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ____
■ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: 23 (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ____

IV. PUMPED DETENTION FACILITIES
VOLUME THAT GRAVITY FLOWS: 51.32 ACRE FEET
VOLUME THAT IS PUMPED: 71.4 ACRE FEET
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: _____
PUMP SPECIFICATIONS AND AUTOMATIC SHUTOFF PLAN FOR ROADSIDE DITCH & STORM SEWER OUTFALLS APPEAR ON SHEET _____

V. FLOW RESTRICTOR SIZE
OUTFALL PIPE SIZE: 36"
RESTRICTOR PIPE SIZE: _____

NOTE: ALL ROADSIDE DITCH OUTFALLS REQUIRE EROSION CONTROL MEASURES. RIPRAP IS NOT ALLOWED AS AN EROSION CONTROL MEASURE IN HARRIS COUNTY ROW. ALL PUMPED DETENTION OUTFALLS TO ROADSIDE DITCHES REQUIRE MANHOLE W/ LEADS.

4. WATER AND WASTEWATER

I. COMMERCIAL PROJECTS

DOES PROPERTY HAVE EXISTING AND/OR PROPOSED UTILITIES?
■ YES ☐ NO

IF YES, CHECK THE BOX THAT APPLIES TO THIS PROJECT
■ PUBLIC WATER & SANITARY
☐ PRIVATE WATER WELL & SEPTIC SYSTEM
☐ PUBLIC WATER & PRIVATE SEPTIC SYSTEM
☐ PRIVATE WATER WELL & PUBLIC SANITARY

NOTE: PUBLIC UTILITIES REQUIRE A LETTER FROM THE DISTRICT/ MUNICIPALITY AUTHORIZING SERVICE & CONNECTION. THIS IS REQUIRED FOR PLAN APPROVAL.

UTILITY DISTRICT/MUNICIPALITY NAME: H.C.M.U.D. 374

NOTE: SEPTIC SYSTEMS REQUIRE H.C. WASTE WATER REVIEW

H.C. SEPTIC PERMIT/REQUEST NO. N/A

NOTE: ALL EXISTING AND PROPOSED UTILITIES MUST BE ACCURATELY SHOWN & LABELED ON THE SITE PLANS.

II. SUBDIVISION PROJECTS

☐ UTILITY DISTRICT/MUNICIPALITY NAME: _____

☐ PRIVATE WATER & WASTE WATER SYSTEMS
☐ PRIVATE WATER & INDIVIDUAL OSSF
☐ INDIVIDUAL WATER WELL & OSSF

NOTE: A COPY OF TCEQ APPROVAL FOR PRIVATE WATER & WASTE WATER SYSTEMS IS REQUIRED FOR PLAN APPROVAL.

NOTE: DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND PERMITTING BY THE UNDERGROUND FIRE LINE CONTRACTOR. CIVIL REIVEW DOES NOT REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SYSTEMS.

WASTEWATER TREATMENT PLANTS

H.C. WWTP REVIEW:

IS THE PROPOSED PROJECT A NEW WWTP SITE OR A REHAB/EXPANSION OF AN EXISTING WWTP SITE? ☐ YES ■ NO

IF YES, IS A HARRIS COUNTY DOMESTIC WASTEWATER TREATMENT PLANT EXPRESS REVIEW SHEET ATTACHED AND COMPLETED ACCORDING TO INSTRUCTIONS? ☐ YES ☐ NO

REFER TO: WWW.ENG.HCTX.NET/PERMITS/WASTEWATER/REGULATIONS-STANDARDS-DETAILS FOR DOMESTIC WWTP ERS FORM

10. PERMITS REQUIRED

DOES THE PROPERTY HAVE ANY VIOLATIONS? IF SO PLEASE PROVIDE ALL VIOLATION NUMBERS. _____

☐ STORM WATER QUALITY
☐ SEPTIC (EXISTING) ☐ SEPTIC (PROPOSED)
■ CIVIL SITE WORK (PHASE II PERMIT CLASS I (non-floodplain))
☐ CIVIL SITE WORK (PHASE II PERMIT CLASS II (floodplain))
☐ DRIVEWAY WITH CULVERT _____ CURB AND GUTTER _____
☐ BUILDING PERMITS (NO. OF BUILDINGS = _____) ☐ CRITICAL FACILITY
☐ SUBDIVISION INFRASTRUCTURE PHASE II (NO. OF LOTS = _____)
☐ NOTICE OF DETENTION AFFIDAVIT REQUIRED
☐ MUD MAINTENANCE AGREEMENT REQUIRED
NOTES: _____

~~WORK IN HARRIS COUNTY R.O.W.~~
☐ UTILITY WORK _____
☐ TURN LANE _____
☐ OTHER CONSTRUCTION _____

NOTES:
A PERMIT IS REQUIRED FOR EACH SCOPE OF WORK ON SITE.
A R.O.W. NOTIFICATION IS REQUIRED FOR EACH SCOPE OF WORK IN HC OR HCFCD ROW.
REFER TO www.eng.hctx.net/permits FOR EACH SCOPE OF WORK IN HC OR HCFCD ROW.

6. STORMWATER QUALITY

I. SWPPP: CONSTRUCTION MEASURES. (Complete for ALL projects)
■ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) C12.00, C18.00, C23.00, C25.00
☐ DISTURBS <1AC. N/A

II. APPLICABILITY FOR PERMANENT FEATURES. (must be completed on all projects)
EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (must be verified with plat)
EXEMPT REDEVELOPMENT:
☐ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A, Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (must be verified with plat)
EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)
GENERAL:
■ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: HARRIS COUNTY
■ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE: CYPRESS-FAIRBANKS I.S.D. DETENTION BASIN AND STORM WATER PUMP STATION TO SERVE 130 ACRE TRACT
HARRIS COUNTY PROJECT NO. _____ & SWQ PERMIT NO. _____
STORMWATER QUALITY MANAGEMENT PLAN:
■ SITE PLAN ON SHEET(S) C24.02

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)
☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
■ POND STRUCTURE USED (~~WET~~, DRY, ~~WETLAND~~) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) FLOATABLES COLLECTION SCREEN, SEE SHEET C24.04
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
■ OTHER(S): STORMTROOPER, SEE SHEET C24.03

7. FLOOD PLAIN STATUS

I. GENERAL INFORMATION
FIRM PANEL(S) FOR PROPERTY: 48201C0405M, 48201C0415N
FIRM PANEL(S) DATE: 10/16/2013, 11/15/2019
STATUS OF PROPERTY ON MAP
■ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET_____ (0.2% BASE FLOOD LEVEL_____)
ELEVATION INFORMATION
BENCHMARK USED
■ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT *(2001 ADJ.)*
HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110705R IS A BRASS DISK STAMPED "110705R" LOCATED AT THE SOUTHEAST CORNER OF BRIDGE AT CREEKSIDE CROSSING DRIVE AND STREAM K150-00-00 NEAR THE CYPRESS WATERSHED IN KEY MAP 366P. ELEVATION = 154.57' (NAVD 88, 2001 ADJ.)

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
■ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL)
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL): ~~2056~~ (2056 ADJ.) CUBIC YARDS
BELOW 0.2% BASE FLOOD ELEVATION ____
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: _____ (2001 ADJ.) _____ CUBIC YARDS
BELOW 0.2% BASE FLOOD ELEVATION ____
C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET _____
VERIFIED BY: _____

IV. ☐ CLOMR REQUIRED ☐ CLOMR REQUIRED

8. CURB RAMPS

A. ARE CURB RAMPS THAT CONNECT TO PUBLIC STREETS PROPOSED IN THIS SET OF PLANS? [☐] YES [■] NO

9. LANDSCAPING

☐ REQUIRED AND SHOWN ON SHEET(S) _____
☐ NOT REQUIRED

BENCHMARK REQUIREMENTS FOR PROPOSED BRIDGES AND OR NEW RESIDENTIAL SUBDIVISIONS

When the County Engineer has determined that a new benchmark will be required to be established for the proposed project, the developer shall be required to install a benchmark per section 8.0, part 2 of the Harris County Infrastructure Regulations.

Is a new Benchmark required for this project? *(to be determined by Harris County)* [_] yes [_] no

If a new Benchmark is required, the proposed benchmark information is shown on sheets ____

FOR PROJECTS LOCATED IN ANY FLOODPLAIN

Development constructed or placed in accordance with these plans will comply with all provisions of the Regulations of Harris County, Texas for Floodplain Management.

No net fill is allowed in the flood plain and no fill is allowed in the floodway.

FOUNDATION NOTES: (Applies to only buildings or building additions requiring a class II permit)

All water heaters, furnaces, air conditioning units, electrical distribution panels, and any other mechanical or electrical equipment must be elevated in accordance with Section 4.05 of Harris County Floodplain regulations.

Any electrical circuit serving a light switch or outlet located below the base (100-year) flood elevation shall be dropped from above and be on a separate breaker.

All materials used below the (100-year) base flood elevation are on approved FEMA Technical Bulletin 2-08 as Class 5 water-resistant, and approved in accordance with FEMA Technical Bulletin 1-08 for foundation openings.

Critical facilities located in the 0.2% or 500yr floodplain or 1% or 100yr floodplain shall have the lowest floor elevated to 3 feet or more above the 0.2% flood elevation, or 24 inches above the crown of the adjacent road, which ever results in a higher elevation.

Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters.

Access routes elevated to or above the level of the base flood shall be provided to all critical facilities to the extent possible.

A completed as-built certificate must be submitted after the structure is complete and before it is occupied.

The County Engineer's Office will post a final inspection notice on the structure once all requirements have been met.

No fill may be used to elevate structures in the 1% or 100yr flood plain. Structures may be constructed on an open foundation, such as piers, or on continuous foundation walls with properly sized and located openings. All foundations are required to be designed by a registered professional engineer.

All structures shall be designed to withstand a three second gust basic wind speed of 120mph.

*Completed **"Elevation Certificates** to be submitted: one at permitting, a second after the slab is poured or sub-floor is installed and before the framing starts, and a third is required once construction is finished. "(PER CURRENT FIRM PANEL) to the Harris County Engineering Department, 10555 Northwest Freeway, Suite 120, Houston, TX 77092*

HARRIS COUNTY ENGINEERING DEPARTMENT - PERMIT OFFICE NOTE:

THE PERMIT MANAGER SIGNATURE REPRESENTS THE FOLLOWING:
- THE COMPLETION OF REVIEW OF THESE PLANS
- INTERPOSE NO OBJECTION TO THE PROPOSED DESIGN ON PRIVATE PROPERTY
- APPROVAL OF WORK IN HARRIS COUNTY MAINTAINED RIGHT OF WAY
- APPROVAL OF WORK IN PROPOSED HARRIS COUNTY RIGHT OF WAY THAT IS TO BE ACCEPTED BY THE COUNTY

HCED SIGNATURE BLOCK:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, FRED DALLY, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE. I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS IN THEIR ENTIRETY ARE DESIGNED PER THE HARRIS COUNTY ENGINEERING STANDARDS, REGULATIONS, AND GUIDELINES UNLESS PROVIDED A VARIANCE BY THE COUNTY ENGINEER OR HIS DESIGNEE. SHOULD IT BE DEEMED BY HCED STAFF, THAT THE PLANS DO NOT MEET THE COUNTY'S STANDARDS, REGULATIONS AND GUIDELINES AND DID NOT RECEIVE AN APPROVED VARIANCE, THE APPROVAL OF SAID PLANS BECOMES NULL AND VOID AND THE DESIGN PLANS MUST BE CORRECTED AT NO CHARGE TO THE COUNTY.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS C0.00 THRU C26.03

SIGNATURE _____ DATE 11/20/2024

SEAL: STATE OF TEXAS · FRED DALLY · 90904 · LICENSED · PROFESSIONAL ENGINEER

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C. APPROVED DATE

HARRIS COUNTY
ENGINEERING DEPARTMENT
REVIEW SHEET

VERSION 20.0 MAY 27, 2020

HC PROJECT NO. 2411180064 HCFCD PROJECT NO. 2411180061 SHEET NUMBER ___ OF ___

Revision / Date
1 ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS · FRED DALLY · 90904 · LICENSED · PROFESSIONAL ENGINEER
11/20/2024

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HCED REVIEW SHEET

Job No.	Sheet No.
01818-05-01	C1.01
Drawn By: KS	
Date: 11/20/2024	

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1. PAVING

I. DESIGN THICKNESS OF PAVING _____
II. STABILIZED SUBGRADE TO A DEPTH OF _____
III. DESIGN STRENGTH OF CONCRETE _____ psi
IV. TYPE AND PLACEMENT OF STEEL: _____

NOTES:
I – IV TO BE COMPLETED ONLY IF PAVING IS TO BE ACCEPTED BY HARRIS COUNTY

DRIVEWAYS

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED: _____
II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET _____

NOTES:
I – II TO BE COMPLETED ONLY IF PROJECT ENTAILS CONSTRUCTION OF DRIVEWAYS AT TIME OF DEVELOPMENT

FIRE APPARATUS ACCESS ROAD

☐ REQUIRED AND SHOWN ON SHEET(S) _____
☐ NOT REQUIRED DUE TO _____

CURBING

I. ISLANDS AND MEDIANS REQUIRE STANDARD 6" CURBING
II. ☐ STANDARD 6" CURBING PROPOSED
☐ 4" x 12" CURBING PROPOSED
☐ 6" OR 4" x 12" ALLOWED EXCEPT AT MEDIANS AND ISLANDS

TRAFFIC CONSIDERATIONS

I. MEDIAN CUTS
☐ NO MEDIAN CUT OR RELOCATION IS PROPOSED
☐ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET _____

II. LEFT HAND TURN
☐ NO LEFT TURN LANE IS PROPOSED
☐ LEFT TURN LANE IS SHOWN ON SHEET _____

III. TRAFFIC CONTROL PLAN
☐ NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW
☐ TRAFFIC CONTROL SHOWN ON SHEET _____

IV. EXISTING TRAFFIC CONTROL
☐ DEVICES SHOWN ON PLANS (T.C. BOXES AND LOOPS)

NOTES:
I – III TO BE COMPLETED FOR ALL PROJECTS

2. SUBDIVISION DRAINAGE

DRAINAGE SYSTEM TYPE
☐ STORM SEWER
☐ ROADSIDE DITCH

II. DESIGN METHOD USED
☐ CITY OF HOUSTON _____ FREQUENCY
☐ OTHER _____

III. DRAINAGE SYSTEM OUTFALL
☐ TO DETENTION POND
☐ DETENTION POND MAINTAINED BY _____
☐ TO HCFCD DRAINAGE DITCH UNIT NO. _____
☐ TO HARRIS COUNTY ROADSIDE DITCH
ROAD NAME: _____
☐ STATIC W.S.E. @ OUTFALL IS _____.
☐ PROPOSED STORM SEWER IS SUBMERGED.

IV STORM WATER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
ACTUAL OUTFALL RATE: _____ (CFS)

☐ OTHER: _____

V. DRAINAGE SYSTEM FLOW RATE
FLOW PRIOR TO DETENTION: _____ CFS
FLOW AFTER DETENTION (IF REQUIRED) _____ CFS

NOTES:
I – IV REQUIRED ON ALL SUBDIVISION TYPE PROJECTS INCLUDING MANUFACTURED HOME PARKS.

3. SITE DRAINAGE

(OTHER THAN SUBDIVISION TYPE PROJECTS)

I. PROPOSED DRAINAGE AREA
☒ NEW DEVELOPMENT AREA: 131
☐ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): _____

II. DETENTION VOLUME (DRY BASIN)
NEW AREA 131 X 0.65 = 85.15 ACRE-FEET
DETENTION REQUIRED
PROPOSED VOLUME = 122 ACRE FEET

* SEE ATTACHED DRAINAGE REPORT

III. OUTFALL
OUTFALL TO ☐ ROADSIDE DITCH
☐ STORM SEWER
☒ OTHER CYPRESS CREEK LAKES SEC. 5
STATIC W.S.E. @ OUTFALL IS _____.
ROADSIDE DITCH OUTFALL:
ROAD FRONTAGE _____ X 0.0088 = _____(CFS) ALLOWABLE OUTFALL
PROPOSED OUTFALL RATE: _____
☒ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: 23 (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
ACTUAL OUTFALL RATE: _____ (CFS)

IV. PUMPED DETENTION FACILITIES
VOLUME THAT GRAVITY FLOWS: 51.32 ACRE FEET
VOLUME THAT IS PUMPED: 71.4 ACRE FEET
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: _____
PUMP SPECIFICATIONS AND OPERATING PLAN APPEAR ON SHEET _____

V. FLOW RESTRICTOR SIZE
OUTFALL PIPE SIZE: 36"
RESTRICTOR PIPE SIZE: _____

VI. ☐ PROPOSED STORM SEWER IS SUBMERGED.

NOTES:
I. REQUIRED FOR ALL PROJECTS OTHER THAN SUBDIVISION TYPE PROJECTS. DEVELOPMENT AREA INCLUDES ALL AREA WHERE BUILDING, PAVING OR GRADING WILL OCCUR. AREAS NOT INCLUDED BUT WITHIN THE PROPERTY'S BOUNDARIES MUST BE DELINEATED AS A "NO WORK" AREA ON THE DRAWINGS.
II. – V. REQUIRED WHEN PROPOSED FACILITY WILL INCREASE THE AMOUNT OF RUNOFF INTO A COUNTY DRAINAGE DITCH, ROADSIDE DITCH OR STORM SEWER. IF ANALYZED AND THE RECEIVING DRAINAGE STRUCTURE HAS CAPACITY IN THE FULLY DEVELOPED CONDITION OF THE AREA IT SERVES, NO DETENTION IS REQUIRED.

4. WATER AND WASTEWATER

I. TYPE OF SERVICE PROPOSED
☐ MUNICIPALITY: _____
☐ MUNICIPAL UTILITY DISTRICT: _____
☐ OTHER DISTRICT: _____
☐ PRIVATE WATER AND WASTEWATER SYSTEMS
☐ PRIVATE WATER SYSTEM AND INDIVIDUAL OSSF
☐ INDIVIDUAL WATER WELL AND OSSF
☐ OTHER: _____
☐ NO UTILITIES ARE PROPOSED

II. PROOF OF CAPACITY
☐ LETTER FROM DISTRICT AUTHORIZING SERVICE AND CONNECTION
☐ TCEQ APPROVAL FOR WATER SYSTEM AND PERMIT FOR WASTEWATER SYSTEM.
☐ TCEQ APPROVAL FOR WATER SYSTEM AND OSSF FEASIBILITY REPORT
☐ OSSF FEASIBILITY REPORT WHICH CONSIDERS INDIVIDUAL WELLS

III. AMOUNT OF FLOW
☐ RESIDENTIAL: _____ LOTS OR UNITS
☐ COMMERCIAL: _____ AVERAGE DAILY FLOW
☐ OTHER: _____

NOTES:
I. COMPLETE FOR ALL PROJECTS
II. COMPLETE FOR ALL PROJECTS.
III. COMPLETE ONLY IF TCEQ DISCHARGE PERMIT IS PROPOSED

5. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION / PLAT NAME:
CYPRESS-FAIRBANKS I.S.D.
HIGH SCHOOL No. 9

☒ NEW PLAT LOCATED IN THESE SURVEYS:
131 ACRES OUT OF ABSTRACTS 433, 914, 1391 & 1392
☐ REPLAT OF RECORDED SUBDIVISION OR RESERVE KNOWN AS _____

II. ADJACENT ROADS FRY ROAD & CYPRESS NORTH HOUSTON ROAD

III. JURISDICTIONS
☐ CITY OF HOUSTON
☐ CITY OF _____
☒ ETJ, CITY OF HOUSTON
☒ UTILITY DISTRICT: H.C.M.U.D. 374
☐ OTHER: _____

IV. HCAD ACCOUNT NOS. (ALL)

NOTES:
I., II., IV., COMPLETE FOR ALL PROJECTS
II. COMPLETE ONLY IF PROJECT IS LOCATED ADJACENT TO A PUBLIC OR PRIVATE ROAD.

6. STORM WATER QUALITY

I. CONSTRUCTION PROTECTIVE MEASURES.
☒ SWPPP SITE PLAN AND DETAILS ON SHEET(S) 8, 9, 10

II. APPLICABILITY FOR PERMANENT FEATURES.
☐ EXEMPT NEW DEVELOPMENT OF LESS THAN 5 ACRE PARCEL.
☐ EXEMPT REDEVELOPMENT OF A 5 ACRE OR LARGER PARCEL WHERE TOTAL IMPERVIOUS SURFACE (EXISTING PLUS PROPOSED) IS LESS THAN 1 ACRE.
☐ EXEMPT "GRAND FATHERED" BY AN EXISTING STORM SEWER LINE.
☒ "STORM WATER QUALITY MANAGEMENT PLAN" HAS BEEN/WILL BE INCLUDED IN A SEPARATE SUBMITTAL ENTITLED _____
☒ "STORM WATER QUALITY MANAGEMENT PLAN" INCLUDED. SWQMP SITE PLAN ON SHEET(S) 5

III. STORM WATER QUALITY FEATURES.
☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☒ POND STRUCTURE USED ~~(WET~~, DRY, ~~WETLANDS)~~ DETAILS AND CALCULATIONS APPEAR ON SHEET(S) 12
☐ HYDRODYNAMIC TYPE SEPERATOR MODEL: _____
☒ OTHER(S): STORMTROPPER, SEE SHEET 11

NOTES:
I – II REQUIRED ON ALL PROJECTS, II IF NOT EXEMPT OR "GRANDFATHERED"

7. FLOOD CONTROL DISTRICT CRITERIA

I. DETENTION SUMMARY

STORMWATER DETENTION BASIN ROUTING TABLE

DETENTION BASIN DRAINAGE AREA = 131 ACRES

RAINFALL EVENT PROBABILITY	PRE-DEVELOPED PEAK RUNOFF (CFS)	POST-DEVELOPED PEAK RUNOFF (CFS)	DETENTION BASIN PEAK OUTFLOW (CFS)	MAXIMUM WATER SURFACE ELEVATION	PEAK STORAGE VOLUME (AC-FT)	STORAGE RATE (AC-FT PER AC)
10% EXCEEDANCE (10-YEAR)			23	143.60	58.34	0.45
1% EXCEEDANCE (100-YEAR)		413	23	148.20	122.70	0.94

ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS:
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = 71.41 AC-FT 58 % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = N/A CFS
DRAIN TIME FOR BASIN = 37.06 HOURS BASED ON STATIC 5.5' HEAD CONDITIONS.

STORMWATER DRAINAGE DESIGN REPORT

REPORT TITLE DRAINAGE IMPACTS REPORT FOR CY-FAIR HIGH SCHOOL # 9
REPORT DATE NOVEMBER 2005 ENGINEERING FIRM DODSON & ASSOC., INC.
DATE OF ACKNOWLEGEMENT BY HCFCD OR FLOODPLAIN ADMINISTRATOR 12/22/2005

STORMWATER DETENTION FOR THE PROPOSED WORK CONTAINED IN THESE PLANS IS PROVIDED BY OTHER PLANS:
PLAN TITLE _____
ENGINEERING FIRM _____ DATE SIGNED BY HCFCD _____

II. HCFCD STANDARD NOTES: SEE SHEET N/A OF THESE PLANS.

III. HCFCD STANDARD DETAILS: SEE SHEET 12 OF THESE PLANS.

IV. REFER TO PLAN SHEETS _____ FOR EXISTING AND PROPOSED RIGHT OF WAY DELINEATION AND COMPLETE RECORDING INFORMATION TO INCLUDE CLERK'S FILE NUMBERS, TYPE OF ESTATE (e.g., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)

NOTES:
I. COMPLETE ONLY IF HCFCD OR HARRIS COUNTY IS REQUIRING DETENTION.
II. COMPLETE ONLY IF PROJECT HAS WITHIN IT OR IS IMMEDIATELY ADJACENT TO AN EXISTING OR PROPOSED HCFCD MAINTAINED CHANNEL OR DETENTION BASIN.
III. COMPLETE ONLY IF PROJECT INCLUDES NEW OUTFALL, BACKSLOPE INTERCEPTOR OR OTHER RELATED WORK WITHIN AN EXISTING OR PROPOSED HCFCD MAINTAINED CHANNEL OR DETENTION BASIN.
IV. COMPLETE ONLY OF PROJECT HAS WITHIN OR IMMEDIATELY ADJACENT TO IT AN EXISTING OR PROPOSED PUBLIC DRAINAGE CHANNEL OR DETENTION BASIN.

8. FLOOD PLAIN STATUS

I. GENERAL INFORMATION
FIRM PANEL(S) FOR PROPERTY: 48201C0405J, 48201C0415J
FIRM PANEL(S) DATE: NOVEMBER 6, 1996
STATUS OF PROPERTY ON MAP
☒ LOCATED IN UNSHADED ZONE "X"
☐ ENTIRELY LOCATED IN SHADED AND UNSHADED ZONE "X"
☐ LOCATED PARTIALLY IN ZONE "AE" DELINEATE ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT)
☐ LOCATED ENTIRELY IN ZONE "AE" (INDICATE BASE FLOOD LEVEL ON CONSTRUCTION DRAWINGS)
☐ OTHER
☐ SITE REMOVED FROM FLOODPLAIN BY LOMA OR LOMR-F CASE NO. _____

FLOOD HAZARD RECOVERY DATA
☒ FLOOD HAZARD RECOVERY DATA AVAILABLE AND UTILIZED (PROVIDED INFORMATION BASED ON 1973 AND 2001 ADJUSTMENTS).
☐ FLOOD HAZARD RECOVERY DATA NOT AVAILABLE.

ELEVATION INFORMATION
BENCHMARK USED
☐ FEMA BM benchmark
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
☒ OTHER
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT BRASS DISK STAMPED 110155 ON BRIDGE AT FRY RD AND CYPRESS CREEK. DISK LOCATED ON CONC. WALK ON SOUTHWEST CORNER OF SOUTHBOUND BRIDGE, SOUTH OF STREAM CENTERLINE ELEV= 150.20 (NAVD 1988, 2001 ADJ.)

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
☐ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN ZONE "X" (SHADED OR UNSHADED)
☐ PROPERTY LIES PARTIALLY BELOW THE BASE FLOOD LEVEL (MUST BE DELINEATED ON TOPOGRAPHIC SURVEY)

III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL).
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): i.e., BELOW ELEVATION _____(19 _____ ADJ.) _____ CUBIC YARDS
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: i.e., BELOW ELEVATION _____(19 _____ ADJ.) _____ CUBIC YARDS

NOTES:
I. COMPLETE FOR ALL PROJECTS.
II. COMPLETE ONLY IF PROJECT IS ADJACENT TO 100-YEAR FLOOD PLAIN

IV. ☐ LOMR REQUIRED

VERIFIED BY: _____

9. WHEEL CHAIR RAMPS / SIDEWALK

WHEEL CHAIR RAMPS PROPOSED YES ☐ NO ☐
SIDEWALKS PROPOSED YES ☐ NO ☐

NOTE: IF A MAJOR CATEGORY ON THIS SHEET IS NOT REQUIRED FOR THE PROJECT, "X" THROUGH THAT ENTIRE SECTION. CATEGORY (6) MUST BE COMPLETED.

HARRIS COUNTY
PUBLIC INFRASTRUCTURE DEPARTMENT
EXPRESS REVIEW SHEET

VERSION 10.0 JAN. 3, 2006

HCPID SIGNATURE BLOCK

PROJECT KNOWN AS:
CYPRESS-FAIRBANKS I.S.D.
CONSTRUCTION OF DETENTION BASIN TO SERVE 130 ACRE TRACT
WAS ACCEPTED BY THE FOLLOWING GROUPS FOR THE PURPOSES LISTED BELOW:
ENGINEERING DIVISION

BY _____ INTERPOSE NO OBJECTION DATE _____
BY _____ AS TO PAVING AND/OR DRAINAGE ONLY DATE _____
BY Shannon C. Watson AS TO LOCATION OF ITEMS IN COUNTY RIGHT OF WAY DATE 10/26/06
BY Shannon C. Watson AS TO STORM WATER QUALITY DATE 10/26/06

HARRIS COUNTY FLOOD CONTROL DISTRICT

BY _____ INTERPOSE NO OBJECTION
FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY DATE 11/21/06
APPROVED:
BY _____ FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY DATE _____
APPROVED:
BY _____ FOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY DATE _____

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. THESE SIGNATURES ARE VALID FOR A MAXIMUM OF TWO YEARS.

ENGINEER'S CERTIFICATION

I, W. JOEL SEYBERT, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.
THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 22.
SIGNATURE _____ DATE 11/16/06

REVISIONS

DATE	SHEET NO.	DESCRIPTION	ACKNOWLEDGMENT

CYPRESS-FAIRBANKS I.S.D.
CONSTRUCTION OF DETENTION BASIN TO SERVE 130 ACRE TRACT

PROJECT NO. 1000699 APPLICANT NO.

SHEET NUMBER 2 OF 22

W. JOEL SEYBERT 92999 LICENSED PROFESSIONAL ENGINEER

Revision / Date
1 ADDENDUM 2 11/20/2024

Project: 2024 CY RANCH HS ADDITIONS & RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER 11/20/2024

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DETENTION POND HCPID EXPRESS REVIEW SHEET (FOR REFERENCE ONLY)

Job No. 01815-05-01	Sheet No. C1.02
Drawn By: KB	
Date: 11/20/2024	

6/18/2024 3:40:48 PM
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16 Jan 2006 2:44PM chrism
F:\project\BROOK_SP\CY-FAIR\297074\Civil\Dirt_Pond\Express Review\V-10.dwg
Includes Xref(s):

1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
☐ 1 ☐ 2 ■ 3 ☐ 4

B. KEY MAP: 366Q, 366U

C. ADDRESS: 10700 FRY RD, CYPRESS, TX 77433

II. LEGAL DESCRIPTION

A. ACREAGE: 130.00 ACRES

B. ☐ SUBDIVISION: _____

■ SURVEY & ABSTRACT: W. C. RR. CO. SEC. 1 SURVEY ABSTRACT NO. 914
W. C. DAVIS SEC. 2 SURVEY ABSTRACT NO. 1392
H. & T. C. RR. CO. SEC. 15 SURVEY ABSTRACT NO. 433
W. C. DAVIS SEC. 16 SURVEY ABSTRACT NO. 1391

C. ADJACENT ROADS: FRY ROAD, CYPRESS NORTH HOUSTON ROAD

III. PLATTING

A. SUBDIVISION PLAT
☐ PROPOSED PLAT / REPLAT
■ RECORDED PLAT / REPLAT

PLAT NAME: CYPRESS-FAIRBANKS I.S.D. HIGH SCHOOL NO. 9

B. STREETS PROPOSED
☐ PUBLIC
☐ PRIVATE
☐ PUBLIC & PRIVATE
■ NONE

IV. JURISDICTIONS

☐ CITY OF _____
■ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF _____
☐ NO ETJ
☐ UTILITY DISTRICT (NAME)_____

V. HCAD ACCOUNT NOS. (ALL)

1293600010001, 1293600010002

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFCD ROW

A. BOND/NOTIFICATION INFORMATION
☐ HCFCD WATERSHED _____
☐ HCFCD UNIT No. _____
☐ NUMBER OF OUTFALLS _____
☐ UTILITY CROSSING
☐ ROADWAY BRIDGE/CULVERT CROSSING
☐ FILL ACTIVITY
☐ REHABILITATION OF CHANNEL
☐ MAINTENANCE
☐ TEMPORARY CROSSING
☐ TRAIL (LENGTH) _____
☐ OTHER _____
COST OF WORK IN HCFCD ROW _____

II. USACE ENVIRONMENTAL PERMIT

☐ US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S) _____
☐ US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
☐ OTHER
☐ NO PERMITS REQUIRED
EXPLAIN: _____

III. REFERENCE / BASIS OF DETERMINATION

☐ ENVIRONMENTAL CONSULTANT REPORT
BY _____
REPORT TITLE _____
REPORT DATE _____
☐ OTHER _____

NOTES:
– III. REQUIRED ON PROJECTS WITH WORK IN A HCFCD CHANNEL.
– PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFCD STANDARD NOTES: SEE SHEET _____ OF THESE PLANS.

V. HCFCD STANDARD DETAILS: SEE SHEET _____ OF THESE PLANS.

VI. HCFCD ACCESS PLAN: SEE SHEET _____ OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS: _____
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFCD POLICY, CRITERIA, & PROCEDURE MANUAL. (i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)

2. SITE DETENTION DRAINAGE

I. PROPOSED DRAINAGE AREA

☐ NEW DEVELOPMENT AREA: _____
■ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): 0.1455 AC-FT (6,340.01 SQ-FT)
☐ LOW IMPACT DEVELOPMENT (LID)
METHOD/DESCRIPTION _____

II. METHODOLOGY

HCFCD PCPM DETENTION METHOD USED:
■ METHOD 1 (LESS THAN 20 ACRES)
☐ METHOD 2 (20 ACRES TO 640 ACRES)
☐ METHOD 3 (GREATER THAN 640 ACRES)
☐ OTHER _____

III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
☐ .65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.) _____
■ .75, EXISTING STORM SEWER (OWNER & OPERATOR) H.C.M.U.D. 374
☐ 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME) _____
☐ OTHER (OWNER & OPERATOR) _____

IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFCD PCPM SUMMARY TABLE SEE SHEET _____ OF THESE PLANS.

DETENTION BASIN SERVICE AREA		acres	
STORM EVENT	50% EXCEEDANCE (2-YEAR)	10% EXCEEDANCE (10-YEAR)	1% EXCEEDANCE (100-YEAR)
MAXIMUM ALLOWABLE OUTFLOW (PRE-DEVELOPMENT PEAK FLOW)			
MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN)			
LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE			
DESIGN WATER SURFACE ELEVATION			
MINIMUM STORAGE REQUIRED (ac-ft)			
DETENTION STORAGE PROVIDED (ac-ft)			
STORAGE RATE PROVIDED (ac-ft/ac)			
OUTFLOW VELOCITY INTO CHANNEL (ft/sec)			
DRAIN TIME – 1% ONLY (hours)			
EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)			

B. DETENTION BASIN TO BE MAINTAINED BY _____

C. DETENTION SERVICE AREA MAP ON SHEET _____

D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = _____ ACFT _____ % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = _____ FT/SEC
DRAIN TIME FOR BASIN = _____ HOURS BASED ON _____HEAD CONDITIONS

V. DETENTION PROVIDED IN OTHER PLANS:

HCFCD PROJECT No. 1000699 DATE SIGNED BY HCFCD: 01/26/2006
PLAN TITLE CYPRESS-FAIRBANKS I.S.D. CONSTRUCTION OF DETENTION BASIN TO SERVE 130 ACRE TRACT
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET C24.01
ENGINEERING FIRM BROOKS & SPARKS, INC.
DETENTION BASIN MAINTAINED BY: CYPRESS-FAIRBANKS I.S.D.

VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: 36"
RESTRICTOR PIPE SIZE: N/A
RESTRICTOR PLATE DIMENSION: N/A

VII. DETENTION PROVIDED BY

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRO No.): _____

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET ____ OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED _____.

TOTAL ACREAGE = ____
TOTAL DISCHARGE = ____

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

■ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) C12.00, C18.00, C23.00, C25.00
☐ DISTURBS <1AC. N/A

*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)

EXEMPT REDEVELOPMENT:
☐ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:
■ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: HARRIS COUNTY
■ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE:
CYPRESS-FAIRBANKS I.S.D. DETENTION BASIN AND STORM WATER PUMP STATION TO SERVE 130 ACRE TRACT
HARRIS COUNTY PROJECT No 1000699 & SWQ PERMIT No. _____

STORMWATER QUALITY MANAGEMENT PLAN:
■ SITE PLAN ON SHEET(S) C24.02

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
■ POND STRUCTURE USED (~~WET~~, DRY, ~~WETLANDS~~) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) FLOATABLES COLLECTION SCREEN, SEE SHEET C24.04
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
■ OTHER(S): STORMTROOPER, SEE SHEET C24.03

6. REPORTS/AGREEMENTS

I. HCFCD ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE DRAINAGE IMPACTS FOR CY-FAIR HIGH SCHOOL #9
HCFCD PROJECT # DRAINAGE IMPACTS FOR CY-FAIR HIGH SCHOOL #9
ENGINEERING FIRM DODSON & ASSOC., INC.
REPORT ACCEPTANCE DATE 12/22/2005

GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE _____
HCFCD PROJECT # _____
ENGINEERING FIRM _____
REPORT ACCEPTANCE DATE _____

HCFCD APPROVED VARIANCE
DESCRIPTION OF VARIANCE _____
DOCUMENT ID # _____
VARIANCE ACCEPTANCE DATE _____

II. AGREEMENT TYPE & No.;

☐ INTERLOCAL (ILA): _____
☐ HCFCD MAINTENANCE _____
☐ TURF ESTABLISHMENT _____
☐ OTHER _____

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0405M, 48201C0415N
FIRM PANEL(S) DATE: 10/16/2013, 11/15/2019
STATUS OF PROPERTY ON MAP
■ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET____

ELEVATION INFORMATION
BENCHMARK USED
■ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT *(2001 ADJ.)*
HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110705R IS A BRASS DISK STAMPED "110705R" LOCATED AT THE SOUTHEAST CORNER OF BRIDGE AT CREEKSIDE CROSSING DRIVE AND STREAM K150-00-00 NEAR THE CYPRESS WATERSHED IN KEY MAP 366P. ELEVATION = 154.57' (NAVD 88, 2001 ADJ.)

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

■ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY
(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) _____ CUBIC YARDS _____
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) _____ CUBIC ~~YARDS~~ _____ INCLUDING CALCULATIONS)
C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET

HCFCD SIGNATURE BLOCK

PROJECT NAME: 2024 CY RANCH HS ADDITIONS & RENOVATIONS FOR CYPRESS-FAIRBANKS ISD
ADDRESS: 10700 FRY RD, CYPRESS, TX 77433
WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:

HARRIS COUNTY FLOOD CONTROL DISTRICT

INTERPOSE NO OBJECTION
BY_____
FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY

APPROVED:
BY_____
FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY

APPROVED:
BY_____
FOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY

NO REVIEW REQUIRED:
BY_____
FINAL PERMITTING BY OTHERS

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, FRED DALLY, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS C0.00 THRU C26.03.

SIGNATURE _____ 11/20/2024 DATE

SEAL: STATE OF TEXAS · FRED DALLY · 90904 · LICENSED PROFESSIONAL ENGINEER

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C.F.C.D APPROVED DATE

HARRIS COUNTY FLOOD CONTROL PROJECT NO. 2411180061

SHEET NUMBER ___ OF ___

HARRIS COUNTY
FLOOD CONTROL DISTRICT
REVIEW SHEET

VERSION 1.0 OCTOBER 2019

Revision / Date
1 ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS · FRED DALLY · 90904 · LICENSED PROFESSIONAL ENGINEER
11/20/2024

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HCFCD REVIEW SHEET

Job No.	Sheet No.
01818-05-01	C1.03
Drawn By: KB	
Date: 11/20/2024	

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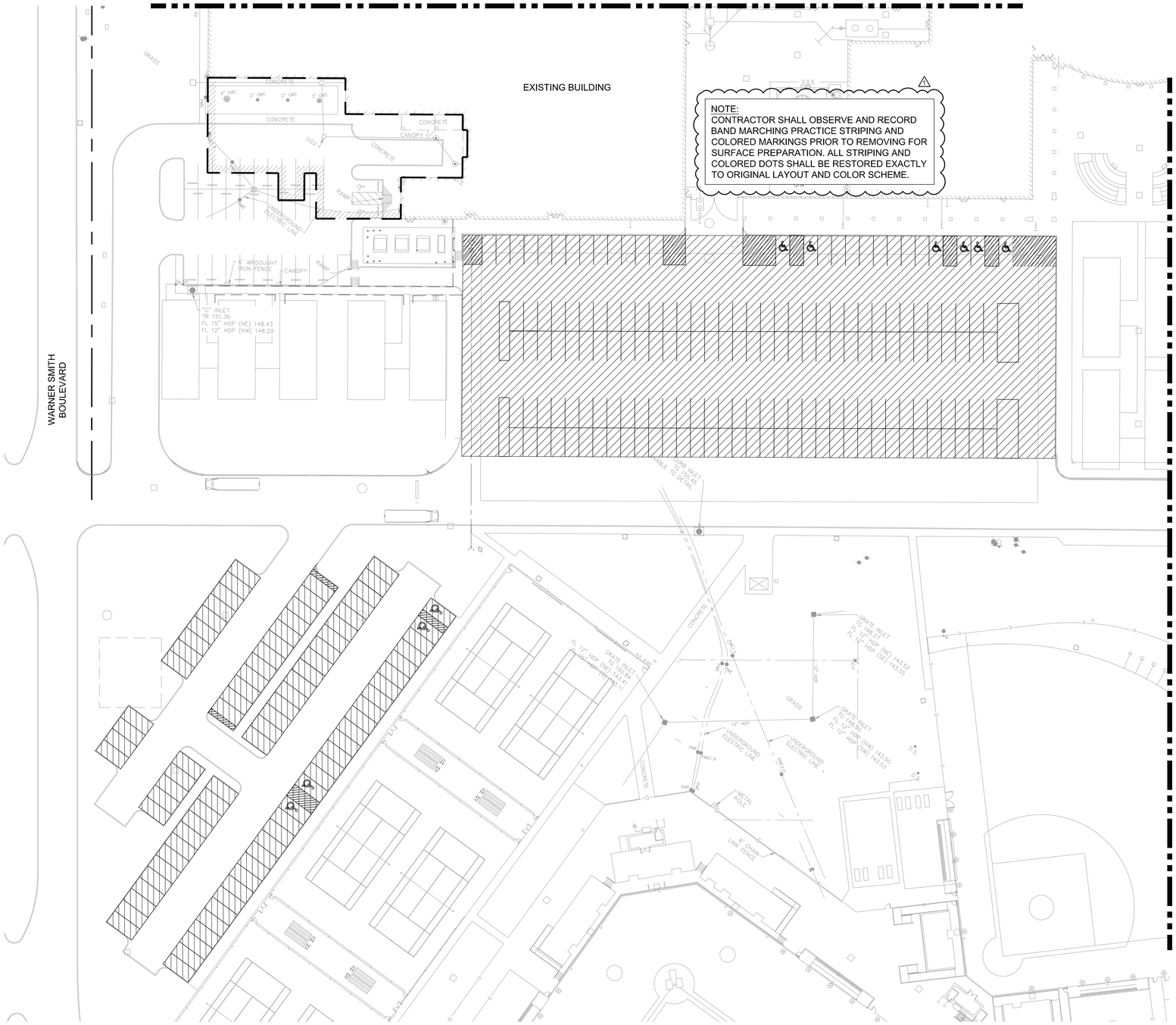
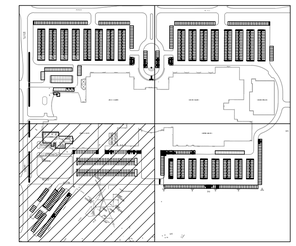
0' 15' 30' 60'

SCALE: 1"=30'





LEGEND

REMOVE EXISTING PARKING PAINT STRIPING AND NUMBERING AND PREPARE SURFACE FOR RE-STRIPING AND RE-NUMBERING.

DEMOLITION NOTES TO CONTRACTOR:

1. ALL SITE FEATURES NOT IDENTIFIED TO BE DEMOLISHED ARE TO REMAIN AND SHALL BE PROTECTED-IN-PLACE.
2. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
3. CONTRACTOR TO FOLLOW ALL RECOMMENDED SAFETY AND DISPOSAL PROCEDURES INCLUDING BUT NOT LIMITED TO EPA, TCEQ & OSHA.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS OFFSITE.
5. ALL TRAFFIC SIGNAGE WITHIN THE ROW SHALL BE PROTECTED IN PLACE AT ALL TIMES. ANY DAMAGE TO THESE DEVICES SHALL BE REPAIRED IMMEDIATELY.
6. CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL ENTER AND EXIT THE SITE THROUGH EXISTING DRIVEWAY.

PARKING DEMOLITION NOTES:

1. CONCRETE WHEEL STOPS SHALL BE REMOVED FOR REUSE IF NOT DAMAGED.
2. ACCESSIBLE PARKING SIGNAGE TO REMAIN. PROTECT IN PLACE.

Revision / Date
△ ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
11/20/2024

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PARKING - DEMOLITION PLAN
SHEET 3 OF 4

Job No.	Sheet No.
01818-05-01	C5.03
Drawn By: KB	
Date: 11/20/2024	

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PARKING AND MARCHING BAND PRACTICE RE-STRIPING NOTES :

1. CONTRACTOR SHALL OBSERVE AND RECORD BAND MARCHING PRACTICE STRIPING AND COLORED MARKINGS PRIOR TO REMOVING FOR SURFACE PREPARATION.
2. PARKING SPACES SHALL BE RE-STRIPED TO MATCH EXISTING COLOR, LAYOUT AND DIMENSIONS UNLESS OTHERWISE NOTED.
3. FOOTBALL FIELD PAINT STRIPING AND COLORED MARKERS SHALL BE RESTORED EXACTLY TO ORIGINAL LAYOUT AND COLOR SCHEME.
4. MARCHING BAND STRIPING SHALL BE STRIPED AS A FOOTBALL FIELD INCLUDING YARD LINE NUMBERS. FOOTBALL FIELD TO MATCH BERRY CENTER AND PRIDGEON STADIUM LAYOUT.

0' 15' 30' 60'
SCALE: 1"=30'

LEGEND

723	PARKING SPACE PAINTED NUMBERS (SEE PARKING STALL PAINTING DETAIL, SHEET ######.
V	VISITOR PARKING PAINTED SPACES (SEE PARKING STALL PAINTING DETAIL, SHEET ######.
REF	REFEREE PARKING PAINTED SPACES (SEE PARKING STALL PAINTING DETAIL, SHEET ######.
PRINCIPAL	PRINCIPAL PARKING PAINTED SPACES (SEE PARKING STALL PAINTING DETAIL, SHEET ######.
POLICE	POLICE PARKING PAINTED SPACES (SEE PARKING STALL PAINTING DETAIL, SHEET ######.
	LIMITS OF FOOTBALL FIELD STRIPING. REFERENCE INSET FOR STRIPING DISTANCES

GENERAL CONSTRUCTION NOTES:

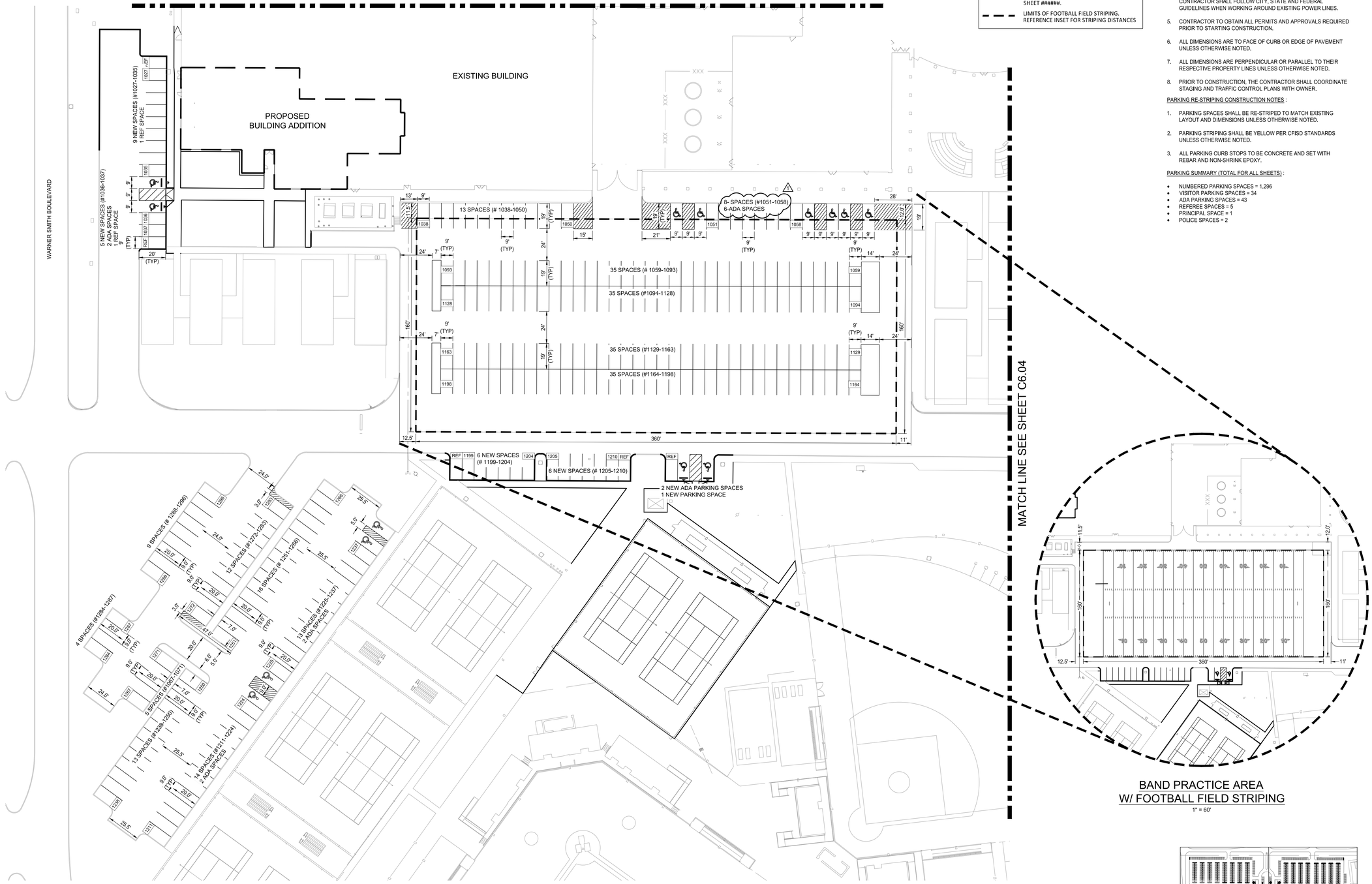
1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.

PARKING RE-STRIPING CONSTRUCTION NOTES :

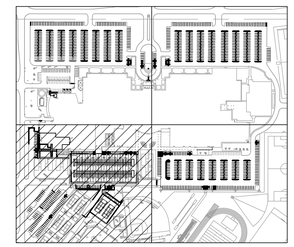
1. PARKING SPACES SHALL BE RE-STRIPED TO MATCH EXISTING LAYOUT AND DIMENSIONS UNLESS OTHERWISE NOTED.
2. PARKING STRIPING SHALL BE YELLOW PER CFISD STANDARDS UNLESS OTHERWISE NOTED.
3. ALL PARKING CURB STOPS TO BE CONCRETE AND SET WITH REBAR AND NON-SHRINK EPOXY.

PARKING SUMMARY (TOTAL FOR ALL SHEETS) :

- NUMBERED PARKING SPACES = 1,296
- VISITOR PARKING SPACES = 34
- ADA PARKING SPACES = 43
- REFEREE SPACES = 5
- PRINCIPAL SPACE = 1
- POLICE SPACES = 2



BAND PRACTICE AREA
W/ FOOTBALL FIELD STRIPING
1" = 60'



Revision / Addendum 2 — **Date** 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS — FRED DALLY — 90904 — LICENSED — PROFESSIONAL ENGINEER
11/20/2024

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PARKING - STRIPING PLAN
SHEET 3 OF 4

Job No. 01818-05-01	Sheet No. C6.03
Drawn By: KS	
Date: 11/20/2024	

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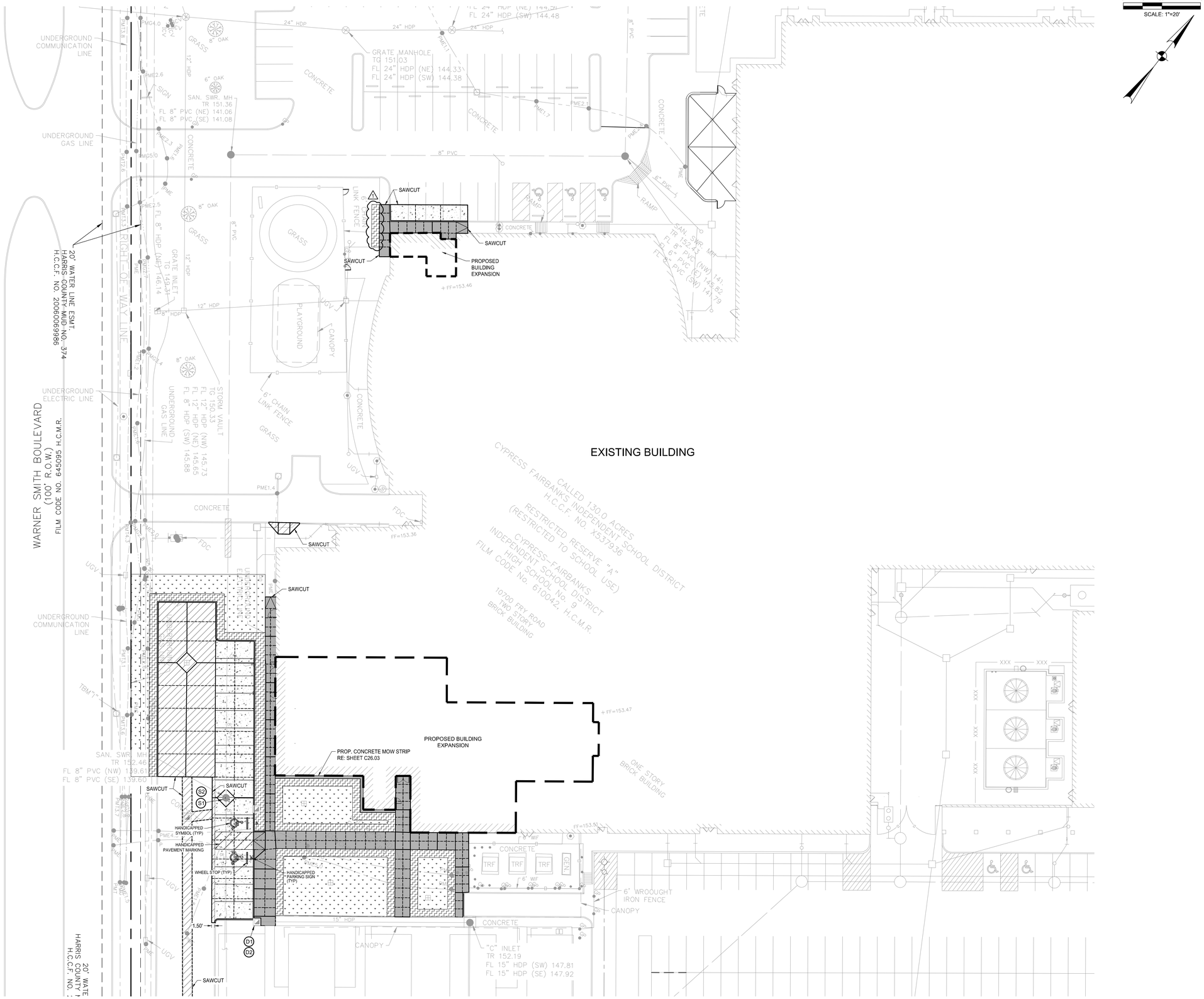

LEGEND

- 5.5" CONCRETE PAVEMENT
- 5.5" CONCRETE SIDEWALK
- 6.5" CONCRETE PAVEMENT
- PROPOSED SAWCUT
- EXPANSION JOINT
- CONTRACTION JOINT
- PROPOSED LIMITS OF SOLID SOD OF 2" TOPSOIL
- PROPOSED LIMITS OF HYDRO-MULCH ON 4" OF TOPSOIL. (CONTRACTOR IS RESPONSIBLE TO IRRIGATE, MOW, FERTILE AND WEED. CONTRACTOR TO ESTABLISH 85% OF GRASS GROWTH BEFORE FINAL ACCEPTANCE).

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
5. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
8. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
10. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
12. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.

SAWCUT NOTES:

1. SAWCUT 2" MINIMUM DEPTH, EXPOSE AND CLEAN EXISTING REINFORCING STEEL.
2. IF NO REINFORCING STEEL EXISTS, #5 HORIZONTAL DOWELS, 24" LONG, GRADE 60, SHALL BE DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING CONCRETE WITH EPOXY.
3. ALL REINFORCING STEEL SHALL BE PLACED 3" CLEAR (2" ABSOLUTE MINIMUM) FROM EDGE OF CONCRETE.

DRAINAGE KEY NOTES:

(D1) CONVERT EXISTING CURB INLET TO JUNCTION BOX.

(D2) ADJUST EXISTING STRUCTURE TO MATCH PROPOSED TOP OF PAVEMENT OR 3" ABOVE FINISHED GRADE.

SANITARY SEWER KEY NOTES:

(S1) CONNECT PROPOSED 6" SANITARY SEWER TO EXISTING SANITARY SEWER MANHOLE WITH EXTERNAL DROP. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT.

(S2) ADJUST EXISTING STRUCTURE TO MATCH PROPOSED TOP OF PAVEMENT OR 3" ABOVE FINISHED GRADE.

Revision / Date
1 ADDENDUM 2 11/20/2024

Project:
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FINE ARTS ADDITION - PAVING PLAN

Job No.	Sheet No.
01815-05-01	C9.00
Drawn By: KB	
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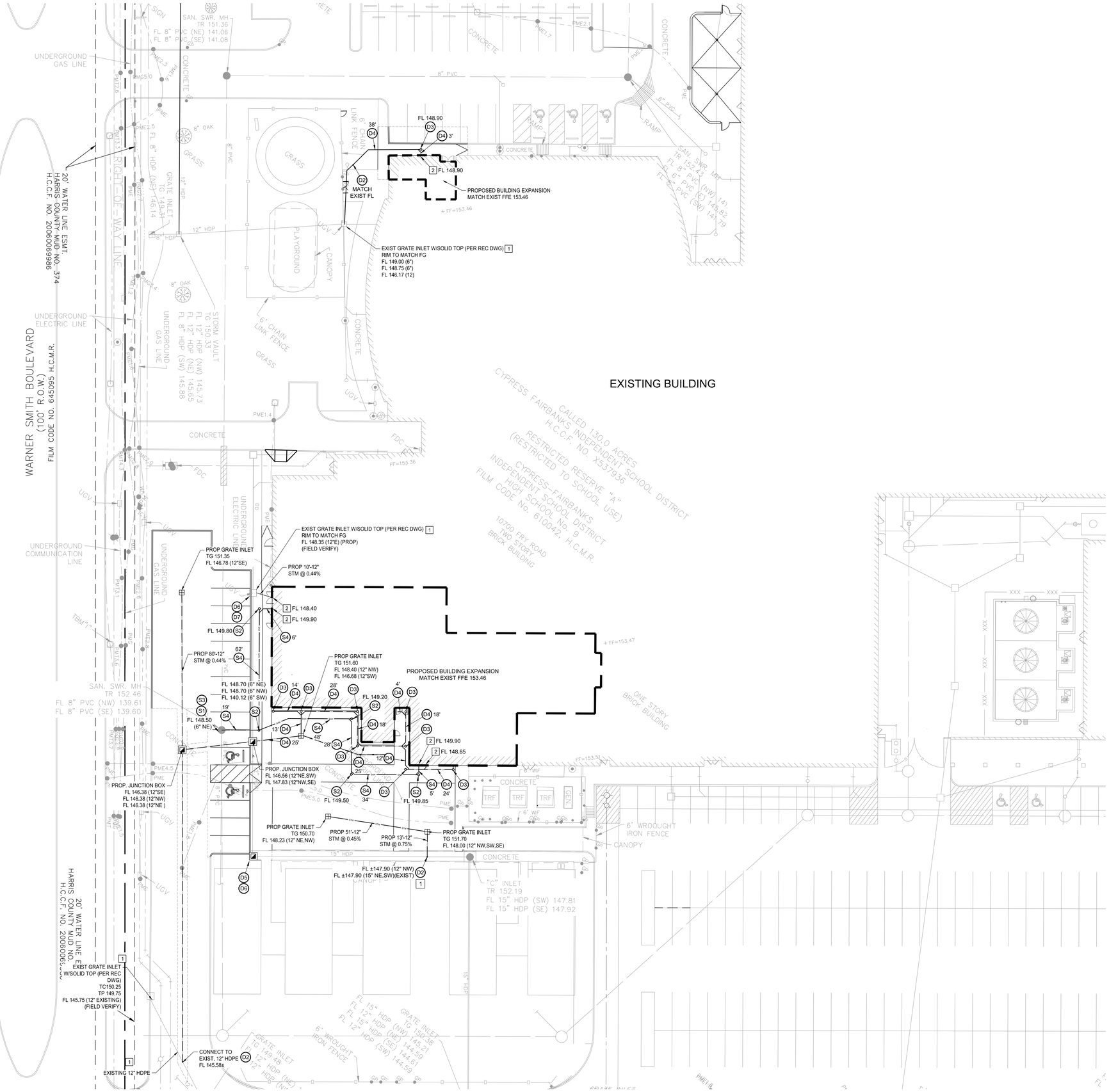

0' 10' 20' 40'
SCALE: 1"=20'

LEGEND

PROPOSED BUILDING LIMITS

GENERAL CONSTRUCTION NOTES :

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4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
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13. WATER MAINS 4 INCHES THRU 12 INCHES IN DIAMETER SHALL BE PVC PIPE C900, DR18 AND HAVE A MINIMUM COVER OF 4 FEET.
14. SANITARY SEWER PIPE SHALL BE SOLID WALL PIPE SCHEDULE 40 PVC OR C900 DR18 AS MANUFACTURED BY J-M MANUFACTURING, CERTAINTEED CORP., DIAMOND PLASTICS CORP., CARLON CO., SDR 26 PER CFISD CONSTRUCTION STANDARDS.
15. ALL STORM AND SANITARY SEWER CLEANOUTS SHALL HAVE TRAFFIC-RATED LIDS. CLEANOUTS LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE 18" DIAMETER X 6" THICK REINFORCED CONCRETE PAD WITH TOP OF PAD MATCHING FINISHED GRADE.
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17. ALL PROPOSED IRRIGATION PIPING AND APPURTENANCES SHALL BE IN ACCORDANCE WITH DISTRICT STANDARDS. COORDINATE FINAL LAYOUT AND CONTROL WITH DISTRICT.

GENERAL UTILITY KEY NOTES:

1. FIELD VERIFY EXIST. UTILITY LOCATION, SIZE AND DEPTH BEFORE CONSTRUCTION.
2. REFER TO MEP PLANS FOR CONTINUATION.

DRAINAGE KEY NOTES:

D1. CONSTRUCT PROPOSED INLET OVER EXISTING STORM SEWER. MATCH EXISTING FLOWLINE. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT.

D2. CONNECT PROPOSED STORM SEWER TO EXISTING STORM SEWER USING WATER-TIGHT MANUFACTURED FITTING.

D3. PROPOSED STORM SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

D4. PROPOSED 12" ROOF DRAIN COLLECTOR AT 0.44% MINIMUM SLOPE. REFER TO ARCH AND MEP PLANS FOR EXACT ROOF DRAIN LOCATIONS.

D5. CONVERT EXISTING CURB INLET TO JUNCTION BOX.

D6. ADJUST EXISTING STRUCTURE TO MATCH PROPOSED TOP OF PAVEMENT OR 3" ABOVE FINISHED GRADE.

D7. CONNECT PROPOSED STORM SEWER TO EXISTING STORM STRUCTURE. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT. MATCH EXISTING FLOWLINE.

SANITARY SEWER KEY NOTES:

S1. CONNECT PROPOSED 6" SANITARY SEWER TO EXISTING SANITARY SEWER MANHOLE WITH EXTERNAL DROP. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT.

S2. PROPOSED SANITARY SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

S3. ADJUST EXISTING STRUCTURE TO MATCH PROPOSED TOP OF PAVEMENT OR 3" ABOVE FINISHED GRADE.

S4. PROPOSED 6" SANITARY SEWER @ 1.00% MINIMUM SLOPE.

IRRIGATION NOTE:

CONTRACTOR TO HIRE A LICENSED IRRIGATOR TO REMOVE, REPLACE, ADJUST, AND/OR MODIFY EXISTING IRRIGATION WATER LINES, IRRIGATION HEADS AND IRRIGATION WIRING IN THE AREA TO ACCOMMODATE THE PROPOSED DEVELOPMENT. CONTRACTOR TO PROVIDE TEMPORARY WATERING WHILE SERVICE IS DISRUPTED.

Revision / Addendum 2 — Date 11/20/2024

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FINE ARTS ADDITION - UTILITY PLAN

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01818-05-01	C11.00
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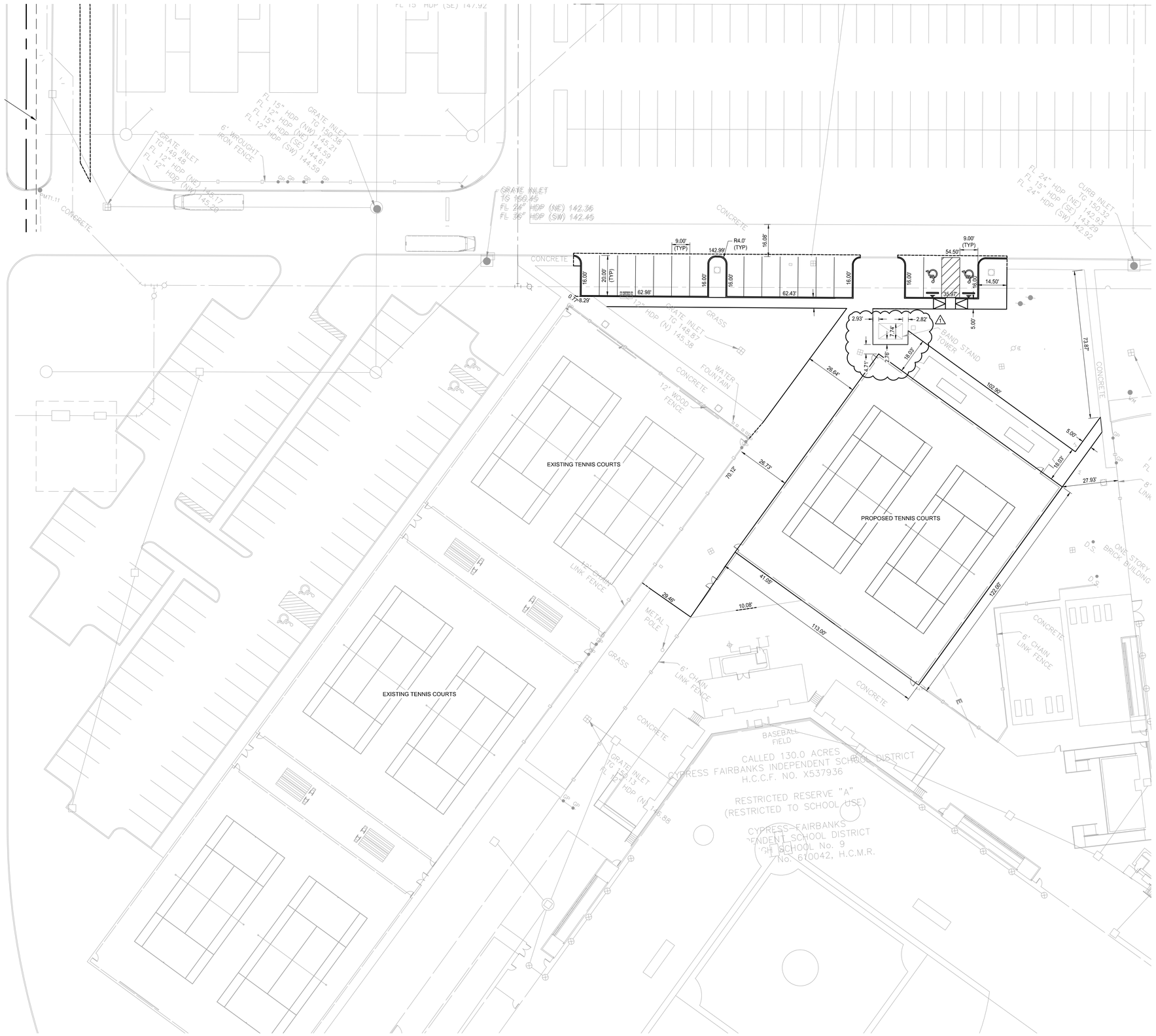

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△ ADDENDUM 2 11/20/2024

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TENNIS COURTS - LAYOUT PLAN

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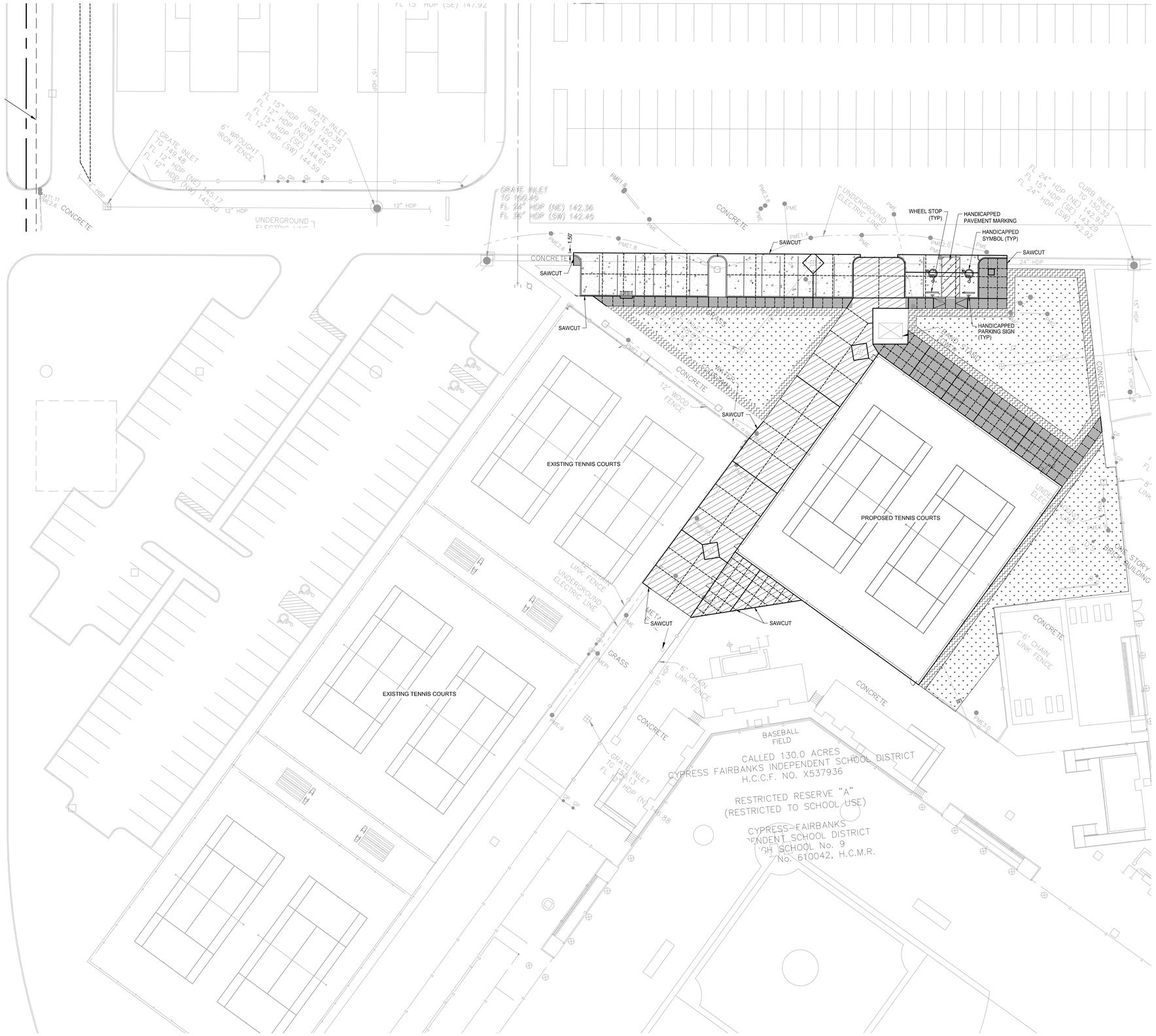

LEGEND

- 5.5" CONCRETE PAVEMENT
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TENNIS COURTS - PAVING PLAN

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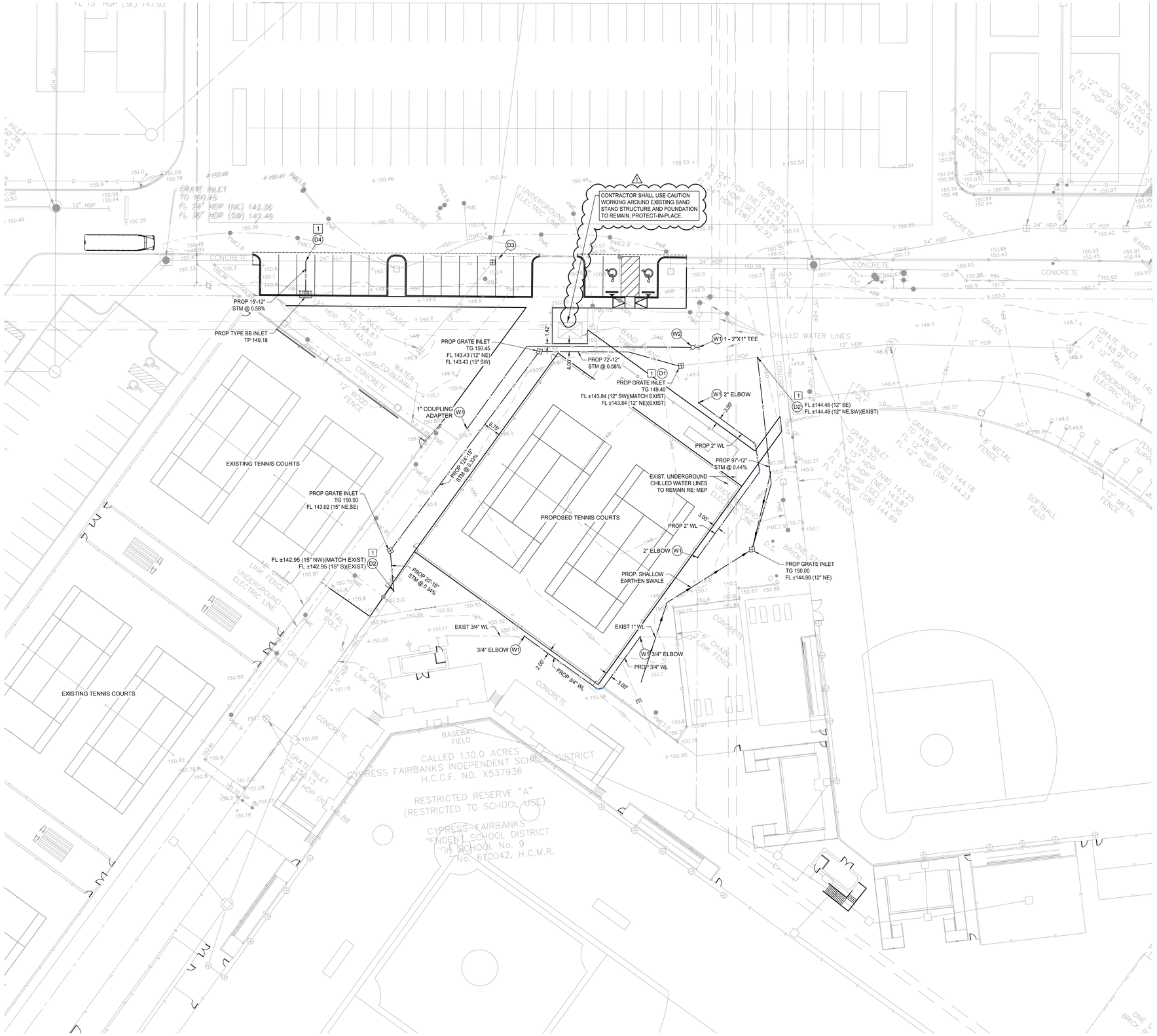

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GENERAL UTILITY KEY NOTES:

1. FIELD VERIFY EXIST. UTILITY LOCATION, SIZE AND DEPTH BEFORE CONSTRUCTION.
2. REFER TO MEP PLANS FOR CONTINUATION.
3. DISTRICT OPERATOR MUST INSPECT ALL UTILITY CONNECTIONS TO EXISTING PUBLIC UTILITIES PRIOR TO BACKFILL.
4. DISTRICT OPERATOR MUST PERFORM ALL CONNECTIONS TO EXISTING PUBLIC WATER INFRASTRUCTURE.

