Addendum Number 01

March 14, 2025

To Drawings and Specifications dated March 10, 2024

2024 Watkins & Rowe MS and Cy Park HS Renovations
Cypress Fairbanks Independent School District
CFISD Proposal Number: 24-02-5753-R-RFP

Prepared by: PBK Architects, Inc.
11 Greenway Plaza, 22nd Floor
Houston, Texas 77046

PBK Project No's.: 240058/240059

March 14, 2025

Notice to Proposers:

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

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

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

GENERAL ITEMS

Item No. 01: All questions shall be directed to PBK Architects – attention: Juan Noriega at juan.noriega@pbk.com and Sutton Hardt at sutton.hardt@pbk.com.

SPECIFICATIONS

Item No. 02: Section AA Request for Competitive Sealed Proposals
a. Revise section Pre-Proposal Conference: Monday, March 17, 2025 at 10:00AM 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.

Item No. 03: Section 07 42 13 Metal Wall Panels
a. Section added in it its entirety.

Item No. 04: Section 08 71 00 Door Hardware (Rowe MS)
a. Section added in its entirety.

Item No. 05: Section 08 71 00 Door Hardware (Watkins MS)
a. Section added in its entirety.

Item No. 06: Section 08 71 00 Door Hardware (CyPark HS)
a. Section added in its entirety.

Item No. 07: Section 10 51 13 Metal Lockers
a. Replace section 2.3 Locker Types

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a. Type ‘A’ Art Lockers: 12” wide by 12" high by 24" deep, 6 tier, with interior hooks, louvered door, solid back, ends, filler, slope tops, and 4” high CMU base. Color shall be as selected by Architect from manufacturer's full color range.

Item No. 08: Section 12 93 00 Site Furnishings
a. Section added in its entirety.

Item No. 09: Section 23 25 13 - Circulation Water System Chemical Treatment, replace this section in its entirety with attached.

Item No. 10: Section 23 73 13 - Air Handling Units, replace this section in its entirety with attached.

Item No. 11: Section 23 82 18 - Ductless Mini Splits, replace this section in its entirety with attached.

DRAWINGS – (Watkins MS – Volume 1)

Item No. 12 Sheet ASD101 – DEMOLITION ARCHITECURAL SITE PLAN
A. Keynote 02 41 00.S11 removed.

Item No. 13 Sheet AD-201.1 - 1ST FLOOR DEMOLITION CEILING PLAN - ENLARGED AREAS
A. Reception grid changed from demo tiles only to demo tiles and grid.
B. Areas not in contract were updated in detail 4.

Item No. 14 Sheet A-101D – 1ST FLOOR PLAN & SCHEDULES – AREA D
A. Added paint (P4) to the wall finish schedule for the waiting and reception areas.
B. Tagged storefronts that are receiving security film. Re: A-811 for storefront elevations.

Item No. 15 Sheet A-101F – 1ST FLOOR PLAN & SCHEDULES – AREA F
A. 4” Concrete Curb added along the perimeter of the Kiln Rm F1030
B. Added Keynote 04 20 00.CU5

Item No. 16 Sheet A-501 - EXTERIOR ELEVATIONS – ORCHESTRA ADDITION
A. Extents of new roof graphically clarified on Details 26,12, & 06.
B. Detail 18 Orchestra Ext. Elevation: added keynote 32 33 00.BB2 to benches

Item No. 17 Sheet A-711 – WALL SECTION DETAILS
A. Details 02, 03, 08, and 09 were deleted from sheet.

Item No. 18 Sheet 811 - DOORS - WINDOWS PANEL & FRAME TYPES
A. Added storefront elevations that are receiving security film. Re: A-101D for storefront locations.

Item No. 19 Sheet AF100 – FINISH SCHEDULE
A. Included CP4 in the finish schedule

Item No. 20 Sheet AF101 – 1ST FLOOR FINISH PLAN - COMPOSITE
A. Added CP4 to the finish floor legend and applied it to the waiting and reception areas.

Item No. 21 E-301F – ELECTRICAL POWER 1ST FLOOR PLAN – AREA F
A. Revise power layout in Manufacturing Classroom-1 F1026-1.

Item No. 22 E-502 – ELECTRICAL PANEL SCHEDULE
A. Replace CKT 10 and CKT 12 with spare 20A breaker.

Item No. 23 T-002 – TECHNOLOGY DEMOLITION FLOOR PLAN – LEVEL 1 – AREA E
A. Orchestra E1020, update motion detectors to existing be demolished.

Item No. 24 T-204 – TECHNOLOGY FLOOR PLAN – LEVEL 1 – AREA E
A. No longer showing existing motion detectors in Orchestra E1020.

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Item No. 25 T-205 – TECHNOLOGY FLOOR PLAN – LEVEL 1 – AREA F
A. Add intercom speaker to Storage F1029.
B. Adjust D2 outlet elevation in Manufacturing classroom F1026.
C. Relocate D1 outlet in Mechanical F1027 to BMCS location.
D. Adjust door contact location on door F1052.

DRAWINGS – (Cy-Park HS – Volume 2)

Item No. 26 Sheet AS-401 - ENLARGED SITE PLAN
A. Added note to provide flashing between new canopy and existing adjacent wall at 04/AS-401.
B. Added note for GC to coordinate canopy end cap and flashing between new and existing aluminum canopy system at 04/AS-401.

Item No. 27 Sheet AD101D - 1ST FLOOR DEMOLITION PLAN - AREA D
A. Added keynote 02 41 00.S15 “Salvage existing computer station, uninstall, preserve, store, and protect for reinstallation at new location. Re: Plan for new location.

Item No. 28 Sheet A-101A - 1ST FLOOR PLAN & SCHEDULES - AREA A
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 29 Sheet A-101B – 1ST FLOOR PLAN & SCHEDULES – AREA B
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 30 Sheet A-101C – 1ST FLOOR PLAN & SCHEDULES – AREA C
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 31 Sheet A-101D – 1ST FLOOR PLAN & SCHEDULES – AREA D
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 32 Sheet A-101E – 1ST FLOOR PLAN & SCHEDULES – AREA E
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 33 Sheet A-101N – 1ST FLOOR PLAN & SCHEDULES – AREA N
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 34 Sheet A-101P – 1ST FLOOR PLAN & SCHEDULES – AREA P
A. Tagged storefront that is receiving security film. Re: A-811 for storefront elevation

Item No. 35 Sheet A-501 – EXTERIOR ELEVATIONS – COMPOSITE & ENLARGED
A. Updated Existing/New Construction tags that were conflicting at 30/A-501.

Item No. 36 Sheet A-521 – INTERIOR ELEVATIONS
A. Added sill height dimension for marker board at 22/A-521
B. Updated 28/A-521, 30/A-521 to have STRUCTURAL GLAZED TILE "QUICKBASE".

Item No. 37 Sheet A-801 – PARTITION TYPES - CMU & MTL STUD
A. Added partition type M4.C to 01/A-801.

Item No. 38 Sheet A-811 - DOORS & WINDOWS - PANEL / FRAME TYPES & DETAILS
A. Added storefront elevation that is receiving security film. Re: A-101P for storefront location

Item No. 39 Sheet A-823 – WINDOWS & STOREFRONT ELEVATIONS
A. Added sheet in its entirety.

Item No. 40 Sheet AF101.1 – 1ST LEVEL – FINISH FLOOR PLAN – ENLARGED AREAS
A. Detail 24/AF101.1 – Provide finish CP1 at locations indicated at Area A, Reception/Waiting.

Item No. 41 Sheet A-841 – CASEWORK ELEVATIONS & DETAILS

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A. Detail 8 Art- North Elevation, revised locker count and width.

Item No. 42 M111A - MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA A
A. Relocate existing supply diffuser.
B. Add keynote #3 and #4.

Item No. 43 M211A - MECHANICAL FLOOR PLAN - LEVEL 1 - AREA A
A. Reception a1303, Relocate existing supply diffuser.
B. Add keynote #2.

Item No. 44 M211D - MECHANICAL FLOOR PLAN - LEVEL 1 - AREA D
A. Art D1103, Relocate EF-75.

Item No. 45 2/M211L - MECHANICAL FLOOR PLAN - LEVEL 1 - AREA L
A. Mechanical L1372, add smoke detectors.

Item No. 46 2/M212C - MECHANICAL FLOOR PLAN - LEVEL 2 - AREA C
A. Revise keynote #1.
B. Corr C1292, revise supply diffuser CFM.

Item No. 47 M213 - MECHANICAL FLOOR PLAN - CENTRAL PLANT OFFICE
A. Relocate DMSCU-1.
B. Revise keynote #2.
C. Add keynote #7.

Item No. 48 M401 - MECHANICAL DETAILS, AND LEGENDS
A. Revise detail #4.
B. Revise detail #5.
C. Revise duct liner and insulation detail.

Item No. 49 M402 - MECHANICAL DETAILS, AND LEGENDS
A. Add new sheet for details.

Item No. 50 M501 - MECHANICAL SCHEDULES
A. Revise grille schedule.
B. Revise fan schedule.

DRAWINGS – (Rowe MS – Volume 3)

Item No. 51 Sheet A-101A - 1ST FLOOR PLAN & SCHEDULES - AREA A
A. Tagged storefronts that are receiving security film. Re: A-823 for storefront elevations

Item No. 52 Sheet A-101B - 1ST FLOOR PLAN & SCHEDULES - AREA B
A. Tagged storefront that are receiving security film. Re: A-823 for storefront elevations

Item No. 53 Sheet A-101C - 1ST FLOOR PLAN & SCHEDULES - AREA C
A. Tagged storefront that are receiving security film. Re: A-823 for storefront elevations

Item No. 54 Sheet A-101D - 1ST FLOOR PLAN & SCHEDULES - AREA D
A. Tagged storefront that are receiving security film. Re: A-823 for storefront elevations

Item No. 55 Sheet A-101H - 1ST FLOOR PLAN & SCHEDULES - AREA H
A. Tagged storefront that are receiving security film. Re: A-823 for storefront elevations

Item No. 56 Sheet A-823 - WINDOWS & STOREFRONT ELEVATIONS
A. Added sheet in its entirety.

Item No. 57 E-100 – ELECTRICAL COMPOSITE FLOOR PLAN

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A. Add existing panel HB, existing XFMR TLB and existing panel LB.

Item No. 58 E-101 – ELECTRICAL SITE PLAN
A. Add conduit run for ne Storage Building

Item No. 59 E-301 – ELECTRICAL POWER PLANS
A. Revise power layout in Storage Building.

Item No. 60 E-301 – DETAILS AND SCHEDULES
A. Add Existing Panel HB schedule and New Panel LFS Schedule.

Item No. 61 E-401 – ELECTRICAL ONE-LINE DIAGRAM.

Item No. 62 M202 - MECHANICAL FLOOR PLAN - LEVEL 1 - STORAGE BUILDING
A. Add exhaust and intake to storage building.

Item No. 63 M301 - MECHANICAL DETAILS, LEGENDS, AND SCHEDULE
A. Add fan schedule.
B. Add grille schedule.

Item No. 64 T-100 – TECHNOLOGY COMPOSITE FLOOR PLAN – LEVEL 1
A. Provide technology/security design for athletic storage building.
B. Indicate door contacts on man door and overhead door of athletic storage building.
C. Provide conduit size, pathway and instructions from existing middle school to new athletic storage building.

END OF ADDENDUM NO. 01

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SECTION 07 42 10 - METAL WALL PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes: Requirements including but not limited to:
   1. Concealed fastened metal wall panels as part of the assembly.
   2. Accessories necessary for a complete installation.

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, licensed in the State of Texas with experience in the design of metal composite wall panels as part of curtainwalls and aluminum storefront systems to design and coordinate the cladding assembly using performance requirements and design criteria indicated.

1.4 SYSTEM REQUIREMENTS

A. Modular Metal Panel System: Rainscreen design consisting of dry seal joinery designed, attachment system components, and associated necessary to minimize water penetration and induce air circulation in the space behind the panel system. Moisture weeping trim at panel base details allows water to drain out of the system.

1.5 SUBMITTALS

A. Product Data: Technical data including construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

B. Shop Drawings: Provide shop drawings prepared by manufacturer or manufacturer's authorized dealer. Include full elevations showing openings and penetrations. Include details of each condition of installation and attachment. Provide details at a minimum scale 3-inch per foot of all required trim and extrusions needed for a complete installation.
   1. Include data indicating compliance with performance requirements.
   2. Indicate points of supporting structure that must coordinate with modular metal panel system installation.

C. Samples:
   1. One (1) ft long sample of each listed panel, including clips (if applicable) & fasteners
   2. Minimum 2" x 4" chip of specified finish.

D. Qualification Information: For Installer and Installer's field supervisor.

E. Warranty: Manufacturer's sample warranty as specified.

1.6 DELIVERY AND STORAGE

A. All panels shall be delivered with appropriate packaging to provide protection against transportation damage. Materials damaged in shipping or storage shall not be used.

B. Store all materials and accessories above ground on well-skidded platforms. Store under waterproof covering. Provide proper ventilation to panels to prevent condensation build-up between panels.

1.7 COORDINATION

A. Coordinate work with installation of associated metal flashings and manufactured roof panels.

B. General contractor shall coordinate with all subcontractors including masonry, waterproofing membrane, sheathing work, and framing to ensure walls are plumb and ready to accept fasteners and panel systems.

C. Pre-construction meeting required with owner and architect. Representatives from all associated trades shall attend to coordinate arrival, delivery, and installation of products and materials.

1.8 WARRANTY

A. Warrant the work specified herein for five (5) years against becoming unserviceable or causing an objectionable appearance resulting from either defective or non-conforming materials or workmanship.

B. Provide a manufacturer's twenty (20) year finish integrity warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Manufacturer: Berridge Manufacturing Company. Other manufacturers may bid this project provided they comply with all requirements of this specification. Product listed is considered basis of design and owner shall not be responsible for any costs resulting from change of manufacturer including sizes, trim pieces, structural, or system components. Manufacturers listed below who produce equivalent products to those specified are approved for use on the Project. Other manufacturers must have a minimum of ten (10) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 1 requirements regarding substitutions to be considered.
   1. Alucoil North America LLC.
   2. CENTRIA Architectural Systems.
   3. Citadel Architectural Systems, Inc.

2.2 MATERIALS

A. Metal Wall Panel **(MP-1)**:
   1. Materials:
      a. Prefinished Sheet Material: 24 gauge thick Galvalume® steel sheet, minimum yield 50,000 PSI, roll formed in continuous lengths, ASTM A792.
      b. Finish: Kynar 500 or Hylar 5000 Fluoropolymer coating, applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.70 to 0.90 mil over 0.25 to 0.35 mil prime coat, to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500 or Hylar 5000 finish supplier. Color shall be as selected by Architect from manufacturer's available colors. Interior surface finish shall be manufacturer's full range of colors.
      c. Touch-up Paint: Paint burns, scars, welds, and damaged and rusted surfaces with cold galvanizing paint in accordance with ASTM A780. Acceptable Products include ZRC Cold Galvanizing Compound or Galvilite manufactured by ZRC

Worldwide, Marshfield, MA; Galvax Zinc-rich Cold Galvanizing Coating manufactured by Alvin Products, Inc., Lawerence, MA; or paint complying with military specification MILP-21035A, Type I or II.

d. Strippable Film: Shall be applied to the top side of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film must be removed before installation.

e. Accessories:
   1) Sealant: As specified in Section 07 92 00.
   2) Cold Formed Metal Framing: As specified in Section 05 40 00.
   3) Girts, Sub-girts, purlins: 16 gauge minimum thickness (55,000 psi minimum yield thickness) galvanized steel, with Stainless Steel screws to meet application.
   4) Fasteners: long-life, corrosion resistant screws supplied or instructed by panel manufacturer to suit application spaced according to UL requirements, color matched to match metal panel color.
   5) Clips, miscellaneous fasteners: galvanized steel as supplied or instructed by panel manufacturer.
   6) Metal Trim, closures, and flashing: Exposed adjacent flashing shall be the same material and finish as panel system.
   7) Separate dissimilar metals with asphalt-saturated building felt or a bituminous coating to prevent galvanic action.
   8) Dampproofing: refer to section 07 11 00.

2. Profile/Dimensions: 7/8 inch thick panel 16 inch coverage width, in continuous length up to 40 feet-0 inches, with interlocking design with concealed fasteners.
3. Approved Product/Manufacturer: 'HR-16' Panel manufactured by Berridge Manufacturing Co., Houston, TX; (800) 231-8127, or Architect approved equal.

C. All Cold-Formed Metal Framing for Metal Wall Panels to be designed by a Texas Licensed Profession Engineer per spec. Section 05 40 00, Professional Engineer

E. Accessories:
1. Zees: 16 gauge minimum thickness galvanized steel, 2 inch rise minimum, or as required to align with existing conditions.
2. Sub-Girt Fasteners: Stainless Steel screws to meet application.
3. Concealed Fasteners: Stainless Steel screws supplied or recommended by panel manufacturer to suit application.
4. Metal Trim at Siding Panels: 0.060 inch thick pre-finished aluminum sheet, matching finish type and color of siding panels.
5. Closures: 0.060 inch thick aluminum sheet, mill finish.
6. Separate dissimilar metals with asphalt-saturated building felt or a bituminous coating to prevent galvanic action.
7. Air Barrier: High temperature air barrier. Re: 07 26 00.
8. Polyisocynurate: Shall comply with NFPA 285 & ASTM G 2357 & ASTM E 331. Thickness shall be 2-inch.
9. Access Panels: Refer to 08 31 13 Specification.

PART 3 - EXECUTION

3.1 EXAMINATION OF MODULAR METAL PANEL SYSTEM

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal composite material panel supports, and other conditions affecting performance of the Work.

1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal composite material wall panel manufacturer.
2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal composite material wall panel manufacturer.
    a. Verify that air or water resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing in for components and assemblies penetrating metal composite material panels to verify actual locations of penetrations relative to seam locations of metal composite material panels before installation.

C. Proceed with installation after correcting unsatisfactory conditions.

3.2 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal composite material panel as required by manufacturer's written recommendations.

3.3 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal composite material wall panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m), nonaccumulative, on level, plumb, and location lines as indicated, and within 1/8 inch (3 mm) offset of adjoining faces and of alignment of matching profiles.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing agency to perform field tests and inspections.

B. Water Spray Test: After installation, test area of assembly directed by Architect for water penetration according to AAMA 501.2.

C. Manufacturer Field Service: Engage a factory authorized service representative to test and inspect completed metal composite material wall panel installation, including accessories.

D. Metal composite material wall panels are considered defective if they do not pass test and inspections.

E. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.

F. Prepare test and inspection reports.

3.5 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films as metal composite material panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal composite material panel installation, clean finished surfaces as recommended by metal composite material panel manufacturer. Maintain in a clean condition during construction.

B. After metal composite material panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

C. Replace metal composite material panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07 42 10

SECTION 087100 – DOOR HARDWARE

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
4. Temporary (green) core keys: **1 key per lockset**

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 02/20/2025 Owner Notes
****At existing doors / frames, all conditions must be field verified prior to order.**
At aluminum frames, gasket is by frame manufacturer.
****Confirm EPT v/s door loop at all access control locations.**
****Confirm all fire ratings and provide compliant hardware.**

Set: 1.0
Description: Not Used

1	Set	Not Used		OT

Set: 2.0
Doors: H101A, H105A, H105C
Description: Add Exit Device-8816 RHR, 704 ETL 462

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
1	Exit Device Trim	70 704ETL	US26D	SA
3	Interchangeable Core	I/CK-7	626	BE
3	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	Balance of hardware	Existing to remain		OT

Notes: If openings are fire rated, add 12-. 704 at LHR

Set: 3.0
Doors: H101B, H101C
Description: Add Exit Device-8816 RHR, 704 ETL LHR

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
1	Exit Device Trim	70 704ETL	US26D	SA
3	Interchangeable Core	I/CK-7	626	BE
3	Const. Core	7190224	Green	BE
1	Balance of hardware	Existing to remain		OT

Notes: If openings are fire rated, add 12-

Set: 4.0
Doors: A131C, A131D, H105B
Description: Add SN200 Exit, 8810, EPT

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	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
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. 8810 at LHR. If openings are fire rated, add 12-

Set: 5.0
Doors: E102A, E102B, G121B, G124B
Description: Add SN200 LT 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	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
2	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT
2	Viewer	622 x door thickness	DCRM	RO

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. If openings are fire rated, add 12-

Set: 5.1
Doors: E122B, R101E
Description: Add SN200 LT EPT

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	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
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
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. If openings are fire rated, add 12-

Set: 6.0
Doors: A101A, A101B, A102C, H109B
Description: Add 8810 LT

1	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
1	Balance of hardware	Existing to remain		OT

Notes: If openings are fire rated, add 12-

Set: 7.0
Doors: E101A

Description: Add 8810 LT - 462

1	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
2	Door Stop	462	US2C	RO
1	Balance of hardware	Existing to remain		OT

Notes: If openings are fire rated, add 12-

Set: 8.0
Doors: B102, C102, D102, E101B, E110, E121, G101
Description: Add 8810 LT - 462 Reader to remain

1	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
2	Door Stop	462	US2C	RO
1	H1 Reader	Existing to remain		
1	Balance of hardware	Existing to remain		OT

Notes: 8810 replace at LHR. If openings are fire rated, add 12-

Set: 9.0
Doors: A102D, B101A, C101A, D101A
Description: Add 8810 LT - Reader to remain

1	Rim Exit EO x SPAR#NC-E11	19 LD TB 43 8810	US32D	SA
1	H1 Reader	Existing to remain		
1	Balance of hardware	Existing to remain		OT

Notes: 8810 replace at LHR. If openings are fire rated, add 12-

Set: 10.0
Doors: F104B
Description: Add Sgl SN200 Exit - Loop - 462 - Peep

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	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
1	Balance of hardware	Existing to remain		OT
2	Viewer	622 x door thickness	DCRM	RO
1	Card 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. If openings are fire rated, add 12-

Set: 11.0
Doors: F109
Description: 9500 ES - 2N

1	Electric Strike	9500	630	HS	
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	Balance of hardware	Existing to remain		OT	
1	Access Control	2N Station		OT	

Notes: Include 2N Station

Set: 12.0
Doors: A132A
Description: Add HO Closer

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

Notes: Add hold open closer arm to non-rated doors only.

Set: 13.0
Doors: G102, G110, G111, G119
Description: Add PSH closer arm

1	Parallel Hold Open Arm	25-PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Notes: Add hold open closer arm to non-rated doors only.

Set: 14.0
Doors: F108B
Description: Add 2ea 462

2	Door Stop	462	US2C	RO
1	Balance of hardware	Existing to remain		OT

Set: 15.0
Doors: A127
Description: Existing - Add 8238

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

Set: 16.0
Doors: A103, A107, A108, A109, A111, A113, A114, A119A, A119C, A120, A121, A123, A125, B215, B215A, B216, B217, B308, B316, B317, B318, B319
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	Balance of hardware	Existing to remain		OT

Set: 16.1
Doors: A105A
Description: **Sgl - ASF SN200 Lock Closer

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: 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: 17.0
Doors: A102B
Description: No work

1	All hardware	Existing to remain	OT

Set: 18.0
Doors: S108
Description: Existing add 351 parallel hold open closer, armor plate

1	Surface Closer	TB 351 PSH	EN	SA
1	Armor Plate	K1050 36" CSK BEV	US32D	RO
1	Balance of hardware	Existing to remain		OT
1	Keedex Lock Protector	K12S - SGT		OT

Set: 19.0

Doors: Stops

Description: To be used as needed during installation

20	Door Stop	481H	US26D	RO

Set: Attic

Doors: MISC

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	Interchangeable Core	I/CK-7	626	BE
12	Regular Hold Open Arm	25-H	EN	SA
12	Parallel Hold Open Arm	25-PSH	EN	SA
4	SN200 Reader	52 6027 (Exit/Lock)		OT

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.

END OF SECTION 087100

SECTION 087100 – DOOR HARDWARE

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
4. Temporary (green) core keys: **1 key per lockset**

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

Set: 1.0

Doors: A1002, F1028, G1032
Description: Existing add SN200 8504 and 8510 exit

1	Electric Power Transfer	EL-EPT		SU
1	Rim Exit Device, Storeroom	LD 19 TB 43 56 70 SN200 8504 Less Trim	US32D	SA
1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	7500 TBGN	689	NO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 2.0

Doors: D1012A
Description: Existing add 8504 and 8510 exits

1	Rim Exit Device, Storeroom	LD 19 TB 43 70 8504 Less Trim	US32D	SA
1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 3.0

Doors: D143, D158, D160A, D160B, D258, D260A, G308A
Description: Existing add 8204 and 7500

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	7500 TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 4.0

Doors: A700
Description: Existing add 8804 and 8810 PSB

1	Rim Exit Device, Storeroom	LD 19 TB 43 70 8804 PSB	US32D	SA
1	Rim Exit Device, Dummy	LD 19 TB 43 8810 PSB	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	7500 TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 5.0

Doors: A1000, D1013B
Description: Existing add SN200 exit, 7500 closer and loop

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	7500 TBGN	689	NO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 6.0

Doors: D1014
Description: Existing add SN200 exit, 7500 closer and EPT

1	Electric Power Transfer	EL-EPT		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	7500 TBGN	689	NO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 7.0

Doors: D1015, D1018

Description: Existing add SN200 8500 exit, closer, threshold, loop

1	Rim Exit Device, Storeroom	LD 19 TB 43 56 70 SN200 8504 Less Trim	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
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
1	Door Loop	DL-2		AK
1	Balance of hardware	Existing to remain		OT

Set: 8.0

Doors: E1021A

Description: Existing add 8510 exit, closer, threshold

1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	Surface Closer	7500 TBGN	689	NO
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	Balance of hardware	Existing to remain		OT

Set: 9.0

Doors: E1021B

Description: Existing add 8510 exit

1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 10.0

Doors: F1025B.
Description: Existing add SN200 FSW exit, closer, loop, gasketing

1	Rim Exit Device, Storeroom	19 TB 43 56 70 SN200 8804 FSW	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
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
2	Viewer	622	CRM	RO
1	All hardware	Existing to remain		OT

Set: 11.0

Doors: D1013A, D107B, D109A, D251B, D259B, DS233, DS234A
Description: Existing add 8816 exit, closer, floor stop

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 12.0

Doors: CS230C, CS231B, D107A, D109B, D159A, D163A, B175B
Description: Existing add 8804 and 7500

1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 13.0

Doors: E1048
Description: New 8204 pair

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	Surface Closer	7500 TBGN	689	NO
2	Door Stop	481H	US26D	RO
2	Silencer	608		RO

Set: 14.0

Doors: A187A, B175B, E1020B
Description: Existing add 8816 and 7500

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 15.0

Doors: G300K
Description: Existing add 8804 and 7500, door viewers

2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 16.0

Doors: C1010
Description: Existing add 8510 exit and mounting insert @ RHR leaf

1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	68-1375	Mounting Rail Insert		SA
1	Balance of hardware	Existing to remain		OT

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

Set: 17.0

Doors: D1012B
Description: Existing add SN200 8500 exit and 8510 exit, new 2N station

1	Rim Exit Device, Storeroom	LD 19 TB 43 56 70 8504 Less Trim	US32D	SA

1	Rim Exit Device, Exit Only	19 TB 43 8510 EO	US32D	SA
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Add 2N station

Set: 18.0

Doors: G302
Description: Existing add 8804 less trim and 7500

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Notes: bondo and paint at existing holes

Set: 19.0

Doors: G300
Description: Existing add 8816 and 7500, door viewers

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 20.0

Doors: D259C, D261A, DS234B
Description: Existing add 8804, closer and floor stop

1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 21.0

Doors: D207A, D207B
Description: Existing add 8816 exit, closer, floor stop, trim

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
1	Exit Device Trim	70 704-ETL	US26D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
2	Surface Closer	7500H TBGN	689	NO
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 22.0

Doors: CS230B, CS231A, F1024A, F1025A
Description: Existing add 8816 exit and closer

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 22.1

Doors: G1034A
Description: Existing add 8816 exit and closer

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 23.0

Doors: F316A, G316B
Description: Existing add 8816 closer, 70-704 exit trim

1	Rim Exit Device	LD 19 TB 43 49 8816 ETL	US32D	SA
1	Exit Device Trim	70 704-ETL	US26D	SA

1	Mortise Cylinder	70 42	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
2	Surface Closer	7500H TBGN	689	NO
3	Const. Core	7190224	Green	BE

Notes: 8816 exit and 70-704 trim at LHR leaf only.

Set: 24.0

Doors: G1034B
Description: Existing add SN200 8804 FSW, closer, loop, door viewers

1	Rim Exit Device, Storeroom	19 TB 43 56 70 SN200 8804 FSW	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 25.0

Doors: F103
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	Balance of hardware	Existing to remain		OT

Set: 26.0

Doors: F354C, F354D
Description: Existing add 8204 and 7500

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	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 27.0

Doors: CA1, CA14, CA15, CA16, CA17, CA18, CA19, CA2, CA20, CA3, CA4, CA5, D111, DA10, DA122, DA13B, DA9

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	Balance of hardware	Existing to remain		OT

Set: 28.0

Doors: CA22, G308B

Description: Existing add 8205 w/ 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	All hardware	Existing to remain		OT

Set: 29.0

Doors: CA21

Description: Existing 8205 and HO closer

1	Office/Entry Lock	70 8205 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 30.0

Doors: E224, E225

Description: New 8215 STC

1	Gasket, threshold, door bottom	By the STC door manufacturer		OT
3	Hinges	By the STC door manufacturer		OT
1	Passage Latch	8215 LL	US26D	SA
1	Door Stop	462	US2C	RO

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.

Set: 31.0

Doors: D258A

Description: Existing add 8250 and closer

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	Surface Closer	7500 TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 32.0

Doors: .F354E, A189B, C101A, C103, C104, C105, C106, C107, C151, C152, C153, C154, C155, C200, C201, C202, C203B, C204, C205B, C251, C252, C253, C254, C255, D110, D141, DA36, E112, E113, E114, E115, E116, E117, E118, E119, E167, E168, E169, E170, E171, E173, E210, E211, E212, E213, E214, E215, E263, E264, E265, E266, E267, E268, G306, G307, G308, G310A, G312A, G314, G1031B

Description: Existing add 8238 and 7500

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	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 33.0

Doors: F1029A, F1042

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	Balance of hardware	Existing to remain		OT

Set: 34.0

Doors: C100, C147, E144, E261
Description: Existing add HO closer pair of doors

2	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

Set: 35.0

Doors: A187B
Description: New 8816 exit

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Kick Plate	K1050 10" CSK BEV	US32D	RO
3	Silencer	608		RO

Set: 36.0

Doors: B175A, D159B, D163B
Description: **Pr Ext - ASF - Exit Device- SN200/DT - KR Mullion - Closer w/Stop Arm -Access Control

2	Stabilizer	ST989	Dull Black	PR
1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	7500H TBGN	689	NO
1	Balance of hardware	Existing to remain		OT

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 aluminum door manufacturer.

Set: 37.0

Doors: F1030. F1029
Description: New storeroom lock w/ closer

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	Surface Closer	7500 TBGN	689	NO
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 38.0

Doors: .D208B
Description: New 82271 lock

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Electric Power Transfer	EL-EPT		SU
1	Access Control Mort Lock	70 SN200-82271-24V LNL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
1	Door Stop	481H	US26D	RO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Power Supply	Provided by security		SU

Set: 39.0

Doors: E127
Description: New storeroom lock w/ closer pair of doors

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
1	Surface Closer	7500 TBGN	689	NO
2	Door Stop	481H	US26D	RO
2	Silencer	608		RO

Set: 39.1

Doors: A189C
Description: New 8804 pair w/ mullion

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE

1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
2	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA
3	Interchangeable Core	I/CK-7	626	BE
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA
3	Const. Core	7190224	Green	BE
2	Surface Closer	7500 TBGN	689	NO
2	Door Stop	481H	US26D	RO
2	Silencer	608		RO

Set: 40.0

Doors: A1006

Description: New SN200 exit w/ 826 trim, loop

1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
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	7500 TBGN	689	NO
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	18061CNB 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
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
2	Viewer	622	CRM	RO

Set: 41.0

Doors: A187D

Description: New push/pull

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Push Plate	70E	US32D	RO
1	Pull Plate	111x70C	US32D	RO

1	Surface Closer	7500 TBGN	689	NO
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 42.0

Doors: B191A, B191B

Description: New 8804 and 8816 exits, keyed mullion

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Mullion	KR822 (FLK as req)	600	PR
1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA
1	Mortise Cylinder	70 42	US32D	SA
4	Interchangeable Core	I/CK-7	626	BE
4	Const. Core	7190224	Green	BE
2	Surface Closer	7500 TBGN	689	NO
2	Door Stop	481H	US26D	RO
2	Silencer	608		RO

Set: 43.0

Doors: F1024B.

Description: New 2N station, 56-8804 FSW exit

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit Device, Storeroom	19 TB 43 56 70 8804 FSW	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	7500 TBGN	689	NO
1	Armor Plate	K1050 36" CSK BEV	US32D	RO
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Door Loop	DL-2		AK
1	Filler Plate	SFASA		RO
1	Exit Device Strike Plate	648		SA

Notes: New 2N station

Set: 44.0

Doors: F1022B
Description: New 2N station, 56-8804 w/ 826 trim

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit Device, Storeroom	LD 19 TB 43 56 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	Surface Closer	7500H TBGN	689	NO
1	Armor Plate	K1050 36" CSK BEV	US32D	RO
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO
1	Keedex Lock Protector	K12S - SGT		OT

Notes: New 2N station

Set: 45.0

Doors: F110
Description: New storeroom lock w/ closer, armor plate

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	7500H TBGN	689	NO
1	Armor Plate	K1050 36" CSK BEV	US32D	RO
1	Door Stop	462	US2C	RO
3	Silencer	608		RO
2	Viewer	622	CRM	RO

Set: 46.0

Doors: E1020A, G1033
Description: New SN200 8804 FSW exterior exit

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit Device, Storeroom	19 TB 43 56 70 SN200 8804 FSW	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	7500 TBGN	689	NO
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO

Set: 47.0

Doors: F311DA., F311DB.
Description: New office lock w/ closer

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	Surface Closer	7500 TBGN	689	NO
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 48.0

Doors: MISC
Description: **Attic Stock - EVERY CAMPUS

1	Hydraulic Gate Closer & Hinge	MAMMOTH-180-HD	9005	OT
5	Quick Fix Bolts	MAMMOTH-P00006000		OT
10	Classroom Security Intruder Lock Body	8238	US26D	SA

2	SN200 Mort Lock body	SN200-82271	US26D	SA
50	Interchangeable Core	I/CK-7	626	BE
50	Key Blanks	Best "A" Keyway		BE
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

Set: 49.0

Doors: F1052.

Description: New exterior 8204 pair

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
2	Surface Bolt	580-12	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	Surface Closer	7500 TBGN	689	NO
2	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
2	Sweep	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE

Set: 50.0

Doors: Stops

Description: To be used as needed during installation

20	Door Stop	481H	US26D	RO

SECTION 087100 – DOOR HARDWARE

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
4. Temporary (green) core keys: **1 key per lockset**

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

Cy Park

Hardware Sets

Set: 1.0

Doors: C1139, F1101A, K1101B, M1115A

Description: Existing Add 8810 exit

1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 1.1

Doors: N1100B, N1100C
Description: No work

Notes: Keep existing H1 reader.

Set: 2.0

Doors: L1120B, L1140A, L1140B, L1144B, L1144D, M1133B
Description: Existing Add 8804 and 8816 exits, parallel HO closers

1	Rim Exit Device, Storeroom	LD 19 TB 43 70 8804 ETL	US32D	SA
1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
3	Interchangeable Core	I/CK-7	626	BE
3	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 3.0

Doors: C1101C, C1104B, C1110B, C1111B, D1121B, D1145B, L1100B
Description: Existing 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	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
2	Viewer	622	CRM	RO
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: 3.1

Doors: N1100A, P1114

Description: Existing 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	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

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: 4.0

Doors: K1100A, M1100B, M1129A

Description: Existing 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	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
2	Viewer	622	CRM	RO
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: 5.0

Doors: B1153A, C1137B, D1115, D1139B, D1146A, E1100A, E1100B, E1105A, G1102C, G1102D, G1103A, H1115A, H1126A, H1143A, L1150A, L1150C, P1121

Description: Existing Add SN200 and 8810 exit

1	Electric Power Transfer	EL-EPT		SU
1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
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	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 5.1

Doors: J1130B, L1111A

Description: Existing Add SN200 and 8810 exit. Loop

2	Electric Power Transfer	EL-EPT		SU
1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
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	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO
1	Balance of hardware	Existing to remain		OT

Set: 6.0

Doors: G1102A, G1102B

Description: Existing Add SN200 and 8810 exit. Loop

1	Electric Power Transfer	EL-EPT		SU
1	Rim Exit Device, Exit Only	19 TB 43 8810 EO	US32D	SA
1	Rim Exit Device	19 TB 43 70 56-SN200-8804	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	ElectroLynx Harness	QC-C1500P		MK

1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 7.0

Doors: L1150B

Description: Existing Add SN200 and 8810 exit. Loop

1	Electric Power Transfer	EL-EPT		SU
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Rim Exit Device, Exit Only	19 TB 43 8810 EO	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 8.0

Doors: F1110A, F1117A, K1127B

Description: Existing Add SN200 exit, loop, sweep and threshold

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	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Door Loop	DL-2		AK
2	Viewer	622	CRM	RO

Set: 9.0

Doors: F1101B

Description: Existing Add SN200 and 8810 exit, new mullion

1	Electric Power Transfer	EL-EPT		SU
1	Mullion	822 (FL as req)	600	PR

1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
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	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 10.0

Doors: G1103B

Description: Existing Add SN200 and 8810 exit, keyed mullion

1	Electric Power Transfer	EL-EPT		SU
1	Mullion	KR822 (FLK as req)	600	PR
1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Balance of hardware	Existing to remain		OT

Set: 11.0

Doors: J1130A

Description: Existing add SN200 and 8810 exit, loop, threshold

1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
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	Threshold	2005AT MSES25SS X Opening Width		PE
1	Door Loop	DL-2		AK
1	Balance of hardware	Existing to remain		OT

Set: 12.0

Doors: A1100A

Description: Existing Add 2N station

1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Balance of hardware	Existing to remain		OT

Notes: Add 2N station

Set: 13.0

Doors: A1100B., K1101A, M1115B

Description: Existing Add 8804 and 8810 exit less trim

1	Rim Exit Device, Exit Only	LD 19 TB 43 8810 EO	US32D	SA
1	Rim Exit Device, Storeroom	LD 19 TB 43 70 8804 Less Pull	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Balance of hardware	Existing to remain		OT

Set: 14.0

Doors: A1113, A1131

Description: Existing add 8204 LL

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

Set: 15.0

Doors: A1149, C1128

Description: Existing Add 8204 w/ Dummy Cylinder

1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Cylinder	Dummy Cylinder	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 16.0

Doors: H1119

Description: Existing Add 8204 and parallel HO closer

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 PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 17.0

Doors: A1124, A1162, C1128A, J1111A

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	Balance of hardware	Existing to remain		OT

Set: 18.0

Doors: B2116, B3116, C3116, D2117, D3117

Description: Existing add 8238 and 351 closer w/ parallel HO arm

1	Classroom Security Escutcheon Kit	IS V01 8238 VN1L LH	US26D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 19.0

Doors: .A3102A, .A3102B, .C1111A, .H1106A, .H1106B, A1155, A1163, A2101A, A2101B, A2105A, A2105B, A3101A, A3101B, A3103A, A3103B, A3105A, A3105B, B1110A, B1115A, B1116, B1126, B1127, B1140, B1141, B1145A, B1145B, B1151A, B1151B, B2100A, B2100B, B2101A, B2101B, B2106A, B2106B, B3100A, B3100B, B3103A, B3103B, B3105A, B3105B, B3106A, B3106B, C1100A, C1101A, C1110A, C1113, C1124, C1125A, C1126A, C1126B, C1130A, C1130B, C1131A, C1131B, C1132A, C1132B, C2100B, C2100C, C2101A, C2101B, C2105A, C2105B, C2106B, C3100B, C3100C, C3103A, C3103B, C3105A, C3105B, C3106A, C3106B, D1103, D1104A, D1104B, D1106, D1110A, D1110B, D1121A, D1137A, D1137B, D1140A, D1140B, D1143A, D1143B, D1145A, D2103A, D2103B, D2107A, D2107B, D2108A, D2108B, D3102, D3105A, D3105B, D3107A, D3107B, D3108A, D3108B, H1102A, H1102B, H1116, H1120, J1107A, J1107B, J1124A, J1124B, J1125, J1126, K1105, K1114A

Description: Existing add parallel HO closer

1	Surface Closer	TB 351 PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 20.0

Doors: .L1120A, F1100A, F1100B, G1100A, G1100B, G1100C, G1100D, G1100E, G1100F, G1100G, G1100H, G1101A, G1101B, G1101C, G1101D, G1101E, L1111B, L1144A, L1144C

Description: Existing add parallel HO closer pair of doors

2	Surface Closer	TB 351 PSH	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 21.0

Doors: .J1129A, J1101, J1102, J1103, J1116

Description: Existing add hold open closer

1	Surface Closer	TB 351 H	EN	SA
1	Balance of hardware	Existing to remain		OT

Set: 22.0

Doors: A1152A

Description: Existing add 8816 exit and 704 trim

1	Rim Exit Device	LD 19 TB 43 49 70 8816	US32D	SA
1	Exit Device Trim	70 704-ETL	US26D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Balance of hardware	Existing to remain		OT

Set: 22.1

Doors: P1122

Description: Existing add 8816 exit and 704 trim, 462 stops

1	Rim Exit Device	LD 19 TB 43 49 70 8816	US32D	SA
1	Exit Device Trim	70 704-ETL	US26D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
2	Door Stop	481H	US26D	RO

Set: 22.2

Doors: P1117

Description: Existing add 8816

1	Rim Exit Device	LD 19 TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Balance of hardware	Existing to remain		OT

Set: 23.0

Doors: L1372.
Description: New storeroom lock pair w/ closer

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	TB 351 O/P9 (type as required)	EN	SA
2	Door Stop	481H	US26D	RO
2	Silencer	608		RO

Set: 24.0

Doors: A1103B
Description: New office thumbturn

1	130KB	Thumbturn Kit	26D	SA
1	Balance of hardware	Existing to remain		OT

Set: 25.0

Doors: C2291A., C2291B., D1294A., D1294B., K1127A
Description: New classroom security lock w/ closer

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Classroom Security Intruder Lock	V01 EMB 70 8238 VN1L 90-3/8" Collar	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PSH	EN	SA
3	Silencer	608		RO

Set: 25.1

Doors: L1421.