WATER KEY NOTES:

- W1 CONNECT PROPOSED WATER LINE TO EXISTING WATER LINE WITH MANUFACTURED FITTING.
- W2 PROPOSED 1" ISOLATION VALVE.

DRAINAGE KEY NOTES:

- D1 CONSTRUCT PROPOSED INLET OVER EXISTING STORM SEWER. MATCH EXISTING FLOWLINE. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT.
- D2 CONNECT PROPOSED 12" STORM SEWER TO EXISTING 12" STORM SEWER USING WATER-TIGHT MANUFACTURED FITTING.
- D3 CONVERT EXISTING CURB INLET TO GRATE INLET. ADJUST TOP OF GRATE TO MATCH PROPOSED TOP OF PAVEMENT.
- D4 CONNECT PROPOSED 12" STORM SEWER TO EXISTING 24" STORM SEWER USING WATER-TIGHT MANUFACTURED FITTING.

IRRIGATION NOTE:

CONTRACTOR TO HIRE A LICENSED IRRIGATOR TO REMOVE, REPLACE, ADJUST, AND/OR MODIFY EXISTING IRRIGATION WATER LINES, IRRIGATION HEADS AND IRRIGATION WIRING IN THE AREA TO ACCOMMODATE THE PROPOSED DEVELOPMENT. CONTRACTOR TO PROVIDE TEMPORARY WATERING WHILE SERVICE IS DISRUPTED.

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TENNIS COURTS - UTILITY PLAN

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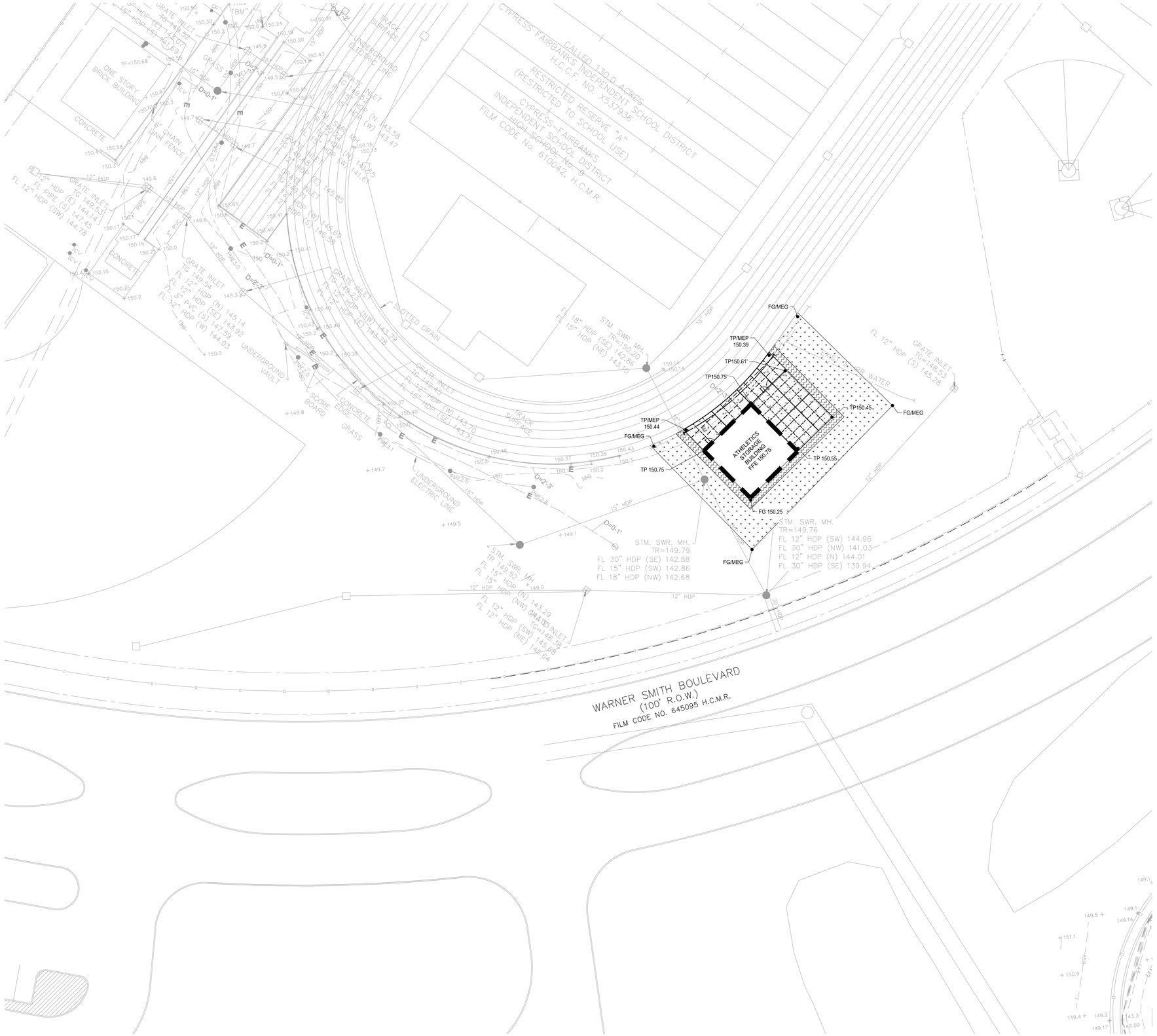

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SCALE: 1"=20'

LEGEND

	5.5" CONCRETE PAVMENT
EL	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GROUND
FL	FLOW LINE
MEC	MATCH EXISTING CURB
MEG	MATCH EXISTING GRADE
MEP	MATCH EXISTING PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TW	TOP OF WALL
	EXISTING CONTOUR
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	PROPOSED LIMITS OF HYDRO-MULCH ON 4" OF TOPSOIL. (CONTRACTOR IS RESPONSIBLE TO IRRIGATE, MOW, FERTILE AND WEED. CONTRACTOR TO ESTABLISH 85% OF GRASS GROWTH BEFORE FINAL ACCEPTANCE).

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
5. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
8. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
10. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
12. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.

DRAINAGE KEY NOTES:

(D1) PROPOSED DOWNSPOUT. CONTRACTOR TO REFER TO ARCHITECHTURAL PLANS FOR DOWNSPOUT BOOT DETAILS AND CONNECTION TO UNDERGROUND STORM SEWER.

(D2) CONTRACTOR TO CONSTRUCT PROPOSED GRATE INLET ON EXISTING 24" STORM SEWER WITH WATER TIGHT CONNECTIONS.

IRRIGATION NOTE:

CONTRACTOR TO HIRE A LICENSED IRRIGATOR TO REMOVE, REPLACE, ADJUST, AND/OR MODIFY EXISTING IRRIGATION WATER LINES, IRRIGATION HEADS AND IRRIGATION WIRING IN THE AREA TO ACCOMMODATE THE PROPOSED DEVELOPMENT. CONTRACTOR TO PROVIDE TEMPORARY WATERING WHILE SERVICE IS DISRUPTED.

Revision / Date
1 ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
11/20/2024

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ATHLETICS STORAGE BUILDING - PAVING AND GRADING PLAN

Job No. 01815-05-01	Sheet No. C21.00
Drawn By: KB	
Date: 11/20/2024	

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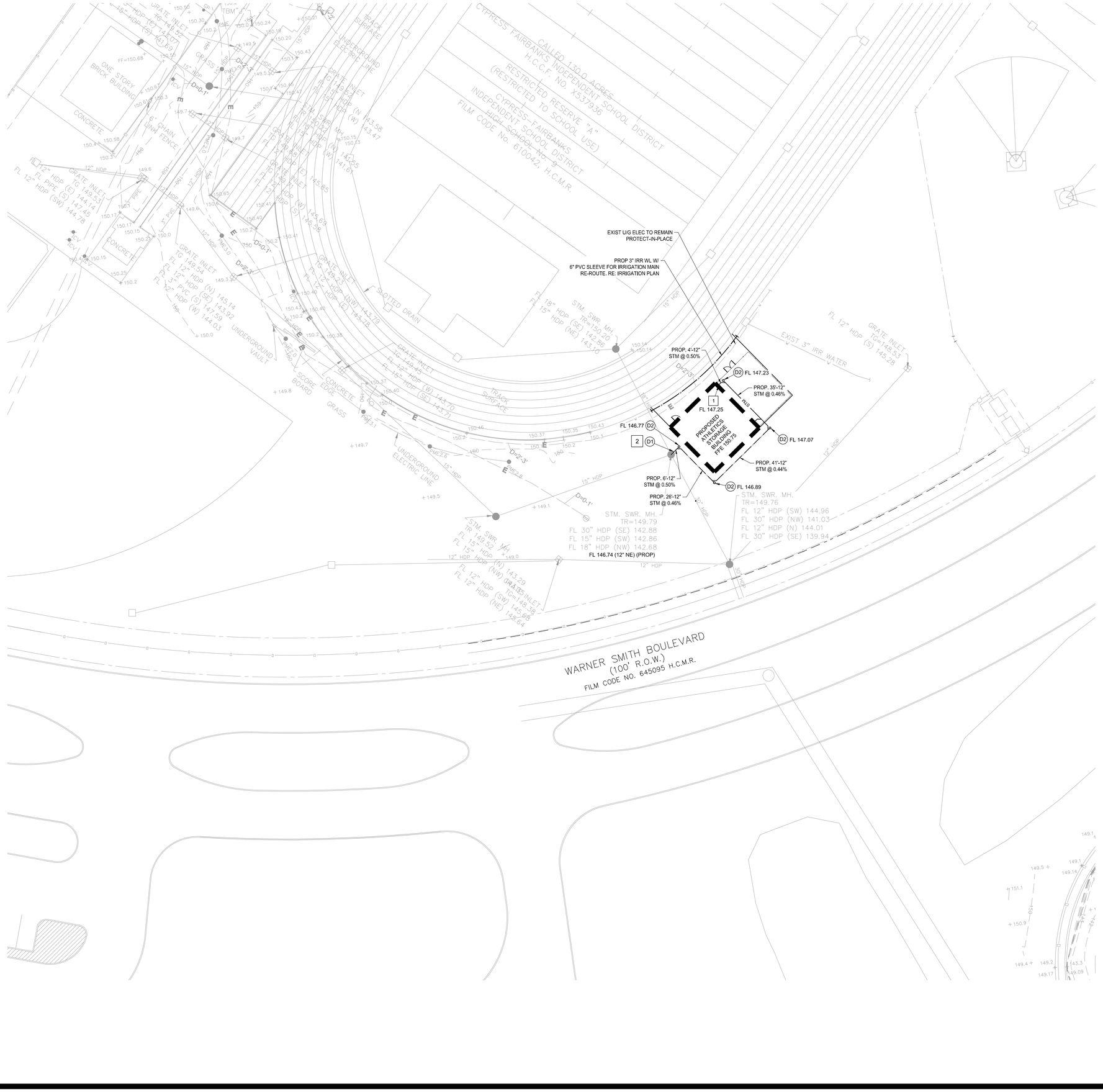

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. IF DISCREPANCIES OR CONFLICTS ARISE, CONTRACTOR TO NOTIFY ENGINEER. (1)
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
14. ALL STORM AND SANITARY CLEANOUTS SHALL HAVE TRAFFIC-RATED LIDS. CLEANOUTS LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE 18" DIAMETER X 5.5" THICK REINFORCED CONCRETE PAD WITH TOP OF PAD MATCHING FINISHED GRADE.
15. ALL STORM SEWER PIPE SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE NOTED.
16. ALL PROPOSED IRRIGATION PIPING AND APPURTENANCES SHALL BE IN ACCORDANCE WITH DISTRICT STANDARDS. COORDINATE FINAL LAYOUT AND CONTROL WITH DISTRICT.

IRRIGATION NOTE:

CONTRACTOR TO HIRE A LICENSED IRRIGATOR TO REMOVE, REPLACE, ADJUST, AND/OR MODIFY EXISTING IRRIGATION WATER LINES, IRRIGATION HEADS AND IRRIGATION WIRING IN THE AREA TO ACCOMMODATE THE PROPOSED DEVELOPMENT. CONTRACTOR TO PROVIDE TEMPORARY WATERING WHILE SERVICE IS DISRUPTED.

DRAINAGE KEY NOTES:

(D1) CONNECT PROPOSED STORM SEWER TO EXISTING STORM STRUCTURE. SEAL WALL PENETRATIONS USING WATER STOP AND NON-SHRINK GROUT. MATCH EXISTING FLOWLINE.

(D2) PROPOSED STORM SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

(D3) PROPOSED DOWNSPOUT. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT BOOT DETAILS AND CONNECTION TO UNDERGROUND STORM SEWER.

GENERAL UTILITY KEY NOTES:

1 REFER TO MEP PLANS FOR CONTINUATION.

2 FIELD VERIFY EXISTING UTILITY LOCATION, SIZE AND DEPTH BEFORE CONSTRUCTION.

Revision / Date
1 ADDENDUM 2 11/20/2024

Project:
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FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

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ATHLETICS STORAGE BUILDING - UTILITY PLAN

Job No.	Sheet No.
01818-05-01	C22.00
Drawn By: KB	
Date: 11/20/2024	

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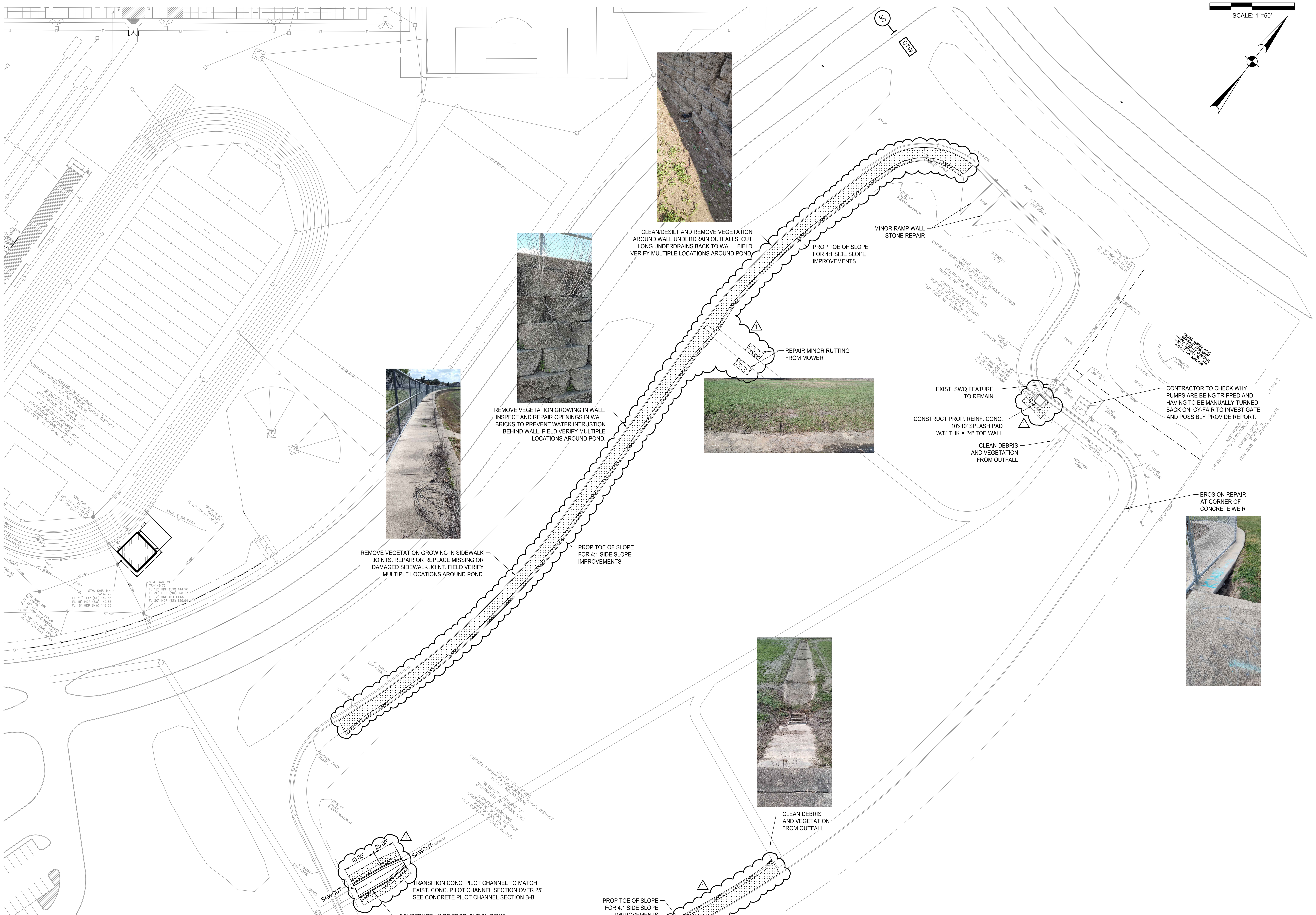


LEGEND

- IPB — INLET PROTECTION BARRIER
- FF — FILTER FABRIC FENCE
- SC — STABILIZED CONSTRUCTION ACCESS
- CTW — CONCRETE TRUCK WASHOUT
- PROPOSED LIMITS OF SOLID SOD OF 2" TOPSOIL
- PROPOSED LIMITS OF FLEXTERRA OVER 6" OF TOPSOIL. (INSTALLED PER MANUFACTURER'S RECOMMENDATIONS)

DETENTION POND CONSTRUCTION NOTES :

1. REMOVE ALL VEGETATION GROWING IN SIDEWALK JOINTS.
2. REPLACE ALL DAMAGED OR MISSING SIDEWALK JOINTS.
3. CAREFULLY REMOVE ALL VEGETATION GROWING IN WALL.
4. CLEAN, DESILT AND REMOVE VEGETATION AROUND ALL WALL UNDERDRAIN OUTFALLS.
5. CUT LONG WALL UNDERDRAINS TO END 3 INCHES FROM FACE OF WALL.

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. IF DISCREPANCIES OR CONFLICTS ARISE, CONTRACTOR TO NOTIFY ENGINEER.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
7. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.

DEMOLITION CONSTRUCTION NOTES:

1. ALL SITE FEATURES NOT IDENTIFIED TO BE IMPROVED ARE TO REMAIN AND SHALL BE PROTECTED-IN-PLACE.
2. CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
3. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS OFFSITE.
5. CONTRACTOR TO FOLLOW ALL RECOMMENDED SAFETY AND DISPOSAL PROCEDURES INCLUDING BUT NOT LIMITED TO EPA, TCEQ & OSHA.
6. BACKFILL ALL VOIDS FROM REMOVED ITEMS WITH STRUCTURAL FILL MATERIAL PLACED AND COMPACTED PER GEOTECHNICAL REPORT.
7. WHEN EXISTING SIDEWALK IS CLOSED FOR CONSTRUCTION, CONTRACTOR SHALL BARRICADE THAT AREA AND PROVIDE SAFE ALTERNATE PATH FOR PEDESTRIANS WITH PROPER SIGNAGE.
8. ALL TRAFFIC SIGNAGE WITHIN THE ROW SHALL BE PROTECTED IN PLACE AT ALL TIMES. ANY DAMAGE TO THESE DEVICES SHALL BE REPAIRED IMMEDIATELY.
9. THE CONTRACTOR SHALL ENTER AND EXIT THE SITE THROUGH EXISTING DRIVEWAY.

SAWCUT NOTES:

1. SAWCUT 2" MINIMUM DEPTH, EXPOSE AND CLEAN EXISTING REINFORCING STEEL.
2. IF NO REINFORCING STEEL EXISTS, #5 HORIZONTAL DOWELS, 24" LONG, GRADE 60, SHALL BE DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING CONCRETE WITH EPOXY.
3. ALL REINFORCING STEEL SHALL BE PLACED 3" CLEAR (2" ABSOLUTE MINIMUM) FROM EDGE OF CONCRETE.

SWPPP CONSTRUCTION NOTES :

1. ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.
2. APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
3. ALL EROSION CONTROL MEASURES SHALL BE CLEANED AFTER EVERY RAIN.

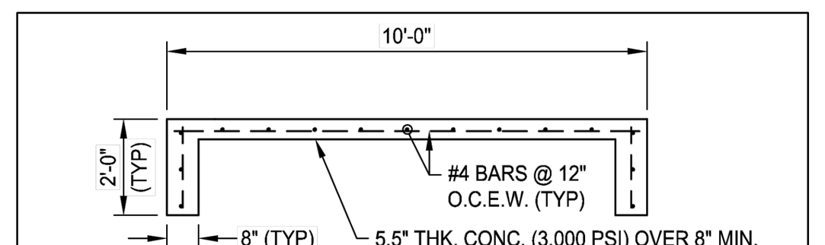
DETENTION SUMMARY

	TOTAL DRAINAGE AREA	131	ACRES
*	EXISTING IMPERVIOUS COVER	44,681.94	SQ-FT
*	PROPOSED IMPERVIOUS COVER	51,021.95	SQ-FT
	INCREASED IMPERVIOUS COVER	6,340.01	SQ-FT
	REQUIRED RATE	0.75	
	REQUIRED DETENTION VOLUME	0.109	AC-FT
	PROVIDED DETENTION VOLUME	0.125	AC-FT
	SURPLUS DETENTION VOLUME	0.016	AC-FT

* IMPERVIOUS AREA CALCULATIONS LOCALIZED TO PROPOSED IMPROVEMENT AREAS

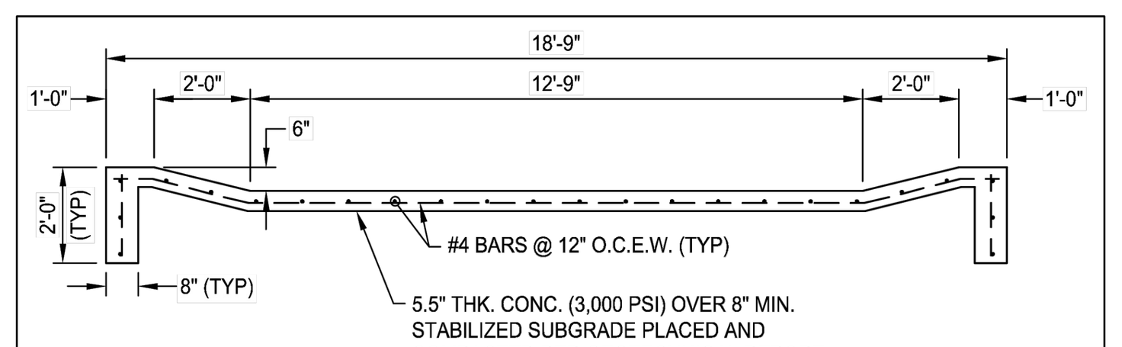
DETENTION CALCULATIONS FOR PROPOSED SIDE SLOPE IMPROVEMENTS FROM 5H:1V TO 4H:1V

4.453	SF END AREA FROM SS IMPROVEMENT
1,068	LF SS IMPROVEMENT REQUIRED
1,220	LF PROPOSED SS IMPROVEMENT
5,432.66	CU-FT PROPOSED DETN VOLUME



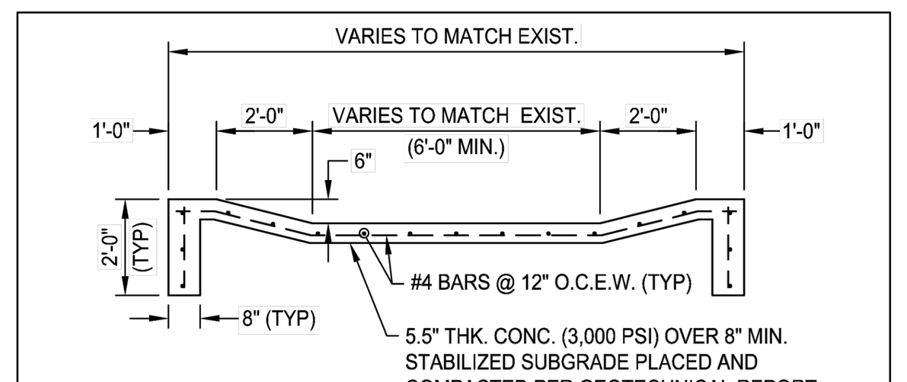
CONCRETE SPLASH PAD TYPICAL SECTION

N.T.S.



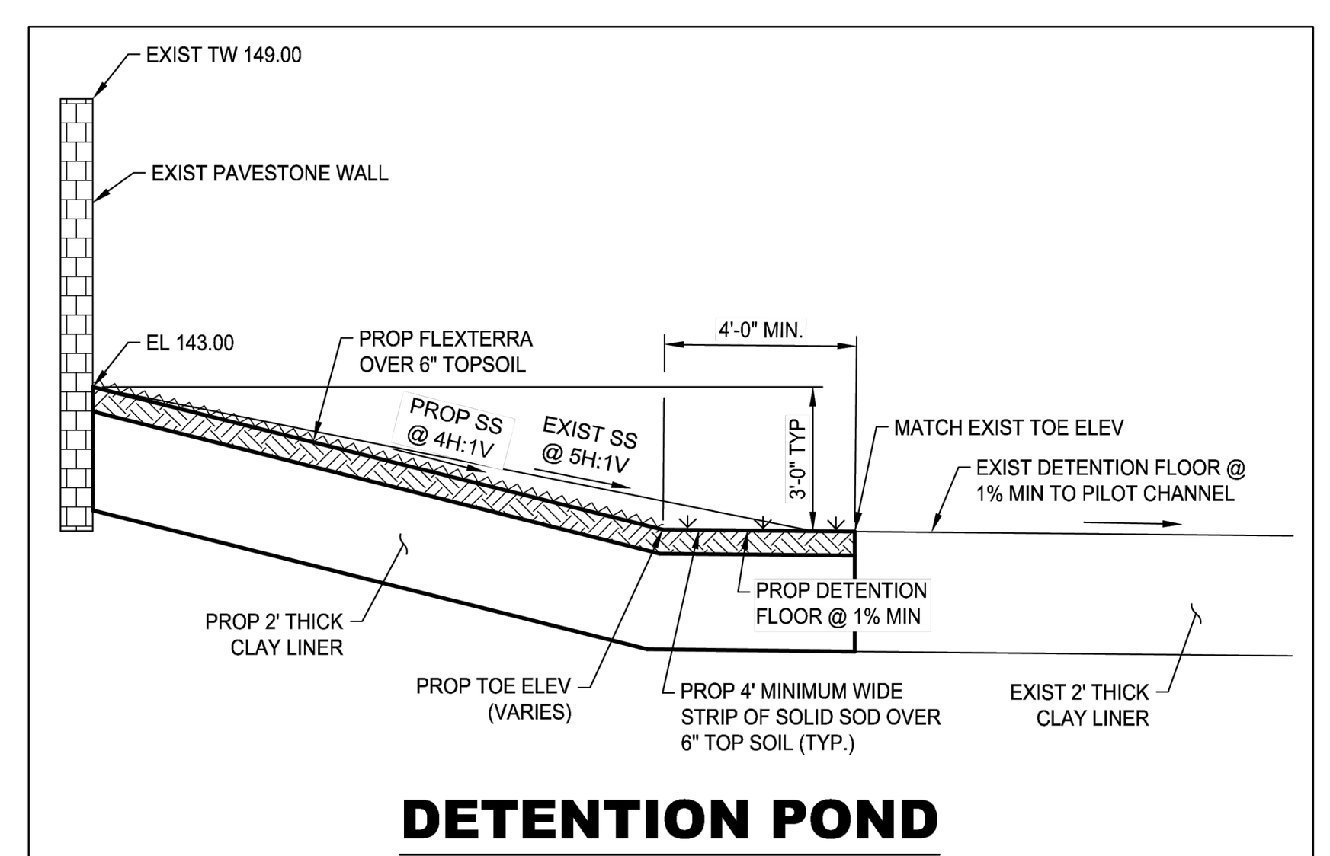
CONCRETE PILOT CHANNEL SECTION A-A

N.T.S.



CONCRETE PILOT CHANNEL SECTION B-B

N.T.S.



DETENTION POND SIDE SLOPE IMPROVEMENTS

N.T.S.

Revision / ⚠1 ADDENDUM 2 — Date 11/20/2024

Project: 2024 CY RANCH HS ADDITIONS & RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS — FRED DALLY — 90904 — LICENSED PROFESSIONAL ENGINEER — 11/20/2024

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DETENTION POND - LAYOUT PLAN

Job No. 01818-05-01
Drawn By: KB
Date: 11/20/2024
Sheet No. C24.00

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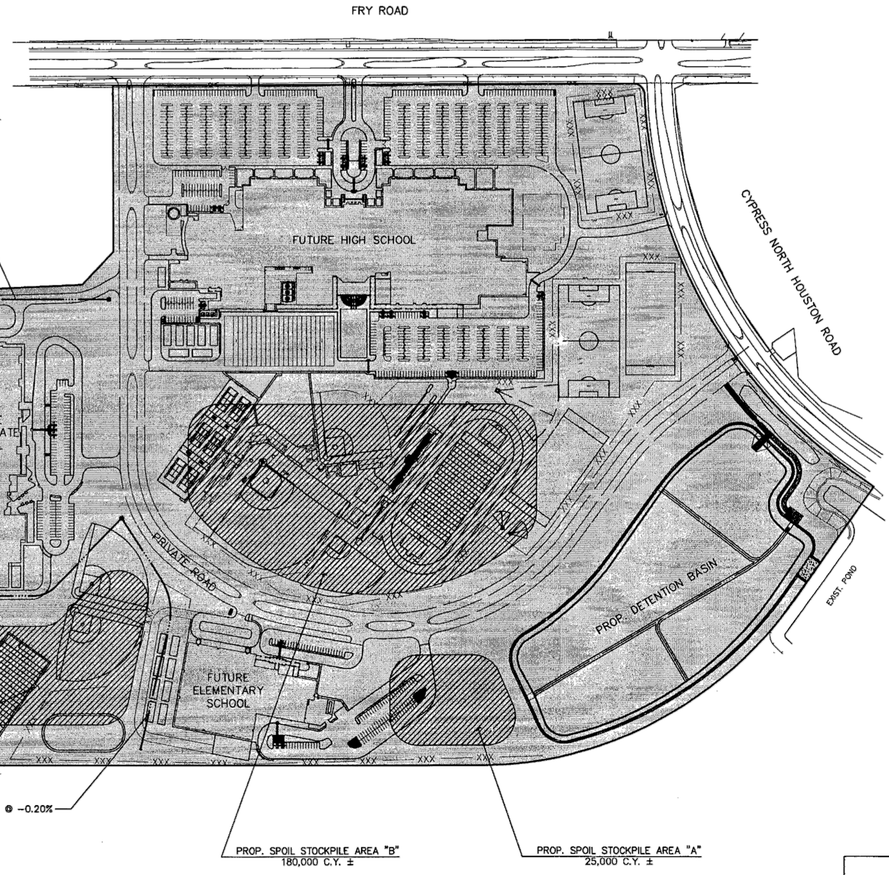

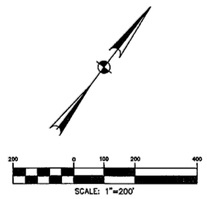

LEGEND

DETENTION BASIN SERVICE AREA

ACCORDING TO F.I.R.M. MAP NO.'S 48201C0405J & 48201D415J (COMMUNITY-PANEL NO.'S 480287040SJ & 480287D415J), MAP REVISED DATE: NOVEMBER 6, 1996. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.

ACCORDING TO TSARP F.I.R.M. MAP NO.'S 48201C0405L & 48201D415L (COMMUNITY-PANEL NO.'S 480287040SL & 480287D415L), PRELIMINARY DATE: SEPTEMBER 30, 2004. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110155- AS PUBLISHED BY THE HARRIS COUNTY PUBLIC INFRASTRUCTURE WEBSITE: BRASS DISK STAMPED 110155 ON BRIDGE AT FRY RD. AND CYPRESS CREEK LOCATED ON CONCRETE WALK, ON SOUTHWEST CORNER OF SOUTHBOUND BRIDGE, SOUTH OF STREAM CENTERLINE IN KEY MAP 369M IN THE CYPRESS WATERSHED NEAR STREAM K100-00-00.
ELEV.=150.20 (NAVD 1988, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED AT THE SOUTHEAST CORNER OF FRY RD. AND CYPRESS NORTH HOUSTON.
ELEV.=151.35

TBM "B"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD. ±450' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.34

TBM "C"- BOX CUT ON CONCRETE HEADWALL LOCATED IN THE EAST R.O.W. OF FRY RD. ±1010' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.41

TBM "D"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD.±1580' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON AND ±220' NORTH OF THE MOST WESTERLY SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV.=151.11

TBM "F"- BOX CUT ON "BB" INLET LOCATED IN THE SOUTH R.O.W. OF CYPRESS NORTH HOUSTON ±1180' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=149.13

TBM "G"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTH R.O.W. OF CYPRESS NORTH HOUSTON ±590' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=150.87

Table 1: Detention Summary Table			
Project Name: Drainage Impact Analysis for Cy-Fair ISD High School #9			
Detention Basin Drainage Area	131 acres		
Detention Storage Required - (1% AEP Runoff Volume)	113.0 acre-feet		
Detention Storage Provided	122.7 acre-feet		
	10% (10-Yr)	4% (25-Yr)	1% (100-Yr)
Detention Basin Water Surface Elevation (ft) (NAVD88 Datum, 2001 Adjustment)	143.6	145.2	148.2
Maximum Allowable Outflow (cfs)	23	23	23
Maximum Outflow Provided (cfs)	23	23	23

PRIVATE UTILITY LINES SHOWN

CENTERPOINT ENERGY/ELECTRIC FACILITIES Date: 2/14/06
(Approval only for underground ductlines, unless otherwise noted.)
Valid at time of review only.

SBC Date: 2/14/06
Approved for underground conduit facilities only.
Signature for one year.

CENTERPOINT ENERGY/GAS FACILITIES Date: 2/14/06
Gas service lines are not shown.

NO.	DATE	REVISIONS	BY

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING

21020 PARK ROW
KATY, TX. 77449

PHONE: (281) 578-9595
FAX: (281) 578-9686

W. JOEL SEYBERT
92999
LICENSED
PROFESSIONAL ENGINEER
1/12/06

CYPRESS-FAIRBANKS I.S.D.
DETENTION BASIN AND
STORM WATER PUMP STATION
TO SERVE 130 ACRE TRACT

SITE PLAN

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	WASTEWATER	TRAFFIC
ST. & BRIDGE	STORMWATER	SWQ

FILE NO.	
GFS NO.	
DRAWING SCALE	
HORZ: 1"=200' VERT:	
CITY OF HOUSTON PM	
-	
DATE	SHEET NO.
December 2005	4 OF 22

Revision /	Date
1 ADDENDUM 2	11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
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DETENTION POND
SERVICE AREA
(FOR REFERENCE ONLY)

Job No.	Sheet No.
01818-05-01	C24.01
Drawn By: KB	
Date: 11/20/2024	

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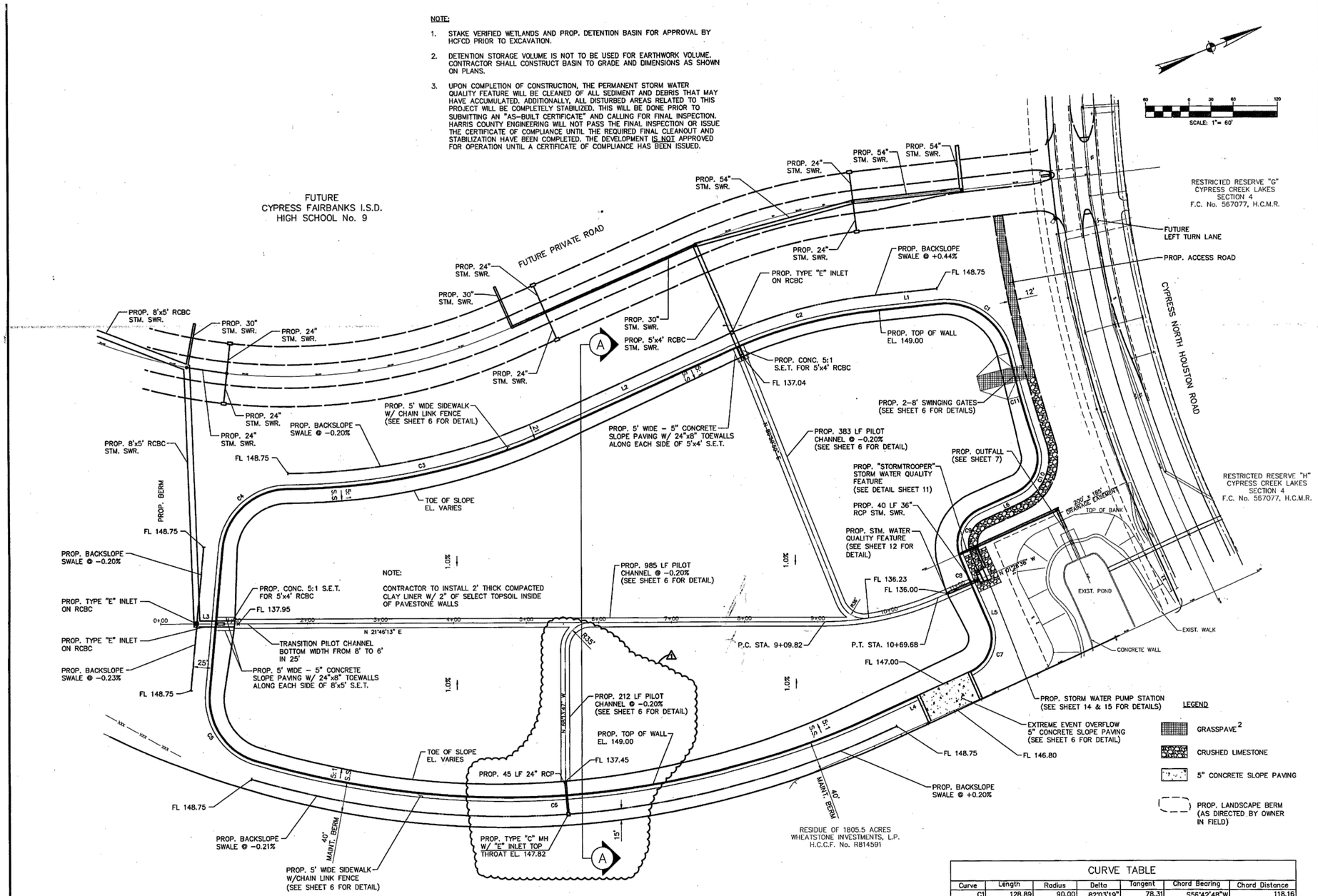
NOTE:

1. STAKE VERIFIED WETLANDS AND PROP. DETENTION BASIN FOR APPROVAL BY HCFCD PRIOR TO EXCAVATION.
2. DETENTION STORAGE VOLUME IS NOT TO BE USED FOR EARTHWORK VOLUME. CONTRACTOR SHALL CONSTRUCT BASIN TO GRADE AND DIMENSIONS AS SHOWN ON PLANS.
3. UPON COMPLETION OF CONSTRUCTION, THE PERMANENT STORM WATER QUALITY FEATURE WILL BE CLEANED OF ALL SEDIMENT AND DEBRIS THAT MAY HAVE ACCUMULATED. ADDITIONALLY, ALL DISTURBED AREAS RELATED TO THIS PROJECT WILL BE COMPLETELY STABILIZED. THIS WILL BE DONE PRIOR TO SUBMITTING AN "AS-BUILT CERTIFICATE" AND CALLING FOR FINAL INSPECTION. HARRIS COUNTY ENGINEERING WILL NOT PASS THE FINAL INSPECTION OR ISSUE THE CERTIFICATE OF COMPLIANCE UNTIL THE REQUIRED FINAL CLEANOUT AND STABILIZATION HAVE BEEN COMPLETED. THE DEVELOPMENT IS NOT APPROVED FOR OPERATION UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN ISSUED.



LINE TABLE		
LINE	LENGTH	BEARING
L1	88.63	S15°41'09"W
L2	271.94	S01°59'40"E
L3	194.52	S62°57'21"E
L4	152.22	N02°27'31"W
L5	20.61	S87°18'41"W
L6	56.94	N02°27'31"W

CURVE TABLE						
Curve	Length	Radius	Delta	Tangent	Chord Bearing	Chord Distance
C1	128.89	90.00	82°03'19"	78.31	S56°42'48"W	118.16
C2	200.10	634.69	18°03'51"	100.89	S08°50'29"W	199.28
C3	374.43	900.50	23°49'26"	189.96	N09°55'03"E	371.74
C4	133.18	90.00	84°47'07"	82.16	S20°33'47"E	121.36
C5	123.59	90.00	78°40'55"	73.77	N77°42'12"E	114.11
C6	860.92	1208.37	40°49'15"	449.64	N17°57'07"E	842.82
C7	78.74	50.00	90°13'48"	50.20	N47°34'25"W	70.85
C8	76.11	1800.00	2°25'22"	38.06	N88°31'22"E	76.11
C9	76.63	50.00	87°48'26"	48.12	S46°21'44"E	69.34
C10	73.62	50.00	84°21'51"	45.31	N44°38'27"W	67.15
C11	131.43	1649.97	4°33'50"	65.75	S84°32'27"E	131.39

ACCORDING TO F.I.R.M. MAP NO.'S 48201C0405L & 48201C0415L (COMMUNITY-PANEL NO.'S 480287040G & 480287041SJ, MAP REVISED DATE: NOVEMBER 6, 1996, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.

ACCORDING TO TSARP F.I.R.M. MAP NO.'S 48201C0405L & 48201C0415L (COMMUNITY-PANEL NO.'S 480287040SL & 480287041SL), PRELIMINARY DATE: SEPTEMBER 30, 2004, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110155- AS PUBLISHED BY THE HARRIS COUNTY PUBLIC INFRASTRUCTURE WEBSITE, BRASS DISK STAMPED 110155 ON BRIDGE AT FRY RD. AND CYPRESS CREEK LOCATED ON CONCRETE WALK, ON SOUTHWEST CORNER OF SOUTHBOUND BRIDGE, SOUTH OF STREAM CENTERLINE IN KEY MAP 369M IN THE CYPRESS WATERSHED NEAR STREAM K100-00-00.
ELEV.=150.20 (NAVD 1988, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED AT THE SOUTHEAST CORNER OF FRY RD. AND CYPRESS NORTH HOUSTON.
ELEV.=151.35

TBM "B"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD. ±450' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.34

TBM "C"- BOX CUT ON CONCRETE HEADWALL LOCATED IN THE EAST R.O.W. OF FRY RD. ±1010' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.41

TBM "D"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD.±1502' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON AND ±220' NORTH OF THE MOST WESTERLY SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV.=151.11

TBM "F"- BOX CUT ON "BB" INLET LOCATED IN THE SOUTH R.O.W. OF CYPRESS NORTH HOUSTON ±1180' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=149.13

TBM "G"- COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTH R.O.W. OF CYPRESS NORTH HOUSTON ±590' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=150.87

PRIVATE UTILITY LINES SHOWN

CENTERPOINT ENERGY/ELECTRIC FACILITIES Date: 2/14/06
(Approved only for underground ductlines, unless otherwise noted.)
Valid at time of review only.
Diana C. Ward Date: 2/14/06
SBC
Approved for underground conduit facilities only.
Signature valid for one year.
CENTERPOINT ENERGY/GAS FACILITIES Date: 2/14/06
Gas service lines are not shown.

NO.	DATE	REVISIONS	BY

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 578-9595
FAX: (281) 578-9686

STATE OF TEXAS
W. JOEL SEYBERT
92999
LICENSED
PROFESSIONAL ENGINEER
11/19/24

CYPRESS-FAIRBANKS I.S.D.
DETENTION BASIN AND
STORM WATER PUMP STATION
TO SERVE 130 ACRE TRACT

DETENTION BASIN
LAYOUT

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	WASTEWATER	TRAFFIC
ST. & BRIDGE	STORMWATER	SWQ

FILE NO.
GFS NO.
DRAWING SCALE
HORZ: 1"=60' VERT:
CITY OF HOUSTON PM
-
DATE: December 2005 SHEET NO.: 5 OF 22

Revision / Addendum 2 — Date 11/20/2024

Project: 2024 CY RANCH HS ADDITIONS & RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
11/20/2024

Huckabee
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HOUSTON • SAN ANTONIO • WACO
www.huckabee-inc.com
800.687.0229

DETENTION BASIN LAYOUT (FOR REFERENCE ONLY)

Job No. 01818-05-01
Drawn By: KB
Date: 11/20/2024
Sheet No. C24.02

6/18/2024 3:46:48 PM

P:\2024 - Daily > Associates - Civil\C24-01-540 Cypress Ranch HS\EMAILS\Received\2024-06-18 ACC model download\01818-06-01 Cy Ranch HS Renovation_ARCH_v23 - DA.rvt

08 Feb 2006 8:51AM brianc
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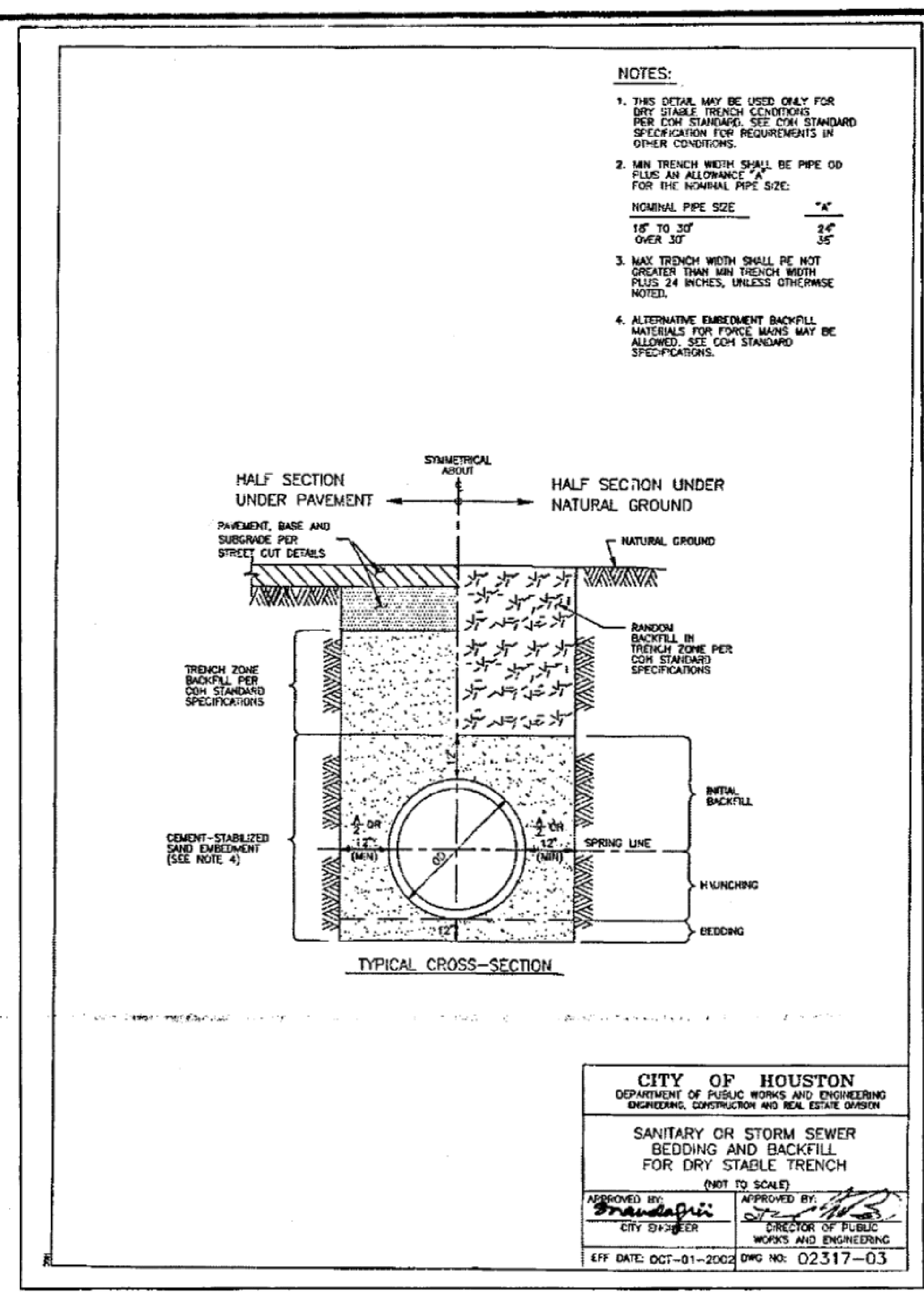
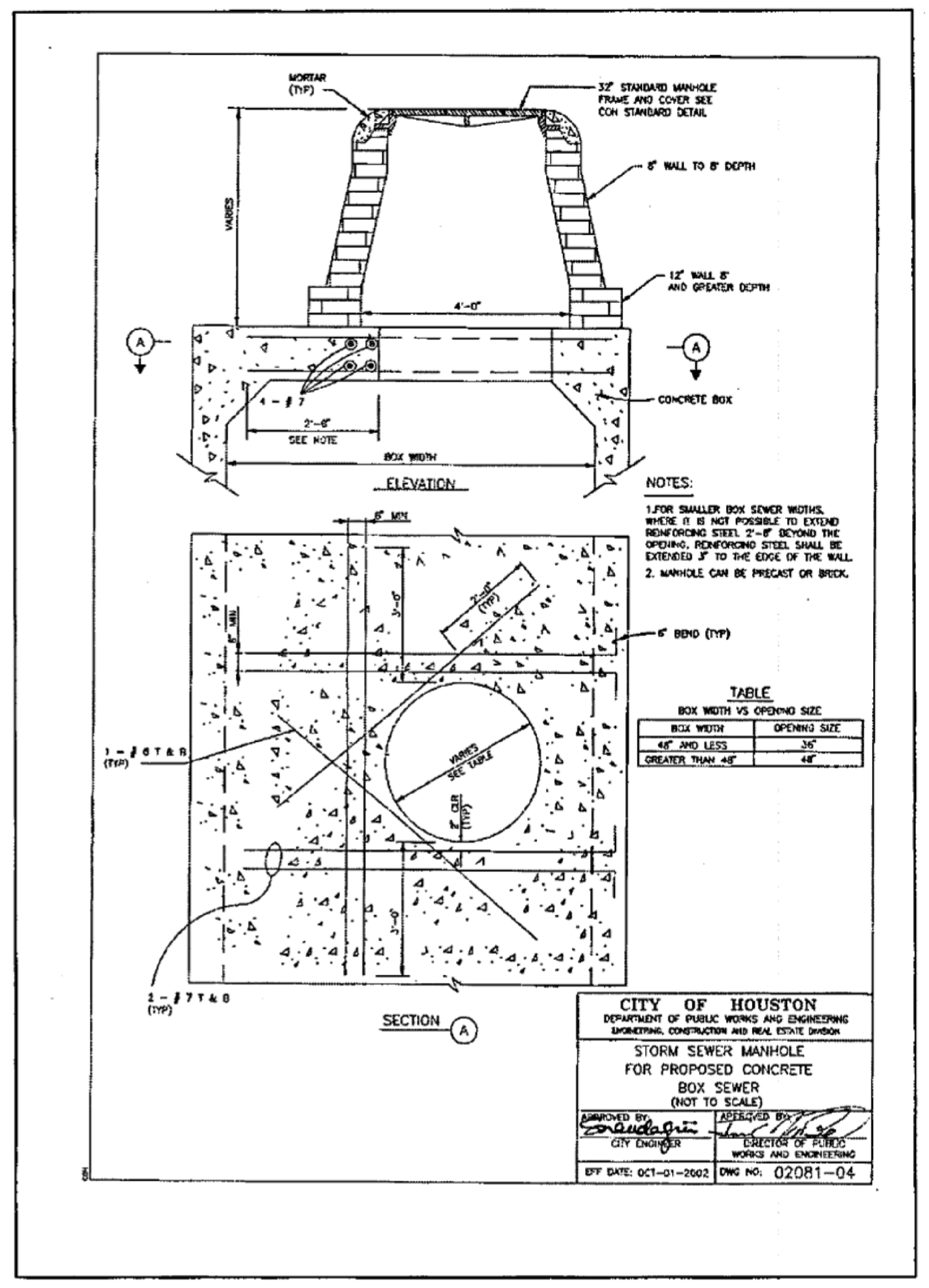
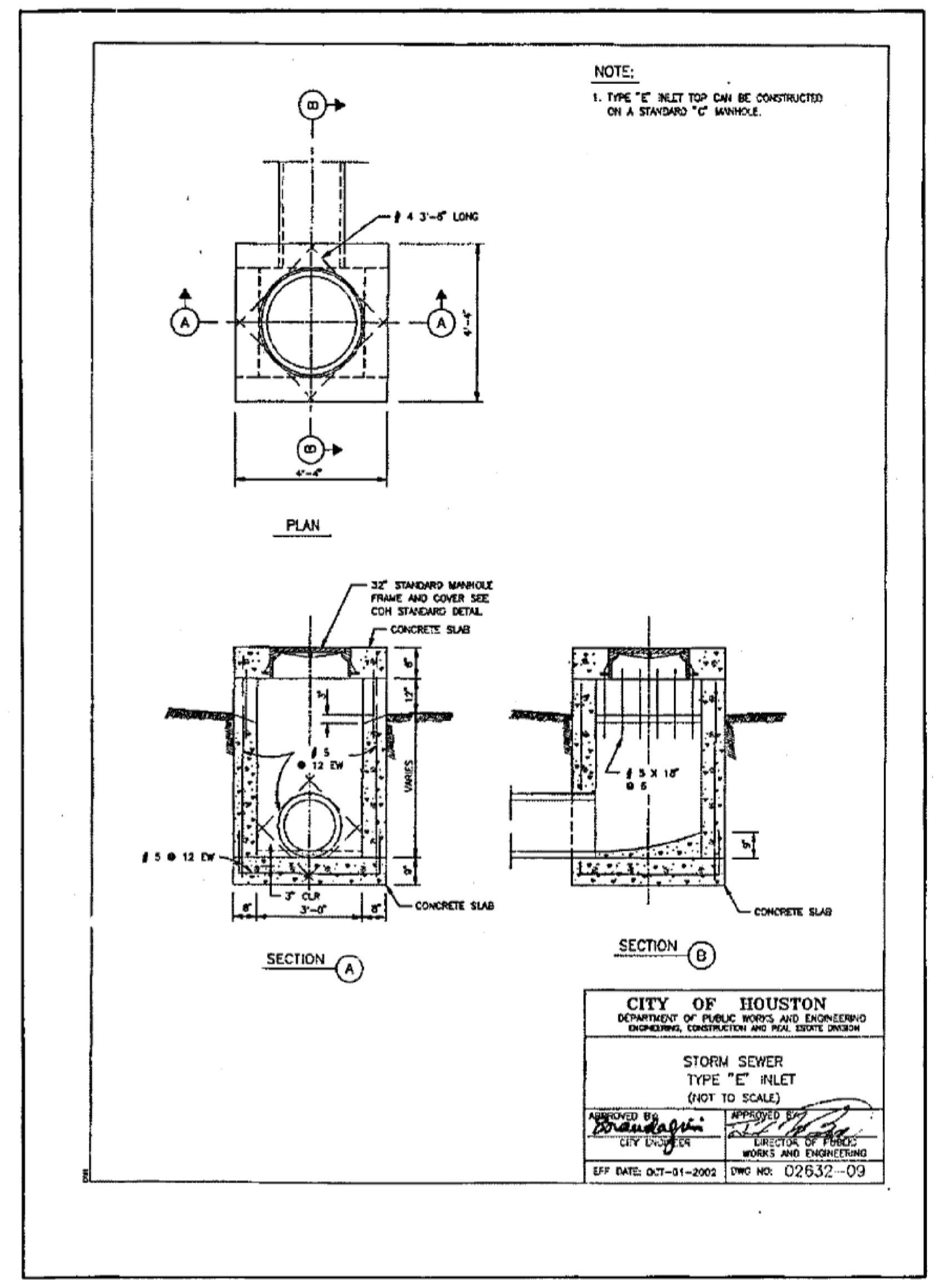
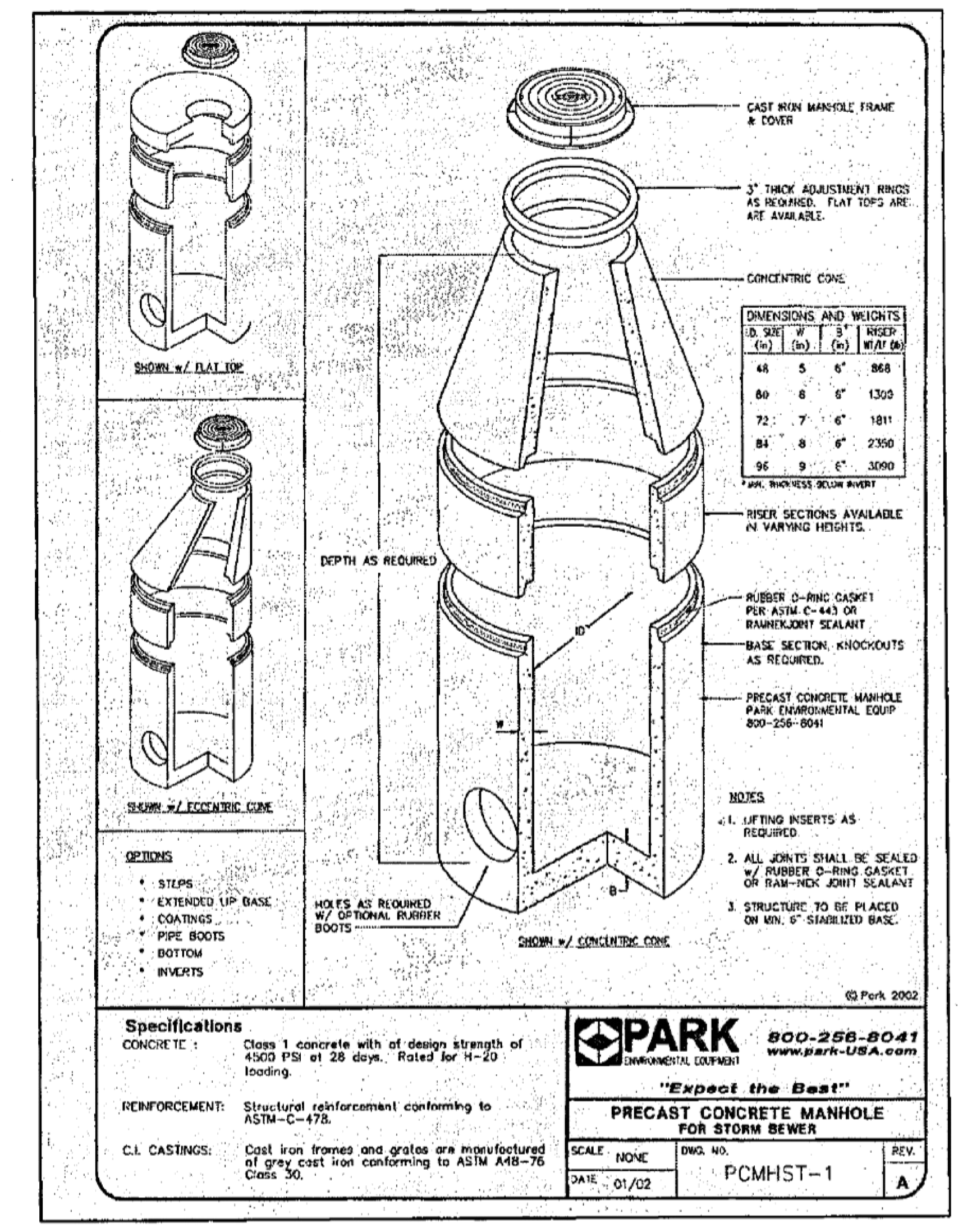








MAX PIPE SIZE (IN)	CONTROL BASIN WIDTH A
30"	4'-0"
36"	5'-0"
48"	6'-0"
60"	7'-0"

MODEL NO.	TOTAL CAPACITY USGal	TREATMENT PERFORMANCE FLOWRATE GPM	CFS	SOLIDS FT^3	OIL USGal
SWST-80	8,000	3,325	7.41	635	2,375

OTHER SIZES & CONFIGURATIONS ARE AVAILABLE

General Information

PARK StormTrooper® Interceptor

The StormTrooper stormwater interceptor is designed to receive & treat stormwater runoff on a gravity-flow and once-through basis.

Guaranteed Performance

Pre-engineered coalescing media packs are utilized for enhanced separation which provide SUPERIOR performance compared to other separators which utilize baffles or diverters.

Applications

The PARK StormTrooper® Interceptor is designed for stormwater runoff from commercial & industrial applications where excessive pollutants may harm the environment or damage sewer systems.

By-Pass Design

The unique design of the control basin allows for results an owner can clearly see. During a storm event, untreated stormwater enters the inlet compartment and is diverted to the interceptor for treatment. Clean stormwater can be witnessed in the effluent compartment after treatment.

Maintenance

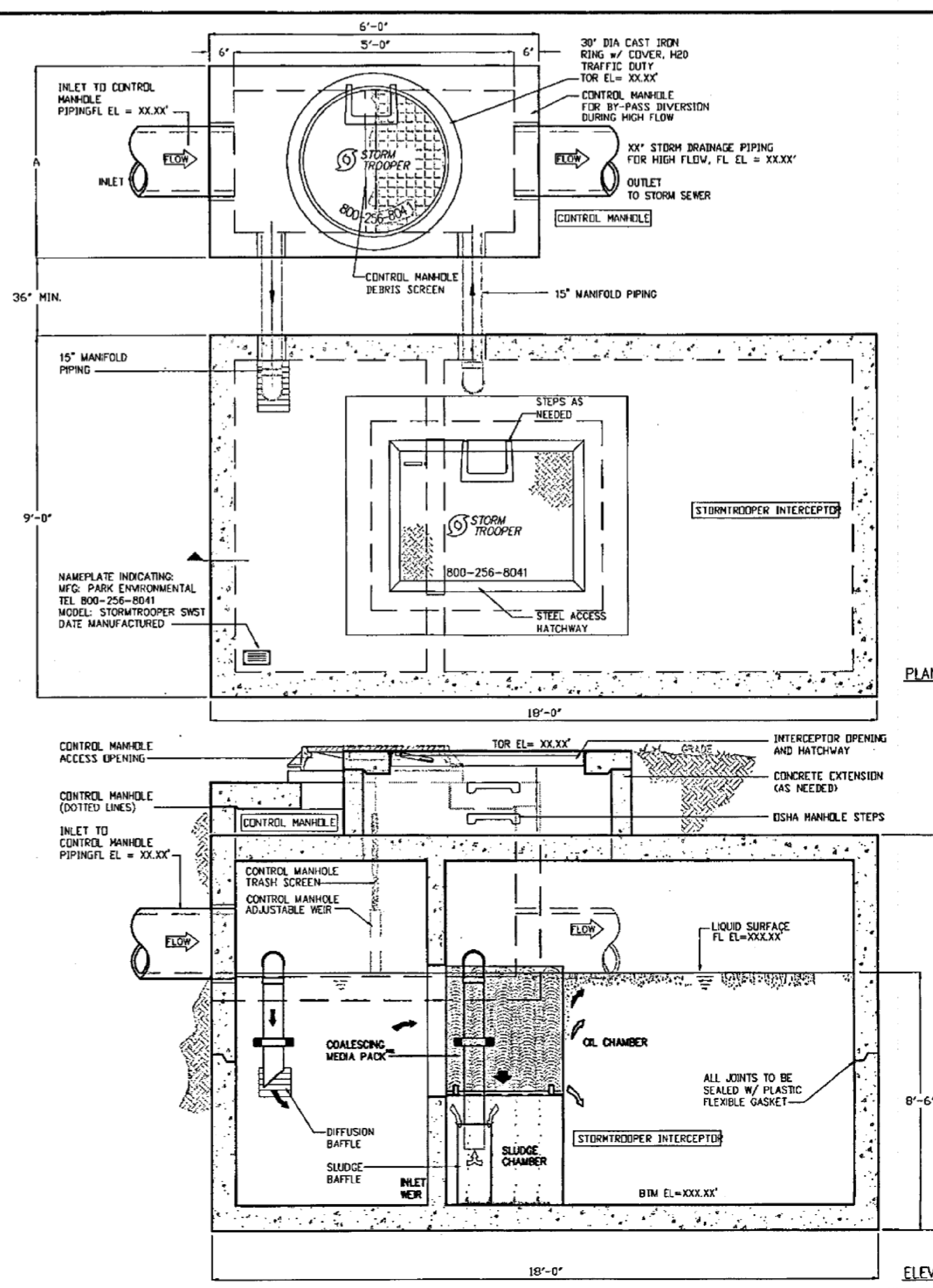
StormTrooper has become known in the industry as the "Easiest to Maintain." Hatchway design makes inspection and vault entry accessible for maintenance. All compartments allow for the larger hose associated with Vactor Truck pump out. Maintenance instructions and logs are available from Park Engineering.

Call Us

Contact Park Engineering for help sizing, SWQMPs and performance information.

APPLICATIONS

- ☐ *INDUSTRIAL*
- ☐ *COMMERCIAL*
- ☐ *RESIDENTIAL*
- ☐ *INSTITUTIONAL*
- ☐ *REDEVELOPMENT*
- ☐ *NPDES - MUNICIPAL/INDUSTRIAL*
- ☐ *BMP STRUCTURAL SOLUTION*



Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

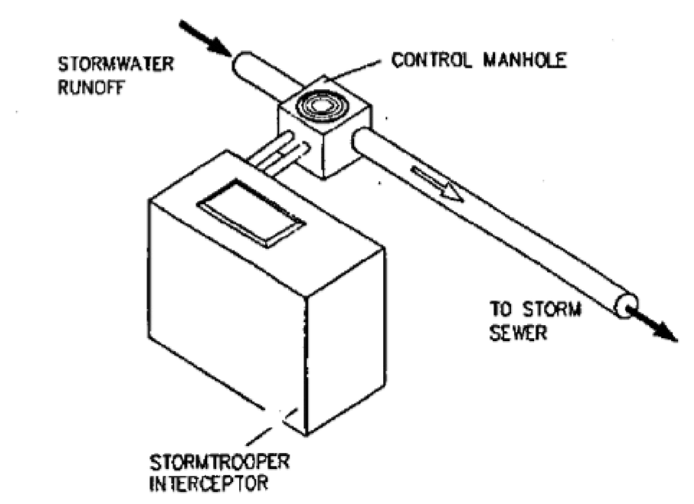
ACCESS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

Hatchway frame & cover shall be fabricated with min. 1/4" thick nonskid floor plate, boltdown, gasketed, and lifting handles. All materials to be corrosion restistant. H-20 Traffic Loading.

Engineering Data

Interceptor is structurally and hydraulically engineered conforming to regulatory standards. Nominal total liquid capacity and oil holding capacity as indicated.

Stormwater interceptors are utilized to reduce non-point source pollution associated with oil and sediment. The interceptor is designed to allow for the detainment of settlable & floatable solids & liquids. The interceptor should be inspected on a regular basis to determine proper operation and cleaning.



Storm Trooper. PATENT PENDING

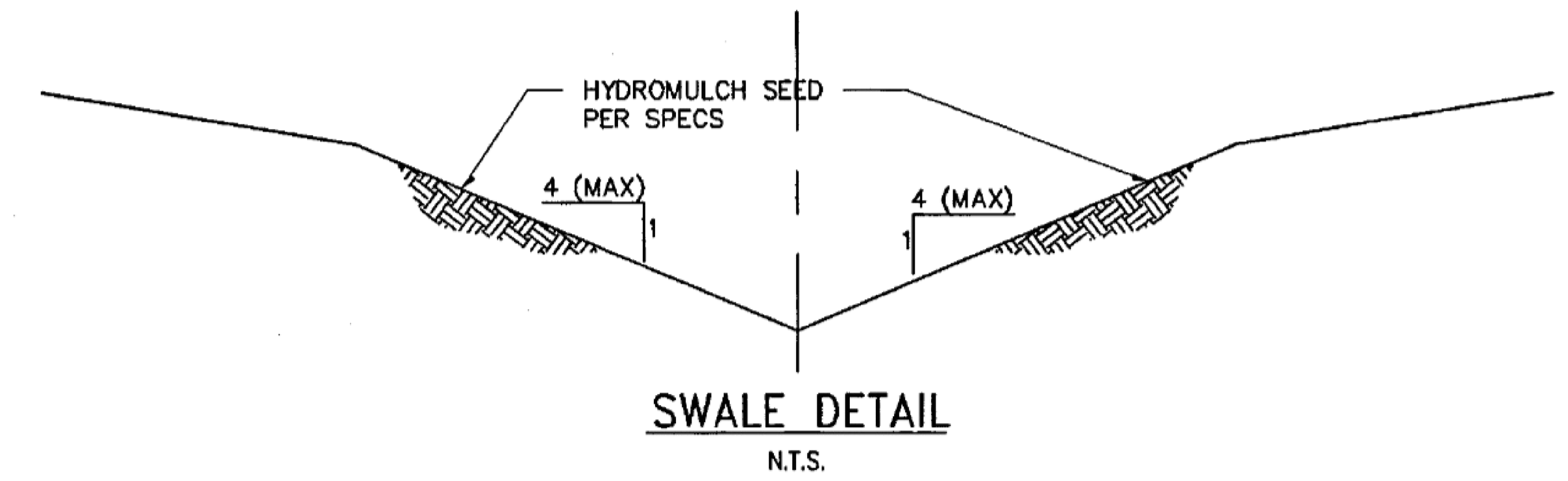
PROJECT :	
CUSTOMER :	
ARCHITECT :	
ENGINEER :	
ORDER # :	
DATE :	

PARK ENVIRONMENTAL EQUIPMENT 800-256-8041 www.park-USA.com

"Expect the Best"

STORMWATER INTERCEPTOR
STORMTROOPER MODEL SWST

SCALE	DWG. NO.	REV.
NONE	SWST-80	A
DATE 12/03		



SWALE DETAIL
N.T.S.