Description: New 8804 w/ STC

1	Cam Hinge	By Door MFG		PE
1	Rim Exit Device, Storeroom	LD 19 TB 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 P9	EN	SA
1	Gasketing	By Door MFG		PE
1	Sweep	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE

Note: If doors are 2" add 31- to exits

Set: 26.0

Doors: D1158.

Description: New storeroom lock w/ HO closer

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	Surface Closer	TB 351 H	EN	SA
1	Door Stop	481H	US26D	RO
3	Silencer	608		RO

Set: 27.0

Doors: D1300., D1301., L1134., L1135., L1307., L1314.

Description: New storeroom lock

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: 28.0

Doors: L1136.

Description: New classroom lock

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
3	Silencer	608		RO

Set: 29.0

Doors: D1340., L1276.
Description: New exterior SN200 exit

1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-EPT		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	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Position Switch	DPS-M / W-BK		SU
1	Power Supply	Provided by security		SU

Set: 30.0

Doors: K1128D
Description: Add 2N station

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

Notes: New 2N station

Set: 30.1

Doors: P1103

Description: New exterior exit with 2N station

1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-EPT		SU
1	Rim Exit - 2N SPAR#04867/NC-E11	LD 19 TB 43 56 70 8804 Less Pull	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 PSH	EN	SA
1	Armor Plate	K1050 36" CSK BEV	US32D	RO
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	18061CNB 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
1	Position Switch	DPS-M / W-BK		SU
1	Power Supply	Provided by security		SU
1	Keedex Lock Protector	K12S - SGT		OT

Notes: New 2N station

Set: 31.0

Doors: A1106, A1108, A1111, A1112, A1114, A1115, A1116A, A1132, A1134, A1136A, A1137, A1138A, A1139, A1150, B1103, B1104, B1105, B1106, B1107, B1108, B2232, B2236, B2240, B2241, B2242, B2243, B3132, B3135, B3136, B3140, B3141, B3142, B3143, D2133, D2134, D2137, D2138, D2139, D2140, D2141, D3133, D3134, D3135, D3139, D3140, D3141, D3142

Description: Replace thumbturn

1	130KB	Thumbturn Kit	26D	SA
1	Balance of hardware	Existing to remain		OT

Set: 31.1

Doors: A1133

Description: New SN200 lock

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Electric Power Transfer	EL-EPT		SU
1	Access Control Mort Lock	70 SN200-82271-24V 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
3	Silencer	608		RO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Position Switch	DPS-M / W-BK		SU
1	Power Supply	Provided by security		SU

Set: 32.0

Doors: MISC

Description: **Attic Stock - EVERY CAMPUS

1	Hydraulic Gate Closer & Hinge	MAMMOTH-180-HD	9005	OT
5	Quick Fix Bolts	MAMMOTH-P00006000		OT
10	Classroom Security Intruder Lock Body	8238	US26D	SA
10	130KB	Thumbturn Kit	26D	SA
50	Interchangeable Core	I/CK-7	626	BE
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	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
All attic stock to ship directly to Cy Fair.
DO NOT ship to jobsite.

Set: 33.0

Doors: L1305., L1306., L1315., L1359.L1314

Description: New 8237 STC

1	Gasket, threshold, door bottom	By the STC door manufacturer		OT
3	Hinges	By the STC door manufacturer		OT

1	Classroom Lock	70 8237 LL	US26D	SA
1	Door Stop	462	US2C	RO

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.

Set: 34.0

Doors: Stops
Description: To be used as needed during installation

20	Door Stop	481H	US26D	RO

SECTION 23 25 13 - CIRCULATING WATER SYSTEM CHEMICAL TREATMENT

PART 1 – GENERAL

1.1 WORK INCLUDED

A. Provide equipment, chemicals and treatment materials for the complete water treatment system.

B. Determine which chemicals to use from the results of a water sample analysis taken from the building domestic water supply.

C. Provide water treatment products, holding reservoirs, equipment and labor for testing, cleaning, flushing and dispensing products to achieve the required water quality for each system specified.
1. Closed chilled and hot water systems
2. The cooling tower condenser water system

D. Entire existing chilled water system shall be fully cleaned and flushed prior to the operation of chillers.

E. Test all existing closed and open water systems and provide report to Owner and Engineer.

1.2 SERVICE AND SUPPLIES

A. All work shall be performed by a qualified, full-time, Water Program Manager.
1. Specialist in the field of industrial water treatment.
2. Facilities include water analysis laboratory, development facilities and service department.

B. Provide a water treatment test set for each system (pH, alkalinity, hardness, chloride) for field use including test equipment and reagents as required for specific use with the treatment products employed.

C. Where specialized supplementary testing or control equipment is required, provide appropriate items.

D. Provide a water management and service program for a period of one year beginning at substantial completion. Make routine visits bi-weekly during first two months of operation and monthly during the remainder of the specified period.

E. Routing Services
1. Check and adjust water treatment system operation.
2. Instruct, train and advise operating personnel.
3. Check efficiency of chemicals and chemical applications.
4. Replenish chemicals and replace expendables.
5. Clean or replace filter in feeder.

F. Chemically clean the piping system.

G. Provide a complete laboratory analysis of water samples. Insert in the Owner's manuals.

H. Provide review of report figures in the field water testing.

1.3 QUALITY ASSURANCE

A. Acceptable program manager shall have:
   1. Research and development facilities.
   2. Regional laboratories capable of making water analysis.
   3. A service department and qualified technical service representatives located within a reasonable distance of the project site.
   4. Service representatives who are registered Engineers or factory-certified technicians with not less than 5 years of water treatment experience with the water treatment system manufacturer.

B. Ensure that all products, packaging, blow-down or other effluents do not violate local, state, or federal laws or regulations. Use only chemicals that are registered, when required, with the U.S. Department of Agriculture or the U.S. Environmental Protection Agency and that are labeled as required by law.

C. Provide electrical products that have been tested, listed and labeled by Underwriters Laboratories and comply with the National Electrical Manufacturers Association Standards.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Nalco Water – Ecolab (Danny Short 832-823-9716 danny.short@ecolab.com)

2.2 CLOSED CHILLED AND HOT WATER SYSTEM

A. Side stream stainless steel filter feeders in the hot water and chilled water systems:
   1. Rated at 40-gpm capacity.
   2. Operating conditions: 200 psig and 250°F.
   3. Single filter cartridge.
   4. Cartridge #:
      a. NALCO 231-FMPIC405HT
      b. WATTS #FMPIC405HT
   5. Fabricated hot dipped galvanized steel support legs and frame. Refer to detail drawing for requirements.
   6. Provide sufficient quantity of filter cartridges for warranty period. Minimum of two additional cartridges provided to owner.
   7. Provide (2) two drains for filter housing. (1) clean water drain, (1) dirty water drain.

B. Acceptable Manufacturers: Side Stream Cartridge Filter Housing
   1. NALCO #231-FMJCH40
   2. WATTS #FMJCH40

C. Treatment chemicals:
   1. Furnished as a concentrated liquid in 5 gallon pails
   2. A corrosion inhibitor of the nitrite-borate type equal to Nalco 2534.
   3. Maintained at a nitrite residual of 600 – 800 ppm in chilled loops and 1000-1500 in hot loops.
   4. With effective copper and black iron corrosion inhibitors.
   5. Form a protective film to prevent corrosion and scale formation.
   6. Have colored dye to indicate presence.
   7. Compatible with all system elements.

D. Multiple chemicals used in a common system shall be compatible.

PART 3 – EXECUTION

3.1 INSTALLATION/START-UP

A. In accordance with manufacturer's recommendations.

B. Anchor the chemical filter feeder to a concrete housekeeping pad using wedge type expansion anchors.

C. Clean and flush closed loops systems.
1. Clear water flush systems before introducing chemical cleaners.
2. Chemical cleaner shall be introduced into the systems to remove construction related oils, greases, threading compounds, and silt.
3. Chemical Cleaner shall passivate and pre-film pipe system.

3.2 WATER ANALYSIS

A. The chemical treatment agency shall provide the services of a testing laboratory to perform a site water analysis. As a minimum, conduct the following tests in accordance with ASTM standards and to the satisfaction of the Owner/Architect/Engineer.
1. Silica in water and wastewater.
2. Acidity or alkalinity of water.
3. Iron in water.
4. Hardness of water.
5. Ph of water.
6. Particulate and Dissolved Matter, Solids or Residue in Water.
7. Turbidity in water.
8. Corrosivity of water in absence of heat transfer.
9. Standard practices for sampling water.

B. Take water samples in accordance with ASTM.

C. Prepare a test report in accordance with ASTM for each of the tests conducted.

D. Submit the test reports to the Architect/Engineer.

3.3 CHEMICAL TREATMENT

A. The chemical treatment agency shall provide complete services necessary for chemically cleaning and treatment the following systems:
1. Chilled water.
2. Hot water.

B. The chemical treatment agency shall provide, but not be limited to the following:
1. Equipment and installation.
2. Chemicals.
3. Analytical and testing work.
4. Inspection.
5. Calculations.
6. Assistance to the trade installing the piping.
7. Instruction to Owner.

C. Determine which chemicals to use from the results of site water analysis. Provide the chemical necessary to achieve the desired water condition.

D. Examine and supervise flushing and pipe cleaning operations and verify that the systems are clean, free of debris and rust and other construction materials before starting water treatment.

E. After the piping has been flushed, cleaned, rinsed and charged with chemicals, then start-up and operate the chemical treatment equipment to provide steady, stable characteristics for the systems treated.

F. During construction, instruct the Contractor in the field piping and wiring of chemical feeding equipment. If such piping and wiring details are not shown on the Contract Drawings, then provide all equipment, piping, wiring, instrumentation and chemicals to provide a complete and operating system without additional cost.

G. After the chemical treatment is functioning as intended, the chemical treatment agency shall demonstrate to the Architect/Engineer the chemical treatment operation.

3.4 OWNER TRAINING

A. A chemical treatment agency, in conjunction with the chemical treatment equipment manufacturer's factory representative, shall train the Owner to operate and maintain the chemical treatment system as a whole and in part for each piece of equipment.

B. Furnish to the Owner a chemical treatment administration manual covering the chemical treatment program for each of the systems treated. The manual shall include, but not be limited to:
1. Name, address and telephone number of the chemical treatment agency and each of the equipment manufacturers.
2. Operation and maintenance manuals.
3. Test reports.
4. Chemical data sheets.
5. A narrative describing the chemical treatment program for each of the systems being treated.

3.5 TESTING AND INSPECTION

A. After the systems have been accepted, the chemical treatment agency shall visit the site every month during the warranty period.

B. During each visit:
1. Check and adjust the chemical treatment equipment.
2. Check the chemistry of the treated system to confirm the chemicals are maintaining the system as intended.
3. Advise and instruct the Owner on operational changes made to the chemical treatment program.
4. Take a water sample of each system being chemically treated and have the samples tested by a testing laboratory. Prepare a report for each water sample and submit it to the Owner. Include in the test report the changes that need to be made to the chemical treatment program.
5. Maintain complete records of the treatment program for each system at the project site. Keep the records in a hardbound manual with the building manager. A second copy shall be maintained by the agency for the agency's records.

C. Routine visits must be coordinated with the Owner.

D. Send copy of monthly report to Engineer for Verification.

END OF SECTION 23 25 13

SECTION 23 73 13 - 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

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.

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 – VARIABLE AIR VOLUME

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 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. Double wall casing construction. Construct interior casing panels with 3 lb. minimum density insulation for acoustical and condensation control.
1. Condensation on the exterior of the air handling units is not acceptable.

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. Field alterations to filter section is unacceptable.
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 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.

O. 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.

P. 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 23 73 13

SECTION 23 82 18 - DUCTLESS MINI SPLIT DX UNITS

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish and install mini split system. Complete with a slim silhouette, compact, high wall fan coil section with a wired wall mounted thermostat and a slim silhouette horizontal discharge outdoor condensing unit. Unit shall be provided with inverter driven compressor, pre-charged with R410A or R32 refrigerant. air-cooled condensing units complete with casing, compressor, condenser coil, condenser fan and controls required for a split air conditioning system.

1.2 RELATED WORK

A. Refrigerant Piping.

B. Electrical Provisions of Mechanical Work.

1.3 PERFORMANCE

A. Provide performance as scheduled on drawings, and head pressure control to enable unit to operate in temperatures as low as 20 degrees F. ambient.

1.4 QUALITY ASSURANCE

A. The units shall be tested by a Nationally Recognized Testing Laboratory (NRTL) and bear the ETL label.

B. All wiring shall be in accordance with the National Electrical Code (N.E.C.).

C. The units shall be rated in accordance with Air-conditioning, Heating, and Refrigeration Institute's (AHRI) Standard 210 and bear the AHRI Certification label.

D. The units shall be manufactured in a facility registered to ISO 9001 Quality assurance Standards and ISO 14001 which are set of standards applying to sustainability and environmental protection set by the International Standard Organization (ISO).

E. A pressure charge of R410A or R32 refrigerant sufficient for up to twenty-five (25) feet of refrigerant tubing shall be provided in the outdoor condensing unit.

F. A dry air holding charge shall be provided in the indoor section.

1.5 WARRANTY

A. Unit shall have a manufacturer's parts and defects warranty for a period five (5) years from the date of the original installation. The compressor shall have a warranty of seven (7) years from date of installation. Warranties shall start at the date of substantial completion.

PART 2 - PRODUCTS

2.0 ACCEPTABLE MANUFACTURERS

A. Daikin

B. Trane - Mitsubishi

C. LG

2.1 INDOOR UNIT GENERAL

A. The indoor shall be factory assembled, wired and run tested. Contained within the unit cabinet shall be all factory wiring, internal piping, electronic control circuit board and fan with fan motor.

B. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, and auto restart after power interruption function, an emergency operation function and a test run switch.

C. Indoor unit and refrigerant pipes shall be charged with dry air before shipment from the factory. All refrigerant piping must be insulated.

2.2 CABINET

A. The casing shall have a smooth front, top return, in a white finish.

B. Multi directional drain and refrigerant piping offering four (4) directions for refrigerant piping and two (2) directions for draining shall be standard.

C. There shall be a separate installation plate which secures the unit firmly to the wall. Secure mounting of plate and all mounting hardware shall be furnished by and be the responsibility of the installer.

2.3 FAN

A. The indoor unit fan shall be an assembly with a line-flow fan direct driven by a single motor mounted in rubber motor mount.

B. The fan shall be statically and dynamically balanced and run on a motor with permanently lubricated bearings.

C. Manual adjustable vertical guide vanes shall be provided with the ability to change the airflow from side to side (left to right).

D. An integral, motorized, horizontal air sweep flow louver shall provide an automatic change in airflow by directing the air up and down to provide for uniform air distribution.

E. The indoor unit fan motor shall operate in four (4) selectable speeds, Powerful, High, Medium, and Low.

2.4 FILTER

A. Return air shall be filtered by means of easily removed, washable, Catechin air filter and an anti-allergy enzyme filter – blue bellows type.

2.5 COIL

A. The indoor unit (evaporator) coil shall be of nonferrous construction with smooth, pre-coated aluminum fins on copper tubing.

B. Tubing shall have inner groves for high efficiency heat exchange.

C. All tube joints shall be brazed with PhosCopper or silver alloy.

D. The coil shall be pressure tested at the factory.

E. A sloped condensate pan and drain shall be provided under the coil. Drain connections shall be provided at each end of the drain pan.

2.6 ELECTRICAL

A. Power for the indoor unit shall be supplied from the outdoor unit.

B. Power supply shall be as indicated on the drawings.

C. The unit shall be equipped with a micro-processor control system directing indoor and outdoor unit coordinated operation.

D. The indoor unit shall not have any supplemental electrical heat elements.

2.7 CONTROL

A. This system shall have a wired wall mounted thermostat/controller to perform input functions necessary to operate the system. The controller shall consist of a Power On / Off switch, Mode Selector, Temperature Setting, Timer Control, Fan Speed Select and Auto Vane Selector.

B. Temperature changes shall be by 1°F increments with a range of 65°F to 87°F.

C. There shall be a 24 hour On / Off timer.

D. The microprocessor located in the indoor unit shall have the capability of sensing return air temperature and indoor coil temperature, receiving and processing commands from the space controller, providing emergency operation and controlling the outdoor unit.

E. The control voltage between the indoor unit and the outdoor unit shall be 115 volts, AC.

F. The system shall be capable of automatic restart when power is restored after power interruption.

G. The control system shall control the operation of the air sweep louvers, as well as provide on / off and system / mode function switching.

2.8 OUTDOOR UNIT GENERAL

A. The outdoor unit is designed specifically for use with the indoor units. The outdoor unit shall be completely factory assembled, internally piped and wired. Each unit shall be run tested at the factory.

B. When refrigerant lines are exposed on exterior of building provide “LINE-HIDE” line set cover system.
   1. Material, Weather resistant, UV stabilized, ASA/PVC/ABS/Poly/PE
   2. Assembly Screws, stainless steel.

2.9 UNIT CABINET

A. The casing shall be fabricated from zinc coated steel, bonderized with an electrostatically applied, thermally bonded, acrylic or polyester powder coating for corrosion protection.

B. Case and mounting feet shall be as follows:
   1. The base shall be of Aluminum-Zinc-Magnesium alloy coated steel, with welded mounting feet.

C. Cabinet mounting and construction shall be sufficient to withstand 155 MPH wind speed conditions for use in Hurricane condition areas. Mounting, base support, and other installation to meet Hurricane Code Conditions shall be by others.

2.10 FAN

A. The unit shall be furnished with a directive drive propeller type fan, statically and dynamically balanced for smooth and quiet operation.

B. The fan motor shall have inherent protection, be equipped with permanently lubricated bearings. The fan motor shall be mounted and isolated for quiet operation.

C. The fan shall be provided with a raised guard to prevent contact with moving parts.

D. The outdoor unit shall have horizontal discharge airflow.

2.11 COMPRESSOR

A. The compressor shall be a high performance, inverter driven rotary type.

B. Compressor shall be mounted using rubber isolating bushings to avoid the transmission of vibration.

C. Compressor shall be protected by an automatic over current relay and a thermal overload switch.

2.12 OPERATION

A. The outdoor unit shall have an accumulator.

B. The outdoor unit must have the ability to operate with a maximum height difference of 35 feet between indoor and outdoor units.

C. The unit shall have a maximum refrigerant tubing length of 65 feet between indoor and outdoor units without the need for line size changes, traps or additional oil. All refrigerant lines must be insulated.

D. The unit shall be pre-charged for a maximum of 25 feet of refrigerant tubing.

2.13 ELECTRICAL

A. Power supply shall be as indicated on the drawings.

B. The outdoor unit shall be controlled by the microprocessor located in the indoor unit. The control voltage between the indoor unit and the outdoor unit shall be 115 volts, AC.

2.14 WALL OR ROOF BRACKET

A. As indicated on the drawings, provide each unit 3 tons and below with a stainless steel

mini-split condenser bracket.

B. Unit shall be constructed for a maximum weight of 300 lbs.

C. Unit shall be manufactured by Rectorseal model #WBB-300SS or Diveritech model #QSWB4000SS or approved equal.

2.15 CONDENSATE PUMPS

A. A condensate pump shall only be provided as a means of condensate disposal when a gravity drain is not available.

B. Provide a Little Giant Model #554642 VCMA-20ULS-C-PRO-20.

C. Unit shall be provided with anti-sweat sleeve, tank bracket and overflow detection switch.

D. Condensate pump shall be wall mounted. Mount pump under wall cassette.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Mount condensing units on 4" foundation pads and pipe as shown on Drawings or as recommended by the equipment manufacturer. Install refrigerant filter dryer and sight indicating glass.

B. Install units on vibration isolation pads.

C. Ensure unit provided will meet the refrigerant and line lengths required by the installation as indicated on the drawings.

D. Provide convenience water and electrical within 50 feet of new condensing unit.

3.2 CONTROL WIRING

A. Furnish and install control wiring as required. Install control wiring in conduit.

3.3 DELIVERY, STORAGE AND HANDLING

A. Unit shall be stored and handled according to the manufacturer’s recommendations.

B. The wired controller shall be shipped inside the carton with the indoor unit and able to withstand 105°F storage temperatures and 95% relative humidity without adverse effect.

3.4 START-UP

A. Follow the manufacturer's start-up procedures.

B. Provide flexible elastomeric rubber closed cell insulation to prevent condensation from occurring op suction piping. After completion of successful start-up, installing contractor shall seal all openings in insulation and apply a protective aluminum sheetmetal jacket over insulation exposed on exterior of building.

END OF SECTION 23 82 18

SECTION 12 93 00 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUBMITTALS

A. Product Data: Include full range of standard color selections.

B. Shop Drawings: Indicate materials, dimensions, tolerances, welding, fasteners, hardware, mounting, finish, and accessories.

C. Quality Assurance Submittals:
1. Qualifications: Proof of manufacturer qualifications.
2. Manufacturer's Installation Instructions.

D. Samples: Provide actual samples of finish materials indicating complete range of colors and textures available for Architect's selection, minimum 2 inch by 2 inch.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum five years experience in producing products of the type specified.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Handling: Protect materials and finish from damage during handling and installation.

PART 2 - PRODUCTS

2.1 APPROVED MANUFACTURER

A. Specifications are based on products of listed manufacturer. Other manufacturers must have a minimum of five (5) years experience manufacturing products meeting or exceeding the specifications and comply with Division 1 requirements regarding substitutions to be considered.

2.2 SITE SEATING

A. Provide site benches as manufactured by Landscape Forms, Inc. or comparable product approved by Architect.

B. Color: Metallic Titanium.

C. Three (3) Style: "Presidio" benches with backs.

D. Accessories: Provide fasteners, anchors, and miscellaneous materials required for complete installation.

E. Mounting Type: Embedded.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates upon which site furnishings will be installed.
   1. Verify that surfaces are clean, flat and level.

B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.

C. Commencement of work by installer is acceptance of substrate.

3.2 INSTALLATION

A. Install products in accordance with manufacturer's installation instructions.

B. Install products level, plumb, square, accurately aligned, correctly located per drawings, and without warp.

C. Embedded mounting: Embed in accordance with manufacturer's instructions.

D. Use hardware and fasteners in accordance with manufacturer's instructions.

E. Repair minor damage to finishes, in accordance with manufacturer's instructions and as approved by Architect.

3.3 CLEANING

A. Follow manufacturer's instructions.

3.4 PROTECTION

A. Protect site furnishings from damage due to other construction operations.

END OF SECTION 12 93 00

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
14. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
15. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
16. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
17. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
18. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRE STOPPING CONDITIONS.
19. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
20. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
21. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
24. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, U.N.O.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
26. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
28. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
29. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

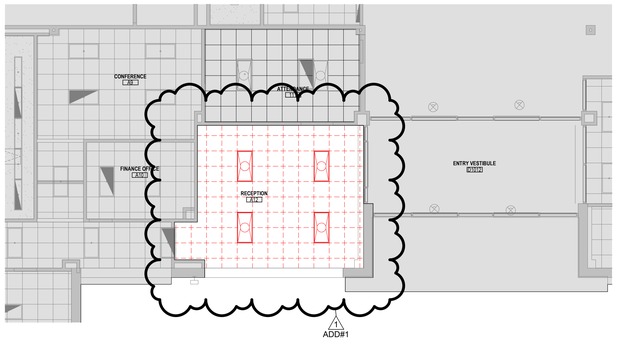
- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- DEMO EXISTING GYP CEILING DOWN TO STUDS.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- DEMO EXISTING 2' x 2' CEILING TILES. PREP FOR NEW CEILING TILES. EXISTING CEILING GRID IS TO REMAIN.
- DEMO EXISTING METAL SOFFIT. PREP FOR NEW CEILING.
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- DEMOLISH EXISTING PYRAMID SOUND DIFFUSER
- NOT IN CONTRACT

KEYNOTE LEGEND

NUMBER	DESCRIPTION

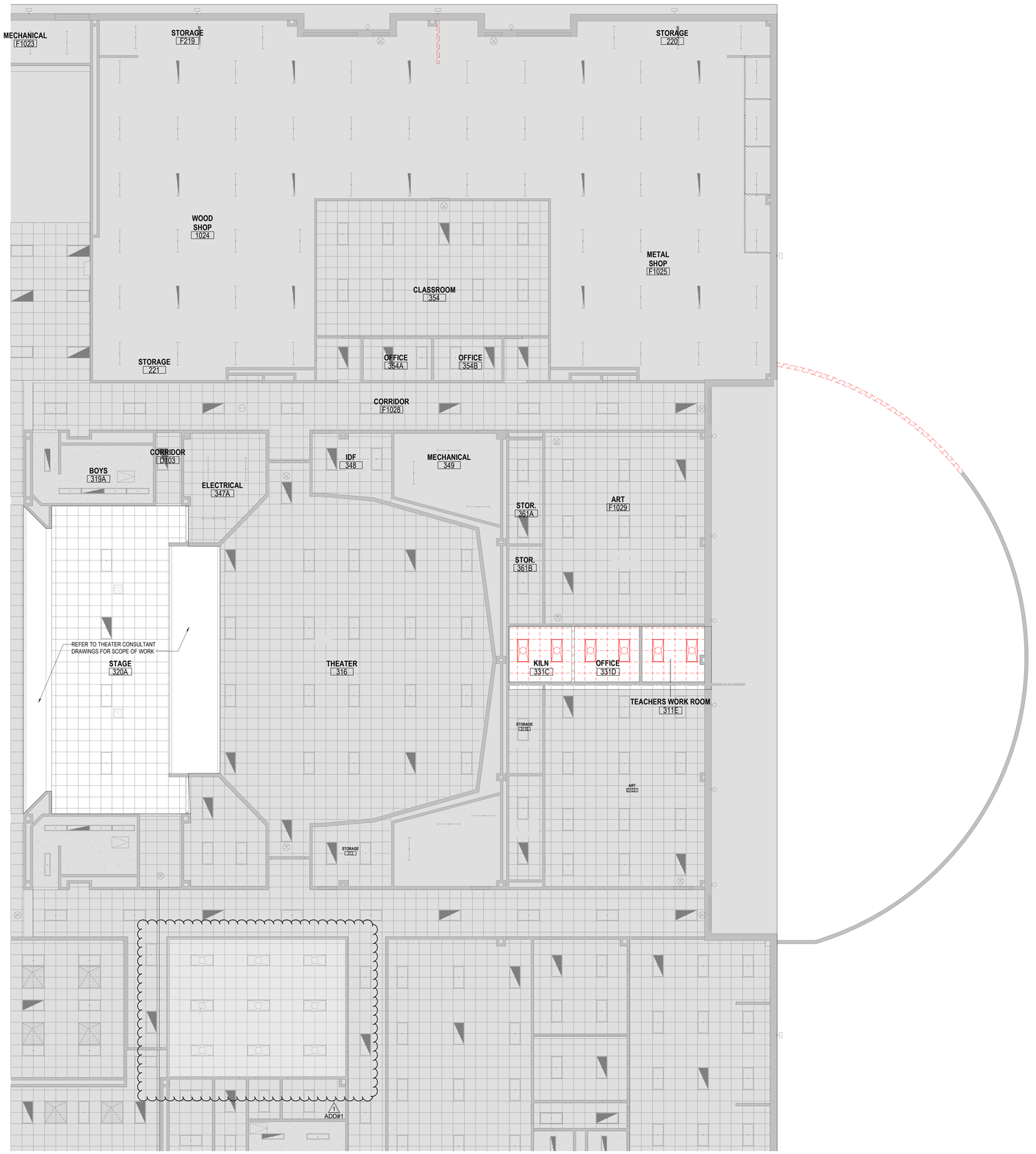
24 DEMOLITION CEILING MATERIALS LEGEND
1/8" = 1'-0"

23 KEY NOTES



18 1ST LEVEL - DEMO CEILING PLAN - AREA D.
1/8" = 1'-0"

06 1ST LEVEL - DEMO CEILING PLAN - AREA E
1/8" = 1'-0"



04 1ST LEVEL - DEMO CEILING PLAN - AREA F
1/8" = 1'-0"

ISSUE FOR PROPOSAL

AD201.1

1ST FLOOR DEMOLITION CEILING PLAN - ENLARGED AREAS

FOR BLUEBEAM LABELING/OCR:

File Path: Autodesk Docs://CFISD_240058_Watkins MS Reno/AR_240058_Watkins MS Reno.rvt

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Plot Stamp: 3/14/2025 10:13:41 AM

PBK

ARCHITECT — PBK Architects, Inc.
HOUSTON — PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0808 P
713-961-4571 F
TX Firm: BR 1608

CIVIL — CONSULTANT NAME — T 000-000-0000
LANDSCAPE — CONSULTANT NAME — T 000-000-0000
STRUCTURAL — CONSULTANT NAME — T 000-000-0000
MEP — CONSULTANT NAME — T 000-000-0000
ACOUSTIC — CONSULTANT NAME — T 000-000-0000
THEATER — CONSULTANT NAME — T 000-000-0000
FOOD SERVICE — CONSULTANT NAME — T 000-000-0000
OTHER — CONSULTANT NAME — T 000-000-0000

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
Houston, TX 77084

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

A B C D E F G

KEY PLAN — NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT — RAYMOND D. HUNT — 27548 — STATE OF TEXAS
03/10/2025

CLIENT: CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - ENLARGED AREAS

AD201.1

0"
1"

1ST FLOOR PLAN & SCHEDULES - AREA D

A-101D

FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

FINISH SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL H.M. DOORS _____ U.N.O.

REMARKS:

1. PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
2. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT

WINDOW SCHEDULE REMARKS

1. PROVIDE MINI BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

EXISTING DOOR SCHEDULE - 1ST FLOOR - AREA D

DOOR			PANEL				FRAME									GENERAL	
										DETAIL							
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
D107A	2'-9 1/2"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							
D107B	2'-8 1/4"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							
D109A	2'-8 1/4"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							
D109B	2'-8 1/4"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							
D110	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D141	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D143	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D158	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D159A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D159B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D160A	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D160B	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D160C	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D160D	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D163A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D163B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D1012A	5'-9 1/2"	6'-6 3/4"		2"	EXIST	EXIST	001	EXIST	EXIST							CARD READER
D1012B	5'-9 1/2"	6'-6 3/4"		2"	EXIST	EXIST	001	EXIST	EXIST							CARD READER/2N
D1013A	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
D1013B	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							CARD READER
D1014	5'-0 5/8"	11'-7 121/128"	HG-2	1 3/4"	EXIST	EXIST		EXIST	EXIST							CARD READER
D1015	2'-8 1/4"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							CARD READER
D1018	2'-8 1/4"	6'-6 3/4"	F	1 3/4"	EXIST	EXIST		EXIST	EXIST							CARD READER
DA9	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DA10	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DA13A	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DA13B	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DA36	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DA122	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
DLGIA	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
Grand total: 30																

NEW DOOR SCHEDULE - 1ST FLOOR - AREA D

DOOR			PANEL				FRAME						GENERAL			
										DETAIL						
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
D208b	3'-0"	7'-0"	HG-2	1 3/4"	ALUM/GL	ALUM		ALUM	ALUM	08/A-812	14/A-812	02/A-812				NEW DOOR
Grand total: 1																

ADD#1

WALL FINISH SCHEDULE - 1ST LEVEL - AREA D

ROOM DATA		BASE FINISH	WALL FINISHES			
NUMBER	NAME		NORTH	EAST	SOUTH	WEST
208	WAITING	RB2	P4	P4	P4	P4
A12	RECEPTION	RB2	P4	P4	P4	P4

EXISTING WINDOW SCHEDULE - 1ST LEVEL AREA D

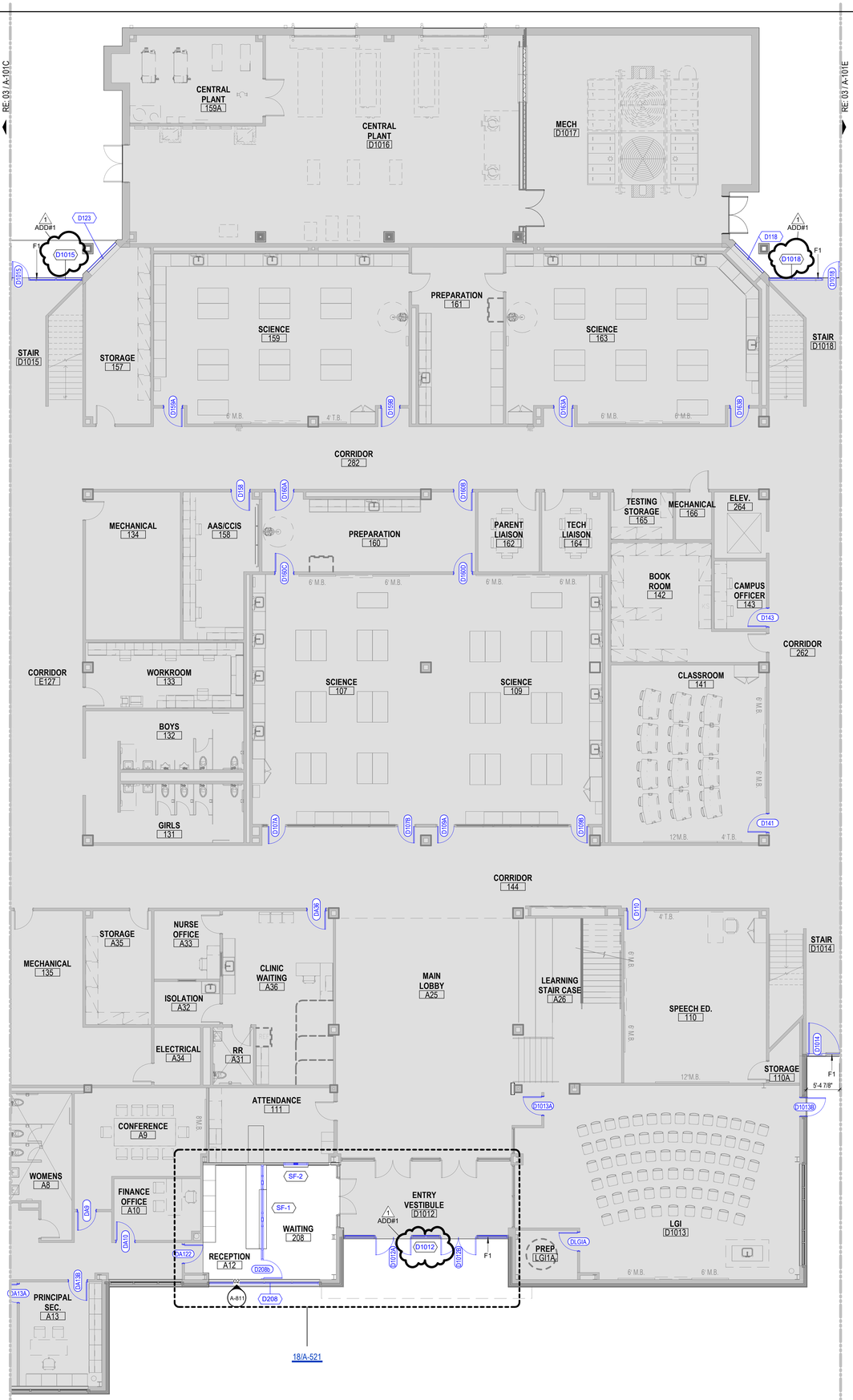
	FRAME SIZE W x H			FRAME		DETAILS			
NUMBER	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS
D208	18'-2 13/16"	4'-0"	02/A-811						1
D1012	27'-11 7/8"	28'-1"	16/A-811						1

NEW WINDOW SCHEDULE - 1ST LEVEL - AREA D

	SIZE									DETAILS			
NUMBER	WIDTH	HEIGHT	SILL HEIGHT	ELEVATION	MATERIAL	FINISH	FIRE RATING	STC	GLAZIN G TYPE	JAMB	HEAD	SILL	REMARKS
D118	6'-6"	9'-0"	4'-0"	06/A-811	ALUM	BRONZE				11/A-812	17/A-812	05/A-812	1
D123	6'-6"	9'-0"	4'-0"	06/A-811	ALUM	BRONZE				11/A-812	17/A-812	05/A-812	1

NEW STOREFRONT SCHEDULE - 1ST LEVEL AREA D.

	FRAME SIZE W x H			FRAME		DETAILS			
NUMBER	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS
SF-1	19'-5 93/256"	10'-0 5/8"	15/A-521	ALUM		14/A-812	08/A-812	02/A-812	1
SF-2	4'-0"	4'-8 81/256"	16/A-811	ALUM					1



03 1ST LEVEL - FLOOR PLAN - AREA D
1/8" = 1'-0"

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE __M8_____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE __M6_____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

19 GENERAL ARCH PLAN NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM. GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT

EXISTING DOOR NOT IN CONTRACT

EXISTING WINDOW NOT IN CONTRACT

DOOR IN SCOPE

WINDOW IN SCOPE

01 FLOOR PLAN LEGEND
1/8" = 1'-0"

PBK

ARCHITECT
PBK Architects, Inc.
HOUSTON
PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
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TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T 000-000-0000

LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

THEATER
CONSULTANT NAME
T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
Houston, TX 77084

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

A B C D E F G

KEY PLAN
NORTH: PLAN TRUE

ARCHITECT

REGISTERED ARCHITECT — STATE OF TEXAS

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA D

A-101D

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Author
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3/14/2025 10:13:57 AM

0"
1"

1ST FLOOR PLAN & SCHEDULES - AREA F
A-101F
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

EXISTING DOOR SCHEDULE - 1ST FLOOR - AREA F

DOOR			PANEL				FRAME								GENERAL	
										DETAIL			FIRE		HARDWARE	
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
F103	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F316A	6'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F354C	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F354D	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F1024A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F1025A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
F1028	6'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							CARD READER
F1029A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	001	EXIST	EXIST							
Grand total: 8																

NEW DOOR SCHEDULE - 1ST FLOOR - AREA F

wtwt			PANEL				FRAME								GENERAL	
										DETAIL			FIRE		HARDWARE	
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
F110.	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	001	HM	PT	09/A-812	15/A-812	03/A-812				
F311DA.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	HM	PT	09/A-812	15/A-812	03/A-812				
F311DB.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	HM	PT	09/A-812	15/A-812	03/A-812				
F1022B.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	EXIST	EXIST	07/A-812	13/A-812	01/A-812				2N
F1024B.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	EXIST	EXIST	07/A-812	13/A-812	01/A-812				CARD READER/2N
F1025B.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	EXIST	EXIST	07/A-812	13/A-812	01/A-812				CARD READER
F1029.	3'-0"	6'-10"	F	1 3/4"	HM	HM	001	HM	PT	09/A-812	15/A-812	03/A-812				
F1030.	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	HM	PT	07/A-812	13/A-812	01/A-812				CARD READER
F1042.	3'-0"	6'-10"	F	1 3/4"	ALUM/GL	ALUM/GL	011	ALUM	PT	10/A-812	16/A-812	04/A-812				
F1052.	6'-0"	6'-10"	F	1 3/4"	WD	PL-1	001	HM	PT	07/A-812	13/A-812	01/A-812				
Grand total: 10																

AREA F - GATE SCHEDULE

MARK	SIZE		MTL	H.W.	REMARKS
	W	H			
G-03	3'-0"	6'-0"	Chainlink		AREA F - gate

FLOORPLAN LEGEND

- NOT IN CONTRACT
- EXISTING DOOR NOT IN CONTRACT
- EXISTING WINDOW NOT IN CONTRACT
- DOOR IN SCOPE
- WINDOW IN SCOPE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.X11	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED AS REQUIRED FOR DEMO AND INSTILLATION OF NEW PAINT BOOTH
02 41 00.X16	EXISTING WELDING BOOTH, CURTAINS, AND TRACK SYSTEM TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. REMOVE EQUIPMENT AND PROTECT EQUIPMENT AS REQUIRED TO PREP FOR INFILL OF EXISTING LOUVERS.
04 20 00.CU5	NEW 4" CMU CURB
10 22 13.WMP	WIRE MESH PARTITION UP TO 10'-0" TALL
11 57 16.PSB	NEW PAINT SPRAY BOOTH, RE: SPEC

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5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE __M8_____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE ___M8.F____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

28 FLOOR PLAN LEGEND
1/8" = 1'-0"

27 KEYNOTE LEGEND

26 GENERAL ARCH PLAN NOTES

WALL FINISH SCHEDULE - 1ST LEVEL - AREA F

ROOM DATA		BASE	WALL FINISHES			
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST
F1025	METAL SHOP	-	-	-	-	-
F1026	MANUFACTURING CLASSROOM	RB2	P5	P5	P5	P5
F1027	MECH ROOM	RB2	P4	P4	P4	P4
F1029	STORAGE	RB2	P4	P4	P4	P4
F1030	KILN	-	-	-	-	-

NEW WINDOW SCHEDULE - 1ST LEVEL AREA F

	FRAME SIZE W x H			FRAME		DETAILS			
NUMBER	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	REMARKS
F1026	14'-0"	1'-6"	03/A-811	ALUM	BRONZE	17/A-812	11/A-812	05/A-812	

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

FINISH SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

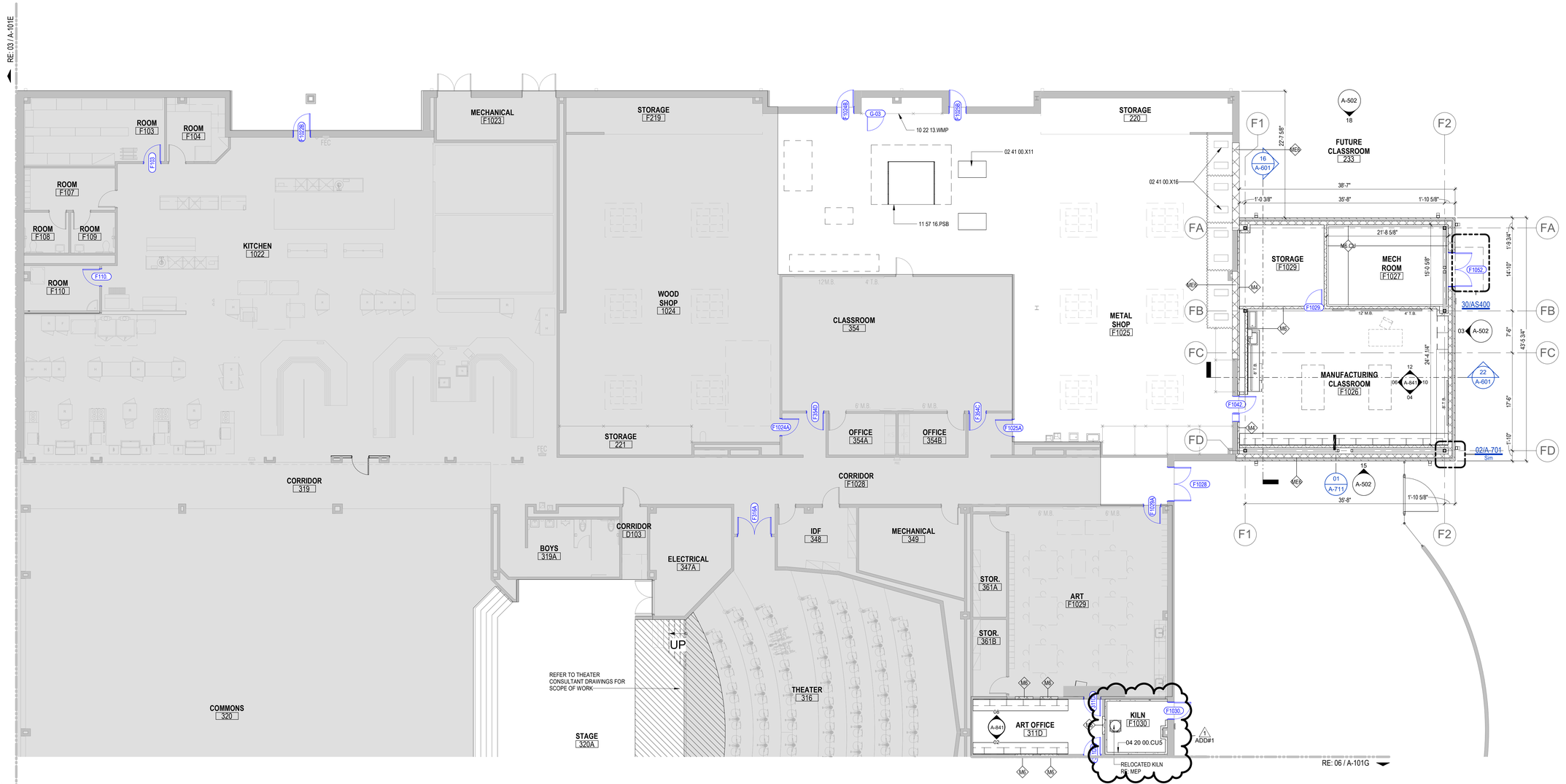
CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL H.M. DOORS _____ U.N.O.