PRIVATE UTILITY LINES SHOWN

N/A Date:
CENTERPOINT ENERGY/ELECTRIC FACILITIES
(Approved only for underground ductlines, unless otherwise noted.)
Valid at time of review only.

N/A Date:
SBC
Approved for underground conduit facilities only.
Signature valid for one year.

N/A Date:
CENTERPOINT ENERGY/GAS FACILITIES
Gas service lines are not shown.

NO.	DATE	REVISIONS	BY

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 578-9595
FAX: (281) 578-9686

STATE OF TEXAS
W. JOEL SEYBERT
52999
LICENSED
PROFESSIONAL ENGINEER
1/16/06

CYPRESS-FAIRBANKS I.S.D.
DETENTION BASIN AND
STORM WATER PUMP STATION
TO SERVE 130 ACRE TRACT

STORM SEWER DETAILS

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	WASTEWATER	TRAFFIC
ST. & BRIDGE	STORMWATER	SWQ

FILE NO.
GFS NO.
DRAWING SCALE
HORZ: N.T.S. VERT:
CITY OF HOUSTON PM

DATE	SHEET NO.
December 2005	11 OF 22

16 Jan 2006 1:58PM chrism
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Revision / Date
⚠1 ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
11/20/2024

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800.687.1229

⚠1 STORM WATER QUALITY DETAILS (FOR REFERENCE ONLY)

Job No. 01818-05-01
Drawn By: KB
Date: 11/20/2024
Sheet No. C24.03

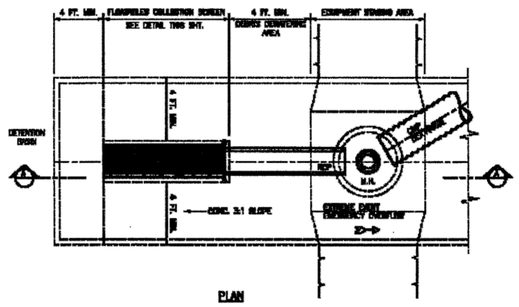
Harris County Flood Control District

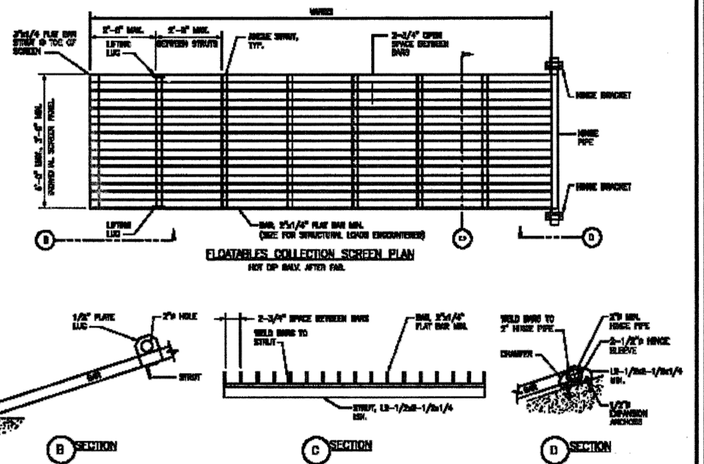
POLICY, CRITERIA, & PROCEDURE MANUAL

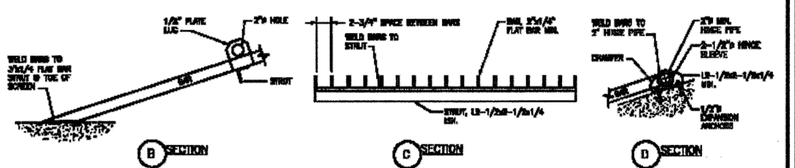
DATE: 10/5/04

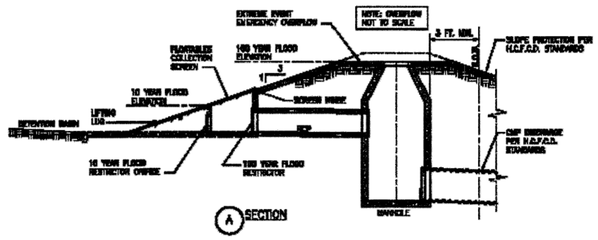
EXHIBIT 16-1

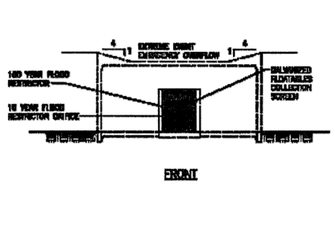
FLOATABLES COLLECTION SCREEN - DESIGN GUIDE











DESIGN CONSIDERATIONS FOR ENGINEER

1. DESIGN FOR ACCESSIBILITY BY H.C.F.C.D. MAINTENANCE PERSONNEL.
2. SCREEN TO BE DESIGNED FOR HAND RAKING OF DEBRIS TO TOP OF STRUCTURE FOR DEWATERING AND TRUCK PICK UP.
3. 4' MINIMUM CONCRETE PAVED ACCESS ON ALL SIDES FOR MAINTENANCE PERSONNEL.
4. 3:1 MINIMUM SLOPE FOR TRASH COLLECTION SCREEN AND CONCRETE PAVING.
5. PROVIDE ALL-WEATHER ACCESS ROAD TO SCREEN AND DEBRIS REMOVAL SITE.
6. SCREEN SIZE AND NET OPENING AREA TO ALLOW FLOW RATE OF 1.0 CFS THROUGH SCREEN, ASSUMING NO CLOGGING. BOX AREA BELOW RESTRICTOR WALL FOR 10 YEAR FLOW RATE AND OVERALL SCREEN AREA FOR 100 YEAR FLOW RATE.

MINIMUM SCREEN AREA (SQ.FT.)= Q (CFS) / .333

7. SCREEN HEIGHT MAY REQUIRE MULTIPLE 4' WIDE SCREEN PANELS.

Harris County Flood Control District
9900 Northwest Freeway
Houston, Texas 77092

NO.	DATE	REVISIONS	BY

HARRIS COUNTY
PUBLIC INFRASTRUCTURE DEPARTMENT
ENGINEERING DIVISION

FOR INTERIM REVIEW ONLY
CONSENT GRANTED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES
ENGINEER
P.E. SERIAL No.SERIAL
DATE

FLOATABLES COLLECTION SCREEN

DESIGNED
DRAWN
CHECKED
DATE

JOB NO.
FILENAME
FILE NO.
SHT. NO. 2/4

Provided By The Harris County Engineering Division—Stormwater Quality Section

ACCORDING TO F.I.R.M. MAP NO.'S 4802870405J & 4802870415J (COMMUNITY-PANEL NO.'S 4802870405J & 4802870415J), MAP REVISED DATE: NOVEMBER 6, 1996. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.

ACCORDING TO TSARP F.I.R.M. MAP NO.'S 48201C0405L & 4802870415J, (COMMUNITY-PANEL NO.'S 4802870405L & 4802870415J), PRELIMINARY DATE: SEPTEMBER 30, 2004, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110155— AS PUBLISHED BY THE HARRIS COUNTY PUBLIC INFRASTRUCTURE WEBSITE, BRASS DISK STAMPED 110155 ON BRIDGE AT FRY RD. AND CYPRESS CRTFK LOCATED ON CONCRETE WALK, ON SOUTHWEST CORNER OF SOUTHBOUND BRIDGE, SOUTH OF STREAM CENTERLINE IN KEY MAP 369M IN THE CYPRESS WATERSHED NEAR STREAM K100-00-00
ELEV.=156.20 (NAVD 1988, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A"— COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED AT THE SOUTHEAST CORNER OF FRY RD. AND CYPRESS NORTH HOUSTON.
ELEV.=151.35

TBM "B"— COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD. ±450' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.34

TBM "C"— BOX CUT ON CONCRETE HEADWALL LOCATED IN THE EAST R.O.W. OF FRY RD. ±1010' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON.
ELEV.=149.41

TBM "D"— COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE EAST R.O.W. OF FRY RD.±1560' SOUTH OF THE CENTERLINE OF CYPRESS NORTH HOUSTON AND ±220' NORTH OF THE MOST WESTERLY SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV.=151.11

TBM "E"— BOX CUT ON "BS" INLET LOCATED IN THE SOUTH R.O.W. OF CYPRESS NORTH HOUSTON ±1180' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=149.13

TBM "C"— COTTON SPINDLE W/ BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTH R.O.W. OF CYPRESS NORTH HOUSTON ±500' EAST OF THE CENTERLINE OF FRY RD.
ELEV.=150.87

PRIVATE UTILITY LINES SHOWN

N/A — Date:
CENTERPOINT ENERGY/ELECTRIC FACILITIES
(Approved only for underground ductlines, unless otherwise noted.)
Valid at time of review only.

N/A — Date:
SBC
Approved for underground conduit facilities only.
Signature valid for one year.

N/A — Date:
CENTERPOINT ENERGY/GAS FACILITIES
Gas service lines are not shown.

NO.	DATE	REVISIONS	BY

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 578-9595
FAX: (281) 578-9686

W. JOEL SEYBERT — STATE OF TEXAS — 92599 — LICENSED — PROFESSIONAL ENGINEER — 11/6/06

CYPRESS-FAIRBANKS I.S.D.
DETENTION BASIN AND
STORM WATER PUMP STATION
TO SERVE 130 ACRE TRACT

FLOATABLES
COLLECTION
SCREEN DETAIL

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	WASTEWATER	TRAFFIC
ST. & BRIDGE	STORMWATER	SWQ

FILE NO.	
GFS NO.	
DRAWING SCALE	
HORZ: N.T.S.	VERT:
CITY OF HOUSTON PM	
DATE	SHEET NO.
December 2005	12 OF 22

Revision / Date
ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

FRED DALLY — STATE OF TEXAS — 90904 — LICENSED — PROFESSIONAL ENGINEER
11/20/2024

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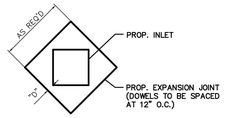
FLOATABLES COLLECTION SCREEN DETAIL (FOR REFERENCE ONLY)

Job No.	Sheet No.
01818-05-01	C24.04
Drawn By: KB	
Date: 11/20/2024	

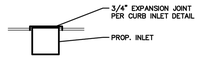
NOTES:

1. LOCATE EXPANSION JOINTS AS SHOWN. SAWED JOINTS SHALL BE SPACED EVENLY BETWEEN PAVEMENT EXPANSION JOINTS AT 15' MAXIMUM SPACING.
2. ALL CURBS TO BE 6" UNLESS OTHERWISE NOTED.
3. LINE UP JOINTS IN SIDEWALK W/ JOINTS IN PARKING LOT.
4. INSTALL EXPANSION JOINTS IN ALL DRIVEWAYS AT ROW LINE.



D = 24" FOR MANHOLES & GRATE INLETS
D = 12" FOR AREA INLETS & AREA DRAINS

STORM SEWER INLET
W/ EXPANSION JOINT
N.T.S.



CURB INLET
W/ EXPANSION JOINT
N.T.S.

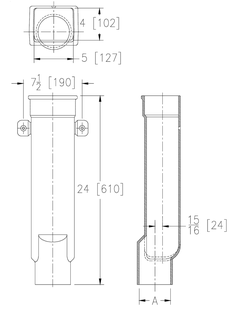
ZURN

SPECIFICATION SHEET

Z191
5 [127] X 4 [102] X 24 [610] DOWNSPOUT BOOT

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Changes Without Notice



Product Designation	Size	A Pipe Size	Approx. Wt. Lbs. [kg]
Z191-24	5 x 4 x 24 [127 x 102 x 610]	4 [102]	30 [14]

ENGINEERING SPECIFICATION: ZURN Z191 5[127] X 4 [102] X 24 [610] Downspout Boot, Dura-coated cast iron body and strap with 1/4 [6] dia. cast holes for flat head bolts.

OPTIONS (Check/specify appropriate options)

PIPE SIZE
4 [102]

OUTLET
___ NH No-Hub

PREFIXES
___ Z D.C.C.I. Body*

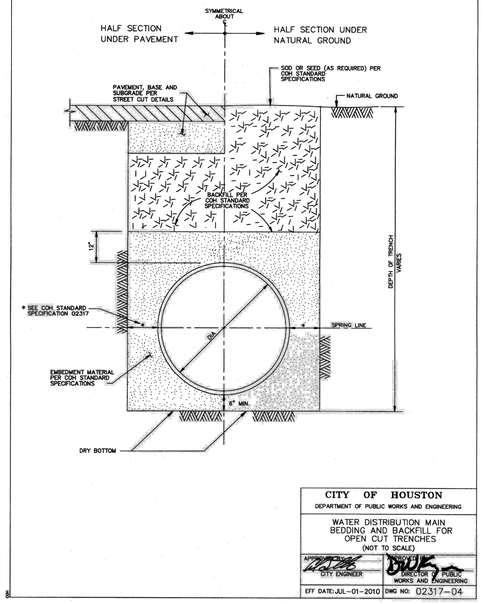
SUFFIXES
___ -G Galvanized Cast Iron
___ -CA Cleanout Access with Plug

CONTRACTOR TO COORDINATE FINAL DOWNSPOUT SIZE AND LOCATIONS WITH MEP AND ARCH.

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. G DATE: 10/21/10 C.N. NO. 111909
DWG. NO. 58834 PRODUCT NO. Z191

ZURN INDUSTRIES, LLC. ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514
Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com
In Canada: ZURN INDUSTRIES LIMITED ♦ 3044 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

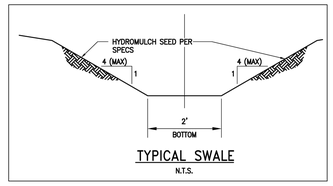


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

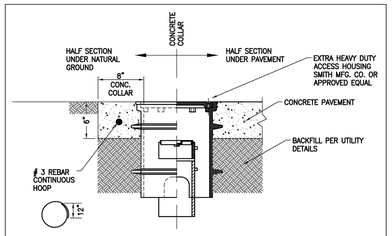
WATER DISTRIBUTION MAIN
BEDDING AND BACKFILL FOR
OPEN CUT TRENCHES
(NOT TO SCALE)

APPROVED: CITY ENGINEER
DIRECTOR OF PUBLIC WORKS AND ENGINEERING

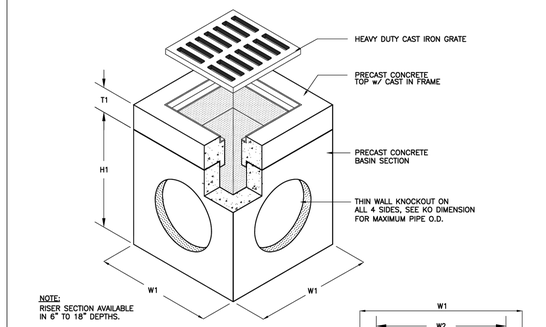
EFF DATE: JUL-01-2010 DWG NO: 02317-04



TYPICAL SWALE
N.T.S.



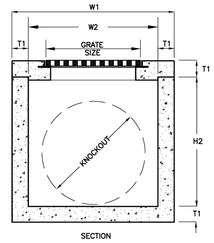
STORM SEWER CLEANOUT
N.T.S.



NOTE:
RISER SECTION AVAILABLE IN 6" TO 18" DEPTHS.

DIMENSIONS							
W1	W2	H1	H2	T1	KO	GRATE SIZE[1]
24"	18"	34"	30"	4"	15"	18"x18"x1-4"
26"	18"	34"	30"	4"	17"	20"x20"x1-4"
32"	22"	41"	36"	5"	22"	24"x24"x2"
37"	25"	42"	36"	6"	24"	27"x27"x2"
42"	30"	42"	36"	6"	30"	32"x32"x2"
48"	36"	42"	36"	6"	32"	38"x38"x2"
60"	48"	54"	48"	6"	48"	38"x38"x2"
72"	60"	66"	60"	6"	60"	38"x38"x2"
84"	72"	78"	72"	6"	72"	38"x38"x2"
96"	83"	78"	72"	6"	84"	38"x38"x2"

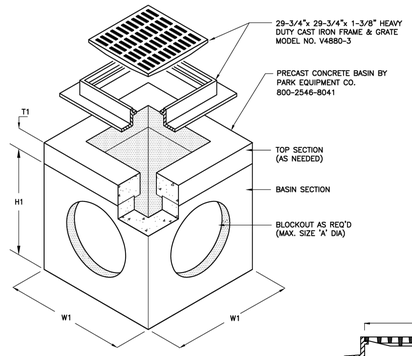
1. LARGER GRATES SIZES ARE AVAILABLE.



SECTION

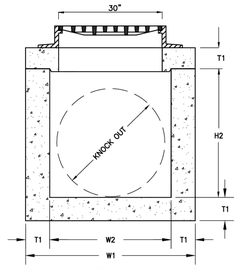
SPECIFICATIONS
CONCRETE : Class 1 concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.
REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

GRATE INLET IN GRASS/LANDSCAPED AREAS
N.T.S.



ISOMETRIC

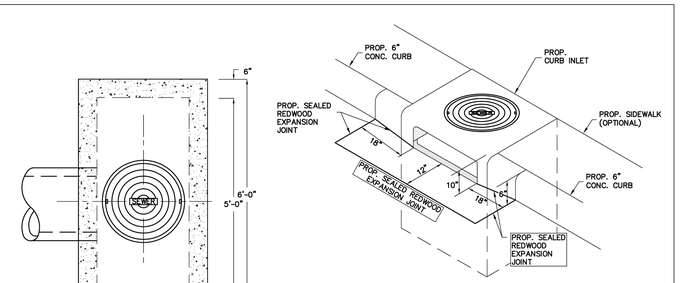
DIMENSIONS						
W1	W2	H1	H2	T1	K.O.	GRATE SIZE
42"	30"	36"	30"	6"	30"	30"X30"
48"	36"	42"	36"	6"	36"	30"X30"
60"	48"	54"	48"	6"	48"	30"X30"
72"	60"	66"	60"	6"	60"	30"X30"
84"	72"	78"	72"	6"	72"	30"X30"
96"	83"	78"	72"	6"	84"	30"X30"



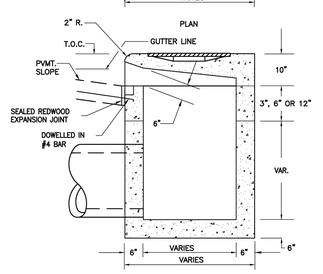
SECTION

SPECIFICATIONS
CONCRETE : Class II concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.
REINFORCEMENT: Grade 60 reinforced with steel rebar to conform to ASTM A615 on required centers or equal.
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

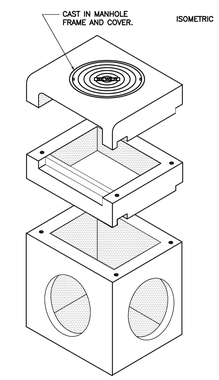
GRATE INLET IN PAVEMENT
N.T.S.



PLAN



SECTION



ISOMETRIC

SPECIFICATIONS
CONCRETE : Class 1 concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.
REINFORCEMENT: Grade 60 reinforced. No. 4 steel rebar to conform to ASTM A615 on required centers or equal.
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

ISOMETRIC

NOTE: ADJUST BASE SIZE AS REQUIRED

CURB INLET DETAIL
N.T.S.

Revision / Date
ADDENDUM 2 11/20/2024

Project:
2024 CY RANCH HS ADDITIONS & RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
11/20/2024

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MISCELLANEOUS DETAILS
SHEET 2 OF 3

Job No. 01815-05-01
Drawn By: KB
Date: 11/20/2024
Sheet No. C26.02

6/18/2024, 3:40:48 PM
P:\2024 - Daily + Associates - Civil\C24-01-50 Cypress Ranch HS\EMAILS\Received\2024-06-18 ACC model download\01815-05-01 Cy Ranch HS Renovation_ARCH_v23 - DA.rvt

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:

THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:

1. INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH CITY OF HOUSTON, TX AMENDMENTS.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16, AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 360-16, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:

SUPERIMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF).

BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
1. SLAB ON GRADE	0	100
2. ROOF	20	20
3. MECHANICAL AREAS	10	150(**)

*INCLUDES AN ALLOWANCE OF 15 PSF FOR PARTITION WEIGHT
**EQUIPMENT WEIGHT IF LARGER

D. LATERAL DESIGN LOADS:

1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF **138** MPH (ASD WIND SPEED OF **102** MPH), 3-SECOND GUST, WITH EXPOSURE **C** AND A RISK CATEGORY **III** (ASCE 7-16 METHOD)
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

		ZONE 1		ZONE 1'		ZONE 2		ZONE 3	
ROOF	10 FT²	-63.3	16.2	-36.4	16.2	-83.5	16.2	-113.8	16.2
	100 FT²	-49.4	16	-36.4	16	-65.7	16	-78.2	16

		ZONE 4		ZONE 5	
WALLS	10 FT²	-39.4	36.4	-48.5	36.4
	100 FT²	-34.1	31	-37.8	31

a. RE: IBC **2018** FOR ADDITIONAL DESCRIPTION OF PRESSURE ZONES.

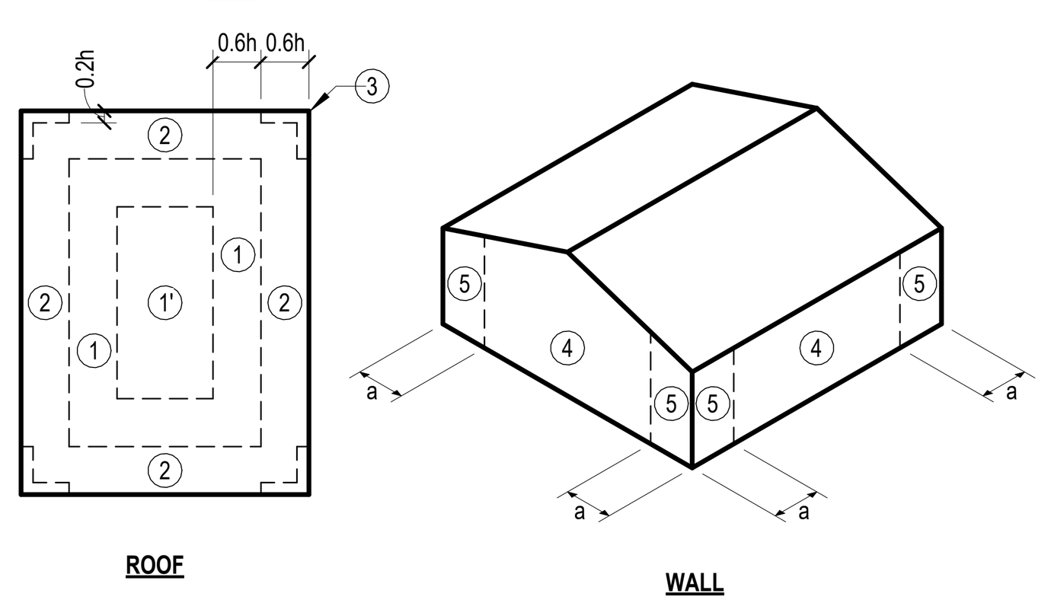
b. POSITIVE PRESSURES ARE PRESSURES ACTING TOWARD THE BUILDING.

c. NEGATIVE PRESSURES ARE PRESSURES ACTING AWAY FROM THE BUILDING.

d. VALUES ABOVE ARE FOR BASIC DESIGN WIND PRESSURES. THE ASD FACTOR 0.6.

e. ZONE WIDTH DIMENSIONS:

a (walls) = **6'-5"**
0.2h = **4'-0"**
0.6h = **12'-0"**



E. SEISMIC CRITERIA:

1. IMPORTANCE FACTOR: 1.25
2. RISK CATEGORY: III
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   a. Ss: 0.067
   b. S1: 0.039
4. SITE CLASS: ....D
5. SPECTRAL RESPONSE COEFFICIENTS:
   a. SDS: 0.072
   b. SD1: 0.062
6. SEISMIC DESIGN CATEGORY: ....A
7. BASIC SEISMIC FORCE-RESISTING SYSTEM: "STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DEISGNED FOR SEISMIC RESISTANCE

F. GROUND SNOW LOADS: 5 PSF

G: SPECIAL LOADS:

1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
TREADS	300 POUNDS AT CENTER
TOP RAILS	50 PLF HORIZONTALLY
OTHER RAILS, FILLERS & CONNECTIONS	50 PSF HORIZONTALLY
HAND RAILS	200 POUNDS ANY DIRECTION

2. PIPE LOADS WITH WATER:

SIZE	WEIGHT MAX.	SPACING OF HANGERS
4" DIA.	17 PLF	10'-0"
6" DIA.	32 PLF	10'-0"
8" DIA.	50 PLF	10'-0"
10" DIA.	75 PLF	5'-0"
12" DIA.	102 PLF	5'-0"

VALUES ASSUME SCHEDULE 40 STEEL PIPE

H. ROOF RAIN LOAD DATA: RAIN INTENSITY, i = **5.1** IN/HR

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.

B. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.

C. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.

E. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.

F. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.

G. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.

H. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.

I. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.

J. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.

K. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.

L. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

M. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.

N. SHOP DRAWINGS

1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:

   CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
   STEEL REINFORCING
   CONCRETE MIX DESIGN
   CONTROL JOINT LAYOUT
   CONCRETE MATERIAL CERTIFICATES
   STRUCTURAL STEEL FRAMING
   STRUCTURAL STEEL CONNECTION CALCULATIONS
   STEEL ROOF DECK
   COLD FORMED METAL FRAMING
   COLD FORMED METAL FRAMING CALCULATIONS
   MISC. STEEL FABRICATIONS

6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

   A. SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER

P. GENERAL FRAMING NOTES:

1. FOR ALL MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME THE FOLLOWING AS A MINIMUM AND CONFIRM FINAL ASSUMPTIONS WITH STRUCTURAL ENGINEER:

   EQUAL LEG ANGLES = L4X4X5/16
   LLV ANGLES = L6X4X5/16
   CHANNELS = C6X8.2
   SQUARE TUBE = HSS6X6X3/8
   LSV TUBE = HSS12X8X1/2
   ROUND TUBE = 6" STD PIPE
   WIDE FLANGE = W14X22
   STEEL PLATE = 3/8" THICK

2. FOR ALL MECHANICAL OPENINGS SHOWN ON ARCHITECTURAL OR MEP DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE W14X22 PERIMETER BEAMS AS REQUIRED TO FRAME REQUIRED OPENING WHERE OPENING DIMENSIONS EXCEED 5'-0" IN ANY DIRECTION.
3. FOR ALL WINDOWS, STOREFRONTS AND CURTAINWALLS EXCEEDING 10'-0" IN LENGTH WHERE HANGING STEEL TO SUPPORT THE HEADER IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE C6X8.2 VERTICAL HANGERS WITH L4X4X1/4 KICKERS AT 4'-0" OC AND CONTINUOUS L6X4X5/16 ANGLE ALONG THE BOTTOM. PROVIDE CONTINUOUS HSS6X2X1/4 (LSH) IN LIEU OF L6X4 BOTTOM ANGLE AND GALVANIZE 3/8" BENT LEDGER PLATE WHERE MASONRY WILL BE SUPPORTED.
4. FOR ALL FOLDING PARTITIONS WHERE HANGING STEEL TO SUPPORT HEADER TRACK IS NOT SHOWN ON STRUCTURAL DRAWINGS PROVIDE C6x8.2 VERTICAL HANGERS WITH L4x4x1/4 KICKERS AT 4'-0" AND CONTINUOUS WT6X20 ALONG THE BOTTOM. HANGERS SHALL BE SPACED AT 2'-0" ON CENTER AT STACKED ENDS OF PARTITION.
5. FOR ALL COILING OVERHEAD DOORS AND ROLLING GRILLS EXCEEDING 10'-0" IN WIDTH WHERE TUBE STEEL TO SUPPORT THE DOOR/HOUSING IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE HSS12X8X3/8 (LSV) INTERMEDIATE STEEL TUBE.
6. ALL STAIR MEMBERS INCLUDING, BUT NOT LIMITED TO, STRINGERS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY THE STAIR ENGINEER AND STEEL FABRICATOR.

Q. GENERAL FOUNDATION NOTES:

1. FOR ALL SLAB ON GRADE SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME 5" THICK CONCRETE SLAB WITH #4 REINFORCING BARS AT 14" OC IN EACH DIRECTION.
2. MECHANICAL EQUIPMENT AND LOCKERS SHALL RECEIVE A HOUSEKEEPING PAD AS INDICATED IN MEP OR ARCHITECTURAL DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
3. THE MAXIMUM GRADE BEAM SPAN IS 20'-0". PROVIDE ADDITIONAL 24/48 PIER AT MID SPAN WHERE PIERS ARE NOT SHOWN ON PLAN AND ALLOWABLE SPAN IS EXCEEDED.
4. ASSUME GRADE BEAM TYPE "GB1" FOR ALL LOCATIONS WHERE CMU WALLS EXCEED 16'-0" IN HEIGHT ARE SHOWN ON PLANS. SUPPLY 24/48 PIER AT 20'-0" OC MAXIMUM UNDER GRADE BEAM.
5. FOR ALL DUMPSTER ENCLOSURES, SCREEN WALLS, AND OTHER MASONRY FENCES NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 8'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS 'TYPE GB1' GRADE BEAM ON 24/48 DRILLED PIERS SPACED AT 15'-0" MAXIMUM. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #6 VERTICAL BARS SPACED AT 24" ON CENTER IN FULLY GROUTED CELLS.
6. FOR ALL SPORTS FIELDS WHERE THE BACKSTOP WALL IS NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 4'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS CONCRETE FOOTING. FOOTING SHALL BE 1'-0" THICK x 3'-0" WIDE BEARING 3'-0" BELOW FINISHED GRADE. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #5 VERTICAL BARS SPACED AT 32" ON CENTER SUPPORTED BY CONCRETE STEM WALL EXTENDING FROM CONTINUOUS FOOTING. REINFORCE FOOTING WITH LONGITUDINAL (4) #4 BARS AND TRANSVERSE #4 BARS AT 12" ON CENTER. AT STEM WALL PROVIDE #4 DOWELS AT 12" ON CENTER AND (3) #4 CONTINUOUS BARS AT EACH FACE.

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH(PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SLUMP (IN)	W/C RATIO
	3000	3500	4000			
1. DRILLED PIERS	●			1 1/2"	5-7	0.55
2. SLAB-ON-GRADE		●		1"	4-6	0.50
3. GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
4. ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.

C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI

D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.

E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.

F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.

G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.

H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000/3500	4000	5000	6000	3000/3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL."

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN TABLE IN NOTE H ABOVE.

K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.

L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.

1. UNFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
2. UNFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
   a. #6 AND LARGER: 2 INCHES
   b. #5 AND SMALLER: 1 1/2" INCHES
4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
   a. SLABS AND WALLS: 3/4 INCHES
   b. BEAMS AND COLUMNS 1 1/2 INCHES

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY **RABA KISTNER, INC.**
DATED **SEPTEMBER 27, 2024** REPORT NO. **AHA-24-031-00** IS AVAILABLE FOR REVIEW.

B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.

C. SUB-GRADE PREPARATION .

1. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE GEOTECHNICAL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.

2. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION, ROOTS AND DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, AND AS REQUIRED BY GEOTECHNICAL REPORT. THE CLEARING SHOULD EXTEND BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED. ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY GEOTECHNICAL REPORT.

3. BUILDING PAD UNDER SLAB ON GRADE SHALL BE PREPARED TO PROVIDE AN OWNER APPROVED PVR OF 1" OR LESS BASED ON RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.

D. FOUNDATIONS HAVE BEEN DESIGNED FOR ALLOWABLE PRESSURE OF **3,000 PSF.**

E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

STRUCTURAL STEEL

A. ROLLED SHAPES:

1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED
2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B WITH A MINIMUM YIELD OF 46 KSI, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
5. ALL EXPOSED STEEL TO BE GALVANIZED.

B. CONNECTIONS

1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:

   A. ALL WELD SIZES AND LENGTHS
   B. ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
   C. ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
   D. ALL WORK POINT LOCATIONS AND RELATED INFORMATION

2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE **15TH** EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE **15TH** EDITION OF THE AISC MANUAL
7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"

C. WELDS

1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
4. METAL DECK - E60XX
   STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
   ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
5. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED
6. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.

D. HEADED SHEAR CONNECTORS

1. ALL HEADED SHEAR CONNECTORS SHALL BE 3/4 IN. DIAMETER STUDS x 4 1/2 IN. LONG AFTER WELDING AND SHALL CONFORM TO ASTM A108 UNLESS OTHERWISE NOTED.
2. PLACE MAXIMUM NUMBER OF STUDS IN A SINGLE ROW PATTERN AND THE BALANCE IN A DOUBLE ROW PATTERN AS NECESSARY TO SATISFY THE AISC SPACING REQUIREMENT.

E. OPEN WEB STEEL JOISTS:

1. AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPE INDICATED ON THE DRAWINGS, CONFORMING TO SJI OR AISC, WHICHEVER IS MORE STRINGENT.
2. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI.
3. DESIGN ROOF JOISTS USING GOVERNING LOAD COMBINATIONS WITH UPLIFT PRESSURES INDICATED ON COMPONENT AND CLADDING PRESSURES TABLE.

F. STEEL DECK:

TYPE 1

1. PROVIDE 1" VENTED METAL DECK, 20 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 60, GALVANIZED COATING DESIGNATION G90. PROVIDE LIGHT WEIGHT CONCRETE TOPPING (48-60 PCF), FILLING FLUTES ONLY.REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION REQUIREMENTS.
2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
   a. MOMENT OF INERTIA: I =0.088 INCHES^4 /FOOT WIDTH
   b. SECTION MODULUS: Sp =0.167 INCHES^3 /FOOT WIDTH
   c. SECTION MODULUS: Sn =0.165 INCHES^3 /FOOT WIDTH
3. ATTACH STEEL ROOF DECK TO STEEL SUPPORTS AND AT SIDE LAPS AS FOLLOWS:
   a. POWDER-ACTUATED FASTENERS:

      SUPPORTS: "HILTI" X-HSN-24 AND "HILTI" X-ENP-19L15, 32/5 PATTERN
      SIDELAPS: #12 "TEK" @ 8" O.C. MAXIMUM

   b. WELDS:

      SUPPORTS: 5/8" PUDDLE WELD, 32/5 PATTERN
      SIDELAPS: #14 TEK SCREWS @ 8" O.C. MAX

F. STAIR NOTES:

1. ALL STEEL PAN STAIRS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED BY THE STRUCTURAL STEEL CONTRACTOR. THE STAIR MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THEIR PRODUCT, INCLUDING ALL ACCESSORIES AND CONNECTIONS. STAIRS SHALL BE DESIGNED FOR ALL LOADING CONDITIONS REQUIRED BY THE GOVERNING BUILDING CODES IN ADDITION TO ANY SPECIFIC LOADINGS SHOWN ON THE DRAWINGS. THE DESIGN, MANUFACTURE AND INSTALLATION OF ALL STEEL PAN STAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION.
2. STAIR DESIGN CALCULATIONS, PREPARED AND SEALED BY A LICENSED STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW ALONG WITH THE NECESSARY SHOP DRAWINGS. SUBMITTALS WILL BE REVIEWED FOR INFLUENCE AND/OR LOAD APPLICATION TO THE SUPPORTING STRUCTURE, ONLY.
3. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, IN ADDITION TO FIELD PAINT AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.

INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY **RABA KISTNER, INC.**
DATED **SEPTEMBER 27, 2024** REPORT NO. **AHA-24-031-00** IS AVAILABLE FOR REVIEW.

B. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. CONTRACTOR RESPONSIBILITIES:

1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.

D. SPECIAL INSTRUCTIONS:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE **2018** INTERNATIONAL BUILDING CODE, SECTION 1704.
3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCED STANDARD	FREQUENCY
STRUCTURAL / REINFORCING STEEL:	
HIGH STRENGTH BOLTING	
BEARING TYPE CONNECTIONS	PERIODIC
SLIP CRITICAL CONNECTIONS	CONTINUOUS
WELDING OF STRUCTURAL STEEL	
FULL PENETRATION GROOVE WELDS	CONTINUOUS
MULTI-PASS FILLET WELDS	CONTINUOUS
SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS
SINGLE-PASS FILLET WELDS <=5/16"	PERIODIC
FLOOR AND DECK WELDS	PERIODIC
WELDING OF REINFORCING STEEL	
WELDABILITY OF STEEL, OTHER THE ASTM A706	PERIODIC
SHEAR REINFORCEMENT	CONTINUOUS
OTHER REINFORCEMENT	PERIODIC
INSPECTION OF STEEL FRAME AND JOISTS	
DETAILS SUCH AS BRACING AND STIFFENING	PERIODIC
MEMBERS SIZES AND LOCATION	PERIODIC
APPLICATION OF CONNECTION DETAIL	PERIODIC
CONCRETE CONSTRUCTION	
REINFORCING STEEL	PERIODIC RANDOMLY @ 20%
CONCRETE MIX DESIGN	PERIODIC EACH CONCRETE POUR
SAMPLING OF FRESH CONCRETE	CONTINUOUS (SEE NOTE 1)
MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES	PERIODIC EACH POUR
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS
INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC
DRILLED & EPOXIED ANCHORS	EACH APPLICATION (SEE NOTE 2)
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	PERIODIC
SOILS (SLAB-ON-GRADE):	
VISUAL OBSERVATIONS	PERIODIC
PROOF ROLLING OBSERVATION	CONTINUOUS
MOISTURE CONDITIONING & RECOMPACTION	CONTINUOUS OR PERIODIC, 1 DENSITY TEST FOR EACH 2,000 SF
DURING FILL PLACEMENT	CONTINUOUS OR PERIODIC
EVALUATION OF IN PLACE DENSITY FILL	CONTINUOUS OR PERIODIC
PIERS:	
OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING	CONTINUOUS
VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LENGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY CONFIRM PIER DIAMETER, REINFORCING STEEL - RE CONCRETE ABOVE	CONTINUOUS

NOTES:

1. PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 / 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPEC'D VALUE.
2. ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
3. ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
4. CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
5. PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

Revision / 1 Date 11/20/2024 Addendum #2

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS & RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER 11/20/2024

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9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm F-003426
D + A PROJECT #24-072-000

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GENERAL STRUCTURAL CRITERIA

PACKAGE VOLUME

Job No. 01818-05-01
Drawn By: MS
Date: 11/20/24
Sheet No. IF/BID S101

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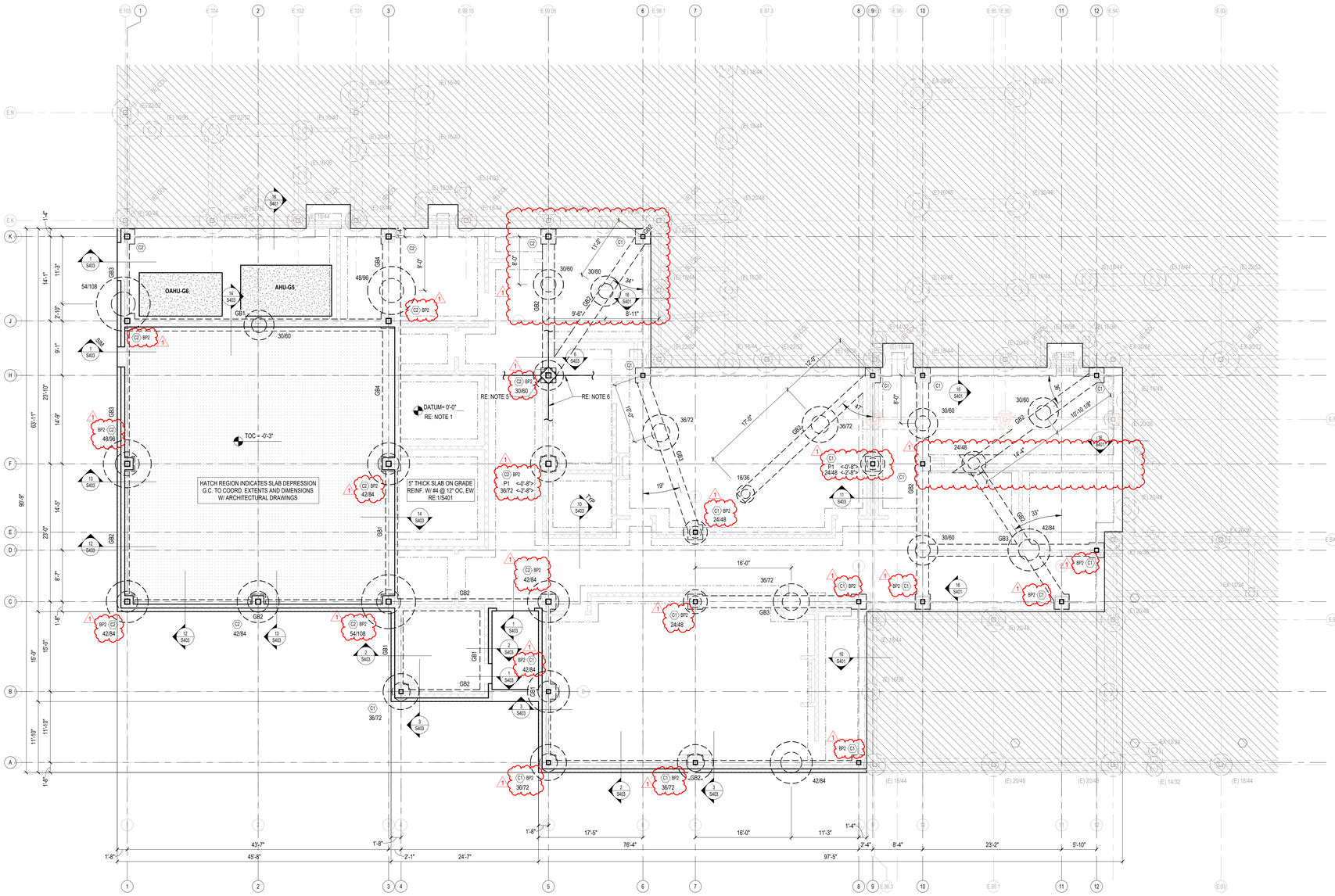
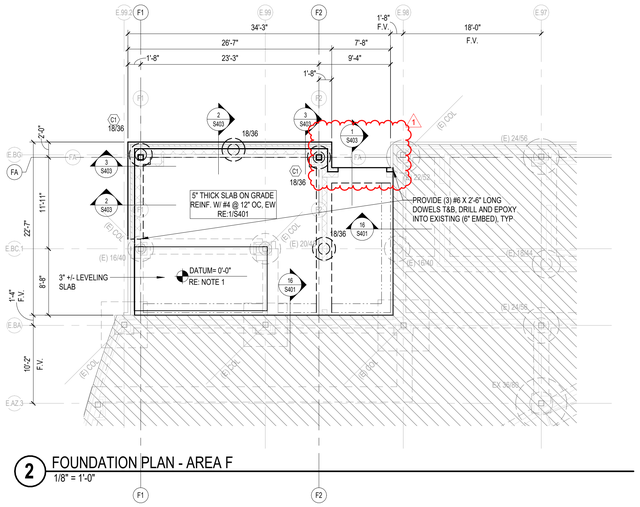
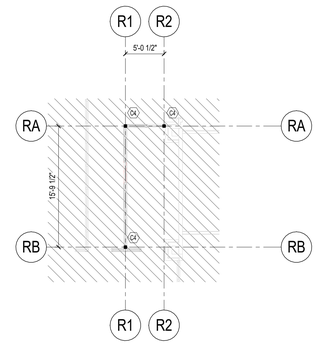


1 FOUNDATION PLAN- AREA G
1/8" = 1'-0"



2 FOUNDATION PLAN - AREA F
1/8" = 1'-0"



3 FOUNDATION PLAN - RECEPTION AREA
1/8" = 1'-0"

FOUNDATION NOTES:

1. DATUM ELEVATION =0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL.
   ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION =0' - 0">.

2. "18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE
   ALL INTERIOR DRILLED PIERS ARE AT ELEVATION <-3'-8"> TYP, UON.
   ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION <-3'-8"> TYP, UON.
   ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRIDS ON THE GRADE BEAM, TYP UON.
   FOR DRILLED PIER SCHEDULE & DETAILS RE: S301.

3. "P1" (EXAMPLE) INDICATES PLINTH TYPE
   ALL INTERIOR PLINTHS ARE TYPE "P1" UON
   ALL PERIMETER PLINTHS ARE TYPE "P2" UON
   ALL CORNER PLINTHS ARE TYPE "P3" UON
   T.O. PLINTHS ARE AT < -0'-8"> TYP, UON.
   FOR PLINTH SCHEDULE & DETAILS RE: S301.

4. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE
   ALL GRADE BEAMS ARE TYPE "GB1" UON AND AT ELEVATION <-0'-8"> TYP, UON.
   PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS PER S/S401.
   FOR GRADE BEAM SCHEDULE & DETAILS RE: S303.

5. * (C1) * (EXAMPLE) INDICATES COLUMN SIZE

   "BP1" (EXAMPLE) INDICATES BASE PLATE TYPE
   FOR COLUMN, BASE PLATE & ANCHOR BOLT SCHEDULE RE: S302
   PROVIDE TYPICAL BLOCKOUTS AT EACH COLUMN PER DETAILS 6, 7, 8 & 9/S401, TYP UON.

6. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING
   OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 15'-0"), TYPICAL UON.
   FOR ADDITIONAL INFORMATION RE: 3/S401.

7. PROVIDE ADDITIONAL REINFORCING AT ALL RE-ENTRANT CORNERS PER 5/S401.

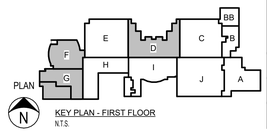
8. TYPICAL LIGHT POLE FOUNDATION DETAIL RE: 1/S405.

9. VERIFY ALL SLOPES, DEPRESSIONS, ELEVATIONS WITH ARCH. PRIOR TO CONSTRUCTION

10. CONCRETE CURBS NOT SHOWN FOR CLARITY.
    G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS.
    FOR TYPICAL CONCRETE CURB DETAIL RE: 13/S401.

11. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY.
    G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS

12. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS.
    FOR TYPICAL HOUSEKEEPING PAD DETAIL RE: 12/S401.



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1	11/20/2024	Addendum #2

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FOUNDATION PLAN- AREA G&F

PACKAGE	VOLUME
Job No. 01818-05-01	Sheet No. IFI/BID S201A
Drawn By: MS	
Date: 11/20/24	

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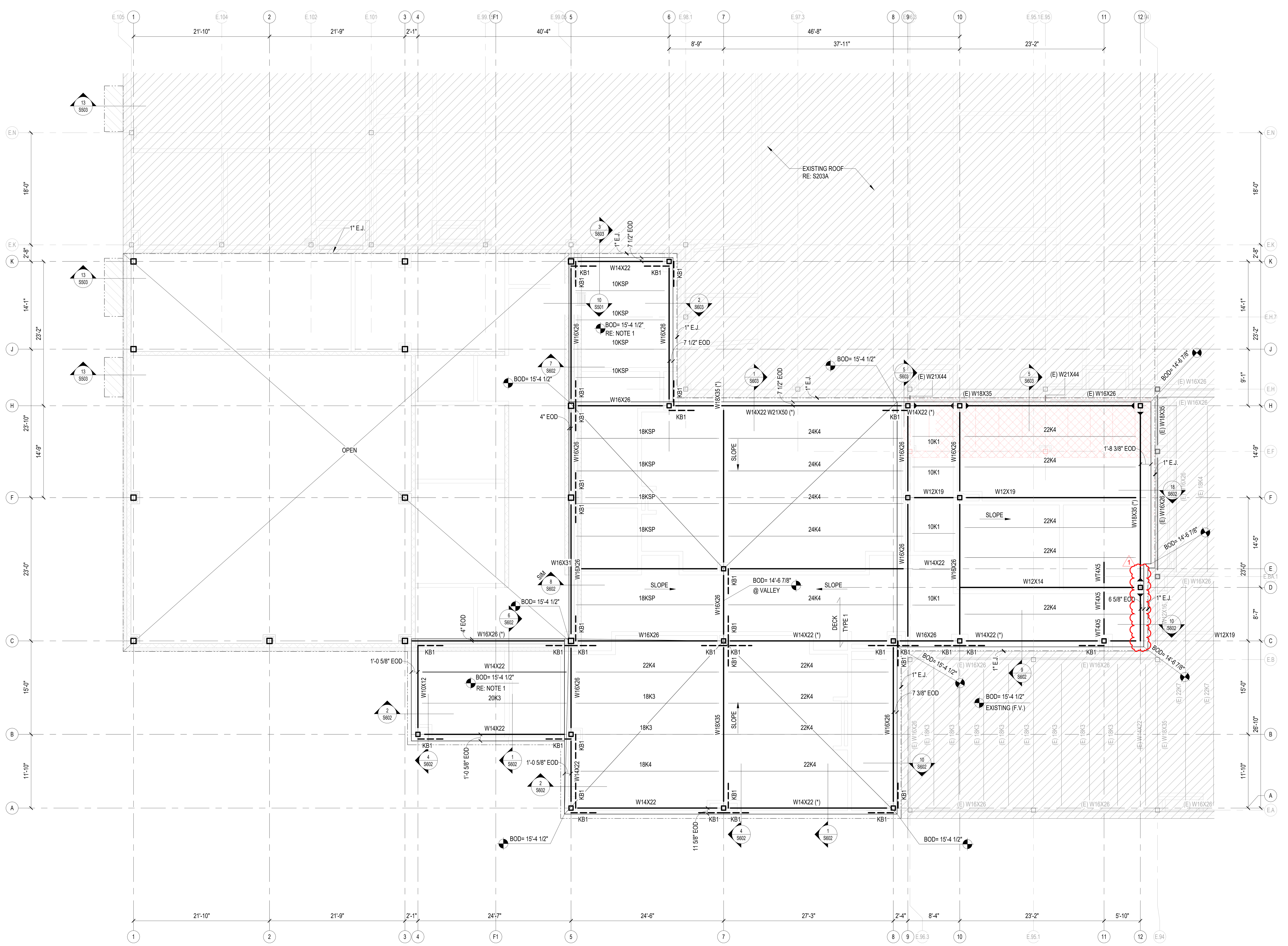
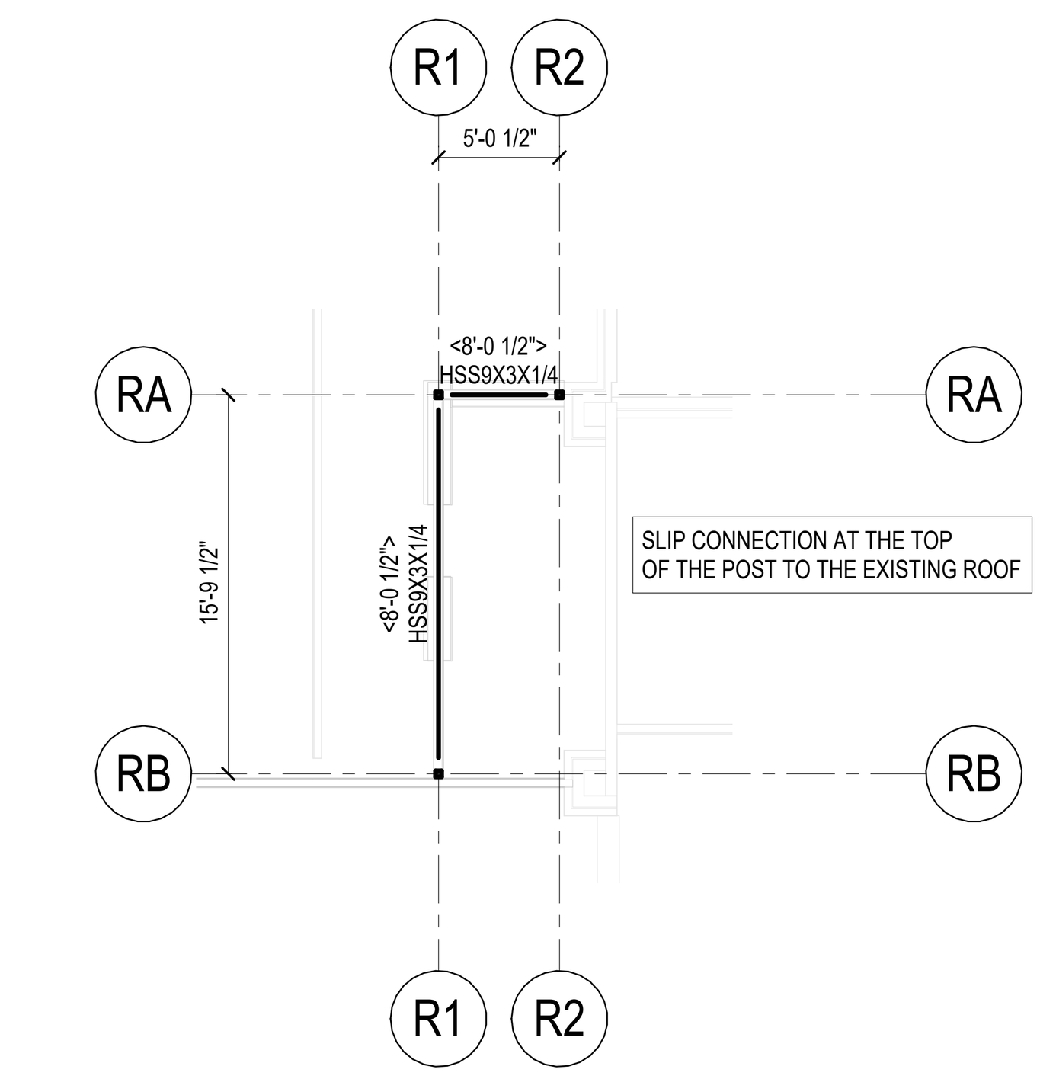


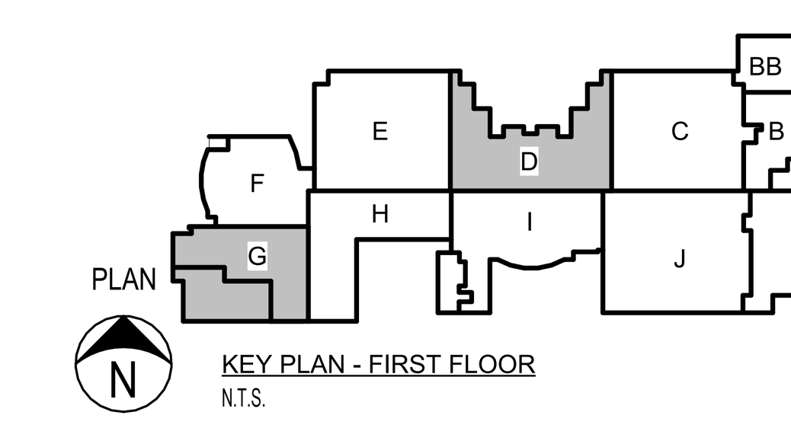
1 LOW ROOF FRAMING PLAN - AREA G
1/8" = 1'-0"



2 RECEPTION FRAMING AREA
1/8" = 1'-0"

STEEL ROOF FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. " DECK / TYPE 1 " (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 1.
   TOS ELEVATION AT ROOF DECKS ARE AT BOD, TYP, UON.
   FOR DECK TYPE INFORMATION **RE: 5/S101**
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP.
   COORDINATE EXACT LOCATION OF ALL MEP UNITS WITH MEP.
   FOR FRAMING AROUND ROOF OPENINGS RE
4. " 350# — — 350# " (EXAMPLE) INDICATES A 350 PLF PIPE RUN BELOW TO BE SUPPORT BY THE STRUCTURE ABOVE.
   G.C. TO COORDINATE FINAL PIPE RUN LOCATIONS WITH MEP DRAWINGS
   ALL PIPE RUNS INDICATED IN THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY.
   FOR ADDITIONAL INFORMATION **RE: 17 / S601** & **RE: 16 / S601**
5. INDICATES L3X3X1/4 KICKERS AT MIDSPAN (U.N.O.) EXTENDING FROM BOTTOM FLANGE TO TOP FLANGE OF ADJACENT JOIST **RE: 6/S702**
6. PROVIDE L3X3X1/4 KICKER AT MID SPAN OF ALL BEAMS DENOTED WITH (*).
7. " KP1 " (EXAMPLE) INDICATES KNEE BRACE TYPE **RE: 11 / S501**
8. JOISTS LABELED WITH "SP" SHALL BE DESIGNED TO SUPPORT ADDITIONAL CONCENTRATED LOADS INDICATED ON PLAN OR IN DETAILS



KEY PLAN - FIRST FLOOR
N.T.S.

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1	11/20/2024	Addendum #2

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FOR
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10700 FRY RD, CYPRESS, TX 77433

STATE OF TEXAS
FRED DALLY
90904
LICENSED
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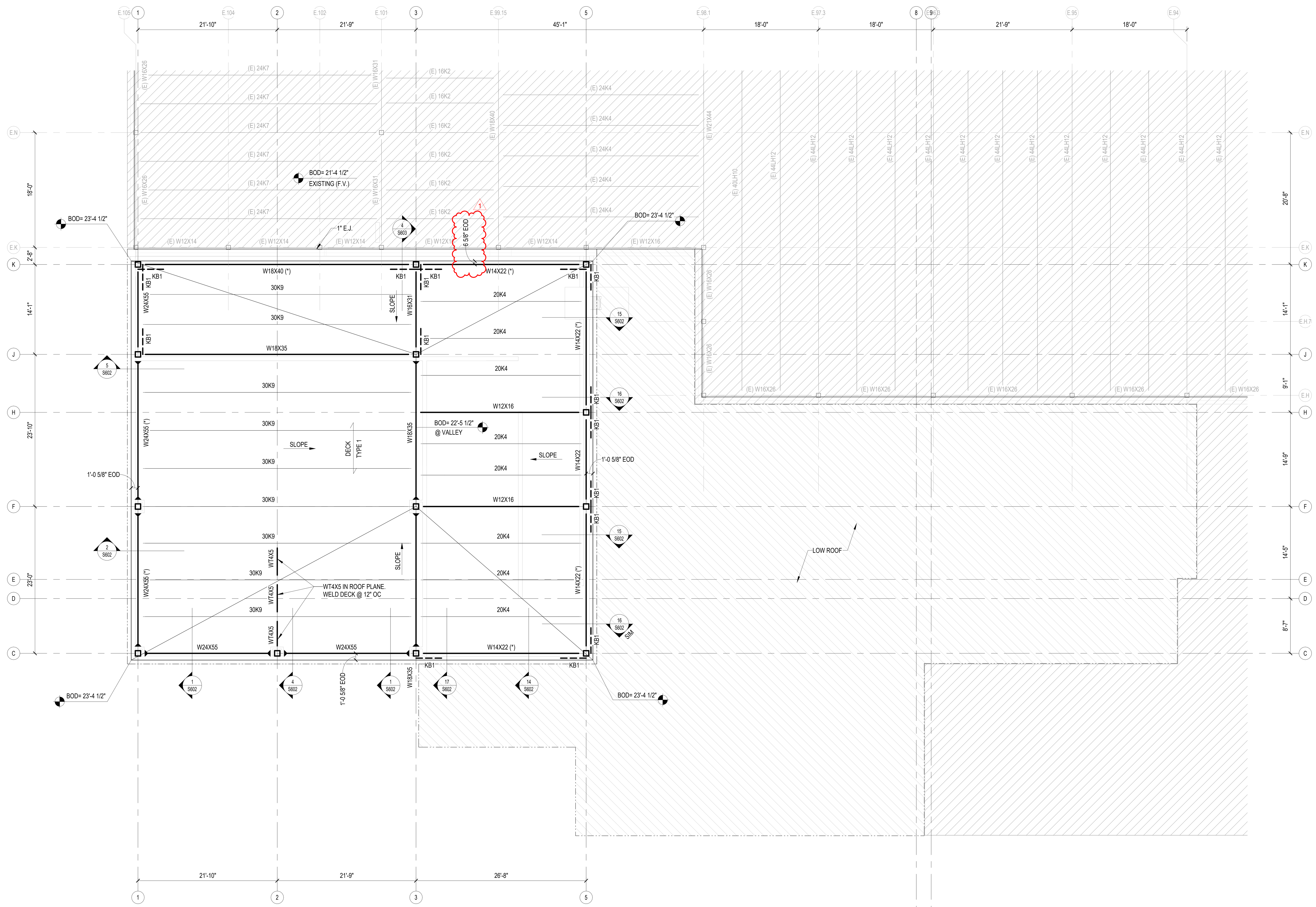
LOW ROOF FRAMING PLAN-
AREA G&F

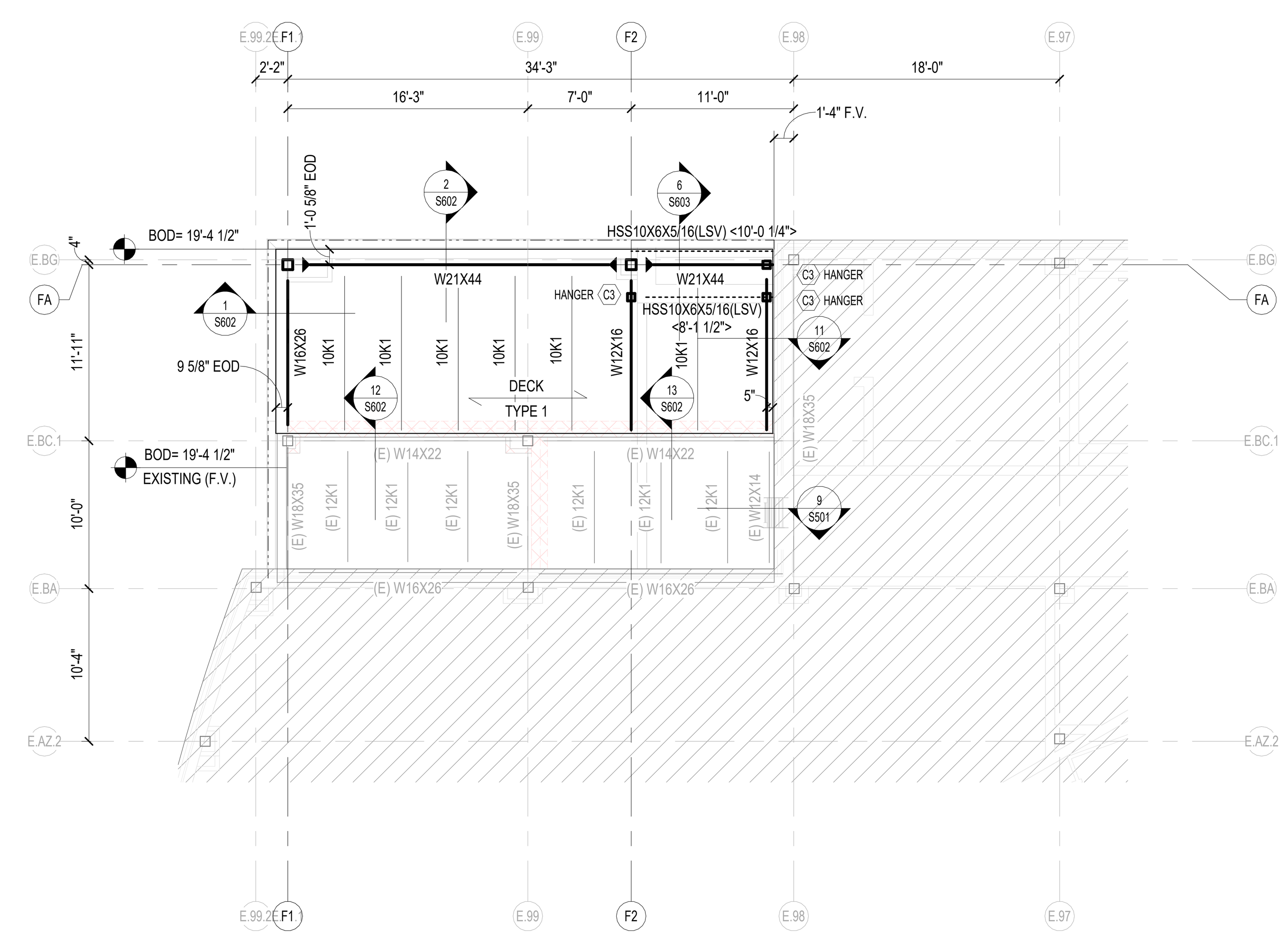
PACKAGE | VOLUME

Job No.: 01818-05-01
Drawn By: MS
Date: 11/20/24
Sheet No. IF/BID
S202A

11/21/2024 10:45:34 AM
Autodesk Docs://CYPRESS-FAIRBANKS ISD - CY RANCH HS RENO/24-072-00 CFISD Cy Ranch Addn_ STRUCT_ R23.rvt



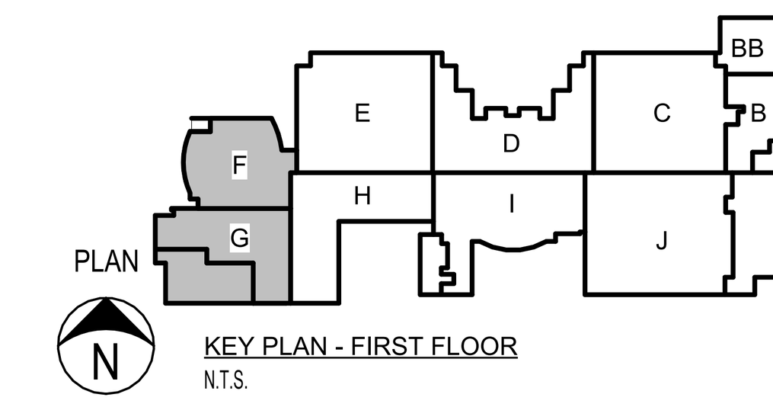
1 HIGH ROOF FRAMING PLAN - AREA G
1/8" = 1'-0"



2 HIGH ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"

STEEL ROOF FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. " DECK / TYPE 1 " (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 1.
   TOS ELEVATION AT ROOF DECKS ARE AT BOD, TYP, UON.
   FOR DECK TYPE INFORMATION **RE: 5/S101**
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP.
   COORDINATE EXACT LOCATION OF ALL MEP UNITS WITH MEP.
   FOR FRAMING AROUND ROOF OPENINGS RE
4. " 350# — — 350# " (EXAMPLE) INDICATES A 350 PLF PIPE RUN BELOW TO BE SUPPORT BY THE STRUCTURE ABOVE.
   G.C. TO COORDINATE FINAL PIPE RUN LOCATIONS WITH MEP DRAWINGS
   ALL PIPE RUNS INDICATED IN THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY.
   FOR ADDITIONAL INFORMATION **RE: 17 / S601** & **RE: 16 / S601**
5. INDICATES L3X3X1/4 KICKERS AT MIDSPAN (U.N.O.) EXTENDING FROM BOTTOM FLANGE TO TOP FLANGE OF ADJACENT JOIST **RE: 6/S702**
6. PROVIDE L3X3X1/4 KICKER AT MID SPAN OF ALL BEAMS DENOTED WITH (*).
7. " KP1 " (EXAMPLE) INDICATES KNEE BRACE TYPE **RE: 11 / S501**
8. JOISTS LABELED WITH "SP" SHALL BE DESIGNED TO SUPPORT ADDITIONAL CONCENTRATED LOADS INDICATED ON PLAN OR IN DETAILS



KEY PLAN - FIRST FLOOR
N.T.S.

Revision /	Date	
1	11/20/2024	Addendum #2

Project:
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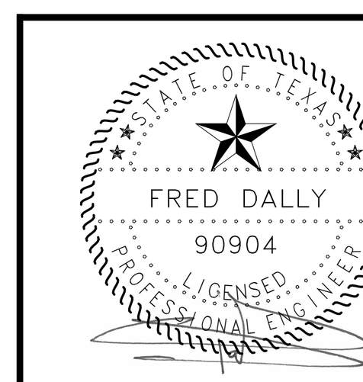

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HIGH ROOF FRAMING PLAN - AREA G&F

PACKAGE | VOLUME

Job No.: 01818-05-01
Drawn By: MS
Date: 11/20/24
Sheet No.: IF/BID
S203A

11/21/2024 10:45:37 AM
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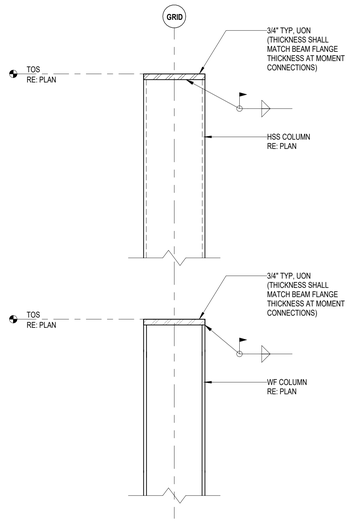
STRUCTURAL STEEL COLUMN SCHEDULE

MARK	COLUMN TYPE	BASEPLATE TYPE	BASEPLATE ELEVATION	
C1	HSS8X8X1/2	BP1	- 0'-6 1/2"	
C2	HSS10X10X1/2	BP1	- 0'-6 1/2"	1
C3	HSS6X6X1/2			HANGER
C4	HSS3X3X3/8			CONCEALED HSS POST CONN.



BASEPLATE SCHEDULE

MARK	TYPE	DIMENSIONS					ANCHOR RODS				WELD
		B (IN)	N (IN)	tp (IN)	X (IN)	Z (IN)	#	Ø (IN)	P (IN)	L (IN)	W (IN)
BP1	A	18	18	1			4	1	6	24	5/16
BP2	A	18	18	1 1/2			4	1 1/2		24	1/2
BP3	B	19	19	1			4	1		24	5/16
BP4	C	18	18	1			5	1		24	5/16

STRUCTURAL STEEL COLUMN GENERAL NOTES:

1. PROVIDE STRUCTURAL STEEL W SHAPES CONFORMING TO ASTM 992, GRADE 50.
2. PROVIDE STRUCTURAL STEEL FOR HSS COLUMNS CONFORMING TO ASTM A500, GRADE B.
3. PROVIDE STEEL FOR STIFFNER PLATES, CONNECTION PLATES AND ANGLES CONFORMING TO ASTM A36.
4. SAW OR MILL SURFACES NOTED FIN. (FINISHED) FOR TRUE AND FULL CONTACT.
5. USE E70XX WELDING ELECTRODES FOR ALL WELDS, UNLESS OTHERWISE NOTED.
6. PROVIDE WEB DOUBLER PLATES IF REQUIRED TO SATISFY CONNECTION DESIGN AND DEMANDS

BASE PLATE GENERAL NOTES:

1. PROVIDE STEEL FOR BASE PLATES CONFORMING TO ASTM A36.
2. PROVIDE HOLES IN BASE PLATES IN ACCORDANCE WITH AISC 14TH EDITION.
3. PROVIDE ANCHOR RODS CONFORMING TO ASTM F1554, GRADE 55 WELDABLE.
4.