REMARKS:

1. PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
2. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT



06 1ST LEVEL - FLOOR PLAN - AREA F
1/8" = 1'-0"

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LANDSCAPE CONSULTANT NAME T.000-000-0000
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OTHER CONSULTANT NAME T.000-000-0000

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1
4800 Cairnvillage St.
Houston, TX 77084
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
BRANDON D. SMITH 27548 REGISTERED ARCHITECT STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

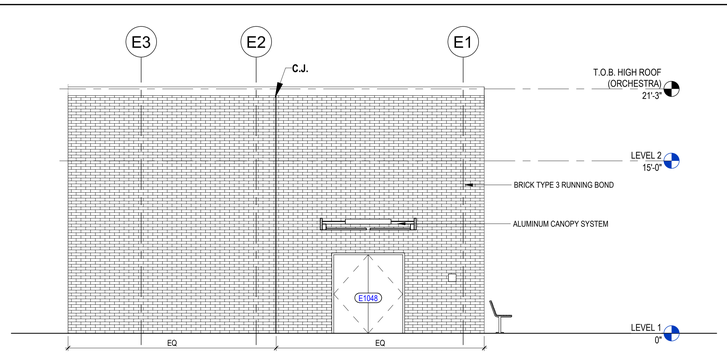
DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

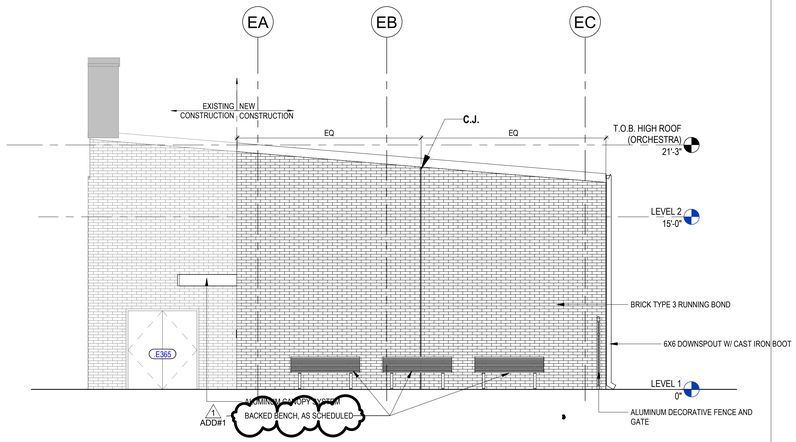
ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA F

A-101F

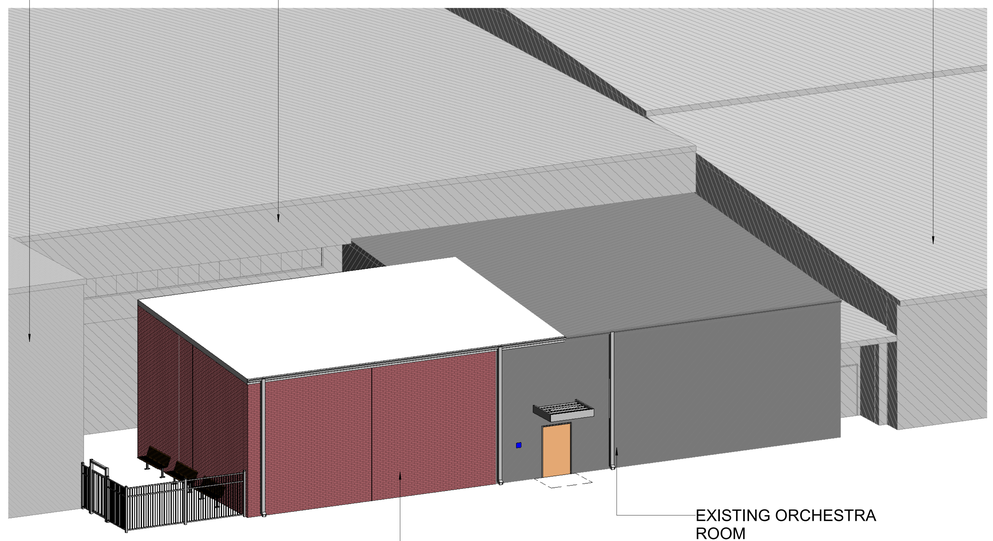


30 ORCHESTRA EXT. ELEVATION - NORTH
3/16" = 1'-0"



18 ORCHESTRA EXT. ELEVATION - WEST
3/16" = 1'-0"

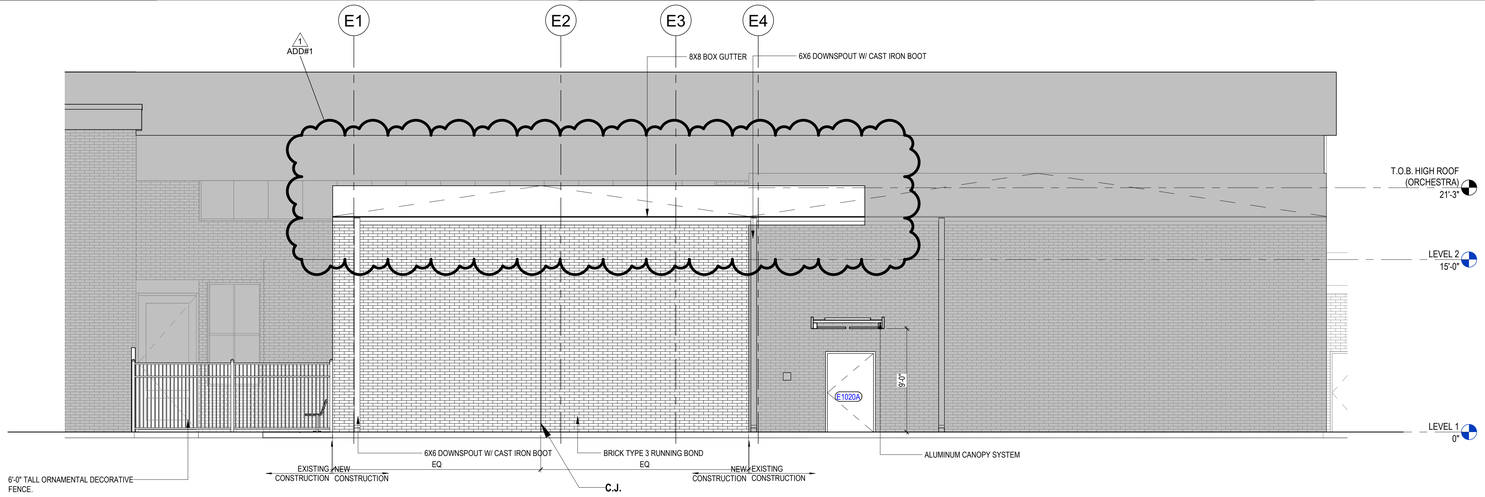
EXISTING BUILDING - WATKINS MS



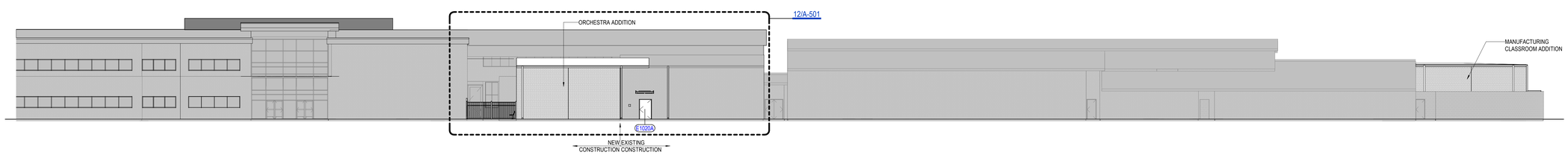
EXISTING ORCHESTRA ROOM

ORCHESTRA ADDITION

26 ORCHESTRA ADDITION



12 ORCHESTRA EXT. ELEVATION - SOUTH
3/16" = 1'-0"



06 SOUTH ELEVATION
1/16" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. CONTRACTOR SHALL PROVIDE WALL MOCK-UP. MOCK-UP TO BE 8' TALL, 8' WIDE. MOCK-UP TO INCLUDE A 4X4 WINDOW. MOCK-UP TO INCLUDE ALL FLASHING AND WATERPROOFING TO SHOW COMPLETE BUILDING ENVELOPE.
5. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
6. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
7. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
8. MASONRY WEEP AT 16" O.C. MAXIMUM.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
10. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
11. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
12. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 2'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
13. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
15. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
16. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.
17. CONTRACTOR SHALL PAINT EXPOSED STEEL PER NOTES ON CONTRACT DRAWINGS.

EXTERIOR MATERIALS LEGEND

04 20 00.BK3 (R)
BRICK TYPE 3, RUNNING BOND

NOT IN CONTRACT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK3 (R)	BRICK TYPE 3 RUNNING BOND
07 62 00.DSP	6X6 DOWNSPOUT W/ CAST IRON BOOT
07 62 00.GTR	8X8 BOX GUTTER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
32 31 19.ADF	ALUMINUM DECORATIVE FENCE AND GATE
32 31 19.ADFS	6'-0" TALL ORNAMENTAL DECORATIVE FENCE.
32 33 00.BB2	BACKED BENCH, AS SCHEDULED

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CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
A B C D E F G
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT BRANDON D. WINNE 37540 STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

EXTERIOR ELEVATIONS - ORCHESTRA ADDITION

A-501

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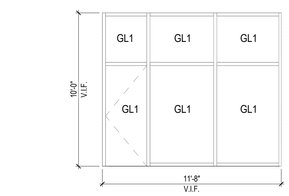
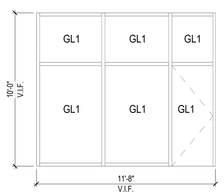
0"
1"

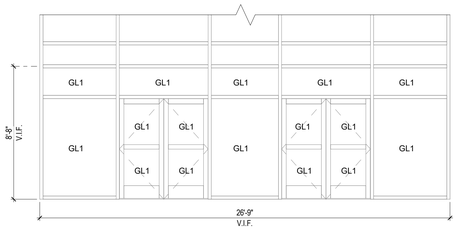
ADD#1



18 AREA D - EXISTING STOREFRONT D1018
1/4" = 1'-0"



17 AREA D - EXISTING STOREFRONT D1015
1/4" = 1'-0"



16 AREA D - EXISTING STOREFRONT D1012
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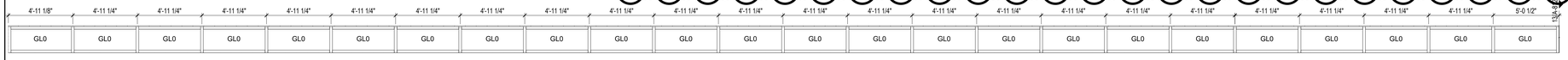
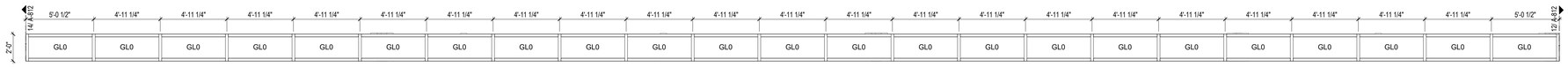


14 WINDOW A200 - ELEVATION (1)
1/4" = 1'-0"



13 WINDOW A200 - ELEVATION (2)
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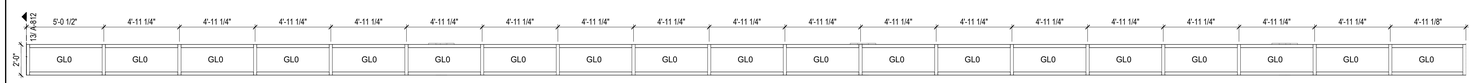
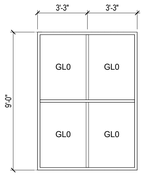
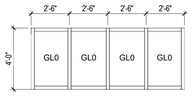


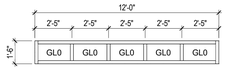
12 WINDOW A200 - ELEVATION (3)
1/4" = 1'-0"



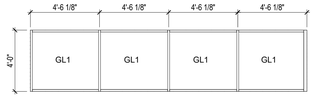
06 WINDOW TYPE 1
1/4" = 1'-0"



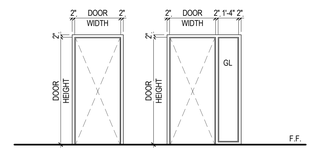
04 WINDOW TYPE 2
1/4" = 1'-0"



03 NEW WINDOW - AREA F
1/4" = 1'-0"



02 EXIST. RECEPTION/WAITING WINDOW
1/4" = 1'-0"



01 DOOR FRAME CONFIGURATIONS
1/4" = 1'-0"

MATERIALS

AL - ALUMINUM	**VL -** VINYL
HM - HOLLOW METAL	**PL -** PLASTIC LAMINATE
HG - HOLLOW METAL GALV	**WS -** WOOD, SOLID CORE
HS - HM 24 GA. STEEL	**WH -** WOOD, HOLLOW CORE
SS - STAINLESS STEEL	**PTD# -** PAINTED TYPE

REMARKS LEGEND

1. WITH EGRESS DEVICE
2. MAGNETIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER

GLAZING MATERIALS LEGEND

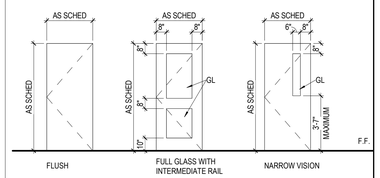
GL0
1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1

GL1
LAMINATED GLAZING SAFETY GLAZING

GL2
9/16" CHILDGUARD GLASS

GL3
1/4" CLEAR TEMPERED GLASS

GL4
3/8" CHILDGUARD GLASS



07 DOOR PANEL TYPES
1/4" = 1'-0"

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BRANDON D. RUSH
87148
STATE OF TEXAS
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ISSUE FOR PROPOSAL

BUILDING NUMBER

DOORS - WINDOWS PANEL & FRAME TYPES

A-811

ISSUE FOR PROPOSAL

DOORS - WINDOWS PANEL & FRAME TYPES
A-811
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FINISH SCHEDULE

AF100

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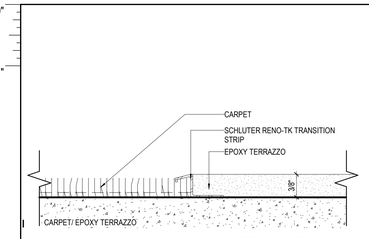
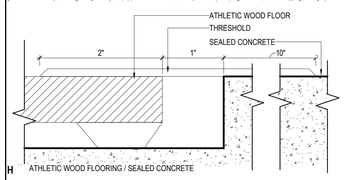
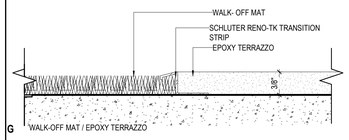
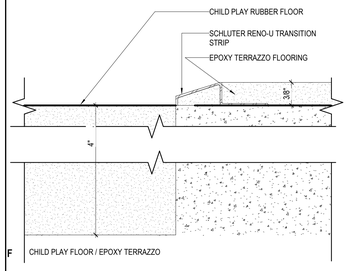
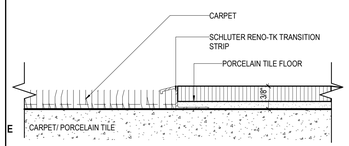
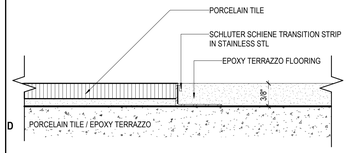


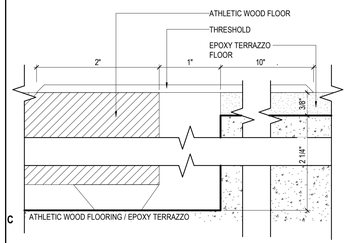


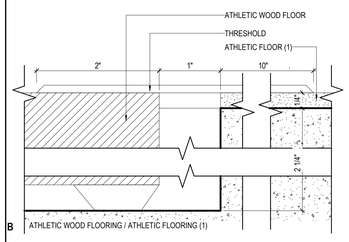


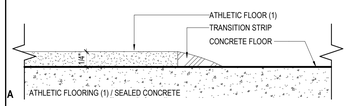


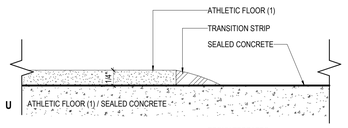


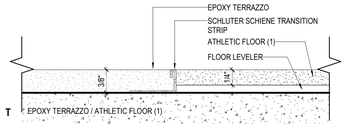


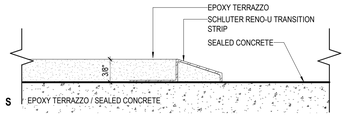


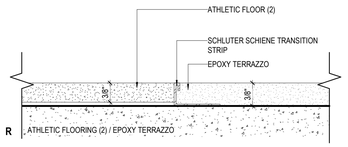


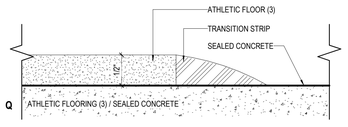


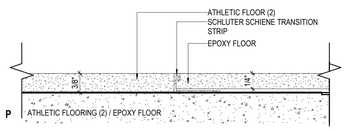


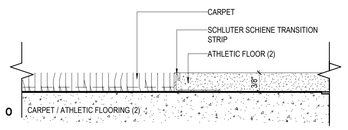


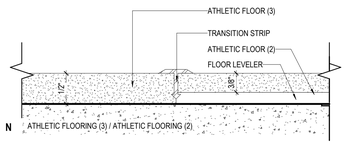


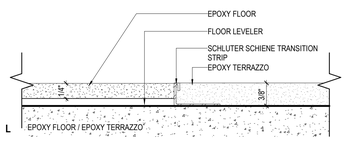


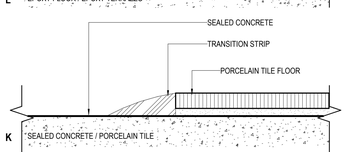


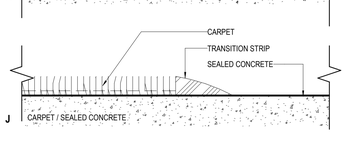




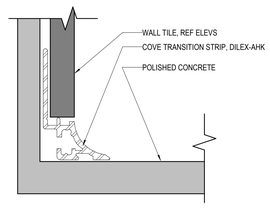


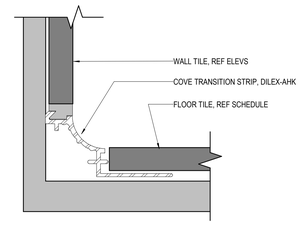


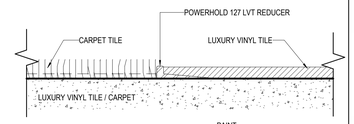


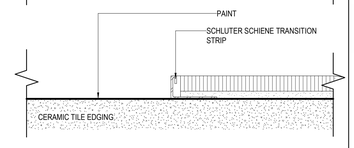


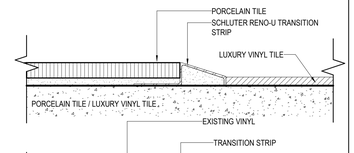
06 TYP INT FLOOR TRANSITIONS
12" = 1'-0"

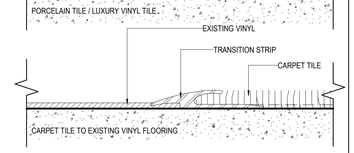


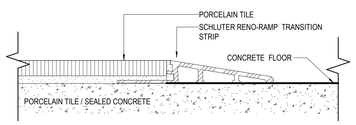


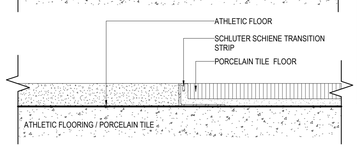


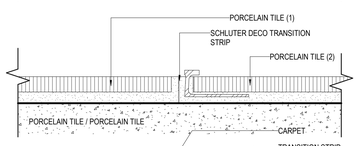








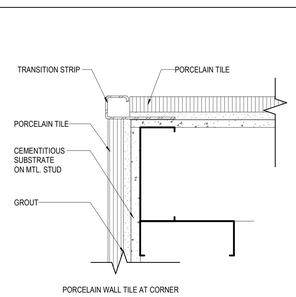


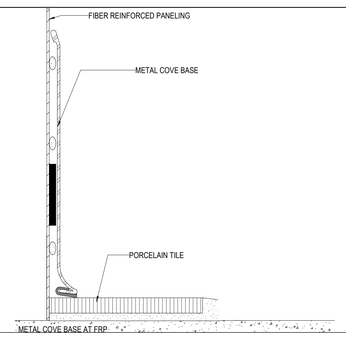


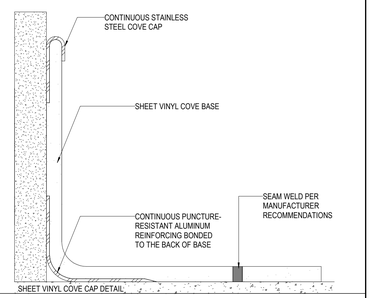
04 INT FLOOR TRANSITIONS
12" = 1'-0"

240058 CY-PARK HS, ROWE MS & WATKINS MS - SCHEDULE OF FINISHES

ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	LOCATION	NOTES
			CARPET			
09.68.00.CP1	TARKETT	AETERMATH II	FANNEL	POWERBOND	RECEPTION - ROWE MS	
ADD#1 09.68.00.CP2	TARKETT	AFTERMATH II	ACCESS	POWERBOND	RECEIVING, ORCHESTRA, ENSEMBLE, PRACTICE, BUSINESS COMPUTER CLASSROOMS - CY-PARK HS	
09.68.00.CP3	TARKETT	2ND POWER	NEW AGE	POWERBOND	ORCHESTRA, ENSEMBLE AND PRACTICE - WATKINS	
09.68.00.CP4	TARKETT	HALFTONE	GRAYSCALE	POWERBOND	RECEPTION AREA - WATKINS	
			RUBBER BASE			
09.65.13.RB1	ROPPE	TS RUBBER BASE	BLACK BROWN	4"H	ROWE MS & CY-PARK HS	
09.65.13.RB2	ROPPE	TS RUBBER BASE	123 CHARCOAL	4"H	WATKINS MS	
			LUXURY VINYL TILE			
09.65.00.RFT1	TARKETT	COLOR PLAY - COLOR BEAM	TBD	18"X18"	CORRIDOR PATCH, DIGITAL ART, STORAGE & REHEARSAL - CY-PARK HS	
09.65.00.RFT2	TARKETT	COLOR PLAY - COLOR BEAM	TBD	18"X18"	CORRIDOR PATCH, DIGITAL ART, STORAGE & REHEARSAL - CY-PARK HS	
09.65.00.RFT3	TARKETT	EVENT CLASSIC PLANK	AMERICAN CHERRY 3305	6"X36"	OFFICE - WATKINS MS	
			PAINT			
09.90.00.P1	SHERWIN WILLIAMS	SW7015	REPOSE GRAY		ROWE - FIELD PAINT	
09.90.00.P2	SHERWIN WILLIAMS	SW7631	CITY LOFT		FIELD PAINT - CY-PARK HS	
09.90.00.P3	SHERWIN WILLIAMS	SW7642	PAVESTONE		ACCENT PAINT - CY-PARK HS	
09.90.00.P4	SHERWIN WILLIAMS	SW7063	NEBULOUS WHITE		FIELD - WATKINS MS	
09.90.00.P5	SHERWIN WILLIAMS	SW7065	ARGOS		ACCENT PAINT - WATKINS MS	
09.90.00.P6	SHERWIN WILLIAMS	SW7048	URBANE BRONZE		DOOR FRAMES - CY-PARK HS	
09.90.00.P7	SHERWIN WILLIAMS	SW 7068	GRIZZLE GRAY		DOOR FRAMES - WATKINS	
			PLASTIC LAMINATE			
06.20.00.PL1	FORMICA	5488-58	SMOKY BROWN PEAR		RECEPTION DESK - ROWE MS	
06.20.00.PL2	FORMICA		CHESTNUT WOODLINE		RECEPTION DESK CABINETS & BOTTOM OF ROOM SIGNAGE - CY-PARK HS	
06.20.00.PL3	WILSONART		BRAZILWOOD		RECEPTION DESK, DOORS & BOTTOM ROOM SIGNAGE - WATKINS MS	
12.36.00PLC1	WILSONART		CANYON ZEPHYR		RECEPTION DESK WORKSURFACE & TOP OF ROOM SIGNAGE - CY-PARK HS	PLASTIC LAMINATE COUNTERTOP
12.36.00PLC2	WILSONART		CRISP LINEN		RECEPTION DESK WORKSURFACE & TOP OF ROOM SIGNAGE - WATKINS MS	PLASTIC LAMINATE COUNTERTOP
			QUARTZ			
12.36.00.QRC1	CAMBRIA		MONTGOMERY		RECEPTION DESK WORKSURFACE & TRANSACTION - ROWE MS	
12.36.00.QRC2	SILESTONE		BLANCO MAPLE		RECEPTION DESK TRANSACTION - CY-PARK HS	
12.36.00.QRC3	SILESTONE		BLANCO STELLAR		RECEPTION DESK TRANSACTION - WATKINS MS	
			ACOUSTICAL PANELS			
09.84.00.ARC1	GUILFORD OF MAINE	ANCHORAGE	GOOSE		FINE ARTS - CY-PARK HS	
09.84.00.ARC2	GUILFORD OF MAINE	ANCHORAGE	GRAPHITE		FINE ARTS - CY-PARK HS	
09.84.00.ARC3	GUILFORD OF MAINE	ANCHORAGE	ASTEROID		ORCHESTRA, ENSEMBLE & PRACTICE - WATKINS MS	
09.84.00.ARC4	GUILFORD OF MAINE	ANCHORAGE	RED DELICIOUS		ORCHESTRA, ENSEMBLE & PRACTICE - WATKINS MS	
			EPOXY FLOORING			
09.67.00.FF1	DEX-O-TEX		DFS-B-05		LOCKER ROOM - WATKINS MS	INTEGRAL EPOXY BASE
			MISC.			
03.35.43.PC1			POLISHED STAINED CONCRETE		ART, KILN, - CY-PARK HS	POLISHED STAINED CONCRETE
03.35.00.SC1			SEALED CONCRETE		MECH - CY-PARK HS & KILN - WATKINS MS	SEALED CONCRETE
11.61.43	KM FABRICS		BLACK		STAGE CURTAIN - WATKINS	







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MEP CONSULTANT NAME T.000-000-0000
ACOUSTIC CONSULTANT NAME T.000-000-0000
THEATER CONSULTANT NAME T.000-000-0000
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OTHER CONSULTANT NAME T.000-000-0000

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
Houston, TX 77084

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN

NORTH: PLAN TRUE

ARCHITECT

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

FINISH SCHEDULE

AF100

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ISSUE FOR PROPOSAL

0"
1"

1ST FLOOR FINISH PLAN - COMPOSITE
AF101
FOR BLUEBEAM LABELING/OCR:

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED STRUCTURAL MEMBERS, STRUCTURAL DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS, ETC. TO MATCH ADJACENT SURFACES.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
6. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
7. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
11. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
12. PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
13. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
14. REFER TO **AF201** FOR FLOOR TRANSITIONS AT THRESHOLD.
15. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **03 35 43.PC1** POLISHED STAINED CONCRETE
- **09 68 00.CP3** CARPET, TYPE 3
- **09 68 00.CP4** CARPET, TYPE 4
- **09 65 00.RFT3** LUXURY VINYL TILE
- **09 67 00.FF1** EPOXY
- NOT IN CONTRACT

06 1ST LEVEL - FINISH PLAN - COMPOSITE
1 : 275

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MEP/FP CONSULTANT NAME T.000.000.0000
ACOUSTIC CONSULTANT NAME T.000.000.0000
THEATER CONSULTANT NAME T.000.000.0000
FOOD SERVICE CONSULTANT NAME T.000.000.0000
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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

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Houston, TX 77084
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

A B C D E F G

KEY PLAN NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT KENDON D. PBK 27148 STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	220058

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	03/14/25

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - COMPOSITE

AF101

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0"
1"

ELECTRICAL POWER 1ST FLOOR PLAN - AREA F
E-301F
FOR BLUEBEAM LABELING/OCR:

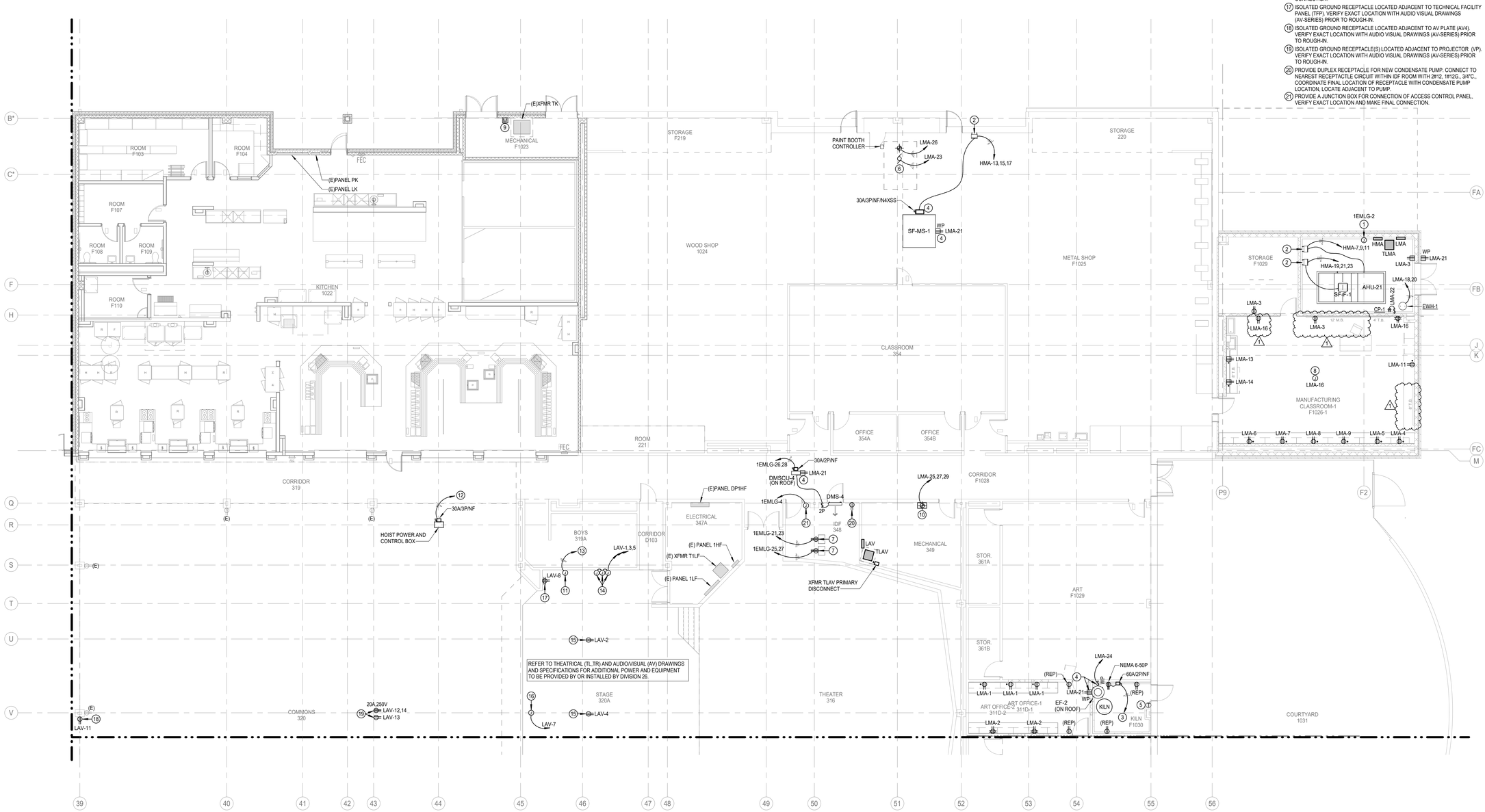
ISSUE FOR PROPOSAL

ELECTRICAL GENERAL NOTES:

1. REFER TO TECHNOLOGY SERIES DRAWINGS (T-SERIES), AUDIO/VISUAL (AV-SERIES) AND THEATRICAL (TL-SERIES) FOR ADDITIONAL WORK REQUIRED BY DIVISION 26.
2. ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN NEC 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

ELECTRICAL KEYED NOTES:

1. PROVIDE A JUNCTION BOX AT +54-INCHES FOR CONNECTION OF BMCS PANEL. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.
2. VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER, PROVIDED BY DIVISION 23, INSTALLED BY DIVISION 26.
3. CONNECT TO EXISTING CIRCUIT PRESERVED DURING DEMOLITION, EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.
4. REFER TO PEDESTAL MOUNT DETAILS FOR DISCONNECT/RECEPTACLE MOUNTING REQUIREMENTS. PEDESTAL SHALL BE LOCATED ADJACENT TO MECHANICAL EQUIPMENT.
5. LINE-VOLTAGE TIMER SWITCH PROVIDED BY DIVISION 23, INSTALLED BY DIVISION 26. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION TO FAN.
6. PRE-FABRICATED SELF CONTAINED PAINT/SPRAY BOOTH. ALL ELECTRICAL CONNECTIONS SHALL ROUTE THROUGH BOOTH CONTROL PANEL. COORDINATE CONTROL PANEL LOCATION WITH MANUFACTURER AND MAKE ALL FINAL CONNECTIONS.
7. PROVIDE NEW L6-30R RECEPTACLE MOUNTED ABOVE DATA RACK. REFER TO DETAIL FOR MORE INFORMATION.
8. PROVIDE A JUNCTION BOX FOR CONNECTION OF SOUND ENHANCEMENT SYSTEM. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.
9. PROVIDE NEW EMON METER WITH BACNET COMPATIBILITY. INSTALL ON THE PRIMARY FEEDER OF TRANSFORMER TK.
10. MOTORIZED BREAKER PANEL (MBP), PROVIDED BY THEATRICAL, INSTALLED BY DIVISION 26. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.
11. PROVIDE A JUNCTION BOX FOR CONNECTION OF RIGGING CONTROL PANEL (RCP), VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.
12. ROUTE 3#12, 1#12G., 3/4"C. TO NEW 20A/3P CIRCUIT BREAKER IN PANEL 1HF.
13. ROUTE 2#12, 1#12G., 3/4"C. TO NEW 20A/1P CIRCUIT BREAKER IN PANEL 1LF.
14. DEDICATED 120V-20A CIRCUIT. TERMINATE CIRCUIT(S) TO JUNCTION BOX AND EXTEND TO DISTRIBUTION STRIP WITHIN EQUIPMENT RACK.
15. ISOLATED GROUND RECEPTACLE LOCATED ADJACENT TO MICROPHONE PLATE (M2). VERIFY EXACT LOCATION WITH AUDIO VISUAL DRAWINGS (AV-SERIES) PRIOR TO ROUGH-IN.
16. PROVIDE A JUNCTION BOX FOR CONNECTION OF PROJECTION SCREEN. VERIFY EXACT LOCATION WITH AUDIO VISUAL DRAWINGS (AV-SERIES) AND MAKE FINAL CONNECTION.
17. ISOLATED GROUND RECEPTACLE LOCATED ADJACENT TO TECHNICAL FACILITY PANEL (TFP). VERIFY EXACT LOCATION WITH AUDIO VISUAL DRAWINGS (AV-SERIES) PRIOR TO ROUGH-IN.
18. ISOLATED GROUND RECEPTACLE LOCATED ADJACENT TO AV PLATE (AV4). VERIFY EXACT LOCATION WITH AUDIO VISUAL DRAWINGS (AV-SERIES) PRIOR TO ROUGH-IN
19. ISOLATED GROUND RECEPTACLE(S) LOCATED ADJACENT TO PROJECTOR (VP). VERIFY EXACT LOCATION WITH AUDIO VISUAL DRAWINGS (AV-SERIES) PRIOR TO ROUGH-IN.
20. PROVIDE DUPLEX RECEPTACLE FOR NEW CONDENSATE PUMP. CONNECT TO NEAREST RECEPTACTLE CIRCUIT WITHIN IDF ROOM WITH 2#12, 1#12G., 3/4"C., COORDINATE FINAL LOCATION OF RECEPTACLE WITH CONDENSATE PUMP LOCATION. LOCATE ADJACENT TO PUMP.
21. PROVIDE A JUNCTION BOX FOR CONNECTION OF ACCESS CONTROL PANEL, VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.



1 **ELECTRICAL POWER 1ST FLOOR PLAN - AREA F**
Scale: 1/8" = 1'-0"

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LANDSCAPE
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STRUCTURAL
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MEP
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FOOD SERVICE
CONSULTANT NAME
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CONSULTANT NAME
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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
Houston, TX 77084
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • BELIEVE

A B C D E F G

KEY PLAN
NORTH: PLAN TRUE

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
03/14/25

CLIENT
CFISD

DATE	PROJECT NUMBER
03/14/2025	220058

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	03.14.2025

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL POWER 1ST FLOOR PLAN - AREA F

E-301F

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0"
1"

ELECTRICAL PANEL SCHEDULES
E-502
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

Branch Panel: LFS

NEW PANEL

Location: STORAGE BUILDING... **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TLFS **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 50A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Lighting	#12	20 1	0.1 / 0.0			1	--	-- SPACE	2	--
1	3	Exterior Lighting	#12	20 1		0.2 / 0.0		1	--	-- SPACE	4	--
	5	Receptacles	#12	20 1			0.9 / 0.0	1	--	-- SPACE	6	--
	7	Motorized Damper	#12	20 1	0.4 / 0.0			1	--	-- SPACE	8	--
--	9	SPARE	--	20 1		0.0 / 0.0		1	--	-- SPACE	10	--
--	11	SPARE	--	20 1			0.0 / 0.0	1	--	-- SPACE	12	--
--	13	SPARE	--	20 1	0.0 / 0.0			1	--	-- SPACE	14	--
--	15	SPARE	--	20 1		0.0 / 0.0		1	--	-- SPACE	16	--
--	17	SPARE	--	20 1			0.0 / 0.0	1	--	-- SPACE	18	--
--	19	SPARE	--	20 1	0.0 / 0.0						20	
--	21	SPARE	--	20 1		0.0 / 0.0		3	30	-- SPDL	22	--
--	23	SPARE	--	20 1			0.0 / 0.0				24	
		Total Load:			0.5 kVA	0.2 kVA	0.9 kVA					
		Total Amps:			5 A	2 A	8 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	0.4 kVA	100.00%	0.4 kVA		
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Load:**	1.6 kVA
Miscellaneous	0.8 kVA	100.00%	0.8 kVA	**Total Est. Demand:**	1.6 kVA
Receptacles	0.4 kVA	100.00%	0.4 kVA	**Total Conn. Current:**	4 A
				Total Est. Demand...	4 A

Notes:
Control via contactor, contactor controlled via 24/7 timeclock.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: 1LH(2)

EXISTING

Location: MECHANICAL 172 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 150A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
--	1	EXIST. MTR...	--	20 1	0.0 / 0.0			1	20	-- SPARE	2	--
--	3	EXIST. HAND DRYER	--	20 1		0.0 / 0.0		1	20	-- SPARE	4	--
--	5	EXIST. HAND DRYER	--	20 1			0.0 / 0.0	1	20	-- SPARE	6	--
--	7	EXIST. HAND DRYER	--	20 1	0.0 / 0.0			1	20	-- SPARE	8	--
--	9	EXIST. HAND DRYER	--	20 1		0.0 / 0.7		**1**	**20**	**#12 Receptacles Room...**	**10**	**1**
--	11	EXIST. RECPT 171	--	20 1			0.0 / 0.9	**1**	**20**	**#12 Receptacles...**	**12**	**1**
--	13	EXIST. RECPT 171	--	20 1	0.0 / 0.0						**14**	
--	15	EXIST. RECPT 170	--	20 1		0.0 / 0.0		1	--	-- SPACE	16	--
--	17	EXIST. RECPT 170	--	20 1			0.0 / 0.0	1	--	-- SPACE	18	--
--	19	EXIST. RECPT 116	--	20 1	0.0 / 0.0			1	--	-- SPACE	20	--
--	21	EXIST. RECPT 116	--	20 1		0.0 / 0.0		1	--	-- SPACE	22	--
--	23	EXIST. RECPT 118	--	20 1			0.0 / 0.0	1	--	-- SPACE	24	--
--	25	EXIST. RECPT 118	--	20 1	0.0 / 0.0			1	--	-- SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1	--	-- SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1	--	-- SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1	--	-- SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1	--	-- SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1	--	-- SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1	--	-- SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1	--	-- SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1	--	-- SPACE	42	--
		Total Load:			0.0 kVA	0.7 kVA	0.9 kVA					
		Total Amps:			0 A	7 A	8 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Receptacles	1.6 kVA	100.00%	1.6 kVA		
				Total Conn. Load:	1.6 kVA
				Total Est. Demand:	1.6 kVA
				Total Conn. Current:	4 A
				Total Est. Demand...	4 A

Notes:
1 : ADD NEW CIRCUIT BREAKER

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: HMA

NEW PANEL

Location: MECH ROOM F1027 **Volts:** 277/480 Wye **A.I.C. Rating:** 18,000
Supply From: DP1HF **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				9.6 / 0.5			1	20	#12 Lighting	2	
	3	XFMR TLMA	1-L	50 3		9.6 / 0.0		1	20	-- SPARE	4	--
	5						8.4 / 0.0	1	20	-- SPARE	6	--
	7				0.0 / 0.0			1	20	-- SPARE	8	--
	9	AHU-1	#12	20 3		0.0 / 0.0		1	20	-- SPARE	10	--
	11						0.0 / 0.0	1	20	-- SPARE	12	--
	13				0.7 / 0.0			1	--	-- SPACE	14	--
	15	SF-MS-1	#12	20 3		0.7 / 0.0		1	--	-- SPACE	16	--
	17						0.7 / 0.0	1	--	-- SPACE	18	--
	19				0.2 / 0.0			1	--	-- SPACE	20	--
	21	HVAC MECH ROOM F1027		20 3		0.2 / 0.0		1	--	-- SPACE	22	--
	23						0.2 / 0.0	1	--	-- SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1	--	-- SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1	--	-- SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1	--	-- SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1	--	-- SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1	--	-- SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1	--	-- SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0						38	
--	39	SPACE	--	-- 1		0.0 / 0.0		3	30	-- SPDL	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0				42	
		Total Load:			11.1 kVA	10.6 kVA	9.4 kVA					
		Total Amps:			41 A	39 A	34 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	3.2 kVA	100.00%	3.2 kVA		
Lighting	0.5 kVA	125.00%	0.6 kVA	**Total Conn. Load:**	31.1 kVA
Miscellaneous	22.7 kVA	100.00%	22.7 kVA	**Total Est. Demand:**	31.2 kVA
Receptacles	4.7 kVA	100.00%	4.7 kVA	**Total Conn. Current:**	37 A
				Total Est. Demand...	38 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LMA

NEW PANEL

Location: MECH ROOM F1027 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TLMA **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 150A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles OFFICE...	#12	20 1	0.5 / 0.7			1	20	#12 Receptacles OFFICE...	2	
	3	Receptacles...	#12	20 1		0.5 / 0.2		1	20	#12 Receptacles...	4	
	5	Receptacles...	#12	20 1			0.2 / 0.2	1	20	#12 Receptacles...	6	
	7	Receptacles...	#12	20 1	0.2 / 0.2			1	20	#12 Receptacles...	8	
	9	Receptacles...	#12	20 1		0.2 / 0.0		1	20	-- SPARE	10	--
	11	Receptacles...	#12	20 1			0.2 / 0.0	1	20	-- SPARE	12	--
	13	Receptacles...	#12	20 1	0.2 / 0.2			1	20	#12 Receptacles...	14	
	15					0.5 / 0.7		1	20	#12 Receptacles...	16	
	17	Marquee Signage	#8	20 2			0.5 / 0.0				18	
	19	Rigging Control Panel	#8	20 1	0.5 / 0.0			2	30	#10 EWH-1	20	
	21	Receptacles	#8	20 1		0.7 / 0.1		1	20	#12 CP-1	22	
	23	Paint Booth Fan	#12	20 1			0.5 / 0.2	1	20	#12 EF-3	24	
	25				6.7 / 0.5			1	20	#12 Paint Booth Lgt/Recept	26	
	27	Motorized Breaker Panel (MBP)	#3	100 3		6.7 / 0.0		1	20	-- SPARE	28	--
	29						6.7 / 0.0	1	20	-- SPARE	30	--
--	31	SPARE	--	20 1	0.0 / 0.0			1	20	-- SPARE	32	--
--	33	SPARE	--	20 1		0.0 / 0.0		1	20	-- SPARE	34	--
--	35	SPARE	--	20 1			0.0 / 0.0	1	20	-- SPARE	36	--
--	37	SPARE	--	20 1	0.0 / 0.0			1	20	-- SPARE	38	--
--	39	SPARE	--	20 1		0.0 / 0.0		1	20	-- SPARE	40	--
--	41	SPARE	--	20 1			0.0 / 0.0	1	20	-- SPARE	42	--
--	43	SPARE	--	20 1	0.0 / 0.0			1	20	-- SPARE	44	--
--	45	SPARE	--	20 1		0.0 / 0.0		1	20	-- SPARE	46	--
--	47	SPARE	--	20 1			0.0 / 0.0	1	20	-- SPARE	48	--
--	49	SPARE	--	20 1	0.0 / 0.0						50	
--	51	SPARE	--	20 1		0.0 / 0.0		3	30	-- SPDL	52	--
--	53	SPARE	--	20 1			0.0 / 0.0				54	
		Total Load:			9.6 kVA	9.6 kVA	8.4 kVA					
		Total Amps:			82 A	82 A	70 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	0.3 kVA	100.00%	0.3 kVA		
Miscellaneous	22.7 kVA	100.00%	22.7 kVA	**Total Conn. Load:**	27.7 kVA
Receptacles	4.7 kVA	100.00%	4.7 kVA	**Total Est. Demand:**	27.7 kVA
				Total Conn. Current:	77 A
				Total Est. Demand...	77 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LAV

NEW PANEL

Location: MECHANICAL 349 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TLAV **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Equipment Rack	#12	20 1	0.5 / 0.2			1	20	#12 AV Receptacle	2	
	3	Equipment Rack	#12	20 1		0.5 / 0.2		1	20	#12 AV Receptacle	4	
	5	Equipment Rack	#12	20 1			0.5 / 0.2	1	20	#12 AV Receptacle	6	
	7	Projection Screen	#12	20 1	0.5 / 0.5			1	20	#12 AV Receptacle	8	
	9	AV Receptacle	#12	20 1		0.5 / 0.5		1	20	#12 AV Receptacle	10	
	11	AV Receptacle	#8	20 1			0.2 / 1.0	2	20	#12 Projector Receptacle	12	
	13	Projector Receptacle	#12	20 1	1.0 / 1.0						14	
--	15	SPACE	--	-- 1		0.0 / 0.0		1	20	-- SPARE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1	20	-- SPARE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1	20	-- SPARE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1	20	-- SPARE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1	20	-- SPARE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1	20	-- SPARE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1	20	-- SPARE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1	20	-- SPARE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1	20	-- SPARE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1	20	-- SPARE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1	20	-- SPARE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0						38	
--	39	SPACE	--	-- 1		0.0 / 0.0		3	30	-- SPDL	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0				42	
		Total Load:			3.7 kVA	1.7 kVA	1.9 kVA					
		Total Amps:			31 A	14 A	16 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Miscellaneous	6.5 kVA	100.00%	6.5 kVA		
Receptacles	0.7 kVA	100.00%	0.7 kVA	**Total Conn. Load:**	7.2 kVA
				Total Est. Demand:	7.2 kVA
				Total Conn. Current:	20 A
				Total Est. Demand...	20 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
ISOLATED GROUND BUS

PBK

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
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DATE	PROJECT NUMBER
03/14/2025	220058

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	03.14.2025

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BUILDING NUMBER

ELECTRICAL PANEL SCHEDULES

E-502

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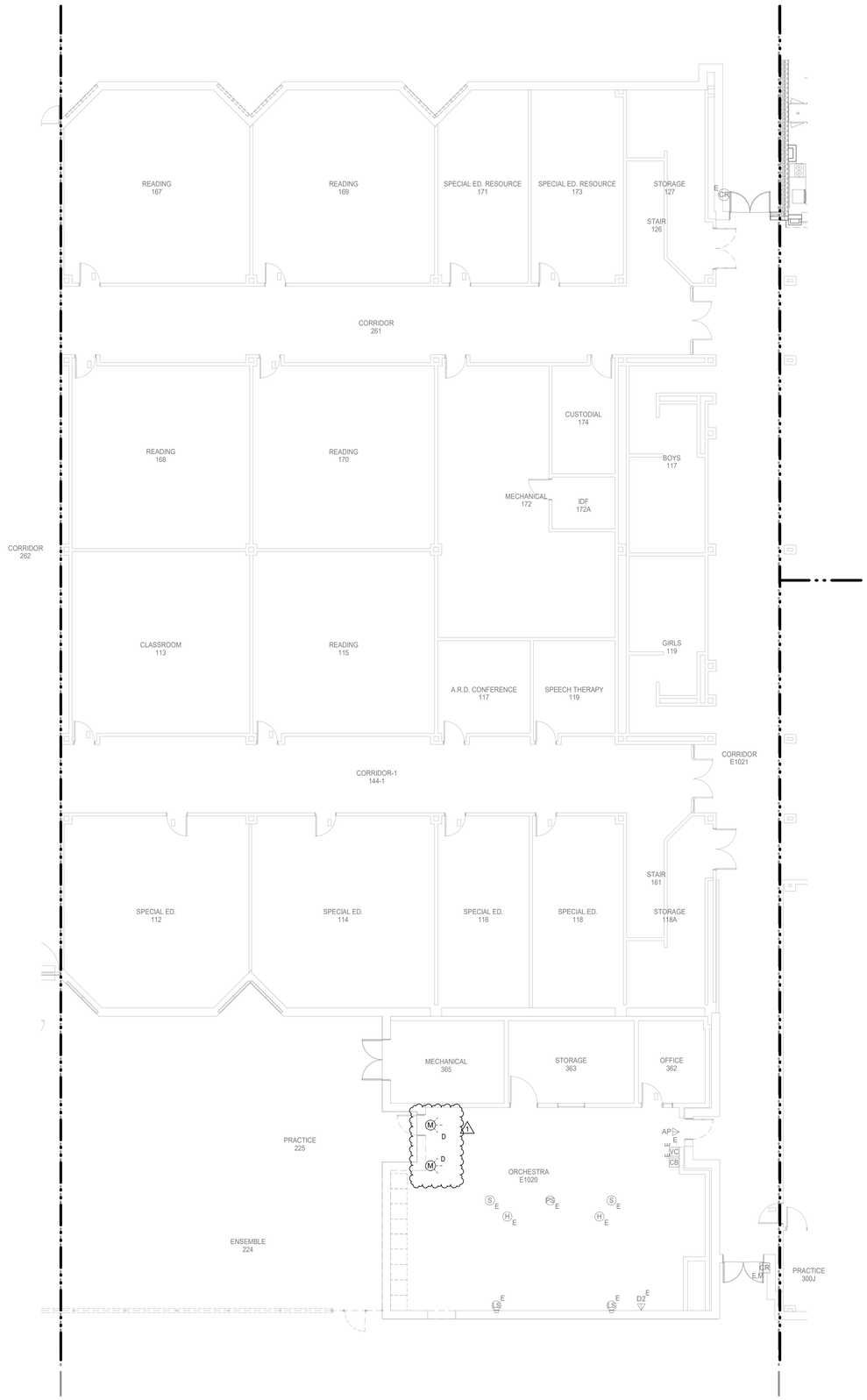

1 **TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - Area E**
Scale: 1/8" = 1'-0"

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TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA E

T-002

FOR BLUEBEAM LABELING/OCR:

0"
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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
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KEY PLAN
NORTH: PLAN TRUE

BRADLEY KALMANS
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LICENSED
ARCHITECT
03/14/25

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BUILDING NUMBER

TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA E

T-002

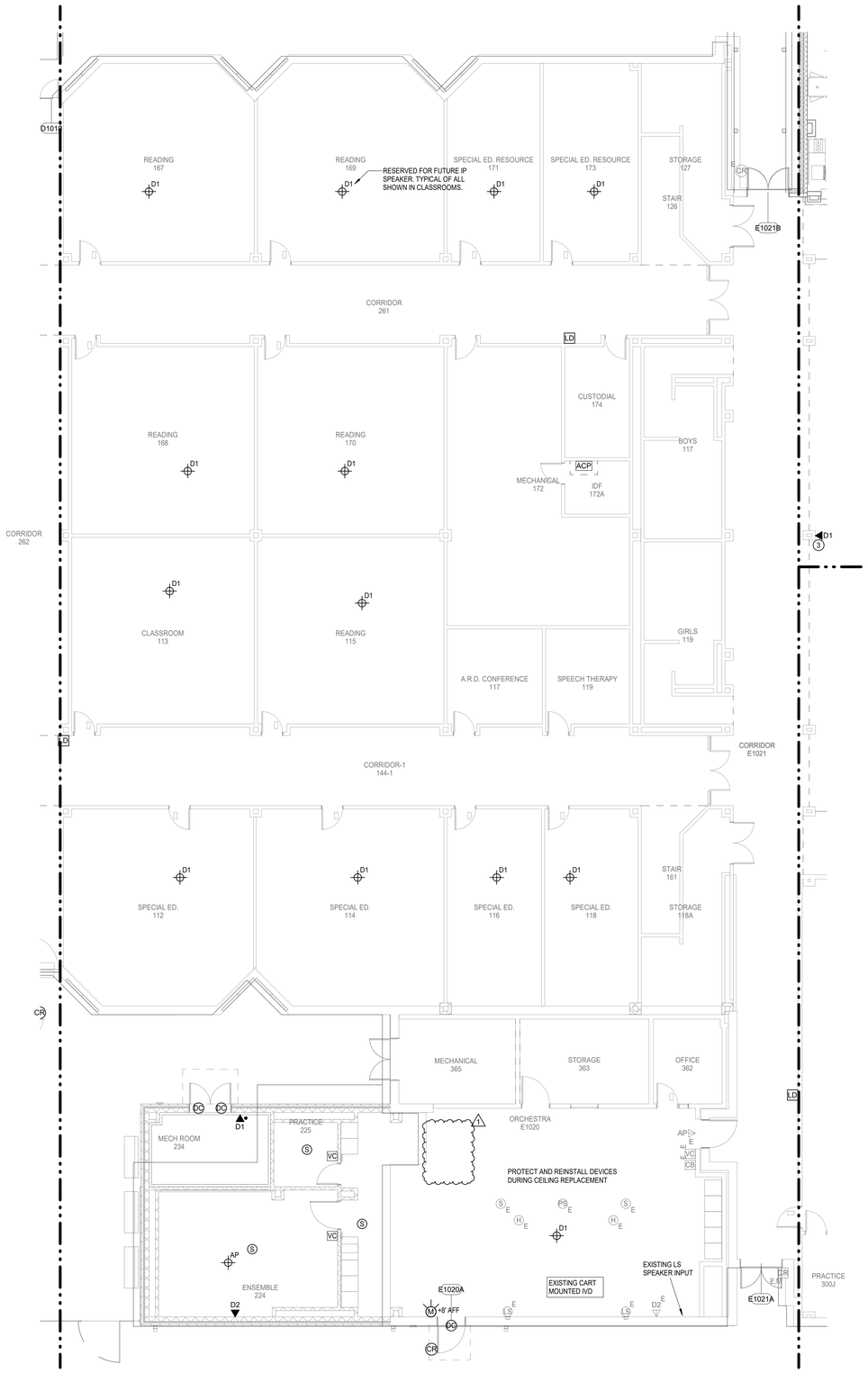
ISSUE FOR PROPOSAL

0"
1"

TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA E
T-204
FOR BLUEBEAM LABELING/OCR:

TECHNOLOGY PLAN GENERAL NOTES

A	COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
B	COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT(IF APPLICABLE) PRIOR TO ROUGH-IN.
C	REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
D	CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
E	CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
F	ALL EXISTING LOCKDOWN BUTTONS THAT ARE BEING REUSED SHALL HAVE EXISTING WIRING DEMOLISHED AND REPLACED BY CONTRACTOR WITH HOME RUNS TO HEAD END.



1 **TECHNOLOGY FLOOR PLAN - LEVEL 1 - Area E**
Scale: 1/8" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

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CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

CLIENT
CFISD

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ISSUE FOR PROPOSAL

BUILDING NUMBER

TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA E

T-204

0"
1"

TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA F
T-205
FOR BLUEBEAM LABELING/OCR:

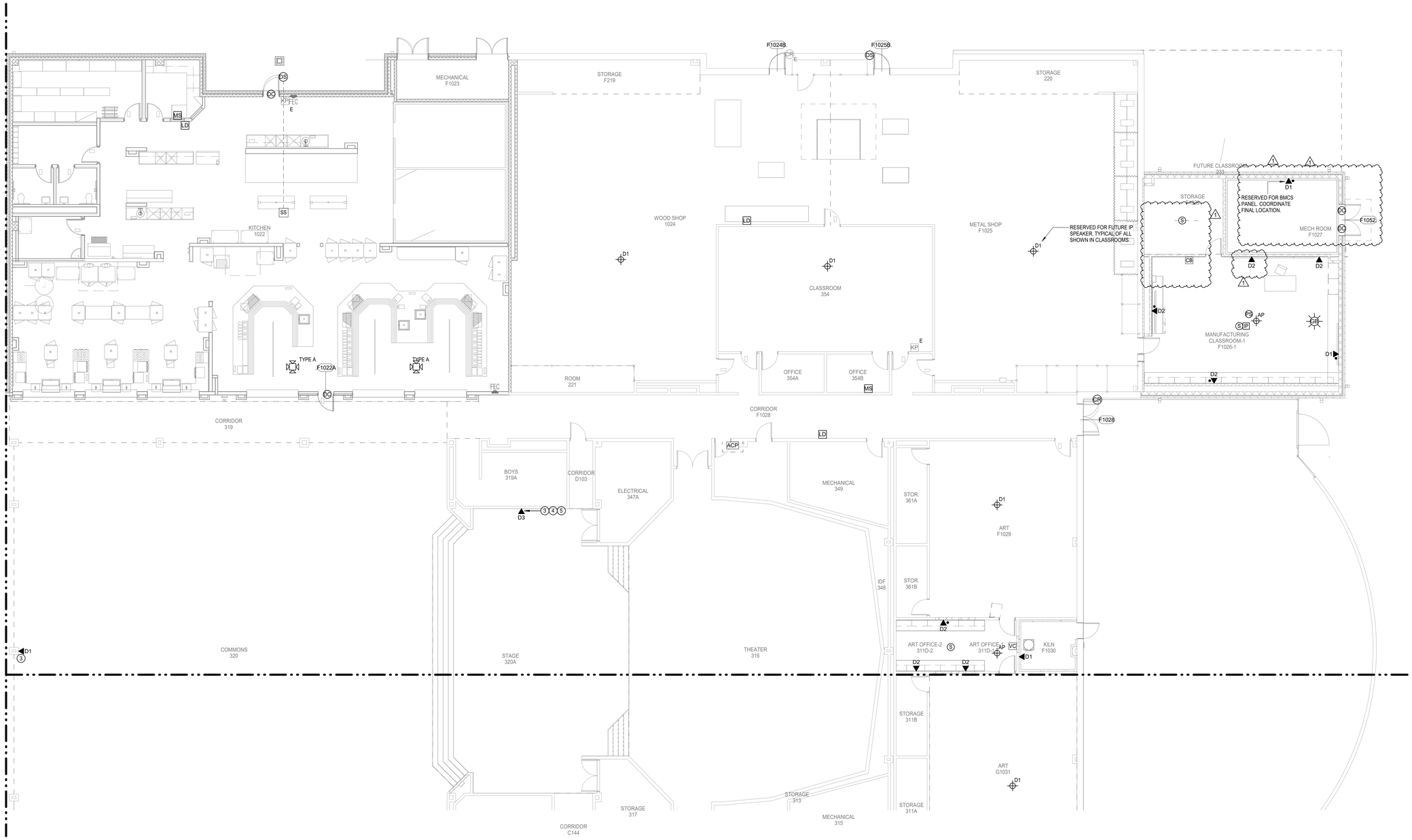
ISSUE FOR PROPOSAL

TECHNOLOGY PLAN KEYED NOTES

1	NETWORK DROP RESERVED FOR WIRELESS CONNECTION TO MARQUEE. COORDINATE FINAL LOCATION WITH BUILDING SIGNAGE. REFERENCE ELECTRICAL SITE PLAN FOR MORE INFORMATION.
2	CONTRACTOR TO PROVIDE AND INSTALL 1-2" CONDUIT CONNECTING NEW ATHLETIC STORAGE BUILDING TO EXISTING TRACTOR STORAGE BUILDING TO EXISTING INTRUSION PANEL. CONTRACTOR TO PROVIDE AND INSTALL INTRUSION WIRING TO CONNECT NEW INTRUSION DEVICES TO EXISTING INTRUSION PANEL.
3	NETWORK OUTLET RESERVED FOR AV SYSTEM DEVICES AND HEAD END RACK. COORDINATE WITH AV CONSULTANT DRAWINGS ON FINAL AV RACK LOCATION AND DEVICES.
4	FIRE ALARM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
5	INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.

TECHNOLOGY PLAN GENERAL NOTES

A	COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
B	COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT(IF APPLICABLE) PRIOR TO ROUGH-IN.
C	REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
D	CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
E	CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
F	ALL EXISTING LOCKDOWN BUTTONS THAT ARE BEING REUSED SHALL HAVE EXISTING WIRING DEMOLISHED AND REPLACED BY CONTRACTOR WITH HOME RUNS TO HEAD END.



1 **TECHNOLOGY FLOOR PLAN - LEVEL 1 - Area F**
Scale: 1/8" = 1'-0"

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SURETOR
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
T 000-000-0000

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 1

4800 Cairnvillage St.
Houston, TX 77084
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • BELIEVE

KEY PLAN
NORTH: PLAN TRUE

CLIENT
CFISD

DATE	PROJECT NUMBER
03/14/2025	220058

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	03.14.2025

ISSUE FOR PROPOSAL

BUILDING NUMBER

TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA F

T-205

ENLARGED SITE PLAN
AS401
FOR BLUEBEAM LABELING:

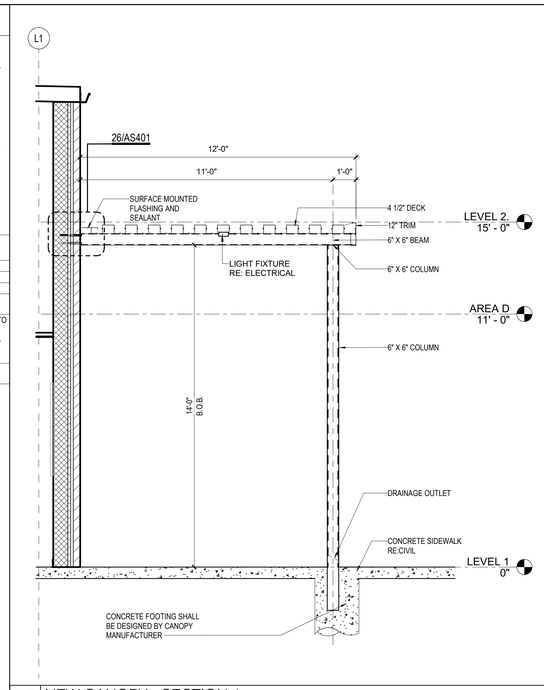
0"
1"

GENERAL ARCH SITE PLAN NOTES

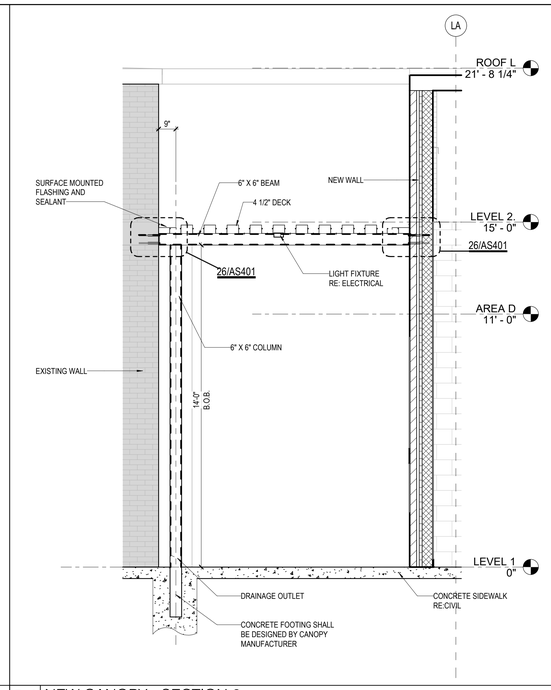
1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

KEYNOTE LEGEND

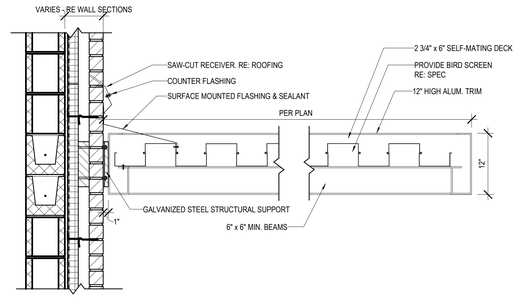
NUMBER	DESCRIPTION
02 41 00.D12	DEMOLISH EXISTING PAVING TO PREP FOR NEW ADDITION
02 41 00.D34	DEMOLISH EXISTING GRASS/SODDING. PREP TO RECEIVE NEW SIDEWALK. RE: CIVIL FOR SCOPE OF WORK
02 41 00.X13	EXISTING CANOPY, CANOPY COLUMN FOUNDATION AND LIGHT FIXTURES TO BE DEMOLISHED. SEE INDICATED EXTENTS OF DEMOLITION. DEMOLISH EXISTING FLASHING ON TOP OF CANOPY. CANOPY MANUFACTURER SHALL ADVICE ON THE DEMO EXTENTS AS NEW CANOPY SHALL TIE INTO AND MATCH THE EXISTING SYSTEM
02 41 00.X14	EXISTING 6"X6" CANOPY COLUMN & BEAM TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION



23 NEW CANOPY - SECTION 1
3/8" = 1'-0"

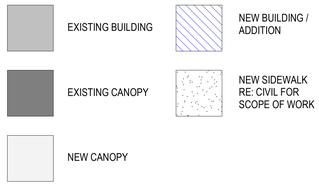


21 NEW CANOPY - SECTION 2
3/8" = 1'-0"



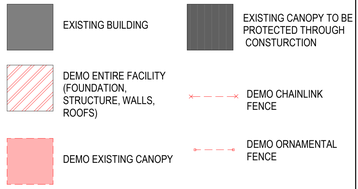
26 ALUM CANOPY DETAIL @ CMU - ATTACHED
1" = 1'-0"

ENLARGED SITE PLAN - LEGEND



20 ENLARGED SITE PLAN - LEGEND
1/8" = 1'-0"

SITE DEMOLITION PLAN LEGEND

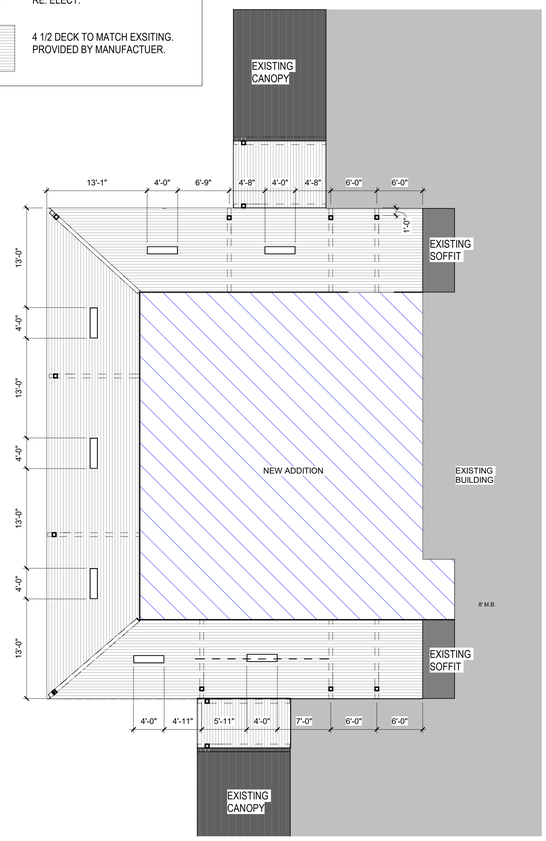


19 SITE DEMOLITION PLAN LEGEND
1/8" = 1'-0"

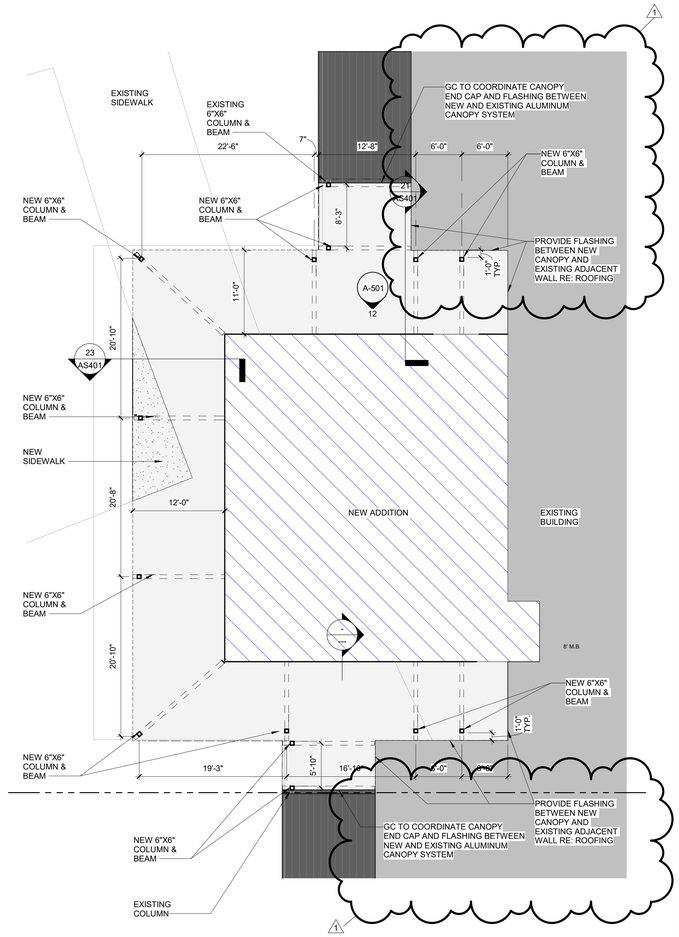
CANOPY RCP - LEGEND

LIGHT FIXTURE
RE: ELECT.

4 1/2 DECK TO MATCH EXSITING.
PROVIDED BY MANUFACTUER.



06 ENLARGED RCP PLAN - CANOPY
1/8" = 1'-0"



04 ENLARGED PLAN - CANOPY
1/8" = 1'-0"

02 ENLARGED DEMO SITE PLAN - CANOPY
1/8" = 1'-0"

ISSUE FOR PROPOSAL

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2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2
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ISSUE FOR PROPOSAL

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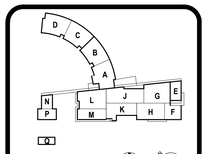


KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON D. BAIR
STATE OF TEXAS
27540
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

ENLARGED SITE PLAN

AS401

1ST FLOOR DEMOLITION PLAN - AREA D

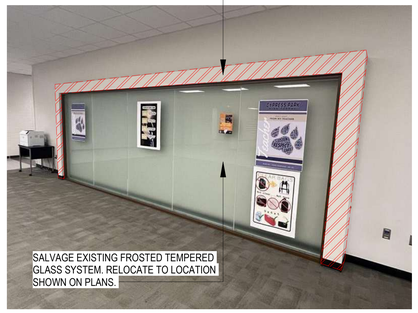
AD101D

FOR BLUEBEAM LABELING/OCR:

0"

1"

30 EXISTING PHOTOS - AREA D - EXTERIOR ELEVATION
1/2" = 1'-0"



21 EXIST. FLEX WRITING WALL
1/16" = 1'-0"

06 1ST LEVEL - DEMO FLOOR PLAN - AREA D
1" = 10'-0"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

19 GENERAL DEMOLITION NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D1	DEMOLISH EXISTING FLOORING AND BASE. PREP FLOOR TO RECEIVE NEW FLOORING. RE: FINISH PLANS FOR NEW FINISH
02 41 00.D7	DEMOLISH EXISTING DOOR AND FRAME. PATCH AND INFILL CMU WALL TO MATCH EXISTING PARTITION AND FINISH. MEW CMU TO BE TOOTHED AS REQUIRED.
02 41 00.D12	DEMOLISH EXISTING PAVING TO PREP FOR NEW ADDITION
02 41 00.D16	EXISTING SHEARWALL TO BE DEMOLISHED. GC SHALL COORD. EXTENTS OF DEMOLITION WITH ARCH. RE: STUCTURE FOR EXENTS OF SHORING
02 41 00.D18	DEMOLISH EXISTING MASONRY WALL AND PREP FOR NEW OPENING RE: SCHEDULE FOR OPENING SIZE. NEW CMU WALL TO BE TOOTH. RE: STRUCTURAL
02 41 00.D25	DEMO EXISTING MARKER BOARD AND PREP FOR NEW TYP. TEACHING WALL
02 41 00.D32	DEMOLISH EXISTING SLAB AS REQUIRED FOR TRENCHING. REFERENCE PLUMBING FOR LOCATION AND STRUCTURAL FOR ADDITIONAL DETAILS. RE: STRUCTURAL
02 41 00.D36	DEMOLISH EXISTING GYP FURROUT ENCASING GLASS SYSTEM.
02 41 00.S15	SALVAGE EXISTING COMPUTER STATION. UNINSTALL, PRESERVE, STORE, AND PROTECT FOR REINSTALLATION AT NEW LOCATION. RE: PLAN FOR NEW LOCATION.
02 41 00.X12	EXISTING CMU WALL TO BE PREPARED FOR NEW WALL - RECESSESED DISPLAY CASE. SAW CUT AS NEEDED. RE: STRUTURAL DRAWINGS
02 41 10.S10	SALVAGE EXISTING FROSTED TEMPERED GLASS SYSTEM AND BACK LIGHTING SYSTEM. RELOCATE TO LOCATION SHOWN ON PLANS.

07 KEY NOTES

EXISTING BUILDING

DEMO FLOORING - GC TO PREP TO RECEIVE NEW FINISH

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

DEMO WALL

DEMO DOOR & FRAME

DEMO WINDOW & FRAME

01 DEMOLITION PLAN LEGEND
1/8" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2

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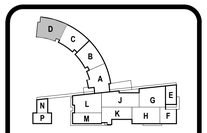


KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON G. RAY
67548
STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA D

AD101D

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.X15	EXISTING COLUMN TO REMAIN.PROTECT THROUGHOUT CONSTRUCTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

06 1ST LEVEL - FLOOR PLAN - AREA A
1" = 10'-0"

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL MINI BLINDS
2. PROVIDE CURTAIN AND TRACK SYSTEM MOUNTED TO CEILING TILE. CENTER OF TRACK TO BE 4" FROM WINDOW

FLOORPLAN LEGEND

- NOT IN CONTRACT
  *NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC
- NO RELEVANT SCOPE OF WORK IN EXISTING AREAS
- EXISTING DOOR NOT IN CONTRACT
- DOOR IN SCOPE
- EXISTING WINDOW NOT IN CONTRACT
- WINDOW IN SCOPE

20 FLOOR PLAN LEGEND
1/8" = 1'-0"

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE ___M6____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE ___M6____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

19 GENERAL ARCH PLAN NOTES

NEW WINDOW SCHEDULE - 1ST LEVEL - AREA A

WT	SIZE WIDTH	SIZE HEIGHT	SILL HEIGHT	ELEVATION	MATERIAL	FINISH	FIRE RATING	STC	GLAZING TYPE	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	REMARKS
A1303	6' - 0"	6' - 0"	3' - 0"	01/A-501	ALUM	PT							1

NEW DOOR SCHEDULE - 1ST FLOOR - AREA A

WT	PANEL SIZE W x H WIDTH	PANEL SIZE W x H HEIGHT	PANEL TYPE	PANEL FINISH	FRAME MATL	FRAME FINISH	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	GENERAL FIRE RATING	GENERAL REMARKS
A1103B.	3' - 0"	6' - 10"	NV-1	PL-1	HM	PT	18/A-811	12/A-811	06/A-811		
A1133.	3' - 0"	6' - 9 1/2"	HG-2	ALUM	ALUM	ALUM	14/A-811	08/A-811	02/A-811		CARD READER
Grand total: 2											

EXISTING DOOR SCHEDULE - 1ST FLOOR - AREA A

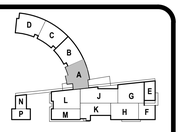
NUMBER	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL THK	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAIL JAMB	DETAIL HEAD	DETAIL SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
A1100A	6' - 0"	7' - 5"		1 3/4"	EXIST.		EXIST.									2N
A1105B	7' - 9"	7' - 3"		1 3/4"	EXIST.		EXIST.									CARD READER
A1105K	3' - 3"	7' - 0"	HG-2	1 3/4"	EXIST.	EXIS T.	EXIST.	<By Category>								CARD READER
A1105L	3' - 3"	7' - 0"		1 3/4"	<By Category>	EXIS T.										
A1106	3' - 0"	6' - 10"		2"	EXIST.		EXIST.									
A1108	3' - 0"	6' - 10"		2"	EXIST.		EXIST.									
A1111	3' - 0"	6' - 10"		2"	EXIST.		EXIST.									
A1112	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1113	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1114	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1115	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1116A	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1124	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1131	3' - 0"	6' - 10"		2"	EXIST.		EXIST.									
A1132	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1133	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1134	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1135	3' - 0"	6' - 10"		2"	EXIST.		EXIST.									
A1135A	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1136A	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1137	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1138A	4' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1139	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1149	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1150	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1152A	6' - 5"	6' - 9"		1 3/4"	EXIST.		EXIST.									
A1155	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1162	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
A1163	3' - 0"	6' - 10"		1 3/4"	EXIST.		EXIST.									
Grand total: 29																

03 DOOR & WINDOW SCHEDULES

PBK
ARCHITECT PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608
CIVIL
BROOKS & SPARKS
T 281-578-9988
STRUCTURAL
KUBALA ENGINEERS
T 713-840-3343
MEP/FP
SALAS O'BRIEN
T 281-484-1900
ENVELOPE CONSULTANT
BEAN
T 713-940-3201
ABATEMENT
BYLOGICAL
T 832-518-5145

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2
7425 Westgreen Blvd
Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
RAYMOND G. ROSS
STATE OF TEXAS
03/10/2025

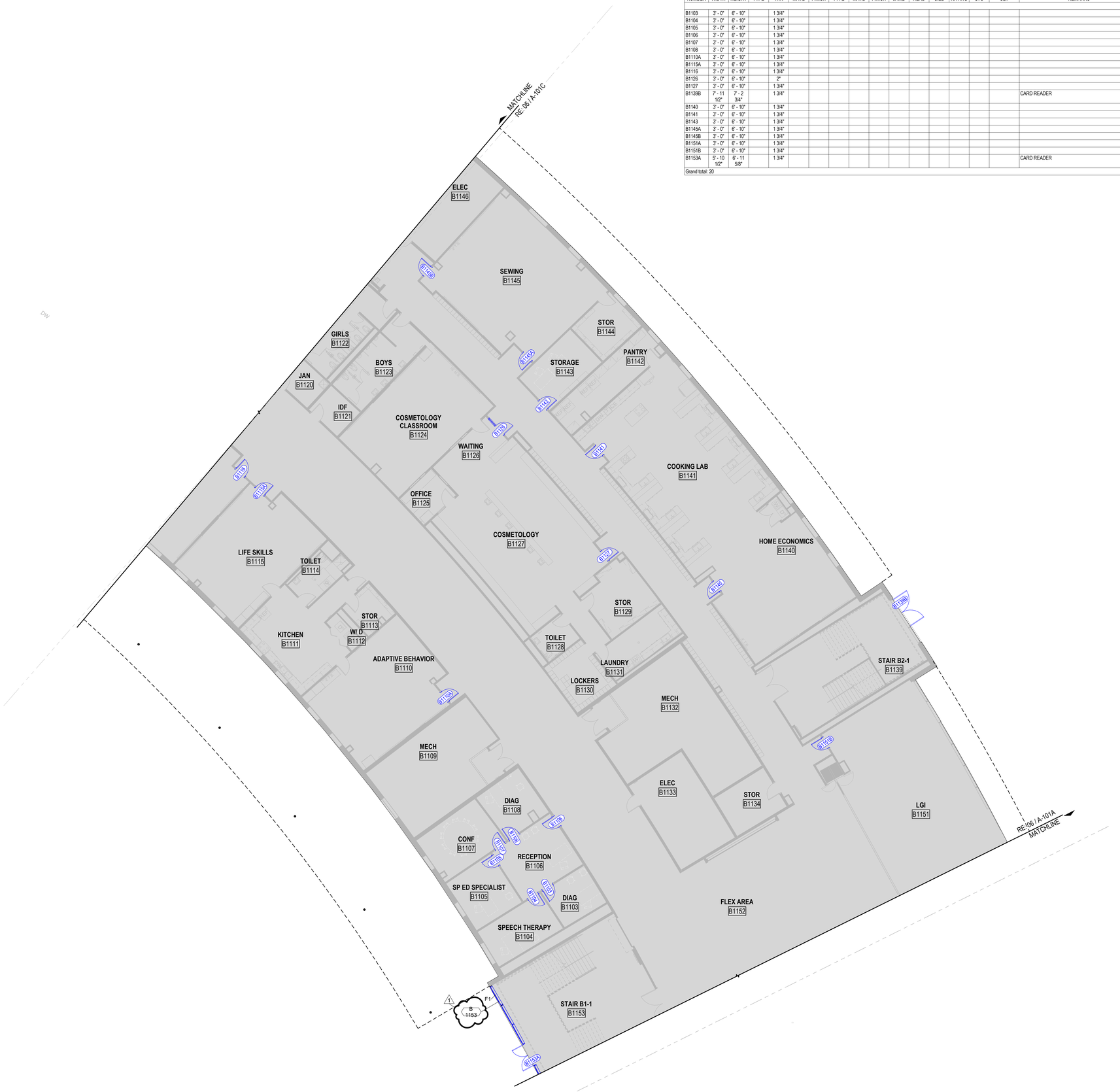
CLIENT
CFISD
DATE 03/10/2025
PROJECT NUMBER 240059
DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA A

A-101A



06 1ST LEVEL - FLOOR PLAN - AREA B
1" = 10'-0"