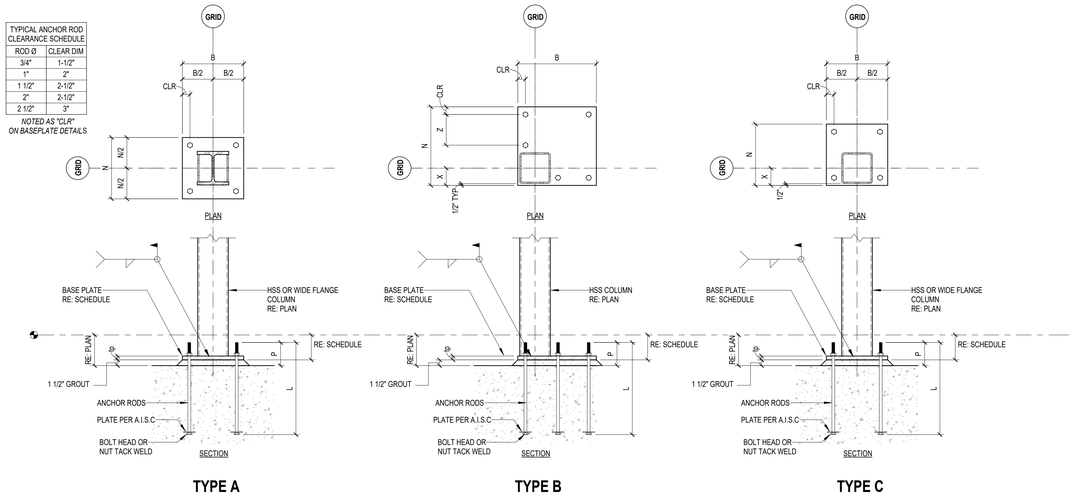
1 COLUMN SCHDULE (LIST)
3/4" = 1'-0"

2 COLUMN CAP PLATE
1 1/2" = 1'-0"

3 BASEPLATE SCHEDULE
3/4" = 1'-0"

TYPICAL ANCHOR ROD CLEARANCE SCHEDULE	
ROD Ø	CLEAR DIM
3/4"	1-1/2"
1"	2"
1 1/2"	2-1/2"
2"	2-1/2"
2 1/2"	3"

NOTED AS "CLR" ON BASEPLATE DETAILS



4 BASEPLATE DETAILS
3/4" = 1'-0"

5 SECTION AT CONCEALED HSS POST CONN.
1 1/2" = 1'-0"

Revision /	Date	
1	11/20/2024	Addendum #2

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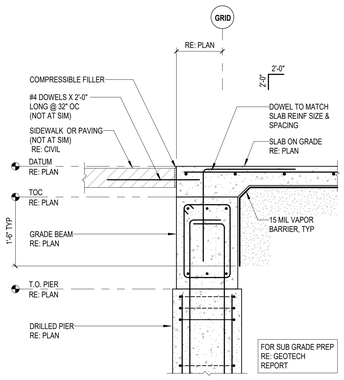
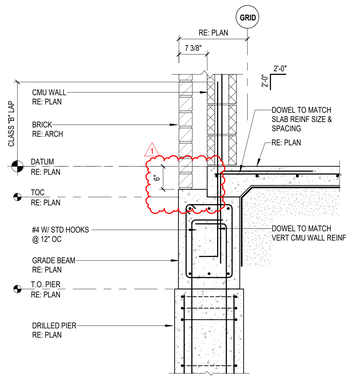
COLUMN AND BASEPLATE SCHEDULE

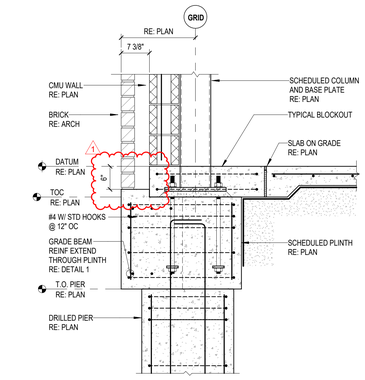
PACKAGE	VOLUME
Job No. 01818-05-01	Sheet No. IF/BID S302
Drawn By: JT	
Date: 11/20/24	



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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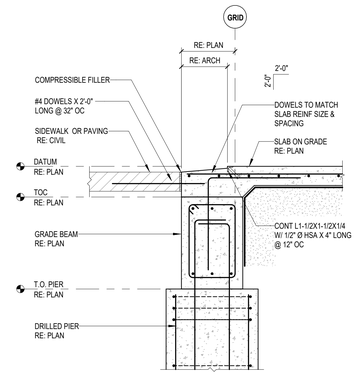
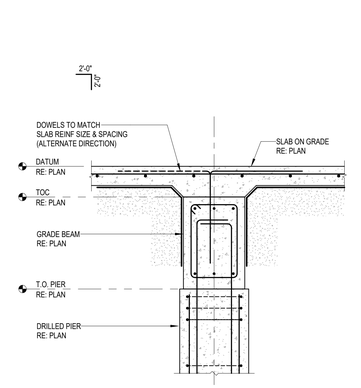
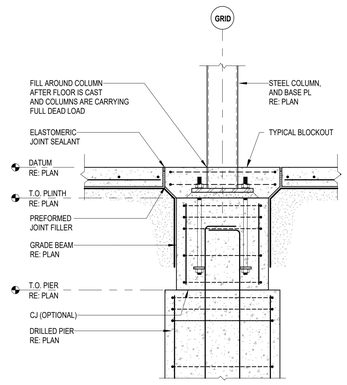


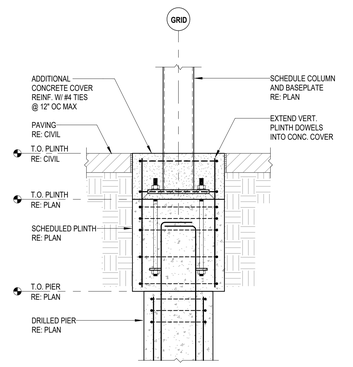
4 SECTION
3/4" = 1'-0"



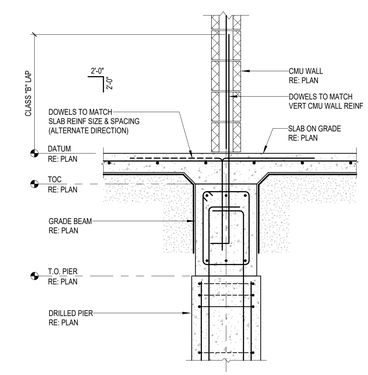
5 SECTION
3/4" = 1'-0"



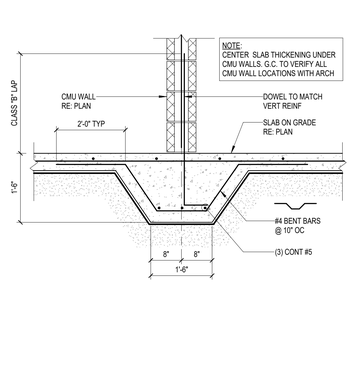
6 SECTION
3/4" = 1'-0"



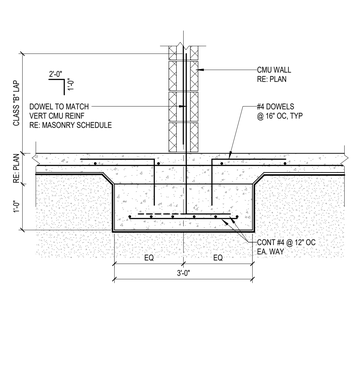
7 SECTION
3/4" = 1'-0"



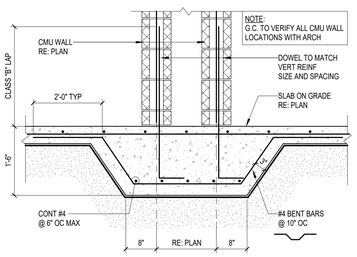
8 SECTION
3/4" = 1'-0"



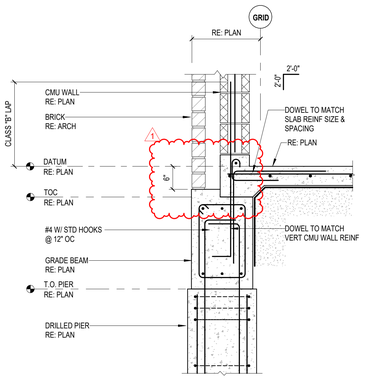
9 SECTION
3/4" = 1'-0"



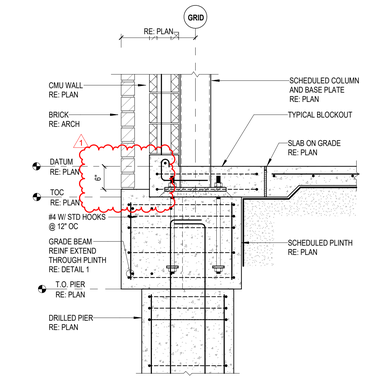
10 SECTION
3/4" = 1'-0"



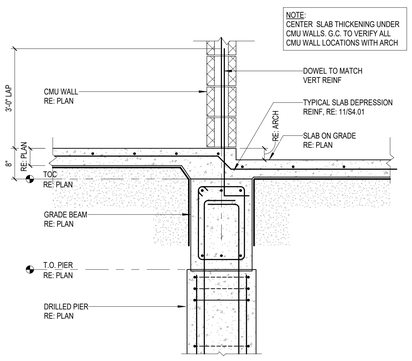
11 SECTION
3/4" = 1'-0"



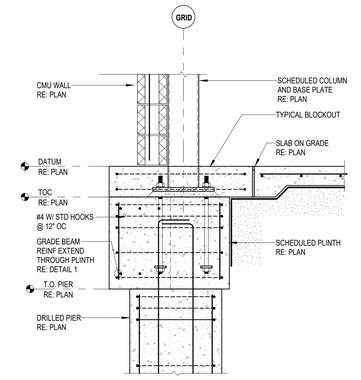
12 SECTION
3/4" = 1'-0"



13 SECTION
3/4" = 1'-0"



14 SECTION
3/4" = 1'-0"



15 SECTION
3/4" = 1'-0"

Revision /	Date	
1	11/20/2024	Addendum #2

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS & RENOVATIONS
FOR
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FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER
11/20/2024

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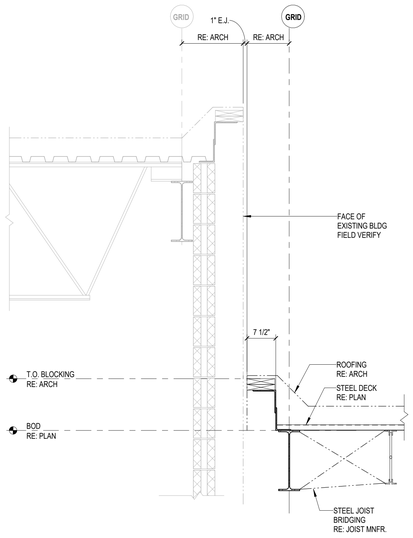
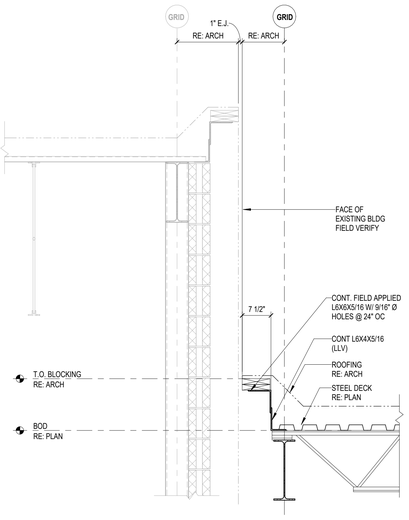
SOG @ GB

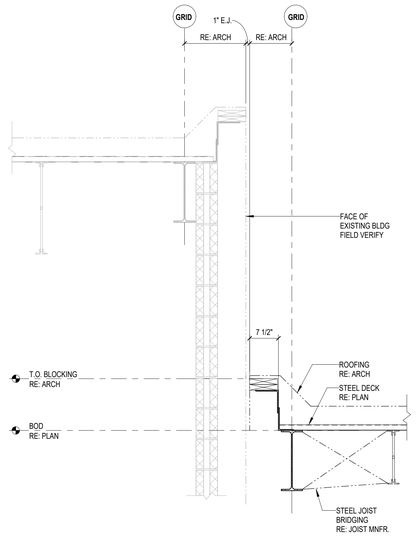
PACKAGE	VOLUME
Job No. 01818-05-01	Sheet No. IF/BID S403
Drawn By: RWW	
Date: 11/20/24	



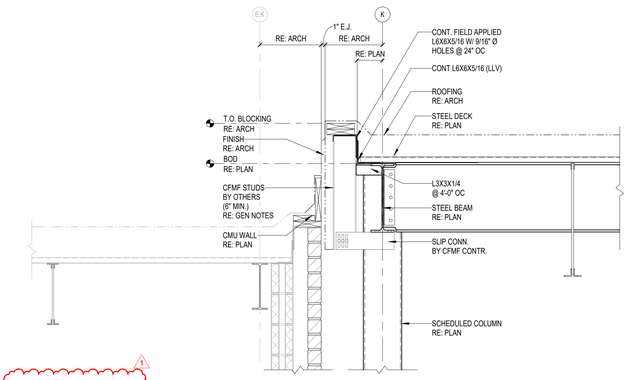
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION
3/4" = 1'-0"



3 ROOF SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

5 ROOF SECTION
3/4" = 1'-0"

6 ROOF SECTION
3/4" = 1'-0"

Revision /	Date	
1	11/20/2024	Addendum #2

Project:

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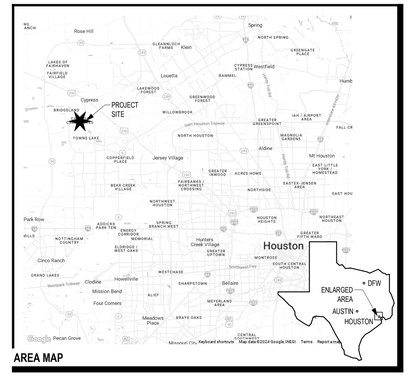
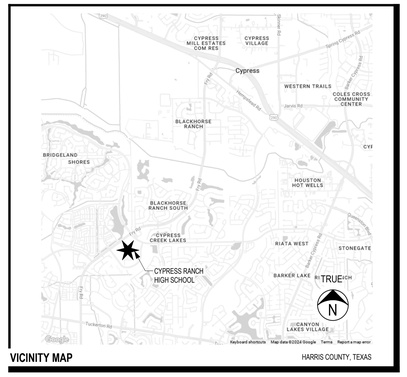
STEEL ROOF DETAILS

PACKAGE	VOLUME
Job No. 01818-05-01	Sheet No. IFIBID S603
Drawn By: RHW	
Date: 11/20/24	



AREA MAP



VICINITY MAP

HARRIS COUNTY, TEXAS

Revision /	Date	
1	11/14/2024	ADDENDUM 01
2	11/20/2024	ADDENDUM 02

Project:

2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT
JUAN F. HUCKABEE
TX 24614
STATE OF TEXAS
11/20/2024

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GENERAL DATA

Job No.	Sheet No.
01818-05-01	G1.02
Drawn By: ZFA	
Date: 11/11/2024	

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

ABBREVIATIONS

SHEET INDEX	
GENERAL	
G1.01	COVER SHEET
G1.02	GENERAL DATA
G2.01	CODE ANALYSIS PLAN
G2.02	ENLARGED CODE ANALYSIS
G2.03	HARRIS COUNTY FIRE CODE DESIGN AND COMPLIANCE REVIEW SHEET
G2.04	FIRE PROOFING PLAN
G3.01	EXTERIOR WALL, INTERIOR PARTITION, & ROOF TYPES
G3.02	TYPICAL INTERIOR PARTITION AND PENETRATION DETAILS
G3.03	TYPICAL WALL PENETRATIONS - ACOUSTICAL
G4.01	TEA COMPLIANCE
G5.01	SCHEDULE OF MATERIALS AND COLORS
G6.01	MASTER PLAN - PHASING SITE PLAN
G6.02	MASTER PLAN - PHASING FIRST FLOOR
G6.03	MASTER PLAN - PHASING SECOND FLOOR
CIVIL	
C0.01	TOPOGRAPHIC SURVEY 1 OF4
C0.02	TOPOGRAPHIC SURVEY 2 OF 4
C0.03	TOPOGRAPHIC SURVEY 3 OF 4
C0.04	TOPOGRAPHIC SURVEY 4 OF 4
C1.00	FIRE ACCESS PLAN
C1.01	HCED REVIEW SHEET
*C1.02	DETENTION POND HCPID EXPRESS REVIEW SHEET (FOR REFERENCE ONLY)
C1.03	HCFCD REVIEW SHEET
C2.00	OVERALL CIVILSITE PLAN
C3.01	PARKING - DEMOLITION PLAN SHEET 1 OF 4
C3.02	PARKING - DEMOLITION PLAN SHEET 2 OF 4
C3.03	PARKING - DEMOLITION PLAN SHEET 3 OF 4
C3.04	PARKING - DEMOLITION PLAN SHEET 4 OF 4
C4.01	PARKING - STRIPING SHEET 1 OF 4
C4.02	PARKING - STRIPING SHEET 2 OF 4
C4.03	PARKING - STRIPING SHEET 3 OF 4
C4.04	PARKING - STRIPING SHEET 4 OF 4
C5.00	FINE ARTS ADDITION - DEMOLITION PLAN
C6.00	FINE ARTS ADDITION - LAYOUT PLAN
C7.00	FINE ARTS ADDITION - PAVING PLAN
C8.00	FINE ARTS ADDITION - GRADING PLAN
C9.00	FINE ARTS ADDITION - UTILITY PLAN
C10.00	FINE ARTS ADDITION - SWPPP
C11.00	TENNIS COURTS - DEMOLITION PLAN
C12.00	TENNIS COURTS - LAYOUT PLAN
C13.00	TENNIS COURTS - PAVING PLAN
C14.00	TENNIS COURTS - GRADING PLAN
C15.00	TENNIS COURTS - UTILITY PLAN
C16.00	TENNIS COURTS - SWPPP
C17.00	ATHLETICS STORAGE BUILDING - DEMOLITION PLAN
C18.00	ATHLETICS STORAGE BUILDING - LAYOUT PLAN
C19.00	ATHLETICS STORAGE BUILDING - PAVING AND GRADING PLAN
C20.00	ATHLETICS STORAGE BUILDING - UTILITY PLAN
C21.00	ATHLETICS STORAGE BUILDING - SWPPP
C22.00	DETENTION POND - LAYOUT PLAN
C23.00	SWPPP DETAILS
C23.01	MISCELLANEOUS DETAILS SHEET 1 OF 3
C23.02	MISCELLANEOUS DETAILS SHEET 2 OF 3
C23.03	MISCELLANEOUS DETAILS SHEET 3 OF 3
C24.01	DETENTION POND SERVICE AREA (FOR REFERENCE ONLY)
C24.02	DETENTION BASIN LAYOUT (FOR REFERENCE ONLY)
C24.03	STORM WATER QUALITY DETAILS (FOR REFERENCE ONLY)
C24.04	FLOATABLES COLLECTION SCREEN DETAIL (FOR REFERENCE ONLY)
LANDSCAPE & IRRIGATION	
IR1.01	IRRIGATION PLAN
IR2.01	IRRIGATION DETAILS
ARCHITECTURAL SITE	
AS1.01	SITE DEMOLITION PLAN
AS1.02	ARCHITECTURAL SITE PLAN
AS1.03	ENLARGED SITE PLAN - FINE ARTS & ATHLETICS
AS1.04	SITE PLAN DETAILS
AS1.05	CANOPY PLANS AND DETAILS
AS2.01	ATHLETICS STORAGE - FLOOR PLAN, ELEVATIONS AND BUILDING SECTIONS
AS2.02	ATHLETICS STORAGE - WALL SECTIONS AND DETAILS
ARCHITECTURAL DEMOLITION	
AD1.01	AREA A1 - DEMOLITION PLAN - FIRST FLOOR
AD1.02	AREA B1 & BB1 - DEMOLITION PLAN - FIRST FLOOR
AD1.03	AREA C1 - DEMOLITION PLAN - FIRST FLOOR
AD1.04	AREA D1 - DEMOLITION PLAN - FIRST FLOOR
AD1.05	AREA E1 - DEMOLITION PLAN - FIRST FLOOR
AD1.06	AREA F1 - DEMOLITION PLAN - FIRST FLOOR
AD1.07	AREA G1 - DEMOLITION PLAN - FIRST FLOOR
AD1.08	AREA H1 - DEMOLITION PLAN - FIRST FLOOR
AD1.09	AREA I1- DEMOLITION PLAN - FIRST FLOOR
AD1.10	AREA J1 - DEMOLITION PLAN - FIRST FLOOR
AD1.11	AREA B2 & BB2 - DEMOLITION PLAN - SECOND FLOOR
AD1.12	AREA C2 - DEMOLITION PLAN - SECOND FLOOR
AD1.13	AREA D2 - DEMOLITION PLAN - SECOND FLOOR
AD1.14	AREA E2 - DEMOLITION PLAN - SECOND FLOOR
AD1.15	AREA H2 & I2 - DEMOLITION PLAN - SECOND FLOOR
AD1.16	AREA J2 - DEMOLITION PLAN - SECOND FLOOR
AD1.17	MASTER - 1ST-2ND FLOOR DEMOLITION REFLECTED CEILING PLAN
AD1.18	AREA G1 - DEMOLITION RCP PLAN - FIRST FLOOR
ARCHITECTURAL	
A0.01	MASTER PLAN - FIRST FLOOR
A0.02	MASTER PLAN - SECOND FLOOR
A1.01	AREA A1 - FIRST FLOOR PLAN
A1.02	AREA B1 & BB1 - FIRST FLOOR PLAN
A1.03	AREA C1 - FIRST FLOOR PLAN
A1.04	AREA D1 - FIRST FLOOR PLAN
A1.05	AREA E1 - FIRST FLOOR PLAN
A1.06	AREA F1 - FIRST FLOOR PLAN
A1.07	AREA G1 - FIRST FLOOR PLAN
A1.08	AREA H1 - FIRST FLOOR PLAN
A1.09	AREA I1 - FIRST FLOOR PLAN
A1.10	AREA J1 - FIRST FLOOR PLAN
A1.11	AREA L1 - FIRST FLOOR PLAN
A1.12	AREA B2 & BB2 - SECOND FLOOR PLAN
A1.13	AREA C2 - SECOND FLOOR PLAN
A1.14	AREA D2 - SECOND FLOOR PLAN
A1.15	AREA E2 - SECOND FLOOR PLAN
A1.16	AREA H2 & I2 - SECOND FLOOR PLAN
A1.17	AREA 'J2' - SECOND FLOOR PLAN
A1.18	PLAN DETAILS

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A2.01	AREA A1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.02	AREA B1 & BB1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.03	AREA C1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.04	AREA D1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.05	AREA E1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.06	AREA F1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.07	AREA G1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.08	AREA H1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.09	AREA I1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.10	AREA J1 - REFLECTED CEILING PLAN - FIRST FLOOR
A2.11	AREA A2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.12	AREA B2 & BB2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.13	AREA C2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.14	AREA D2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.15	AREA E2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.16	AREA F2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.17	AREA H2 & I2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.18	AREA J2 - REFLECTED CEILING PLAN - SECOND FLOOR
A2.19	CEILING DETAILS
A3.01	DOOR SCHEDULES AND CONFIGURATIONS
A3.02	DOOR SCHEDULES
A3.03	STOREFRONT CONFIGURATIONS & DOOR AND WINDOW DETAILS
A4.01	AREA A1 - FINISH PLAN - FIRST FLOOR
A4.02	AREA B1 & BB1 - FINISH PLAN - FIRST FLOOR
A4.03	AREA C1 - FINISH PLAN - FIRST FLOOR
A4.04	AREA D1 - FINISH PLAN - FIRST FLOOR
A4.05	AREA E1 - FINISH PLAN - FIRST FLOOR
A4.06	AREA F1 - FINISH PLAN - FIRST FLOOR
A4.07	AREA G1 - FINISH PLAN - FIRST FLOOR
A4.08	AREA H1 - FINISH PLAN - FIRST FLOOR
A4.09	AREA I1 - FINISH PLAN - FIRST FLOOR
A4.10	AREA J1 - FINISH PLAN - FIRST FLOOR
A4.11	AREA B2 & BB2 - FINISH PLAN - SECOND FLOOR
A4.12	AREA C2 - FINISH PLAN - SECOND FLOOR
A4.13	AREA D2 - FINISH PLAN - SECOND FLOOR
A4.14	AREA E2 - FINISH PLAN - SECOND FLOOR
A4.15	AREA H2 & I2 - FINISH PLAN - SECOND FLOOR
A4.16	AREA J2 - FINISH PLAN - SECOND FLOOR
A4.17	INTERIOR ELEVATIONS
A4.18	TYP INTERIOR DETAILS
A5.01	EXTERIOR ELEVATIONS
A6.01	BUILDING SECTIONS
A6.02	WALL SECTIONS
A6.03	WALL SECTION DETAILS
A7.01	ROOF PLAN - AREA F & G
A7.02	TYPICAL ROOFING DETAILS
A7.03	TYPICAL ROOFING DETAILS
A8.01	CASEWORK LEGENDS AND ELEVATIONS
A9.01	EXPANSION JOINT DETAILS
TECHNOLOGY	
T0.02	TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA G
THEATER	
TE0.00	TE - NOTES & LEGENDS
TE2.07	TE - AREA 'G1' - FIRST FLOOR PLAN
TE3.00	TE - SECTIONS AND ELEVATIONS
TE4.07	TL - AREA 'G1' - FIRST FLOOR REFLECTED CEILING PLAN
TL0.00	TL - GENERAL NOTES & LEGENDS
TL0.01	TL - SCHEDULES
TL0.02	TL - SCHEDULES
TL2.06	TL - AREA 'F1' - FIRST FLOOR PLAN
TL2.07	TL - AREA 'G1' - FIRST FLOOR PLAN
TL3.00	TL - SECTIONS AND ELEVATIONS
TL4.07	TL - AREA 'G1' - FIRST FLOOR REFLECTED CEILING PLAN
TL7.01	TL - AREA 'F1' - SCHEMATIC
TL7.02	TL - AREA 'G1' - SCHEMATIC

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INDEX OF SHEETS

DIVISION 3 - CONCRETE
CONCRETE FINISHING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
COS01	CONCRETE, SEALED									
COP01	CONCRETE, POLISHED									

1 **DIVISION 4 - MASONRY**
UNIT MASONRY

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BRK01	BRICK	UPCHURCH KIMBROUGH	INTERSTATE BRICK	TERRA COTTA	KING			FIELD		BRIAN O'NEAL BRIANO@UPCHURCHKIMBROUGH.COM 713-569-4970
BRK02	BRICK	ACME	ACME BRICK	DOESKIN	KING			ACCENT		KELLEY MOORE KAMOORE@BRICK.COM 346-254-8394
BRK03	BRICK	ACME	ACME BRICK	GLACIER	KING			ACCENT		KELLEY MOORE KAMOORE@BRICK.COM 346-254-8394

DIVISION 5 - METALS
METAL FABRICATIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	EXISTING RAILINGS									

DIVISION 6 - WOOD-PLASTICS
FIBERGLASS REINFORCED PANELING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CR	CHAIR RAIL									

DIVISION 7 - THERMAL AND MOISTURE PROTECTION
ROOFING AND SIDING PANELS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL WALL PANEL									

FLASHING AND SHEET METAL

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL FLASHING, COPING, & TRIM									
	GUTTERS									
	DOWNSPOUTS									
SF	SOFFITS									

DIVISION 8 - OPENINGS
DOORS AND FRAMES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	ALUMINUM DOORS & FRAMES			CLEAR ANODIZED						
	ALUMINUM WINDOWS			CLEAR ANODIZED						
	VISIBLE DOOR HARDWARE									
	HOLLOW METAL DOORS			REF FINISH PLANS						
	HOLLOW METAL FRAMES			REF FINISH PLANS						
	SOLID CORE DOORS (PLASTIC LAMINATE)			PL01					MATCH PL01	
	SOLID CORE DOORS AT BLACK BOX (PLASTIC LAMINATE)			PL04					MATCH PL04	
	OVERHEAD DOORS									

1 **DIVISION 9 - FINISHES**
TILING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
TP01	TILE, PORCELAIN	DALTILE	HARMONIST	TRANQUIL HM21	12"x12"	MATTE			FIELD	FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM 832-652-6858
TP02	TILE, PORCELAIN	DALTILE	HARMONIST	COMPOSURE HM23	12"x12"	MATTE			ACCENT	FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM 832-652-6858
TP03	TILE, PORCELAIN	CROSSVILLE	RETRO ACTIVE 2.0	ROYAL NAVY	12"x12"	UNPOLISHED			ACCENT	DIANE SMITH DIANE.SMITH@AHFPRODUCTS.COM 713-875-5493
BTP01	BASE TILE, PORCELAIN	DALTILE	HARMONIST	TRANQUIL HM21	4"x12" BULLNOSE	MATTE			BASE, USE w/ TP01	FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM 832-652-6858

CEILINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
L1	ACOUSTICAL TILE CEILINGS	ARMSTRONG		WHITE	24"x24"			CORRIDORS & GENERAL USE	NRC 0.55	
L1 (BLACK)	ACOUSTICAL TILE CEILINGS	ARMSTRONG		BLACK	24"x24"			BLACK BOX VESTIBULE, BLACK BOX OFFICE, BLACK BOX CONTROL ROOM	w/ BLACK GRID	
L1-T	ACOUSTICAL TILE CEILINGS	ARMSTRONG		WHITE	24"x24"				NEW TILE IN EXISTING GRID	
L3	ACOUSTICAL TILE CEILINGS	ARMSTRONG	FINE FISSURED 1810	WHITE	24"x24"			CLASSROOMS	NRC 0.70	
L3 (BLACK)	ACOUSTICAL TILE CEILINGS	ARMSTRONG	FINE FISSURED 1810	BLACK	24"x24"			BLACK BOX	w/ BLACK GRID	
L4	ACOUSTICAL TILE CEILINGS	ARMSTRONG	CLEAN ROOM 868	WHITE	24"x24"			FOODSERVICE	NRC 0.55	
L7	ACOUSTICAL TILE CEILINGS	ARMSTRONG	FINE FISSURED 1754	WHITE	24"x24"			ABSORBTIVE (GEN USE)	NRC 0.75	
GYP										

2 **WOOD FLOORING**

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WMS	WOOD FLOORING	SWANSON GROUP	PLYRON	1/2" THICKNESS	4'x8'	PNT06		BLACK BOX		

RESILIENT FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BR01	BASE, RUBBER	ROPPE		BLACK BROWN	4"					
BR02	BASE, RUBBER	ROPPE		BLACK BROWN	4 1/2"					
BRV01	BASE, RUBBER VENTED	TARKETT		MATCH BLACK BROWN						
LVT01	LUXURY VINYL TILE	MOHAWK	CHROMASCOPE	230 SUMMER SUEDE	12"x24"		HERRINGBONE		MAIN FIELD	ALLIE MARKS ALLIE_MARKS@MOHAWKIND.COM 346-732-6649
LVT02	LUXURY VINYL TILE	MOHAWK	CHROMASCOPE	270 PRAIRIE WIND	12"x24"		HERRINGBONE		ACCENT	ALLIE MARKS ALLIE_MARKS@MOHAWKIND.COM 346-732-6649
LVT03	LUXURY VINYL TILE	MOHAWK	CHROMASCOPE	250 DUSTY TRAIL	12"x24"		HERRINGBONE		ACCENT	ALLIE MARKS ALLIE_MARKS@MOHAWKIND.COM 346-732-6649
LVT04	LUXURY VINYL TILE	MOHAWK	CHROMASCOPE	980 WINTERFELL	12"x24"		HERRINGBONE	BLACK BOX VESTIBULE, CONTROL ROOM		ALLIE MARKS ALLIE_MARKS@MOHAWKIND.COM 346-732-6649
LVT05	LUXURY VINYL TILE	MOHAWK	MOLVENO STONES	PERFECT GREIGE	11.75" x 23.75"			PRESS BOXES	CLICK INSTALLATION	ALLIE MARKS ALLIE_MARKS@MOHAWKIND.COM 346-732-6649
VSF02	VINYL SHEET FLOOR	TARKETT	IQ GRANIT	DARK SAND				ACCENT		STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258
VSF01	VINYL SHEET FLOOR	TARKETT	IQ GRANIT	WARM SAND				FIELD		STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258

CARPETING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CPT01	CARPET, ROLLED	TARKETT	COLORMAP 11130	INDIAN INK 42609	6'W				POWERBOND CUSHION RS	STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258
CPT02	CARPET, ROLLED	TARKETT	FABRICATE 11498	FRENCH NAVY 36204	6'W			ALTERNATING STEPS IN AUDITORIUM	POWERBOND CUSHION RS	STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258
WOC	CARPET, WALK OFF	TARKETT	ASSERTIVE ACTION		6'W			1120 DRILL TEAM ROOM DOOR TO EXTERIOR	POWERBOND CUSHION RS	STEPHANIE FOSTER STEPHANIE.FOSTER@TARKETT.COM 281-702-5258

ACOUSTIC TREATMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AP01	ACOUSTICAL PANEL, FABRIC	GUILFORD OF MAINE	ANCHORAGE	MIDNIGHT 2025				PRACTICE ROOMS		

PAINTING AND COATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PNT01	PAINT	SHERWIN WILLIAMS		SW 6119 ANTIQUE WHITE				CLASSROOM MAIN FIELD		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT02	PAINT	SHERWIN WILLIAMS		SW 6371 VANILLIN				CORRIDORS (UPPER)		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT03	PAINT	SHERWIN WILLIAMS		SW 6157 FAVORITE TAN				CORRIDORS (MIDDLE)		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT04	PAINT	SHERWIN WILLIAMS		SW 6109 HOPSACK				CORRIDORS (LOWER)		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT05	PAINT	SHERWIN WILLIAMS		SW 7602 INDIGO BATIK				INTERIOR HM FRAMES		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT06	PAINT	SHERWIN WILLIAMS		SW 6993 BLACK OF NIGHT				BLACK BOX		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT07	PAINT	SHERWIN WILLIAMS						CLASSROOM ACCENT		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT08	PAINT	SHERWIN WILLIAMS						EXTERIOR HM DOORS & FRAMES		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT09	PAINT	SHERWIN WILLIAMS		NOT USED				NOT USED		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292
PNT10	PAINT	SHERWIN WILLIAMS		SW 6748 GREENS				TENNIS COURT BEAT WALL		ZAK R. GALLA ZAKARY.R.GALLA@SHERWIN.COM 281-904-5292

1

DIVISION 10 - SPECIALTIES
INFORMATION SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	INTERIOR ROOM SIGNS								MATCH EXISTING	

STORAGE SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	LOCKERS							ART ROOM		

EXTERIOR SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	PRE-MANUFACTURED CANOPIES									

DIVISION 11 - EQUIPMENT
ENTERTAINMENT EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT

ATHLETIC EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT

DIVISION 12 - FURNISHINGS
AUDITORIUM FURNISHINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	SOUND CONTROL DESK	HSA ROLL TOPS		CUSTOM STAIN MATCH TO PL01				AUDITORIUM	COORDINATE WITH A/V DRAWINGS	

WINDOW TREATMENTS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	WINDOW BLINDS			MATCH EXISTING						
	WINDOW BLINDS			BLACK				BLACK BOX CONTROL ROOM & BLACK BOX OFFICE		

ARCHITECTURAL CASEWORK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PL01	PLASTIC LAMINATE	WILSONART		BILTMORE CHERRY 7924K		07 AEON SCRATCH RESISTANT		UPPER & LOWER CABINETS		EMILY MERCER EMILY.MERCER@WILSONART.COM 945-536-1040
PL02	PLASTIC LAMINATE	FORMICA		NAVY GRAFIX 7018		58 MATTE		COUNTERTOPS		EMILY MERCER EMILY.MERCER@WILSONART.COM 945-536-1040
PL03	PLASTIC LAMINATE	WILSONART						SIGNAGE		EMILY MERCER EMILY.MERCER@WILSONART.COM 945-536-1040
PL04	PLASTIC LAMINATE	WILSONART		BLACK 1595		MATTE		DOORS & CABINETS AT BLACK BOX CONTROL ROOM & OFFICE CASEWORK		EMILY MERCER EMILY.MERCER@WILSONART.COM 945-536-1040
PL05	PLASTIC LAMINATE	WILSONART		BLACKBIRD 5024				COUNTERTOPS AT BLACK BOX CONTROL ROOM & OFFICE		EMILY MERCER EMILY.MERCER@WILSONART.COM 945-536-1040
QTZ01	QUARTZ SURFACING	CAMBRIA		FAIRBOURNE				ART ROOM COUNTERTOPS		

MULTIPLE SEATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT

REFER TO PROJECT SPECIFICATIONS SECTION 09 9000 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE; FINISH COLOR AND MATERIAL SIZE AS NOTED

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

AL - ALUMINUM

AP - ACOUSTICAL PANELS

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS AND RISERS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

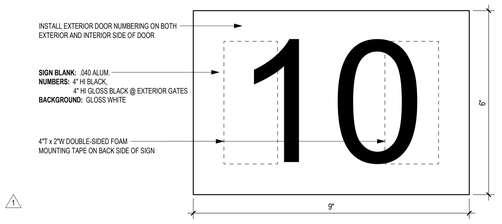
WMS - MASONITE WOOD FLOORING

WOM - WALK-OFF MAT

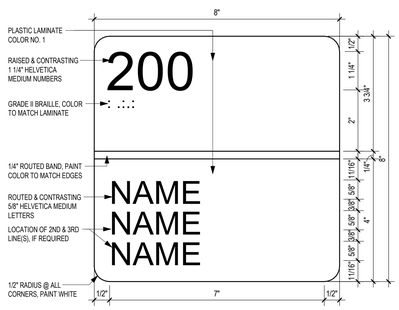
WOT - WALK-OFF TILE

(NOT ALL ABBREVIATIONS MAY BE USED)

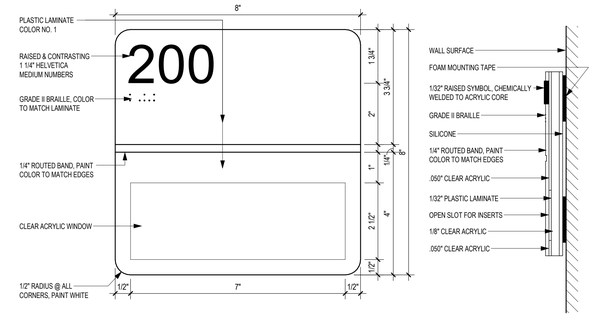
FINISH KEY



1 **3** SIGN TYPE EXTERIOR DOOR/ GATE
6" = 1'-0"



2 **SIGN TYPE B**
6" = 1'-0"



1 **SIGN TYPE A**
6" = 1'-0"

Revision /	Date
1	11/14/2024 ADDENDUM 01
2	11/20/2024 ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT — BRIAN K. HUCKABEE — TX 24614 — STATE OF TEXAS
11/20/2024

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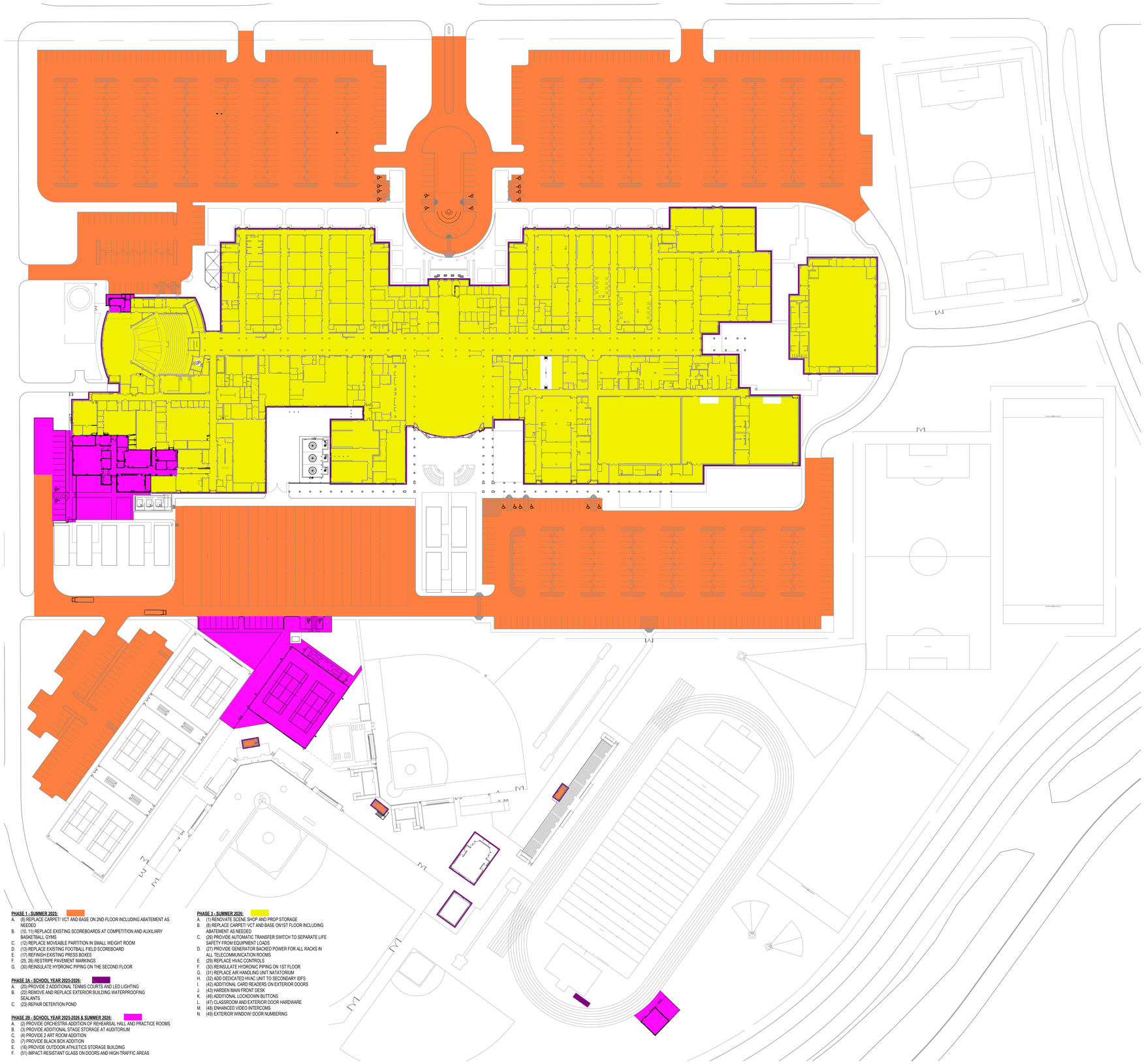
SCHEDULE OF MATERIALS AND COLORS

Job No.	Sheet No.
01818-05-01	G5.01
Drawn By: MJ, AA	
Date: 11/11/2024	



PHASE 1 - SUMMER 2025:
- A. (9) REPLACE CARPET/ VCT AND BASE ON 2ND FLOOR INCLUDING ABATEMENT AS NEEDED
- B. (10, 11) REPLACE EXISTING SCOREBOARDS AT COMPETITION AND AUXILIARY BASKETBALL GYMS
- C. (12) REPLACE MOVEABLE PARTITION IN SMALL WEIGHT ROOM
- D. (13) REPLACE EXISTING FOOTBALL FIELD SCOREBOARD
- E. (17) REFINISH EXISTING PRESS BOXES
- F. (25, 26) RESTRIPE PAVEMENT MARKINGS
- G. (30) REINSULATE HYDRONIC PIPING ON THE SECOND FLOOR

PHASE 2A - SCHOOL YEAR 2025-2026:
- A. (20) PROVIDE 2 ADDITIONAL TENNIS COURTS AND LED LIGHTING
- B. (22) REMOVE AND REPLACE EXTERIOR BUILDING WATERPROOFING SEALANTS
- C. (23) REPAIR DETENTION POND

PHASE 2B - SCHOOL YEAR 2025-2026 & SUMMER 2026:
- A. (2) PROVIDE ORCHESTRA ADDITION OF REHEARSAL HALL AND PRACTICE ROOMS
- B. (3) PROVIDE ADDITIONAL STAGE STORAGE AT AUDITORIUM
- C. (4) PROVIDE 2 ART ROOM ADDITION
- D. (7) PROVIDE BLACK BOX ADDITION
- E. (16) PROVIDE OUTDOOR ATHLETICS STORAGE BUILDING
- F. (51) IMPACT-RESISTANT GLASS ON DOORS AND HIGH-TRAFFIC AREAS

PHASE 3 - SUMMER 2026:
- A. (1) RENOVATE SCENE SHOP AND PROP STORAGE
- B. (8) REPLACE CARPET/ VCT AND BASE ON1ST FLOOR INCLUDING ABATEMENT AS NEEDED
- C. (26) PROVIDE AUTOMATIC TRANSFER SWITCH TO SEPARATE LIFE SAFETY FROM EQUIPMENT LOADS
- D. (27) PROVIDE GENERATOR BACKED POWER FOR ALL RACKS IN ALL TELECOMMUNICATION ROOMS
- E. (29) REPLACE HVAC CONTROLS
- F. (30) REINSULATE HYDRONIC PIPING ON 1ST FLOOR
- G. (31) REPLACE AIR HANDLING UNIT NATATORIUM
- H. (32) ADD DEDICATED HVAC UNIT TO SECONDARY IDFS
- I. (42) ADDITIONAL CARD READERS ON EXTERIOR DOORS
- J. (43) HARDEN MAIN FRONT DESK
- K. (46) ADDITIONAL LOCKDOWN BUTTONS
- L. (47) CLASSROOM AND EXTERIOR DOOR HARDWARE
- M. (48) ENHANCED VIDEO INTERCOMS
- N. (49) EXTERIOR WINDOW/ DOOR NUMBERING

1 MASTER PLAN - PHASING - SITE PLAN
1/64" = 1'-0"

Revision /	Date	
1	11/20/2024	ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
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REGISTERED ARCHITECT
BRIAN F. WISE
TX 24614
STATE OF TEXAS
11/20/2024

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MASTER PLAN - PHASING SITE PLAN

Job No.	Sheet No.
01815-05-01	G6.01
Drawn By: PR	
Date: 11/11/2024	

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PHASE 1 - SUMMER 2025:
- A. (8) REPLACE CARPET/ VCT AND BASE ON 2ND FLOOR INCLUDING ABATEMENT AS NEEDED
- B. (10, 11) REPLACE EXISTING SCOREBOARDS AT COMPETITION AND AUXILIARY BASKETBALL GYMS
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PHASE 2A - SCHOOL YEAR 2025-2026:
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PHASE 2B - SCHOOL YEAR 2025-2026 & SUMMER 2026:
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PHASE 3 - SUMMER 2026:
- A. (1) RENOVATE SCENE SHOP AND PROP STORAGE
- B. (8) REPLACE CARPET/ VCT AND BASE ON1ST FLOOR INCLUDING ABATEMENT AS NEEDED
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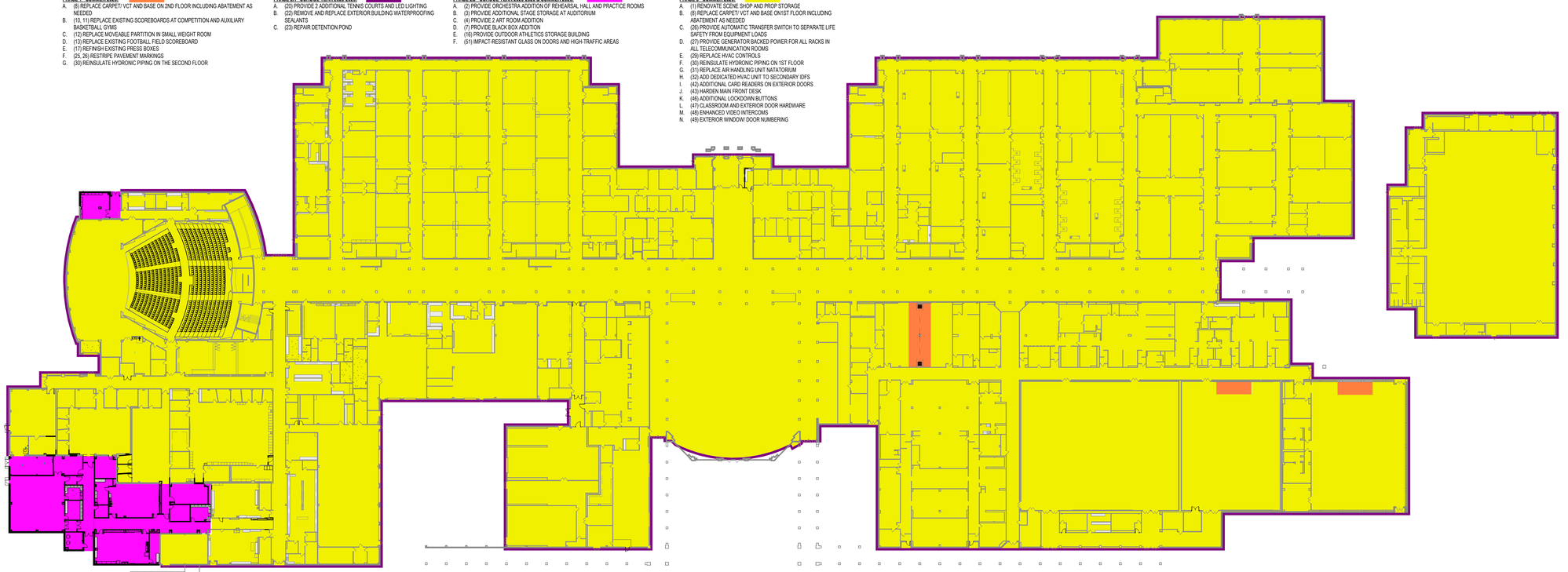

1 MASTER PLAN - PHASING - FIRST FLOOR
1" = 40'-0"

Revision /	Date	
1	11/20/2024	ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT
KAREN F. HUCKABEE
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STATE OF TEXAS
11/20/2024

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MASTER PLAN - PHASING
FIRST FLOOR

Job No.	Sheet No.
01818-05-01	G6.02
Drawn By: PR	
Date: 11/11/2024	

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PHASE 1 - SUMMER 2025:

A. (8) REPLACE CARPET/ VCT AND BASE ON 2ND FLOOR INCLUDING ABATEMENT AS NEEDED
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PHASE 2A - SCHOOL YEAR 2025-2026:

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B. (22) REMOVE AND REPLACE EXTERIOR BUILDING WATERPROOFING SEALANTS
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PHASE 2B - SCHOOL YEAR 2025-2026 & SUMMER 2026:

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PHASE 3 - SUMMER 2026:

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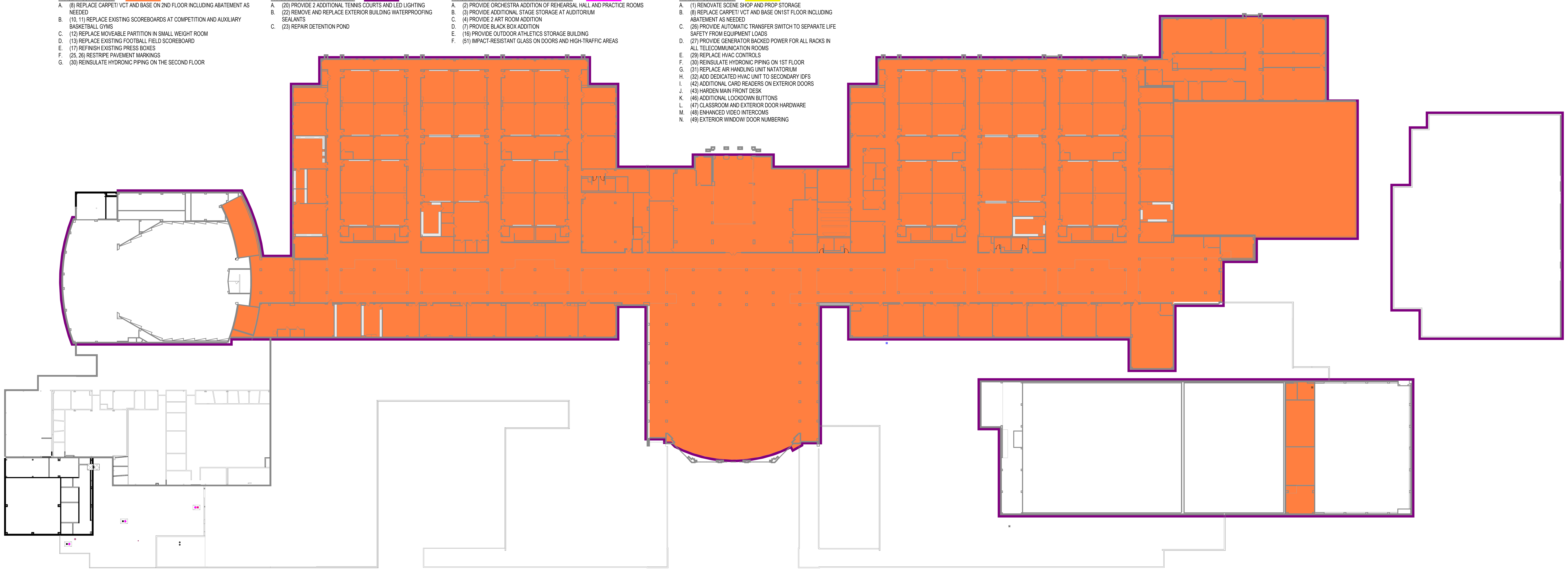
M. (48) ENHANCED VIDEO INTERCOMS
N. (49) EXTERIOR WINDOW/ DOOR NUMBERING



1 MASTER PLAN - PHASING - SECOND FLOOR
1" = 40'-0"

Revision /	Date	
1	11/20/2024	ADDENDUM 02

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT
SUSAN F. WISA
TX 24614
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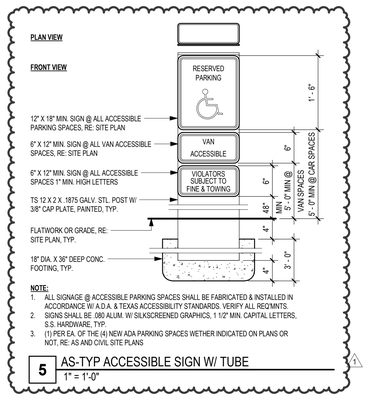
MASTER PLAN - PHASING SECOND FLOOR

Job No. 01818-05-01
Drawn By: PR
Date: 11/11/2024
Sheet No. G6.03

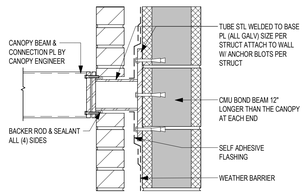
11/20/2024 6:34:28 PM
Autodesk Docs://CYPRESS-FAIRBANKS ISD - CY RANCH HS RENO/01818-05-01_Cy Ranch HS Renovation_ARCH_v23.rvt

AS - GATE SCHEDULE

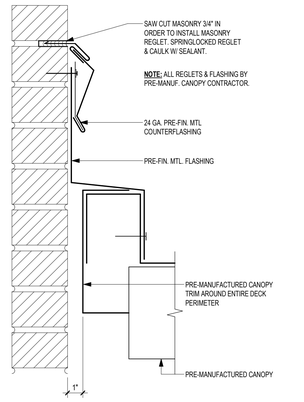
OPENING NUMBER	OPENING			DOOR					FRAME		NOTES	OPENING NUMBER
	HARDWARE SET	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE		
GA-01			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-01
GA-02			Yes	6' - 0"	6' - 0"	CL GATE (PR)			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-02
GA-03			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-03
GA-04			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-04
GA-05			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-05
GA-06			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-06
GA-07			Yes	3' - 0"	7' - 0"	CL GATE			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-07
GA-08			Yes	6' - 0"	6' - 0"	DECO MTL GATE (PR)		Yes	DECO		EGRESS GATE, ADD GATE NUMBER GRAPHIC "N"	GA-08
GA-09			Yes	4' - 0"	6' - 0"	DECO MTL GATE		Yes	DECO		EGRESS GATE, ADD GATE NUMBER GRAPHIC "M"	GA-09
GA-10			Yes	6' - 0"	6' - 0"	CL GATE (PR)			GALV.		GATE, ADD GATE NUMBER-CONFIRM LETTER W/OWNER	GA-10



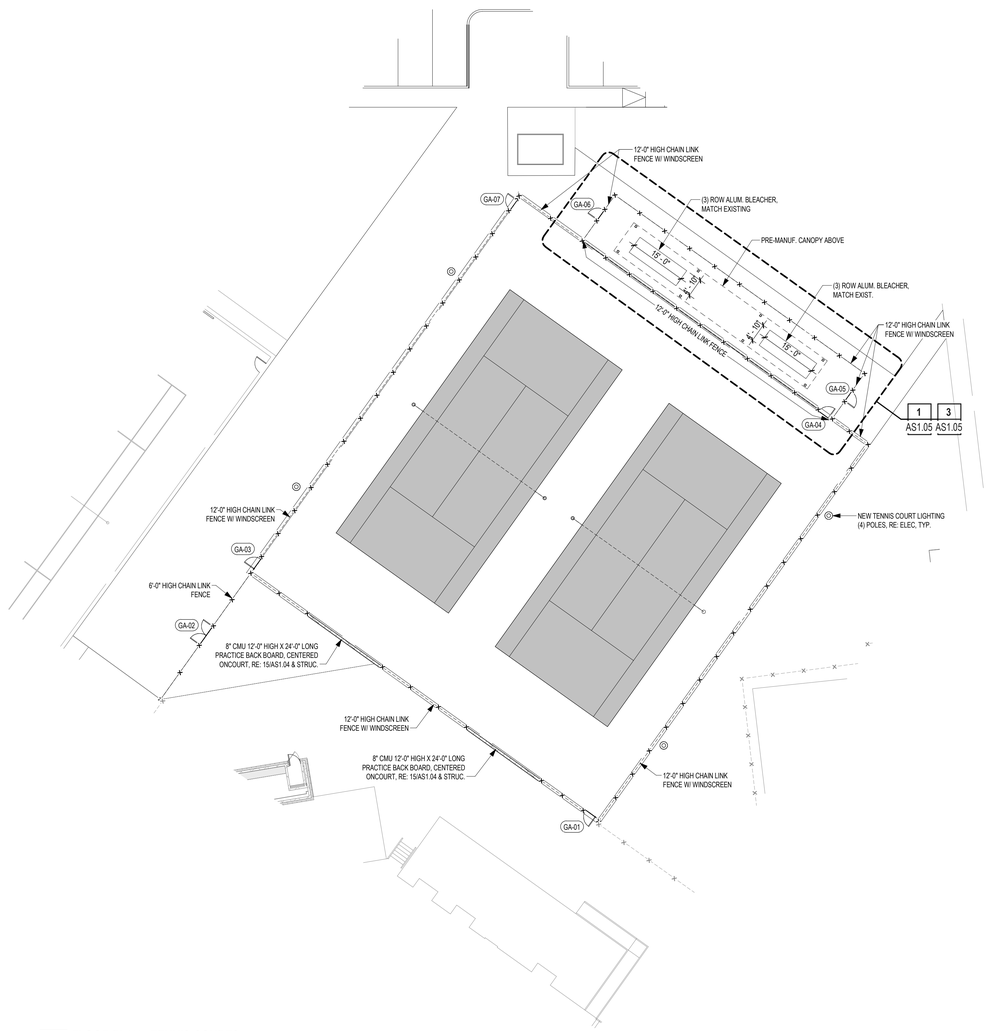
5 AS-TYP ACCESSIBLE SIGN W/ TUBE
1" = 1'-0"



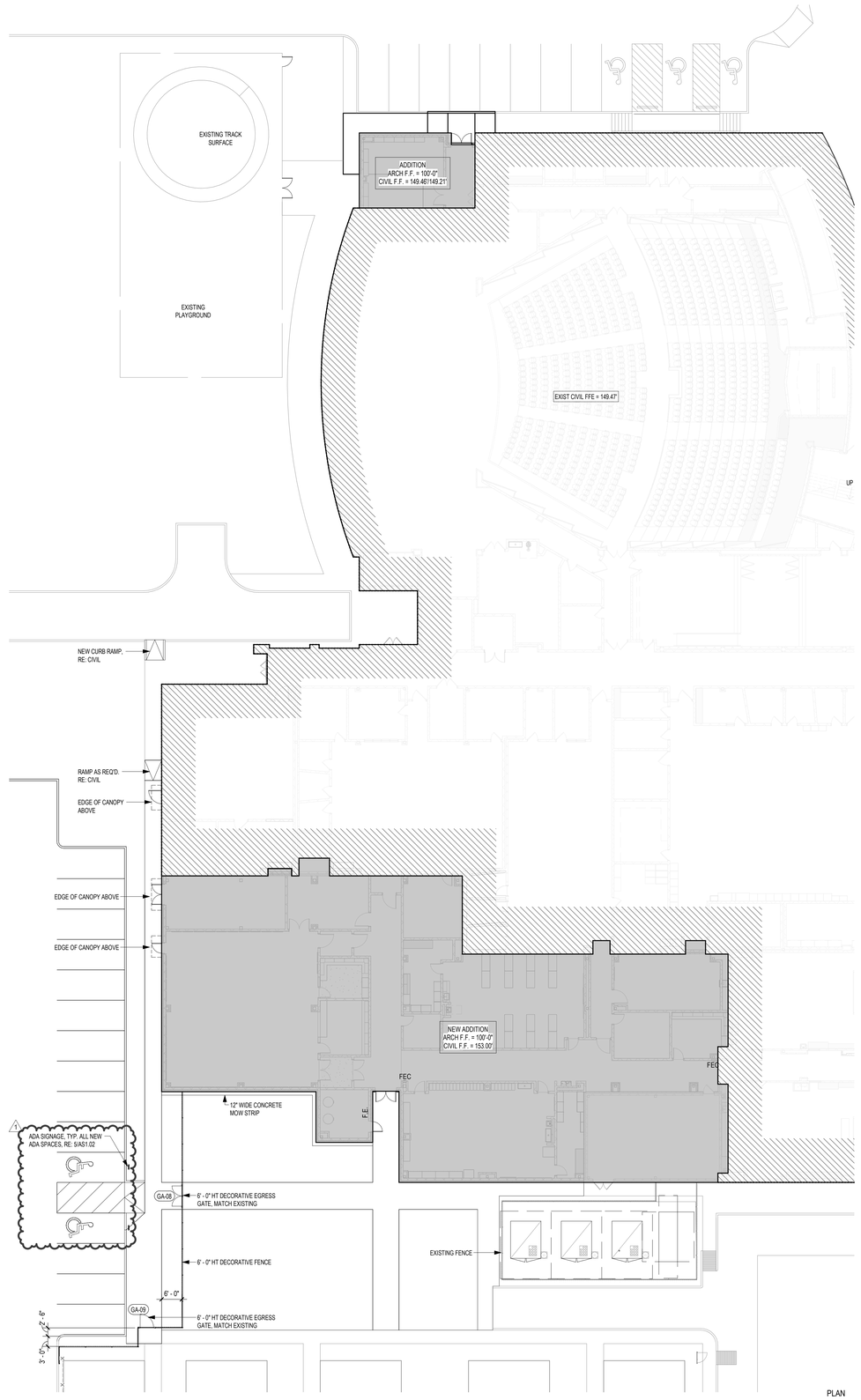
4 AS_CANOPY BOTTOM TUBE SUPPORT @ CMU
1 1/2" = 1'-0"



3 AS-CANOPY FLASHING
3" = 1'-0"



2 FLOOR PLAN - TENNIS COURTS
1/16" = 1'-0"



1 ENLARGED SITE PLAN - FINE ARTS ADDITION
1/16" = 1'-0"

PLAN TRUE N

Revision / 1 — Date 11/20/2024 — ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
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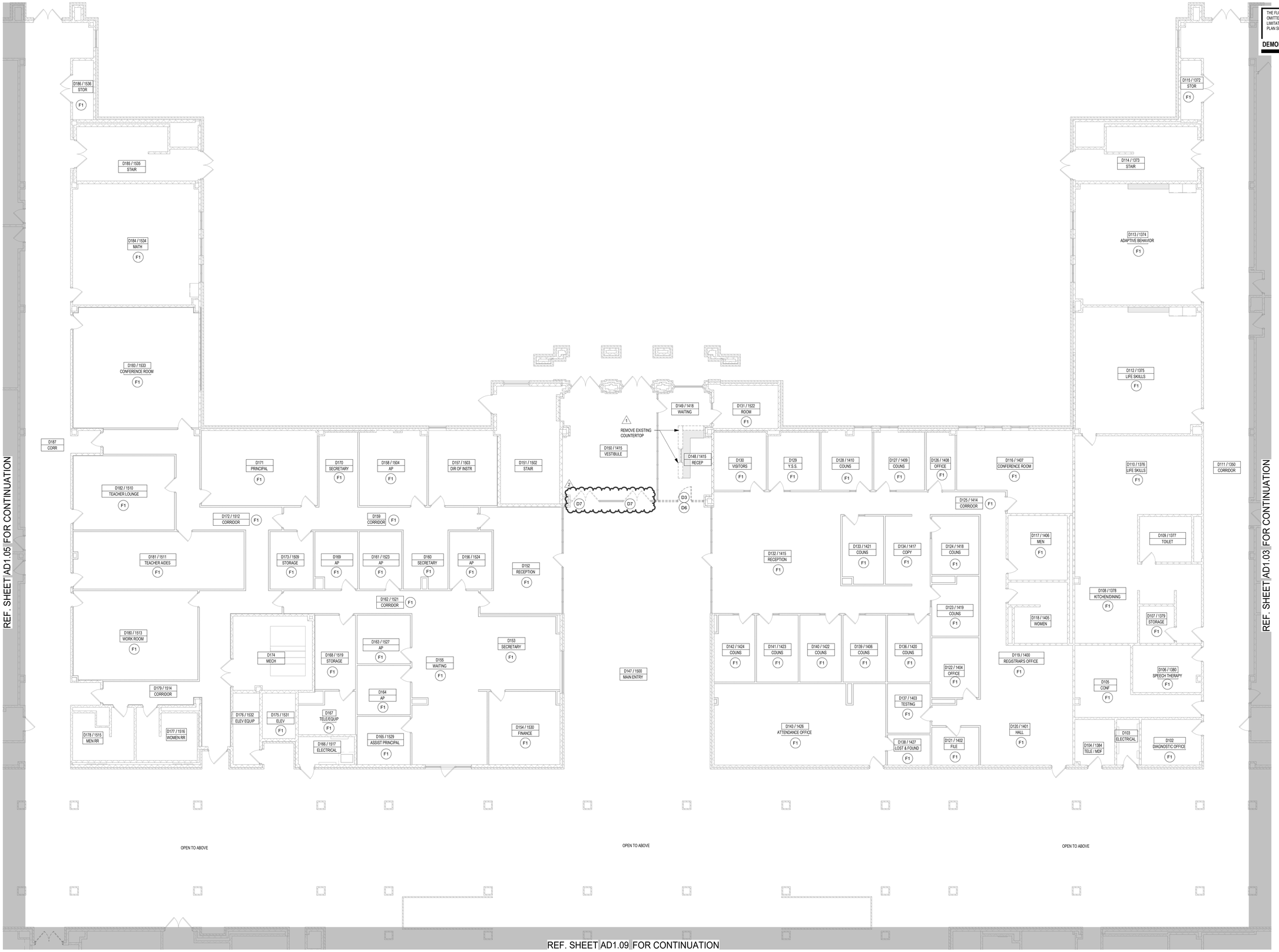
ENLARGED SITE PLAN - FINE ARTS & ATHLETICS

Job No.	Sheet No.
01818-05-01	AS1.03
Drawn By: ZFA, AA	
Date: 11/11/2024	

THE FLOOR PLAN LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER FLOOR PLAN SHEETS FOR NOTES.

DEMOLITION PLAN LEGEND



Revision /	Date
1	11/14/2024 ADDENDUM 01
2	11/20/2024 ADDENDUM 02

Project:
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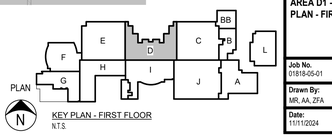
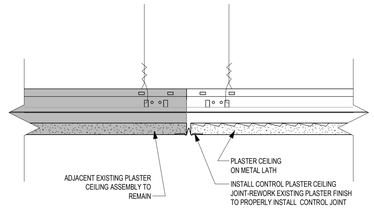
AREA D1 - DEMOLITION PLAN - FIRST FLOOR

Job No.	Sheet No.
01818-05-01	AD1.04
Drawn By: MR, AA, ZFA	
Date: 11/11/2024	

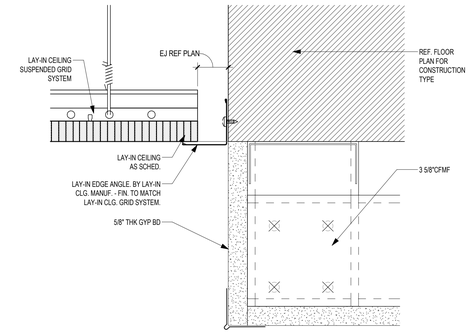


KEY PLAN - FIRST FLOOR
N.T.S.