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA B

DOOR			PANEL				FRAME			DETAIL			FIRE		HARDWARE	GENERAL
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
B1103	3' - 0"	6' - 10"		1 3/4"												
B1104	3' - 0"	6' - 10"		1 3/4"												
B1105	3' - 0"	6' - 10"		1 3/4"												
B1106	3' - 0"	6' - 10"		1 3/4"												
B1107	3' - 0"	6' - 10"		1 3/4"												
B1108	3' - 0"	6' - 10"		1 3/4"												
B1110A	3' - 0"	6' - 10"		1 3/4"												
B1115A	3' - 0"	6' - 10"		1 3/4"												
B1116	3' - 0"	6' - 10"		1 3/4"												
B1126	3' - 0"	6' - 10"		2"												
B1127	3' - 0"	6' - 10"		1 3/4"												
B1139B	7' - 11 1/2"	7' - 2 3/4"		1 3/4"												CARD READER
B1140	3' - 0"	6' - 10"		1 3/4"												
B1141	3' - 0"	6' - 10"		1 3/4"												
B1143	3' - 0"	6' - 10"		1 3/4"												
B1145A	3' - 0"	6' - 10"		1 3/4"												
B1145B	3' - 0"	6' - 10"		1 3/4"												
B1151A	3' - 0"	6' - 10"		1 3/4"												
B1151B	3' - 0"	6' - 10"		1 3/4"												
B1153A	5' - 10 1/2"	6' - 11 5/8"		1 3/4"												CARD READER
Grand total: 20																

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2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE ___M6___ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE _M6_____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

19 GENERAL ARCH PLAN NOTES

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

13 DOOR SCHEDULE REMARKS

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
*NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

EXISTING DOOR NOT IN CONTRACT

DOOR IN SCOPE

EXISTING WINDOW NOT IN CONTRACT

WINDOW IN SCOPE

01 FLOOR PLAN LEGEND
1/8" = 1'-0"

PBK
ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-579-9988

STRUCTURAL
KUBALA ENGINEERS
T 713-840-3343

MEP
SALAS O'BRIEN
T 281-484-1100

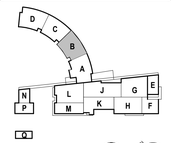
ENVELOPE CONSULANT
BEAM
T 713-940-3701

ABATEMENT
832-918-0148
T 281-813-8818

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON D. WARE
87549
STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

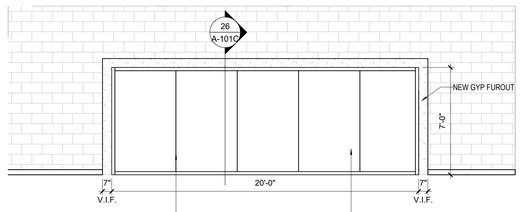
ISSUE FOR PROPOSAL

BUILDING NUMBER

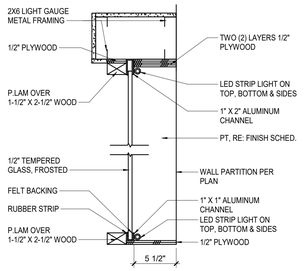
1ST FLOOR PLAN & SCHEDULES - AREA B

A-101B

06 1ST LEVEL - FLOOR PLAN - AREA C
1" = 10'-0"



28 TYP. FLEX WRITING WALL - RELOCATED
1/4" = 1'-0"



26 WRITING WALL DETAIL
1 1/2" = 1'-0"

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA C

	DOOR			PANEL				FRAME									GENERAL
											DETAIL			FIRE		HARDWARE	
NUMBER	WIDTH	HEIGHT		TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
C1100A	3' - 0"	6' - 10"			1 3/4"												
C1101A	3' - 0"	6' - 10"			1 3/4"												
C1101C	3' - 0"	6' - 10"			1 3/4"												NEW CARD READER
C1104B	3' - 0"	6' - 10"			1 3/4"												NEW CARD READER
C1110A	3' - 0"	6' - 10"			1 3/4"												
C1110B	3' - 0"	6' - 10"			1 3/4"												NEW CARD READER
C1111B	3' - 0"	6' - 10"			1 3/4"												NEW CARD READER
C1111C	3' - 0"	6' - 10"			1 3/4"												
C1113	3' - 0"	6' - 10"			1 3/4"												
C1124	3' - 0"	6' - 10"			1 3/4"												
C1125A	3' - 0"	6' - 10"			1 3/4"												
C1126A	3' - 0"	6' - 10"			1 3/4"												
C1126B	3' - 0"	6' - 10"			1 3/4"												
C1128	3' - 0 3/4"	7' - 0 3/4"															
C1128A	2' - 10 5/8"	6' - 10 7/8"															
C1130A	3' - 0"	6' - 10"			1 3/4"												
C1130B	3' - 0"	6' - 10"			1 3/4"												
C1131A	3' - 0"	6' - 10"			1 3/4"												
C1131B	3' - 0"	6' - 10"			1 3/4"												
C1132A	3' - 0"	6' - 10"			1 3/4"												
C1132B	3' - 0"	6' - 10"			1 3/4"												
C1137B	8' - 1"	6' - 9 1/4"			1 3/4"												CARD READER
C1139	7' - 2 5/8"	7' - 2 3/4"			1 3/4"												REPLACE CARD READER
Grand total: 23																	

19 GENERAL ARCH PLAN NOTES

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9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE __M6_____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE __M6_____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

13 DOOR SCHEDULE REMARKS

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
*NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

EXISTING DOOR NOT IN CONTRACT

DOOR IN SCOPE

EXISTING WINDOW NOT IN CONTRACT

WINDOW IN SCOPE

01 FLOOR PLAN LEGEND
1/8" = 1'-0"

PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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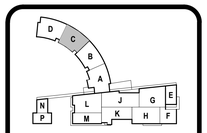
STRUCTURAL
KUBALA ENGINEERS
T 713-840-3343
MEP
SAM O'BRIEN
T 281-484-1100
ENVELOPE CONSULTANT
BEAM
T 713-940-3701
ABATEMENT
833-918-6348
T 281-813-8818

2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON D. BRAY
STATE OF TEXAS
27548

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA C

A-101C

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt
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3/14/2025 9:57:45 AM

0"
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1ST FLOOR PLAN & SCHEDULES - AREA D
A-101D
FOR BLUEBEAM LABELING/OOR:

ISSUE FOR PROPOSAL

FINISH SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

REMARKS:

1. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL MINI BLINDS
2. PROVIDE CURTAIN AND TRACK SYSTEM MOUNTED TO CEILING TILE. CENTER OF TRACK TO BE 4" FROM WINDOW

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA D

DOOR			PANEL				FRAME									GENERAL
										DETAIL			FIRE		HARDWARE	
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
D1103	3' - 0"	6' - 10"		1 3/4"												
D1104A	3' - 0"	6' - 10"		1 3/4"												
D1104B	3' - 0"	6' - 10"		1 3/4"												
D1106	3' - 0"	6' - 10"		1 3/4"												
D1110A	3' - 0"	6' - 10"		1 3/4"												
D1110B	3' - 0"	6' - 10"		1 3/4"												
D1115	6' - 3"	6' - 11"		1 3/4"												CARD READER
D1121A	4' - 0"	6' - 10"		1 3/4"												
D1121B	4' - 0"	6' - 10"		1 3/4"												NEW CARD READER
D1137A	3' - 0"	6' - 10"		1 3/4"												
D1137B	3' - 0"	6' - 10"		1 3/4"												
D1139B	8' - 0"	7' - 3"		1 3/4"												CARD READER
D1140A	3' - 0"	6' - 10"		1 3/4"												
D1140B	3' - 0"	6' - 10"		1 3/4"												
D1143A	3' - 0"	6' - 10"		1 3/4"												
D1143B	3' - 0"	6' - 10"		1 3/4"												
D1145A	4' - 0"	6' - 10"		1 3/4"												
D1145B	4' - 0"	6' - 10"		1 3/4"												NEW CARD READER
D1146A	5' - 10"	7' - 0"		1 3/4"												CARD READER

Grand total: 19

NEW DOOR SCHEDULE - 1ST FLOOR - AREA D

PANEL				FRAME						
	SIZE W x H						DETAIL			
WT	WIDTH	HEIGHT	TYPE	FINISH	MATL	FINISH	JAMB	HEAD	SILL	FIRE RATING	GENERAL REMARKS
D1158.	4' - 0"	6' - 10"	F	PL-1	HM	PT	07/A-811	13/A-811	01/A-811		
D1294A.	3' - 0"	6' - 10"	NV-1	PL-1	HM	PT	07/A-811	13/A-811	01/A-811		
D1294B.	3' - 0"	6' - 10"	NV-1	PL-1	HM	PT	07/A-811	13/A-811	01/A-811		
D1294C.	26' - 3 1/8"										FOLDABLE PARTITION
D1300.	3' - 0"	6' - 10"	NV-1	PL-1	HM	PT	07/A-811	13/A-811	01/A-811		
D1301.	3' - 0"	6' - 10"	NV-1	PL-1	HM	PT	07/A-811	13/A-811	01/A-811		
D1340.	3' - 0"	6' - 10"	F	ALUM	ALUM	ALUM	09/A-811	15/A-811	03/A-811		NEW CARD READER

Grand total: 7

WALL FINISH SCHEDULE - 1ST LEVEL AREA D

ROOM DATA		BASE	WALL FINISHES			
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST
D1103	ART	RB1	P2	P3	P2	P2
D1104	DIGITAL ART	RB1	P3	P2	P2	P2
D1158	JAN	RB1	P2	P2	P2	P2
D1294	BUSINESS COMPUTER	RB1	P2	P3	P2	P2
D1300	STORAGE	RB1	P2	P2	P2	P2
D1301	STOR	RB1	P2	P2	P2	P2

NEW WINDOW SCHEDULE - 1ST LEVEL - AREA D

	SIZE								DETAILS			
wt	WIDTH	HEIGHT	SILL HEIGHT	ELEVATION	MATERIAL	FINISH	FIRE RATING	STC	GLAZING TYPE	JAMB	HEAD	SILL	REMARKS
D1103a	4' - 0"	6' - 0"	3' - 0"	21/A-811	ALUM	PT			GL0	11/A-811	17/A-811	05/A-811	1
D1103b	4' - 0"	6' - 0"	3' - 0"	21/A-811	ALUM	PT			GL0	11/A-811	17/A-811	05/A-811	1
D1294	13' - 0"	6' - 0"	2' - 9"	26/A-521	ALUM	ALUM			GL4	10/A-811	16/A-811	04/A-811	2
D1300a	4' - 0"	6' - 0"	3' - 0"	21/A-811	ALUM	PT			GL0	11/A-811	17/A-811	05/A-811	1
D1300b	4' - 0"	6' - 0"	3' - 0"	21/A-811	ALUM	PT			GL0	11/A-811	17/A-811	05/A-811	1
D1301	4' - 0"	6' - 0"	3' - 0"	21/A-811	ALUM	PT			GL0	11/A-811	17/A-811	05/A-811	1

06 1ST LEVEL - FLOOR PLAN - AREA D
1" = 10'-0"

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2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE ___M6_____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE _M6_____ U.N.O.
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12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

19 GENERAL ARCH PLAN NOTES

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
10 12 00.DCR	RECESSED DISPLAY CASE, 10'-0" W X 4'-0" H X 14" D, RE: 19/A-841
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
*NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

EXISTING DOOR NOT IN CONTRACT

DOOR IN SCOPE

EXISTING WINDOW NOT IN CONTRACT

WINDOW IN SCOPE

01 FLOOR PLAN LEGEND
1/8" = 1'-0"

PBK

ARCHITECT
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PBK.com
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TX Firm: BR 1608

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SALAS O'BRIEN
T 281-484-1900

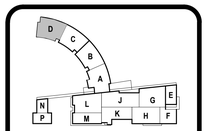
ENVELOPE CONSULTANT
BEAM
T 713-940-3701

ABATEMENT
833-918-0148
T 281-813-8818

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
JAMES ROBERT WATKINS
97148
STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA D

A-101D

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt
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Author
Plot Stamp:
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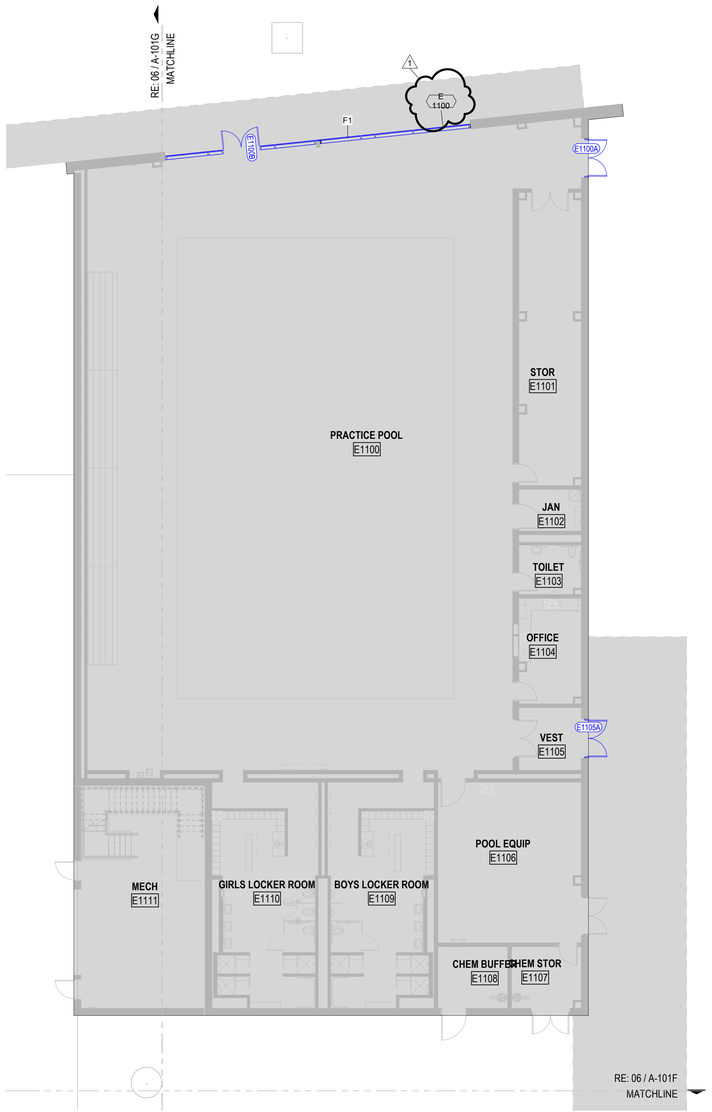
1ST FLOOR PLAN & SCHEDULES - AREA E
A-101E
FOR BLUEBEAM LABELING/OOR:

ISSUE FOR PROPOSAL

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA E

DOOR			PANEL				FRAME			DETAIL			FIRE		HARDWARE	GENERAL
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	REMARKS
E1100A	6' - 0"	7' - 0"		2"												NEW CARD READER
E1100B	6' - 0"	6' - 10"		1 3/4"												NEW CARD READER
E1105A	6' - 0"	7' - 0"		2"												NEW CARD READER
Grand total: 3																



06 1ST LEVEL - FLOOR PLAN - AREA E
1" = 10'-0"

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19 GENERAL ARCH PLAN NOTES

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
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5. DOOR BUZZER
6. DOOR CHIME ON OPEN
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8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
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OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

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14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

13 DOOR SCHEDULE REMARKS

KEYNOTE LEGEND

NUMBER	DESCRIPTION
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07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
*NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

EXISTING DOOR NOT IN CONTRACT

DOOR IN SCOPE

EXISTING WINDOW NOT IN CONTRACT

WINDOW IN SCOPE

01 FLOOR PLAN LEGEND
1/8" = 1'-0"

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ABATEMENT
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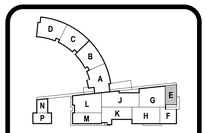
2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON G. RAY
STATE OF TEXAS
27548
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA E

A-101E

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt

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Author
Plot Stamp:
3/14/2025 9:57:57 AM

0"
1"

1ST FLOOR PLAN & SCHEDULES - AREA N
A-101N
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA N

DOOR			PANEL				FRAME						GENERAL			
										DETAIL			FIRE		HARDWARE	
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	RATING	STC	SET	Comments
N1100A	6' - 0"	6' - 10 3/4"		1 3/4"												-
N1100B	6' - 1 1/2"	6' - 10 3/4"		1 3/4"												KEEP EXISTING CARD READER.
N1100C	6' - 0 3/8"	7' - 0"		1 3/4"												KEEP EXISTING CARD READER.
R101B	6' - 0"	7' - 0"		1 3/4"												KEEP EXISTING CARD READER.
R101E	4' - 0"	6' - 10"		1 3/4"												CARD READER.
Grand total: 5																

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

FLOORPLAN LEGEND

NOT IN CONTRACT
*NOTE: DOOR HW RELATED SCOPE OF WORK TO OCCUR WHERE NOTED, RE: SPEC

NO RELEVANT SCOPE OF WORK IN EXISTING AREAS

EXISTING DOOR NOT IN CONTRACT

DOOR IN SCOPE

EXISTING WINDOW NOT IN CONTRACT

WINDOW IN SCOPE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
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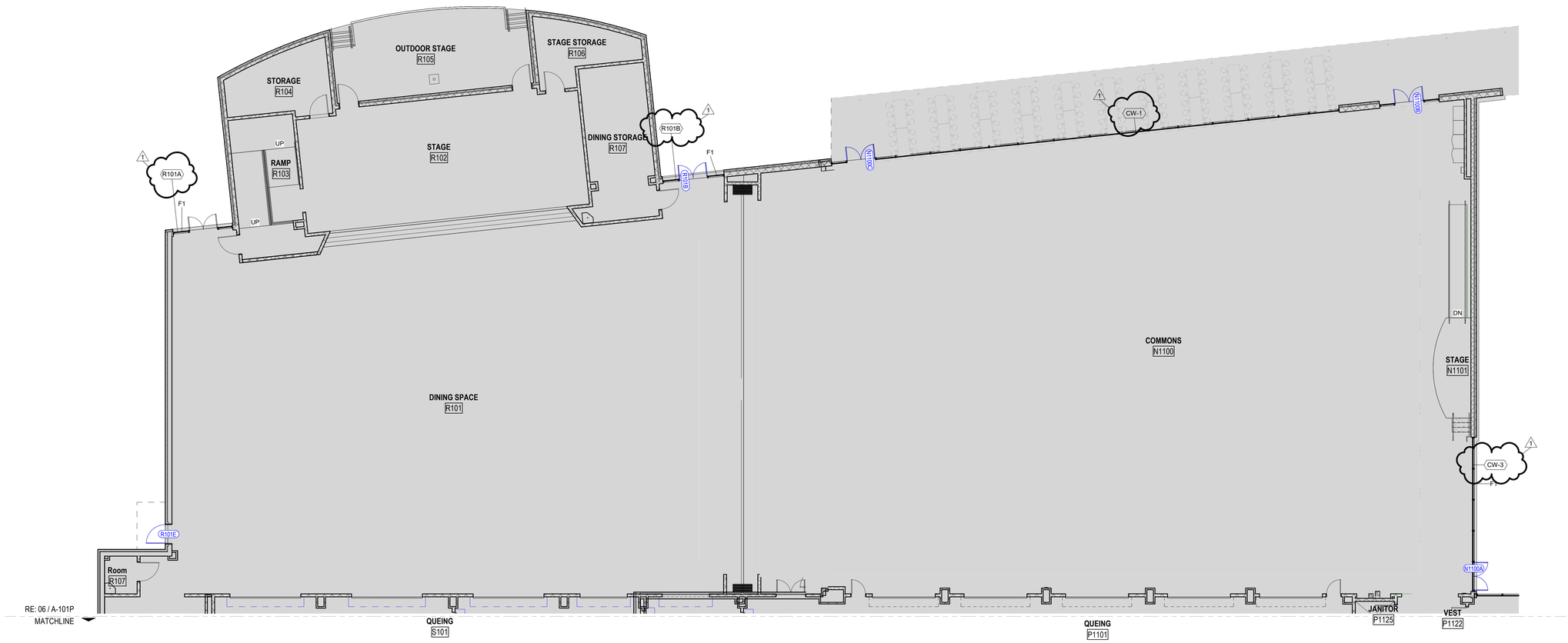
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE ___M6____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE ___M6____ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK



27 FLOOR PLAN LEGEND
1/8" = 1'-0"

26 KEY NOTES

19 GENERAL ARCH PLAN NOTES

06 1ST LEVEL - FLOOR PLAN - AREA N
1" = 10'-0"

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
ROBINSON IV, ROBERT
STATE OF TEXAS
27548
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA N

A-101N

0"
1"

1ST FLOOR PLAN & SCHEDULES - AREA P

A-101P

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

EXISTING DOOR SCHEDULE - FIRST FLOOR - AREA P

DOOR			PANEL		PANEL			FRAME						GENERAL			
											DETAIL						
NUMBER	WIDTH	HEIGHT	TYPE	Phase Created	THK	MATL	FINISH	TYPE	MATL	FINISH	JAMB	HEAD	SILL	FIRE RATING	STC	HARDWARE SET	Comments
P1103	4' - 0"	6' - 10"		Existing	1 3/4"												NEW DOOR/2N.
P1114	4' - 0"	6' - 10"		Existing	1 3/4"												-
P1117	4' - 0"	6' - 10"		Existing	1 3/4"												-
P1121	6' - 0"	6' - 10 3/4"		Existing	1 3/4"												-
P1122	6' - 0"	7' - 0"		Existing	2"												-
Grand total: 5																	

28 KEY NOTES

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
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1/8" = 1'-0"

FLOORPLAN LEGEND

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DOOR IN SCOPE

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WINDOW IN SCOPE

26 KEY NOTES

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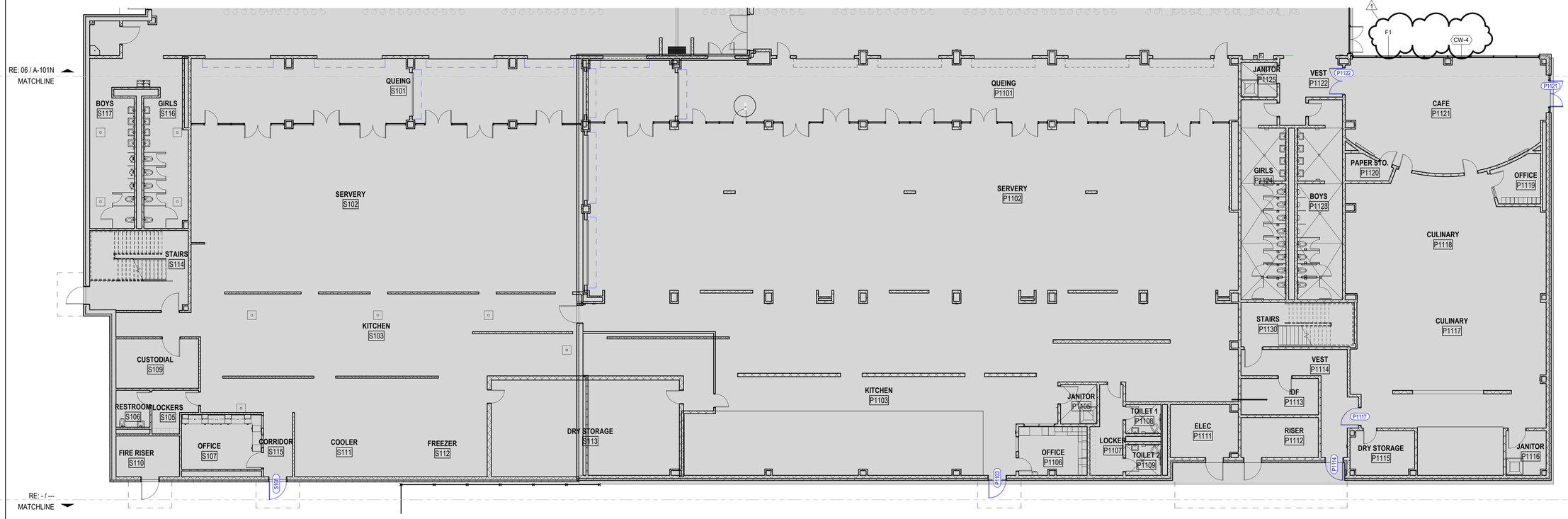

06 1ST LEVEL - FLOOR PLAN - AREA P

1" = 10'-0"

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ISSUE FOR PROPOSAL

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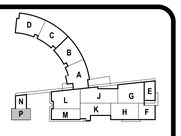


KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON G. PAGE
STATE OF TEXAS
27148
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN & SCHEDULES - AREA P

A-101P

0"
1"

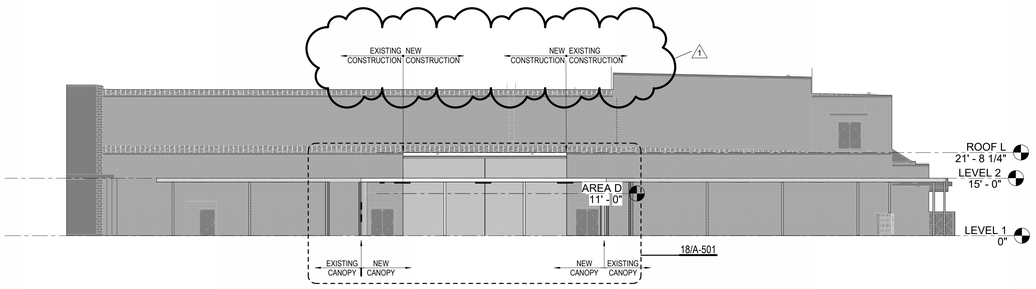
EXTERIOR ELEVATIONS - COMPOSITE & ENLARGED

A-501

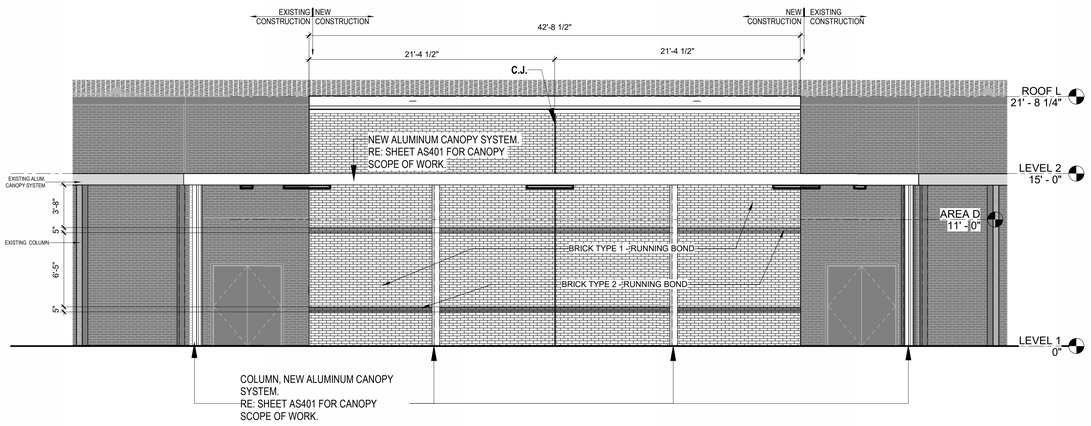
FOR BLUEBEAM LABELING.OCR:

ISSUE FOR PROPOSAL

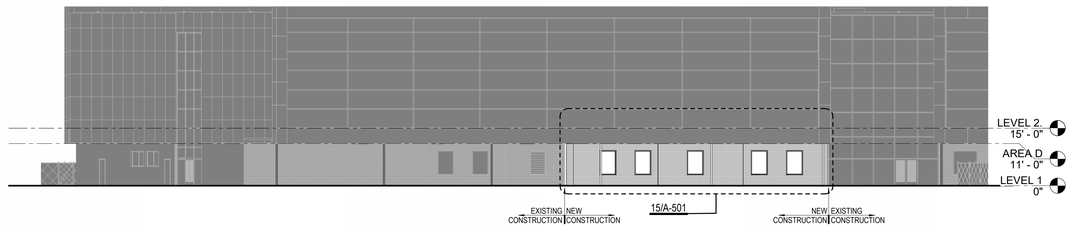
AREA L - ORCHESTRA ADDITION - EXTERIOR ELEVATIONS



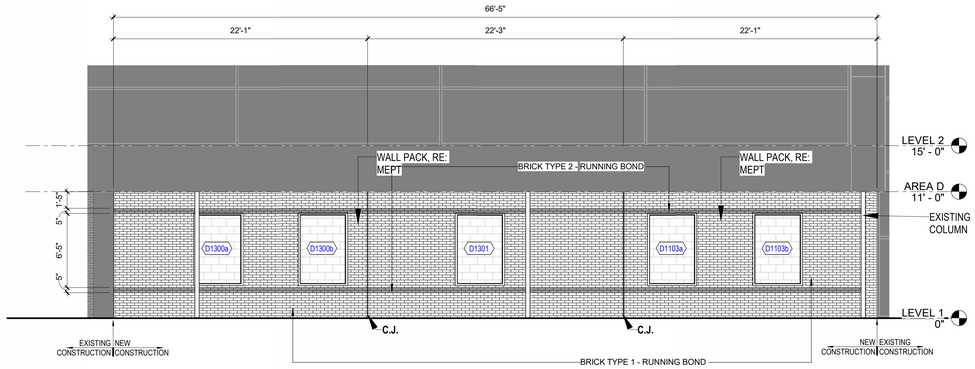
30 COMPOSITE EXTERIOR ELEVATION - ORCHESTRA ADDITION
1/16" = 1'-0"



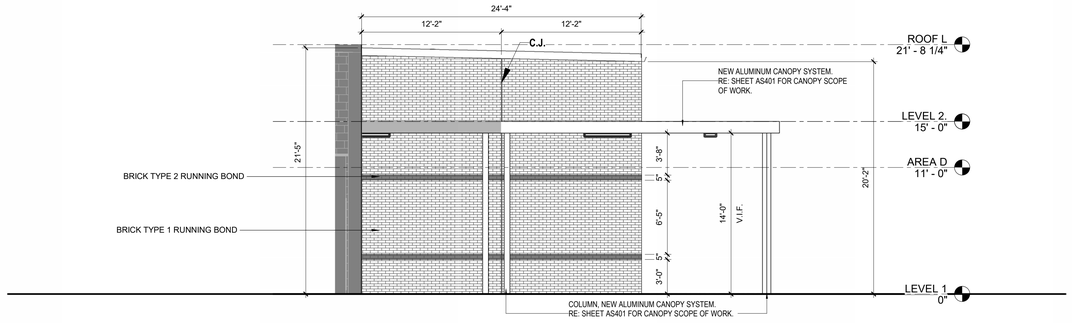
AREA D - DIGITAL ART & ART ROOM ADDITION - EXTERIOR ELEVATIONS



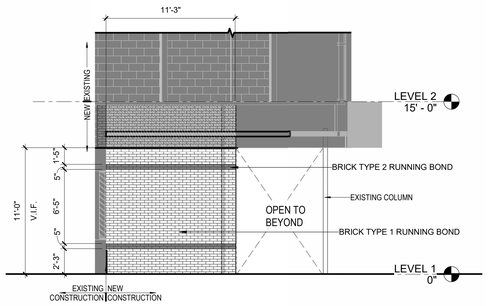
24 EXTERIOR ELEVATION - ART ADDITION
1/16" = 1'-0"



18 ENLARGED EXTERIOR ELEVATION - ORCHESTRA ADDITON (FRONT)
3/16" = 1'-0"



15 ENLARGED EXTERIOR ELEVATION - ART ADDITION (FRONT)
3/16" = 1'-0"



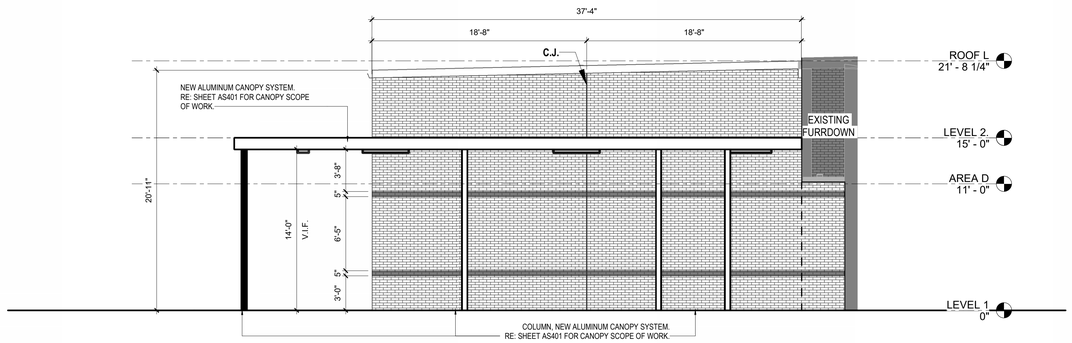
EXTERIOR MATERIALS LEGEND

- **04 20 00.BK1 (R)** BRICK TYPE 1, RUNNING BOND
- **04 20 00.BK2 (R)** BRICK TYPE 2, RUNNING BOND
- NOT IN SCOPE

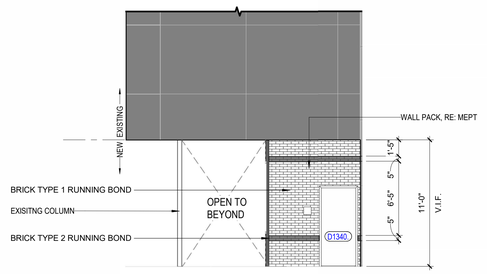
GLAZING MATERIALS LEGEND

GL0	1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1
GL1	LAMINATED GLAZING SAFETY GLAZING
GL2	9/16" CHILDGUARD GLASS
GL3	1/4" CLEAR TEMPERED GLASS
GL4	3/8" CHILDGUARD GLASS

12 ENLARGED EXTERIOR ELEVATION - ORCHESTRA ADDITON (NORTH)
3/16" = 1'-0"

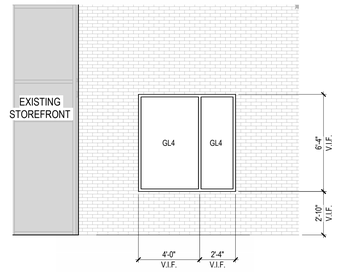


09 ENLARGED EXTERIOR ELEVATION - ART ADDITION (WEST)
3/16" = 1'-0"



07 EXTERIOR & GLAZING MATERIALS - LEGENDS
1/8" = 1'-0"

01 AREA A - EXT. ELEV. - WINDOW (TYPE 2)
1/4" = 1'-0"



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STRUCTURAL
KUBALA ENGINEERS
T 713-840-1042

MEP
SAAB O'BRIEN
T 281-484-1900

ENVELOPE CONSULTANT
BEAM
T 713-940-3001

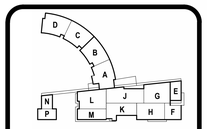
ABATEMENT
EFI GLOBAL
T 832-518-5145

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
BRANDON D. SMITH
STATE OF TEXAS
27140

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

EXTERIOR ELEVATIONS - COMPOSITE & ENLARGED

A-501

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt

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Checker
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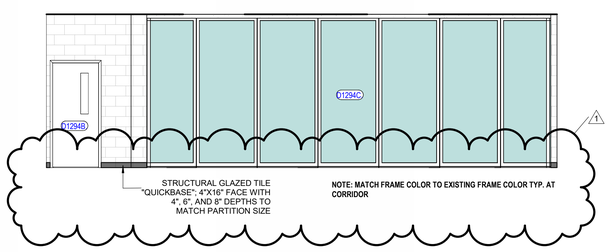
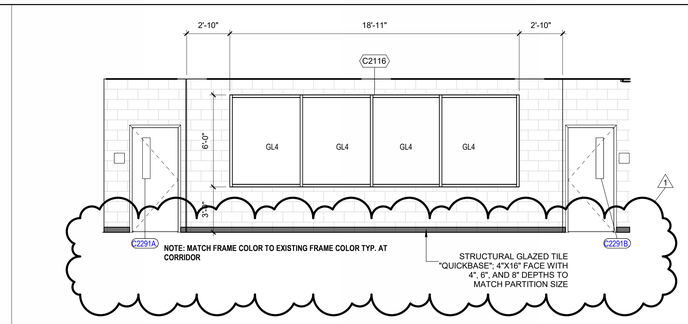
Author
Plot Stamp:
3/14/2025 9:58:25 AM

INTERIOR ELEVATIONS
A-521
FOR BLUEBEAM LABELING:

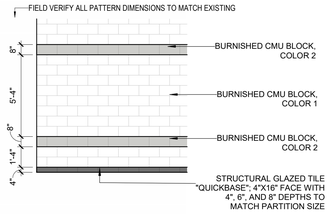
0"
1"



30 MARKER BOARD PARTITION WALL - BACK
1/4" = 1'-0"



28 BUSINESS COMPUTER C2116 - WINDOW @ CORRIDOR
1/4" = 1'-0"



26 TYP. BURNISHED BLOCK PATTERN
1/4" = 1'-0"

GLAZING MATERIALS LEGEND

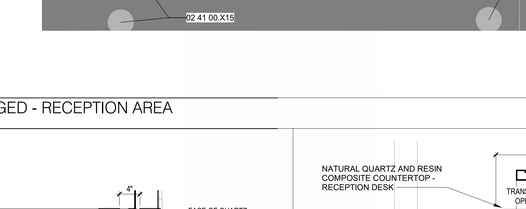
GL0
1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1

GL1
LAMINATED GLAZING SAFETY GLAZING

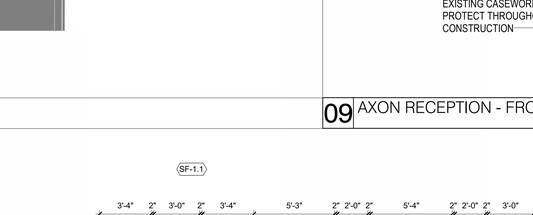
GL2
9/16" CHILDGUARD GLASS

GL3
1/4" CLEAR TEMPERED GLASS

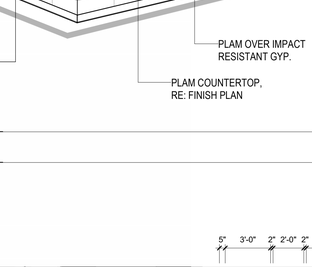
GL4
3/8" CHILDGUARD GLASS



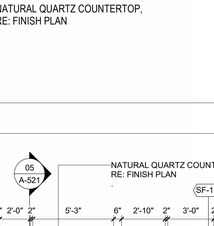
24 MARKER BOARD PARTITION WALL - FRONT
1/4" = 1'-0"



22 TYP. TEACHING WALL
1/4" = 1'-0"



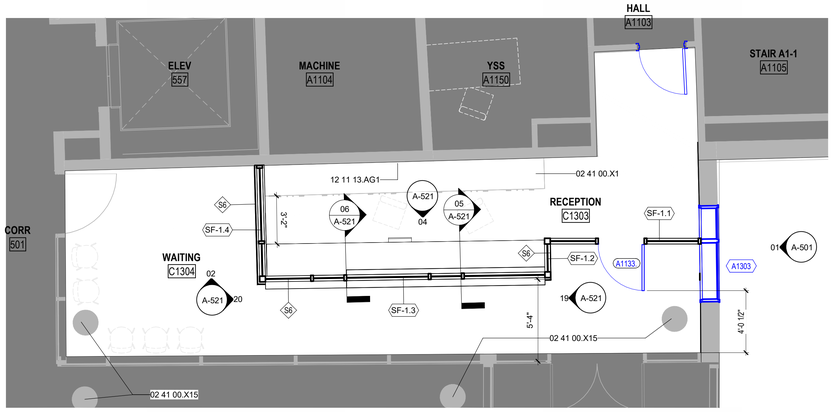
20 WAITING - EAST ELEVATION (SF-1.4)
1/4" = 1'-0"



19 WINDOW TYPE 3 - SF-1.2
1/4" = 1'-0"

STOREFRONT & CURTAIN WALL SCHEDULE - 1ST LEVEL AREA A

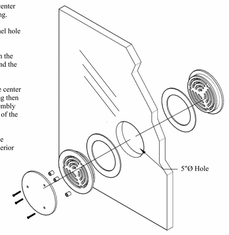
NUMBER	FRAME SIZE W x H WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	DETAILS HEAD	JAMB	SILL	REMARKS
SF-1.1	10' - 2 3/8"	10' - 0"			4 1/2"				
SF-1.2	1' - 9 7/8"	10' - 0"							2
SF-1.3	18' - 11 3/4"	7' - 7 1/2"							2
SF-1.4	7' - 2 5/8"	10' - 0"			4 1/2"				



12 ENLARGED - RECEPTION AREA
1/4" = 1'-0"

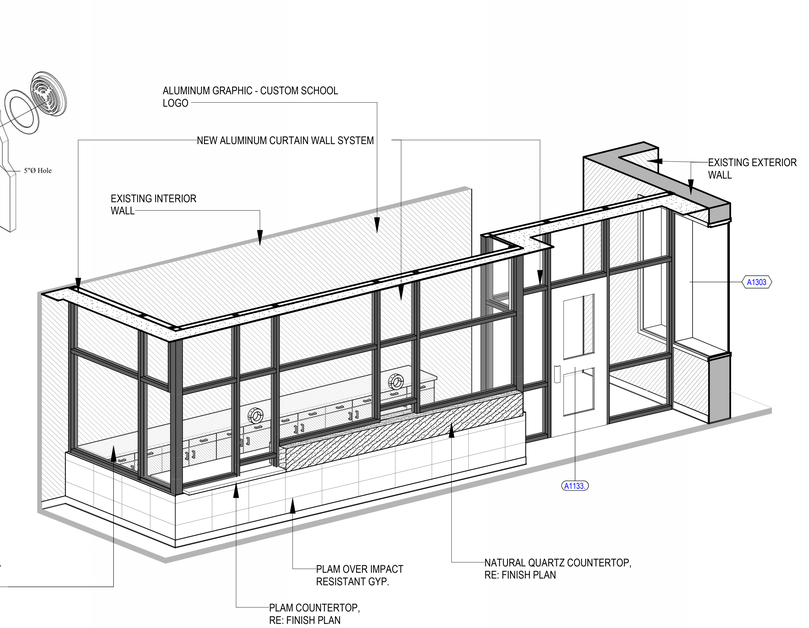
INSTALLATION INSTRUCTION

1. Place a gasket over the center hub of the exterior casting.
2. Install in the glazing panel hole from the exterior side.
3. Insert the screws through the steel plate, the spacers and the interior casting.
4. Place the gasket over the center hub of the interior casting then position the interior assembly through the interior side of the glazing panel hole.
5. Align the screws with the threaded holes in the exterior casting.
6. Thightten the screws.

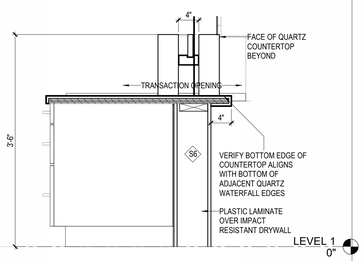


NOTE:
INSTALLATIONS SHOWN FOR QUIKSERV BULLET RESISTANT SPEAK-THRU

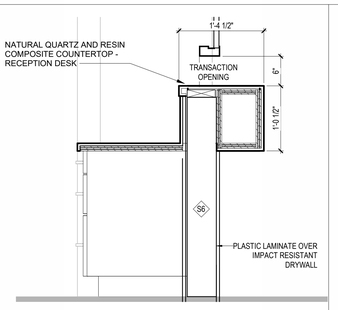
11 PASSIVE SPEAKER INSALLATION
1" = 1'-0"



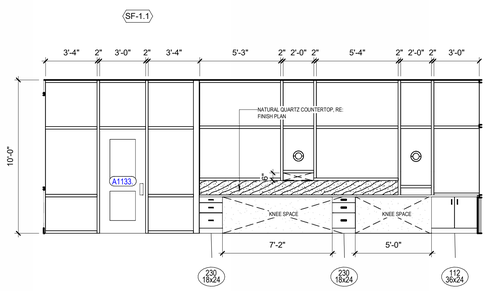
09 AXON RECEPTION - FRONT



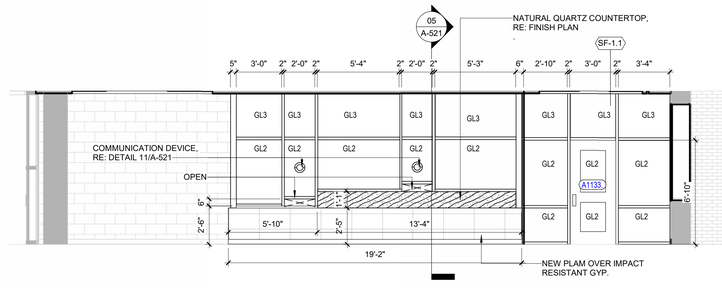
06 RECEPTION TRANSACTION DETAIL 2
1" = 1'-0"



05 RECEPTION TRANSACTION DETAIL 1
1" = 1'-0"



04 EXIST. RECEPTION - CSWRK.
1/4" = 1'-0"



02 WAITING - NORTH ELEVATION (SF-1.3 & SF-1.1)
1/4" = 1'-0"

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt

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DRAWN BY: Author
Plot Stamp: 3/14/2025 9:58:38 AM

PBK

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PBK.com
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Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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ENVELOPE CONSULTANT
BEAN
T 713-840-3301

ABATEMENT
BTI GLOBAL
T 832-518-5145

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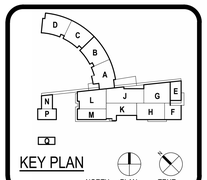
Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
RAMANDAN D. NIMRI
87548
STATE OF TEXAS
03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL
BUILDING NUMBER

INTERIOR ELEVATIONS

A-521

PARTITION TYPES: CMU & MTL STUD

A-801

FOR BLUEBEAM LABELING/OCR:

0"
1"

TYPE	FIRE RAT'G	DESCRIPTION
S6	NONE	6" MTL. STUD TO DECK
S6A	ONE HOUR	6" MTL. STUD TO DECK

05 PARTITION TYPE S6
1" = 1'-0"

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6	5 5/8"	NONE	6" CMU TO DECK		
M6.1	5 5/8"	1HR	6" CMU TO DECK		
M6.2	5 5/8"	2HR	6" CMU TO DECK		
M8	7 5/8"	NONE	8" CMU TO DECK		
M8.1	7 5/8"	1HR	8" CMU TO DECK		
M8.2	7 5/8"	2HR	8" CMU TO DECK		
M10	9 5/8"	NONE	10" CMU TO DECK		
M10.1	9 5/8"	1HR	10" CMU TO DECK		
M10.2	9 5/8"	2HR	10" CMU TO DECK		
M12	11 5/8"	NONE	12" CMU TO DECK		
M12.1	11 5/8"	1HR	12" CMU TO DECK		
M6.CU	5 5/8"	NONE	6" CMU TO DECK WITH 4" CONCRETE CURB		
M4	3 5/8"	NONE	4" CMU TO DECK		
M8.CU	7 5/8"	NONE	8" CMU TO DECK WITH 4" CONCRETE CURB		
M10.CU	9 5/8"	NONE	10" CMU TO DECK WITH 4" CONCRETE CURB		

04 PARTITION TYPE M- [TO DECK]
1" = 1'-0"

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
P44.C	3 5/8"&3 5/8"	NONE	DOUBLE WYTHE 4" CMU ABOVE CEILING		
P46.C	3 5/8"&5 5/8"	NONE	DOUBLE WYTHE 4"&6" CMU ABOVE CEILING		
P66.C	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU ABOVE CEILING		

03 PARTITION TYPE M--.C [CHASE ABV CLG]
1" = 1'-0"

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6.F	5 5/8"	NONE	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M6.F1	5 5/8"	1 HR	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M6.F2	5 5/8"	2HR	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F	7 5/8"	NONE	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F1	7 5/8"	1 HR	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F2	7 5/8"	2HR	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F	9 5/8"	NONE	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F1	9 5/8"	1 HR	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F2	9 5/8"	2HR	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F	11 5/8"	NONE	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F1	11 5/8"	1 HR	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F2	11 5/8"	2HR	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		

02 PARTITION TYPE M-.F [TO DECK W FINISH]
1" = 1'-0"

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M4.C	3 5/8"	NONE	4" CMU ABOVE CEILING		
M6.C	5 5/8"	NONE	6" CMU ABOVE CEILING		
M8.C	7 5/8"	NONE	8" CMU ABOVE CEILING		
M10.C	9 5/8"	NONE	10" CMU ABOVE CEILING		
M12.C	11 5/8"	NONE	12" CMU ABOVE CEILING		

01 PARTITION TYPE M-.C [ABOVE CEILING]
1" = 1'-0"

ARCHITECT PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
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TX Firm: BR 1608

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KUBALA ENGINEERS
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MEP/FP
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ENVELOPE CONSULTANT
SEAM
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EFI GLOBAL
T 832-518-5145

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

ARCHITECT

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

BUILDING NUMBER

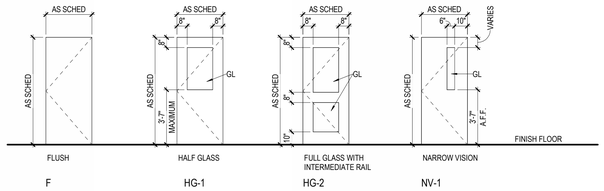
PARTITION TYPES - CMU & MTL STUD

A-801

0"
1"

DOORS & WINDOWS - PANEL / FRAME TYPES & DETAILS
A-811
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



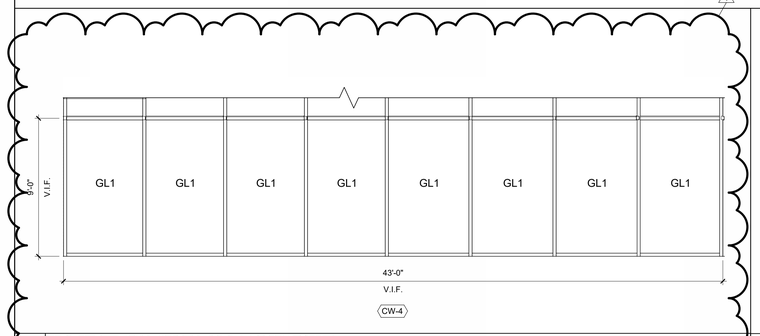
27 DOOR FRAME CONFIGURATIONS

MATERIALS

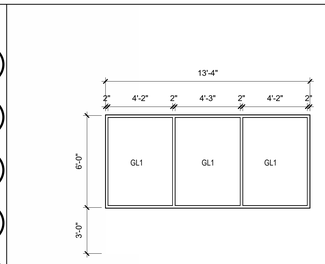
AL - ALUMINUM	**VL -** VINYL
HM - HOLLOW METAL	**PL -** PLASTIC LAMINATE
HG - HOLLOW METAL GALV	**WS -** WOOD, SOLID CORE
HS - HM 24 GA. STEEL	**WH -** WOOD, HOLLOW CORE
SS - STAINLESS STEEL	**PTD# -** PAINTED TYPE

REMARKS LEGEND

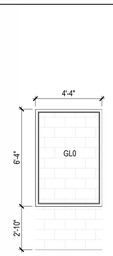
1. WITH EGRESS DEVICE
2. MAGNETIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER



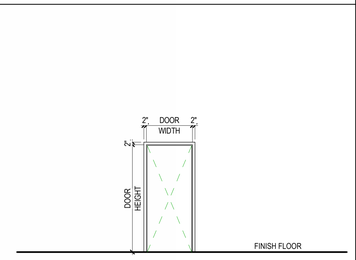
24 AREA P - EXISTING STOREFRONT CW-4
1/4" = 1'-0"



22 WINDOW TYPE 2
1/4" = 1'-0"



21 WINDOW TYPE 1
1/4" = 1'-0"



20 DOOR PANEL TYPES

GLAZING MATERIALS LEGEND

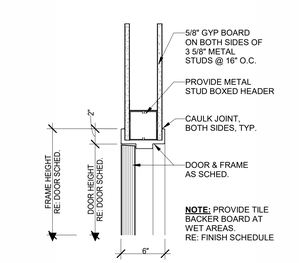
GL0
1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1

GL1
LAMINATED GLAZING SAFETY GLAZING

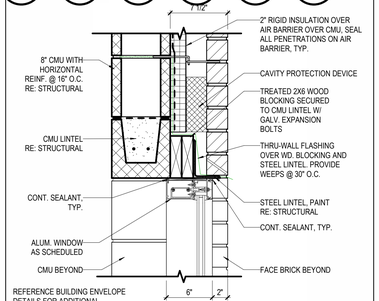
GL2
9/16" CHILDGUARD GLASS

GL3
1/4" CLEAR TEMPERED GLASS

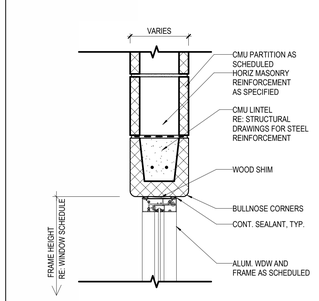
GL4
3/8" CHILDGUARD GLASS



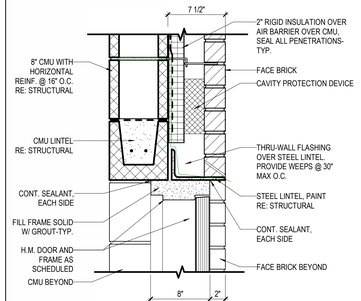
18 HM DOOR HEAD @ 3-5/8" MTL STUD
1 1/2" = 1'-0"



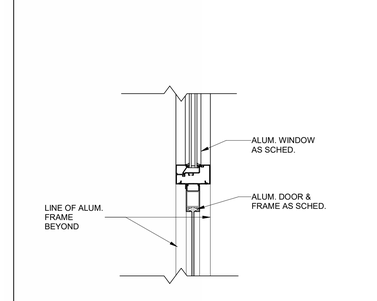
17 ALUM WINDOW HEAD @ BRICK ON CMU
1 1/2" = 1'-0"



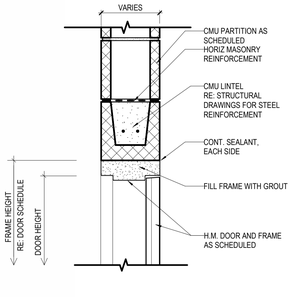
16 ALUM. WINDOW HEAD @ CMU (INTERIOR)
1 1/2" = 1'-0"



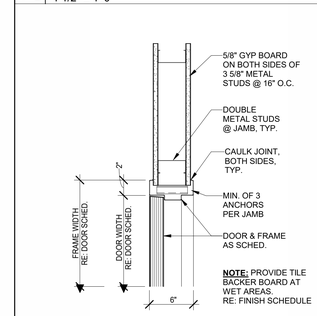
15 HM DOOR HEAD @ BRICK ON CMU
1 1/2" = 1'-0"



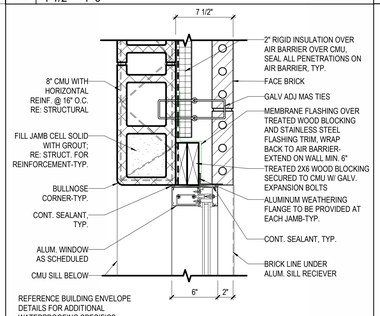
14 ALUM. DOOR HEAD @ ALUM. FRAME INT.
1 1/2" = 1'-0"



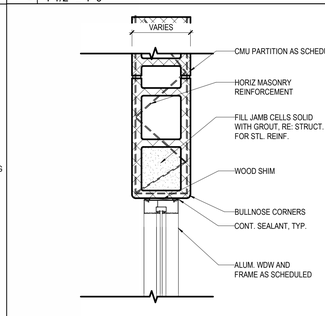
13 HM DOOR HEAD @ CMU (INTERIOR)
1 1/2" = 1'-0"



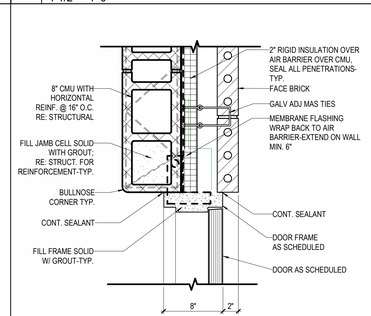
12 HM DOOR JAMB @ 3-5/8" MTL STUD
1 1/2" = 1'-0"



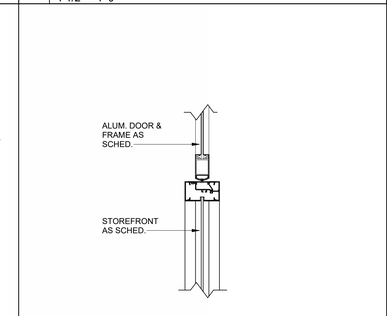
11 ALUM WINDOW JAMB @ BRICK ON CMU
1 1/2" = 1'-0"



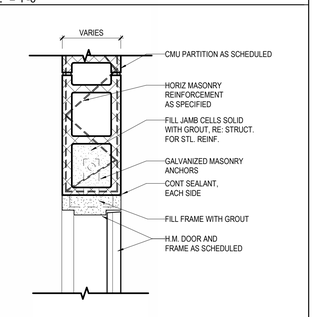
10 ALUM. WINDOW JAMB @ CMU (INTERIOR)
1 1/2" = 1'-0"



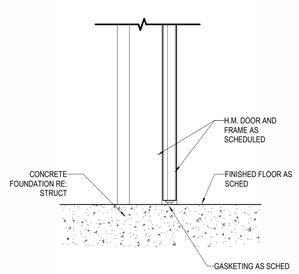
09 HM DOOR JAMB @ BRICK ON CMU
1 1/2" = 1'-0"



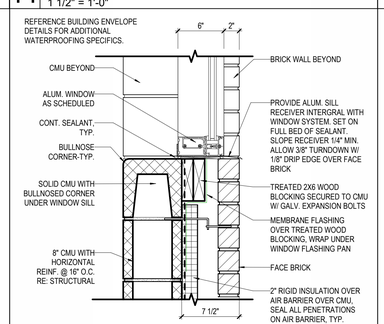
08 ALUM. DOOR JAMB @ ALUM. MULLION
1 1/2" = 1'-0"



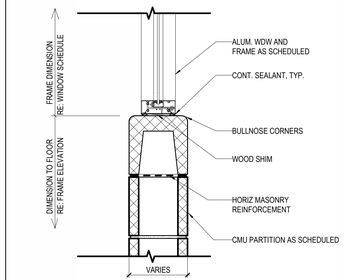
07 HM DOOR JAMB @ CMU (INTERIOR)
1 1/2" = 1'-0"



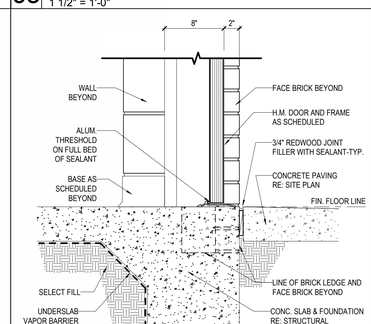
06 INT -HM DOOR THR 0 - CFMF.
1 1/2" = 1'-0"



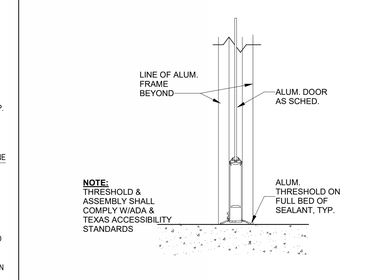
05 ALUM WINDOW SILL @ BRICK ON CMU
1 1/2" = 1'-0"



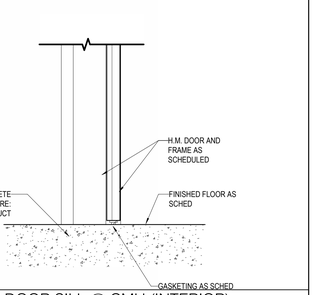
04 ALUM. WINDOW SILL @ CMU (INTERIOR)
1 1/2" = 1'-0"



03 HM DOOR SILL @ BRICK ON CMU
1 1/2" = 1'-0"



02 ALUM. DOOR SILL
1 1/2" = 1'-0"



01 HM DOOR SILL @ CMU (INTERIOR)
1 1/2" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2
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Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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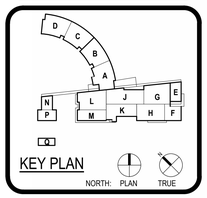

ARCHITECT
REGISTERED ARCHITECT
BRANDON D. ROSE
87548
STATE OF TEXAS
03/10/2025

CLIENT
CFISD
DATE 03/10/2025
PROJECT NUMBER 240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL
BUILDING NUMBER

DOORS & WINDOWS - PANEL / FRAME TYPES & DETAILS

A-811

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Renovation.rvt
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Plot Stamp: 3/14/2025 9:59:00 AM

WINDOWS & STOREFRONT ELEVATIONS

A-823

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

GLAZING MATERIALS LEGEND

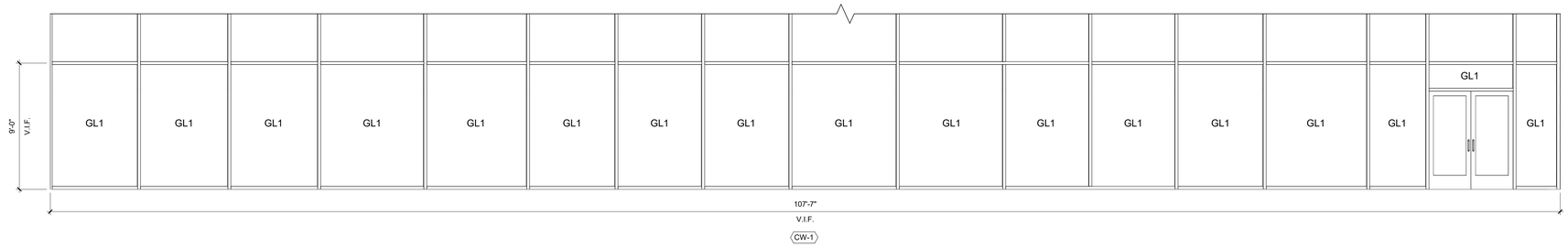
GL0
1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1

GL1
LAMINATED GLAZING SAFETY GLAZING

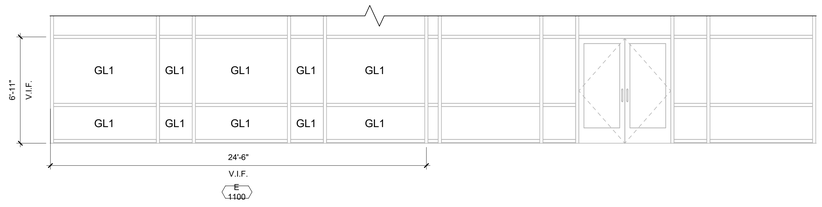
GL2
9/16" CHILDGUARD GLASS

GL3
1/4" CLEAR TEMPERED GLASS

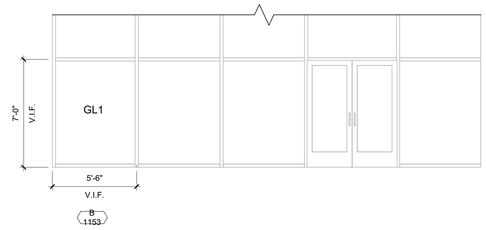
GL4
3/8" CHILDGUARD GLASS



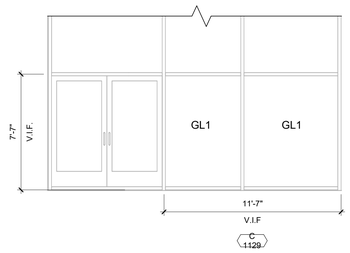
30 AREA N - EXISTING STOREFRONT CW-1
1/4" = 1'-0"



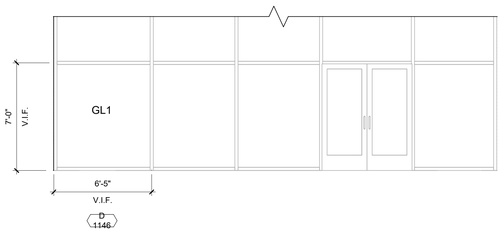
24 AREA E - EXISTING STOREFRONT E1100
1/4" = 1'-0"



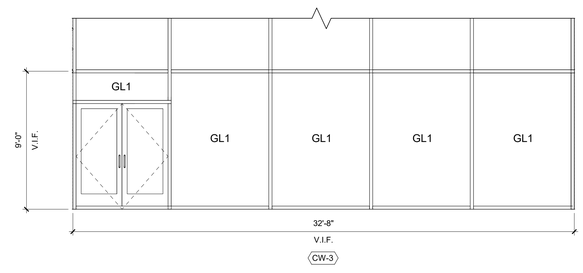
18 AREA B - EXISTING STOREFRONT B1153
1/4" = 1'-0"



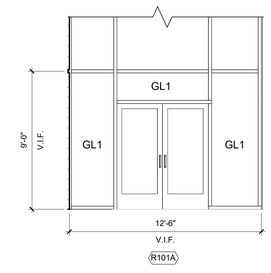
12 AREA C - EXISTING STOREFRONT C1129
1/4" = 1'-0"



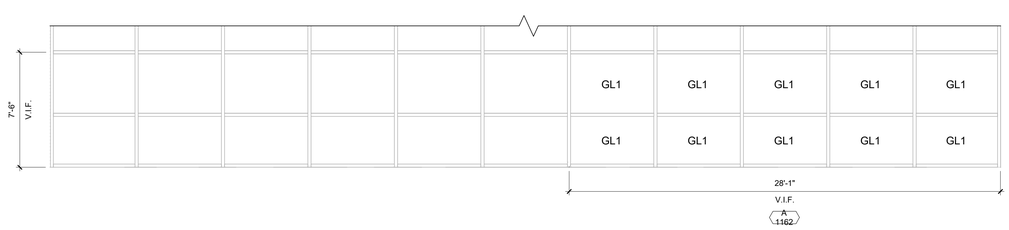
11 AREA D - EXISTING STOREFRONT D1146
1/4" = 1'-0"



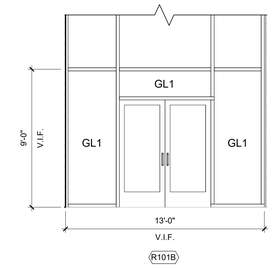
21 AREA N - EXISTING STOREFRONT CW-3
1/4" = 1'-0"



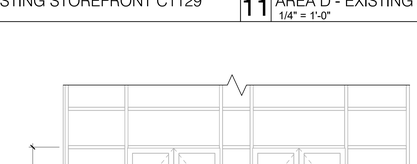
19 AREA N - EXISTING STOREFRONT R101A
1/4" = 1'-0"



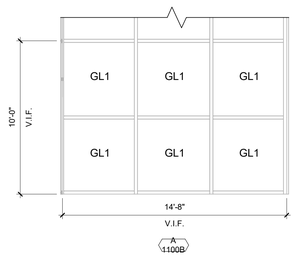
16 AREA A - EXISTING STOREFRONT A1162
1/4" = 1'-0"



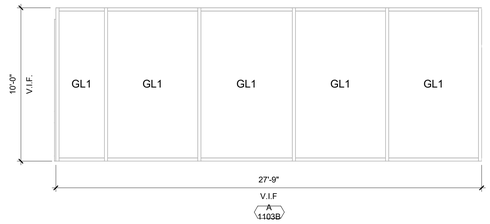
13 AREA N - EXISTING STOREFRONT R101B
1/4" = 1'-0"



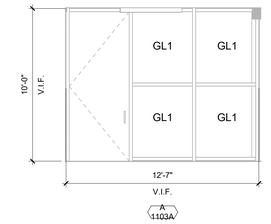
06 AREA A - EXISTING STOREFRONT A1100A
1/4" = 1'-0"



04 AREA A - EXISTING STOREFRONT A1100B
1/4" = 1'-0"



03 AREA A - EXISTING STOREFRONT A1103B
1/4" = 1'-0"



01 AREA A - EXISTING STOREFRONT A1103A
1/4" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

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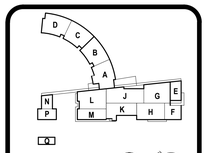


ARCHITECT

03/10/2025

CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL

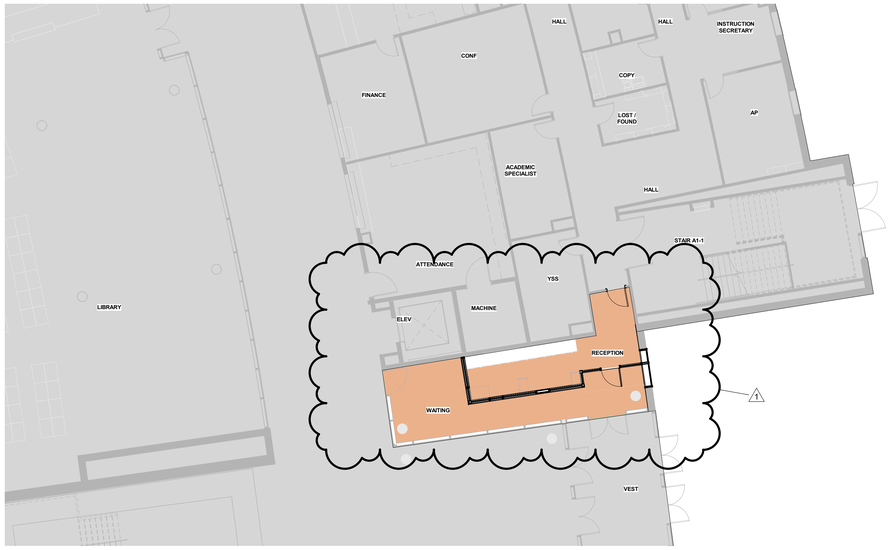
BUILDING NUMBER

WINDOWS & STOREFRONT ELEVATIONS

1

A-823

0"
1"



24 1ST LEVEL - FINISH FLOOR PLAN - AREA A
1" = 10'-0"

FINISH SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

REMARKS:

1. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT

CP1, CARPET TYPE 1

CP2, CARPET TYPE 2

RFT1, LUXURY VINYL TILE TYPE 1

RFT2, LUXURY VINYL TILE TYPE 2

SC1, SEALED CONCRETE

EXISTING TO REMAIN

20 FINISH FLOOR LEGEND

06 1ST LEVEL - FINISH FLOOR PLAN - AREA D
1" = 10'-0"

03 1ST LEVEL - FINISH FLOOR PLAN - AREA L
1" = 10'-0"

ISSUE FOR PROPOSAL

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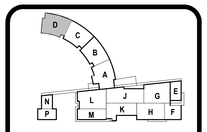

KEY PLAN
NORTH: PLAN TRUE

ARCHITECT
REGISTERED ARCHITECT
KRISTOPHER D. PRICE
97148
STATE OF TEXAS
03/10/2025

CLIENT
CFISD
DATE 03/10/2025
PROJECT NUMBER 240059
DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	03/14/25

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL - FINISH FLOOR PLAN - ENLARGED AREAS

AF101.1

CASEWORK ELEVATIONS & DETAILS
A-841
FOR BLUEBEAM LABELING/OCR:

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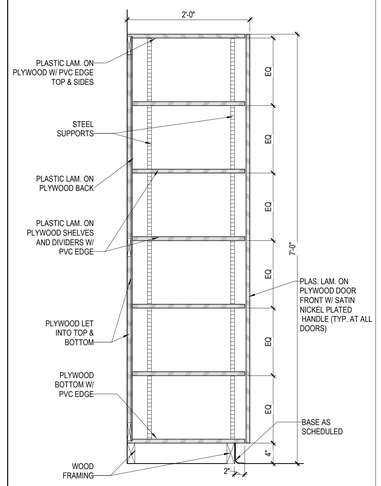
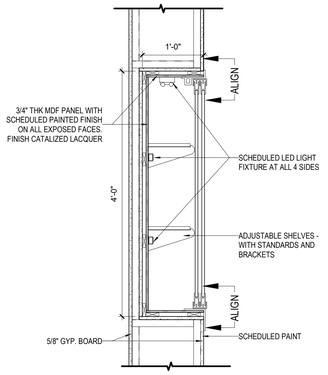
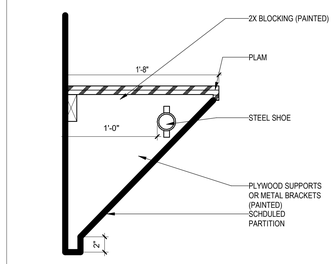


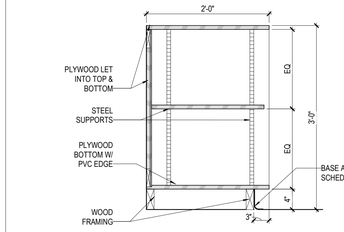
20 STORAGE CABINET
1" = 1'-0"



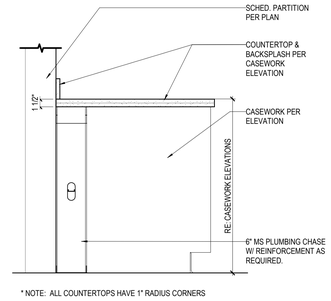
19 ART DISPLAY CASE
1" = 1'-0"



18 HANGING ROD DETAIL
1 1/2" = 1'-0"

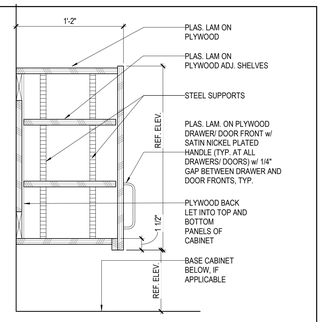


17 CLASSROOM OPEN SHEVING
1" = 1'-0"

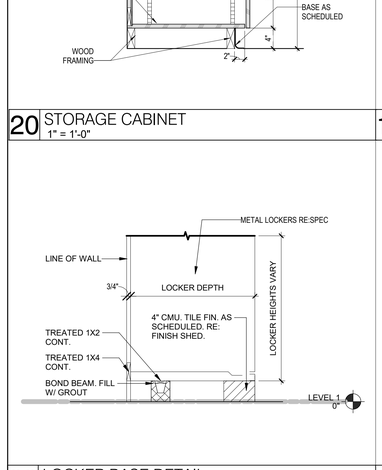


* NOTE: ALL COUNTERTOPS HAVE 1" RADIUS CORNERS

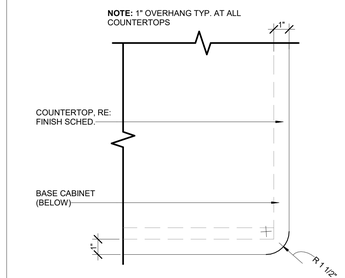
11 CABINET WITH PLUMBING CHASE
1" = 1'-0"



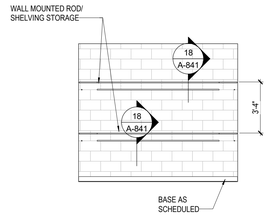
9 A-DTCS-UPPER CABINET-14460
1 1/2" = 1'-0"



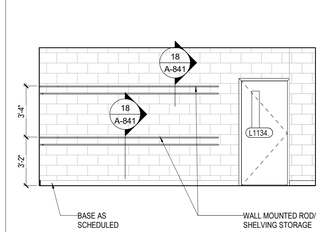
23 LOCKER BASE DETAIL
1" = 1'-0"



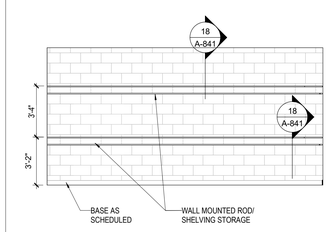
21 CORNER RADIUS DETAIL
3" = 1'-0"



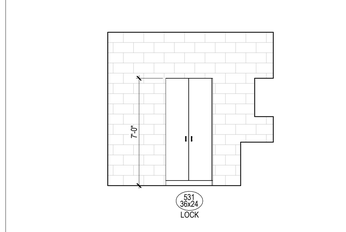
16 UNIFORM STORAGE - SOUTH ELEVATION
1/4" = 1'-0"



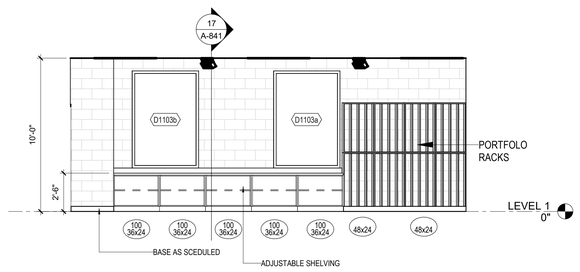
15 UNIFORM STORAGE - WEST ELEVATION
1/4" = 1'-0"



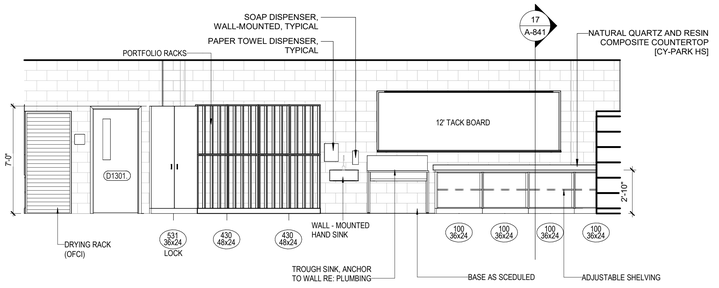
14 UNIFORM STORAGE - EAST ELEVATION
1/4" = 1'-0"



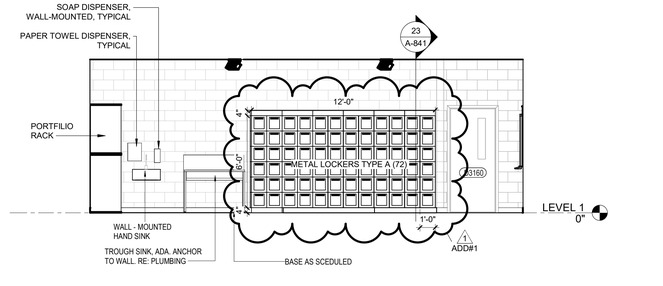
13 STORAGE D1300 - EAST ELEVATION
1/4" = 1'-0"



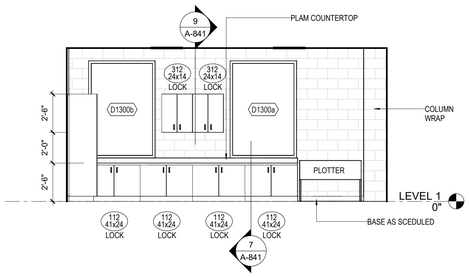
12 ART - SOUTH ELEVATION
1/4" = 1'-0"



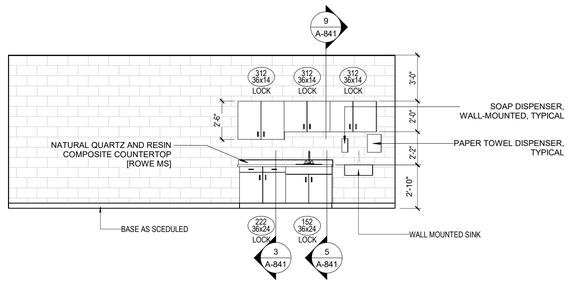
10 ART - WEST ELEVATION
1/4" = 1'-0"



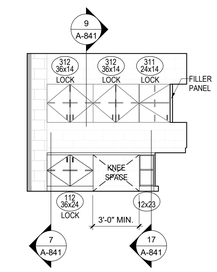
08 ART - NORTH ELEVATION
1/4" = 1'-0"



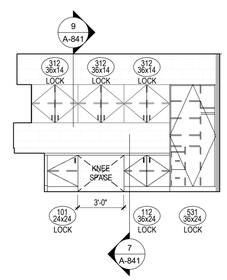
06 STORAGE D1300 - SOUTH ELEVATION
1/4" = 1'-0"



04 DIGITAL ART - EAST ELEVATION
1/4" = 1'-0"



02 OFFICE - NORTH ELEVATION
1/4" = 1'-0"



01 OFFICE - EAST ELEVATION
1/4" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

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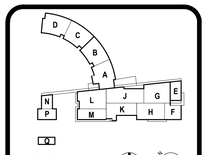

ARCHITECT

03/10/2025

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DATE	PROJECT NUMBER
03/10/2025	240059

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No.	Description	Date
1	ADDENDUM 01	03/14/25

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BUILDING NUMBER

CASEWORK ELEVATIONS & DETAILS

A-841

1 **MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA A**
Scale: 1/8" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
2. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.
3. REMOVE ALL EXISTING SPACE MOUNTED TEMPERATURE AND HUMIDITY SENSORS NOT BEING REUSED. PROVIDE STAINLESS STEEL COVER PLATES.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL HVAC EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO VAV UNITS, EXHAUST FANS, DUST COLLECTORS, AND AIR HANDLERS AND CONTROLS.
5. THROUGHOUT CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND RENTAL EQUIPMENT, INCLUDING POWER FOR SUCH EQUIPMENT, AND TO PROVIDE PHASING TO ENSURE SPACE TEMPERATURE AND HUMIDITY IS MAINTAINED. REFER TO SPECIFICATION 23 05 11 MECHANICAL ALTERATIONS PROJECT PROCEDURES, ARTICLE 3.8 FOR ADDITIONAL REQUIREMENTS. CONTRACTOR SHALL REVIEW ALL REQUIREMENTS PRIOR TO BID.

MECHANICAL DEMOLITION KEYED NOTES:

1. EXISTING DUAL DUCT BOX SHALL REMAIN.
2. EXISTING DUCTWORK SHALL REMAIN.
3. EXISTING SUPPLY AIR DIFFUSER SHALL BE RELOCATED RE: 1/M211A.
4. EXISTING DUCTWORK SHALL BE REMOVED TO POINT INDICATED.

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M-111A

MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA A

FOR BLUEBEAM LABELING/OCR:

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

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KEY PLAN
NORTH: PLAN TRUE

BRADLEY KALMANS
LICENSED
80219
PROFESSIONAL ENGINEER
STATE OF TEXAS
03-14-25

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03/10/2025	240059

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1	Addendum #1	2025.03.14

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BUILDING NUMBER

MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA A

M-111A

MECHANICAL FLOOR PLAN - LEVEL 1 - AREA A

M-211A

FOR BLUEBEAM LABELING/OCR:

0"

1"

1 **MECHANICAL FLOOR PLAN - LEVEL 1 - PLAN AREA A**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +46" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES

1 RE-BALANCE EXISTING SUPPLY AIR DIFFUSER TO INDICATED AIR FLOW CFM.
2 EXISTING SUPPLY AIR DIFFUSER NEW LOCATION.

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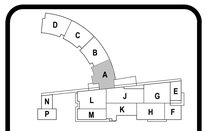

KEY PLAN
NORTH: PLAN TRUE

03-14-25

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03/10/2025	240059

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MECHANICAL FLOOR PLAN - LEVEL 1 - AREA A

M-211A

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0"
1"

MECHANICAL FLOOR PLAN - LEVEL 1 - AREA D
M-211D
FOR BLUEBEAM LABELING OOR:

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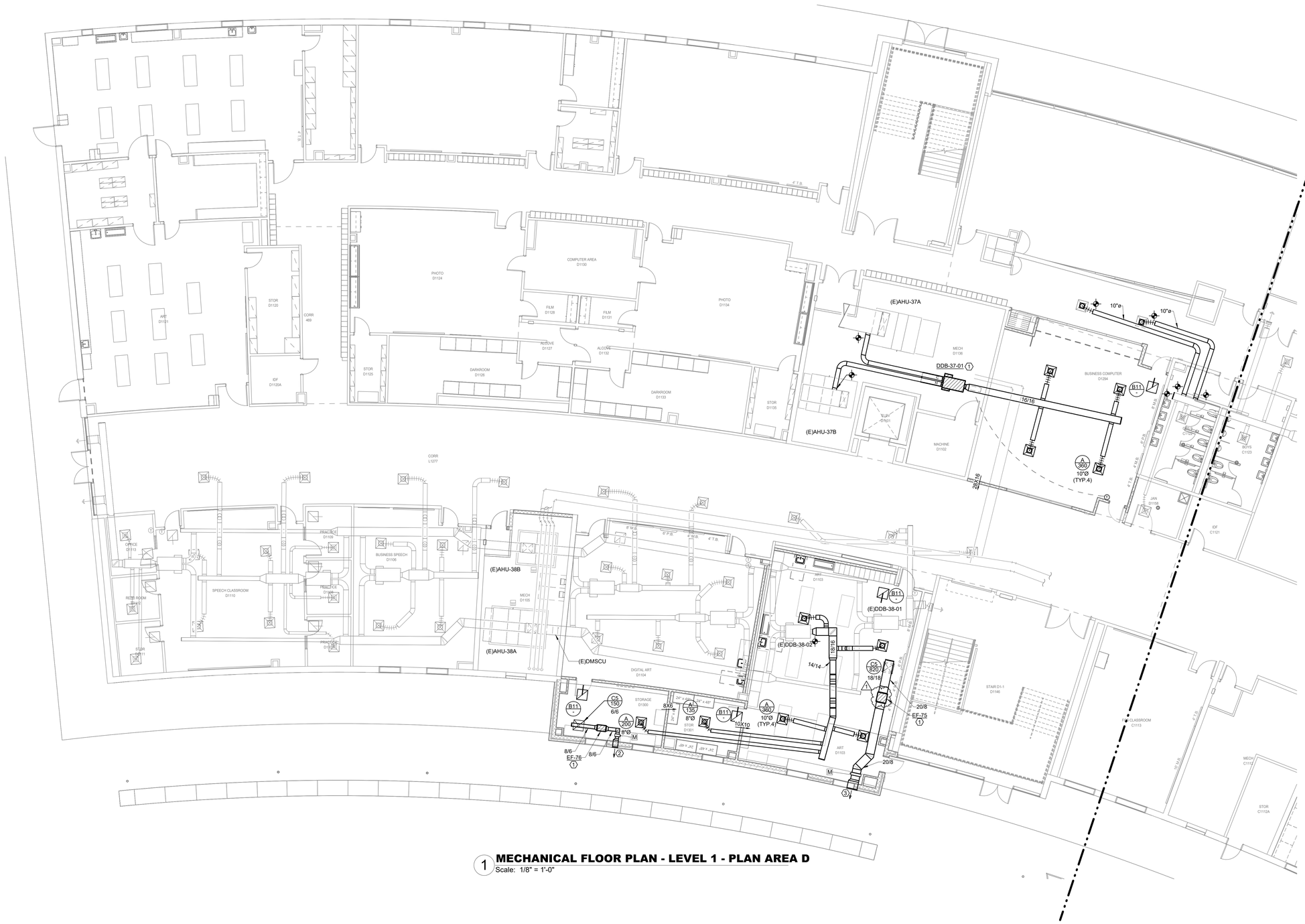
MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCES WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. PROVIDE 12"X 12" RUSKIN MODEL HZ700MD WIND-DRIVEN RAIN RESISTANT EXHAUST AIR STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 0.29 SQ. FT. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT.
3. PROVIDE 24"X 12" RUSKIN MODEL HZ700MD WIND-DRIVEN RAIN RESISTANT EXHAUST AIR STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 0.63 SQ. FT. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT.