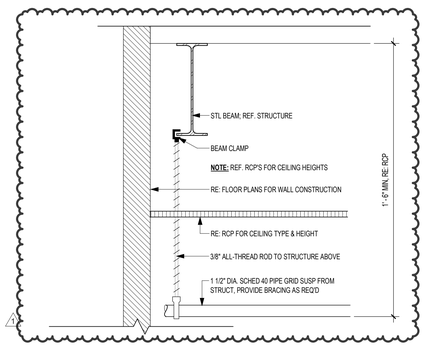
1 AREA D1 - FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



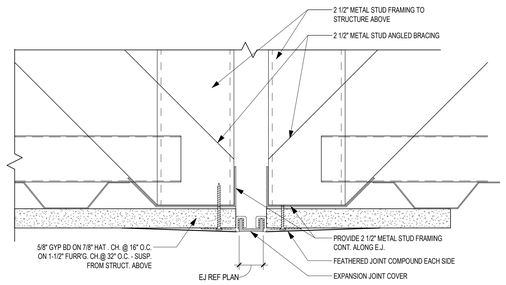
9 SUSP GYP CLG EDGE DETAIL
3" = 1'-0"



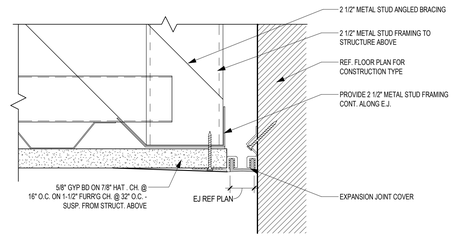
8 ACOUSTICAL CEILING TO WALL BLDG E.J.
6" = 1'-0"



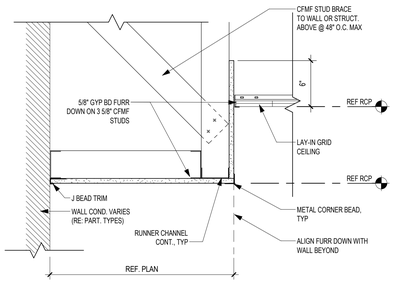
7 PIPE GRID CEILING AT BLACKBOX
1 1/2" = 1'-0"



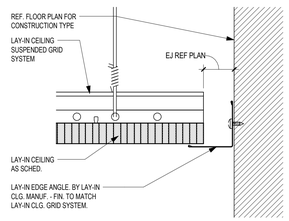
6 GYP BD CEILING TO CEILING BLDG E.J.
6" = 1'-0"



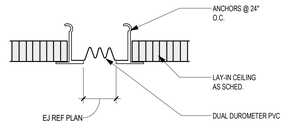
5 GYP BD CEILING TO MASONRY WALL BLDG E.J.
6" = 1'-0"



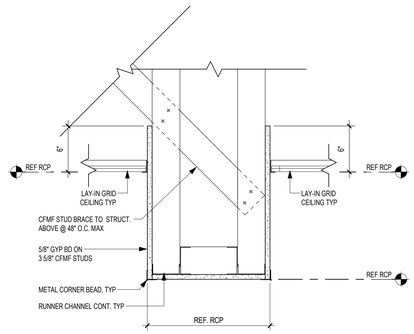
4 CLG DTL - FURR DOWN TO LAY-IN
1 1/2" = 1'-0"



3 ACOUSTICAL CEILING TO WALL BLDG E.J.
6" = 1'-0"



2 ACOUSTICAL CEILING TO CEILING BLDG E.J.
6" = 1'-0"



1 CLG DTL - LAY-IN TO BULK HEAD TO LAY-IN
1 1/2" = 1'-0"

Revision /	Date	
1	11/20/2024	ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
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CEILING DETAILS

Job No. 01818-05-01	Sheet No. A2.19
Drawn By: JFA	
Date: 11/11/2024	

A3 - AREA 'A1' DOOR SCHEDULE

	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
A101A	28.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	A101A
A101B	28.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	A101B
A101C	28.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	A101C
A102	21.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	A102
A103	60.0		No	3' - 0"	6' - 10"	HM-FL (PR)	--	--			HM		5	A103
A104	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A104
A110	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A110
A111	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	A111
A112A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A112A
A112B	30.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	A112B
A112C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A112C
A113A	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	A113A
A113B	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	A113B
A118	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A118
A120A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A120A
A120B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A120B
A121	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A121
A150A	29.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	A150A
A150B	23.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	6	A150B
A150C	23.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	6	A150C
A151	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	A151
A152	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A152
A153	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A153
A154	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A154
A155	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	A155

A3 - AREA 'B1' DOOR SCHEDULE

	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
B100A	25.0	--	Yes	3' - 0"	7' - 4"	EXIST	--	--		Yes	EXIST	EXIST	6	B100A
B100B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B100B
B102A	34.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B102A
B102B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B102B
B103A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B103A
B103B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B103B
B104A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B104A
B104B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B104B
B106	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	B106
B107	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B107
B108	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B108
B109	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	B109
B110A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B110A
B110B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B110B
B111	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B111
B112	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B112
B113A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B113A
B113B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B113B
B114	21.0		Yes	3' - 0"	7' - 6"	EXIST (PR)					EXIST	EXIST	6	B114
B115A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B115A
B115B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B115B
B116	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B116
B117	15.0		No	2' - 10"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B117
B118A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B118A
B118B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B118B
B118C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B118C
B119A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B119A
B121	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	B121
B122A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B122A
B122B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B122B
B123A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B123A
B123B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B123B
B123C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B123C
B124A	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B124A
B124B	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B124B

A3 - AREA 'C1' DOOR SCHEDULE

	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
C101A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C101A
C101B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C101B
C102A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C102A
C102B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C102B
C103A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C103A
C103B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C103B
C103C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C103C
C103D	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C103D
C103E	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C103E
C104A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C104A
C104B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C104B
C105A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C105A
C105B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C105B
C106	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	C106
C107	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	C107
C108	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	C108
C109A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C109A
C109B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C109B
C109C	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C109C
C110A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C110A
C110B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C110B
C111A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C111A
C111B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C111B
C112A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112A
C112B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112B
C112C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112C
C112D	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112D
C112E	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112E
C112F	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C112F
C113	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C113
C114A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C114A
C114B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C114B
C115A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C115A
C115B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C115B
C116	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C116
C119	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C119
C120	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	C120
C121	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C121
C122	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C122
C123	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C123
C124	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C124
C125A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C125A
C125B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C125B
C126	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C126
C127A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C127A
C127B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C127B
C128A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C128A
C128B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C128B
C128C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C128C
C128D	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C128D
C128E	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C128E
C129A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C129A
C129B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C129B
C130A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C130A
C130B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C130B
C133	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	C133
C135A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C135A
C135B	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C135B
C136A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C136A
C136B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C136B
C137A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C137A
C137B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C137B
C137C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C137C
C137D	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C137D
C137E	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C137E
C138	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C138
C139A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C139A
C139B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C139B
C140A	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C140A
C140B	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C140B
C141	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C141
C142	43.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C142
C143	43.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C143
C144	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C144
C145	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C145
C146	37.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	C146
C147	73.0		No	3' - 0"	7' - 0"	EXIST	EXIST	EXIST			EXIST	EXIST	9	C147
C148	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	C148
C149	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C149
C152	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C152

A3 - AREA 'D1' DOOR SCHEDULE

	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
D102	40.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D102
D103	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D103
D104	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D104
D105	37.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D105
D106	37.0		No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D106
D107	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D107
D108	35.0		No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D108
D109	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D109
D110	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D110
D111	3.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	D111
D112	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	D112
D113	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D113
D114A	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D114A
D114B	19.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	D114B
D115	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D115
D116	40.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D116
D117	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D117
D118	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D118
D120	40.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D120
D121	73.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	9	D121
D122	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D122
D123	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D123
D124	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D124
D126	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D126
D127	40.0		Yes	3' - 0"	7' - 0"	EXIST					AL	EXIST	5	D127
D128	40.0		Yes	3' - 0"	7' - 0"	EXIST					AL	EXIST	5	D128
D129	40.0		Yes	3' - 0"	7' - 0"	EXIST					AL	EXIST	5	D129
D130	40.0		Yes	3' - 0"	7' - 0"	EXIST					AL	EXIST	5	D130
D131	30.0		Yes	3' - 0"	7' - 2"	EXIST					EXIST	EXIST	5	D131
D132	40.0		Yes	3' - 0"	7' - 1"	EXIST					AL	EXIST	5	D132
D133	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D133
D136	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D136
D137	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D137
D138	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D138
D139	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D139
D140	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D140
D141	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D141
D142	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D142
D143	41.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D143
D148	62.0		Yes	3' - 0"	7' - 0"	AL-SF					AL		1	D148
D149A	50.0		Yes	3' - 0"	7' - 0"	EXIST					EXIST	EXIST	6	D149A
D149B	57.0		Yes	3' - 0"	7' - 0"	AL-SF					AL		2	D149B
D150A	73.0		Yes	3' - 0"	8' - 10"	EXIST (PR)					EXIST	EXIST	9	D150A
D150B	1.0		Yes	3' - 0"	8' - 10"	EXIST (PR)					EXIST	EXIST	7	D150B
D150C	73.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	13	D150C
D150D	50.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6, 13	D150D
D151	25.0	--	No	4' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	6	D151
D152A	40.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	D152A
D152B	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D152B
D152C	40.0		Yes	3' - 0"	7' - 0"	EXIST					EXIST	EXIST	5	D152C
D154	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D154
D155	40.0		Yes	3' - 2"	5' - 8"	EXIST					EXIST	EXIST	5	D155
D156	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D156
D157	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D157
D158	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D158
D159	41.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D159
D161	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D161
D162	41.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D162
D163	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D163
D164	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D164
D165	40.0	--	Yes	3' - 0"	6' - 10"	EXIST	--			No	AL	EXIST	5	D165
D166	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D166
D167	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D167
D168	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D168
D169	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D169
D171A	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D171A
D171B	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D171B
D172A	41.0		No	4' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D172A
D172B	41.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D172B
D173	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D173
D174	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	--	--			EXIST	EXIST	9	D174
D176	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D176
D177	73.0		No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D177
D178	73.0		No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D178
D179	41.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D179
D180A	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D180A
D180B	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D180B
D181A	30.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D181A
D181B	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D181B
D182A	30.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D182A
D182B	40.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D182B
D183A	40.0		No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	D183A
D183B	30.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D183B
D184	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	D184
D185A	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D185A
D185B	19.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	D185B
D186	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D186
D187	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	D187

A3 - AREA 'E1' DOOR SCHEDULE

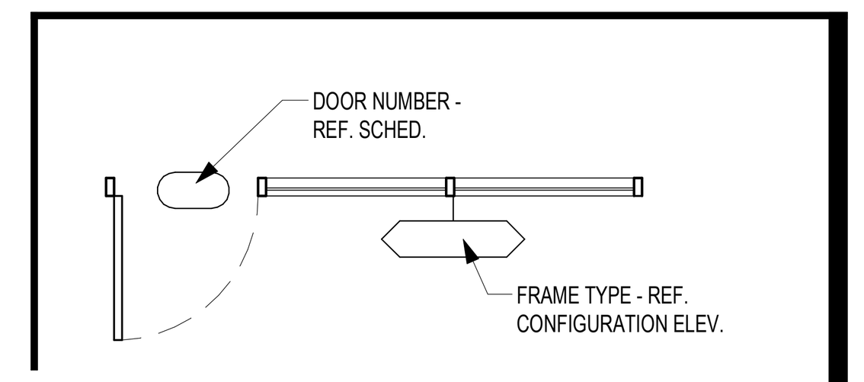
	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
E102	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E102
E105	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E105
E106	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E106
E107	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E107
E108	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E108
E109	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E109
E111	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E111
E112	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E112
E113	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E113
E114	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E114
E115	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E115
E117	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E117
E118	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E118
E119	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E119
E120	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E120
E121	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E121
E122	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E122
E123	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	E123
E124	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E124
E125	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E125
E126	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E126
E127	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E127
E128	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E128
E129	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E129
E131A	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	E131A
E131B	3.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	E131B
E131C	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	E131C
E133	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E133
E136	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E136
E137	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E137
E138	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E138
E139A	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E139A
E139B	35.1	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E139B
E140	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E140
E141	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E141
E142	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E142
E143A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E143A
E143B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E143B
E144	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E144
E145	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E145
E146	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E146
E147	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E147
E148	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E148
E149A	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E149A
E149B	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E149B
E149C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E149C
E150	8.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	E150
E152A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E152A
E152B	25.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--		Yes	EXIST	EXIST	6	E152B
E153	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E153
E156	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E156
E157	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E157
E158	43.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E158
E159	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E159
E160A	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E160A
E160B	25.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	6	E160B
E161	43.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E161
E162	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E162
E163A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E163A
E163B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E163B
E164A	35.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E164A
E164B	24.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	6	E164B
E165A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E165A
E165B	24.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	6	E165B
E166A	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	E166A
E166B	26.0	--	Yes	3' - 0"	7' - 6"	EXIST (PR)	--	--		Yes	EXIST	EXIST	6	E166B
E167	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	E167

A3 - AREA 'F1' DOOR SCHEDULE

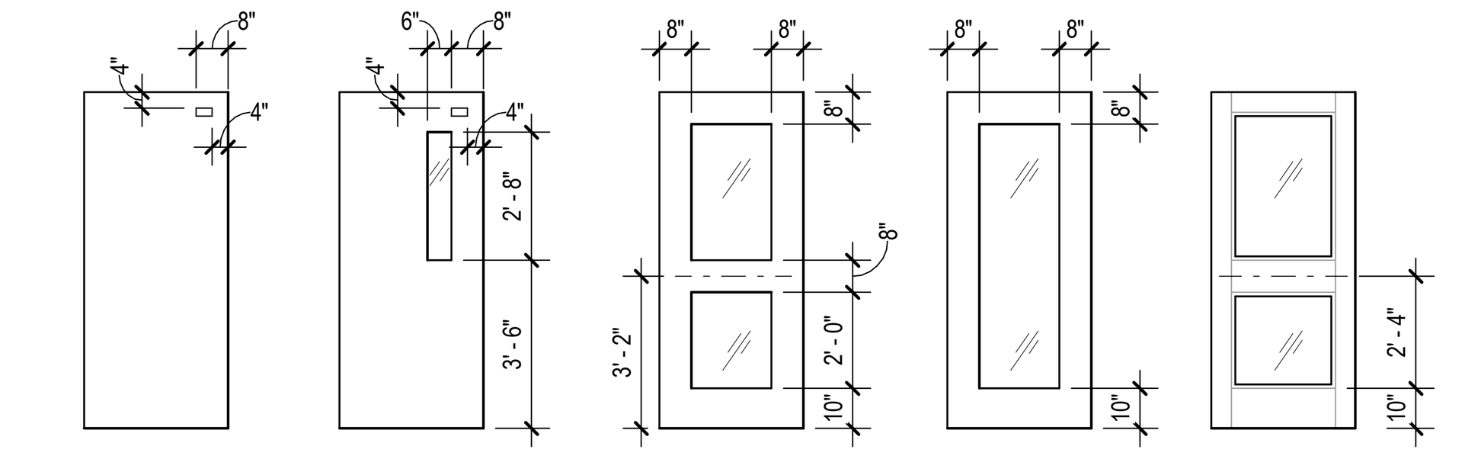
	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
F101A	2.0		Yes	3' - 0"	7' - 6"	EXIST (PR)					EXIST	EXIST	6	F101A
F101B	6.0		Yes	3' - 0"	7' - 6"	EXIST (PR)					EXIST	EXIST	5	F101B
F103	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	F103
F105A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	F105A
F105B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	F105B
F106	38.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	5	F106
F107	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F107
F108	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F108
F109	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F109
F110	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F110
F111	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F111
F113	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F113
F114	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F114
F115A	73.0		No	3' - 6"	7' - 4"	EXIST (PR)	--	--			EXIST	EXIST	9	F115A
F115B	73.0		No	3' - 6"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F115B
F116	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F116
F117	68.0	--	No	3' - 0"	6' - 10"	PL-FL	--	--		No	HM	EXIST	5	F117
F118A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F118A
F118B	73.0		No	3' - 2"	8' - 4 5/8"	EXIST					AL	EXIST	9	F118B
F119A	13.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	5	F119A
F119B	13.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	5	F119B
F122A	73.0		No	3' - 6"	7' - 4"	EXIST (PR)	--	--			EXIST	EXIST	9	F122A
F122B	73.0		No	3' - 6"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F122B
F123	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F123
F124A	7.0		No	3' - 0"	7' - 0"	EXIST (PR)	CTG	--			EXIST	EXIST	5	F124A
F124B	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	F124B
F125	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F125
F128	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F128
F129	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F129
F130	73.0		No	3' - 6"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	F130
F133	73.0		No	3' - 0"	6' - 10"	HM-FL (PR)	--	--			HM	EXIST	9	F133
F134	44.0		Yes	3' - 0"	7' - 6"	AL-SF (PR)	--	--			AL	B	2	F134
F135	60.1		No	3' - 0"	6' - 10"	PL-FL (PR)	CTG	--			HM	B	1	F135

A3 - AREA 'G1' DOOR SCHEDULE

	OPENING			DOOR						DOOR	FRAME			
OPENING NUMBER	HARDWARE	FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING	FR GLAZING	FRAME GLAZING	PANIC HARDWARE	MATERIAL	FRAME TYPE	NOTES	OPENING NUMBER
G101	3.0		Yes	3' - 0"	7' - 6"	EXIST (PR)					EXIST	EXIST	6	G101
G102	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G102
G104	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G104
G105	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G105
G106	73.0		Yes	3' - 6"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G106
G107	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G107
G108	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G108
G109	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G109
G111A	9.0	--	Yes	4' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	G111A
G111B	55.0		No	4' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G111B
G112	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G112
G113	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G113
G114A	9.0	--	No	4' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	G114A
G114B	54.0		No	4' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G114B
G114C	65.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G114C
G114D	65.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G114D
G114E	65.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G114E
G116	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G116
G117	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G117
G118	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G118
G119	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G119
G121	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G121
G122	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G122
G123	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G123
G124	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G124
G125	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G125
G126	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G126
G127	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G127
G128	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G128
G129A	19.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST	EXIST	6	G129A
G129B	19.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	6	G129B
G131	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	G131
G132	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G132
G133	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	G133
G135A	9.0	--	Yes	4' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	G135A
G135B	54.0		No	4' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	3	G135B
G136A	9.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	G136A
G136B	54.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G136B
G137	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G137
G140A	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	G140A
G140B	33.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	G140B
G140C	25.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	G140C
G141	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G141
G144A	73.0		Yes	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G144A
G144B	30.1		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	G144B
G146	73.0		No	4' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	8	G146
G151	63.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G151
G152	58.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G152
G153	65.0		No	4' - 0"	6' - 10"	SC-NL	CTG	--			HM	B	3	G153
G154A	53.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G154A
G154B	54.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G154B
G155	63.0		No	3' - 0"	6' - 10"	SC-FL	CTG	--			HM	B	1	G155
G156A	53.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G156A
G156B	54.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G156B
G157	58.0		No	3' - 0"	6' - 10"	PL-FL	CTG	--			HM	B	1	G157
G158	49.0		No	3' - 0"	6' - 10"	HM-FL	--	--			HM	B	1	G158
G159	59.0		No	3' - 0"	6' - 10"	SC-FL	--	--			HM	B	1	G159
G160	58.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1	G160
G161A	66.0		No	4' - 0"	6' - 10"	PL-FL	CTG	--			HM	B	1,12	G161A
G161B	53.0		No	4' - 0"	6' - 10"	PL-FL	CTG	--			HM	B	1	G161B
G162A	67.0		No	3' - 0"	6' - 10"	PL-FL (PR)	CTG	--			HM	B	1,12	G162A
G162B	56.0		No	3' - 0"	6' - 10"	PL-FL (PR)	CTG	--			HM	B	1	G162B
G163	48.0		No	3' - 0"	6' - 10"	HM-FL	CTG	--			HM	B	2,11,12	G163
G164A	60.1		No	3' - 0"	6' - 10"	PL-FL (PR)	CTG	--			HM	B	1,12	G164A
G164B	59.1		No	4' - 0"	6' - 10"	PL-FL	CTG	--			HM	B	1	G164B
G165	39.0	--	No	3' - 0"	6' - 10"	SC-NL	GTC	GTC			HM	IHM02	1,12	G165
G166	64.0		No	3' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	1,12	G166
G167	46.0		No	3' - 0"	6' - 10"	HM-FL (PR)	CTG	--			HM	B	1	G167
G168	44.0		No	3' - 0"	7' - 6"	AL-SF (PR)	CTG	--			AL	B	2	G168
G170	73.0		Yes	4' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	G170
G171A	9.0	--	No	4' - 0"	6' - 10"	PL-FL	--	--		Yes	HM	EXIST	5	G171A
G171B	48.0		No	4' - 0"	6' - 10"	HM-NL	CTG	--			HM	B	2,11	G171B



STOREFRONT & CURTAIN WALL DOOR FRAMES



FL
FLUSH DOOR
NO GLAZING

NL
NARROW LITE

2L
TWO LITE

1L
ONE LITE

SF
STORE FRONT - WIDE STILE DOOR

DOOR TYPE

DEFAULT DOORS

IF A DOOR ASSEMBLY APPEARS ON THE FLOOR PLANS BUT IS NOT IDENTIFIED BY A SCHEDULE NUMBER, THE DOOR SHALL BE INCLUDED IN THE BID AS LISTED BELOW. THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT TO DETERMINE WHAT THE ACTUAL DOOR AND FRAME TYPE AND HARDWARE REQUIREMENTS WILL BE. ADJUSTMENTS IN CONTRACT PRICE WILL BE BASED ON THE DIFFERENCE BETWEEN ACTUAL REQUIREMENTS AND THE DEFAULT DOOR VALUE.

THE DEFAULT EXTERIOR DOOR SHALL BE A TYPE "HM-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" ("B1" AT EXTERIOR MASONRY WALL) FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR EXTERIOR DOORS.

THE DEFAULT INTERIOR DOOR SHALL BE A TYPE "SC-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR INTERIOR DOORS.

TYPICAL NOTES

A) DOOR TYPES ARE INDICATED AS A MATERIAL-CONFIGURATION CODE. THE MATERIAL CODE DESIGNATES MATERIALS AND FINISHES AS SPECIFIED. REFER TO SPECIAL NOTES FOR NON-TYPICAL FINISHES. THE CONFIGURATION CODE REFERS TO TYPICAL OR SPECIAL CONFIGURATIONS AS DRAWN.

B) DOOR ASSEMBLIES ARE NUMBERED BY ASSEMBLY. MULTIPLE SETS OF DOORS MAY OCCUR IN THE SAME FRAME ASSEMBLY (REFER TO SCHEDULE AND PLAN FOR QUANTITY). DOORS MAY OCCUR IN PAIRS (REFER TO SCHEDULE AND PLAN FOR INCIDENCE).

C) FRAME CONFIGURATION IS DIAGRAMMATIC AND NOMINAL. DIMENSIONS SHALL BE ADJUSTED TO ACCOMMODATE DOOR SIZES AS SCHEDULED. WITHIN ANY HOLLOW METAL ASSEMBLY, THE WIDTH OF SIDELITES SHALL BE EQUAL AND SHALL NOT EXCEED 3'-0" U.N.O.

D) ALTERNATE FINISHES CAN SOMETIMES HAVE AN IMPACT ON DETAILING (E.G. HALF OR OFFSET SADDLES EMPLOYED IN LIEU OF STANDARD SADDLES WHEN ADJACENT TO THICKER FLOOR FINISHES SUCH AS TERRAZZO OR QUARRY TILE). COORDINATE DETAILS WITH FINAL FINISH SELECTIONS.

E) GLAZED FRAMES ASSOCIATED WITH 20-MINUTE, 45-MINUTE, AND/OR 60-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 1-HOUR. GLAZED FRAMES ASSOCIATED WITH 90-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 2-HOUR. GLAZING MUST MEET CODE REQUIREMENTS, INCLUDING SIZE LIMITATIONS, IN FIRE-RATED FRAMES. REF. IBC TABLE 716.1 (2).

F) PROVIDE 2x WOOD BLOCKING @ CFMF STUD WALLS FOR WALL MOUNTED ITEMS LIKE WALL STOPS, HOLD OPENS, ETC.

G) REFER TO FLOOR PLANS AND EXTERIOR ELEVATIONS FOR ALUMINUM FRAME LOCATIONS.

H) OVERHEAD COILING DOORS ARE MOTORIZED UNLESS NOTED OTHERWISE.

SPECIAL NOTES:

1. NEW DOOR
2. NEW DOOR, PROVIDE CARD READER
3. NEW DOOR SOUND CONTROL DOOR ASSEMBLY STC50.
4. NEW DOOR SOUND SEAL W/ DOOR BOTTOM STC 40-42.
5. EXISTING DOOR, RE: HARDWARE FOR NEW HARDWARE SCOPE
6. EXISTING DOOR, RE: HARDWARE FOR NEW CARD READER
7. EXISTING DOOR, RE: HARDWARE FOR NEW 2N SYSTEM
8. EXISTING FRAME TO REMAIN, EXISTING DOOR PANELS TO BE REMOVED
9. NO SCOPE
10. NEW FOLDING PARTITION
11. PROVIDE (2) PEEPHOLES IN DOOR PANEL: (1) LOCATED AT STANDARD HEIGHT AND (1) AT 42" AFF.
12. DOOR PANEL & FRAME TO BE BLACK. REF. SCHEDULE OF MATERIALS & FINISH PLANS
13. REMOVE EXISTING CRAZED GLAZING. INSTALL NEW LAMINATED SECURITY GLAZING IN EXISTING STOREFRONT DOORS.

DOOR ASSEMBLY NOTES

AL - ALUMINUM

HM - HOLLOW METAL

SC - SOLID CORE WOOD

CL - CHAIN LINK (VINYL-COATED)

DMF - DECORATIVE METAL FENCING

DOOR/FRAME MATERIALS

IGE - INSULATED GLASS ETCHED

IGLSA - INSULATED GLASS LAMINATED SAFETY

IGCP - INSULATED GLASS-CLAD POLYCARBONATE

IGDF - INSULATED GLASS DECORATIVE FILM

IGS - INSULATED GLASS SPANDREL

IGSE - INSULATED GLASS SECURITY

IGSEF - SECURITY FILM ON EXISTING INSULATED GLASS

IGSS - INSULATED GLASS STRUCTURAL SILICONE GLAZED

IGU - INSULATED GLASS UNIT

GCP - GLASS-CLAD POLYCARBONATE

GDF - GLASS DECORATIVE FILM

GE - GLASS ETCHED

GEBG - GLASS EXTERIOR BUTT JOINT

GFRR - GLASS FIRE-RESISTANCE-RATED

GFPR - GLASS FIRE-PROTECTION-RATED

GIBJG - GLASS INTERIOR BUTT JOINT

GLSA - GLASS LAMINATED SAFETY

GLSE - GLASS LAMINATED SECURITY

GSEF - GLASS SECURITY FILM

GTC - GLASS TEMPERED CLEAR

MIP - METAL INSULATED PANEL

MIR - UNFRAMED MIRROR

MIRT - TRANSPARENT ONE-WAY MIRROR

SCWA - SOUND CONTROL WINDOW ASSEMBLY

TWRA - TRANSLUCENT WALL & ROOF ASSEMBLIES

1.) ALL GLAZING IS 1/4" THICK (U.N.O.). INSULATED GLASS SHALL CONSIST OF AN EXTERIOR LAYER OF GLASS, TINTED AS SPECIFIED, AN INTERIOR LAYER OF CLEAR GLASS, FACTORY SEALED WITH A 1/2" AIR SPACE. WHERE TEMPERED GLASS IS SPECIFIED, BOTH LAYERS OF INSULATED GLASS SHALL BE TEMPERED.

2.) ANY WINDOW OR GLAZING PANELS LOCATED AT A INTERSTITIAL SPACE OR NOT READILY VISIBLE SHALL HAVE SPANDREL GLASS INSTALLED, REGARDLESS OF ANY NOTATION ELSEWHERE.

GLAZING LEGEND

TEM - TYP EXT MASONRY DETAIL - HM

TEMA - TYP EXT MASONRY DETAIL - ALUM

TICF - TYP EXT INSUL CONC FORMS - HM

TICFA - TYP EXT INSUL CONC FORMS - ALUM

TIM - TYP INTERIOR MASONRY DETAIL - HM

TIMA - TYP INTERIOR MASONRY DETAIL - ALUM

TDW - TYP DRYWALL PARTITION DETAIL - HM

TDWA - TYP DRYWALL PARTITION DETAIL - ALUM

HO - DOOR HOLD OPEN (MAGNETIC OR MANUAL - SEE SPECIAL NOTES FOR MORE INFO)

TH - THRESHOLD

SEC - SECURITY CONTACTS (REF. ELEC. AND TECH.)

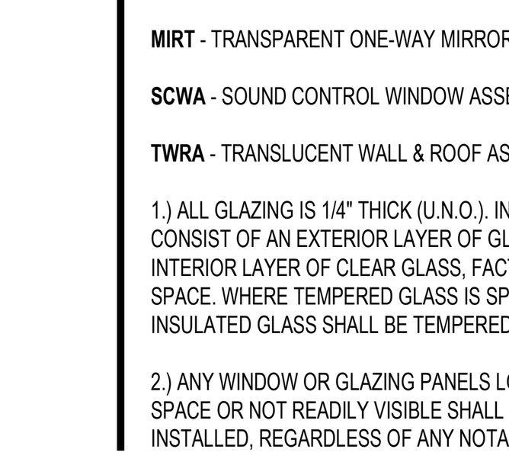
OH - DENOTES OPPOSITE HAND CONFIGURATION

SCHEDULE ABBREVIATIONS

ADDENDUM 02

Revision / 1 | Date 11/20/2024

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433



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DOOR SCHEDULES AND CONFIGURATIONS

Job No. 01818-05-01
Drawn By: ZFA
Date: 11/11/2024
Sheet No. A3.01

A3 - AREA 'H1' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
H100	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	H100
H101	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H101
H102A	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	H102A
H102B	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H102B
H103A	73.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		No	EXIST	EXIST	9	H103A
H103B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H103B
H104B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H104B
H104C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H104C
H105	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	H105
H106	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H106
H107	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H107
H108A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	H108A
H108B	30.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	H108B
H109	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	H109
H113	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H113
H114	27.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	7	H114
H115A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H115A
H115B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H115B
H116	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H116
H117	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H117
H118	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H118
H119	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H119
H120	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H120
H124	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H124
H125	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H125
H126	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H126
H127	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H127
H130	24.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	6	H130
H131	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	H131
H132A	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H132A
H132B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H132B
H133	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H133
H134	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H134
H135	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H135
H136	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	H136
H137	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	5	H137
H137A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H137A
H138	68.0	--	No	3' - 0"	6' - 10"	PL-FL	--	--		No	HM	EXIST	5	H138
H139	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H139
H141	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H141
H142	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H142
H143	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H143
H145	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H145
H146A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H146A
H146B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H146B
H147A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	H147A
H147B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	H147B
H149	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H149
H151	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H151
H151A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H151A
H152	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H152
H153	68.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	H153
H154	68.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	H154
H155	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H155
H156	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H156
H157	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H157
H158	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H158
H159	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H159
H160	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H160
H161	9.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H161
H162	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H162
H164	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H164
H165A	9.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H165A
H165B	15.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H165B
H166	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H166
H167	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H167
H169	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H169
H170	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H170
H171A	24.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	6	H171A
H171B	24.0	--	Yes	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	6	H171B
H172	73.0		No	3' - 6"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H172
H173	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H173
H174	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H174
H175	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H175

A3 - AREA 'I1' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
I101	25.1		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	I101
I102	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I102
I105	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I105
I106	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	--	--			EXIST	EXIST	9	I106
I111	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I111
I112	40.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	I112
I113	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I113
I114	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I114
I115A	3.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	I115A
I115B	3.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	I115B
I116	5.0		Yes	3' - 0"	6' - 9 1/2"	EXIST					AL		6	I116
I116A	5.0		Yes	3' - 0"	6' - 9 1/2"	EXIST					AL		6	I116A
I117	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I117
I118	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	--	--			EXIST	EXIST	9	I118
I119A	3.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	I119A
I119B	3.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	I119B
I120A	18.0	--	No	3' - 0"	7' - 6"	EXIST	--			Yes	AL	EXIST	5	I120A
I120B	47.0		No	3' - 0"	6' - 10"	HM-FL	--	--			HM	EXIST	6	I120B
I121A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I121A
I121B	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	I121B
I122	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I122
I123	42.0		No	3' - 0"	7' - 0"	EXIST	EXIST	EXIST			EXIST	EXIST	9	I123
I124	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I124
I125	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I125
I126	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I126
I127	42.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I127
I128	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I128
I129A	45.0		No	3' - 0"	6' - 10"	HM-FL (PR)	--	--			HM	EXIST	7	I129A
I129B	73.0		No	4' - 0"	6' - 10"	HM-FL	---	--			HM	EXIST	9	I129B
I131	40.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	I131
I134	73.0	--	No	4' - 0"	6' - 10"	HM-FL	--	--		No	HM	EXIST	9	I134
I135	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I135
I136	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I136
I137A	52.0		No	3' - 0"	7' - 0"	HM-FL (PR)	--	--			HM	EXIST	5	I137A
I137B	61.0		No	3' - 0"	6' - 10"	HM-FL (PR)	--	--			HM	EXIST	5	I137B
I138	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	I138
I140	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I140
I141	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	---	--			EXIST	EXIST	9	I141
I142	73.0		No	4' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I142
I144	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	I144

A3 - AREA L1' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
L100	22.1	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	L100
L101	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L101
L102	73.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--			EXIST	EXIST	9	L102
L103	73.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--			EXIST	EXIST	9	L103
L104	73.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	L104
L105	73.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--			EXIST	EXIST	9	L105
L106	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L106
L107	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L107
L108-A	22.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	L108-A
L108-B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L108-B
L108-C	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L108-C
L109	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L109
L110	73.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--			EXIST	EXIST	9	L110
L111	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L111
L112	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L112
L113	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L113
L114	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L114
L115	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L115
L116-A	22.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	6	L116-A
L116-B	73.0	--	Yes	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	L116-B
L117	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L117
L118	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	L118
L119	73.0	--	Yes	4' - 0"	7' - 4"	EXIST	--	--			EXIST	EXIST	9	L119
L120	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	--	--			EXIST	EXIST	9	L120

A3 - AREA 'J1' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
J100	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J100
J101A	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J101A
J101B	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J101B
J101C	20.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST		5	J101C
J101D	22.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST		6	J101D
J101E	20.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST		5	J101E
J101F	22.0		Yes	3' - 0"	7' - 0"	EXIST (PR)					EXIST		6	J101F
J101G	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J101G
J101H	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J101H
J102A	69.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	J102A
J102B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J102B
J103	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J103
J105A	69.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	J105A
J105B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J105B
J106	73.0		No	3' - 0"	7' - 0"	EXIST (PR)	GTC	--			EXIST	B	9	J106
J107A	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J107A
J107B	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J107B
J107C	14.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		Yes	EXIST	EXIST	5	J107C
J108	37.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J108
J109	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J109
J117A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J117A
J117B	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J117B
J117C	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J117C
J119	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J119
J121	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J121
J124A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J124A
J124B	30.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J124B
J124C	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J124C
J125	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J125
J127	37.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J127
J128A	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J128A
J128B	10.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J128B
J129	4.0		No	3' - 0"	7' - 0"	EXIST (PR)	GTC	--			EXIST	B	6	J129
J133	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J133
J134A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J134A
J134B	47.0	--	Yes	3' - 0"	7' - 4"	HM-FL	--	--		Yes	HM	EXIST	6	J134B
J136A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J136A
J136B	47.0	--	Yes	3' - 0"	7' - 4"	HM-FL	--	--		Yes	HM	EXIST	6	J136B
J137	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J137
J144A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J144A
J144B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J144B
J147	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J147
J148	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J148
J149A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J149A
J149B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J149B
J150	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J150
J151	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J151
J152	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J152
J153	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J153
J154A	36.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J154A
J154B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J154B
J155A	12.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		No	EXIST	EXIST	5	J155A
J155B	12.0	--	No	3' - 0"	6' - 10"	EXIST (PR)	--	--		No	EXIST	EXIST	5	J155B
J156A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J156A
J156B	30.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J156B
J158	42.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J158
J159	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J159
J162	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J162
J163	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J163
J165	31.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J165
J165A	31.0		No	2' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J165A
J166	36.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	5	J166
J166A	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J166A
J166B	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J166B
J166C	42.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	J166C
J168	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	J168
J168-A	73.0			24' - 4"	10' - 0"								10	J168-A
J168-B	73.0			24' - 8"	10' - 0"								10	J168-B
J169	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	5	J169
J170	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	J170

A3 - AREA 'B2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
B200	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	B200
B201	73.0		No	3' - 0"	7' - 0"	EXIST	---	--			EXIST	EXIST	9	B201
B203A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B203A
B203B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B203B
B204A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B204A
B204B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B204B
B204C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B204C
B205A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B205A
B205B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B205B
B207	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	---	--			EXIST	EXIST	9	B207
B208	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B208
B209	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B209
B210A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B210A
B210B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B210B
B211A	9.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B211A
B211B	15.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	B211B
B212	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	B212

A3 - AREA 'C2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
C210	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	C210
C211	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C211
C212	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C212
C213	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C213
C214	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C214
C215	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	C215
C216	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	C216
C218	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C218
C219	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C219
C220	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C220
C221	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C221
C222A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C222A
C222B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C222B
C223	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C223
C224	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C224
C225	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C225
C226	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C226
C227	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C227
C228	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C228
C229	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C229
C232	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C232
C234	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C234
C235	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	C235
C236	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	C236
C237	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C237
C238	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C238
C239	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C239
C240	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C240
C241	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C241
C242	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C242
C243	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C243
C244	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C244
C245	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C245
C246	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C246
C247	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C247
C248	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C248
C251	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C251
C252	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C252
C253	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C253
C254	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C254
C255A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C255A
C255B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C255B
C256	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C256
C257	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C257
C258	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C258
C259	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C259
C260	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	C260
C261	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C261
C264	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	C264

A3 - AREA 'D2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
D207	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D207
D208	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D208
D209A	30.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D209A
D209B	33.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D209B
D209C	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D209C
D212A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D212A
D212B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D212B
D213	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D213
D214	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D214
D215	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D215
D216A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D216A
D216B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D216B
D216C	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D216C
D218	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D218
D219	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	D219
D220	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	D220
D221	35.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D221
D222	35.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D222
D223	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D223
D224	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	9	D224
D225	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D225
D226	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D226
D227	51.0	--	Yes	3' - 0"	7' - 0"	EXIST (PR)				No	EXIST	EXIST	5	D227
D228	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D228
D229	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		Yes	EXIST	EXIST	9	D229
D230A	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--			EXIST	EXIST	9	D230A
D230B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D230B
D231	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D231
D233	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D233
D234	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D234
D235	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	D235
D237A	10.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D237A
D237B	11.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D237B
D238	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	D238
D239	70.0		No	3' - 0"	6' - 10"	PL-FL	---	--			HM	EXIST	5	D239
D240	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D240
D241A	36.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	D241A
D241B	73.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	9	D241B
D242	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D242
D243	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	D243

A3 - AREA 'E2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
E210	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E210
E211	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E211
E214	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E214
E215	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E215
E216	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E216
E217	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E217
E218	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E218
E219A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E219A
E219B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E219B
E220	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E220
E221	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E221
E222	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E222
E223	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E223
E224	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E224
E226	37.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E226
E227	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E227
E228	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E228
E229	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E229
E231	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E231
E232	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E232
E233	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E233
E234	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E234
E235	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E235
E236	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E236
E237	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E237
E238	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E238
E239	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E239
E241	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E241
E242	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E242
E243	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E243
E244	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E244
E246	32.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E246
E249	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E249
E250	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E250
E251	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E251
E252	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E252
E253	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E253
E254	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E254
E256	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E256
E257	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E257
E258	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E258
E259	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E259
E260	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E260
E261	10.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E261
E263	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E263
E264	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E264
E265A	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E265A
E265B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E265B
E266	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E266
E267	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	E267
E268	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	E268
E269	73.0		No	3' - 0"	6' - 10"	EXIST (PR)	--	--			EXIST	EXIST	9	E269
E270	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	E270

A3 - AREA 'H2' DOOR SCHEDULE

OPENING NUMBER	AAOS Project HW Set	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
H201	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H201
H202	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H202
H203	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H203
H204A	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H204A
H204B	33.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H204B
H205	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	H205
H207A	30.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	5	H207A
H207B	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H207B
H208	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H208
H209	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H209
H212	73.0		No	3' - 6"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H212
H213	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	H213

A3 - AREA 'I2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
I200	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I200
I201	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I201
I202	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	I202

A3 - AREA 'J2' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
J202	73.0		No	3' - 6"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	J202
J203	73.0		No	3' - 0"	6' - 10"	EXIST	---	--			EXIST	EXIST	9	J203
J204	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J204
J205	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J205
J206	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J206
J207	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J207
J208	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J208
J209	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J209
J210	36.0	--	No	3' - 0"	6' - 10"	EXIST	--	--		No	EXIST	EXIST	5	J210

A3 - AREA 'K1' DOOR SCHEDULE

OPENING NUMBER	HARDWARE	OPENING		DOOR				FR GLAZING	FRAME GLAZING	DOOR	FRAME		NOTES	OPENING NUMBER
		FIRE RATING	EXTERIOR	WIDTH	HEIGHT	TYPE	DR GLAZING			PANIC HARDWARE	MATERIAL	FRAME TYPE		
K101	49.0		Yes	3' - 6"	7' - 0"	HM-FL	--	--			HM	EXIST	1	K101
K101B	72.0		Yes	10' - 0"	9' - 0"	OCD-SS					STL		FACE MOUNT, MANUAL	K101B
K102A			No	3' - 0"	7' - 0"	EXIST (PR)	CTG	--			EXIST	EXIST	9	K102A
K102B			No	3' - 0"	7' - 0"	EXIST	--	--			EXIST	EXIST	9	K102B
K103			No	3' - 0"	7' - 0"	EXIST	--	--			EXIST	EXIST	9	K103
K104A			No	3' - 0"	7' - 0"	EXIST (PR)	CTG	--			EXIST	EXIST	9	K104A
K104B			No	3' - 0"	7' - 0"	EXIST	--	--			EXIST	EXIST	9	K104B

DEFAULT DOORS

IF A DOOR ASSEMBLY APPEARS ON THE FLOOR PLANS BUT IS NOT IDENTIFIED BY A SCHEDULE NUMBER, THE DOOR SHALL BE INCLUDED IN THE BID AS LISTED BELOW. THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT TO DETERMINE WHAT THE ACTUAL DOOR AND FRAME TYPE AND HARDWARE REQUIREMENTS WILL BE. ADJUSTMENTS IN CONTRACT PRICE WILL BE BASED ON THE DIFFERENCE BETWEEN ACTUAL REQUIREMENTS AND THE DEFAULT DOOR VALUE.

THE DEFAULT EXTERIOR DOOR SHALL BE A TYPE "HM-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" ("B1" AT EXTERIOR MASONRY WALL) FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR EXTERIOR DOORS.

THE DEFAULT INTERIOR DOOR SHALL BE A TYPE "SC-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "B" FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR INTERIOR DOORS.

TYPICAL NOTES

A) DOOR TYPES ARE INDICATED AS A MATERIAL-CONFIGURATION CODE. THE MATERIAL CODE DESIGNATES MATERIALS AND FINISHES AS SPECIFIED. REFER TO SPECIAL NOTES FOR NON-TYPICAL FINISHES. THE CONFIGURATION CODE REFERS TO TYPICAL OR SPECIAL CONFIGURATIONS AS DRAWN.

B) DOOR ASSEMBLIES ARE NUMBERED BY ASSEMBLY. MULTIPLE SETS OF DOORS MAY OCCUR IN THE SAME FRAME ASSEMBLY (REFER TO SCHEDULE AND PLAN FOR QUANTITY). DOORS MAY OCCUR IN PAIRS (REFER TO SCHEDULE AND PLAN FOR INCIDENCE).

C) FRAME CONFIGURATION IS DIAGRAMMATIC AND NOMINAL. DIMENSIONS SHALL BE ADJUSTED TO ACCOMMODATE DOOR SIZES AS SCHEDULED. WITHIN ANY HOLLOW METAL ASSEMBLY, THE WIDTH OF SIDELITES SHALL BE EQUAL AND SHALL NOT EXCEED 3'-0" U.N.O.

D) ALTERNATE FINISHES CAN SOMETIMES HAVE AN IMPACT ON DETAILING (E.G. HALF OR OFFSET SADDLES EMPLOYED IN LIEU OF STANDARD SADDLES WHEN ADJACENT TO THICKER FLOOR FINISHES SUCH AS TERRAZZO OR QUARRY TILE). COORDINATE DETAILS WITH FINAL FINISH SELECTIONS.

E) GLAZED FRAMES ASSOCIATED WITH 20-MINUTE, 45-MINUTE, AND/OR 60-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 1-HOUR. GLAZED FRAMES ASSOCIATED WITH 90-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 2-HOUR. GLAZING MUST MEET CODE REQUIREMENTS, INCLUDING SIZE LIMITATIONS, IN FIRE-RATED FRAMES. REF. IBC TABLE 716.1 (2).

F) PROVIDE 2x WOOD BLOCKING @ CFMF STUD WALLS FOR WALL MOUNTED ITEMS LIKE WALL STOPS, HOLD OPENS, ETC.

G) REFER TO FLOOR PLANS AND EXTERIOR ELEVATIONS FOR ALUMINUM FRAME LOCATIONS.

H) OVERHEAD COILING DOORS ARE MOTORIZED UNLESS NOTED OTHERWISE.

SPECIAL NOTES:

1. NEW DOOR
2. NEW DOOR, PROVIDE CARD READER
3. NEW DOOR SOUND CONTROL DOOR ASSEMBLY STC50.
4. NEW DOOR SOUND SEAL W/ DOOR BOTTOM STC 40-42.
5. EXISTING DOOR, RE: HARDWARE FOR NEW HARDWARE SCOPE
6. EXISTING DOOR, RE: HARDWARE FOR NEW CARD READER
7. EXISTING DOOR, RE: HARDWARE FOR NEW 2N SYSTEM
8. EXISTING FRAME TO REMAIN, EXISTING DOOR PANELS TO BE REMOVED
9. NO SCOPE
10. NEW FOLDING PARTITION
11. PROVIDE (2) PEEPHOLES IN DOOR PANEL: (1) LOCATED AT STANDARD HEIGHT AND (1) AT 42" AFF.
12. DOOR PANEL & FRAME TO BE BLACK. REF. SCHEDULE OF MATERIALS & FINISH PLANS
13. REMOVE EXISTING CRAZED GLAZING. INSTALL NEW LAMINATED SECURITY GLAZING IN EXISTING STOREFRONT DOORS.

DOOR ASSEMBLY NOTES

AL - ALUMINUM

HM - HOLLOW METAL

SC - SOLID CORE WOOD

CL - CHAIN LINK (VINYL-COATED)

DMF - DECORATIVE METAL FENCING

DOOR/FRAME MATERIALS

IGE - INSULATED GLASS ETCHED

IGLSA - INSULATED GLASS LAMINATED SAFETY

IGCP - INSULATED GLASS-CLAD POLYCARBONATE

IGDF - INSULATED GLASS DECORATIVE FILM

IGS - INSULATED GLASS SPANDREL

IGSE - INSULATED GLASS SECURITY

IGSEF - SECURITY FILM ON EXISTING INSULATED GLASS

IGSS - INSULATED GLASS STRUCTURAL SILICONE GLAZED

IGU - INSULATED GLASS UNIT

GCP - GLASS-CLAD POLYCARBONATE

GDF - GLASS DECORATIVE FILM

GE - GLASS ETCHED

GEBG - GLASS EXTERIOR BUTT JOINT

GFRR - GLASS FIRE-RESISTANCE-RATED

GFPR - GLASS FIRE-PROTECTION-RATED

GIBJG - GLASS INTERIOR BUTT JOINT

GLSA - GLASS LAMINATED SAFETY

GLSE - GLASS LAMINATED SECURITY

GSEF - GLASS SECURITY FILM

GTC - GLASS TEMPERED CLEAR

MIP - METAL INSULATED PANEL

MIR - UNFRAMED MIRROR

MIRT - TRANSPARENT ONE-WAY MIRROR

SCWA - SOUND CONTROL WINDOW ASSEMBLY

TWRA - TRANSLUCENT WALL & ROOF ASSEMBLIES

1.) ALL GLAZING IS 1/4" THICK (U.N.O.). INSULATED GLASS SHALL CONSIST OF AN EXTERIOR LAYER OF GLASS, TINTED AS SPECIFIED, AN INTERIOR LAYER OF CLEAR GLASS, FACTORY SEALED WITH A 1/2" AIR SPACE. WHERE TEMPERED GLASS IS SPECIFIED, BOTH LAYERS OF INSULATED GLASS SHALL BE TEMPERED.

2.) ANY WINDOW OR GLAZING PANELS LOCATED AT A INTERSTITIAL SPACE OR NOT READILY VISIBLE SHALL HAVE SPANDREL GLASS INSTALLED, REGARDLESS OF ANY NOTATION ELSEWHERE.

GLAZING LEGEND

- **TEM** - TYP EXT MASONRY DETAIL - HM
- **TEMA** - TYP EXT MASONRY DETAIL - ALUM
- **TICF** - TYP EXT INSUL CONC FORMS - HM
- **TICFA** - TYP EXT INSUL CONC FORMS - ALUM
- **TIM** - TYP INTERIOR MASONRY DETAIL - HM
- **TIMA** - TYP INTERIOR MASONRY DETAIL - ALUM
- **TDW** - TYP DRYWALL PARTITION DETAIL - HM
- **TDWA** - TYP DRYWALL PARTITION DETAIL - ALUM
- **HO** - DOOR HOLD OPEN (MAGNETIC OR MANUAL - SEE SPECIAL NOTES FOR MORE INFO)
- **TH** - THRESHOLD
- **SEC** - SECURITY CONTACTS (REF. ELEC. AND TECH.)
- **OH** - DENOTES OPPOSITE HAND CONFIGURATION

SCHEDULE ABBREVIATIONS

Revision / 1 | Date 11/20/2024 | ADDENDUM 02

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT SUSAN F. WISE TX 24614 STATE OF TEXAS 11/20/2024

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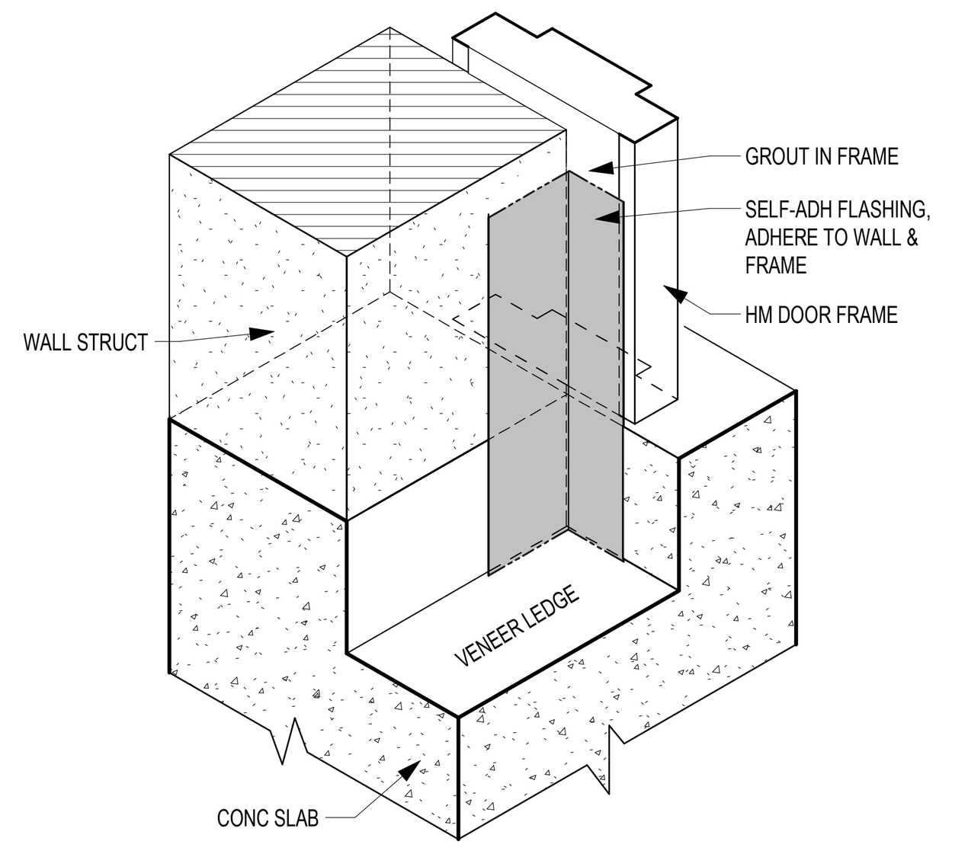
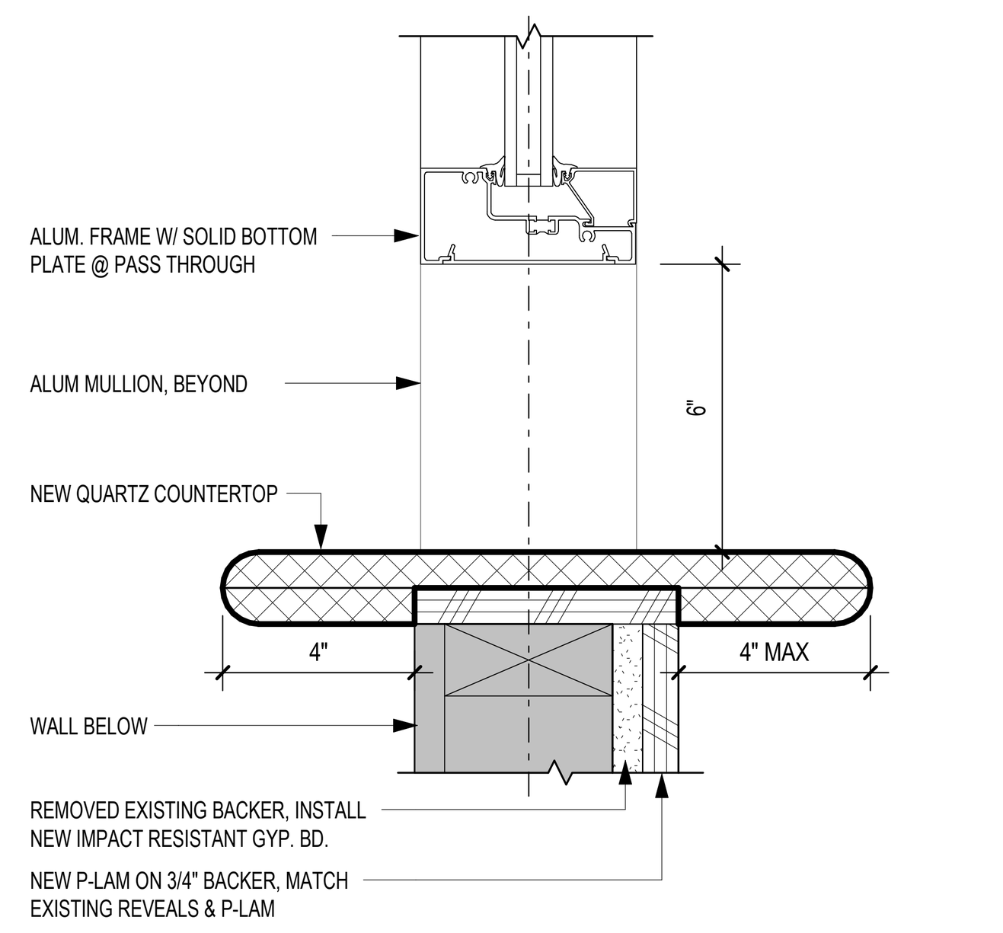
DOOR SCHEDULES

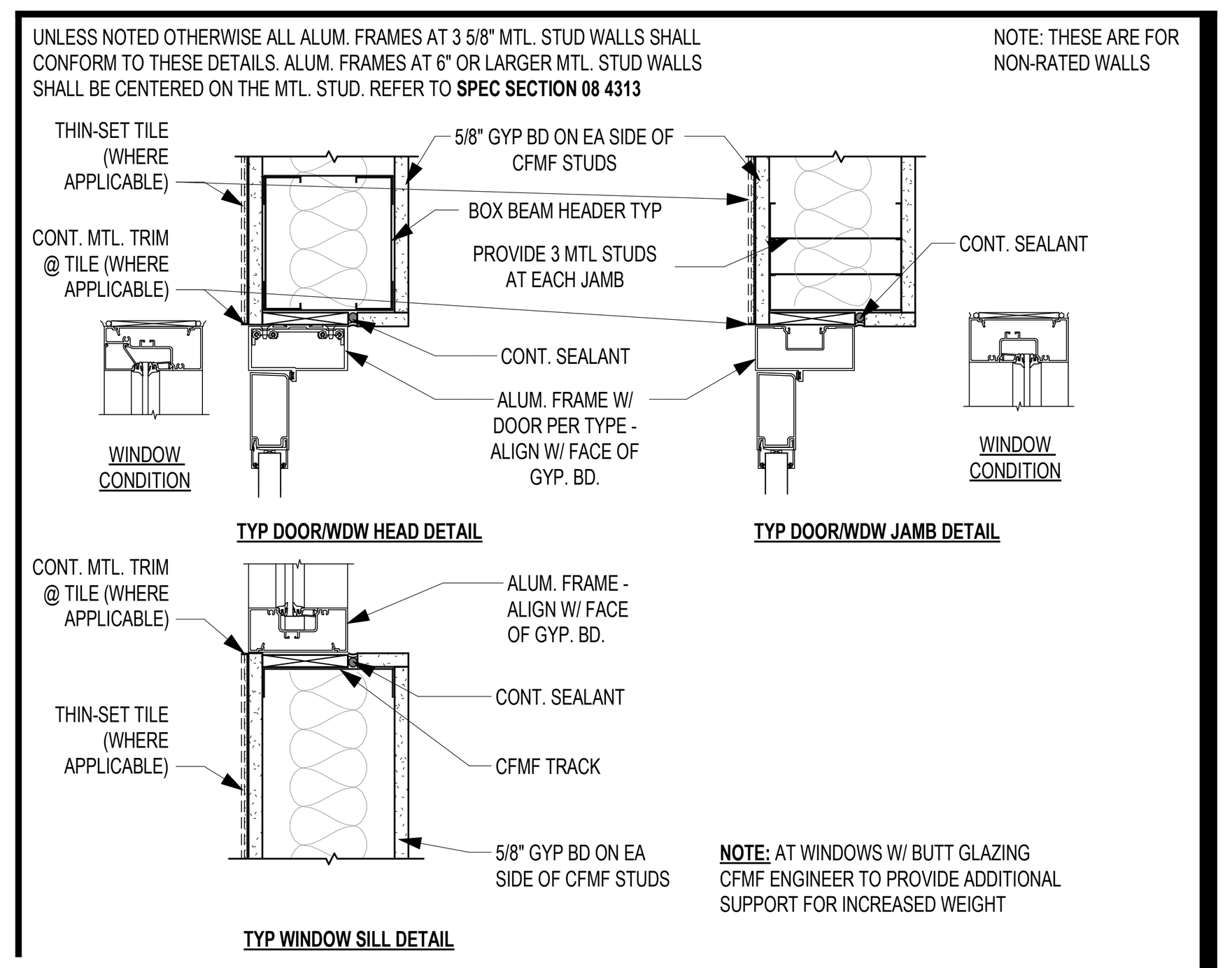
Job No. 01818-05-01
Drawn By: ZFA
Date: 11/11/2024
Sheet No. A3.02



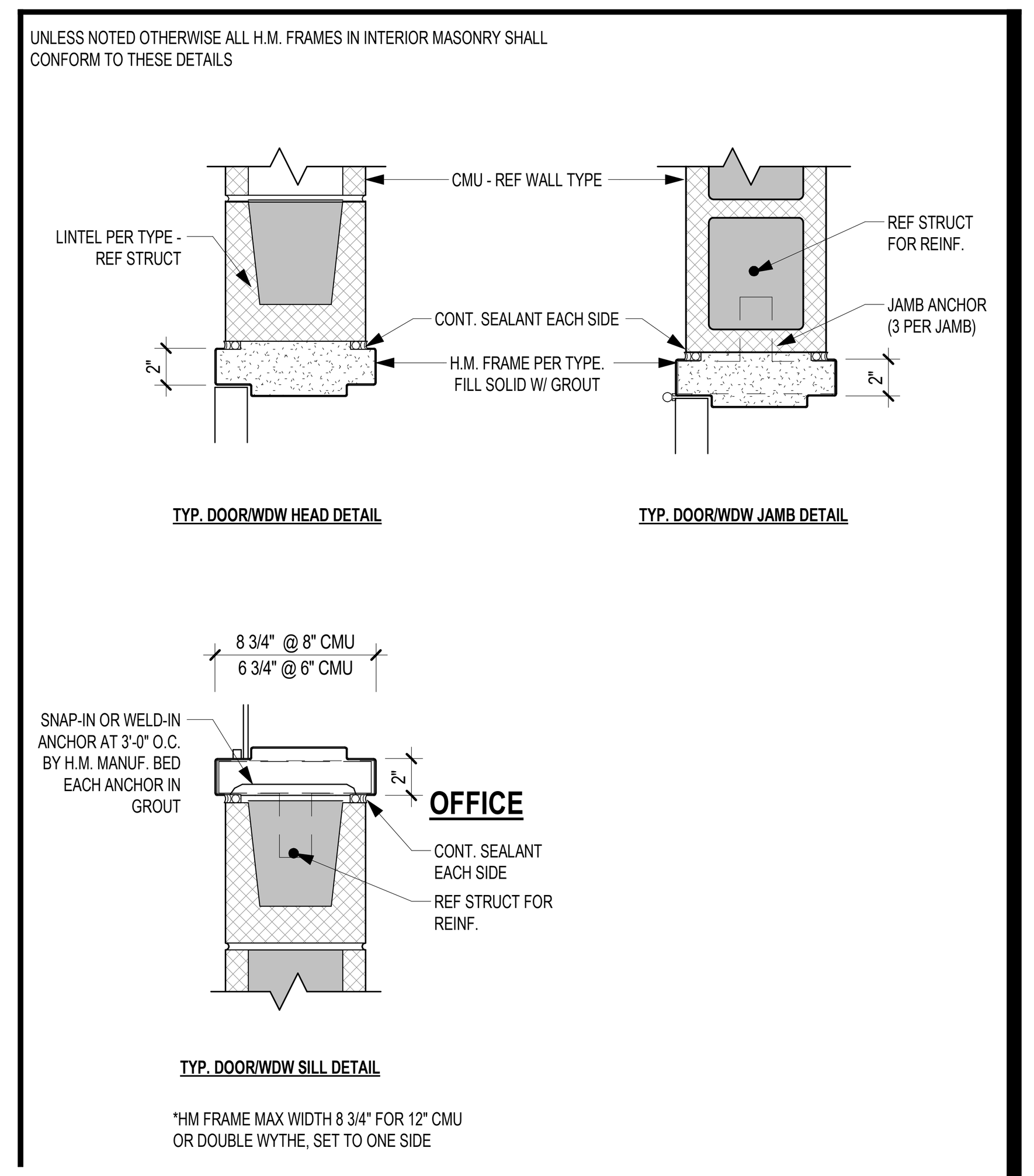
21 FLASHING AT HM DOOR FRAME
1 1/2" = 1'-0"



20 ALUM. SILL PASS THROUGH - RECEPTION
3" = 1'-0"



TYPICAL DRYWALL ALUM DETAILS (T.D.W.A.)
SCALE 1-1/2" = 1'-0



TYPICAL INTERIOR MASONRY DETAILS (T.I.M.)
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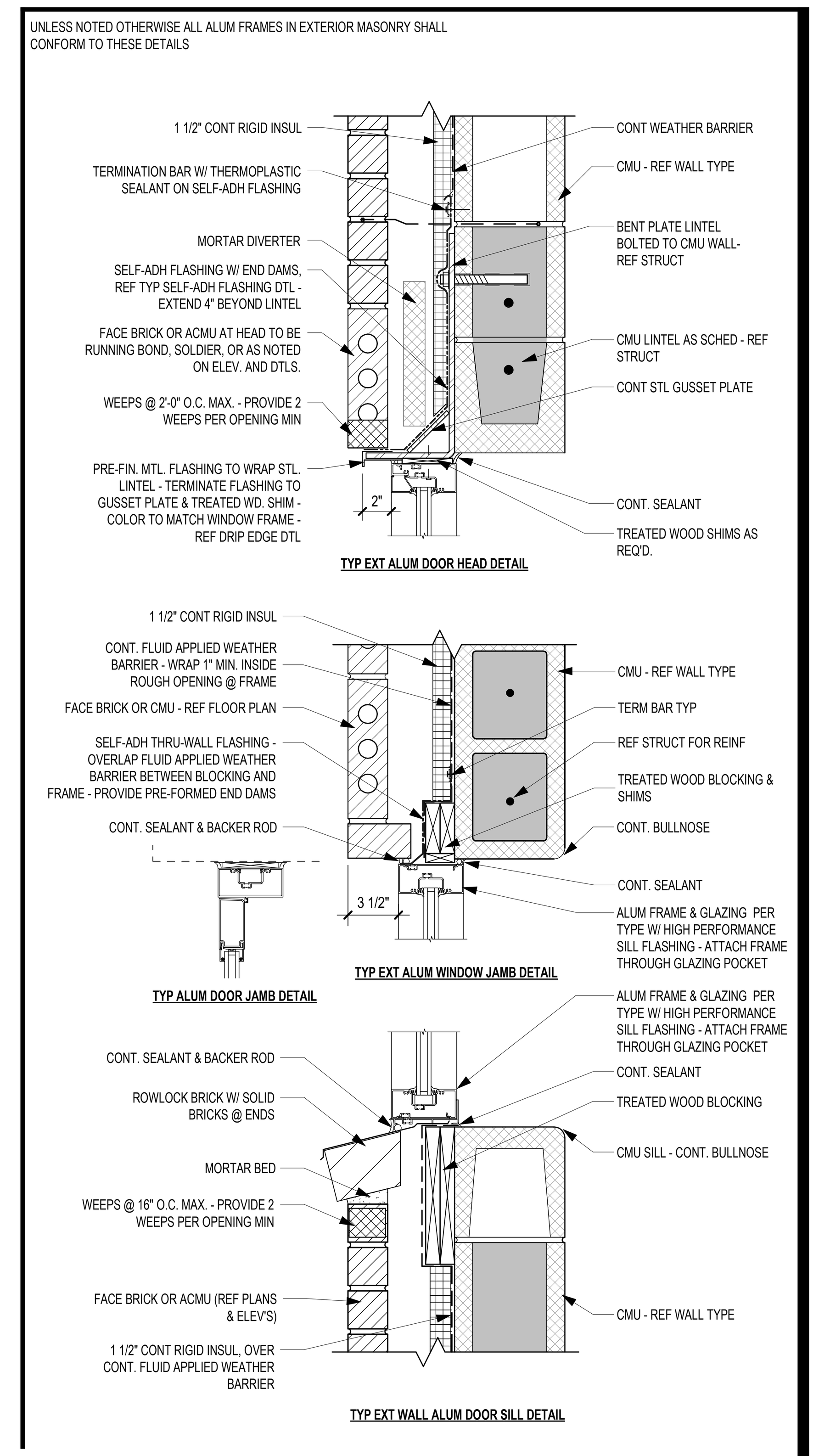
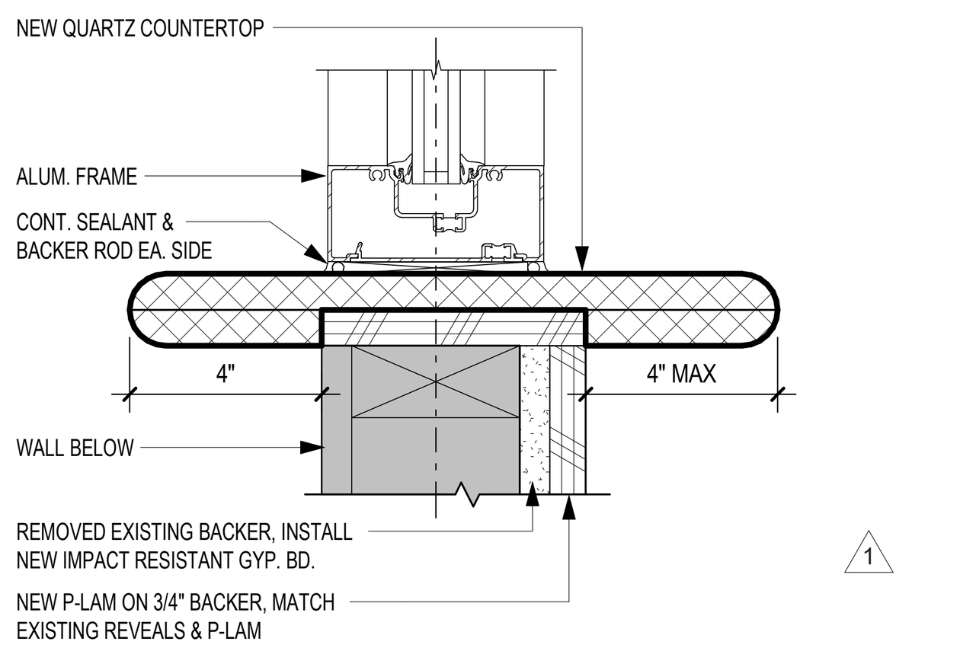
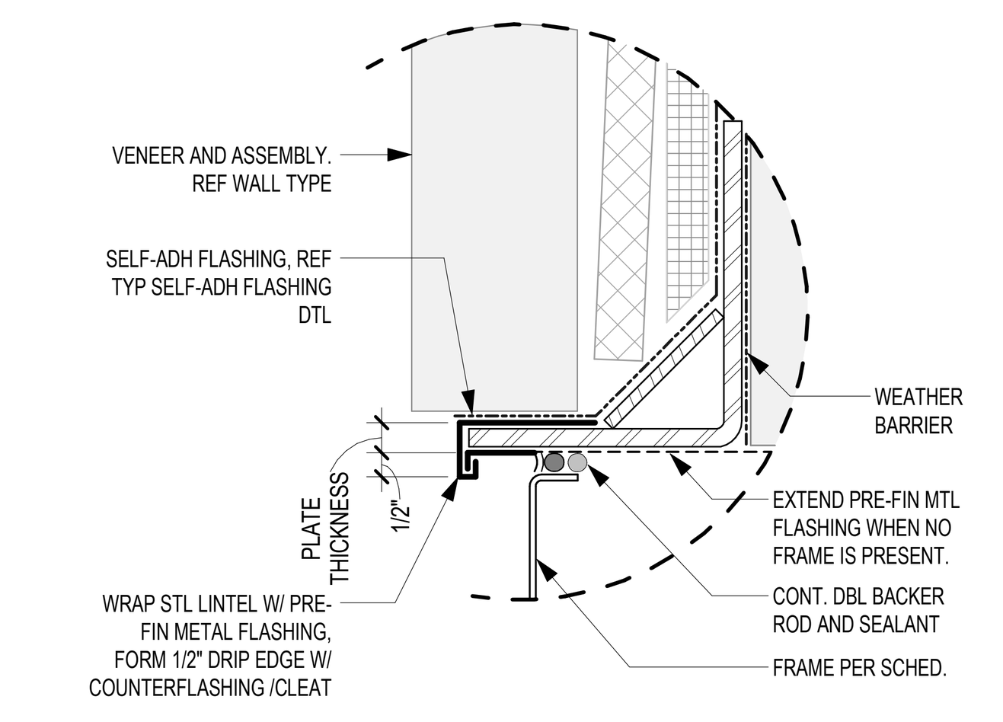


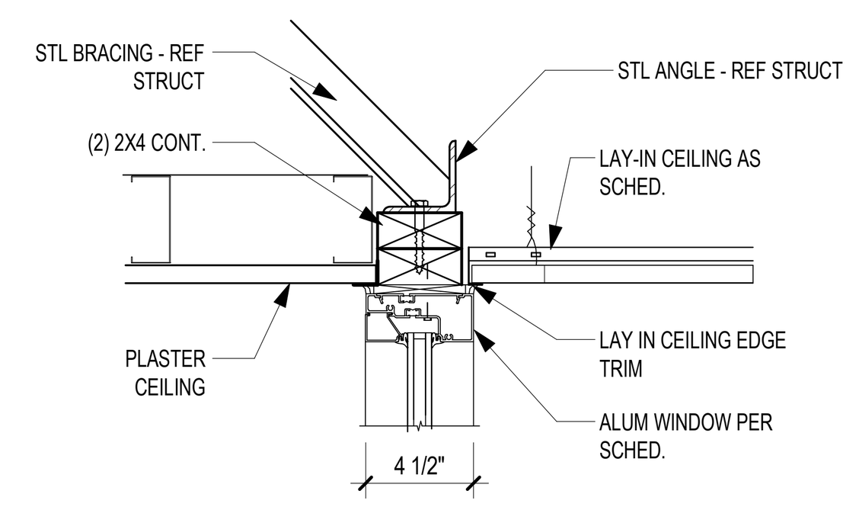
TYP EXTERIOR MASONRY ALUM DETAILS (T.E.M.A.) - KING BRICK
SCALE 1-1/2" = 1'-0



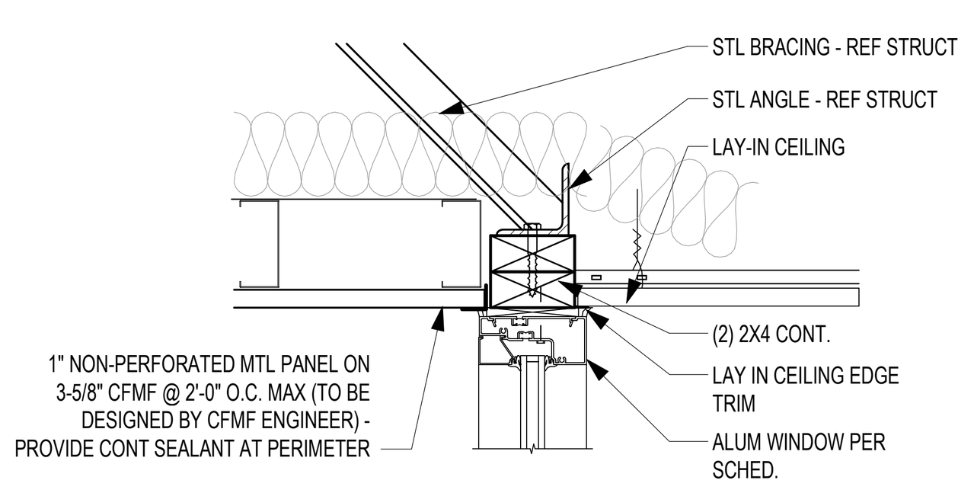
19 ALUM. SILL DETAIL - RECEPTION
3" = 1'-0"



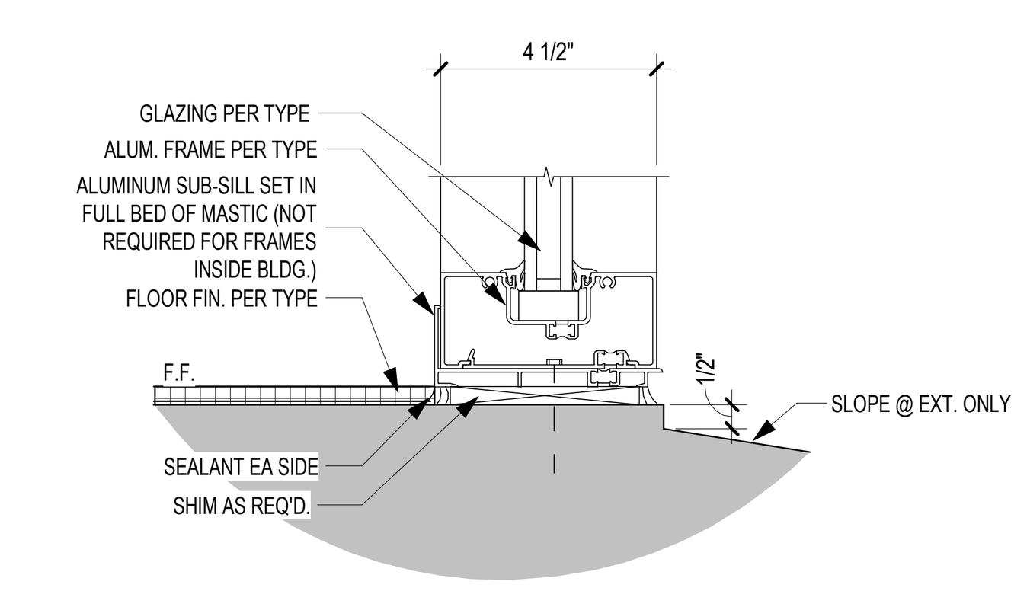
18 TYP DRIP EDGE DTL
3" = 1'-0"