1 **MECHANICAL FLOOR PLAN - LEVEL 1 - PLAN AREA D**
Scale: 1/8" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS
RENOVATIONS - VOLUME 2

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INDEPENDENT SCHOOL DISTRICT
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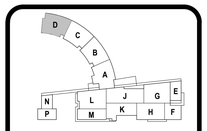
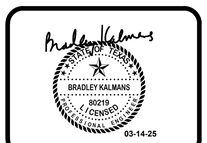


KEY PLAN
NORTH: PLAN TRUE



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03/10/2025	240059

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MECHANICAL FLOOR PLAN - LEVEL 1 - AREA D

M-211D

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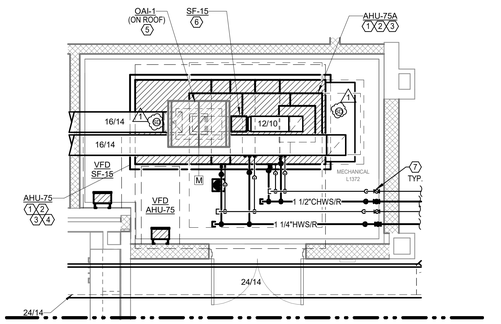
MECHANICAL FLOOR PLAN - LEVEL 1 - AREA L
M-211L
FOR BLUEBEAM LABELING/OCR:

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

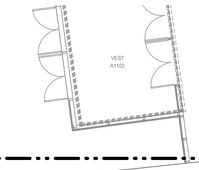
MECHANICAL KEYED NOTES:

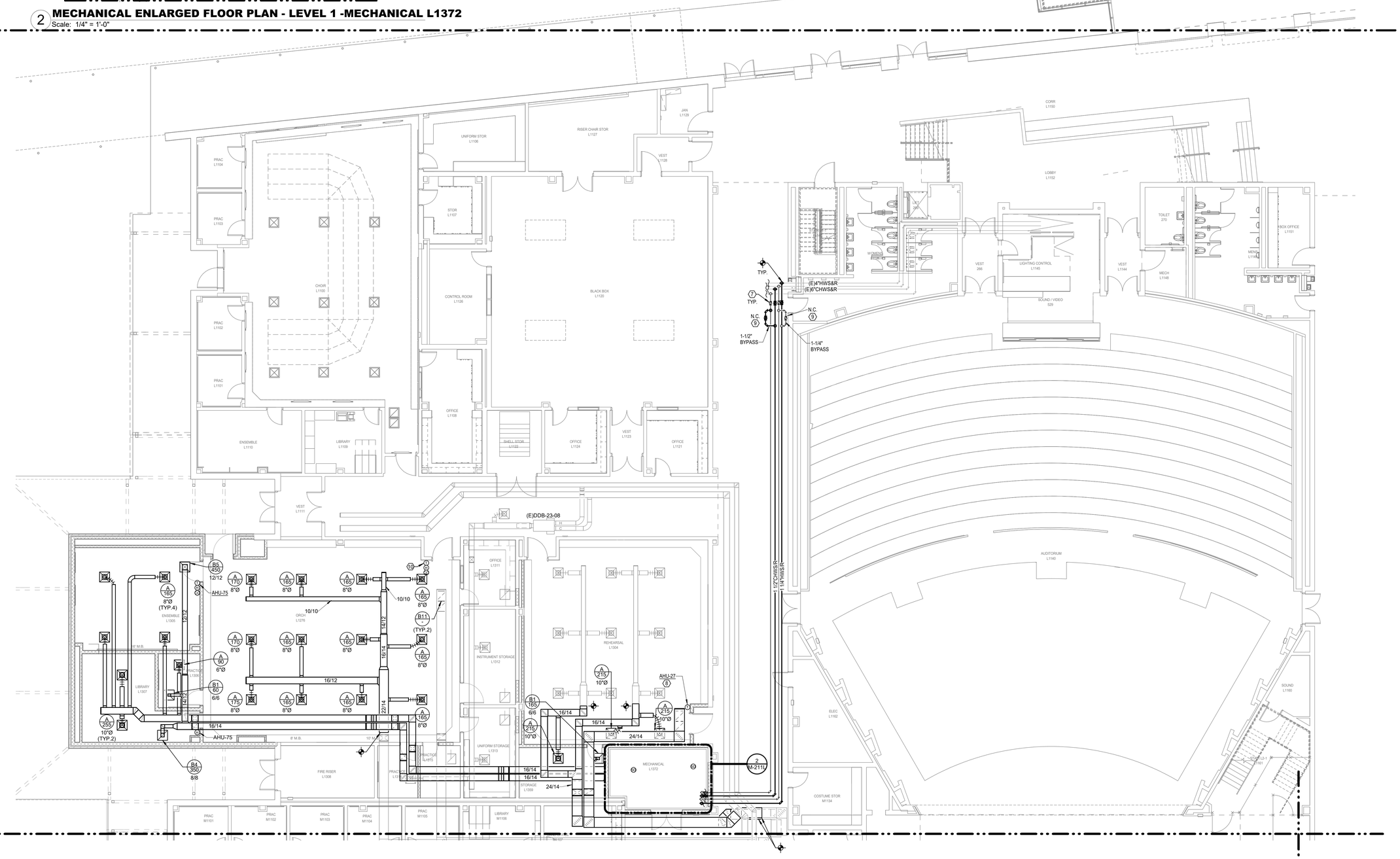
1. VERIFY SERVICE CLEARANCES FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. ROUTE FULL SIZE CONDENSATE DRAIN PIPING TO FLOOR SINK (SEE PLUMBING DRAWING FOR EXACT LOCATION). INSTALL CONDENSATE TRAP AS RECOMMENDED PER MANUFACTURER.
3. REFER TO DETAILS FOR AHU COIL PIPING.
4. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
5. ROUTE DUCTWORK AT SIZE INDICATED UP TO RELIEF/INTAKE ON ROOF. TRANSITION DUCTWORK TO CONNECT TO RELIEF/INTAKE OPENING.
6. PROVIDE FULL SIZE PLENUM AT RETURN AIR INLET FOR AHU AS SHOWN AND INSTALL TEMPERATURE SENSOR.
7. PROVIDE ISOLATION VALVE.
8. EXTEND EXISTING CONTROL WIRES FROM TEMPERATURE SENSOR TO MAKE FINAL CONNECTION.
9. PROVIDE NEW BYPASS PIPING AND VALVES AS SHOWN TO ALLOW FOR ISOLATING THE NEW PIPING FROM THE EXISTING HYDRONIC LOOPS. TESTING, FLUSHING, AND TREATEMENT OF NEW PIPING SHALL BE PERFORMED PRIOR TO OPENING THE NEW PIPING TO THE EXISTING HYDRONIC LOOPS. PURGERITE OR COMPARABLE COMPANY SHALL PROVIDE ASSISTANCE TO THE MECHANICAL CONTRACTOR TO CONFIRM FLUSHING AND CLEANING AT DESIGN SYSTEM FLOW RATES. CHEMICAL TREATEMENT MANUFACTURER SHALL TEST WATER TO CONFIRM COMPLIANCE OF FLUSHING AND TREATMENT OF WATER PRIOR TO OPENING THE NEW PIPING VALVES TO THE EXISTING HYDRONIC LOOP.
10. PROVIDE NEW CONTROL WIRING FROM TEMPERATURE SENSOR TO (E)AHU-26.



2 MECHANICAL ENLARGED FLOOR PLAN - LEVEL 1 -MECHANICAL L1372

Scale: 1/4" = 1'-0"





1 MECHANICAL FLOOR PLAN - LEVEL 1 - PLAN AREA L

Scale: 1/8" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

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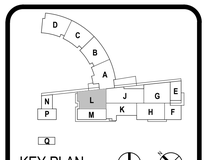

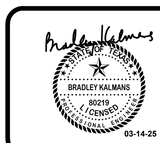

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BUILDING NUMBER

MECHANICAL FLOOR PLAN - LEVEL 1 - AREA L

M-211L

ISSUE FOR PROPOSAL

MECHANICAL FLOOR PLAN - LEVEL 2 - AREA C
M-212C
FOR BLUEBEAM LABELING:OOR:

0"
1"

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES:

1 REBALANCE EXISTING DUAL DUCT BOX TO 600 CFM.

1 **MECHANICAL FLOOR PLAN - LEVEL 2 - PLAN AREA C**
Scale: 1/8" = 1'-0"

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2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

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STATE OF TEXAS
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PROFESSIONAL ENGINEER
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03/10/2025	240059

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MECHANICAL FLOOR PLAN - LEVEL 2 - AREA C

M-212C

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MECHANICAL FLOOR PLAN - CENTRAL PLANT OFFICE
M-213
FOR BLUEBEAM LABELING/OCR:

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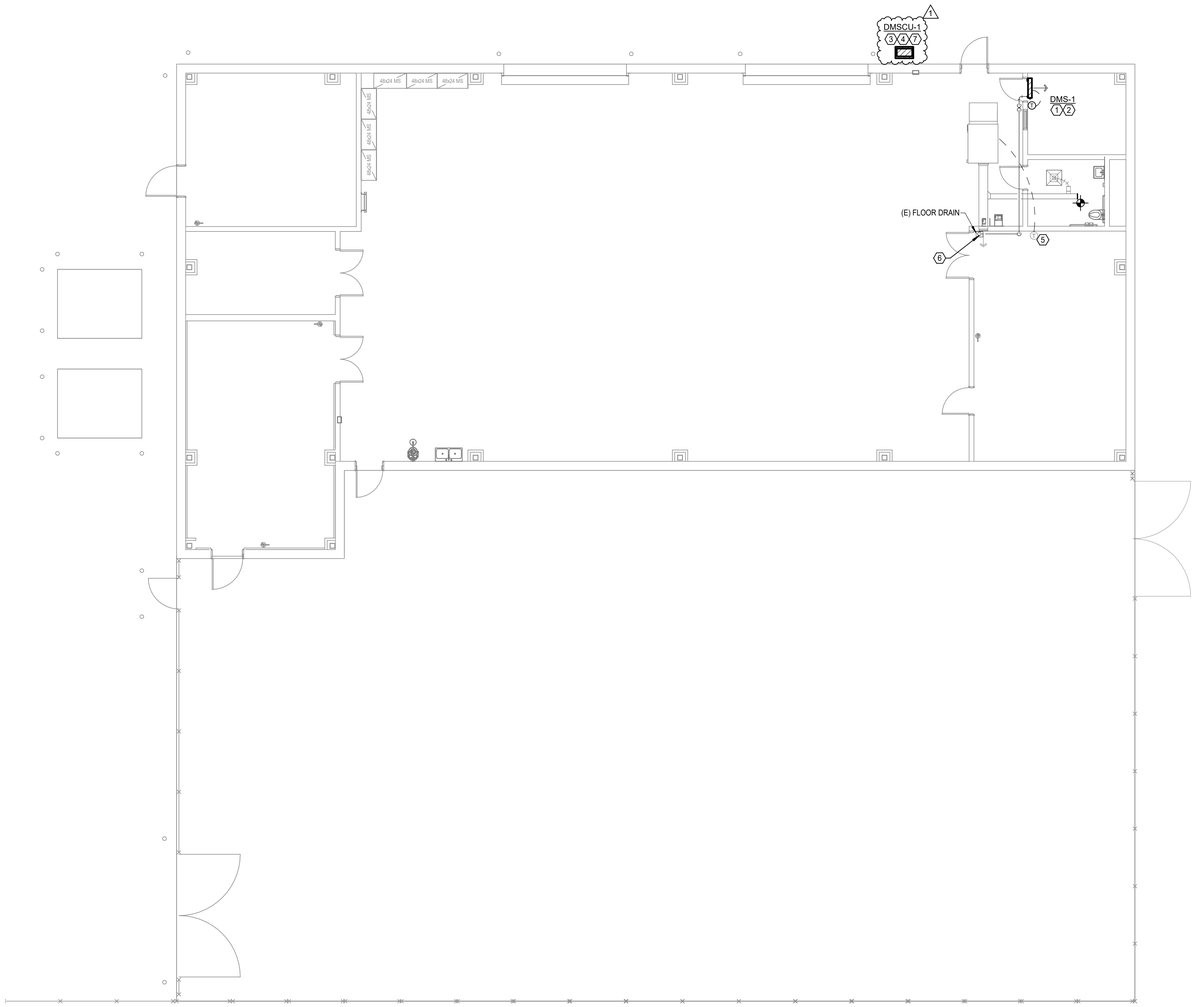

1 **MECHANICAL FLOOR PLAN - LEVEL 1 - CENTRAL PLANT**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCES WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. ROUTE REFRIGERANT LINES TO ASSOCIATED CONDENSING UNIT ON GROUND. SIZE LINES PER MANUFACTURER'S RECOMMENDATION. REFRIGERANT PIPE ELEVATION INSIDE THE BUILDING SHALL BE NOT LESS THAN 12" AFF.
3. VERIFY SERVICE CLEARANCES FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
4. ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT.
5. PROVIDE NEW CONTROL WIRING FROM EXISTING TEMPERATURE SENSOR TO (E)FCU-4.
6. ROUTE FULL SIZE CONDENSATE PIPE TO EXISTING FLOOR DRAIN.
7. MOUNT UNIT ON 4" HOUSEKEEPING CONCRETE PAD.

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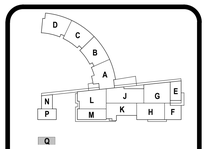

KEY PLAN
NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

BUILDING NUMBER

MECHANICAL FLOOR PLAN - CENTRAL PLANT OFFICE

M-213

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0"
1"

MECHANICAL DETAILS, AND LEGENDS
M-401
FOR BLUEBEAM LABELING/OCR:

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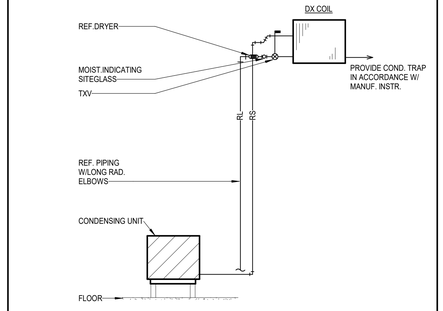
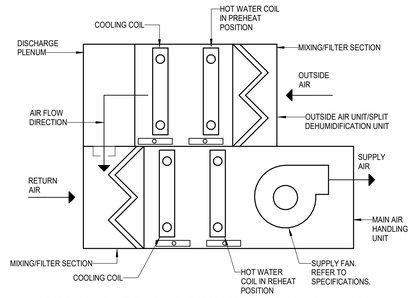


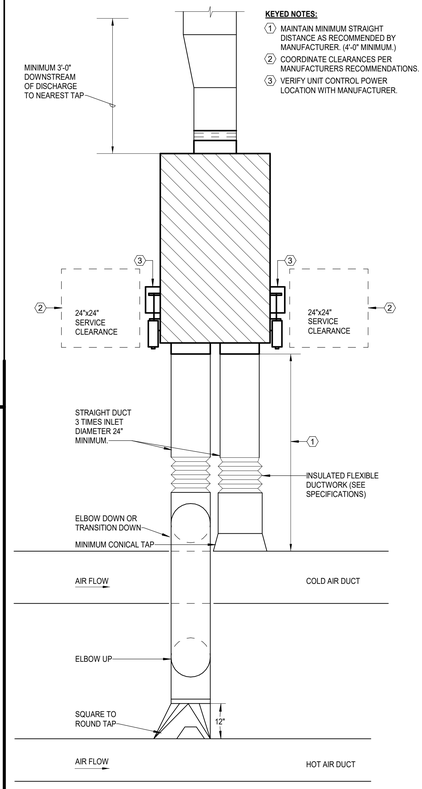
7 REFRIGERANT PIPING DIAGRAM
SCALE: NONE

REFER TO SCHEDULES AND DRAWINGS FOR OUTSIDE AIR, RETURN AIR, AND SUPPLY AIR OPENING LOCATIONS.

REFER TO SPECIFICATIONS FOR ACCESS DOOR LOCATIONS.

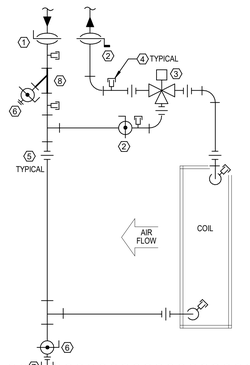


6 AHU WITH SPLIT DEHUMIDIFICATION UNIT DIAGRAM
SCALE: NONE



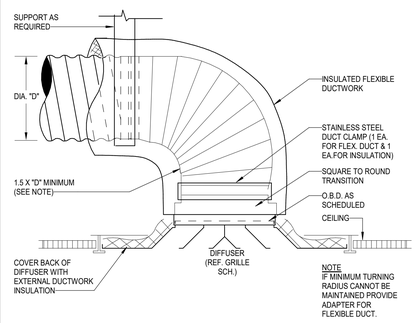
KEYED NOTES:
1. MAINTAIN MINIMUM STRAIGHT DISTANCE AS RECOMMENDED BY MANUFACTURER. (4'-0" MINIMUM.)
2. COORDINATE CLEARANCES PER MANUFACTURERS RECOMMENDATIONS.
3. VERIFY UNIT CONTROL POWER LOCATION WITH MANUFACTURER.

3 DUAL-DUCT BOX INSTALLATION
SCALE: NONE

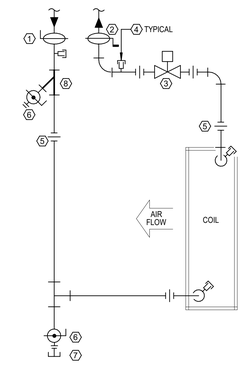


KEYED NOTES:
1. SHUT OFF VALVE
2. BALANCING VALVE
3. CONTROL VALVE
4. TEMPERATURE/PRESSURE TEST STATION
5. UNION (2" & SMALLER ONLY, FLANGE CONNECTION FOR LARGER PIPES)
6. 1/2" BALL VALVE WITH HOSE THREAD ADAPTER, CAP AND CHAIN
7. DIRT LEG
8. PIPE STRAINER

5 PIPING AT WATER COIL 3-WAY
SCALE: NONE

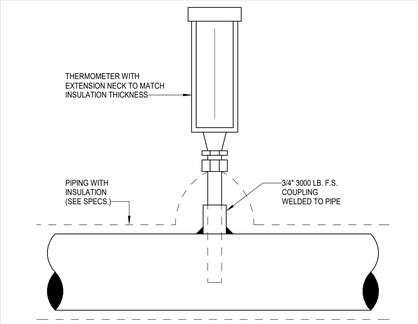


2 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
SCALE: NONE



KEYED NOTES:
1. SHUT OFF VALVE
2. BALANCING VALVE
3. CONTROL VALVE
4. TEMPERATURE/PRESSURE TEST STATION
5. UNION (2" & SMALLER ONLY, FLANGE CONNECTION FOR LARGER PIPES)
6. 1/2" BALL VALVE WITH HOSE THREAD ADAPTER, CAP AND CHAIN
7. DIRT LEG
8. PIPE STRAINER

4 PIPING AT WATER COIL 2-WAY
SCALE: NONE



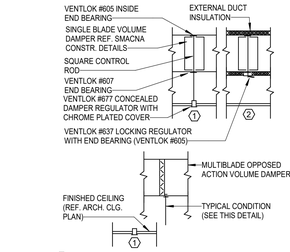
NOTES:
1. SEE TEMPERATURE TEST WELL DETAIL FOR MOUNTING ARRANGEMENTS AND CLEARANCES
2. MOUNT TO BE READABLE FROM FLOOR AT 5'-6" EYE LEVEL (7'-0" MAX.)

1 THERMOMETER INSTALLATION
SCALE: NONE

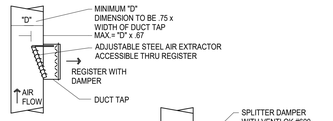
SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
/#/	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
S	SMOKE DAMPER (VERTICAL)
S	SMOKE DAMPER (HORIZONTAL)
F S	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
F S	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SDI	SMOKE DETECTOR
HDI	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILLARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
PR	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
G.C.	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

DUCTWORK CONSTRUCTION DETAILS

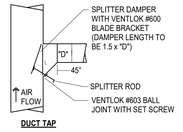


1 DAMPER ABOVE INACCESSIBLE CEILING
2 DAMPER ABOVE LIFT-OUT CEILING

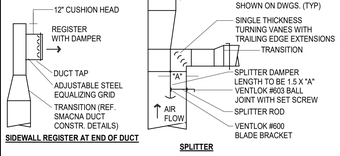


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER



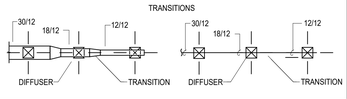
DUCT TAP



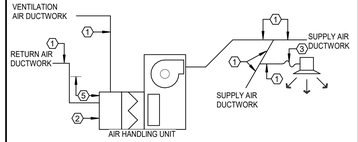
SIDEWALL REGISTER AT END OF DUCT

SPLITTER

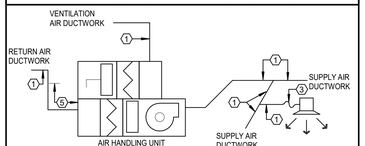
DUCTWORK SYMBOLS LEGEND



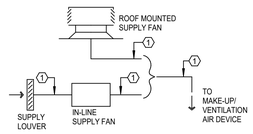
DUCT LINER AND INSULATION



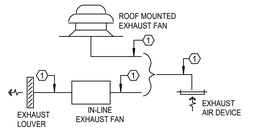
MULTI-ZONE AIR HANDLING UNITS



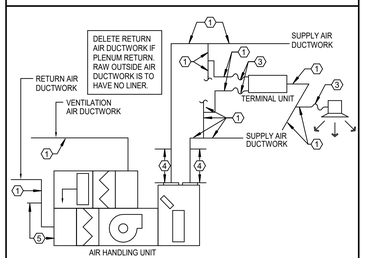
MULTI-ZONE AIR HANDLING UNITS W/ SPLIT DEHUMIDIFICATION UNITS



MAKE-UP/VENTILATION AIR SYSTEMS



EXHAUST AIR SYSTEMS



DUAL DUCT VARIABLE AIR VOLUME AIR HANDLING UNITS W/ SPLIT DEHUMIDIFICATION UNITS

KEYED NOTES:
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.
6. EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.
7. SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

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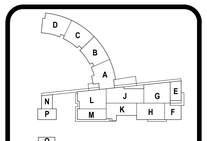
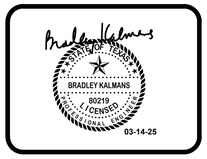


KEY PLAN
NORTH: PLAN TRUE



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DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

BUILDING NUMBER

MECHANICAL DETAILS, AND LEGENDS

M-401

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0"
1"

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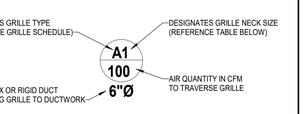
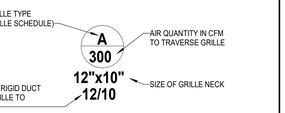
GRILLE SIZING SCHEDULE

STANDARD GRILLE



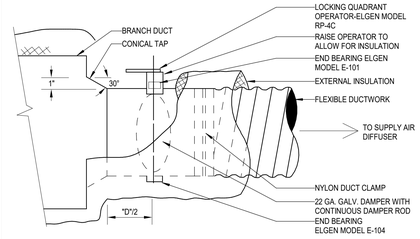
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE

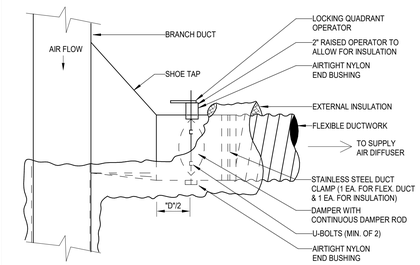


ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

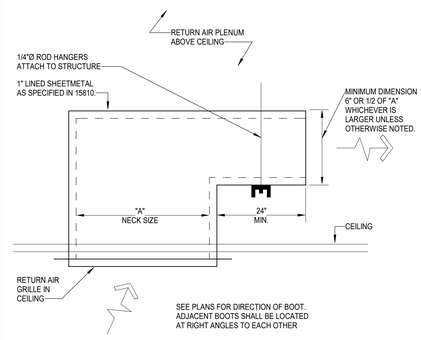
GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"



4 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



3 FLEXIBLE DUCT TAP - SHOE
SCALE: NONE



2 RETURN AIR GRILLE BOOT
SCALE: NONE

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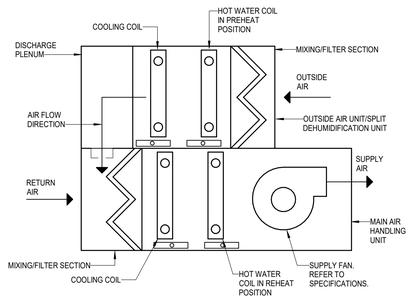
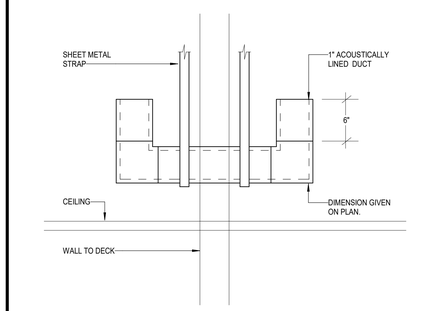
REFER TO SPECIFICATIONS FOR ACCESS DOOR LOCATIONS.



AHU WITH SPLIT DEHUMIDIFICATION UNIT DIAGRAM1
6
SCALE: NONE



1 TRANSFER AIR DUCT
SCALE: NONE

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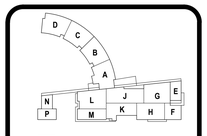
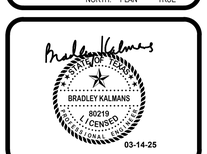


KEY PLAN
NORTH: PLAN TRUE



CLIENT
CFISD

DATE	PROJECT NUMBER
03/10/2025	240059

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

BUILDING NUMBER

MECHANICAL DETAILS, AND LEGENDS

M-402

File Path: Autodesk Docs://CFISD_240059_CyPark HS Reno/AR23_CFISD_CyPark HS Reno-MEPT_R23.rvt
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0"
1"

MECHANICAL SCHEDULES
M-501
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

AIR HANDLING UNIT

MARK	FAN							COOLING							HEATING					PIPE SIZE TO COIL (IN.)		BASIS OF DESIGN				REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	CURRENT V	CURRENT PH	CURRENT F	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	AIR TEMPERATURE (°F) LEAVING DRY BULB	AIR TEMPERATURE (°F) LEAVING WET BULB	WATER ENTERING TEMP (°F)	WATER GPM	WATER PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	WATER ENTERING TEMP. (°F)	WATER GPM	WATER PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER	MANUFACTURER	MODEL	MCA	MOCP	
AHU-75	1,260	400	1.50	1.5	480	3	60	75.0	62.5	52.9	52.1	45	6.3	15.0	72.0	38,821	130.0	3.9	10.0	1"	1"	-	-	-1	-1	1,4,5,6,7,9,12,14,15
AHU-75A	400	400						98.0	80.0	53.0	52.0	45	6.6	15.0	72.0	18,662	130.0	1.9	10.0	1 1/4"	3/4"	-	-	0	20	2,4,5,8,10,12,15,17,18

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.
2. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL.
3. PROVIDE VERTICAL UNIT.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE VARIABLE VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.
6. PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.
7. PROVIDE FRONT DISCHARGE.
8. PROVIDE TOP DISCHARGE.
9. PROVIDE TWO-WAY COOLING CONTROL VALVES.
10. PROVIDE THREE-WAY COOLING CONTROL VALVES.
11. PROVIDE TWO-WAY HEATING CONTROL VALVES.
12. PROVIDE THREE-WAY HEATING CONTROL VALVES.
13. PROVIDE HOT WATER COIL IN REHEAT POSITION.
14. PROVIDE HOT WATER COIL IN REHEAT POSITION.
15. PROVIDE UNIT WITH ANGLED FILTER SECITON.
16. PROVIDE UNIT WITH FLAT FILTER SECTION.
17. VELOCITY NOT TO EXCEED 700 FPM ON COOLING COIL.
17. UNIT INDICATED SHALL BE STACKED OAU FURNISHED WITH ASSOCIATED AHU (LISTED ABOVE). UNIT INCLUDES ANGLED FILTER MIXING BOX, PREHEAT COIL, ACCESS SPACE, COOLING COIL AND DISCHARGE PLENUM. UNIT DOES NOT HAVE FAN SECTION. SPLIT DEHUMIDIFICATION UNIT SHALL DELIVER OUTSIDE AIR TO MIXING BOX SECTION OF MAIN AIR HANDLER UNIT UPSTREAM OF COIL.
18. SPLIT DEHUMIDIFICATION UNIT TO BE MOUNTED ON TOP OF ASSSOCIATED AHU.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	-	TITUS	TDC	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" LOUVERED FACE
B	RETURN AIR	GRILLE	-	STEEL	-	TITUS	350 (1)	SINGLE DEFLECTION GRILLE WITH HORIZONTAL FRONT BARS. LAY-IN WITH 24"X24" FACE.
C	EXHAUST AIR	DIFFUSER	-	STEEL	(1)	TITUS	350	SINGLE DEFLECTION GRILLE WITH HORIZONTAL FRONT BARS. LAY-IN WITH 24"X24" FACE.

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

RELIFE VENT & O.A. INTAKE

MARK	CFM	MAX S.P. (IN.)	MIN. THROAT AREA	MODEL NUMBER	SERVES	REMARKS
OAI-1	400	0.1	1.5	GI	AHU-1A	1,2,3

REMARKS
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER.

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	CURRENT CHAR P	CURRENT CHAR F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-75	ART D1103	820	0.50	1103	0.25	120	1	60	60 MIN TIMER (1)	-	INLINE	DIRECT	COOK	SQND	(1) 1,2,3,4,5
EF-76	STORAGE D1300	150	0.50	1420	0.25	120	1	60	-	AHU-38	INLINE	DIRECT (1)	COOK	SQND	1,2,3,4,5
SF-15	MECHANICAL L1372	400	0.50	1500	0.25	120	1	60	-	AHU-75	INLINE	DIRECT	COOK	SQND	1,2,3,4,5

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. ~~PROVIDE WITH MOTORIZED DAMPER.~~ (1)
3. PROVIDE WITH EC MOTOR.
4. PROVIDE WITH SPEED CONTROLLER.
5. SUSPEND FAN FROM STRUCTURE WITH FOUR THREADED RODS AND UNISTRUT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	CURRENT CHARAC. PH	CURRENT CHARAC. F	RELATED UNIT MARK	REMARKS
DMSCU-1	17,100	90	-/15.2	120	1	60	DMS-1	1,2,3

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

DUAL DUCT TERMINAL BOX

MARK	COOLING CFM MAX.	COOLING CFM MIN.	COOLING INLET DIAMETER SIZE (IN.)	HEATING MAXIMUM CFM	HEATING INLET DIAMETER SIZE (IN.)	REMARKS
DDB-37-01	1,440	460	12	1155	12	-

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" W.G.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
4. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. N/A

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	FAN OUTSIDE AIR CFM	FAN EXT.STATIC PRESSURE (IN. W.C.)	FAN HORSE POWER (WATTS)	CURRENT CHARAC. V	CURRENT CHARAC. P	CURRENT CHARAC. F	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	COOLING MIN. SENS. CAPACITY (BTUH)	COOLING MINIMUM EER/ SEER	REMARKS
DMS-1	370	0	0.10	40.0	208	1	60	75.0	62.5	17,100	13,680	/15.2-	1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
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REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE INTEGRAL MINI SPLIT CONDENSATE PUMP KIT ASP-MA-UNI MINI AQUA BY ASPEN PUMPS OR EQUAL. CONDENSATE PUMP SHALL BE INSTALLED INSIDE HIGH WALL UNIT. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS.
6. PROVIDE CONDENSATE OVERFLOW SWITCH TO DEACTIVATE UNIT IN THE EVENT OF AN OVERFLOW CONDITION.

ISSUE FOR PROPOSAL

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Plot Stamp: 3/14/2025 11:28:20 AM

PBK

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TX Firm: BR 1608
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SALAS O'BRIEN
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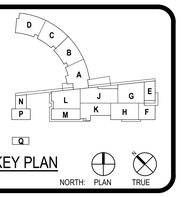
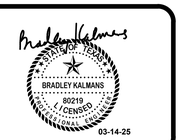
2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS - VOLUME 2

7425 Westgreen Blvd
Cypress, TX 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



CLIENT
CFISD
DATE 03/10/2025
PROJECT NUMBER 240059

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

BUILDING NUMBER

MECHANICAL SCHEDULES

M-501

ISSUE FOR PROPOSAL

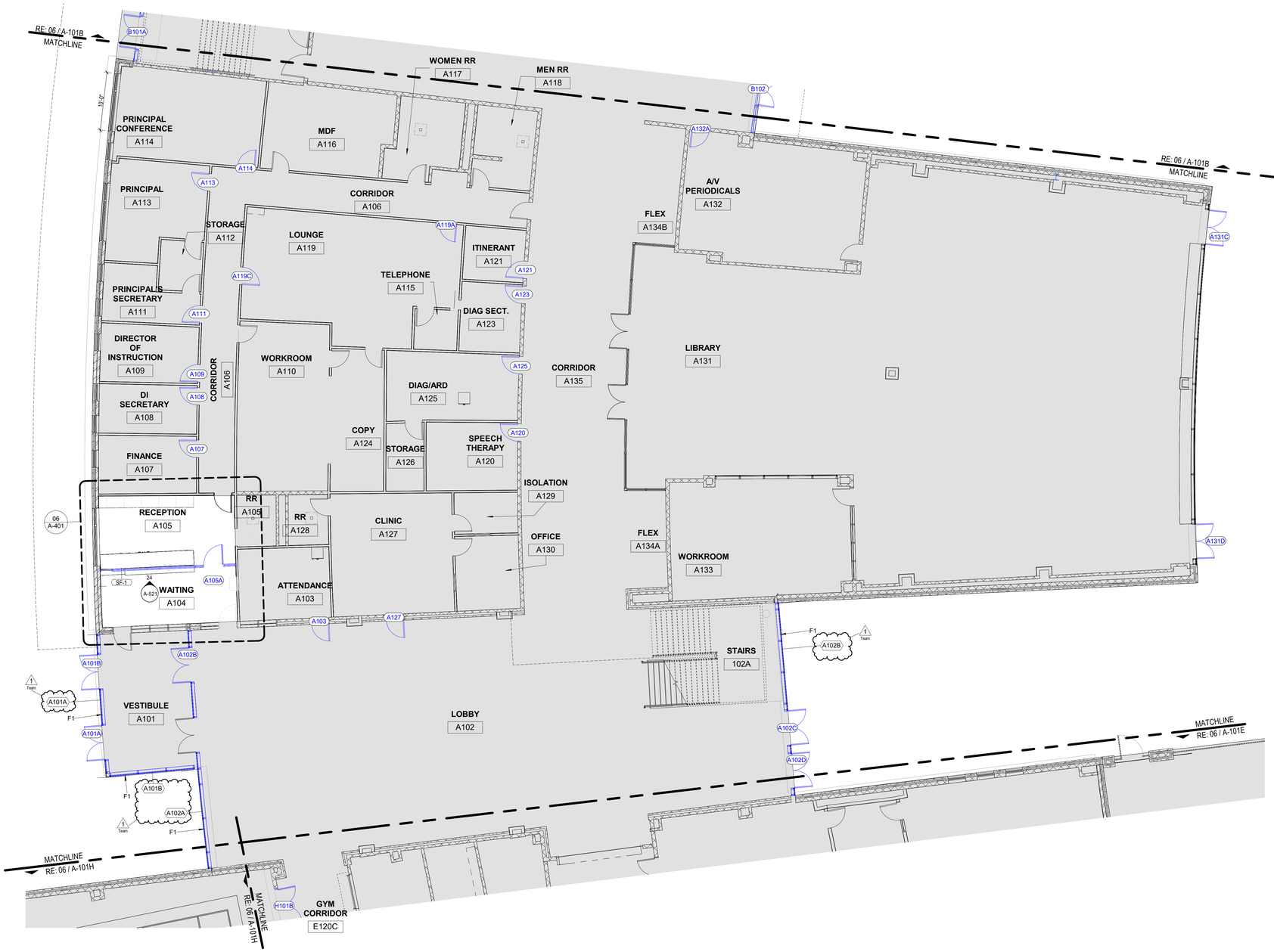
NEW DOOR SCHEDULE- FIRST FLOOR AREA A												
		PANEL				FRAME						
		SIZE W x H						DETAILS				
WT	DOOR ELEV.	W	H	MATL.	FINISH	MATL.	FINISH	HEAD	JAMB	SILL	FIRE RATING LABEL	REMARKS
A105A	HG-2	3' - 4"	6' - 11"	ALUM/GL	ALUM	ALUM	ALUM	22/A-521	21/A-521	26/A-521		2

Grand total: 1

WINDOW SCHEDULE - FIRST FLOOR AREA A								
			FRAME W X H		DETAILS			
Mark	ELEVATION	FRAME MATERIAL	Width	Height	HEAD	JAMB	SILL	Comments
SF-1	1.01	ALUM	23' - 5 13/16"	7' - 6 5/32"	22/A-521	21/A-521	26/A-521	

EXISTING DOOR SCHEDULE- FIRST FLOOR AREA A			
	DOOR PANEL		
	SIZE W x H		
wt	W	H	REMARKS
A101A	6' - 0"	6' - 10 1/2"	CARD READER
A101B	6' - 0"	6' - 10 1/2"	CARD READER
A102B	6' - 0"	6' - 10 1/2"	KEEP EXISTING CARD READER
A102C	6' - 0"	6' - 10 1/2"	
A102D	6' - 0"	6' - 10 1/2"	KEEP EXISTING CARD READER
A103	3' - 0"	6' - 10"	
A107	3' - 0"	6' - 10"	
A108	3' - 0"	6' - 10"	
A109	3' - 0"	6' - 10"	
A111	3' - 0"	6' - 10"	
A113	3' - 0"	6' - 10"	
A114	3' - 0"	6' - 10"	
A119A	3' - 0"	6' - 10"	
A119C	3' - 0"	6' - 10"	
A120	3' - 0"	6' - 10"	
A121	3' - 0"	6' - 10"	
A123	3' - 0"	6' - 10"	
A125	3' - 0"	6' - 10"	
A127	3' - 0"	6' - 10"	
A131C	6' - 0"	6' - 8 1/2"	
A131D	6' - 0"	6' - 8 1/2"	
A132A	3' - 0"	6' - 10"	

Grand total: 22



06 FIRST FLOOR PLAN - AREA 'A'
1/8" = 1'-0"

1. ALL DIMENSIONS ARE TO FACE OF THE FINISHED WALL UNLESS NOTED OTHERWISE.
2. AT ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 1:50.
3. ALL DOORS IN INTERIOR CMU WALLS AND EXTERIOR BRICK WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS IN GYP. BD. STUD WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR OR DOOR CONFLICTS WITH TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIREMENTS.
4. FIELD VERIFY THAT AREAS TO BE PAINTED RECEIVE PAINT SPECIFIED FOR THE INTENDED SURFACES PER SPECIFICATIONS.
5. NOTES INDICATED AS "RE: STRUCTURE.", "RE: SPEC.", "RE: MFR'S DOC", AND ETC. ARE TO REFER TO OTHER CONSTRUCTUREION DOC/SOURCES FOR ADDITIONAL INFORMATION.
6. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS NOTED OTHERWISE.
7. REFER TO SCHEDULE SHEETS FOR ROOM FINISH SCHEDULES AND NOTES.
8. FRAME DIMENSIONS SHOWN ON DRAWINGS & SCHEDULES ARE WALL OPENING DIMENSIONS. ACTUAL FRAMES SIZES SHALL BE LESS DUE TO SHIMS/JOINTS, AND ETC....FIELD VERIFICATION REQUIRED.
9. ALL INTERIOR PARTITIONS REFER TO SHEET A-521.
10. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
11. PROVIDE SELF-LEVELING CONCRETE UNDERLAYMENT WHERE UNEVEN EXISTING CONCRETE SLAB REQUIRED - PRIOR TO INSTALLING FLOOR FINISHES, TYPICAL.
12. INTERIOR CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.
13. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
14. BUILDING FLOOR PLAN DIMENSIONS ARE REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
15. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
16. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
17. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND OR MANUFACTURERS.
18. DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
19. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
20. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
21. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO RECEIVE INTUMESCENT PAINT.