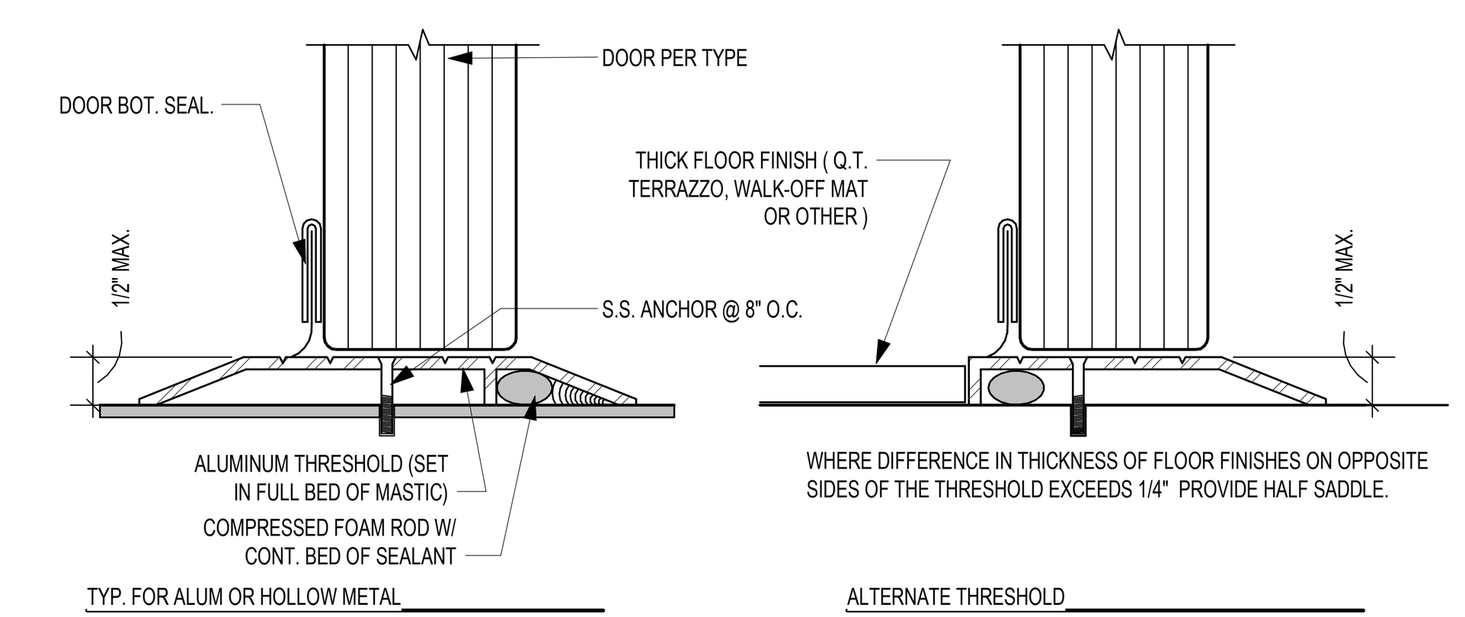
17 HEAD DLT ALUM - GYP BD / LAY-IN
1 1/2" = 1'-0"



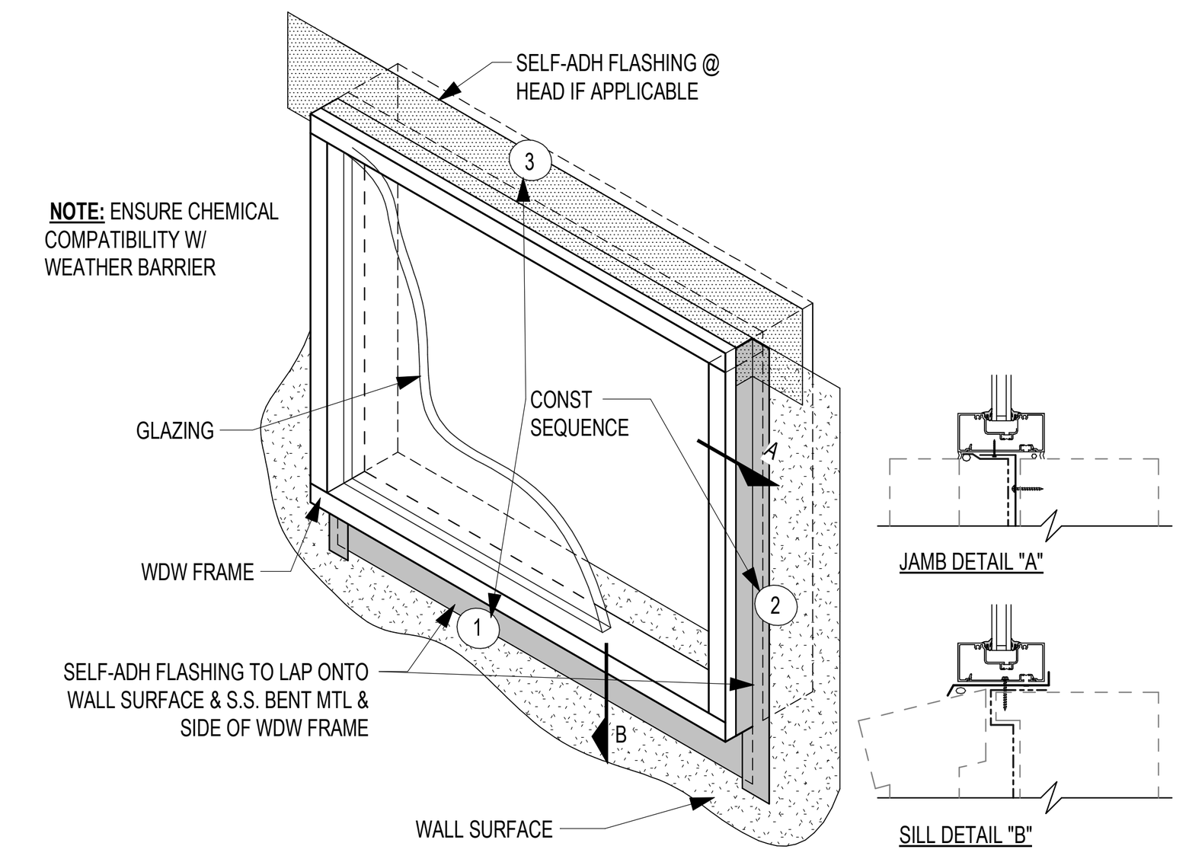
16 EXT HEAD DTL ALUM - MTL PANEL / GYP BD
1 1/2" = 1'-0"



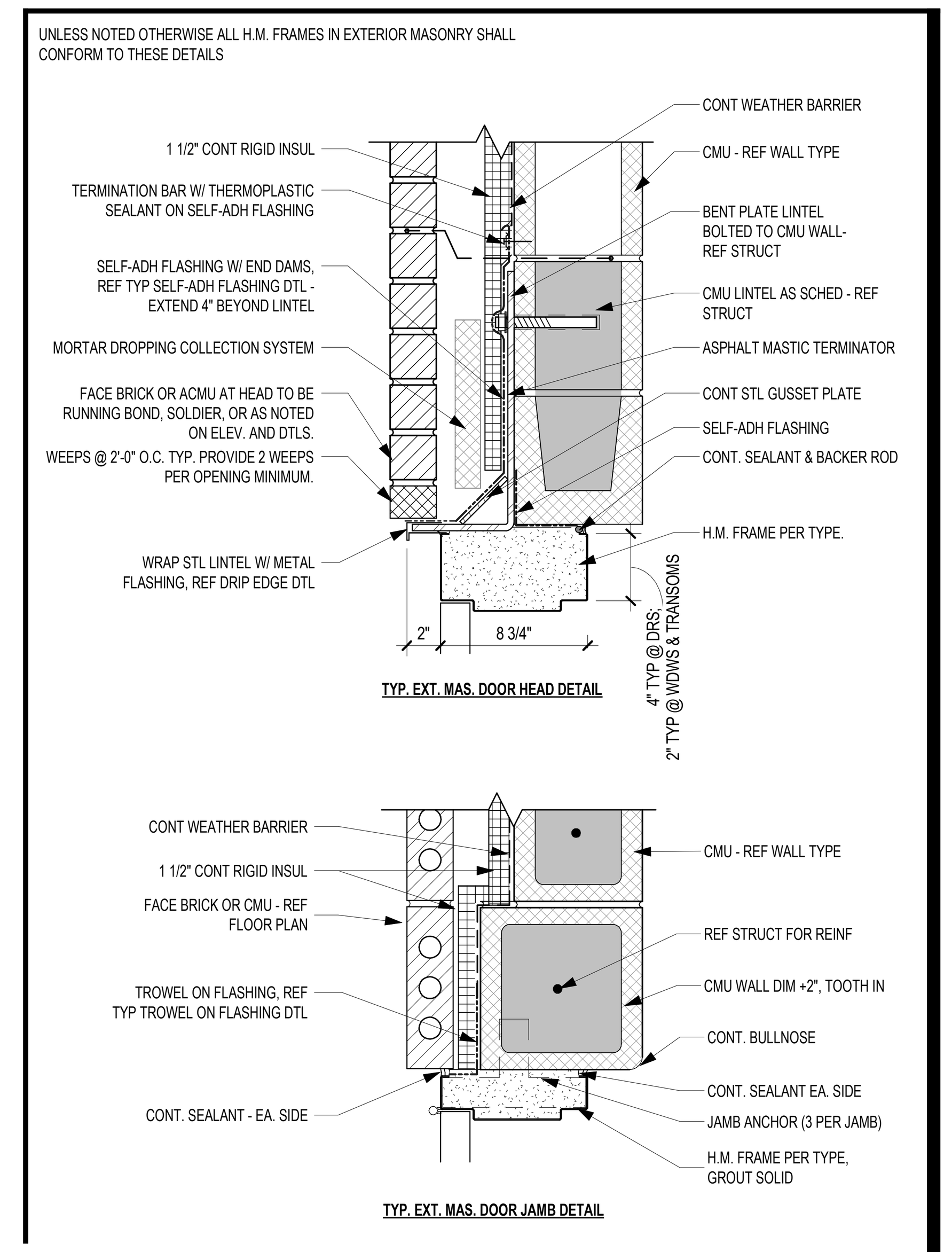
15 DOOR AND WINDOW DETAIL - SILL
3" = 1'-0"



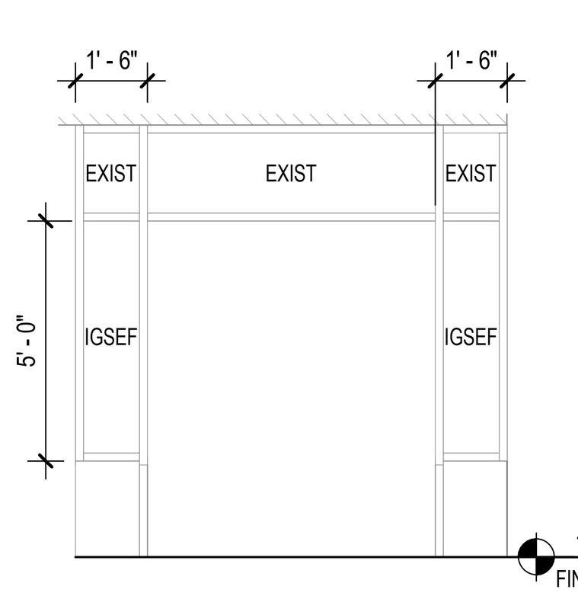
14 TYP THRESHOLDS
6" = 1'-0"



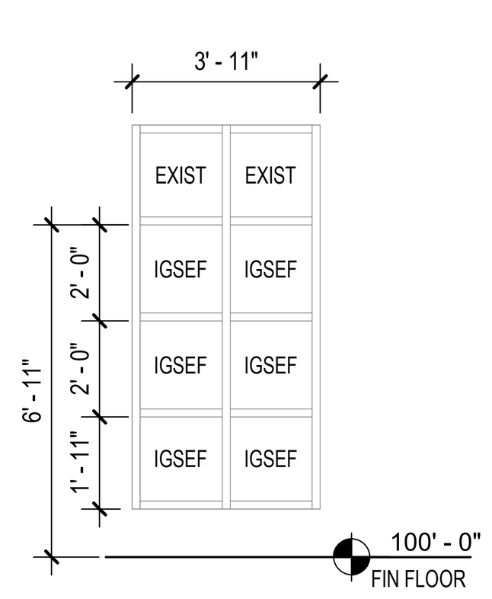
13 TYP SELF-ADH FLASHING AT WALL OPENINGS
1 : 20



TYP EXTERIOR MASONRY DETAILS (T.E.M.)
SCALE 1-1/2" = 1'-0"



12 exSF-07
1/4" = 1'-0"



11 exSF-06
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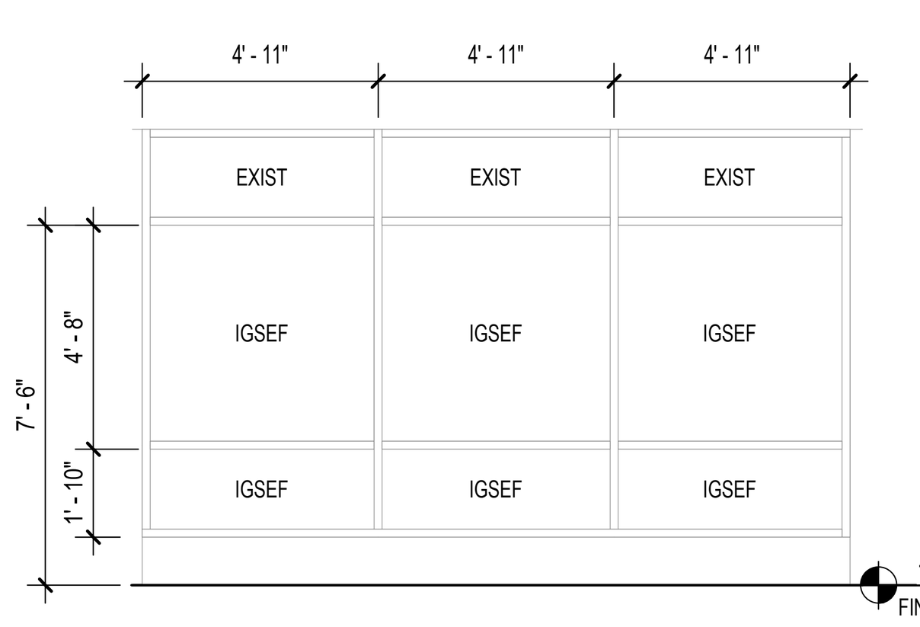

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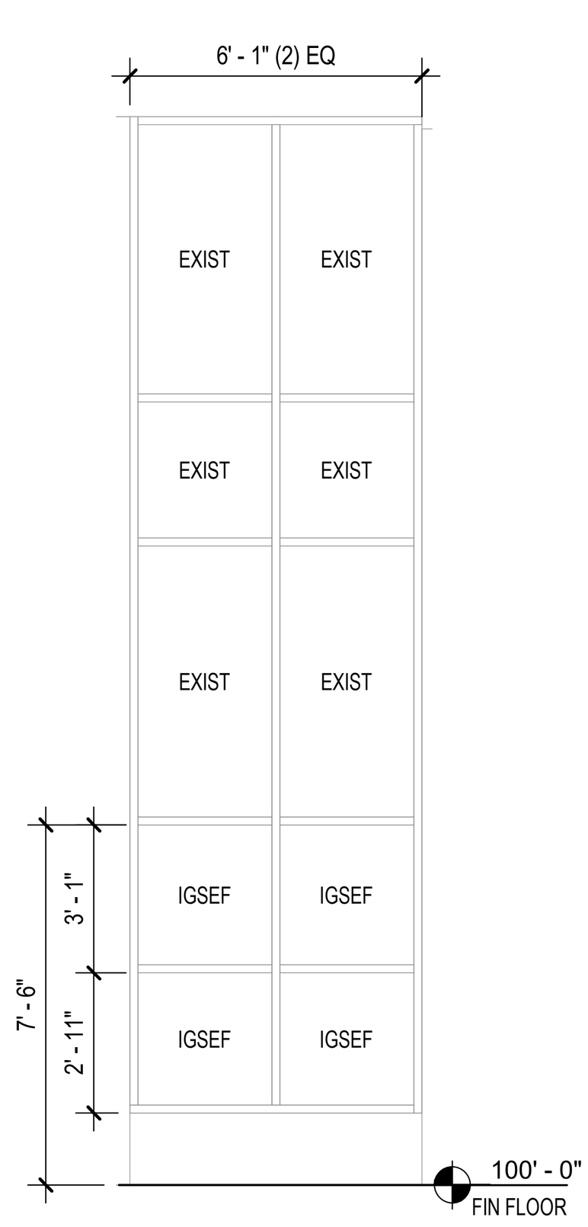
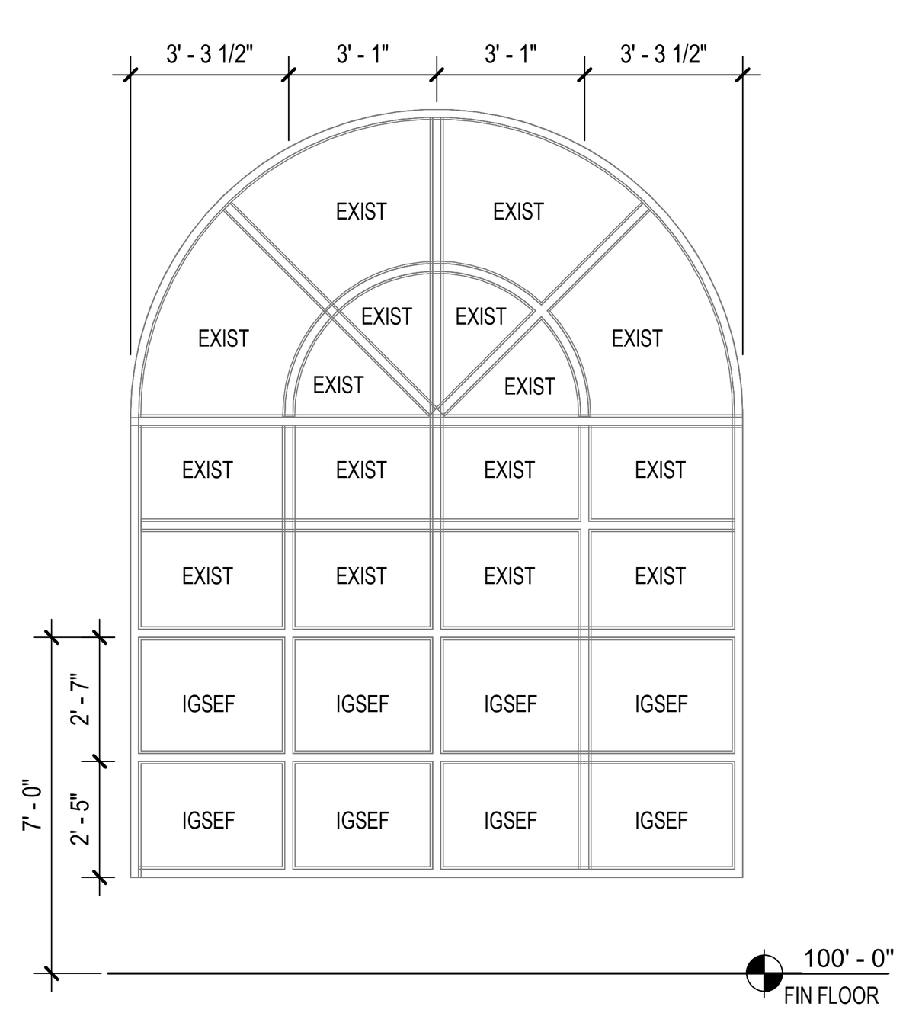
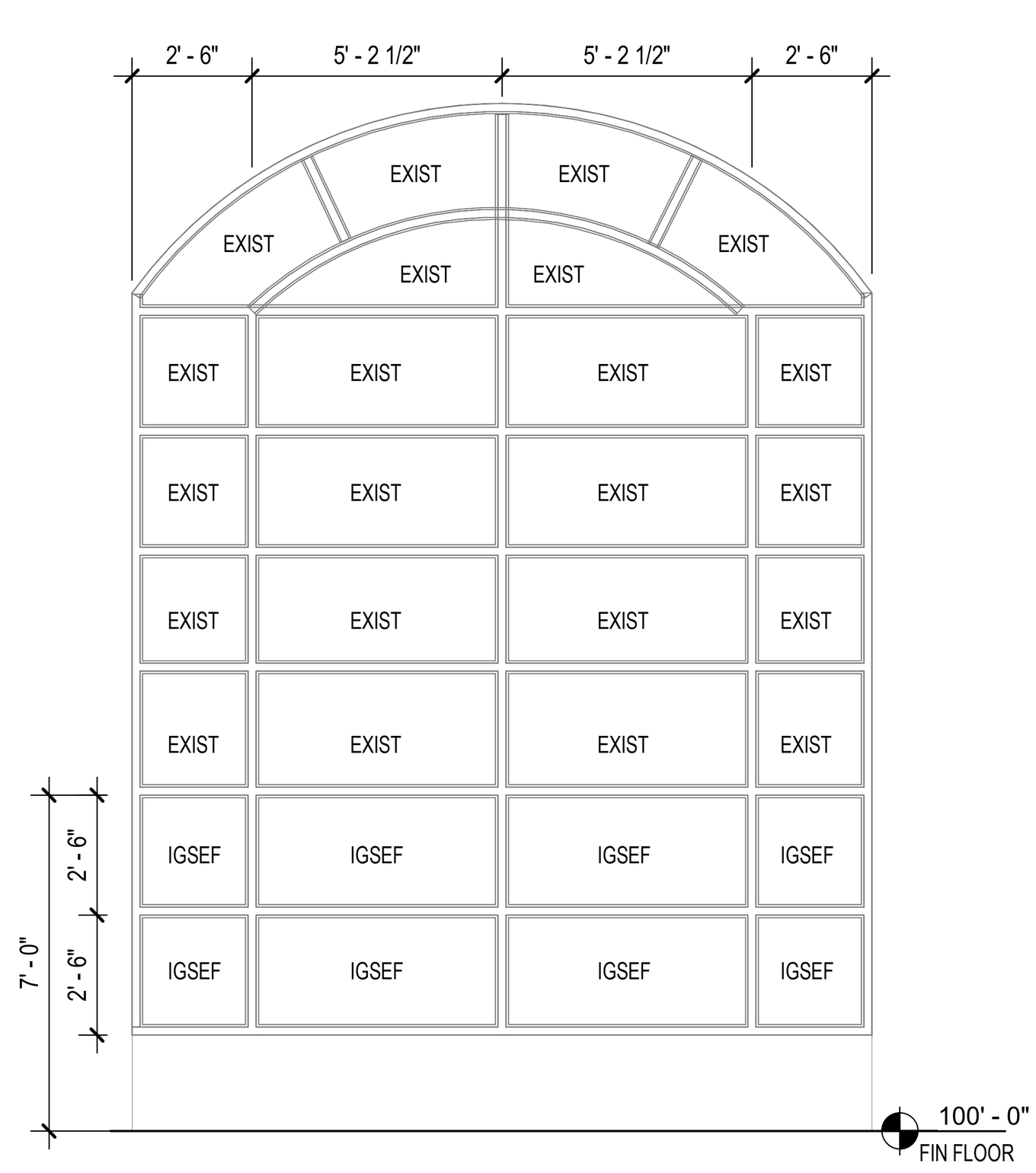


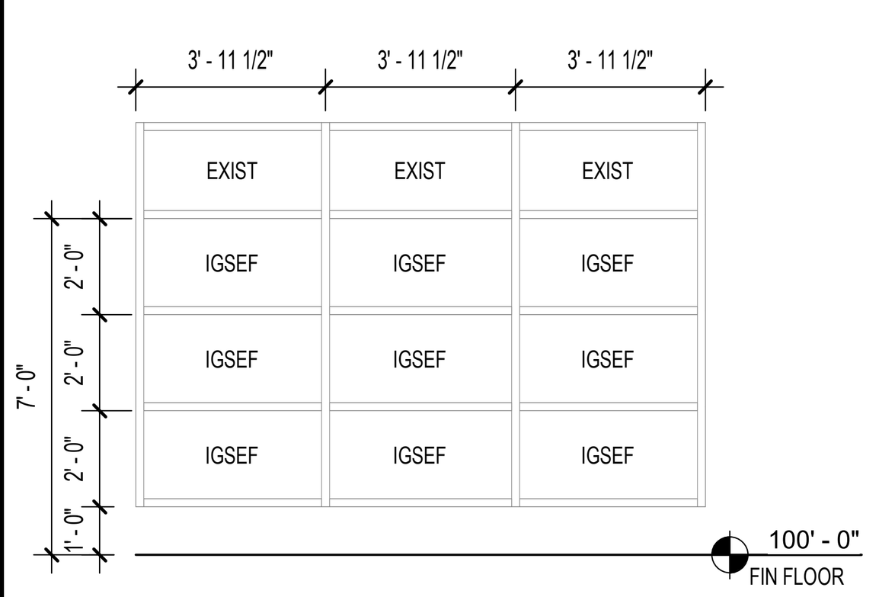
9 exSF-04
1/4" = 1'-0"



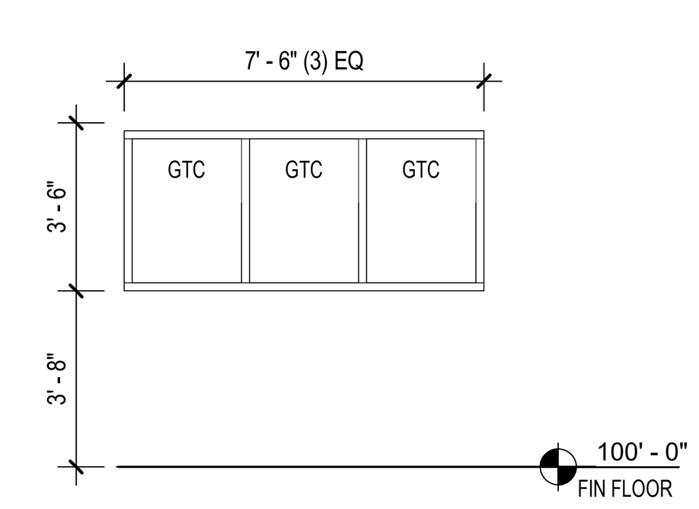
8 exSF-03
1/4" = 1'-0"



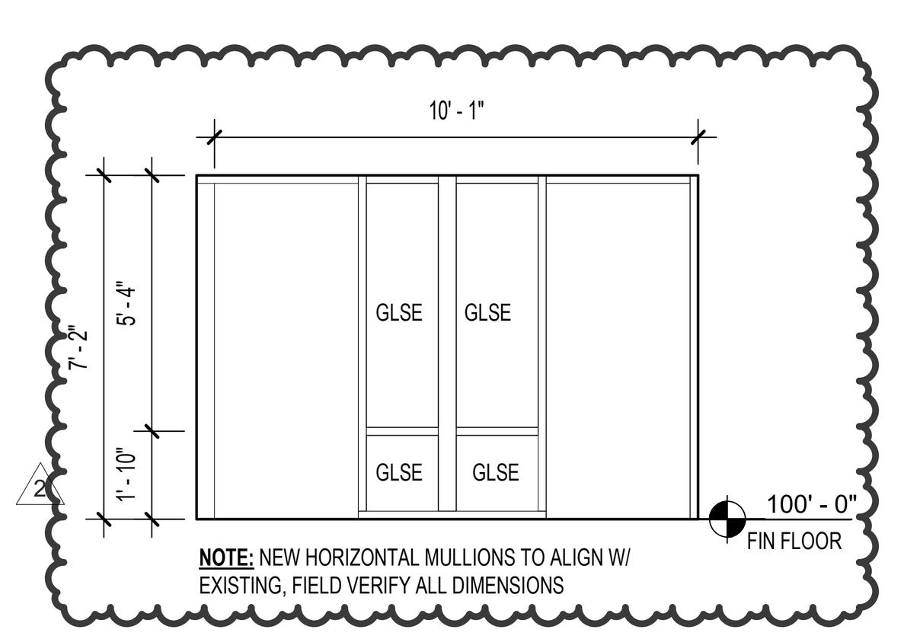
7 exSF-02
1/4" = 1'-0"



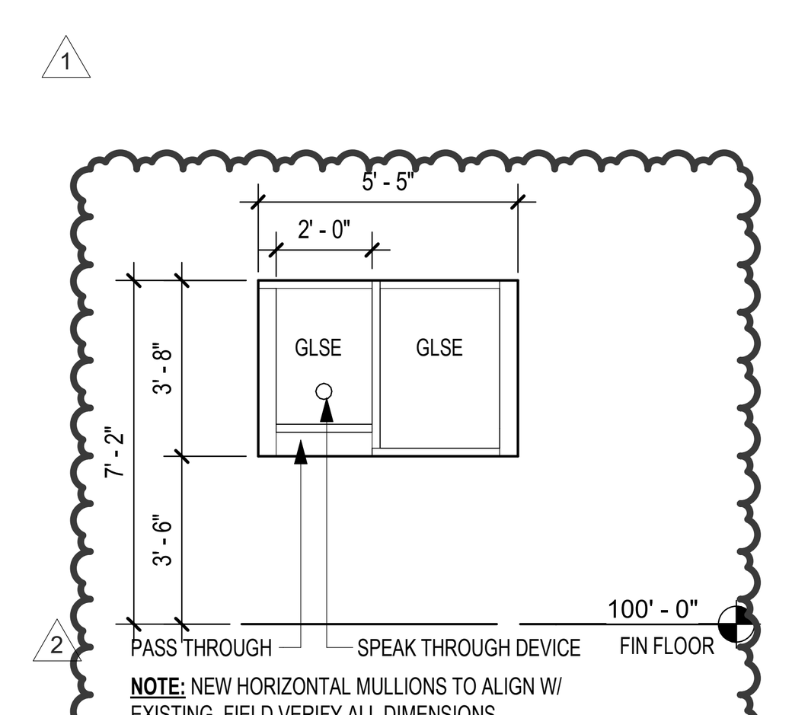
6 exSF-01
1/4" = 1'-0"



5 SF-04
1/4" = 1'-0"



4 SF-03
1/4" = 1'-0"



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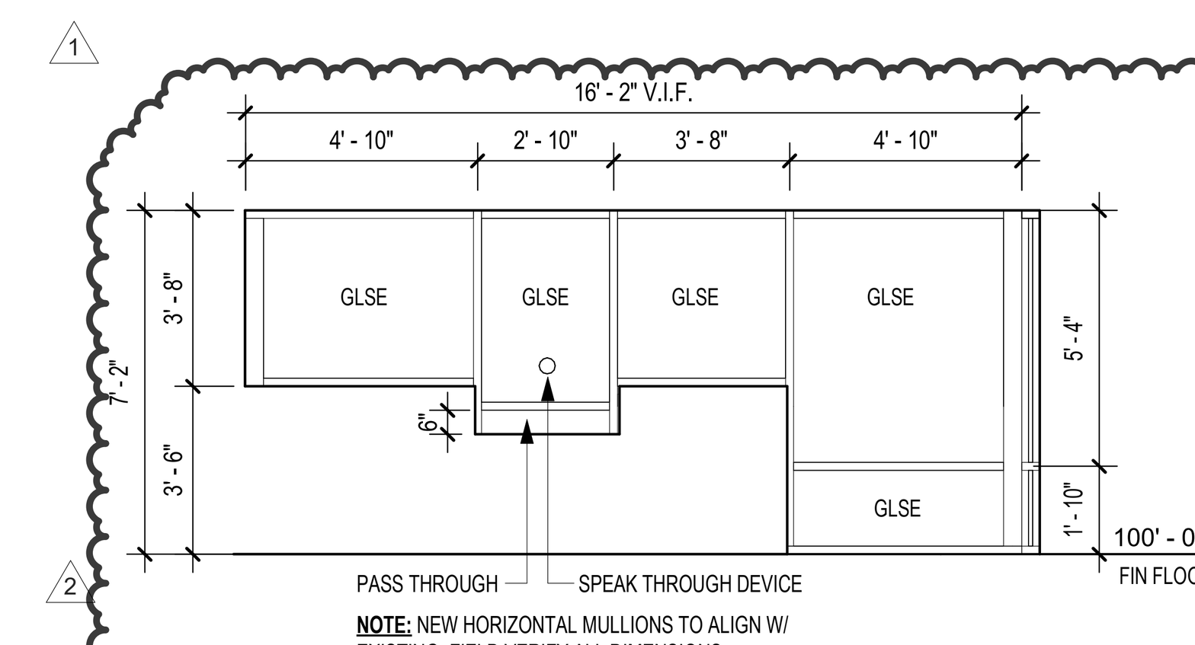
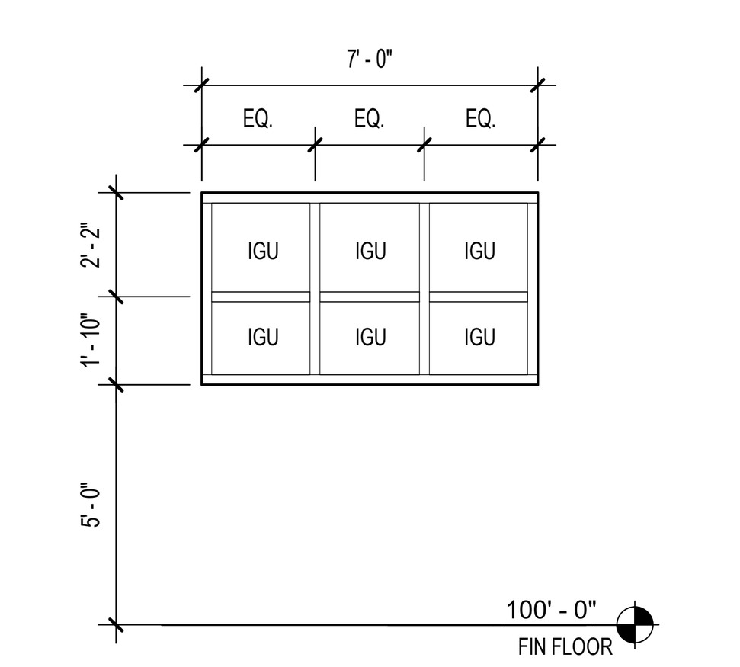
1/4" = 1'-0"



2 SF-01
1/4" = 1'-0"



1 ESF-01
1/4" = 1'-0"

DOOR ASSEMBLY NOTES

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IGSS - INSULATED GLASS STRUCTURAL SILICONE GLAZED

IGU - INSULATED GLASS UNIT

GCP - GLASS-CLAD POLYCARBONATE

GDF - GLASS DECORATIVE FILM

GE - GLASS ETCHED

GEBG - GLASS EXTERIOR BUTT JOINT

GFRR - GLASS FIRE-RESISTANCE-RATED

GFPR - GLASS FIRE-PROTECTION-RATED

GIBJG - GLASS INTERIOR BUTT JOINT

GLSA - GLASS LAMINATED SAFETY

GLSE - GLASS LAMINATED SECURITY

GSEF - GLASS SECURITY FILM

GTC - GLASS TEMPERED CLEAR

MIP - METAL INSULATED PANEL

MIR - UNFRAMED MIRROR

MIRT - TRANSPARENT ONE-WAY MIRROR

SCWA - SOUND CONTROL WINDOW ASSEMBLY

TWRA - TRANSLUCENT WALL & ROOF ASSEMBLIES

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2.) ANY WINDOW OR GLAZING PANELS LOCATED AT A INTERSTITIAL SPACE OR NOT READILY VISIBLE SHALL HAVE SPANDREL GLASS INSTALLED, REGARDLESS OF ANY NOTATION ELSEWHERE.

SCHEDULE ABBREVIATIONS

TEM -	TYP EXT MASONRY DETAIL - HM
TEMA-	TYP EXT MASONRY DETAIL - ALUM
TICF -	TYP EXT INSUL CONC FORMS - HM
TICFA -	TYP EXT INSUL CONC FORMS - ALUM
TIM -	TYP INTERIOR MASONRY DETAIL - HM
TIMA -	TYP INTERIOR MASONRY DETAIL - ALUM
TDW -	TYP DRYWALL PARTITION DETAIL - HM
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SEC -	SECURITY CONTACTS (REF. ELEC. AND TECH.)
OH -	DENOTES OPPOSITE HAND CONFIGURATION

Revision /	Date	
1	11/14/2024	ADDENDUM 01
2	11/20/2024	ADDENDUM 02

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD
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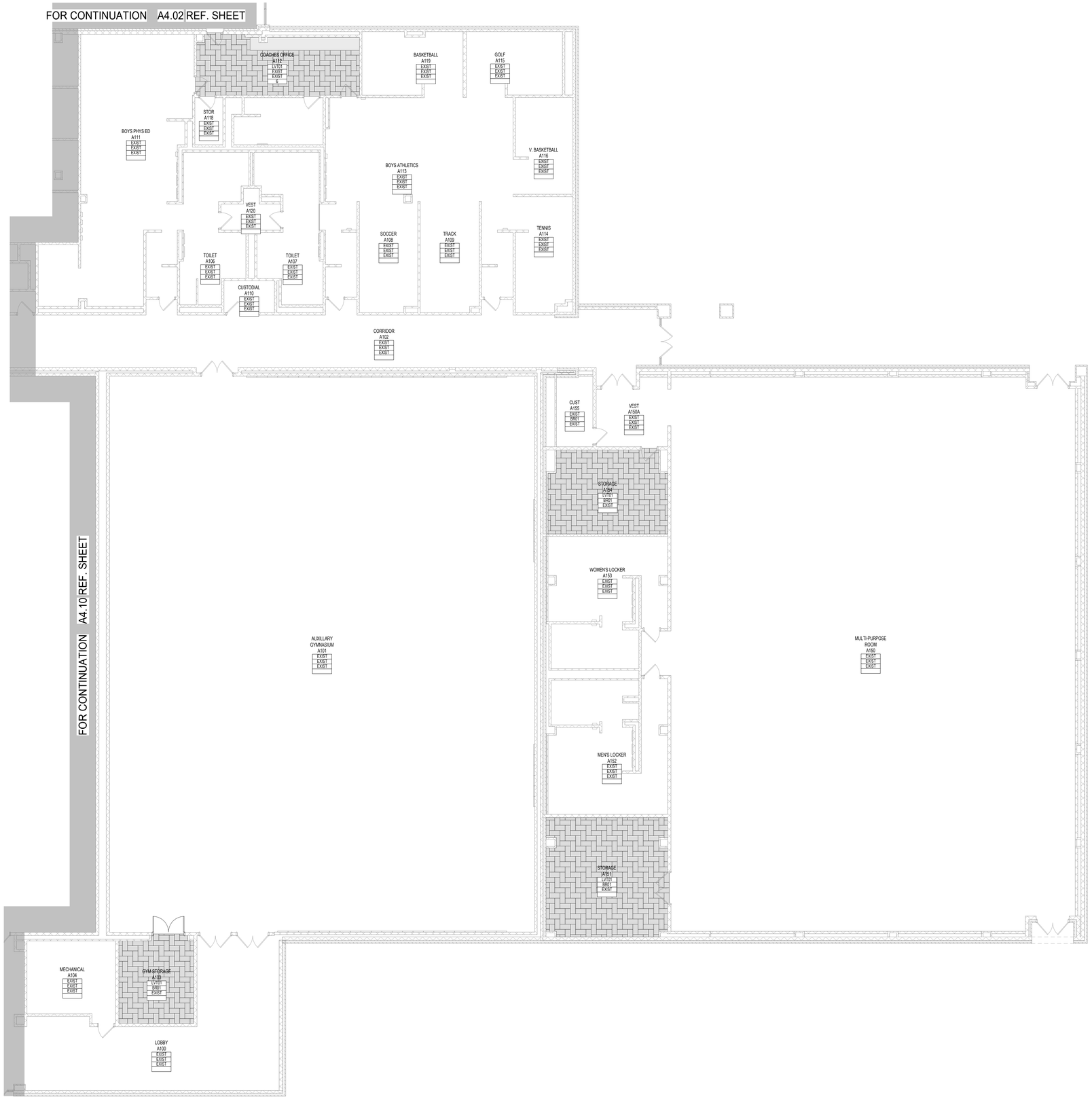
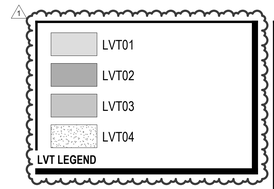
STOREFRONT CONFIGURATIONS & DOOR AND WINDOW DETAILS

Job No.	Sheet No.
01818-05-01	A3.03
Drawn By: ZFA	
Date: 11/11/2024	



1 FINISH PLAN - AREA A - FIRST FLOOR
1/8" = 1'-0"



REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM ← ROOM NAME
025 ← ROOM NUMBER

TYP FLOOR FINISH →	LVT01
WALL BASE FINISH →	BR01
TYP WALL FINISH →	PNT01
REMARKS →	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATION SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — XY: MATERIAL TYPE; ##: FINISH COLOR AND MATERIAL AS NOTED IN SPEC. SECTION 01 6210

AL - ALUMINUM
AP - ACOUSTICAL PANELS
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
CGB - CERAMIC GLAZED BASE
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CWF - CUSTOM WINDOW FILM
EPNT - EPOXY PAINT
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MS - METAL SOFFIT
PL - PLASTIC LAMINATE
PNT - PAINT
RWP - REFINISHED WOOD STRIP AND PLANK FLOORING
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SSM - SOLID SURFACE MATERIAL
TB - TACK BOARD
TS - TACKABLE SURFACE
VSF - VINYL SHEET FLOORING
WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

A1.1 — ELEVATION REFERENCE
1 / A1.1 — CALLOUT REFERENCE
1 / A101 — SIM WALL SECTION REFERENCE
B — B - HORIZONTAL BLINDS; SMB - MOTORIZED SHADES - BLACKOUT; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; S - WINDOW SHADES
FLOOR INSTALLATION DIRECTION
FLOOR TRANSITION
FINISH — WALL FINISH TAG

FINISH PLAN LEGEND APPLIES TO SECTION PLANS

A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
B. PROVIDE **BR01** AT **LVT** AND **CPT** FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS, U.N.O. (1)
C. PROVIDE **BRV01** AT **WMS** FLOOR FINISH AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
D. VERIFY EXACT FLOOR TILE PATTERN FOR ALL ROOMS AS DEFINED TO RECEIVE **LVT01, LVT02**, AND **LVT03**. COORDINATE WITH ARCHITECT.

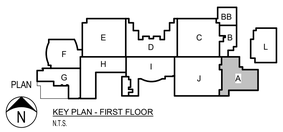
FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REFER TO INTERIOR ELEVATIONS FOR TYPICAL CORRIDOR WALL PAINT PATTERN.
2. REFER TO ENLARGED FLOOR PATTERN PLAN ON TYP INTERIOR DETAILS SHEET FOR FLOOR LVT FLOOR PATTERN LAYOUT.
3. EXISTING LIGHTED RUBBER NOSING IN AUDITORIUM TO REMAIN. PROTECT DURING REMOVAL OF EXISTING CARPET & INSTALLATION OF NEW CARPET.
4. PROVIDE BLACK MINI BLINDS AT WINDOWS TO BLACK BOX
5. PROVIDE NEW BR02 BASE AT WALLS. PROVIDE NEW BR01 BASE AT EXISTING CASEWORK.
6. EXISTING CASEWORK TO REMAIN. PROVIDE NEW RUBBER BASE AS SCHEDULED AT EXISTING CASEWORK. (1)

FINISH REMARKS



KEY PLAN - FIRST FLOOR
N.T.S.

Project:
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FOR
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Revision /	Date	
1	11/21/2024	ADDENDUM 03

REGISTERED ARCHITECT — BRIAN F. WHITE — 24614 — STATE OF TEXAS
11/20/2024

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AREA A1 - FINISH PLAN - FIRST FLOOR

Job No. 01818-05-01	Sheet No. A4.01
Drawn By: MJ, KM	
Date: 11/11/2024	

1 FINISH PLAN - AREA E - FIRST FLOOR
1/8" = 1'-0"

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

FINISH KEY

ROOM NAME	CLASSROOM
ROOM NUMBER	025
TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATION SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE; FINISH COLOR AND MATERIAL AS NOTED IN SPEC. SECTION 01 6210

- **AL** - ALUMINUM
- **AP** - ACOUSTICAL PANELS
- **BRK** - BRICK
- **BR** - BASE, RUBBER
- **BRV** - BASE, RUBBER VENTED
- **CGB** - CERAMIC GLAZED BASE
- **COP** - CONCRETE POLISHED
- **COS** - CONCRETE SEALED
- **CPT** - CARPET, SHEET
- **CWF** - CUSTOM WINDOW FILM
- **EPNT** - EPOXY PAINT
- **LVT** - LUXURY VINYL TILE
- **MB** - MARKER BOARD
- **MS** - METAL SOFFIT
- **PL** - PLASTIC LAMINATE
- **PNT** - PAINT
- **RWP** - REFINISHED WOOD STRIP AND PLANK FLOORING
- **SPEC** - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
- **SSM** - SOLID SURFACE MATERIAL
- **TB** - TACK BOARD
- **TS** - TACKABLE SURFACE
- **VSF** - VINYL SHEET FLOORING
- **WMS** - MASONITE WOOD FLOORING
- **WOM** - WALK-OFF MAT

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- 1 / A101 SIM — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; SMB - MOTORIZED SHADES - BLACKOUT; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; S - WINDOW SHADES
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG

FINISH PLAN GENERAL NOTES

A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.

B. PROVIDE **BR01** AT **LVT** AND **CPT** FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS, U.N.O.

C. PROVIDE **BRV01** AT **WMS** FLOOR FINISH AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.

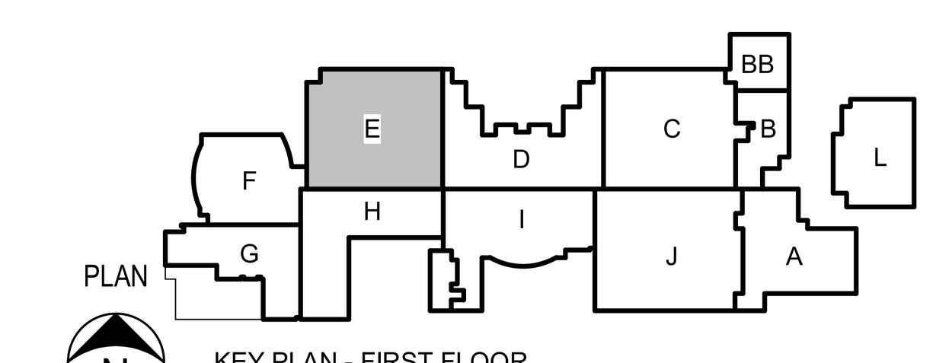
D. VERIFY EXACT FLOOR TILE PATTERN FOR ALL ROOMS AS DEFINED TO RECEIVE **LVT01**, **LVT02**, AND **LVT03**. COORDINATE WITH ARCHITECT.

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REFER TO INTERIOR ELEVATIONS FOR TYPICAL CORRIDOR WALL PAINT PATTERN.
2. REFER TO ENLARGED FLOOR PATTERN PLAN ON TYP INTERIOR DETAILS SHEET FOR FLOOR LVT FLOOR PATTERN LAYOUT.
3. EXISTING LIGHTED RUBBER NOSING IN AUDITORIUM TO REMAIN. PROTECT DURING REMOVAL OF EXISTING CARPET & INSTALLATION OF NEW CARPET
4. PROVIDE BLACK MINI BLINDS AT WINDOWS TO BLACK BOX
5. PROVIDE NEW BR02 BASE AT WALLS. PROVIDE NEW BR01 BASE AT EXISTING CASEWORK
6. EXISTING CASEWORK TO REMAIN. PROVIDE NEW RUBBER BASE AS SCHEDULED AT EXISTING CASEWORK.



KEY PLAN - FIRST FLOOR
N.T.S.

Revision /	Date	
1	11/21/2024	ADDENDUM 03

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY ROAD, CYPRESS, TEXAS 77433

REGISTERED ARCHITECT SUSAN F. WISA TX 24614 STATE OF TEXAS 11/20/2024

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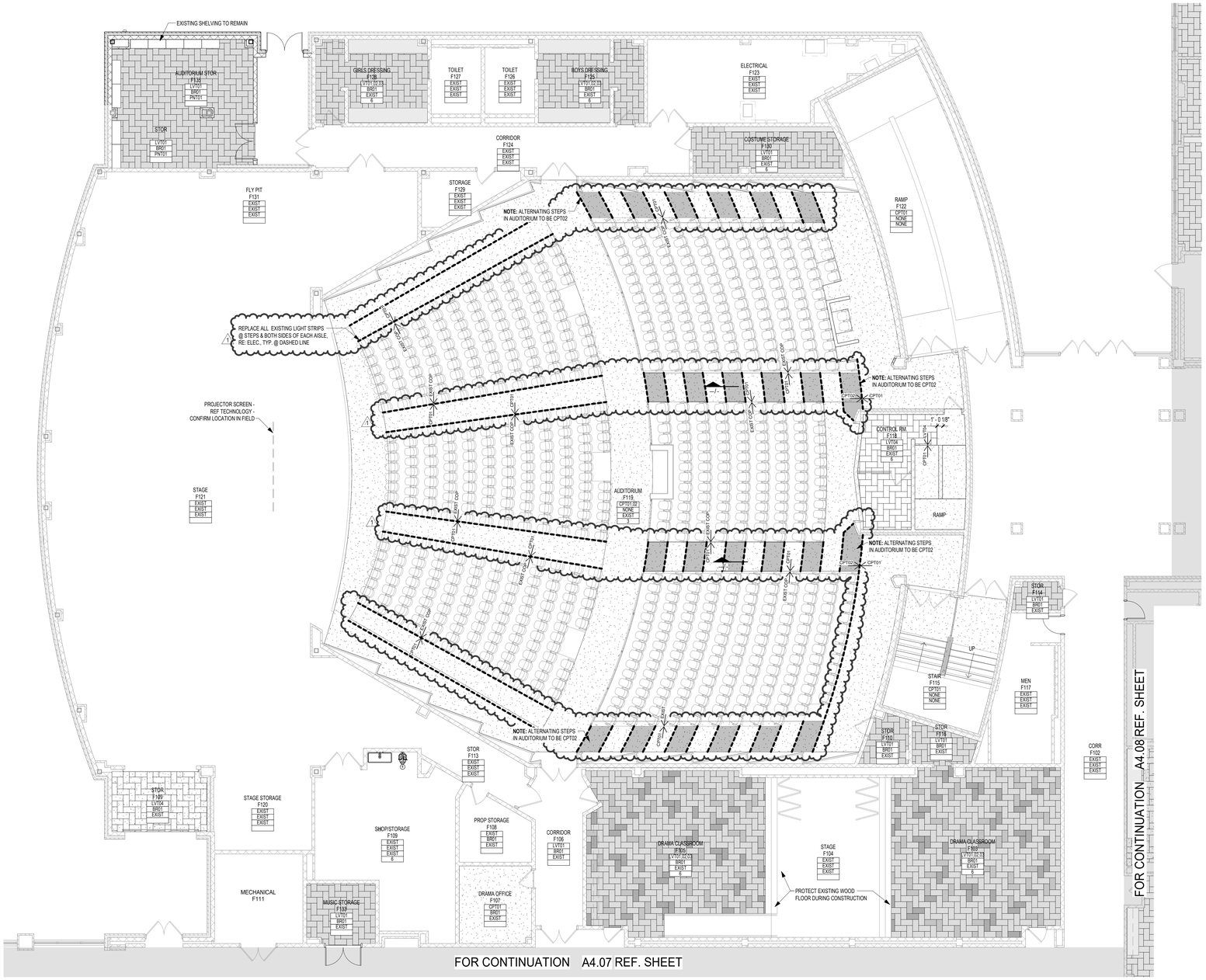
AREA E1 - FINISH PLAN - FIRST FLOOR

Job No. 01818-05-01	**Sheet No.** A4.05
Drawn By: MJ, KM	
Date: 11/11/2024	



1 FINISH PLAN - AREA F - FIRST FLOOR
1/8" = 1'-0"

2

LVT01
LVT02
LVT03
LVT04

LVT LEGEND

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM ← ROOM NAME
025 ← ROOM NUMBER
TYP FLOOR FINISH → LVT01
WALL BASE FINISH → BR01
TYP WALL FINISH → PNT01
REMARKS → 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATION SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — XY: MATERIAL TYPE; ##: FINISH COLOR AND MATERIAL AS NOTED IN SPEC. SECTION 01 6210

AL - ALUMINUM
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BRK - BRICK
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BRV - BASE, RUBBER VENTED
CGB - CERAMIC GLAZED BASE
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CWF - CUSTOM WINDOW FILM
EPNT - EPOXY PAINT
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
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WOM - WALK-OFF MAT

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

A1.1 — ELEVATION REFERENCE
1 / A1.1 — CALLOUT REFERENCE
SIM / 1 / A101 — WALL SECTION REFERENCE
B — B - HORIZONTAL BLINDS; SMB - MOTORIZED SHADES - BLACKOUT; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; S - WINDOW SHADES
FLOOR INSTALLATION DIRECTION
FLOOR TRANSITION
FINISH — WALL FINISH TAG

FINISH PLAN LEGEND APPLIES TO SECTION PLANS

A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
B. PROVIDE **BR01** AT **LVT** AND **CPT** FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS, U.N.O.
C. PROVIDE **BRV01** AT **WMS** FLOOR FINISH AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
D. VERIFY EXACT FLOOR TILE PATTERN FOR ALL ROOMS AS DEFINED TO RECEIVE **LVT01**, **LVT02**, AND **LVT03**. COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

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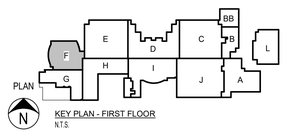
3. EXISTING LIGHTED RUBBER NOSING IN AUDITORIUM TO REMAIN. PROTECT DURING REMOVAL OF EXISTING CARPET & INSTALLATION OF NEW CARPET
4. PROVIDE BLACK MINI BLINDS AT WINDOWS TO BLACK BOX
5. PROVIDE NEW BR02 BASE AT WALLS. PROVIDE NEW BR01 BASE AT EXISTING CASEWORK.
6. EXISTING CASEWORK TO REMAIN. PROVIDE NEW RUBBER BASE AS SCHEDULED AT EXISTING CASEWORK.

FINISH REMARKS



KEY PLAN - FIRST FLOOR
N.T.S.

Revision /	Date
1	11/20/2024 ADDENDUM 02
2	11/21/2024 ADDENDUM 03

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
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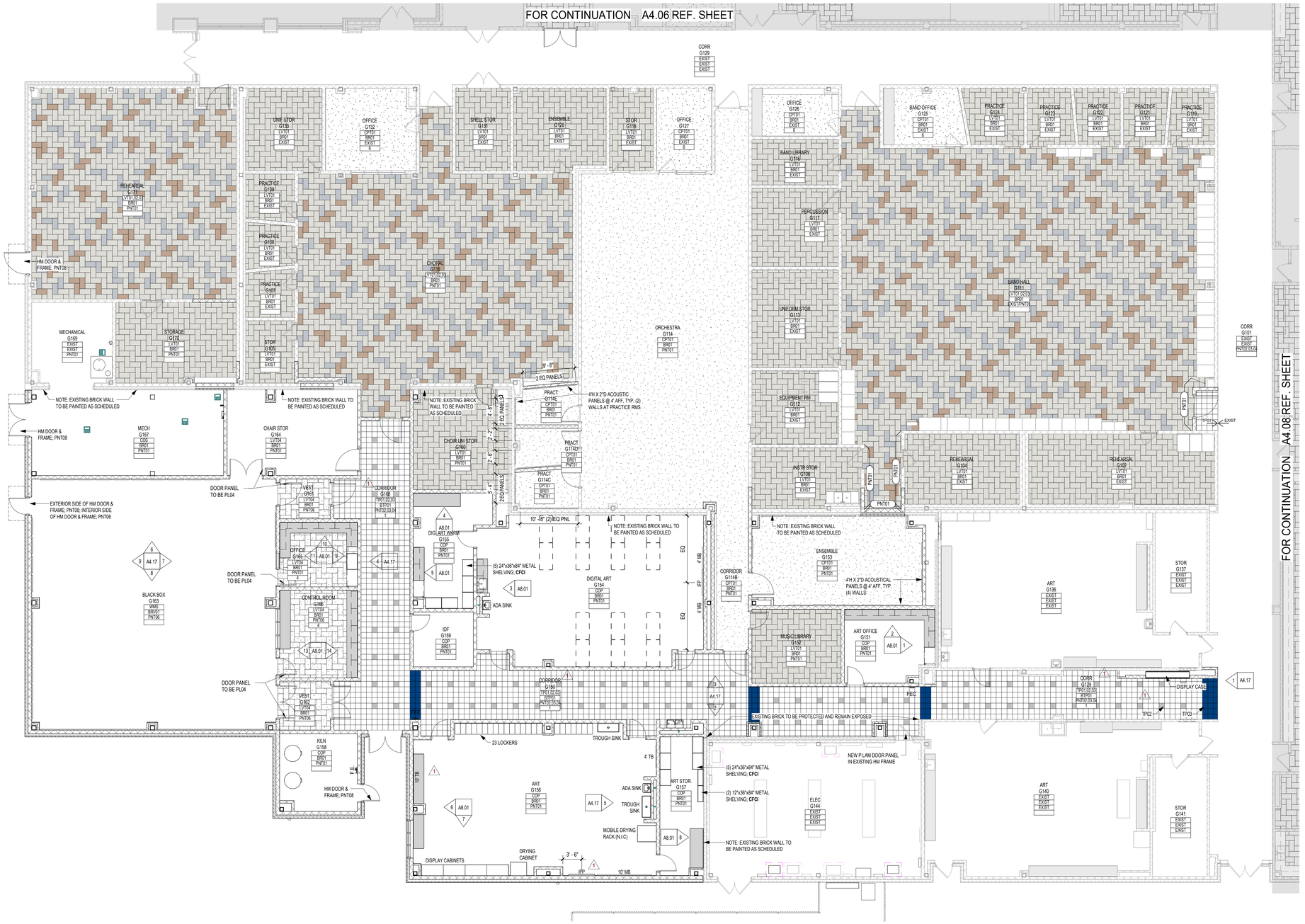
AREA F1 - FINISH PLAN - FIRST FLOOR

Job No.	Sheet No.
01818-05-01	A4.06
Drawn By: MJ, KM	
Date: 11/11/2024	



1 FINISH PLAN - AREA G - FIRST FLOOR
1/8" = 1'-0"

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER
TYP FLOOR FINISH → LVT01
WALL BASE FINISH → BR01
TYP WALL FINISH → PNT01
REMARKS → 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATION SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

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EPNT - EPOXY PAINT
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MS - METAL SOFFIT
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RWP - REFINISHED WOOD STRIP AND PLANK FLOORING
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SSM - SOLID SURFACE MATERIAL
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WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

A1.1 — ELEVATION REFERENCE
1 / A1.1 — CALLOUT REFERENCE
1 / A101 SIM — WALL SECTION REFERENCE
B — B - HORIZONTAL BLINDS; SMB - MOTORIZED SHADES - BLACKOUT; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; S - WINDOW SHADES
FLOOR INSTALLATION DIRECTION
FLOOR TRANSITION
FINISH — WALL FINISH TAG

FINISH PLAN LEGEND
APPLIES TO SECTION PLANS

A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
B. PROVIDE **BR01** AT **LVT** AND **CPT** FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS, U.N.O.
C. PROVIDE **BRV01** AT **WMS** FLOOR FINISH AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
D. VERIFY EXACT FLOOR TILE PATTERN FOR ALL ROOMS AS DEFINED TO RECEIVE **LVT01**, **LVT02**, AND **LVT03**. COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

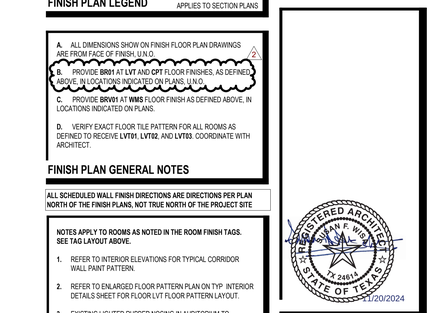
NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REFER TO INTERIOR ELEVATIONS FOR TYPICAL CORRIDOR WALL PAINT PATTERN.
2. REFER TO ENLARGED FLOOR PATTERN PLAN ON TYP. INTERIOR DETAILS SHEET FOR FLOOR LVT FLOOR PATTERN LAYOUT.
3. EXISTING LIGHTED RUBBER NOSING IN AUDITORIUM TO REMAIN. PROTECT DURING REMOVAL OF EXISTING CARPET & INSTALLATION OF NEW CARPET
4. PROVIDE BLACK MINI BLINDS AT WINDOWS TO BLACK BOX
5. PROVIDE NEW BR02 BASE AT WALLS. PROVIDE NEW BR01 BASE AT EXISTING CASEWORK
6. EXISTING CASEWORK TO REMAIN. PROVIDE NEW RUBBER BASE AS SCHEDULED AT EXISTING CASEWORK.

FINISH REMARKS

Revision /	Date	
1	11/14/2024	ADDENDUM 01
2	11/21/2024	ADDENDUM 03

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY ROAD, CYPRESS, TEXAS 77433



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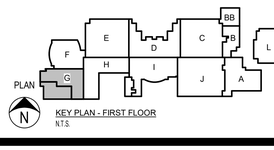
AREA G1 - FINISH PLAN - FIRST FLOOR

Job No.	Sheet No.
01818-05-01	A4.07
Drawn By: MJ, KM	
Date: 11/11/2024	



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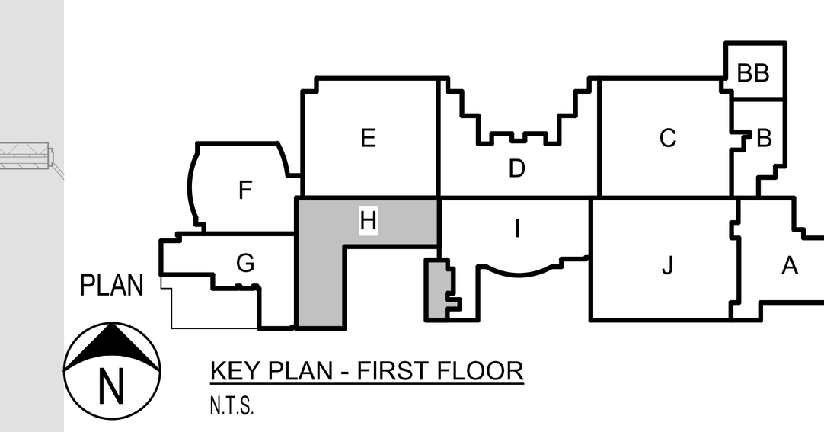
THE ROOM FINISH LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER FINISH PLAN SHEETS FOR FULL ROOM FINISH SCHEDULE, SPECIAL FINISH NOTES AND DEFAULT FINISHES.

ROOM FINISH LEGEND

1 FINISH PLAN - AREA H - FIRST FLOOR
1/8" = 1'-0"



KEY PLAN - FIRST FLOOR
N.T.S.

Revision /	Date	
1	11/21/2024	ADDENDUM 03

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY ROAD, CYPRESS, TEXAS 77433

11/20/2024

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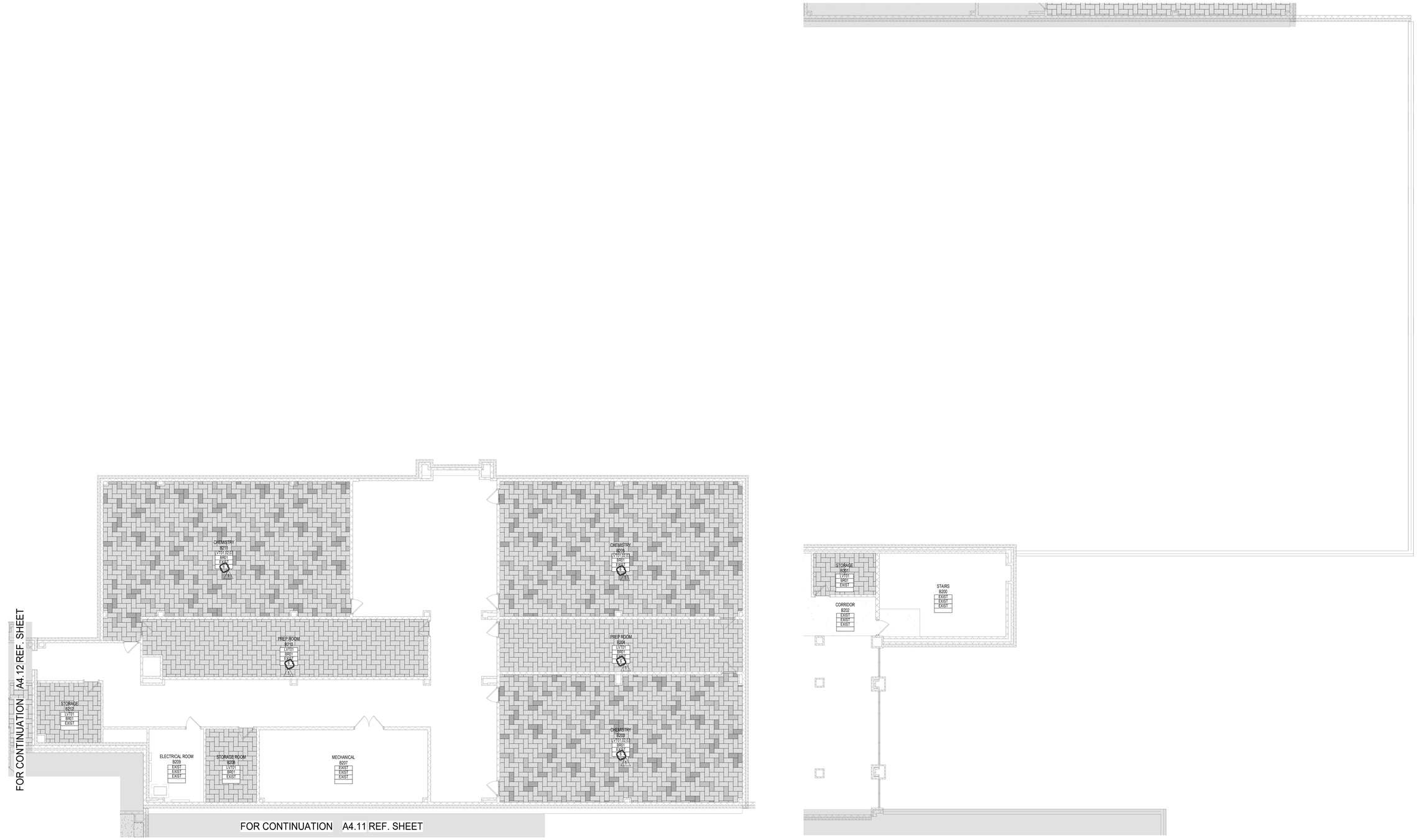
AREA H1 - FINISH PLAN - FIRST FLOOR

Job No. 01818-05-01
Drawn By: MJ, KM
Date: 11/11/2024
Sheet No. A4.08

11/21/2024 2:34:33 PM
Autodesk Docs://CYPRESS-FAIRBANKS ISD - CY RANCH HS RENO/01818-05-01_Cy Ranch HS Renovation_ARCH_v23.rvt

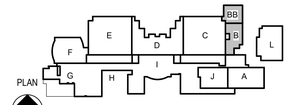
THE ROOM FINISH LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER FINISH PLAN SHEETS FOR FULL ROOM FINISH SCHEDULE, SPECIAL FINISH NOTES AND DEFAULT FINISHES.

ROOM FINISH LEGEND



2 FINISH PLAN - AREA BB - SECOND FLOOR
1/8" = 1'-0"

1 FINISH PLAN - AREA B - SECOND FLOOR
1/8" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date	
1	11/21/2024	ADDENDUM 03

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
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10700 FRY ROAD, CYPRESS, TEXAS 77433

11/20/2024

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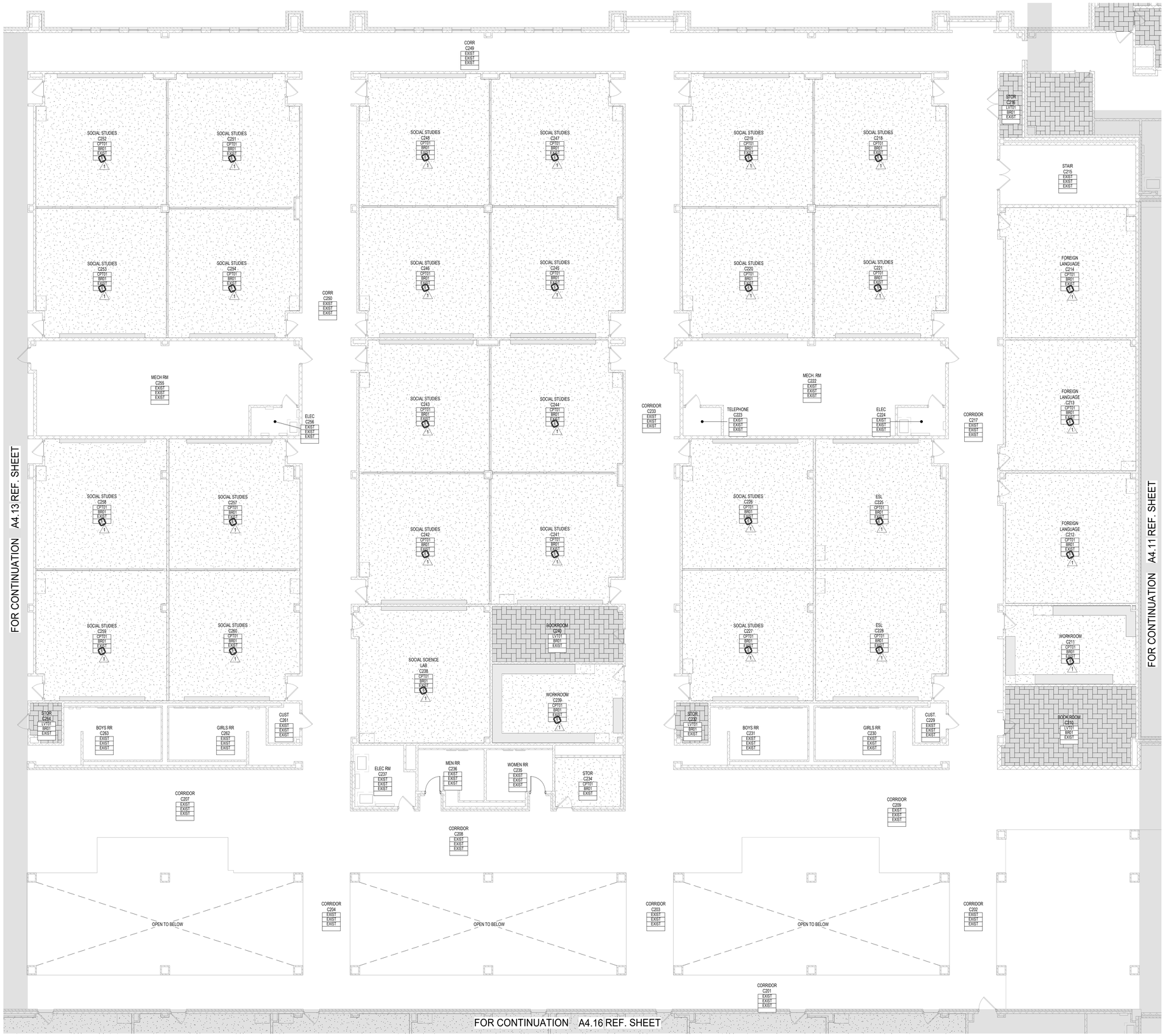
AREA B2 & BB2 - FINISH PLAN - SECOND FLOOR

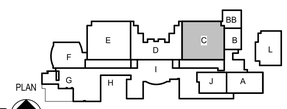
Job No.	Sheet No.
01818-05-01	A4.11
Drawn By:	
MJ, KM	
Date:	
11/11/2024	

THE ROOM FINISH LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER FINISH PLAN SHEETS FOR FULL ROOM FINISH SCHEDULE, SPECIAL FINISH NOTES AND DEFAULT FINISHES.

ROOM FINISH LEGEND



1 FINISH PLAN - AREA C - SECOND FLOOR
1/8" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date
1	11/21/2024 ADDENDUM 03

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
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AREA C2 - FINISH PLAN - SECOND FLOOR

Job No.	Sheet No.
01818-05-01	A4.12
Drawn By: MJ, KM	
Date: 11/11/2024	

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ROOM FINISH LEGEND

STOR D243 LVT01 BR01 EXIST

STAIR D242 EXIST EXIST EXIST

STUDY SKILLS D241 CPT01 BR01 EXIST

STUDY SKILLS D240 CPT01 BR01 EXIST

CORR D244 EXIST EXIST EXIST

WORKROOM D235 CPT01 BR01 EXIST

STOR D236 LVT01 BR01 EXIST

MEDIA D226 LVT01 D223 BR01 EXIST 1

REMOVE EXISTING MARKERBOARD & RE-INSTALL ONCE PLATFORM & RAMP HAVE BEEN REMOVED. PAINT WALL FROM CORNER TO CORNER

PNT01

LARGE GROUP INSTRUCTION D237 CPT01 BR01 EXIST

LIBRARY CR D230 CPT01 BR01 EXIST 1

ELEV D232 CPT01 EXIST EXIST

STAIR D228 EXIST EXIST EXIST

LIBRARY D227 CPT01 BR01 EXIST 1

CORRIDOR D231A EXIST EXIST EXIST

CORRIDOR D223 EXIST EXIST EXIST

CORRIDOR D202 EXIST EXIST EXIST

OPEN TO BELOW

OPEN TO BELOW

STOR D224 LVT01 BR01 EXIST

HEALTH D222 CPT01 BR01 EXIST 1

WORKROOM D225 CPT01 BR01 EXIST 1

HEALTH D221 CPT01 BR01 EXIST 1

AIV STORAGE D226 LVT01 BR01 EXIST

WOMEN RR D220 EXIST EXIST EXIST

MEN RR D219 EXIST EXIST EXIST

CORRIDOR D201 EXIST EXIST EXIST

OPEN TO BELOW

CORRIDOR D200 EXIST EXIST EXIST

STOR D207 LVT01 BR01 EXIST

STAIR D208 EXIST EXIST EXIST

STUDY SKILLS D209 CPT01 BR01 EXIST 5

WORK ROOM D212 CPT01 BR01 EXIST

ELECTRICAL D210 LVT01 BR01 EXIST

BOOK ROOM D214 CPT01 BR01 EXIST

STORAGE D215 LVT01 BR01 EXIST

WORK ROOM D216 LVT01 BR01 EXIST

CORR D217 EXIST EXIST EXIST

HEALTH D218 CPT01 BR01 EXIST 1

1 FINISH PLAN - AREA D - SECOND FLOOR
1/8" = 1'-0"

PLAN

KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date	
1	11/21/2024	ADDENDUM 03

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
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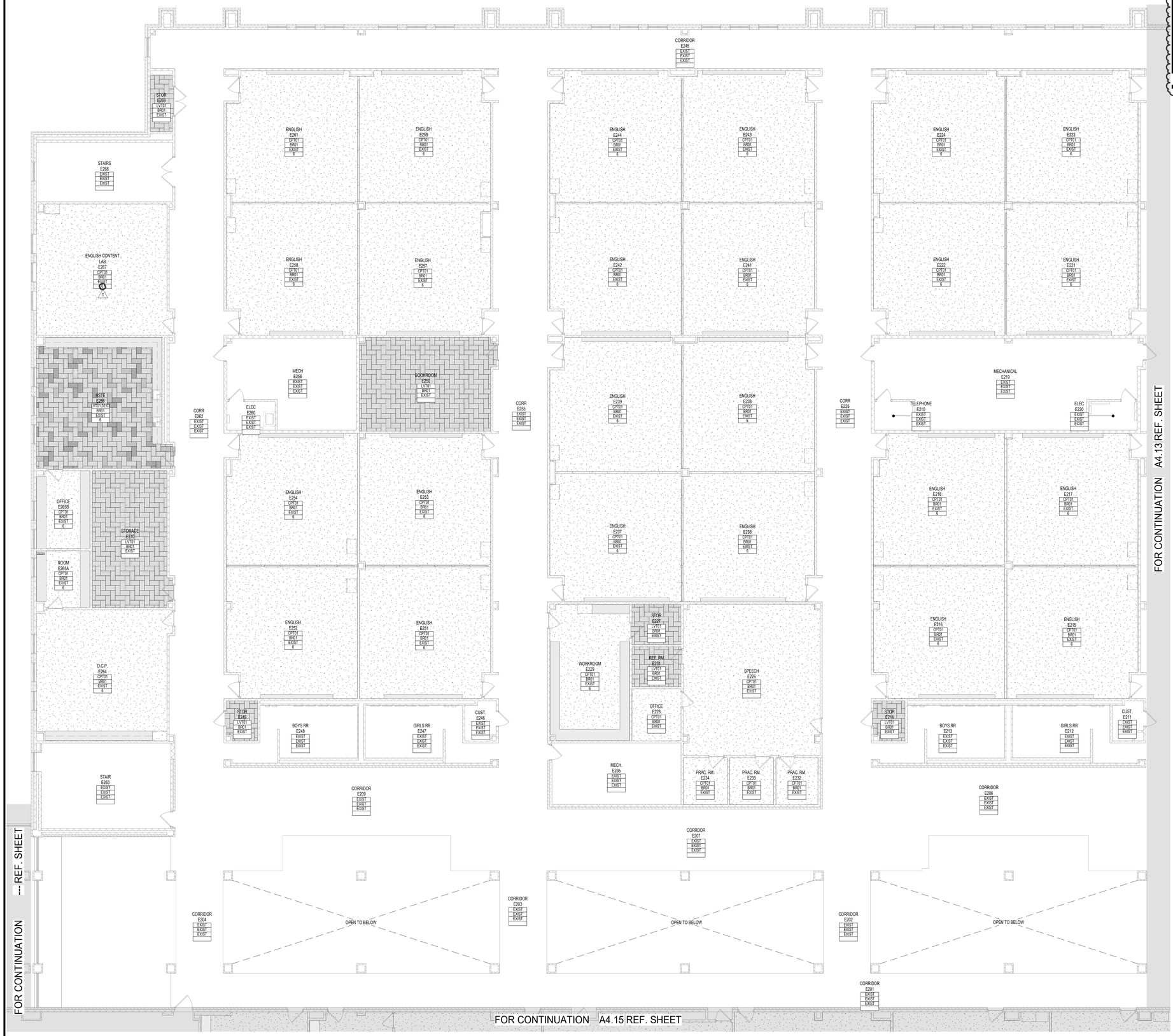
AREA D2 - FINISH PLAN - SECOND FLOOR

Job No.	Sheet No.
01818-05-01	A4.13
Drawn By: MJ, KM	
Date: 11/11/2024	



1 FINISH PLAN - AREA E - SECOND FLOOR
1/8" = 1'-0"

1

LVT01
LVT02
LVT03
LVT04

LVT LEGEND

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER
TYP FLOOR FINISH → LVT01
WALL BASE FINISH → BR01
TYP WALL FINISH → PNT01
REMARKS → 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATION SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE; FINISH COLOR AND MATERIAL AS NOTED IN SPEC. SECTION 01 6210

AL - ALUMINUM
AP - ACOUSTICAL PANELS
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
CGB - CERAMIC GLAZED BASE
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CWF - CUSTOM WINDOW FILM
EPNT - EPOXY PAINT
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MS - METAL SOFFIT
PL - PLASTIC LAMINATE
PNT - PAINT
RWP - REFINISHED WOOD STRIP AND PLANK FLOORING
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SSM - SOLID SURFACE MATERIAL
TB - TACK BOARD
TS - TACKABLE SURFACE
VSF - VINYL SHEET FLOORING
WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

A1.1 — ELEVATION REFERENCE
1 / A1.1 — CALLOUT REFERENCE
1 / A101 SIM — WALL SECTION REFERENCE
B — B - HORIZONTAL BLINDS; SMB - MOTORIZED SHADES - BLACKOUT; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; S - WINDOW SHADES
FLOOR INSTALLATION DIRECTION
FLOOR TRANSITION
FINISH — WALL FINISH TAG

FINISH PLAN LEGEND APPLIES TO SECTION PLANS.

A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
B. PROVIDE **BR01** AT LVT AND **CPT** FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS, U.N.O.
C. PROVIDE **BRV01** AT **WMS** FLOOR FINISH AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
D. VERIFY EXACT FLOOR TILE PATTERN FOR ALL ROOMS AS DEFINED TO RECEIVE **LVT01**, **LVT02**, AND **LVT03**. COORDINATE WITH ARCHITECT.

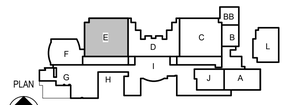
FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REFER TO INTERIOR ELEVATIONS FOR TYPICAL CORRIDOR WALL PAINT PATTERN.
2. REFER TO ENLARGED FLOOR PATTERN PLAN ON TYP. INTERIOR DETAILS SHEET FOR FLOOR LVT FLOOR PATTERN LAYOUT.
3. EXISTING LIGHTED RUBBER NOSING IN AUDITORIUM TO REMAIN. PROTECT DURING REMOVAL OF EXISTING CARPET & INSTALLATION OF NEW CARPET.
4. PROVIDE BLACK MINI BLINDS AT WINDOWS TO BLACK BOX.
5. PROVIDE NEW BR02 BASE AT WALLS. PROVIDE NEW BR01 BASE AT EXISTING CASEWORK.
6. EXISTING CASEWORK TO REMAIN. PROVIDE NEW RUBBER BASE AS SCHEDULED AT EXISTING CASEWORK. 1

FINISH REMARKS

PLAN


KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date	
1	11/21/2024	ADDENDUM 03

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
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REGISTERED ARCHITECT — KAREN F. HUCKABEE — TX 24611 — STATE OF TEXAS — 11/20/2024

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AREA E2 - FINISH PLAN - SECOND FLOOR

Job No.	Sheet No.
01818-05-01	A4.14
Drawn By: MJ, KM	
Date: 11/11/2024	

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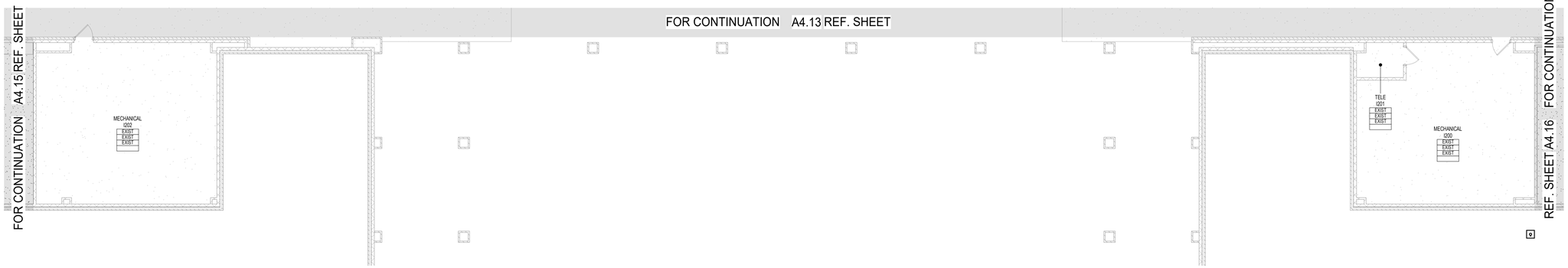
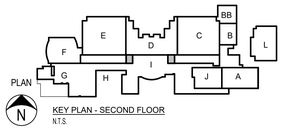
ROOM FINISH LEGEND

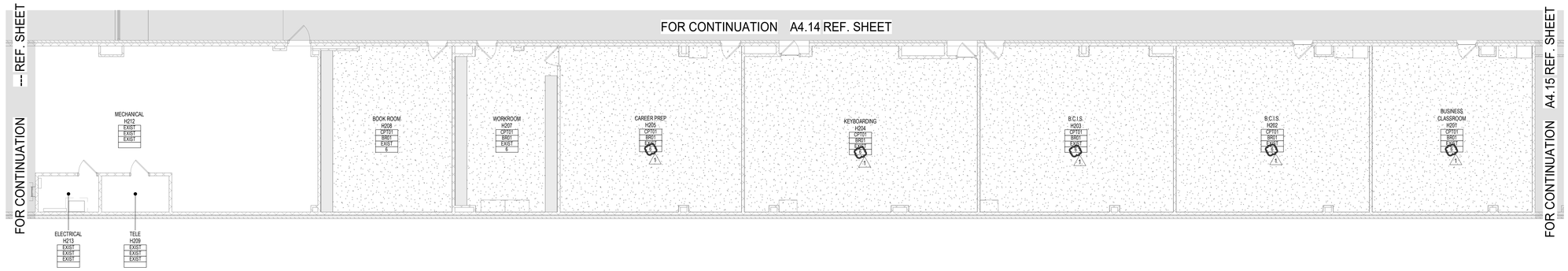
NOTE: NO FINISHES SCOPE IN THIS AREA



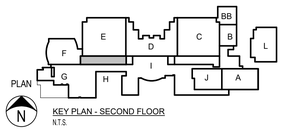
2 FINISH PLAN - AREA I - SECOND FLOOR
1/8" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.



1 FINISH PLAN - AREA H - SECOND FLOOR
1/8" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date
1	11/21/2024 ADDENDUM 03

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
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AREA H2 & I2 - FINISH PLAN - SECOND FLOOR

Job No.	Sheet No.
01818-05-01	A4.15
Drawn By: MJ, KM	
Date: 11/11/2024	

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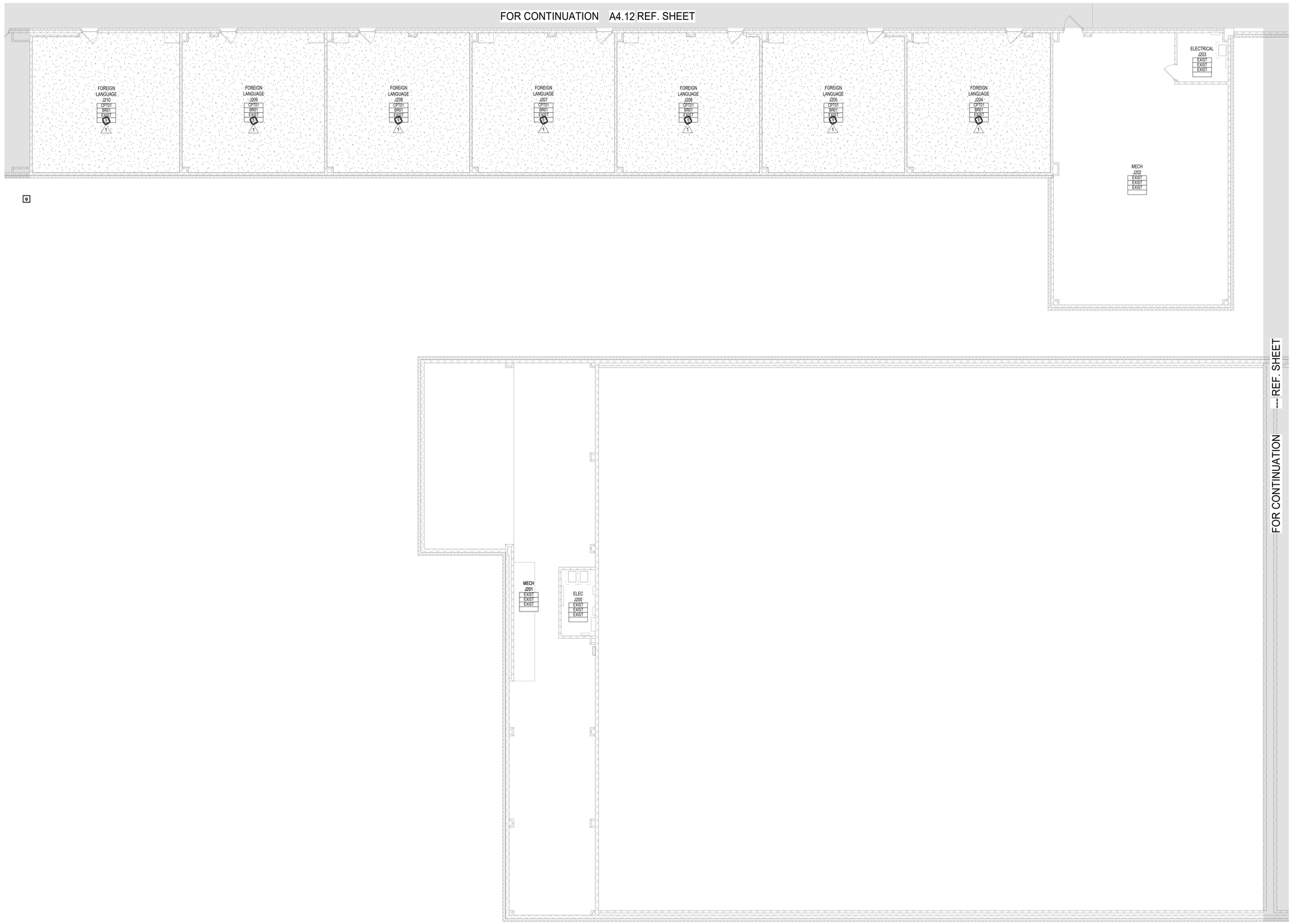
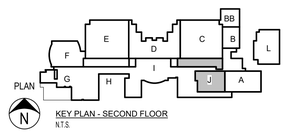
ROOM FINISH LEGEND



1 FINISH PLAN - AREA J - SECOND FLOOR
1/8" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	1
Date	11/21/2024
	ADDENDUM 03

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AREA J2 - FINISH PLAN - SECOND FLOOR

Job No. 01818-05-01	Sheet No. A4.16
Drawn By: MR	
Date: 11/11/2024	

Revision /	Date	
1	11/20/2024	ADDENDUM 02

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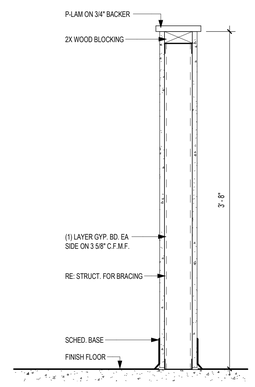
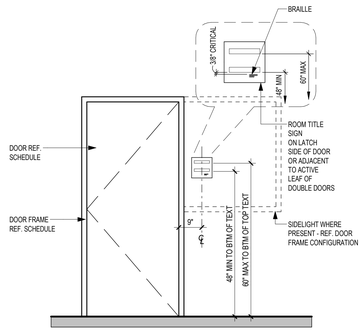
TYP INTERIOR DETAILS

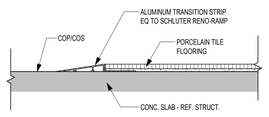
Job No.	Sheet No.
01818-05-01	A4.18
Drawn By: MJ	
Date: 11/11/2024	



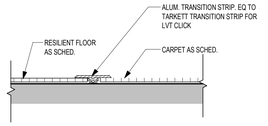
6 H4 - SOUND CONTROL WALL
1 1/2" = 1'-0"



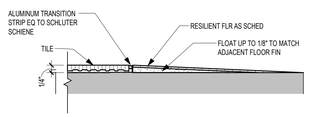
5 TYP SIGNAGE LOCATION
1/2" = 1'-0"



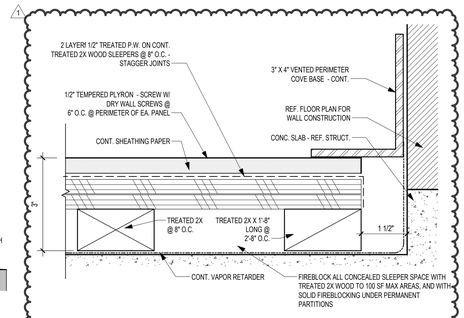
4 TRANSITION - TILE TO CONCRETE
6" = 1'-0"



3 ALUMINUM TRANSITION - CARPET TO RESILIENT
6" = 1'-0"



2 TRANSITION - TILE TO RESILIENT
6" = 1'-0"



1 A4_TYP BLACKBOX FLOOR @ BASE
6" = 1'-0"

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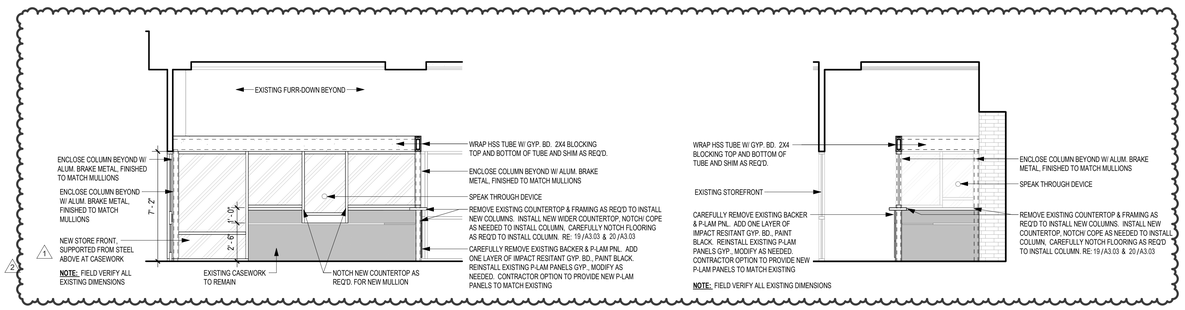
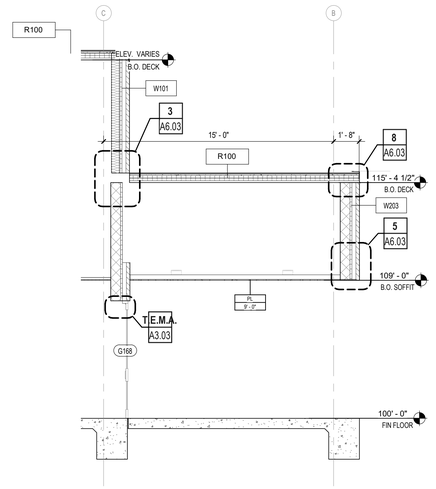


15 WS - D148 @ RECPT - N/S
1/4" = 1'-0"

14 WS - D148 @ RECPT - E/W
1/4" = 1'-0"



13 WALL SECTION
1/4" = 1'-0"

12 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

11 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

10 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

9 WALL SECTION
1/4" = 1'-0" BACK REF: A1.01

8 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

7 WALL SECTION
1/4" = 1'-0" BACK REF: A1.07

6 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

5 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

4 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

3 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

2 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

1 WALL SECTION
1/4" = 1'-0" BACK REF: A6.01

Revision /	Date	
1	11/14/2024	ADDENDUM 01
2	11/20/2024	ADDENDUM 02

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WALL SECTIONS

Job No.	Sheet No.
01818-05-01	A6.02
Drawn By: ZFA	
Date: 11/11/2024	

ROOF TYPE TAGS

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100
ROOF ASSEMBLY IN SECTION VIEW

R100 - BUILT-UP (LWIC), INSUL., 1 1/2" MTL. DECK
R102 - N/A
R103 - N/A
R104 - N/A

ROOF TYPE LEGEND

1) PROVIDE AND INSTALL **BUILT-UP** ROOFING SYSTEM AND STANDING SEAM METAL ROOFING, WITH RIGID INSULATION AS SPECIFIED. REFER TO SPECIFICATIONS FOR ATTACHMENT REQUIREMENTS FOR ROOF INSULATION BOARD. REFER TO SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR DESCRIPTION OF UNDERLYING STEEL DECK.

2) PROVIDE TAPERED INSULATION AS SHOWN ON THE DRAWINGS. TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE 1/2" PER FOOT MIN SLOPE IN ANY ROOF PLANE & 1/4" PER FOOT MIN SLOPE DOWN VALLEYS TOWARD ROOF DRAINS.

3) EXPANSION JOINT COVERS SHALL BE AS SHOWN ON TYPICAL ROOF DETAILS. EXPANSION JOINT COVERS SHALL BE INSTALLED WHERE INDICATED ON PLANS AND IN FULL ACCORDANCE WITH CONVENTIONAL ROOFING AND SHEET METAL PRACTICES. ALL EXPANSION JOINT COVERS AND END CLOSURES AT **BUILT-UP** ROOF SHALL BE 24 GA. G.I. (REFER TO EXPANSION JOINT DETAILS AND ROOFING PLAN FOR LOCATION).

4) REF. TO PLUMBING DRAWINGS FOR ROOF DRAIN SIZING & LEADER INFORMATION. INSULATE THE EXPOSED ROOF DRAIN PIPING AND ROOF DRAIN BODY IN THE PLENUM. EXTEND DOWNSPOUTS THROUGH CHASES INTO UNDERGROUND COLLECTION SYSTEM. REFER TO MECH AND CIVIL DRAWINGS FOR EXTENSION. IF ROOF DRAINS CONFLICT WITH STRUCTURAL, MOVE AS DIRECTED, BUT MAKE ALL WALL PENETRATIONS AS SHOWN. REFER TO PLUMBING SHTS. FOR UNDERGROUND PIPING.

5. ROOFING CONTRACTOR SHALL PROVIDE & INSTALL ALL FLASHINGS, COUNTERFLASHINGS, EXPANSION JOINT COVERS, & GUTTERS. ROOFING CONTRACTOR SHALL INSTALL ROOF DRAINS AND FLASHINGS & COUNTER FLASHING CALLED FOR ON ALL MECHANICAL EQUIPMENT. ALL ROOF FLASHINGS AND COUNTERFLASHINGS SHALL BE STAINLESS STEEL WHEN CONCEALED FROM VIEW AND STAINLESS STEEL WHEN EXPOSED TO VIEW. SCUPPERS SHALL BE PRE-FINISHED GALV. METAL.

6) SEE MECHANICAL AND ELECTRICAL SHEETS FOR VENTS, GAS LINES, A/C UNITS, EXHAUST FANS, ETC.

7) REFER TO STRUCTURAL DRAWINGS FOR ROOF MOUNTING FRAME SUPPORT DETAILS.

8) GENERAL CONTRACTOR SHALL COORDINATE ROOFING, PLUMBING, AND MECHANICAL CONTRACTOR ON ALL WORK.

9) COUNTERFLASHINGS SHALL BE STAINLESS STEEL WHERE **BUILT-UP** ROOF SLOPES AT WALL LINE. UNIFORMLY STEP FLASHINGS AS DIRECTED BY ARCHITECT AND LAP JOINTS 3" MINIMUM IN A WATERTIGHT CONDITION.

10) ALL WOOD MATERIALS INCLUDED IN THE ROOF OR PARAPET ASSEMBLY, INCLUDING, BUT NOT LIMITED TO, CURBS, BLOCKING, AND NAILERS SHALL BE FIRE-RESISTANT-TREATED AS SPECIFIED.

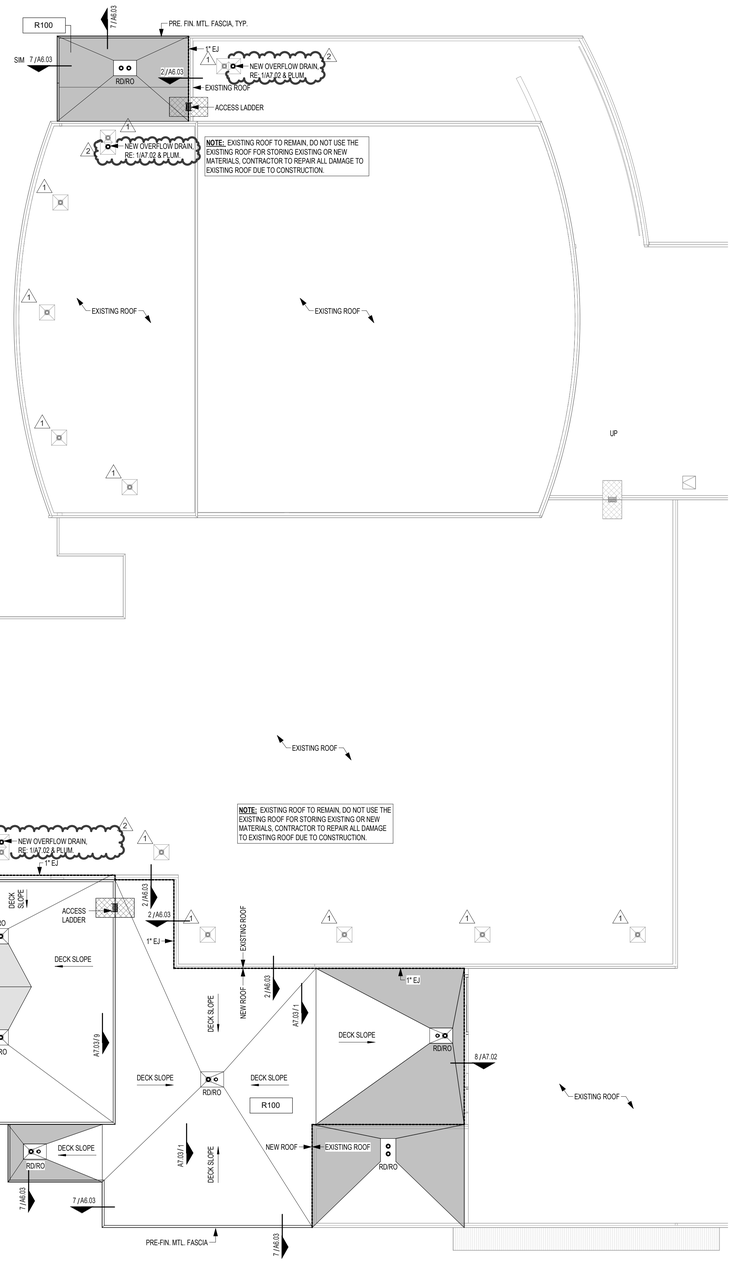
11) WOOD NAILER FASTENING: FASTENER PER FACTORY MUTUAL SYSTEM, LOSS PREVENTION DATA 1-49.

12) WOOD BLOCKING TO METAL DECK: ATTACH NAILER TO THE METAL DECK WITH TWO ROWS OF NO. 10 GALVANIZED STEEL METAL SCREWS AT 24" O.C. PROVIDE A GALVANIZED STEEL WASHER (5/8" O.D.) AT EACH SCREW. TOP NAILER PLATE SHALL BE FASTENED TO BOTTOM NAILER PLATE WITH NAILS LONG ENOUGH TO PENETRATE 1 1/4" INTO BOTTOM NAILER AND SPACED 24" STAGGERED IN TWO ROWS. SPACING SHALL NOT EXCEED 12" FOR A MINIMUM OF 8' -0" EACH WAY FROM AN OUTSIDE CORNER. WITHDRAWAL RESISTANCE SHALL BE 100 LBS. PER NAIL MINIMUM.

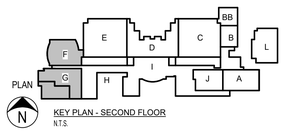
13) ALL CURBS (FOR MECHANICAL EQUIPMENT, EXPANSION JOINTS, ETC.) SHALL PROVIDE A MINIMUM OF 8" FLASHING HEIGHT ABOVE FINISH ROOF LEVEL AT ALL CONDITIONS, INCLUDING ABOVE CRICKETS.

14) ALL WORK SHALL BE COMPLETED SO AS TO PRODUCE A 100 PERCENT WATERTIGHT CONDITION FOR THE LIFE OF THE ROOF WARRANTY.

TYPICAL ROOF NOTES



1 ROOF PLAN - AREA F & G
1/16" = 1'-0"



KEY PLAN - SECOND FLOOR
N.T.S.

Revision /	Date	
1	11/14/2024	ADDENDUM 01
2	11/20/2024	ADDENDUM 02

Project:
2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS
FOR
CYPRESS-FAIRBANKS ISD
10700 FRY ROAD, CYPRESS, TEXAS 77433

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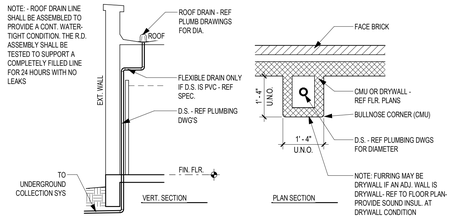
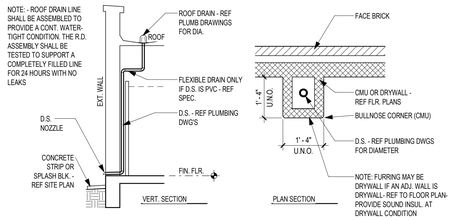
ROOF PLAN - AREA F & G

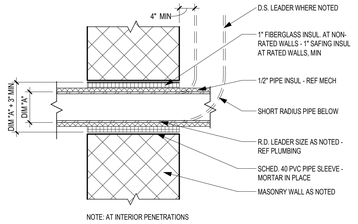
Job No.	Sheet No.
01818-05-01	A7.01
Drawn By: JFA	
Date: 11/11/2024	



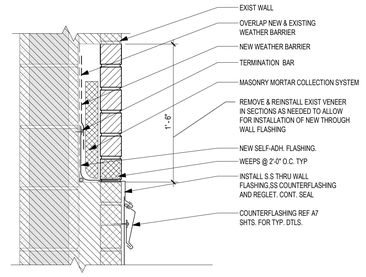
12 TYP CONCEALED D.S. & ROOF DRAIN
1/2" = 1'-0"



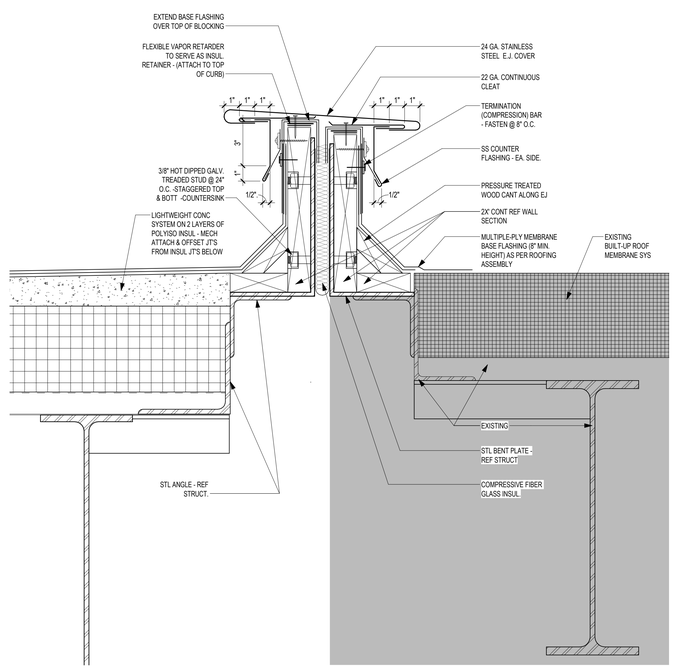
11 TYP CONCEALED D.S. @ OVERFLOW ROOF DRAIN
1/2" = 1'-0"



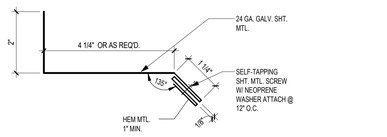
10 TYP PIPE PENETRATION DETAIL
3/4" = 1'-0"



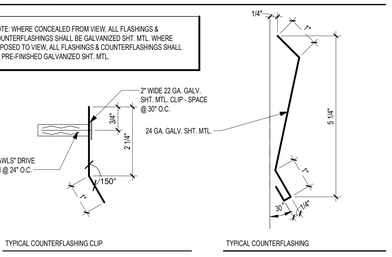
9 EJ @ EXIST HIGH WALL
1 1/2" = 1'-0"



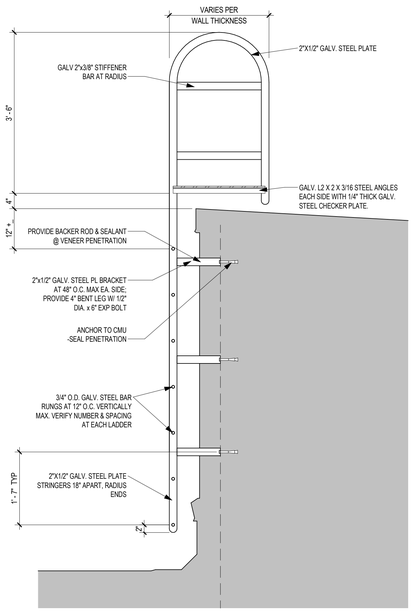
8 TYP ROOF E.J. DETAIL W/ MTL COVER
3" = 1'-0"



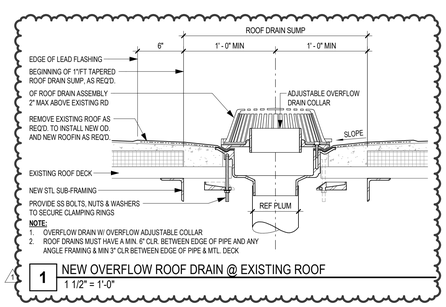
NOTE: WHERE CONCEALED FROM VIEW, ALL FLASHINGS & COUNTERFLASHINGS SHALL BE GALVANIZED SHT. MTL. WHERE EXPOSED TO VIEW, ALL FLASHINGS & COUNTERFLASHINGS SHALL BE PRE-FINISHED GALVANIZED SHT. MTL.



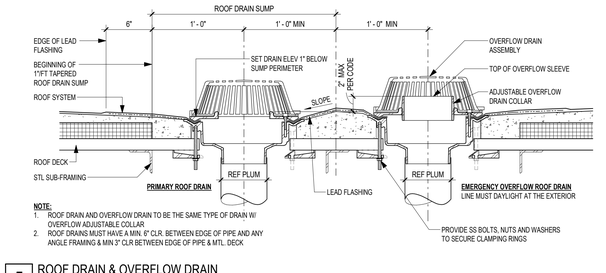
18 TYP COUNTERFLASHING COMPONENTS
6" = 1'-0"



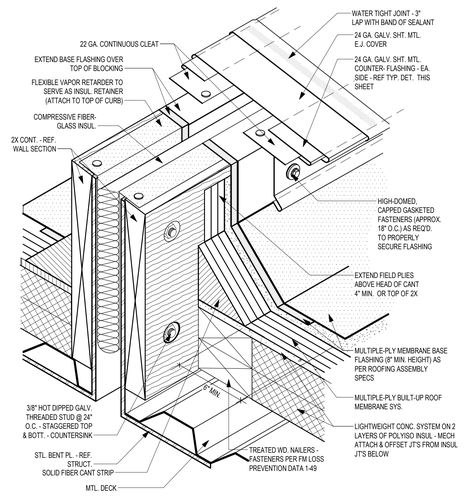
6 ROOF LADDER DETAIL
3/4" = 1'-0"



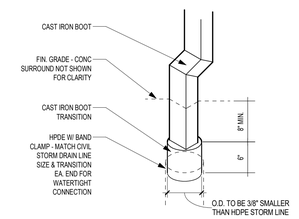
1 NEW OVERFLOW ROOF DRAIN @ EXISTING ROOF
1 1/2" = 1'-0"



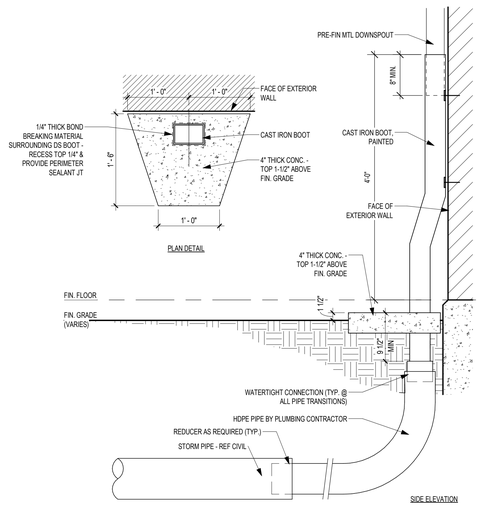
5 ROOF DRAIN & OVERFLOW DRAIN
1 1/2" = 1'-0"



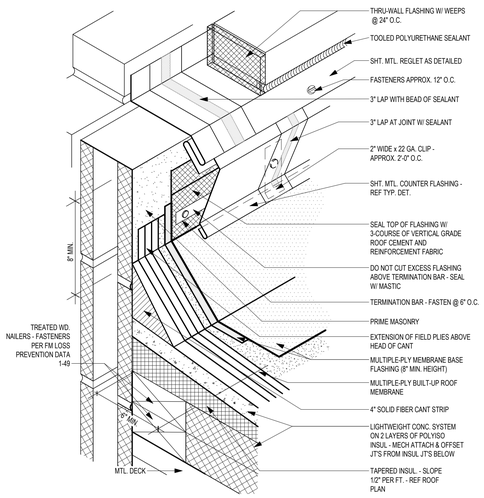
15 TYP ROOF E.J. DETAIL W/ MTL COVER
3" = 1'-0"



3 DOWNSPOUT CONNECTION FOR SUB-GRADE DRAINAGE
1" = 1'-0"



2 DOWNSPOUT CONNECTION FOR SUB-GRADE DRAINAGE
1" = 1'-0"



14 TYP BASE FLASHING FOR BRICK WALL
3" = 1'-0"

Revision /	Date	
1	11/20/2024	ADDENDUM 02

Project:
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TYPICAL ROOFING DETAILS

Job No. 01818-05-01	Sheet No. A7.02
Drawn By: ZFA	
Date: 11/11/2024	

11/21/2024 1:35:26 PM
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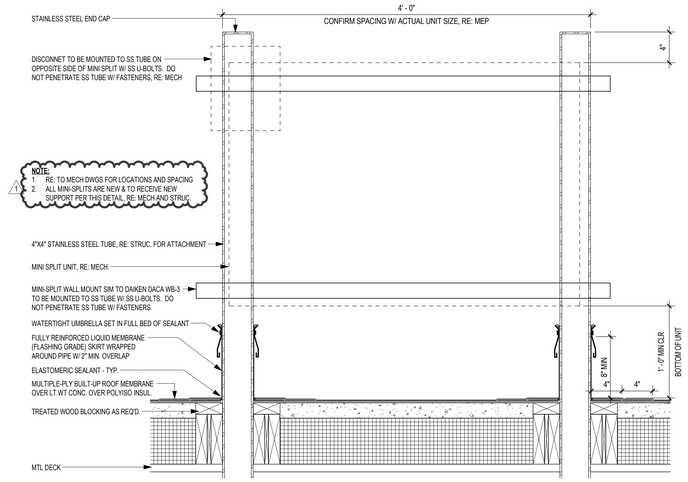
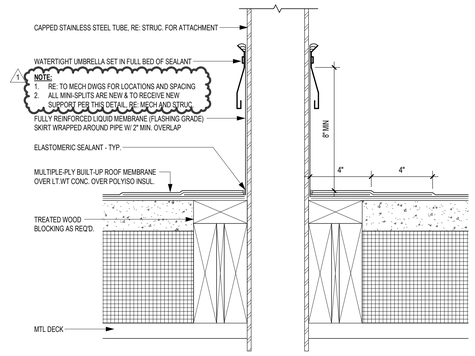
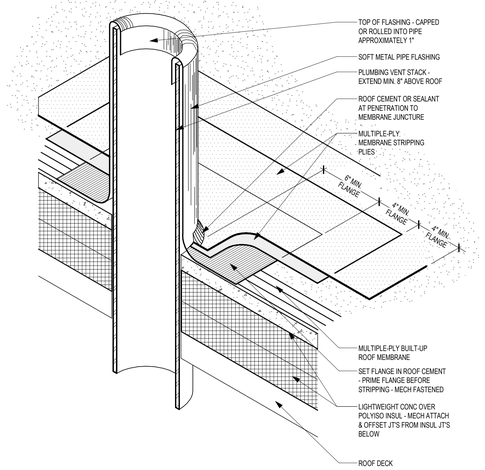


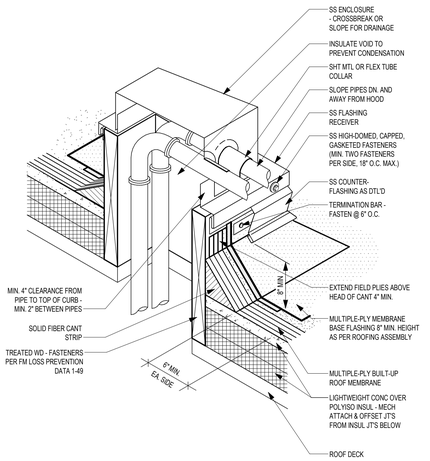
9 A7-ROOF MINI-SPLIT THRU ROOF
1 1/2" = 1'-0"



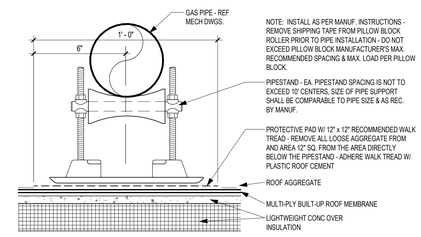
8 A7-ROOF MINI-SPLIT THRU ROOF - ENLARGED
3" = 1'-0"



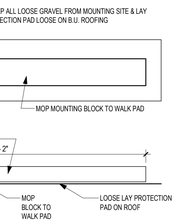
7 PLUMBING VENT
3" = 1'-0"



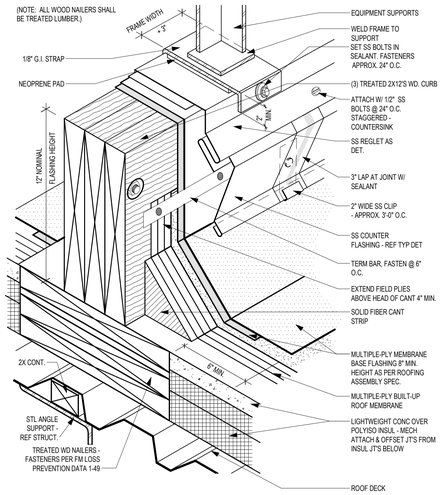
6 ROOF PENETRATION
3" = 1'-0"



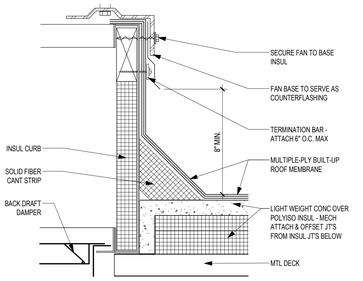
5 TYP GAS PIPE SUPPORT DETAIL
3" = 1'-0"



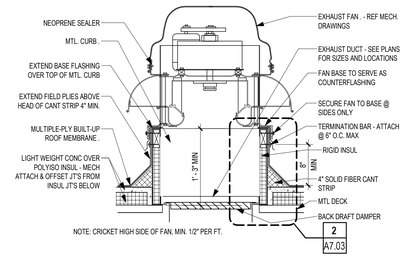
4 TYP EQUIPMENT SUPPORTS
1 1/2" = 1'-0"



3 EQUIPMENT MOUNTING SUPPORT DETAIL
3" = 1'-0"



2 SECTION B - TYP EXHAUST FAN MOUNTING CURB DETAIL
3" = 1'-0"



1 TYP EXHAUST FAN INSTALLATION DETAIL
1" = 1'-0"

Revision /	Date
1	11/20/2024 ADDENDUM 02

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TYPICAL ROOFING DETAILS

Job No.	Sheet No.
01818-05-01	A7.03
Drawn By: AE	
Date: 11/11/2024	

REFER TO SERIES AV, TL, AND TE DRAWINGS FOR FULL THEATRICAL SCOPE OF WORK. CONTRACTOR TO COORDINATE ALL FINAL DEVICE LOCATIONS, ROUGH-INS, AND CONNECTIONS BEFORE CONSTRUCTION.

LINETYPE LEGEND

————	EXISTING TO REMAIN
- - - - - - - - - - - -	DISCONNECT AND REMOVE
————	NEW WORK

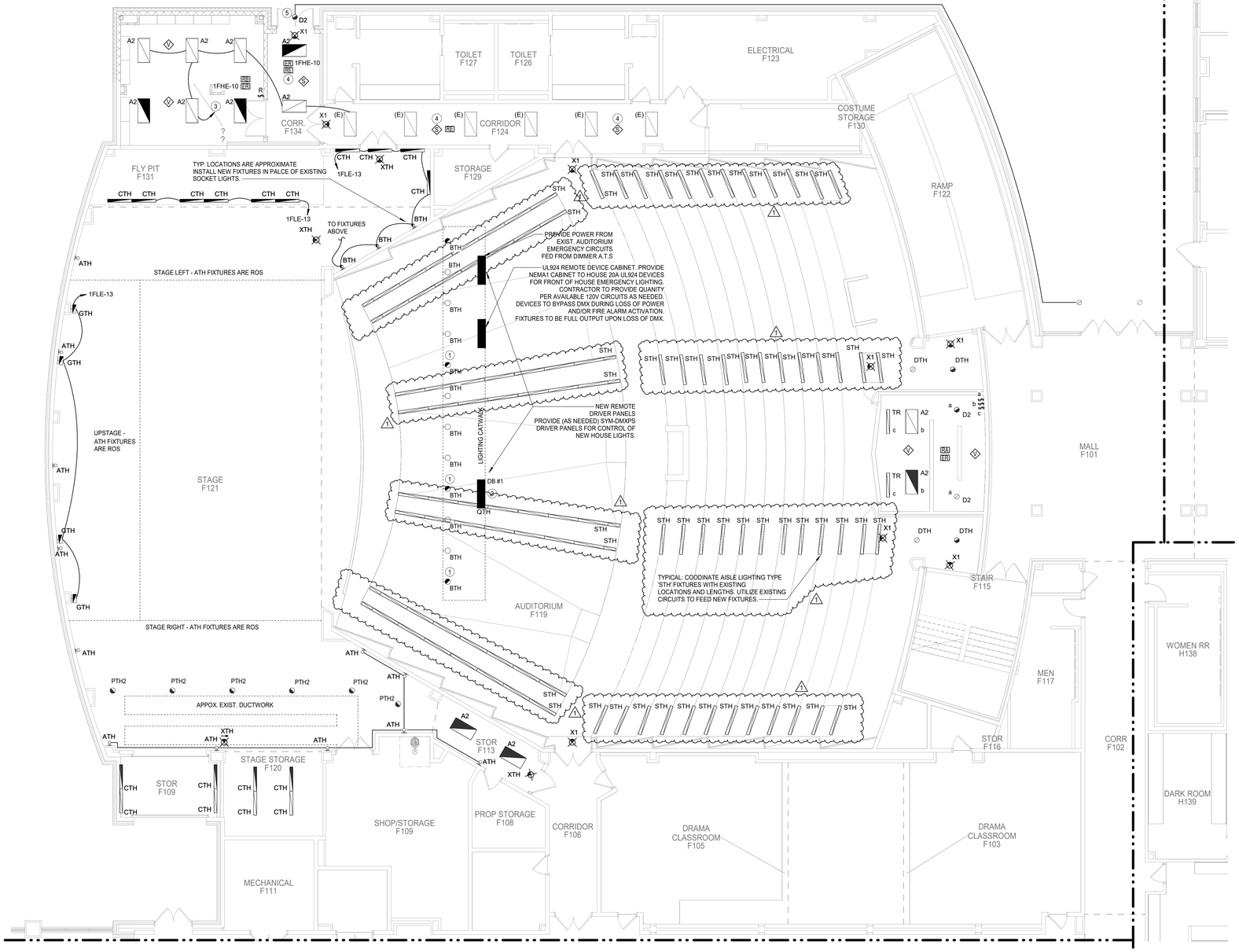
CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES. AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL.

CONNECT NEW INTERIOR LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. EXTEND/RE-ROUTE WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES/LIGHTING CONTROLS. FIELD VERIFY CONNECTED LOAD ON EACH 20A BRANCH CIRCUIT NOT TO EXCEED 3500 W @ 277V. TYPICAL.

CONTRACTOR TO PROVIDE NEW DMX CONTROL WIRING TO NEW THEATRICAL FIXTURES. COORDINATE REQUIREMENTS WITH THEATRICAL CONTRACTOR BEFORE INSTALLATION.



N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA F**
Scale: 1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
2. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
3. ELECTRICAL CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL SYSTEMS.
4. PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
5. ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN, PER 2015 IECC C405.2.3 WATTAGE REQUIREMENT.
6. CORRIDOR LIGHTING DOES NOT REQUIRE OCCUPANCY SENSING DEVICES AND/OR DAYLIGHT HARVESTING CONTROLS PER 2015 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
7. LOWER CASE LETTER INDICATES SWITCHING SCHEME.
8. CONNECT NEW INTERIOR LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. EXTEND/RE-ROUTE WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES/LIGHTING CONTROLS. FIELD VERIFY CONNECTED LOAD ON EACH 20A BRANCH CIRCUIT NOT TO EXCEED 3500 W @ 277V. TYPICAL.
9. LOCATION OF NEW / REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
10. LOCATE PLENUM RATED DIGITAL LIGHTING CONTROLLER ABOVE ACCESSIBLE CEILING DIRECTLY ABOVE SWITCH CONTROLLING THE SPACE; IN NON-ACCESSIBLE AND /OR HIGH CEILING AREAS, LOCATE PLENUM RATED DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING IDENTIFYING ASSOCIATED SPACE PER SPECIFICATIONS.
11. LOCATE PLENUM RATED DIGITAL LIGHTING CONTROLLER FOR CLASSROOMS ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
12. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS REQUIRED.
13. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
14. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD CONTROL RELAYS AND EXIT SIGNS.
15. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
16. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM. CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33."

ELECTRICAL KEYED NOTES

1	PROVIDE POWER TO NEW EMERGENCY FIXTURES FROM CIRCUIT SHOWN. NEW EMERGENCY LIGHTS TO BE CONTROLLED VIA DIMMER/ATS EMERGENCY RELAY.
2	REMOTE CENTRAL DRIVERS FOR HOUSE LIGHTING. FIELD VERIFY FINAL LOCATION IN THE SPACE. CONNECT NEW HOUSE LIGHTING DRIVERS TO EXISTING CONSTANT 120V CIRCUITS LEFT IN PLACE AFTER DEMOLITION, AND PROVIDE NEW CONTROLLED WIRING FROM EXISTING CONTROL SOURCE WITH ZONING AS SHOWN. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT TO REMOTE DRIVERS. PROVIDE DEDICATED REMOTE DRIVER UNITS FOR EMERGENCY FIXTURES. REMOTE DRIVERS TO BE ACCESSIBLE FROM CATWALK. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
3	PROVIDE POWER TO NEW LIGHT FIXTURES FROM EXISTING CIRCUIT AS SHOWN. EXTEND CONDUIT AND WIRING AS NECESSARY.
4	PROVIDE NEW CONTROLS IN THIS SPACE TO ENSURE EXISTING AND NEW LIGHTING FIXTURES ARE CONTROLLED TOGETHER.
5	PROVIDE POWER TO NEW FIXTURES FROM EXISTING CIRCUIT AS SHOWN. CONDUIT AND WIRING TO BE CONCEALED WITHIN BUILDING ENVELOPE. EXTEND CONDUIT AND WIRING AS NECESSARY.

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Houston, TX 77064
Registration: F-4111
Project No: 2024-00207-00

Revision / 1 — Date 11-20-24 — Addendum 02

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

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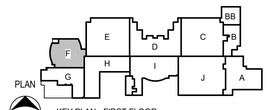
PLAN


KEY PLAN - FIRST FLOOR
N.T.S.

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA F

Job No. 01818-05-01
Drawn By: KJ
Date: 11/11/2024
Sheet No. E2.01

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEY/WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

UNLESS NOTED OTHERWISE, RETAIN IN PLACE ALL EXISTING CIRCUITS AND FEEDER FROM SOURCE FOR ALL EXISTING PANELS LABELED TO BE REPLACED AND / OR RELOCATED. EXTEND / RE-ROUTE EXISTING BRANCH CIRCUITS AND FEEDER LEFT IN PLACE AFTER DEMOLITION FROM EXISTING PANELS TO BE RELOCATED AND / OR REPLACED.

CONTRACTOR TO FIELD VERIFY INTERRUPTING FAULT CURRENT CAPACITY OF EXISTING PANELS AND / OR SWITCHBOARDS AND TO PROVIDE NEW BREAKERS/FUSES TO MATCH EXISTING.

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Houston, TX 77064
Registration: F-4111
Project No: 2024-00207-00

Revision / 1 — Date 11-20-24 — Addendum 02

METER — EXISTING UTIL TX 277/480V, 3PH, 4W — EXIST. CTA — EXIST. CTB

EXISTING MAIN SWITCHBOARD - 'MSB'
277/480V, 3PH, 4W, 4000A MCB
100,000A AIC

4000A 3P GFI — ISC: 52,770A — NEW 300AF IN EXISTING 600A DISC. FRAME — NEW 400A/3P DISC. FRAME W/ NEW 400AF — 400A

275KW GENERATOR
EXISTING GENERATOR
CTRL — 3P/600A/LSI — 600A FRAME, 600A SENSOR/ TRIP SET AT 600A
CONTROL WIRING TO GEN
MTDQ 600A/4P/3RX 65,000 AIC
LOAD BANK CONNX — TEMP POWER SOURCE CONNX

EMERGENCY GUTTER
NEMA 4XSS WIRING GUTTER WITH INSULATED TAB BLOCKS
3P/60A LSI CB/N4XSS — SPDM
BKR. CPDE 300A LSI CB/N4XSS
BKR. EHSA 400A LSI CB/N4XSS
48,155 400A AUTOMATIC TRANSFER SWITCH - LS 65kA rated
(EXIST.) AUTOMATIC TRANSFER SWITCH

DISTRIBUTION PANEL
277/480V, 3PH, 4W, 400A MCB
65,000A AIC
EHSA — SPD — ISC: 47,176A

3P/200A/LSI	3P/150A/LSI	3P/100A/LSI	3P/100A/LSI	3P/100A/LSI	3P/100A/LSI	3P/100A/LSI
200A-1	150A-1	100A-1	100A-1	100A-1	100A-2	100A-2
ISC: 5,515A	ISC: 6,081A	ISC: 6,732A	ISC: 21,998A	ISC: 4,116A	ISC: 4,380A	ISC: 4,047A
CDPE	EPDE	1FHE (E)	1GHE (E)	HPDE	IPDE	2JHE (E)
60A	75P	1FTE	1GTE	30P	30P	2JTE
45KVA — TCLES — #6G	75KVA — TELES — #2G	30KVA — EXISTING	15KVA — EXISTING	30KVA — THLES — #6G	30KVA — TILES — #6G	30KVA — EXISTING
ISC: 3,393A	ISC: 4,976A	ISC: 2,573A	ISC: 1,521A	ISC: 2,328A	ISC: 2,363A	ISC: 2,319A
45S	75S	1FLE (E)	1GLE (E)	30S	30S	2JLE (E)
CLES	ELES			HLES	ILES	

PHE (E) — PTE — 15KVA — EXISTING — 3P/50/LSI — PLE (E)

2JHE (E) — EXIST — ISC: 2,528A — 1KHE (E) — 1KTE — 15KVA — EXISTING — ISC: 1,220A — 1KLE (E)

ISC: 44,522A — EXISTING DISTRIBUTION PANEL
CPDE (E) — SPD

3P/150A	3P/100A	3P/100A	3P/100A	3P/100A	3P/100A	3P/100A
EXIST	EXIST		SPARE	SPARE	EXIST	EXIST
CPHE (E)	1DHE (E)	1EHE (E)			ISC: 2,783A	1HHE (E)
CPTE — 15KVA — EXISTING	EXIST	1ETE — 15KVA — EXISTING			1ITE — 30KVA — EXISTING	1HTE — 30KVA — EXISTING
CPLE (E)	1CHE (E)	1ELE (E)			ISC: 2,084A	3P/100
	1CTE — 15KVA — EXISTING	1ETE2 — 9KVA — EXISTING			3P/100	1HLE (E)
	3P/50	1ELE2 (E)			1ILE (E)	
	1CLE (E)	EXIST			ISC: 2,084A	
	EXIST	2DHE (E)			100A-1	
	1BHE (E)	2DTE — 15KVA — EXISTING			ISC: 1,440A	
EXIST	1BTE — 15KVA — EXISTING	2DLE (E)			2JLE2	
2CHE (E)	1BLE (E)				SPD	
2CTE — 15KVA — EXISTING						
2CLE (E)						

EXISTING MAIN SWITCHBOARD - 'MSC'
277/480V, 3PH, 4W, 4000 MCB
100,000A AIC

4000A 3P GFI — 3P/1200A — 3P/600A — ISC: 51,926A — ISC: 28,393A
1HD1 (E) — 1GH1 (E)
NEW PULLBOX. RE: ELECTRICAL SITE PLAN — 600A — NEW PULLBOX. RE: ELECTRICAL SITE PLAN
ISC: 9,528A — ABD (E) — ISC: 1,604A — 45P — DISC. SLT 30A/30AF /3P — SERVICE RATED
ISC: 1,546A — 15P-1 — SLT — #8G — 15KVA
(2)COPPERWELD 3/4" X 10'-0" COPPERWELD GROUND RODS. BOND PER NEC 6' APART. DO NOT BOND NEUTRAL TO GROUND. ALL GROUNDING ELECTRODE CONDUCTOR TERMINATIONS TO BE CADWELD.
60A — ISC: 1,077A — SDL

1G2T — 45KVA — EXISTING — ISC: 9,047A — 1GT1 — 75KVA — EXISTING — ISC: 5,208A — NEW SECTION — 1GL1-1 (E) — 1GL1 — SPD
1GL2 (E) — SPD
ISC: 9,047A — 30P — 1BBT — 30KVA — #6G — 30C — ISC: 2,450A — BB — SPD
ISC: 8,477A — 30P — 1GT3 — 30KVA — #6G — 30S — ISC: 2,431A — 1GL3 — SPD

ELECTRICAL LOAD ANALYSIS
EXIST. GENERATOR

277/480, 3PH, 4W
280kW/350kVA

LOAD DESCRIPTION	LOAD KVA
EXISTING LOAD PER OWNER	99.7
EXISTING CALCULATED LOAD @125% (NEC 220.87)	125
NEW LOAD:	
RECEPTACLES (CONNECTED NEC 220.44)	69.7
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	29.9
HVAC - FANS, AHU'S (NEC 220)	76.5
LIGHTING	2.9
LIGHTING @ 125%	3.6
TOTAL LOAD:	
TOTAL KVA	245
TOTAL AMPS	295

ELECTRICAL LOAD ANALYSIS
EXIST. MSB

277/480, 3PH, 4W
4000A

LOAD DESCRIPTION	LOAD KVA
EXISTING CALCULATED LOAD	1905
RECEPTACLES (CONNECTED NEC 220.44)	69.7
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	29.9
HVAC - FANS, AHU'S (NEC 220)	76.5
LIGHTING	2.9
LIGHTING @ 125%	3.6
TOTAL KVA	2025
TOTAL AMPS	2437

ELECTRICAL LOAD ANALYSIS
EXIST. MSC

277/480, 3PH, 4W
3000A

LOAD DESCRIPTION	LOAD KVA
EXISTING CALCULATED LOAD	2247
RECEPTACLES (CONNECTED NEC 220.44)	76.7
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	33.35
HVAC - FANS, AHU'S (NEC 220)	25.1
LIGHTING	10.4
LIGHTING @ 125%	13
TOTAL KVA	2329
TOTAL AMPS	2803

NOTE: EXISTING LOAD WAS REDUCED AT MSB BY REPLACING HID THEATRICAL FIXTURES WITH LED. MOST LOADS ON NEW PANELS ARE EXISTING LOADS MOVED TO NEW LIFESAFETY GENERATOR BRANCH. NEW LOADS SHOWN ARE THE NEW EMERGENCY LOADS CALCULATED FOR THE ADDITIONS.

N — 1 **PARTIAL ONE-LINE DIAGRAM**
Scale: N.T.S.

TWO-HOUR FIRE RATED CABLE:

1. TWO-HOUR FIRE RATED POWER CABLE SHALL BE APPROVED BY THE LOCAL AHJ AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH UL FIRE RESISTANCE DIRECTORY, ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT), AND SYSTEM 27.

2. TWO-HOUR FIRE RATED POWER CABLE SHALL BE INSTALLED AS APPROVED BY THE LOCAL AHJ IN STEEL EMT OR STEEL RICID CONDUIT WITH STEEL SET SCREW OR THREADED FITTINGS. UL LISTED FLEXIBLE METALLIC STEEL CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 6-FEET. SUPPORT CONDUIT EVERY 5-FEET ON CONCRETE OR MASONRY WALLS OR A CONCRETE FLOOR-CEILING ASSEMBLY. THE FIRE RATING OF THE WALL OR FLOOR-CEILING ASSEMBLY MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE ELECTRICAL CIRCUIT PROTECTIVE SYSTEM. PROVIDE J-BOX AT EACH END OF THE FIRE RATED CABLES IN THE FIRE RATED ROOM TO ALLOW SPLICE TO STANDARD BUILDING CABLE TO THE EQUIPMENT. PROVIDE SEALANT TO THE END OF THE RACEWAY TO PREVENT GASES FROM MIGRATING FROM THE FIRE RATED CABLE DOWN INTO THE EQUIPMENT.

INSULATION FOR TWO-HOUR FIRE RATED POWER CABLE:

1. INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR CIRCUIT INTEGRITY OF FIRE-RESISTIVE POWER, INSTRUMENTATION, CONTROL AND DATA CABLES, AND UL 44, THERMOSET INSULATED WIRES AND CABLES.

   a. INSULATION FOR CONDUCTORS SHALL BE UL TYPE RHW-2 OR RW90, 90 DEGREES C FOR WET LOCATIONS AND 90 DEGREES C FOR DRY LOCATIONS.
   b. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT) – SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY.

ELECTRICAL RISER KEYED NOTES

1 PROVIDE DRY CONTACT CLOSURE FOR SEPARATE MONITORING INTERFACE FOR EACH ATS WITH SECURITY PANEL.
2 SELECTIVELY COORDINATE ALL EQUIPMENT DEDICATED TO THE LIFE SAFETY EMERGENCY SYSTEM, INCLUDING BUT NOT LIMITED TO, PANELBOARDS TYPE AND SIZE, BRANCH AND FEEDER CIRCUIT BREAKERS, AND GENERATOR WITH MANUFACTURER TO COMPLY WITH COORDINATION STUDY REQUIREMENTS PRIOR TO SUBMITTAL. REFER TO NEC-2023:700.
3 INTERCEPT EXISTING FEEDER AND EXTEND CONDUITS AND WIRING TO NEW UPSTREAM DISTRIBUTION PANEL. INTERCEPT EXISTING PANEL FEEDER AT CLOSEST POSSIBLE LOCATION TO NEW SUPPLY PANEL.
4 PROVIDE NEW 480V 3PH, 3POLE 600A LSI BREAKER.
5 PROVIDE FEED THROUGH LUG KIT FOR EXISTING PANEL.
6 PROVIDE NEW MAIN BREAKER IN EXISTING PANEL.
7 PROVIDE NEW 3P/25A BREAKER IN EXISTING PANEL.
8 1" C TO ATS FOR CONTROL WIRING REFER TO SPECIFICATIONS AND COORDINATE WITH MANUFACTURER. TYPICAL
9 PROVIDE TWO-HOUR FIRE RATED CABLE.
10 DOUBLE-THROW MANUAL TRANSFER SWITCH WITH INTEGRATED QUICK-CONNECTS IN SINGLE PACKAGE. REFER TO SPECIFICATIONS.

FEEDER SCHEDULE

MARK	NOMINAL AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
15P-1	40A	1	(3) #8	#8	1-1/4"C
30C	125A	1	(3) #2/0, (2) #4 NEUTRALS	#6 G., (1) #6 ISO. INSUL. G.	2"C
30P	50A	1	(3) #6	#10	1"C
30S	100A	1	(4) #1/0	#6	2"C
45P	70A	1	(3) #4	#8	1-1/4"C
45S	175A	1	(4) #2/0	#4	2"C
60A	60A	1	(4) #4	#10	1-1/4"C
60S	60A	1	(5) #4	-	1-1/4"C
75P	125A	1	(3) #1	#6	1-1/4"C
75S	250A	1	(4) #250KCMIL	#4	3"C
100A-1	150A	1	(4) #1/0	#6	2"C
100A-2	200A	1	(4) #3/0	#6	2-1/2""C
150A-1	200A	1	(4) #3/0	#6	2-1/2""C
200A-1	350A	2	(4) #2/0	#3	2"C
300A	300A	2	(4) #1/0	#4	2"C
400A	400A	2	(4) #3/0	#3	2-1/2"C
600A	600A	2	(4) #350KCMIL	#1	3"C

1 CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 - COPPER.

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

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ELECTRICAL PARTIAL ONE-LINE DIAGRAM

Job No. 01818-05-01 — Drawn By: KJ — Date: 11/11/2024 — Sheet No. E6.02

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A3	DAYBRITE	2-FPZ-38B-840-2-DS-UNV-DIM	RECESSED	3800L LED	4000 K	80	277 V	34 W	LED 2'x2' FLAT PANEL TROFFER. ACRYLIC DIFUSSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A1	DAYBRITE	2-FPZ-48L-840-4-DS-UNV-DIM	RECESSED	4800L LED	4000 K	80	277 V	37 W	LED 2x4' FLAT PANEL TROFFER. ACRYLIC DIFUSSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2	DAYBRITE	2-FPZ-43L-840-4-DS-UNV-DIM	RECESSED	4300L LED	4000 K	80	277 V	30 W	LED 2x4' FLAT PANEL TROFFER. ACRYLIC DIFUSSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2L	DAYBRITE	2-FPZ-43L-840-4-DS-UNV-DIM	RECESSED	4300L LED	4000 K	80	120 V	30 W	LED 2x4' FLAT PANEL TROFFER. ACRYLIC DIFUSSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2LE	DAYBRITE	2-FPZ-43L-840-4-DS-UNV-DIM-BSL10LST	RECESSED	4300L LED	4000 K	80	120 V	30 W	LED 2x4' FLAT PANEL TROFFER. ACRYLIC DIFUSSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
ATH	ZANIBONI	LAR3S-13W-RW-B-6-C-BK-X0	WALL	944L LED	RGBW	80	120 V	13 W	LED 3" CYLINDER WALL MOUNT DOWNLIGHT WITH BLACK HOUSING. RGBW WITH DMX CONTROL AND 60 DEGREE BEAM. MOUNTING HEIGHT TO MATCH EXISTING FIXTURES. PROVIDE RGB FIXTURE WITH DMX CONTROLS. FIXTURE USE FOR 'RUN OF SHOW' DEFAULT RGB COLOR SETTING TO BE BLUE.
BTH	STONCO	VWXL-14-NW-G1-8	WALL	1390L LED	4000 K	80	120 V	14 W	LED 6" VAPOR TIGHT JAR LIGHT. WALL MOUNT DOWNLIGHT MOUNTING HEIGHT TO MATCH EXISTING FIXTURES. DLC CERTIFIED.
C1	DAYBRITE	FSS4-40L-840-UNV-DIM/FKR-126/FSSWG4	SURFACE / CHAIN HANG	4000L LED	4000 K	80	277 V	30 W	LED 4-FEET STRIP, ACRYLIC LENS. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE WITH WIREGUARD.
C1LE	DAYBRITE	FSS4-40L-840-UNV-DIM/FKR-126/FSSWG4	SURFACE / CHAIN HANG	4000L LED	4000 K	80	120 V	30 W	LED 4-FEET STRIP, ACRYLIC LENS. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE EMERGENCY BATTERY BACKUP. PROVIDE WITH WIREGUARD.
CTH	DAYBRITE	FSS4-40L-835-UNV-DIM/FKR-126/FSSWG4	SURFACE / CHAIN HANG	4000L LED	3500 K	80	120 V	30 W	LED 4-FEET STRIP, ACRYLIC LENS. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE WITH WIREGUARD.
D3	LIGHTOLIER	6RN/P6R-DL-50-940-M-CC-BK-B-Z10-U	RECESSED	5000L LED	4000 K	80	277 V	42 W	LED 6" RECESSED CAN LIGHT. BLACK REFLECTOR AND BLACK TRIM. 0-10V DIMMING DRIVER. DLC CERTIFIED.
D2	LIGHTOLIER	6RN/P6R-DL-30-940-M-CC-Z10-U	RECESSED	3000L LED	4000 K	80	277 V	30 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED.
DTH2	LIGHTOLIER	CALCULITE - C2RPC_DL-15-935--NS-UPZU-B	RECESSED	1500L LED	3500 K	80	120 V	25 W	LED 2" PENDANT DOWNLIGHT CYLINDER THEATRICAL ACCENT LIGHTING FIXTURE. 0-10V DIMMING DRIVER.
DTH	LIGHTOLIER	6RN/P6R-DL-30-835-M-CC-BK-B-Z10-U	RECESSED	3000L LED	3500 K	80	120 V	30 W	LED 6" RECESSED CAN LIGHT. BLACK REFLECTOR AND BLACK TRIM. 0-10V DIMMING DRIVER. DLC CERTIFIED.
GTH	GARDCO	GWM-A07-840-T3M-UNV-BK	WALL	4000L LED	4000 K		120 V	23 W	LED ARCHITECTURAL WALLPAK, BLACK HOUSING. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED.
MTH	SSRC	LED-IRL-8-1B-1W-2-DIM	SURFACE / CHAIN HANG	4000L LED	4000 K	80	120 V	50 W	LED 8-FEET INDEX RAIL LIGHT STRIP, (1) WHITE STRIP LIGHT AND (1) BLUE STRIP LIGHT. POLYCARBONATE LENS. WITH IRL DIMMER CONTROL BOX.
PTH2	LIGHTOLIER	CALCULITE - C6-P-DL-35-935-M-DMX-U-BK-B	PENDANT	3500L LED	3500 K	80	120 V	30 W	LED 6" PENDANT MOUNT DIRECT LED 48". BLACK HOUSING. DMX CONTROL.
PTH	KIRLIN	SSR-09620-4000L-3500K-MFL-38-ASB	PENDANT	4000L LED	3500 K	80	120 V	42 W	LED 6" PENDANT MOUNT DIRECT LED 48". BLACK HOUSING. DMX CONTROL. MEDIUM BEAM.
STH	CELESTIAL LIGHTING	GEMINI 1800-A-4	SURFACE	150L/ LED	AMBER	80	120 V	30 W	LED EDGE OF STEP TREAD (RISER). COORDINATE WITH EXISTING TRANSFORMER LOCATIONS.
T	LIGHTOLIER	6002X/9630	SURFACE	TRACK HEAD AS SPECIFIED	4000 K	80	120 V	120 W	TRACK LIGHT. PROVIDE 10 HEADS PER EACH RUN OF TRACK AS SHOWN ON PLANS. PROVIDE 60 WATT A19 LAMP FOR EACH HEAD. PROVIDE WATTSTOPPER LMPL-101 LOAD CONTROLLER FOR EACH LENGTH OF TRACK.
TR	LIGHTOLIER	LC-L-10-940-BK-LLM-RF	TRACK	TRACK HEAD AS SPECIFIED	4000 K	80	120 V	30 W	TRACK LIGHTING. PROVIDE THREE HEADS AND NEW 3' TRACK. PROVIDE WITH WIREGUARD.
C3	INSIGHT	PCM-5-40K-120-SM-48-UNV-DIM-MG-FL	SURFACE	1,925L LED	4000 K	80	277 V	64 W	LED 4' LINEAR DISPLAY CASE STRIP LIGHTING WITH 0-10V DIMMING DRIVER.
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K		277 V	40 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
W1L	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K		120 V	40 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
W1LE	GARDCO	GWM-A09-840-T3M-UNV-EC	WALL	6000L LED	4000 K		120 V	40 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
BL	ETC	BLUEDOME-BSDB-F-BSEL	WALL	870L LED	4000 K	80	277 V	8 W	BLUEDOME RUN OF SHOW LIGHTS. PROVIDE WITH DMX LOW VOLTAGE POWER SUPPLY AND EYELID ACCESSORY. PROVIDE (1) RECESSED RACO 4 SQUARE BACK BOX AT 24" AFF.
C1L	DAYBRITE	FSS4-40L-840-UNV-DIM/FKR-126/FSSWG4	SURFACE / CHAIN HANG	4000L LED	4000 K	80	120 V	30 W	LED 4-FEET STRIP, ACRYLIC LENS. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE WITH WIREGUARD.
X1	EMERGILITE	PRESTIEGE X40	CEILING	LED	4000 K	80	277 V	3 W	UNIVERSAL LED EXIT SIGN WITH BLACK HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
XTH	EMERGILITE	SVX-BB-R	SURFACE/CEILING	LED	4000 K	80	277 V	3 W	UNIVERSAL LED EXIT SIGN WITH BLACK VANDAL-RESISTANT HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

1 FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.

3 REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.

4 UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.

5 ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.

6 EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.

7 LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.

8 FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.

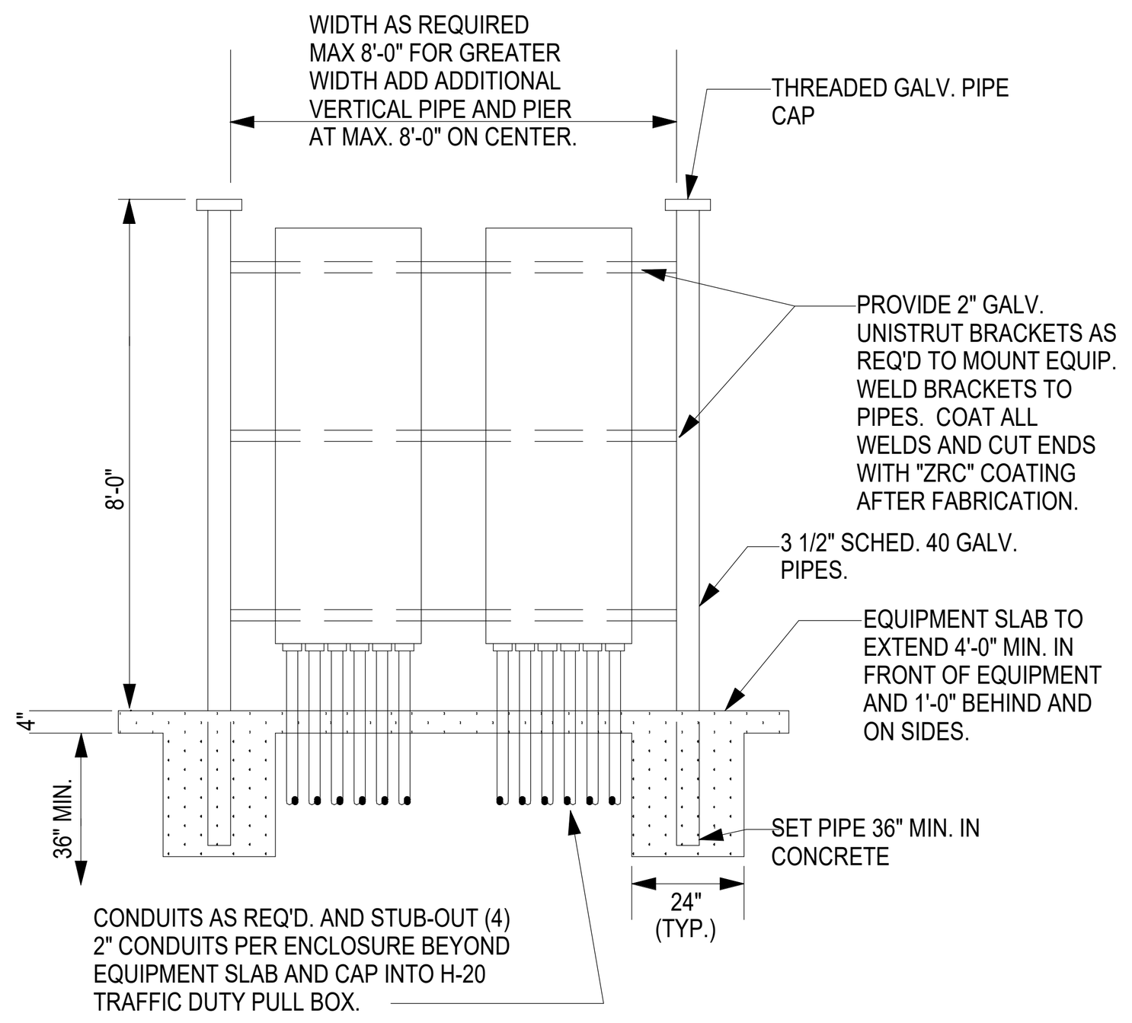
9 ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.

10 THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.

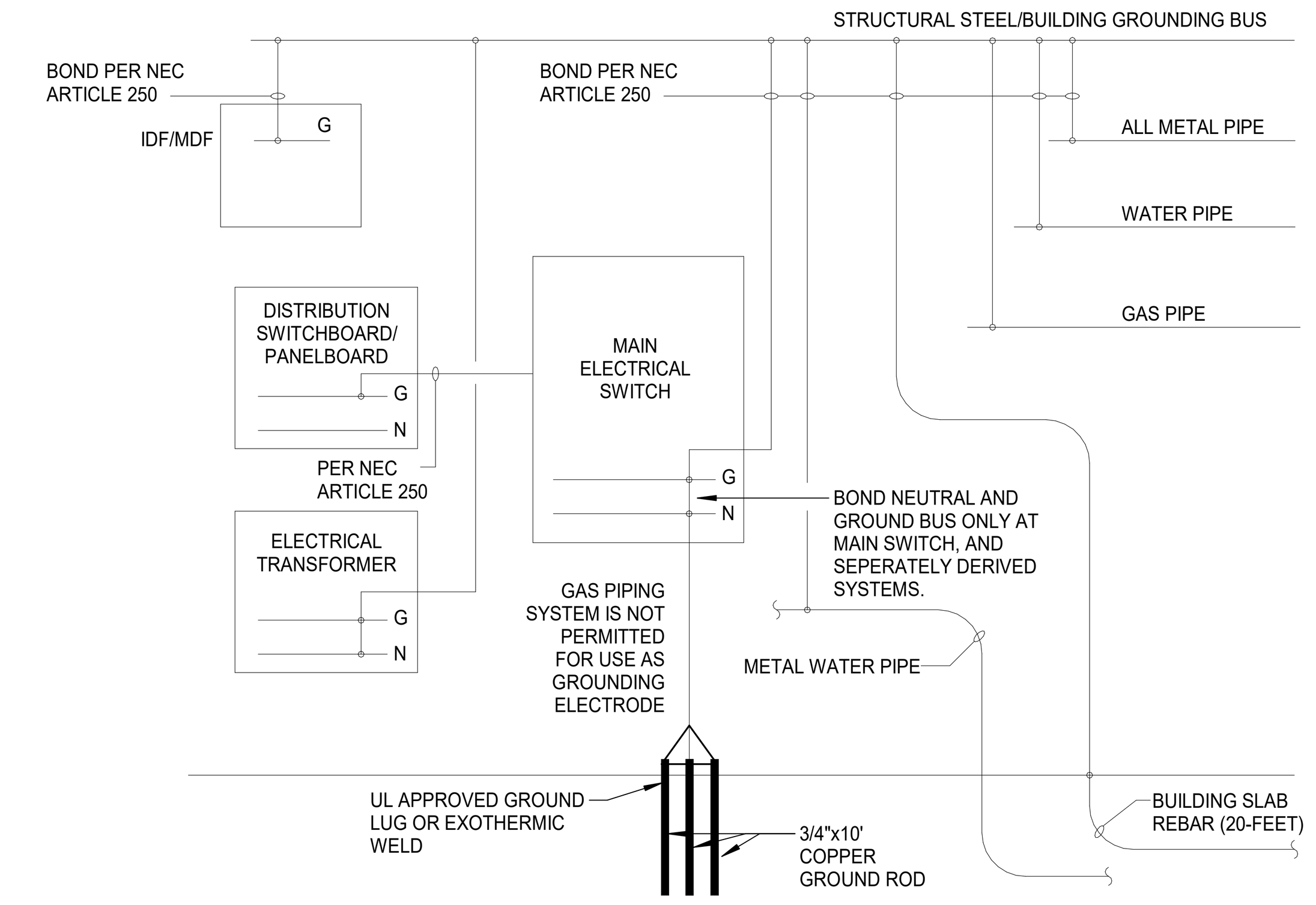
11 WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.

12 FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.

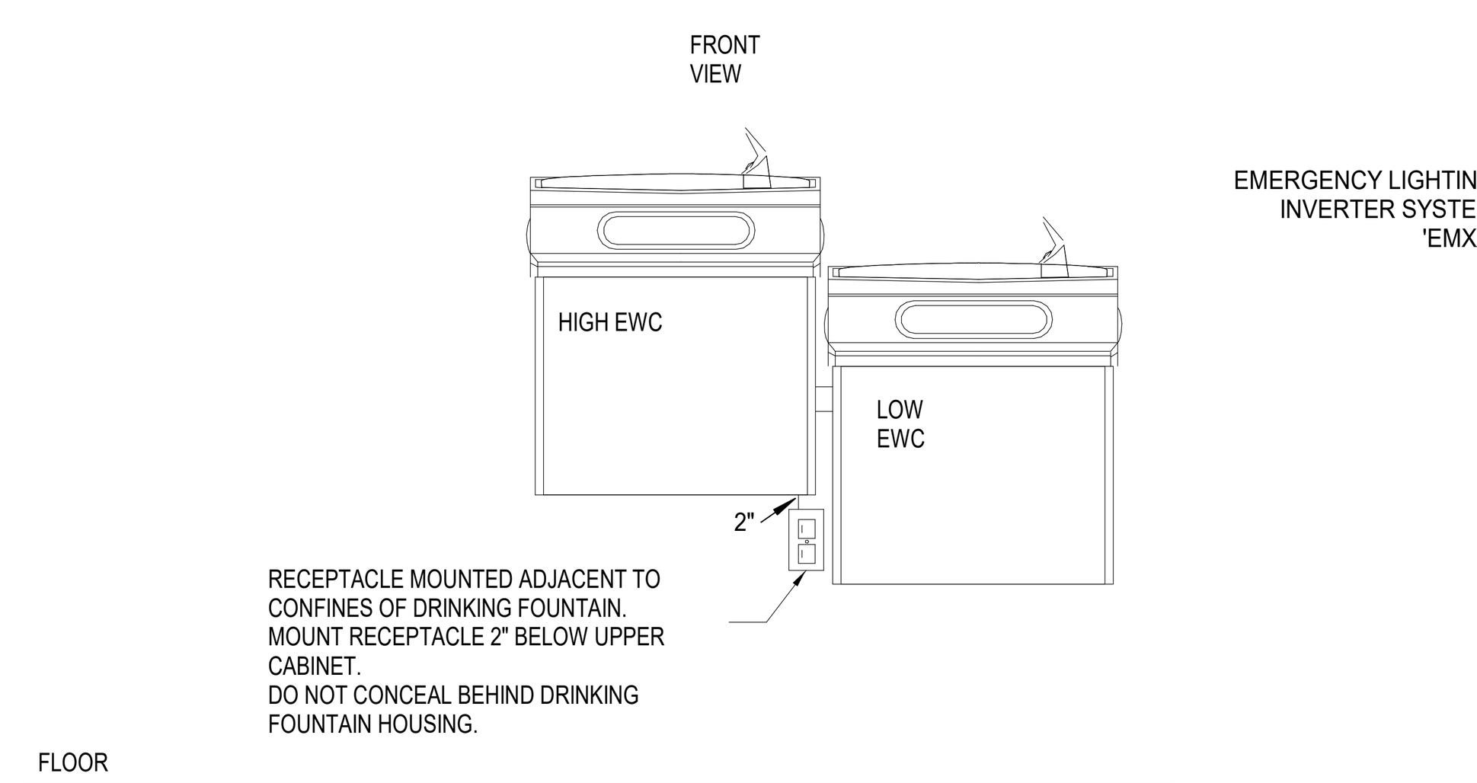
APPROVED LIGHTING MANUFACTURERS:
SURFACE / RECESSED LIGHTING: SIGNIFY, LITHONIA, METALUX, AXIS, CURRENT, PINNACLE, H.E. WILLIAMS, CREE, NULITE, ALW
DOWN / TRACK LIGHTING: GOTHAM, LIGHTOLIER, PORTFOLIO, CREE, CURRENT, INDY, H.E. WILLIAMS
ARCHITECTURAL WALLPACK: LITHONIA, VISIONAIRE, CURRENT, GARDCO, McGRAW EDISON, HUBBELL, LSI, LUMARK, LIGMAN
EXIT SIGNAGE: CHLORIDE, LITHONIA, EMERGI-LITE, DUAL-LITE, SURE-LITES, EVENLITE



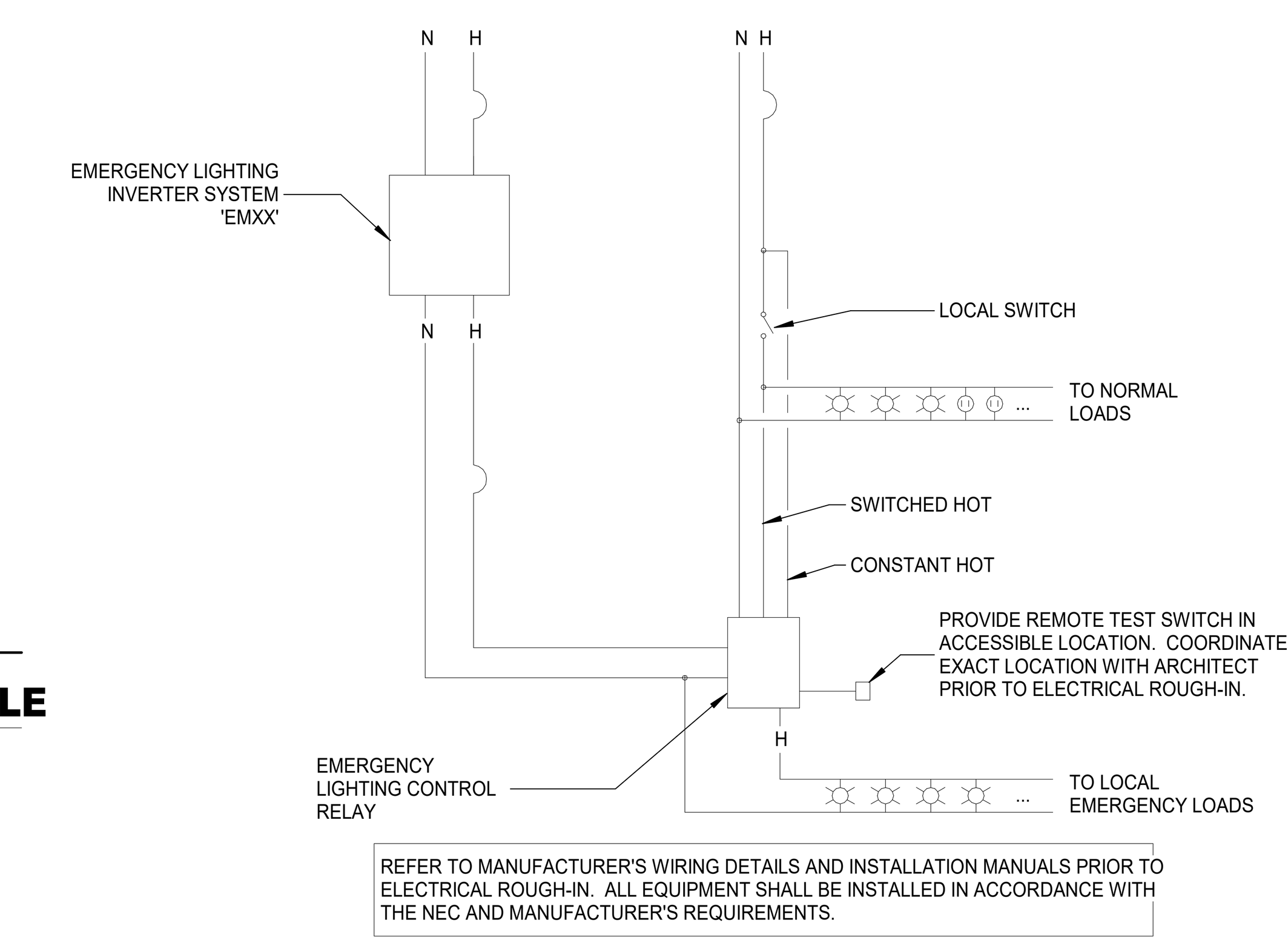
2 **ELECTRICAL EQUIPMENT RACK DETAIL**
Scale: NOT TO SCALE



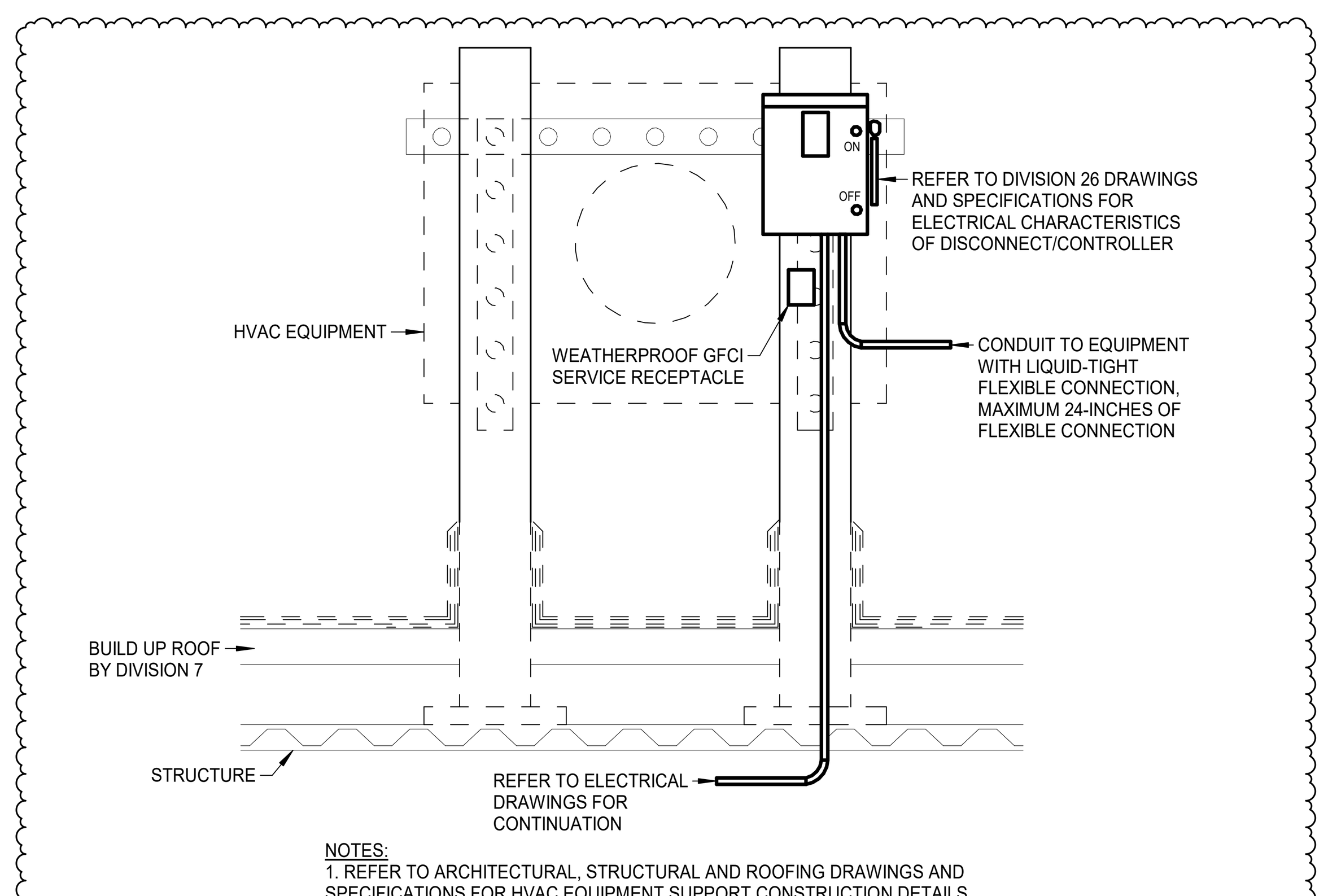
5 **SYSTEM GROUNDING DETAIL**
Scale: NOT TO SCALE



6 **DRINKING FOUNTAIN WITH GFCI RECEPTACLE**
Scale: NOT TO SCALE



7 **EMERGENCY LIGHTING CONTROL RELAY**
Scale: NOT TO SCALE



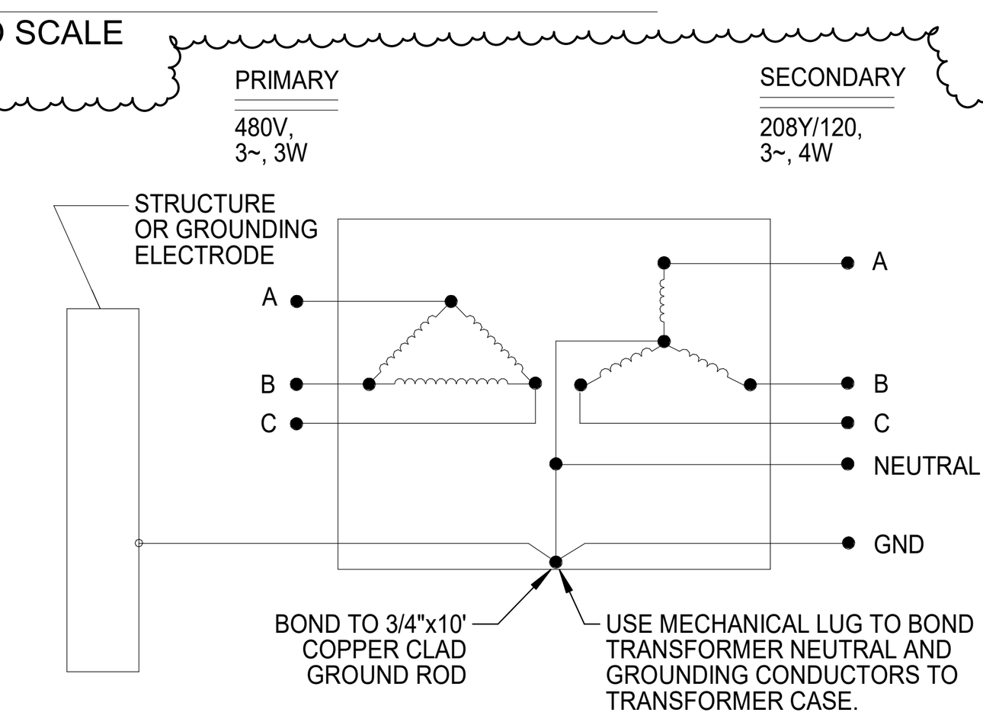
NOTES:
1. REFER TO ARCHITECTURAL, STRUCTURAL AND ROOFING DRAWINGS AND SPECIFICATIONS FOR HVAC EQUIPMENT SUPPORT CONSTRUCTION DETAILS.

8 **ROOF ACCU SUPPORT DISCONECT**
Scale: NOT TO SCALE

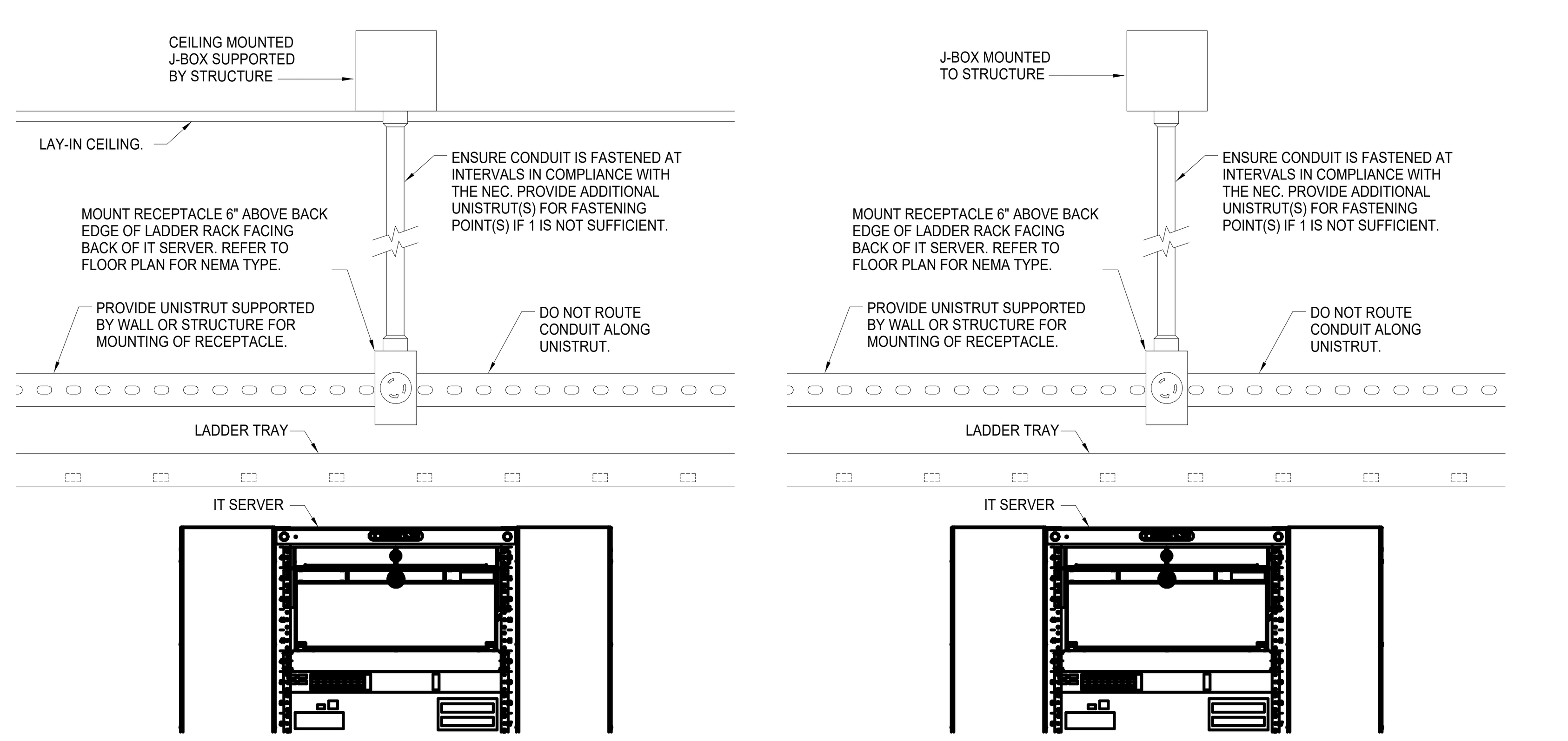
LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Total Zones	Description
RA	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	ROOM CONTROLLER, 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	ROOM CONTROLLER, NO DIMMING.
RE	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	CORRIDOR ROOM CONTROLLER, NO DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. PROVIDE OCCUPANCY BASED SENSORS WHERE SHOWN. LOCATE (1) KEYED SWITCH AT MAIN ENTRY DOOR ADJACENT TO SECURITY KEYPAD.
RJ	NONE	1	MECHANICALLY WOUND TIMER SWITCH. WHERE MULTIPLE SWITCHES ARE USED, THESE SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
RT	NONE	1	DMX CONTROLS. REFER TO THEATRICAL DRAWINGS FOR MORE INFORMATION.
ER	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM
ES	-	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

NOTES:
- PER 2015 IECC C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.
- REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.
- PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.
- LOCATE PHOTOSENSOR SURFACE MOUNTED ON THE NORTH SIDE OF THE BUILDING. LOCATION IS TO BE APPROVED BY OWNER / ARCHITECT.
- CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.



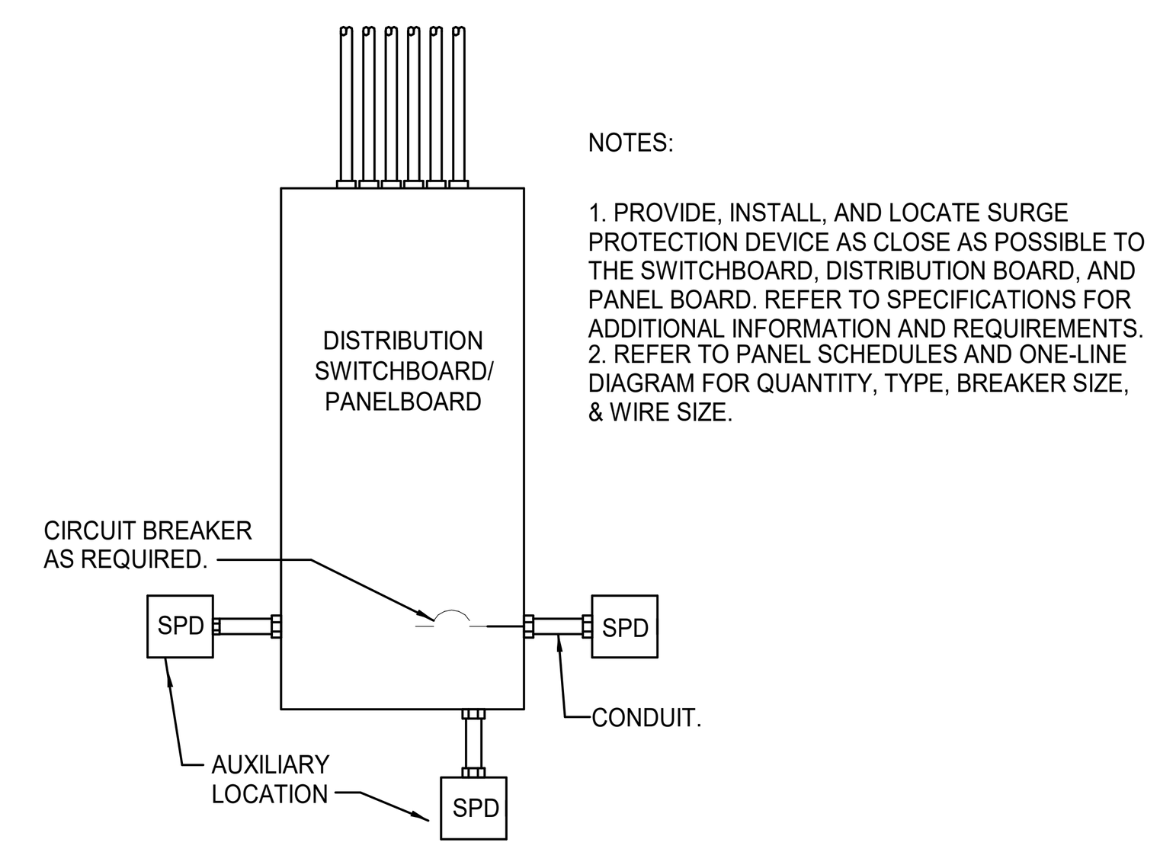
3 **GROUNDING FOR TRANSFORMERS**
Scale: NOT TO SCALE



LAY-IN CEILING IDF/MDF RACK RECEPTACLES

EXPOSED CEILING IDF/MDF RACK RECEPTACLES

1 **IDF/MDF RACK RECEPTACLE MOUNTING**
Scale: N.T.S.



NOTES:
1. PROVIDE, INSTALL, AND LOCATE SURGE PROTECTION DEVICE AS CLOSE AS POSSIBLE TO THE SWITCHBOARD, DISTRIBUTION BOARD, AND PANEL BOARD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR QUANTITY, TYPE, BREAKER SIZE, & WIRE SIZE.

4 **SURGE PROTECTION DEVICE DETAIL**
Scale: NOT TO SCALE

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
	LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	SWITCHES
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
[B]	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
G	20 AMP GENERATOR TRANSFER DEVICE
	LOW VOLTAGE LIGHTING CONTROLS
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
P	CEILING MOUNTED PHOTO SENSOR
V	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
S	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
R	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
	RECEPTACLES AND OUTLETS
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	ISOLATED GROUND RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
	MISCELLANEOUS EQUIPMENT
[FACP]	FIRE ALARM CONTROL PANEL
[ANNC]	FIRE ALARM REMOTE ANNUCIATOR
[T]	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
	MOTOR CONTROLLERS AND EQUIPMENT
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
	DISCONNECT SWITCH AS REQUIRED
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
$M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
VFD	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
PB	IN-GROUND PULL BOX
	ELECTRICAL EQUIPMENT
	ELECTRICAL DISTRIBUTION OR PANELBOARD
*	ELECTRICAL EMERGENCY LIFE SAFETY DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
	CIRCUITING
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	SUBSCRIPTS AND ABBREVIATIONS
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
⊢	INDICATES WALL MOUNTED DEVICE
●	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

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Revision / 1 | Date 11-20-24 | Addendum 02

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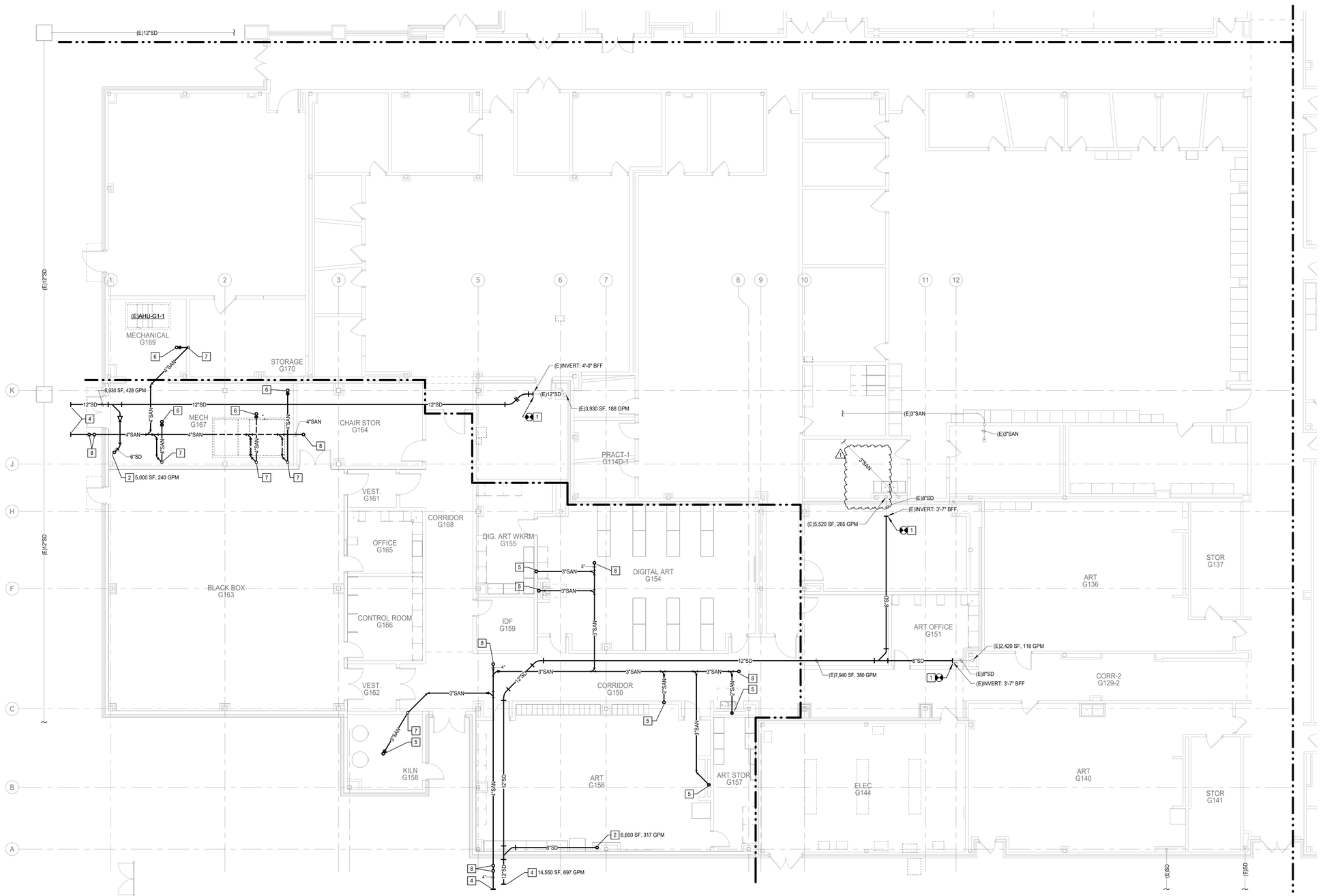
ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

Job No. 01818-05-01
Drawn By: KJ
Date: 11/11/2024
Sheet No. E8.01

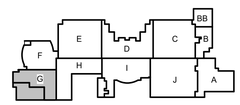
PLUMBING KEYED NOTES:

1. CONNECT NEW STORM PIPING TO EXISTING STORM MAIN BELOW THE FLOOR BELOW. EXTEND BEYOND LOCATION OF NEW BUILDING ADDITION.
2. 6" STORM FROM ABOVE.
3. 8" STORM FROM ABOVE.
4. REFER TO SHEET P1.01 FOR CONTINUATION.
5. 2" WASTE FROM ABOVE.
6. 4" WASTE FROM ABOVE.
7. 2" VENT UP THROUGH FLOOR SLAB.
8. FULLSIZE WASTE FROM CLEANOUT ABOVE.



N

1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - AREA G**
Scale: 1/8" = 1'-0"



KEY PLAN - FIRST FLOOR
N.T.S.

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PLUMBING UNDERFLOOR PLAN - AREA G

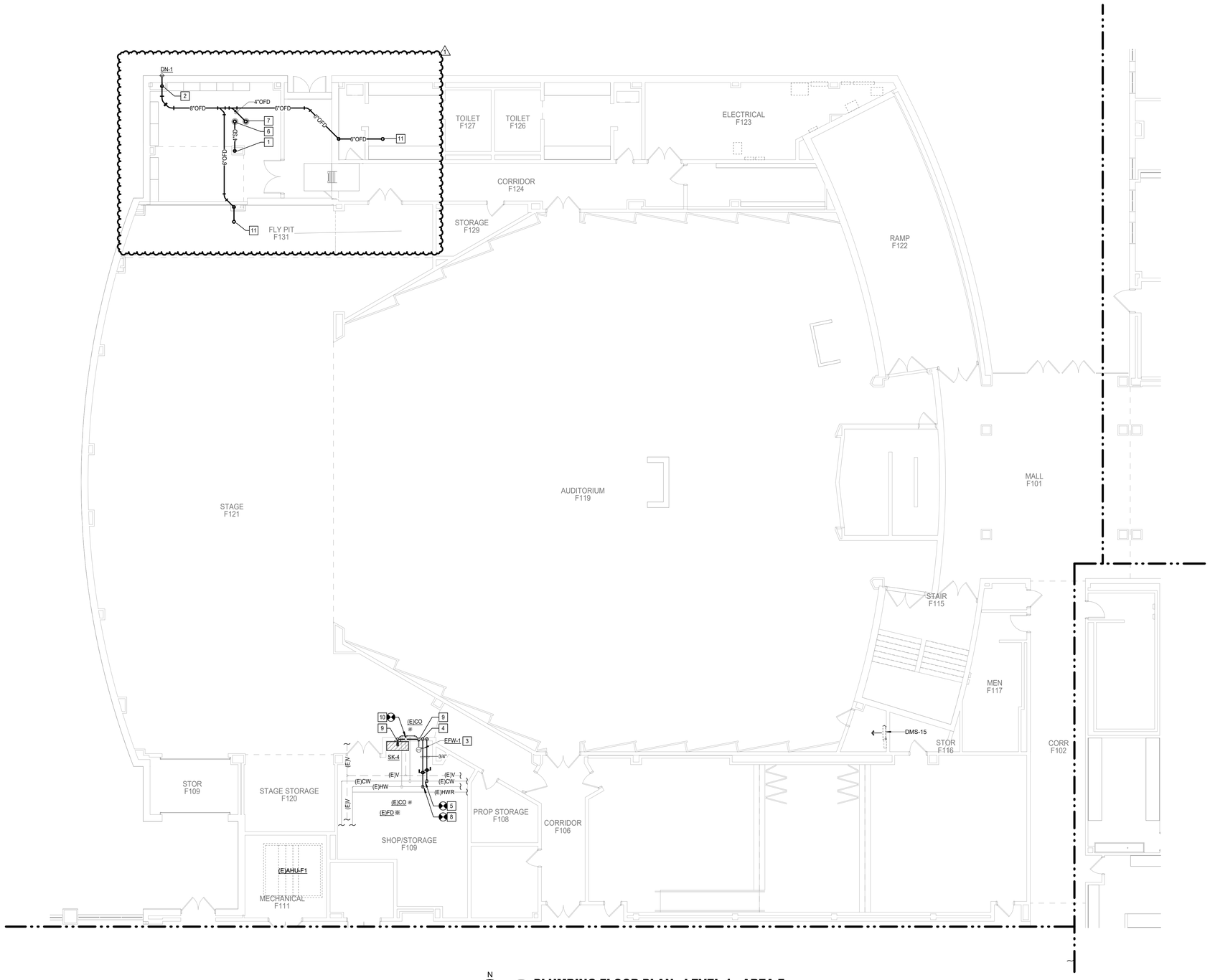
Job No.	Sheet No.
01818-05-01	P2.02
Drawn By: VU	
Date: 11/11/2024	

FIRE SPRINKLER NOTE:

EXISTING FIRE SPRINKLER SYSTEM TO BE MAINTAINED IN FULL OPERATING ORDER FOR ENTIRE BUILDING AT ALL TIMES. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR UP DATE CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING KEYED NOTES:

1. 4" STORM DOWN TO BELOW FLOOR SLAB.
2. 6" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE (DN-1).
3. PROVIDE NEW WALL MOUNTED EMERGENCY FACEWASH. CONNECT 2" WASTE AND 2" VENT TO EXISTING WASTE AND VENT IN WALL SERVING EXISTING FIXTURE.
4. 3/4" HOT AND COLD WATER DOWN WALL TO SERVE NEW FIXTURE.
5. CONNECT NEW COLD WATER PIPING TO EXISTING COLD WATER PIPING ABOVE CEILING. FIELD VERIFY.
6. 4" STORM FROM ROOF DRAIN ABOVE.
7. 4" OVERFLOW FROM ROOF DRAIN ABOVE.
8. CONNECT NEW HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. FIELD VERIFY.
9. 2" VENT FROM BELOW.
10. CONNECT NEW SINK AND EMERGENCY EYEWASH WASTE TO EXISTING WASTE ALWAU
11. 6" OVERFLOW FROM ROOF DRAIN ABOVE.



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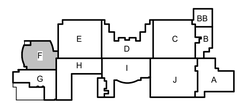
1 **PLUMBING FLOOR PLAN - LEVEL 1 - AREA F**
Scale: 1/8" = 1'-0"



KEY PLAN - FIRST FLOOR
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PLUMBING FIRST FLOOR PLAN - AREA F

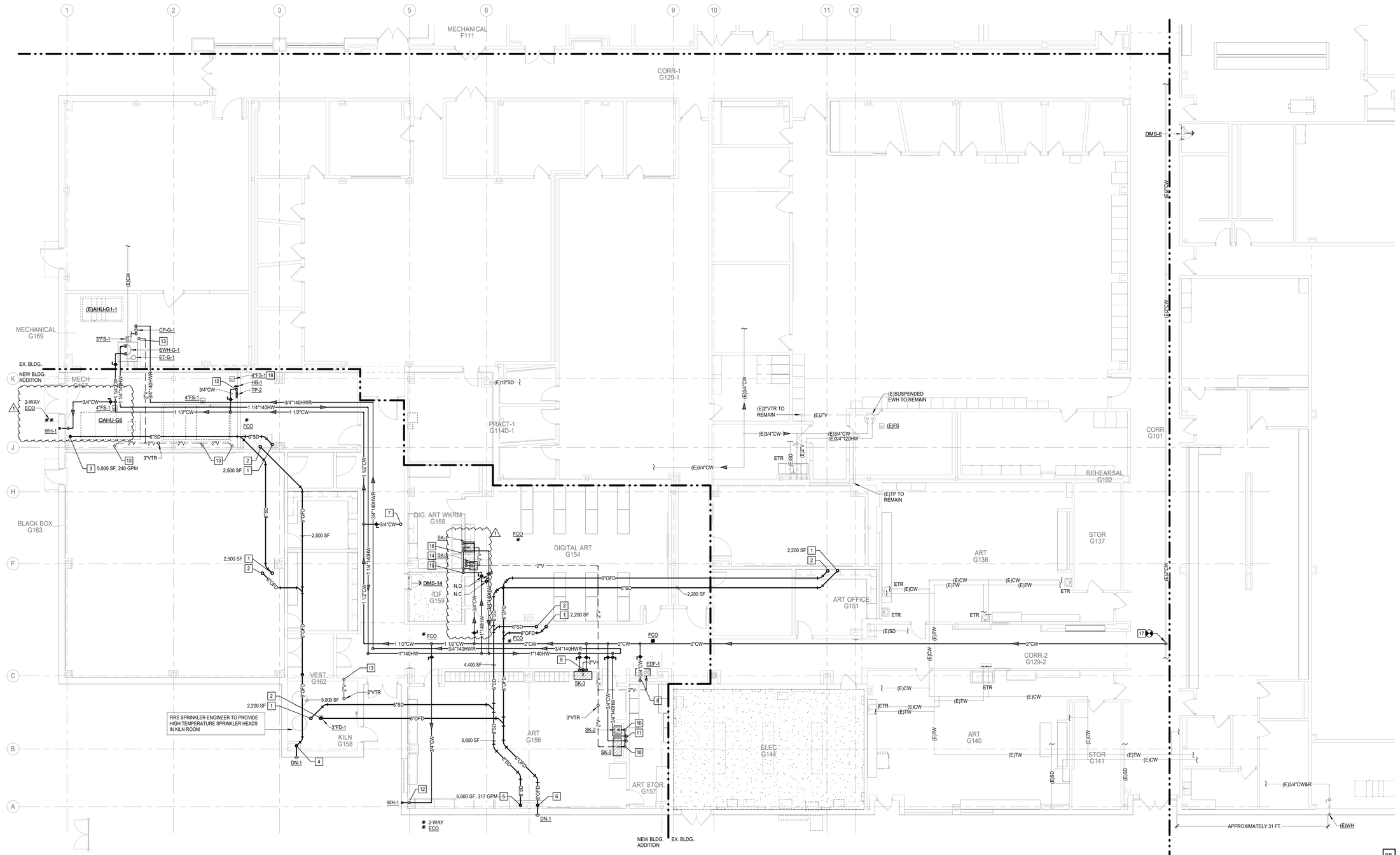
Job No.	Sheet No.
01818-05-01	P3.01
Drawn By: VU	
Date: 11/11/2024	

FIRE SPRINKLER NOTE:

EXISTING FIRE SPRINKLER SYSTEM TO BE MAINTAINED IN FULL OPERATING ORDER FOR ENTIRE BUILDING AT ALL TIMES. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR UP DATE CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING KEYED NOTES:

1. 6" STORM FROM ROOF DRAIN ABOVE.
2. 6" STORM OVERFLOW FROM ROOF ABOVE.
3. 6" STORM DOWN TO BELOW FLOOR SLAB.
4. 6" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE DN-1.
5. 8" STORM DOWN TO BELOW FLOOR SLAB.
6. 8" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE DN-1.
7. 3/4" COLD WATER UP TO ROOF HYDRANT TO SERVE MECHANICAL CONDENSING UNITS.
8. 2" WASTE, 2" VENT UP, 3/4" COLD WATER DOWN TO SERVE FIXTURE(S).
9. 2" WASTE, 2" VENT UP, 3/4" HOT AND COLD WATER DOWN TO SERVE FIXTURE(S).
10. 2" WASTE, 2" VENT UP TO SERVE FIXTURE(S).
11. 3/4" HOT AND COLD WATER DOWN TO SERVE FIXTURE(S).
12. 3/4" COLD WATER DOWN TO SERVE FIXTURE(S).
13. 2" VENT FROM BELOW.
14. PROVIDE WYE-TAILPIECE ON P-TRAP OF SINK FOR MECHANICAL CONDENSATE ROUTING. REFER TO DETAIL ON SHEET P5.02.
15. 3/4" HOT WATER PIPING DOWN IN CHASE/WALL TO SERVE PLUMBING FIXTURE(S).
16. 3/4" HOT WATER PIPING UP FROM CHASE/WALL.
17. CONNECT NEW COLD WATER PIPING TO EXISTING COLD WATER MAIN PIPING ABOVE CEILING. FIELD VERIFY.
18. 3"FS-1 DEDICATED DRAIN FOR ICE MACHINE. FLOOR SINK SHALL NOT BE OBSTRUCTED BY OR BENEATH CABINET OR OTHER EQUIPMENT. FLOOR SINK MUST REMAIN VISIABLE FOR INSPECTION.



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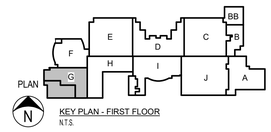
1 **PLUMBING FLOOR PLAN - LEVEL 1 - AREA G**

Scale: 1/8" = 1'-0"



KEY PLAN - FIRST FLOOR
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PLUMBING FIRST FLOOR PLAN - AREA G

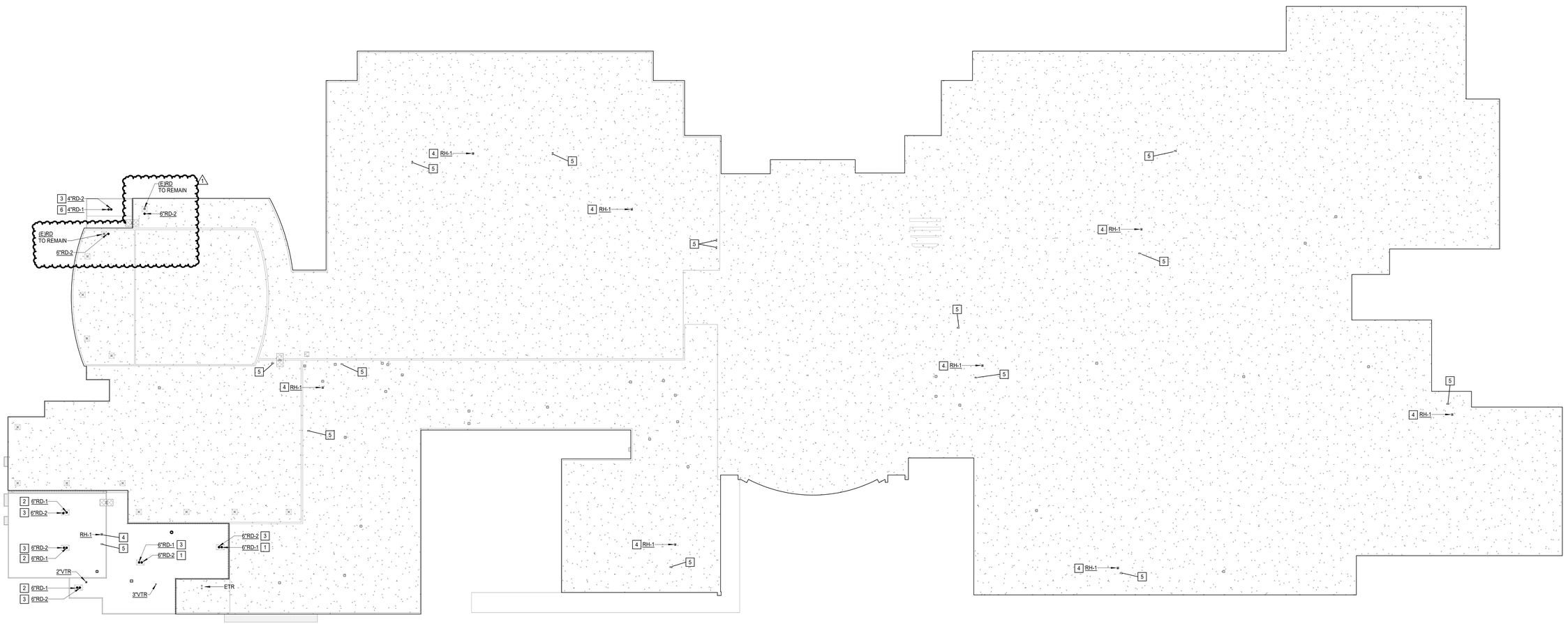
Job No.	Sheet No.
01818-05-01	P3.02
Drawn By: VU	
Date: 11/11/2024	

PLUMBING GENERAL STORM NOTES:

1. (E)ROOF DRAIN AND OVERFLOW SYSTEM TO REMAIN UNLESS NOTED OTHERWISE.
2. STORM SIZING IS BASED ON IPC 2018 - HOUSTON TEXAS OF 4.5" PER HOUR 100 YEAR STORM RAINFALL RATE. USED 4.5" RAINFALL RATE COLUMN.
3. UNLESS OTHERWISE SHOWN ON PLUMBING DRAWINGS, REFER TO ARCHITECTURAL PLANS FOR OVERFLOW STORM SYSTEM.
4. STORM DRAIN DISCHARGE, SLOPE ALL EXTERIOR STORM DRAIN RUN OUTS TO 5FT LINE. POINT OF CONNECTION WITH SITE CIVIL DRAINS. AT 1/4 INCH PER FOOT. ALL OTHER STORM DRAIN PIPING SHALL SLOPE 1/8 INCH PER FOOT UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATIONS AND DEPTHS OF PIPING PRIOR TO INSTALLATION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING MISALIGNED PIPING.

PLUMBING KEYED NOTES:

1. PRIMARY ROOF DRAIN SIZED FOR 2,200 SQUARE FEET, 105 GPM.
2. PRIMARY ROOF DRAIN SIZED FOR 2,500 SQUARE FEET, 120 GPM.
3. SECONDARY OVERFLOW ROOF DRAIN.
4. ROOF MOUNTED HYDRANT. REFER TO FIXTURE SPECIFICATION.
5. MECHANICAL CONDENSING UNIT ON ROOF.
6. PRIMARY ROOF DRAIN SIZED FOR 1,000 SQUARE FEET, 48 GPM.



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1 **PLUMBING ROOF PLAN**
Scale: 1/32" = 1'-0"

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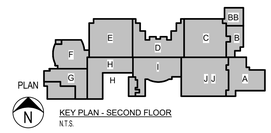
PLUMBING ROOF PLAN

Job No.	Sheet No.
01818-005-01	P4.01
Drawn By: VU	
Date: 11/11/2024	



KEY PLAN - SECOND FLOOR
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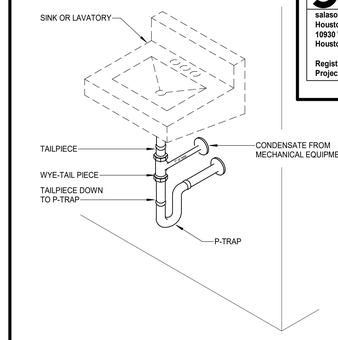
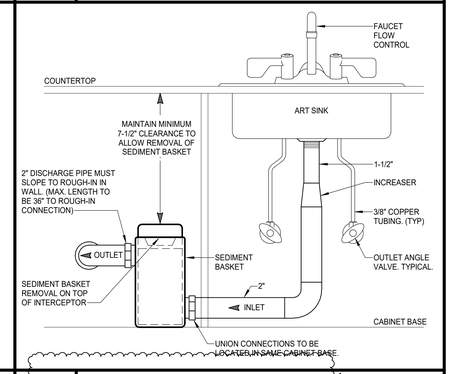
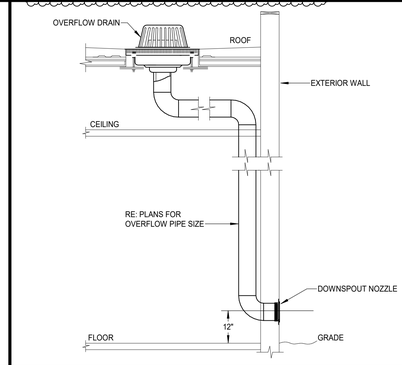


4 WYE-TAILPIECE CONDENSATE CONNECTION
SCALE: NONE

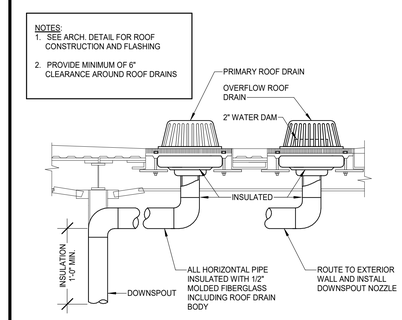


3 SINK WITH SOLIDS INTERCEPTOR
SCALE: NONE



2 EXTERIOR DOWNSPOUT NOZZLE - TYPICAL
SCALE: NONE

NOTES:
1. SEE ARCH. DETAIL FOR ROOF CONSTRUCTION AND FLASHING
2. PROVIDE MINIMUM OF 6" CLEARANCE AROUND ROOF DRAINS



1 ROOF AND OVERFLOW DRAIN INSULATION
SCALE: NONE

- INTENTIONALLY BLANK
SCALE: NONE

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PLUMBING DETAILS

Job No.	Sheet No.
01818-05-01	P5.02
Drawn By: VU	
Date: 11/11/2024	

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1 4" VTR	RISER FLAG

PLUMBING FIXTURE ROUGH-IN

FIXTURE	SAN	VENT	CW	HW
WATER CLOSET	4"	2"	1"	--
LAVATORY	2"	2"	1/2"	1/2"
SINK	2"	2"	1/2"	1/2"
MOP SINK	3"	2"	1/2"	1/2"
URINAL	2"	2"	3/4"	--

ELECTRIC WATER HEATER

ITEM NO.	KW INPUT	GALS. PER HR. RECOVERY RATE 100°F RISE	STORAGE CAPACITY	POWER (V/PH/HZ)	STORED WATER TEMP.	MANUFACTURER / COMMENTS
EWH-G-1	12.3	61	65	480/3/60	140°F	A.O. SMITH CUSTOM XI SERIES #DSE-65A

DOMESTIC CIRCULATING PUMP

ITEM NO.	DESCRIPTION	TYPE	GPM	HEAD FEET	H.P. MIN.	POWER (V/PH/HZ)	MAX RPM	MANUFACTURER AND MODEL
CP-G-1	CIRCULATION PUMP 140° F HOT WATER SERVES EWH	IN-LINE STAINLESS STEEL	3	7	1/25	120/1/60	2400	GRUNDFOS ALPHA HWR SERIES #15-55SF

NOTES:
1. DOMESTIC CIRCULATING PUMP SHALL BE FACTORY SET TO AUTOADAPT.

DOMESTIC HW EXPANSION TANK

ITEM NO.	DESCRIPTION	MAX. WORK PRESSURE	TANK VOL. GALLONS	MAX. ACCEPT. GALLONS	DIMS. DIA X HT (IN)	MANUFACTURER AND MODEL
ET-G-1	HOT WATER EXPANSION TANK	150 PSI	3.5	2.3	10 X 14	WATTS #DETA-5 SUSPENDED

NOTES:
1. ALL EXPANSION TANKS SHALL BE ASME RATED.
2. ET-G-1 SHALL BE PIPE IN CONJUNCTION WITH EWH-G-1.

PLUMBING GENERAL RENOVATION NOTES:

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.
17. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
18. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN BID TO DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
19. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN

PLUMBING FIXTURE SCHEDULE

TYPE: SK-1 (NON COMPLIANT)
SERVICE: DIGITAL ART G154
DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 22" X 19" X 10-1/8" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK, THREE FAUCET HOLES ON 4" CENTERS. ELKAY #LRAD221910.
FAUCET: CHROME PLATED BRASS DECK MOUNTED, 8" FIXED CENTERS, 8" RIGID/SWING GOOSENECK SPOUT AND 4" VANDAL PROOF WRISTBLADE HANDLES, CERAMIC 1/4-TURN OPERATING CARTRIDGES, 1.5 GPM AERATOR. CHICAGO MODEL #1100-HIE35-317XKAB.
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, BRASS BODY, INTEGRAL CHECK VALVES, VANDAL RESISTANT, LEAD FREE, 3/8" COMPRESSION CONNECTIONS WAX FILLED THERMAL CARTRIDGE AND MOUNTING BRACKET. SYMMONS #8210CK AND #D 3/8" COMPRESSION FITTING TO ALLOW WATER BYPASS FOR HOT AND COLD SUPPLY FAUCET. (108 F)
STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 17 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152.
P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE #8912.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: SK-2 (T.A.S. COMPLIANT)
SERVICE: DIGITAL ART G154, ART G156
DESCRIPTION: LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" #0355.012.
FAUCET: 4" FIXED CENTERS, 4" CHROME PLATED WRIST BLADE HANDLES, QUARTER TURN CERAMIC DISC CARTRIDGES, 5-1/4" RIGID SWING GOOSENECK SPOUT 1.5 GPM AERATOR. CHICAGO MODEL #895-317GN2FCXKABCP
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, BRASS BODY, INTEGRAL CHECK VALVES, VANDAL RESISTANT, LEAD FREE, 3/8" COMPRESSION CONNECTIONS WAX FILLED THERMAL CARTRIDGE AND MOUNTING BRACKET. SYMMONS #8210CK AND #D 3/8" COMPRESSION FITTING TO ALLOW WATER BYPASS FOR HOT AND COLD SUPPLY FAUCET. (108 F)
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH 6" TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE #8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE #520-08.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: SK-3 (NON T.A.S. COMPLIANT) - ART TROUGH SINK
SERVICE: ART G156
DESCRIPTION: 14 GAUGE, TYPE 304 STAINLESS STEEL WALL MOUNTED MULTI-STATION SINK MEASURES 48"X 20"X 8", 10" STAINLESS STEEL BACKSPLASH WITH 2 SETS OF 2-HOLES ON 8" CENTERS, NO DRAINBOARD, 45" X 16"X 8" DEEP COMPARTMENT PROVIDE WITH WALL MOUNTING BRACKET . ELKAY #EWMA48204.
FAUCET: CHROME PLATED BRASS WALL MOUNT FAUCET (2) WITH 5-1/4" RIGID SWING GOOSENECK SPOUT, 1.5 GPM FLOW OUTLET AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGE CHICAGO #WWW-GN2AE35-317AB
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, BRASS BODY, INTEGRAL CHECK VALVES, VANDAL RESISTANT, LEAD FREE, 3/8" COMPRESSION CONNECTIONS WAX FILLED THERMAL CARTRIDGE AND MOUNTING BRACKET. SYMMONS #8210CK AND #D 3/8" COMPRESSION FITTING TO ALLOW WATER BYPASS FOR HOT AND COLD SUPPLY FAUCET. (108 F)
STRAINER: CHROME PLATED BRASS WIDE TOP SINK STRAINER WITH PERFORATED STRAINER, 1-1/2" CHROME PLATED BRASS TAILPIECE. MCGUIRE #152MN.
INTERCEPTOR: A.R.C CAST ALUMINUM SOLIDS INTERCEPTOR WITH TOP ACCESS GASKETED COVER, STAINLESS STEEL MESH LINED BUCKET, 2" FEMALE IRON PIPE INLET AND OUTLET 15 GPM FLOW RATE. WADE #5720-123.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: SK-4 (NON T.A.S. COMPLIANT) - SHOP SCULLERY SINK
SERVICE: ~~SCENE SINK~~
DESCRIPTION: 14 GAUGE, TYPE 304 STAINLESS STEEL STANDALONE MOUNTED MULTI-STATION SINK MEASURES 48" X 24" X 14", 4" STAINLESS STEEL BACKSPLASH WITH SINGLE SET 2 - HOLES ON 4" CENTER, NO DRAINBOARD, 48" X 24"X 14" SINGLE DEEP COMPARTMENT. ADVANCE TABCO #6-41-48D.
FAUCET: ~~MANUAL SINK FAUCET, 8" FIXED CENTERS, 4" GOOSENECK GOOSENECK~~ SPOUT, QUARTER TURN CERAMIC OPERATING CARTRIDGES, 4" WRISTBLADE HANDLES, VANDAL RESISTANT, 1.5 GPM NON-AERATING LAMINAR FLOW OUTLET, SIDE SPRAY HEAD. CHICAGO #200-G8AE36VP-317XKAB.
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, BRASS BODY, INTEGRAL CHECK VALVES, VANDAL RESISTANT, LEAD FREE, 3/8" COMPRESSION CONNECTIONS WAX FILLED THERMAL CARTRIDGE AND MOUNTING BRACKET. SYMMONS #8210CK AND #D 3/8" COMPRESSION FITTING TO ALLOW WATER BYPASS FOR HOT AND COLD SUPPLY FAUCET. (108 F)
STRAINER: CHROME PLATED BRASS WIDE TOP SINK STRAINER WITH PERFORATED STRAINER, 1-1/2" CHROME PLATED BRASS TAILPIECE. MCGUIRE #152MN.
INTERCEPTOR: A.R.C CAST ALUMINUM SOLIDS INTERCEPTOR WITH TOP ACCESS GASKETED COVER, STAINLESS STEEL MESH LINED BUCKET, 2" FEMALE IRON PIPE INLET AND OUTLET 15 GPM FLOW RATE. WADE #5720-123.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: FD-1
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE #1100-MR6-85.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

TYPE: FS-1
SERVICE: ICE MACHINE DRAIN / BACKFLOW PREVENTER DISCHARGE
DESCRIPTION: CAST IRON 8" SQUARE FLOOR SINK WITH 6" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, 1/2 STAINLESS STEEL TOP, CLAMPING DEVICE. WADE #9110-15-26-27-85.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS / EQUIPMENT PLACEMENT.

TYPE: HB-1
DESCRIPTION: HOSE BIBB. EXPOSED TYPE, MILD CLIMATE, WALL-MOUNTED FAUCET WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRASS FINISH WITH REMOVABLE TEE HANDLE. CHICAGO #952-12XKCP.
ROUGH-IN: 3/4" COLD WATER

TYPE: WH-1
DESCRIPTION: WALL HYDRANT IN S.S. BOX, 3/4" NON FREEZE, HALF TURN CERAMIC DISC CARTRIDGE, STAINLESS STEEL FINISH WITH ANTI SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE 8601-MT-175.
ROUGH-IN: 3/4" COLD WATER

TYPE: RH-1
DESCRIPTION: ROOF HYDRANT, DRAIN CANISTER BELOW ROOF LINE,3/4" F/P INLET AND 3/4" OUTLET HOSE. 1" SCHEDULE 40 GALVANIZED RISER AND SELF ADJUSTING SOLID BRASS OPERATING ROD. MAPA PRODUCTS #MPH-24-FP.
ROUGH-IN: 3/4" COLD WATER. INSTALL WITH OUTLET AT 18"AFF OR AS DIRECTED BY ARCHITECT/OWNER.

TYPE: RD-1
DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE #3000-46-52-53 FOR 8" AND SMALLER, WADE #3000L-46-52-53 FOR 10" AND LARGER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: RD-2
DESCRIPTION: OVERFLOW ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, BEARING PAN, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE #3000-D-46-52-53 FOR 8" AND SMALLER, WADE #3000L D-46-52-53 FOR 10" AND LARGER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: DN-1
DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE WITH HINGED COVER. FABRICATED STAINLESS STEEL WITH NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE #3941-VP
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: BFP-1 (2" AND SMALLER)
DESCRIPTION: BACKFLOW PREVENTER, REDUCED PRESSURE ZONE TYPE WITH TWO INLINE INDEPENDENT CHECK VALVES WITH AN INTERMEDIATE RELIEF VALVE. COMPLETE WITH TWO FULL PORTED BALL VALVE SHUT-OFFS AND BALL TYPE TEST COCKS. BRONZE STRAINER ON INLET. REFER TO FLOOR PLANS FOR SIZES. MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE AIR GAP WITH DRAIN PIPE TO NEAREST FLOOR DRAIN. WATTS #909-QT-S.

TYPE: BFP-2 (2 1/2" AND LARGER)
DESCRIPTION: STAINLESS STEEL REDUCED PRESSURE ZONE TYPE WITH TWO INLINE INDEPENDENT CHECK VALVES WITH REVERSE RELIEF VALVES, TWO NON-RISING STEM RESILIENT SEALED GATE VALVES, CAST IRON STRAINER ON INLET. PROVIDE AIR GAP FITTING PIPED FULL SIZE TO NEAREST FLOOR DRAIN. APOLLO #RP94ALF-YS
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE ON DRAWINGS.

TYPE: ECO
DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-Z.

TYPE: FCO
DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.

TYPE: WCO
DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COMBINED COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE 8550 WITH 8480-R6. PROVIDE WADE 8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.

TYPE: TP-1
SERVICE: SERVES SINGLE FLOOR DRAIN TRAP.
DESCRIPTION: FLUSH VALVE TRAP PRIMER, 1-1/2" O.D. X 1/2" 17 GAUGE PRIMING TUBE WITH VACUUM BREAKER. PRECISION PLUMBING PRODUCTS #FVP-1VB.

TYPE: TP-2
SERVICE: SERVES 1 TO 4 FLOOR DRAIN TRAPS, REFER TO PLANS.
DESCRIPTION: ELECTRONIC TRAP PRIMER WITH DISTRIBUTION UNIT AND NEMA 1 BOX. SURFACE MOUNT IN MECHANICAL ROOM OR CUSTODIAL CLOSET. PRECISION PLUMBING PRODUCTS MINI-PRIME #MPB-500-115V WITH DISTRIBUTION UNIT.
ROUGH-IN: 1/2" COLD WATER

TYPE: EDF-1 (T.A.S. COMPLIANT) DRINKING FOUNTAIN WITH BOTTLE FILLER
DESCRIPTION: WALL HUNG, BOTTLE FILLING STATION AND BI-LEVEL VANDAL-RESISTANT COOLER HIGH EFFICIENCY NON-FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50F DRINKING WATER, BASED ON 80F INLET WATER AND 90F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL, GREEN COUNTER, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, SANITARY SENSOR ACTIVATED, VANDAL RESISTANT SMARTFLOW BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT. PROVIDE CANE TOUCH APRON IN ALL STAINLESS STEEL ON ALL UNITS MOUNTED WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. HALSEY TAYLOR #HTHB-HVGRN8BL-NF
P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE #8972.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE #403-BL.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: EFW-1
DESCRIPTION: EMERGENCY HALO STAINLESS STEEL EYE-FACE WASH ASSEMBLY. WALL MOUNTED EYE/FACE WASH INTEGRAL 5.1 GPM FLOW CONTROL (EXCEEDS MINIMUM FLOW OF 3.0 GPM AT 30 PSI), TYPE 304 STAINLESS STEEL PUSH HANDLE AND CORROSION RESISTANT BOWL. FLIP OPEN DUST COVER - OPEN WHEN ACTIVATED, TYPE 316 STAINLESS STEEL SPRAYHEADS. ELECTRO-POLISHED FINISH. BRADLEY #S19224.
TMV: WALL MOUNTED EFX25 THERMOSTATIC MIXING VALVE, INTEGRAL STRAINER STOPS, ADJUSTABLE SET POINT, BUILT-IN COLD WATER BYPASS, POSITIVE HOT WATER SHUT-OFF, DIAL THERMOMETER. BRADLEY #S19-2000.
ROUGH-IN: 1/2" COLD WATER, 1-1/4" WASTE. COORDINATE ROUGH-IN LOCATION/HEIGHT, FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL/CASEWORK DRAWINGS.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

PROVIDE AND INSTALL ACID RESISTANT P-TRAPS ON ALL SCIENCE, BIOLOGY, CHEMISTRY, AND PHYSICS CLASSROOM SINKS.

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Project No: 2024-00207-00

Revision / 1 — Date 11-20-24 — Addendum 02

Project: 2024 CY RANCH HIGH SCHOOL ADDITIONS AND RENOVATIONS FOR CYPRESS-FAIRBANKS ISD 10700 FRY RD, CYPRESS, TX 77433

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PLUMBING FIXTURE SCHEDULES

Job No. 01818-05-01
Drawn By: VU
Date: 11/11/2024
Sheet No. P6.01