19 GENERAL ARCH PLAN NOTES
NOT TO SCALE

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM. GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

01 FLOORPLAN LEGEND
1/8" = 1'-0"

PBK

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21002 PARK ROW DR.
KATY, TX 77449
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STRUCTURE
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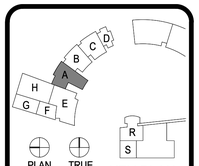
MEPT
DALAS O'BRIEN
10930 W. SAM HOUSTON PKWY NORTH, SUITE 900
HOUSTON, TX 77064
PHONE NO. 281-664-1900

CYPRESS-FAIRBANKS ISD
2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3
7425 Westgreen Blvd, Cypress, TX, 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • BELIEVE



SEAL AND REGISTRATION NUMBER HERE

03/10/2025

CLIENT
CFISD
PROJECT NUMBER
240059
DATE: 03/10/2025
DRAWN BY: CAZ
CHECKED BY: B.B.
REVISIONS

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

1ST FLOOR PLAN & SCHEDULES - AREA A

A-101A

Autodesk Docs://CFISD_240059_CyPark HS Reno/16275_MS19_Arch_A_Central_V21_CA_detached.rvt
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DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

EXISTING DOOR SCHEDULE- FIRST FLOOR AREA B

				DOOR PANEL				DOOR FRAME					DETAILS					
MARK	LEVEL	AREA	Door Elevation	PAIR/ SING	SIZE W x H W	H	MATL.	ELEV.	W	H	MATL.	TYP E	SILL	JAMB	HEAD	FIRE RATING LABEL	REMARKS
B101A	1st FLOOR	B	FG		5' - 6"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540		KEEP EXISTING CARD READER
B102	1st FLOOR	B	FG		5' - 6"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540		KEEP EXISTING CARD READER

Grand total: 2

06 FIRST FLOOR PLAN - AREA 'B'
1/8" = 1'-0"

1. ALL DIMENSIONS ARE TO FACE OF THE FINISHED WALL UNLESS NOTED OTHERWISE.
2. AT ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 1:50.
3. ALL DOORS IN INTERIOR CMU WALLS AND EXTERIOR BRICK WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS IN GYP. BD. STUD WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR OR DOOR CONFLICTS WITH TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIREMENTS.
4. FIELD VERIFY THAT AREAS TO BE PAINTED RECEIVE PAINT SPECIFIED FOR THE INTENDED SURFACES PER SPECIFICATIONS.
5. NOTES INDICATED AS "RE: STRUCTURE.", "RE: SPEC.", "RE: MFR'S DOC", AND ETC. ARE TO REFER TO OTHER CONSTRUCTUREION DOC/SOURCES FOR ADDITIONAL INFORMATION.
6. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS NOTED OTHERWISE.
7. REFER TO SCHEDULE SHEETS FOR ROOM FINISH SCHEDULES AND NOTES.
8. FRAME DIMENSIONS SHOWN ON DRAWINGS & SCHEDULES ARE WALL OPENING DIMENSIONS. ACTUAL FRAMES SIZES SHALL BE LESS DUE TO SHIMS/JOINTS, AND ETC…FIELD VERIFICATION REQUIRED.
9. ALL INTERIOR PARTITIONS REFER TO SHEET A-521.
10. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
11. PROVIDE SELF-LEVELING CONCRETE UNDERLAYMENT WHERE UNEVEN EXISTING CONCRETE SLAB REQUIRED - PRIOR TO INSTALLING FLOOR FINISHES, TYPICAL.
12. INTERIOR CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.
13. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
14. BUILDING FLOOR PLAN DIMENSIONS ARE REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
15. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
16. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
17. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND OR MANUFACTURERS.
18. DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
19. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
20. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
21. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO RECEIVE INTUMESCENT PAINT.

19 GENERAL ARCH PLAN NOTES
NOT TO SCALE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
DOOR IN SCOPE
EXISTING DOOR NOT IN CONTRACT
WINDOW IN SCOPE
EXISTING WINDOW NOT IN CONTRACT

01 FLOORPLAN LEGEND
1/8" = 1'-0"

PBK

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KUBALA ENGINEERS
11 GREENWAY PLAZA, SUITE 1510
HOUSTON, TEXAS 77046
PHONE NO. 713-840-3343

MEPT
SALAS O'BRIEN
10930 W. SAM HOUSTON PKWY NORTH, SUITE 900
HOUSTON, TX 77064
PHONE NO. 281-664-1900

CYPRESS-FAIRBANKS ISD
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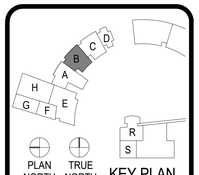
7425 Westgreen Blvd, Cypress, TX, 77433
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • BELIEVE



SEAL AND REGISTRATION NUMBER HERE
BRANDON D. MOORE
REGISTERED ARCHITECT
STATE OF TEXAS
03/10/2025

CLIENT
CFISD
PROJECT NUMBER
240059
DATE: 03/10/2025
DRAWN BY: CAZ
CHECKED BY: B.B.
REVISIONS

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

1ST FLOOR PLAN & SCHEDULES - AREA B

A-101B

ISSUE FOR PROPOSAL

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

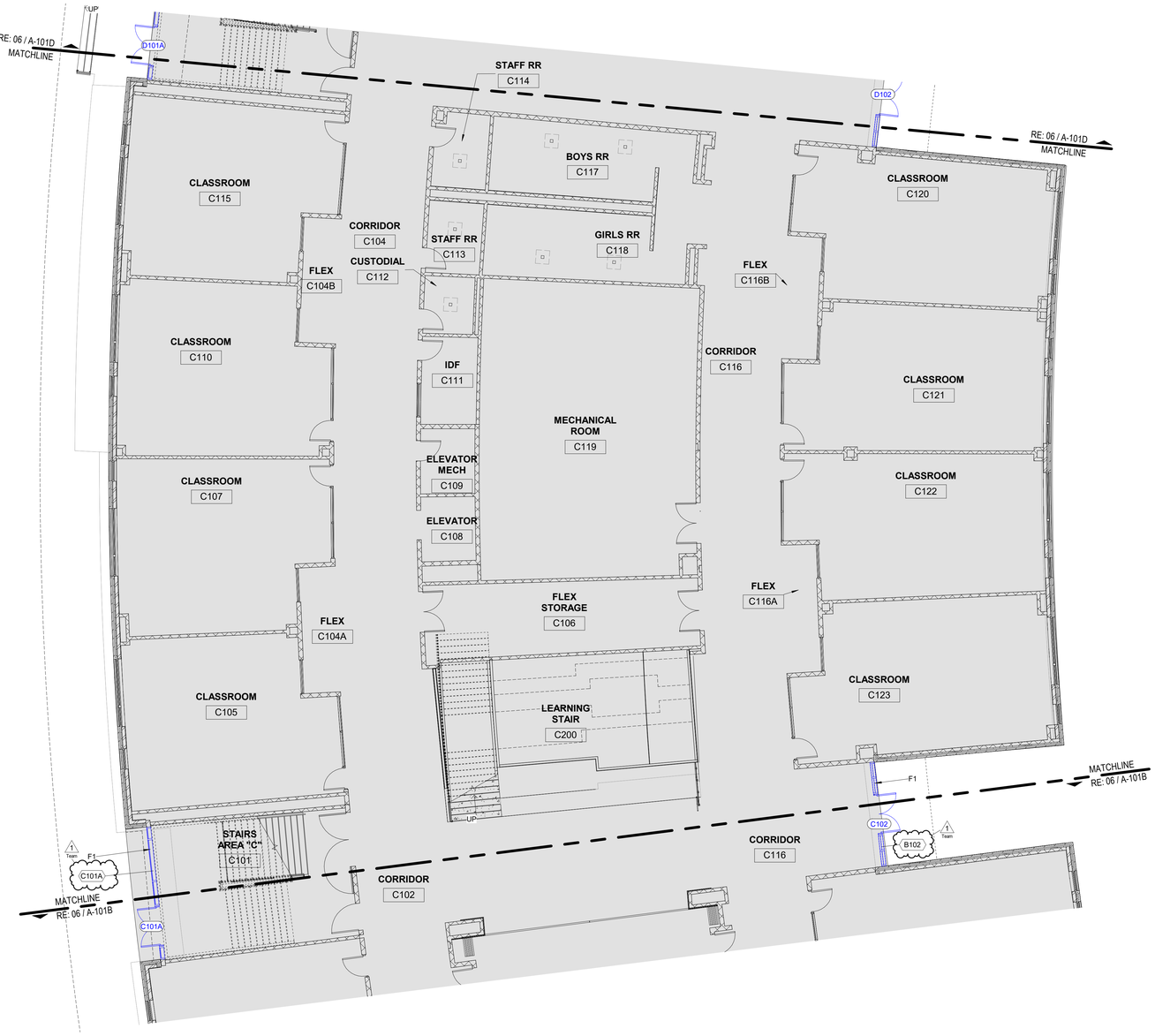
OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
15. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

EXISTING DOOR SCHEDULE- FIRST FLOOR AREA C

			Door	DOOR PANEL				DOOR FRAME					DETAILS					CTRL	FIRE		
			Elevatio	PAIR/	SIZE W x H							TYP				H.W	ACCES	RATING		
wt	LEVEL	AREA	n	SING	W	H	MATL	ELEV.	W	H	MATL	E	SILL	JAMB	HEAD		S	LABEL	HW SET	REMARKS
C101A	1st FLOOR	C	FG		5' - 6"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540					KEEP EXISTING CARD READER
C102	1st FLOOR	C	FG		5' - 6"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540					KEEP EXISTING CARD READER

Grand total: 2



06 FIRST FLOOR PLAN - AREA 'C'
1/8" = 1'-0"

1. ALL DIMENSIONS ARE TO FACE OF THE FINISHED WALL UNLESS NOTED OTHERWISE.
2. AT ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 1:50.
3. ALL DOORS IN INTERIOR CMU WALLS AND EXTERIOR BRICK WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS IN GYP. BD. STUD WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR OR DOOR CONFLICTS WITH TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIREMENTS.
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5. NOTES INDICATED AS "RE: STRUCTURE.", "RE: SPEC.", "RE: MFR'S DOC", AND ETC. ARE TO REFER TO OTHER CONSTRUCTUREION DOC/SOURCES FOR ADDITIONAL INFORMATION.
6. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS NOTED OTHERWISE.
7. REFER TO SCHEDULE SHEETS FOR ROOM FINISH SCHEDULES AND NOTES.
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9. ALL INTERIOR PARTITIONS REFER TO SHEET A-521.
10. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
11. PROVIDE SELF-LEVELING CONCRETE UNDERLAYMENT WHERE UNEVEN EXISTING CONCRETE SLAB REQUIRED - PRIOR TO INSTALLING FLOOR FINISHES, TYPICAL.
12. INTERIOR CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.
13. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
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21. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO RECEIVE INTUMESCENT PAINT.

19 GENERAL ARCH PLAN NOTES
NOT TO SCALE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM, GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
DOOR IN SCOPE
EXISTING DOOR NOT IN CONTRACT
WINDOW IN SCOPE
EXISTING WINDOW NOT IN CONTRACT

01 FLOORPLAN LEGEND
1/8" = 1'-0"

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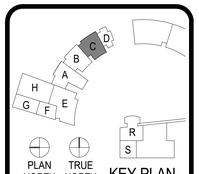

SEAL AND REGISTRATION NUMBER HERE

03/10/2025

CLIENT
CFISD

PROJECT NUMBER
240059

DATE:	03/10/2025
DRAWN BY:	CAZ
CHECKED BY:	B.B.

REVISIONS

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

1ST FLOOR PLAN & SCHEDULES - AREA C

A-101C

ISSUE FOR PROPOSAL

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ISSUE FOR PROPOSAL

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

10. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
11. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
12. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
13. MANUAL OPERATION
14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
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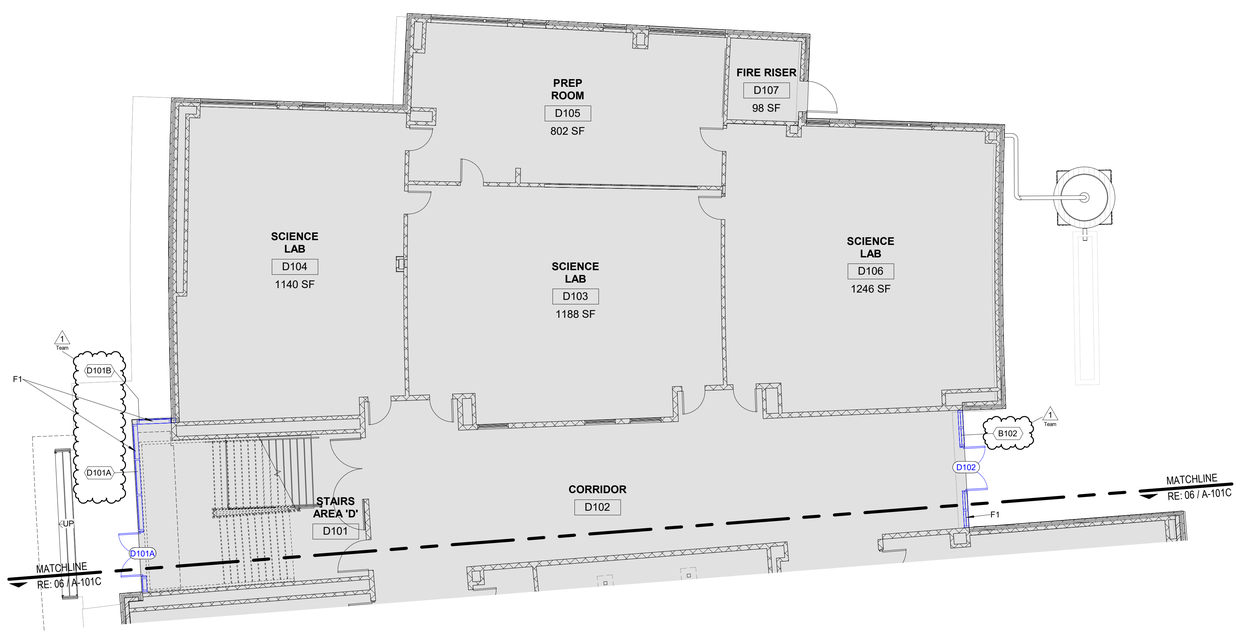
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

EXISTING DOOR SCHEDULE- FIRST FLOOR AREA D

MARK	LEVEL	AREA	Door Elevation	DOOR PANEL				DOOR FRAME					DETAILS			H.W.	CTRL ACCESS	FIRE RATING LABEL	HW SET	REMARKS
				PAIR/ SING	SIZE W x H W	SIZE W x H H	MATL	ELEV.	W	H	MATL.	TYPE	SILL	JAMB	HEAD					
D101A	1st FLOOR	D	FG		5' - 8"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540					KEEP EXISTING CARD READER
D102	1st FLOOR	D	FG		5' - 8"	6' - 8"	AL				AL		-	Ref. W.E.	21/A-540					KEEP EXISTING CARD READER

Grand total: 2



06 FIRST FLOOR PLAN - AREA 'D'
1/8" = 1'-0"

1. ALL DIMENSIONS ARE TO FACE OF THE FINISHED WALL UNLESS NOTED OTHERWISE.
2. AT ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 1:50.
3. ALL DOORS IN INTERIOR CMU WALLS AND EXTERIOR BRICK WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS IN GYP. BD. STUD WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR OR DOOR CONFLICTS WITH TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIREMENTS.
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19 GENERAL ARCH PLAN NOTES
NOT TO SCALE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
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07 KEY NOTES

FLOORPLAN LEGEND

- NOT IN CONTRACT
- DOOR IN SCOPE
- EXISTING DOOR NOT IN CONTRACT
- WINDOW IN SCOPE
- EXISTING WINDOW NOT IN CONTRACT

01 FLOORPLAN LEGEND
1/8" = 1'-0"

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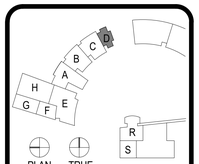
LEARN • EMPOWER • ACHIEVE • BELIEVE



SEAL AND REGISTRATION NUMBER HERE

03/10/2025

CLIENT
CFISD
PROJECT NUMBER
240059
DATE: 03/10/2025
DRAWN BY: CAZ
CHECKED BY: B.B.
REVISIONS

No.	Description	Date
1	ADDENDUM 1	03/14/25

ISSUE FOR PROPOSAL

1ST FLOOR PLAN & SCHEDULES - AREA D

A-101D

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

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14. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
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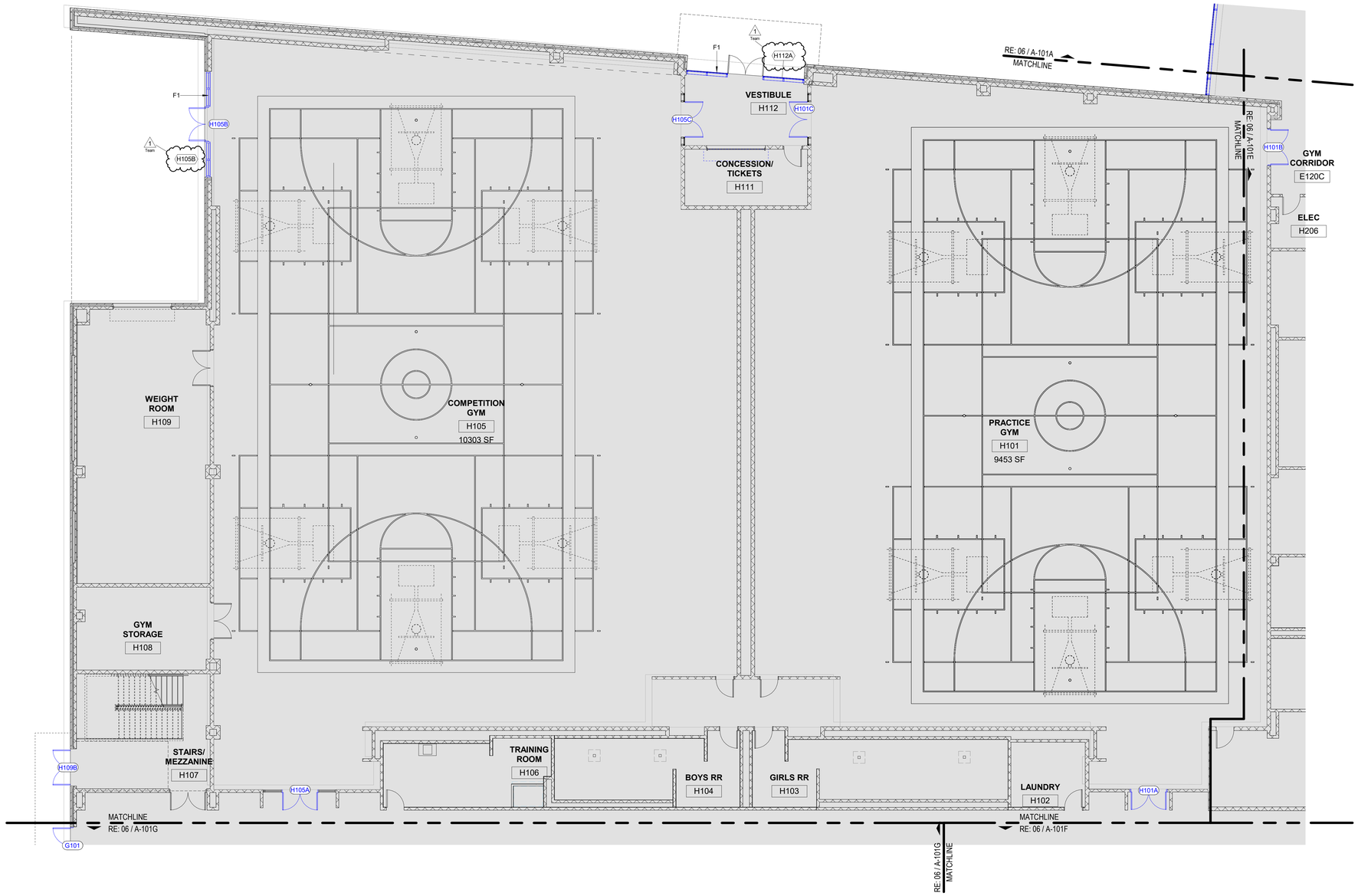
16. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
17. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
18. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

EXISTING DOOR SCHEDULE- FIRST FLOOR AREA H

wt	LEVEL	AREA	Door Elevation	DOOR PANEL PAIR/SING	DOOR PANEL SIZE W	DOOR PANEL SIZE H	Door Material	DOOR FRAME ELEV.	DOOR FRAME W	DOOR FRAME H	DOOR FRAME MATL.	DOOR FRAME TYPE	DETAILS SILL	DETAILS JAMB	DETAILS HEAD	H.W.	CTRL ACCESS	FIRE RATING LABEL	HW SET	REMARKS
H101A	1st FLOOR	H	F		6' - 0"	6' - 10"	HM		6' - 4"	7' - 0"	HM	-		4/A-540	10/A-540					
H101B	1st FLOOR	H	F		6' - 0"	6' - 10"	HM		6' - 4"	7' - 0"	HM	-		4/A-540	10/A-540					
H101C	1st FLOOR	H	FG		6' - 1"	4' - 10"	AL				AL									
H105A	1st FLOOR	H	F		6' - 0"	6' - 10"	HM		6' - 4"	7' - 0"	HM	-		4/A-540	10/A-540					
H105B	1st FLOOR	H	FG		5' - 8"	6' - 8"						-		Ref. W.E.	21/A-540					
H105C	1st FLOOR	H	FG		6' - 1"	4' - 10"	AL				AL									
H109B	1st FLOOR	H	F		6' - 0"	6' - 10"	HM		6' - 4"	7' - 0"	HM	-		20/A-541	10/A-540					

Grand total: 7



06 FIRST FLOOR PLAN - AREA 'H'
1/8" = 1'-0"

1. ALL DIMENSIONS ARE TO FACE OF THE FINISHED WALL UNLESS NOTED OTHERWISE.
2. AT ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 1:50.
3. ALL DOORS IN INTERIOR CMU WALLS AND EXTERIOR BRICK WALLS SHALL BE SET 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS IN GYP. BD. STUD WALLS SHALL BE SET 6" OFF THE PERPPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR OR DOOR CONFLICTS WITH TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIREMENTS.
4. FIELD VERIFY THAT AREAS TO BE PAINTED RECEIVE PAINT SPECIFIED FOR THE INTENDED SURFACES PER SPECIFICATIONS.
5. NOTES INDICATED AS "RE: STRUCTURE.", "RE: SPEC.", "RE: MFR'S DOC", AND ETC. ARE TO REFER TO OTHER CONSTRUCTUREION DOC/SOURCES FOR ADDITIONAL INFORMATION.
6. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS NOTED OTHERWISE.
7. REFER TO SCHEDULE SHEETS FOR ROOM FINISH SCHEDULES AND NOTES.
8. FRAME DIMENSIONS SHOWN ON DRAWINGS & SCHEDULES ARE WALL OPENING DIMENSIONS. ACTUAL FRAMES SIZES SHALL BE LESS DUE TO SHIMS/JOINTS, AND ETC....FIELD VERIFICATION REQUIRED.
9. ALL INTERIOR PARTITIONS REFER TO SHEET A-521.
10. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
11. PROVIDE SELF-LEVELING CONCRETE UNDERLAYMENT WHERE UNEVEN EXISTING CONCRETE SLAB REQUIRED - PRIOR TO INSTALLING FLOOR FINISHES, TYPICAL.
12. INTERIOR CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.
13. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
14. BUILDING FLOOR PLAN DIMENSIONS ARE REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
15. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
16. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
17. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND OR MANUFACTURERS.
18. DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
19. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
20. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
21. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO RECEIVE INTUMESCENT PAINT.

19 GENERAL ARCH PLAN NOTES
NOT TO SCALE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
F1	FILM. GL1 FILM APPLIED TO EXISTING STOREFRONT SYSTEM. CLEAN AND PREP SYSTEM BEFORE INSTALL. FILM IS TO BE STOPPED AT 7' AFF OR THE NEXT CLOSEST MULLION. FIELD VERIFY CONDITIONS.

07 KEY NOTES

FLOORPLAN LEGEND

NOT IN CONTRACT
DOOR IN SCOPE
EXISTING DOOR NOT IN CONTRACT
WINDOW IN SCOPE
EXISTING WINDOW NOT IN CONTRACT

01 FLOORPLAN LEGEND
1/8" = 1'-0"

FOR PROPOSAL

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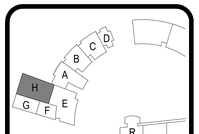

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03/10/2025

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PROJECT NUMBER
240059

DATE: 03/10/2025
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No.	Description	Date
1	ADDENDUM 1	03/14/25

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1ST FLOOR PLAN & SCHEDULES - AREA H

A-101H

GLAZING MATERIALS LEGEND

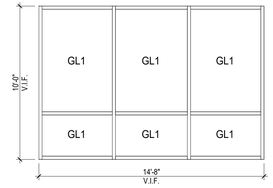
GL0
1" THERMALLY-INSULATED GLAZING UNIT, TYPE 1

GL1
LAMINATED GLAZING SAFETY GLAZING

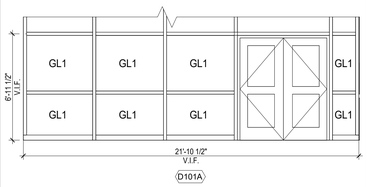
GL2
9/16" CHILDGUARD GLASS

GL3
1/4" CLEAR TEMPERED GLASS

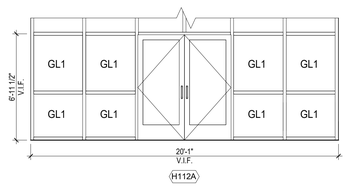
GL4
3/8" CHILDGUARD GLASS



13 AREA A - EXISTING STOREFRONT A101B
1/4" = 1'-0"



12 AREA D - EXISTING STOREFRONT D101A
1/4" = 1'-0"



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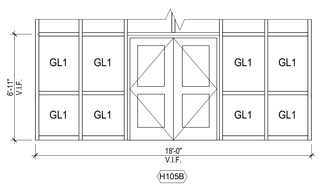

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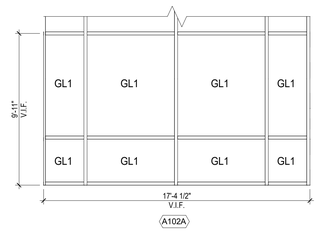

09 AREA A - EXISTING STOREFRONT A102A
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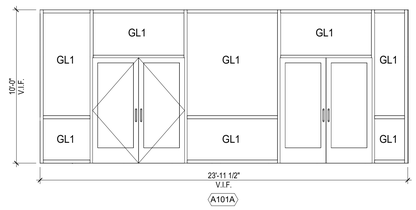
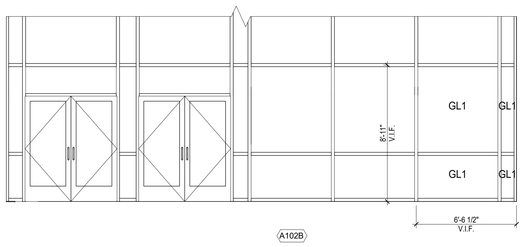


08 AREA A - EXISTING STOREFRONT A101A
1/4" = 1'-0"



06 AREA A - EXISTING STOREFRONT A102B
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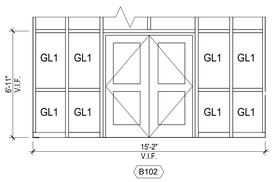

04 TYP. EXISTING STOREFRONT B102
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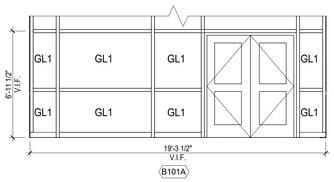
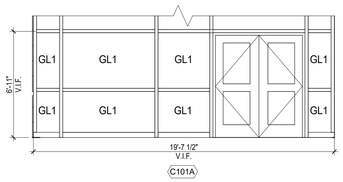
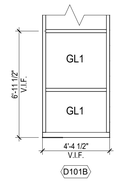


03 AREA B - EXISTING STOREFRONT B101A
1/4" = 1'-0"



02 AREA C - EXISTING STOREFRONT C101A
1/4" = 1'-0"



01 AREA D - EXISTING STOREFRONT D101B
1/4" = 1'-0"

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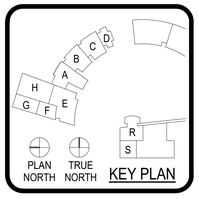

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PROJECT NUMBER
240059

DATE:	03/10/2025
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No.	Description	Date
1	ADDENDUM 1	03/14/25

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WINDOWS & STOREFRONT ELEVATIONS

1 Team

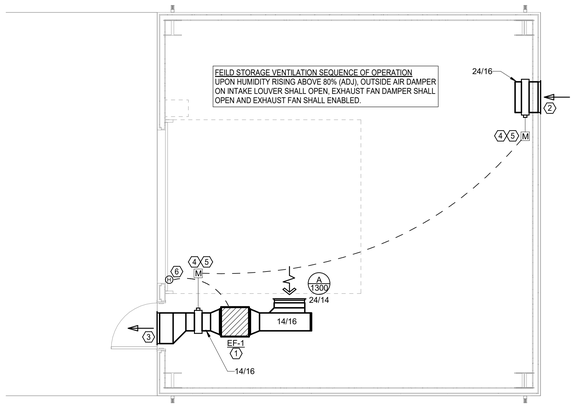
A-823

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES

1. VERIFY SERVICE CLEARANCES WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADE NOT TO OBSTRUCT.
2. PROVIDE 42"X 16" RUSKIN MODEL HZ700MD WIND-DRIVEN RAIN RESISTANT OUTSIDE AIR STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 1.93SQ. FT. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT.
3. PROVIDE 24"X 16" RUSKIN MODEL HZ700MD WIND-DRIVEN RAIN RESISTANT OUTSIDE AIR STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 0.96SQ. FT. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT.
4. MOTORIZED DAMPER TO BE INTERLOCKED WITH EF-2. INTERLOCK SHALL OPERATE AS FOLLOWS, WHEN EF-2 IS ENERGIZED THE DAMPER SHALL OPEN. WHEN EF-2 IS DE-ENERGIZED THE DAMPER SHALL CLOSE.
5. MOTORIZED DAMPER SHALL BE ON SAME 120V CIRCUIT AS ASSOCIATED EXHAUST FAN. REEFER TO ELECTRICAL.
6. PROVIDE LINE VOLTAGE HUMIDITY SENSOR AT LOCATION SHOWN.



1 **MECHANICAL PLAN - LEVEL 1 - STORAGE BUILDING**
Scale: 1/4" = 1'-0"

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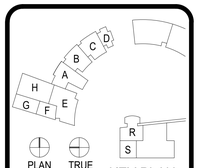

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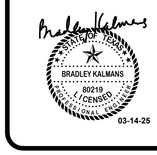

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240059

DATE: 03/14/2025
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REVISIONS

No.	Description	Date
1	Addendum #1	2025.03.14

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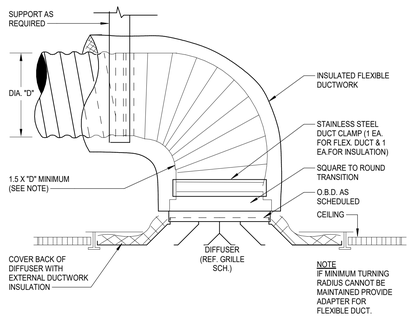
MECHANICAL FLOOR PLAN - LEVEL 1 - STORAGE BUILDING

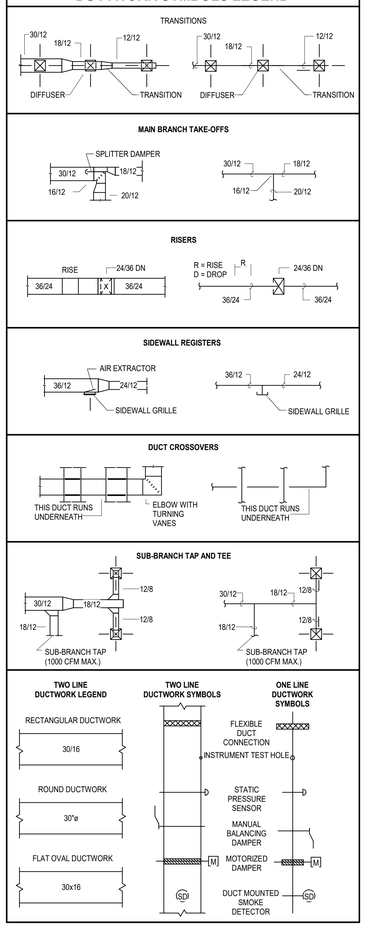
M-202



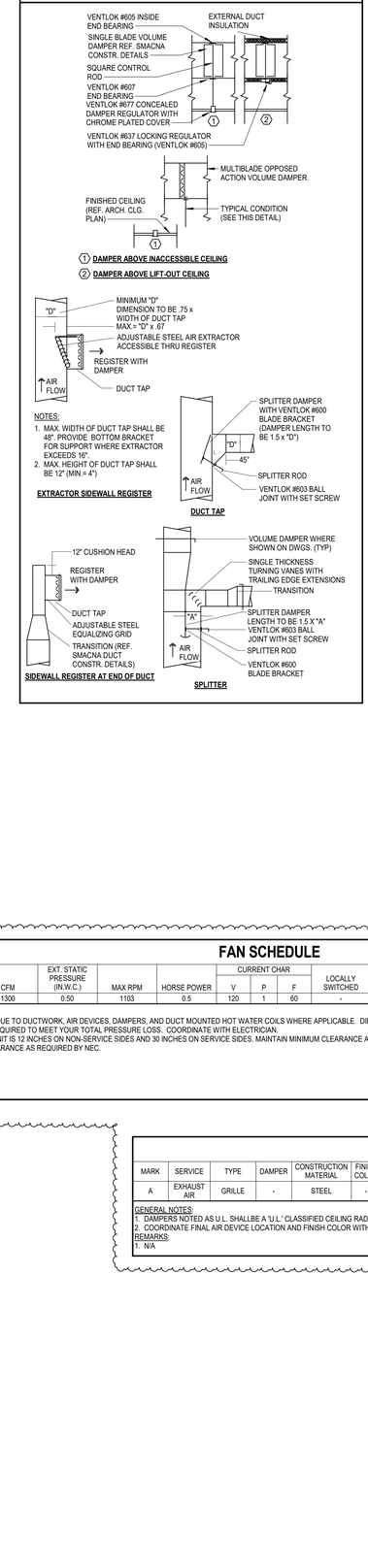
FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER

1 SCALE: NONE

DUCTWORK SYMBOLS LEGEND



DUCTWORK CONSTRUCTION DETAILS



SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(A)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
(SD)	SMOKE DAMPER (VERTICAL)
(SD)	SMOKE DAMPER (HORIZONTAL)
(FSD)	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
M	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
(T)	THERMOSTAT AND TEMPERATURE SENSOR
(H)	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
(-)	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	CURRENT CHAR P	CURRENT CHAR F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	STORAGE BUILDING	1300	0.50	1103	0.5	120	1	60	-	TSTAT	INLINE	BELT	COOK	SQNB	1,2,3,4

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH MOTORIZED DAMPER.
3. PROVIDE WITH SPEED CONTROLLER.
4. PROVIDE WITH EC MOTOR.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	EXHAUST AIR	GRILLE	-	STEEL	-	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

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PHONE NO. 281-578-9595

STRUCTURE
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HOUSTON, TEXAS 77046
PHONE NO. 713-840-3343

MEPT
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10930 W. SAM HOUSTON PKWY NORTH, SUITE 900
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PHONE NO. 281-664-1900

CYPRESS-FAIRBANKS ISD
2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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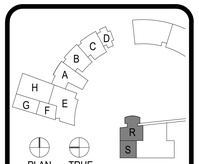

SEAL AND REGISTRATION NUMBER HERE

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
03-14-25

CLIENT
CFISD

PROJECT NUMBER
240059

DATE: 03/14/2025
DRAWN BY: KM
CHECKED BY: Checker

REVISIONS

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

MECHANICAL DETAILS, LEGENDS, AND SCHEDULE

M-301

1 **ELECTRICAL COMPOSITE FLOOR PLAN - LEVEL 1**
Scale: 1" = 30'-0"

PBK

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713-961-4571 F
TX Firm: F-1608
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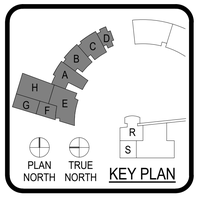
CYPRESS-FAIRBANKS ISD

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



SEAL AND REGISTRATION NUMBER HERE

CLIENT	CFISD
PROJECT NUMBER	240059
DATE:	03/14/2025
DRAWN BY:	DS
CHECKED BY:	Checker

REVISIONS

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

ELECTRICAL COMPOSITE FLOOR PLAN - LEVEL 1

E-100

Autodesk Docs://CFISD_240059_CyPark HS Reno/CY FAIR -ROWE MS _MEPT.rvt
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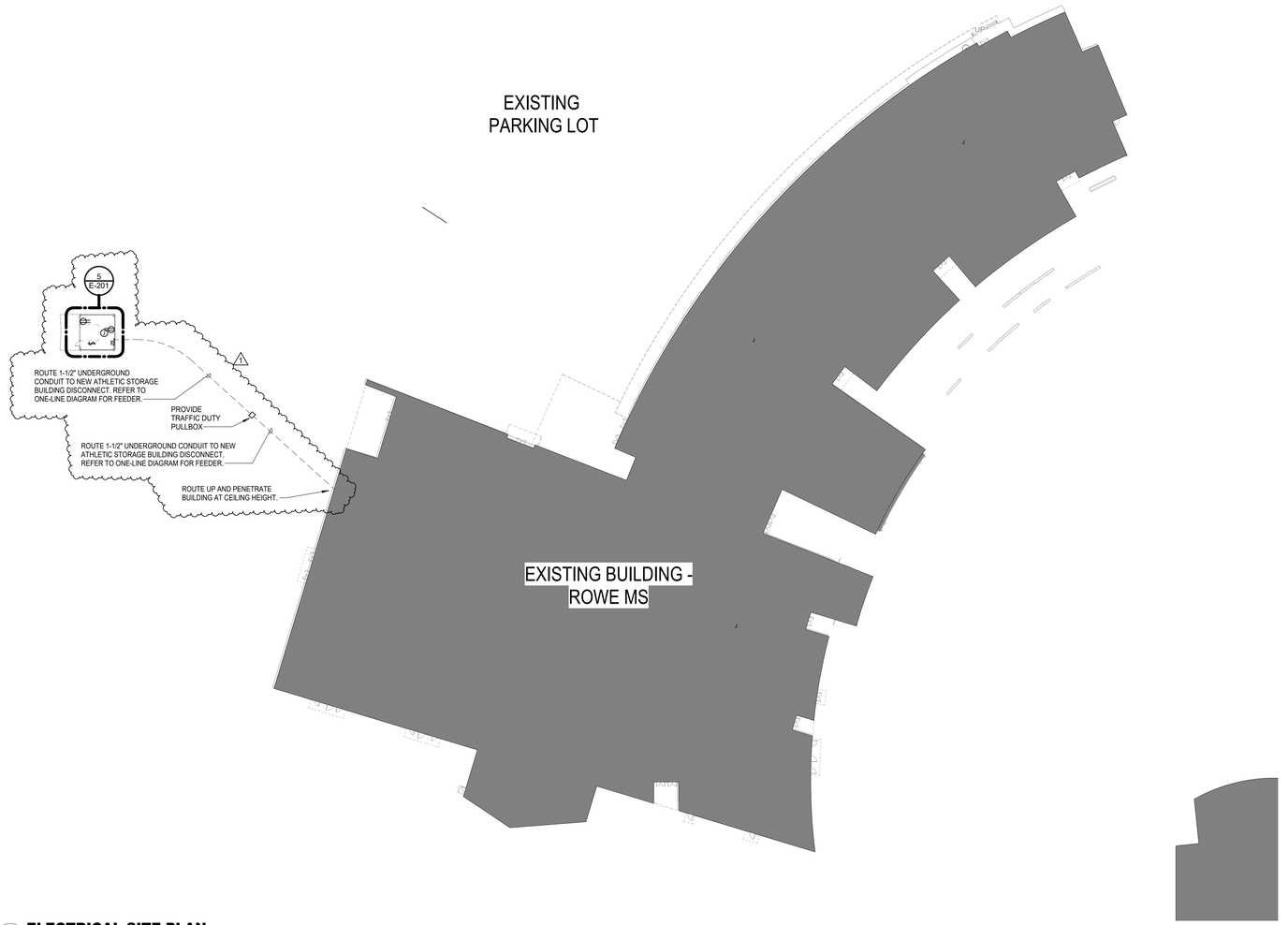

1 ELECTRICAL SITE PLAN

Scale: 1" = 40'-0"

PBK

ARCHITECTURE

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11 Greenway Plaza, 22nd Floor
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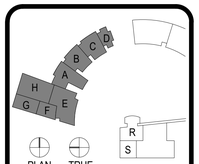
CYPRESS-FAIRBANKS ISD

2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



SEAL AND REGISTRATION NUMBER HERE

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
03-14-25

CLIENT	CFISD
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ISSUE FOR PROPOSAL

ELECTRICAL SITE PLAN

E-101

WHERE ANY NEW WALL TERMINATES AT THE SAME LOCATION AS AN EXISTING WALL MOUNTED ELECTRICAL AND TECHNOLOGY DEVICE, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE.

PROVIDE NEW POWER 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.

WHERE ANY EXISTING JUNCTION BOX AND/OR PULLBOX IS LOCATED AT A NEW NON-ACCESSIBLE CEILING AREA, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT ABOVE NEAREST ACCESSIBLE CEILING AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

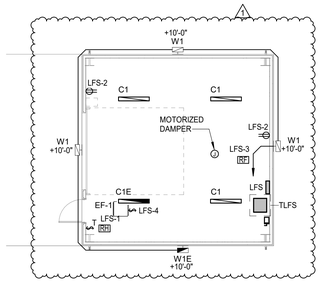
TEMPORARILY DISCONNECT AND REMOVE ALL CEILING / WALL MOUNTED ELECTRICAL AND FIRE ALARM DEVICES FOR AREAS THAT REQUIRE CEILING / WALL REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY, FIRE ALARM, FIRE SPRINKLERS AND PLUMBING SCOPE OF WORK. AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

ELECTRICAL GENERAL NOTES:

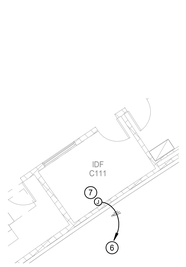
1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, RELAY PANELS ETC., SHALL REMAIN.
2. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBINGDRAWINGS FOR EXACT LOCATION OF MECHANICAL ANDPLUMBING EQUIPMENT AND SCHEDULES. CONTRACTORSHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
4. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURES AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 15-AMPERES. (TYPICAL)
7. 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-ACCESIBLE 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 SPECIFICATION SECTION 26 05 33 CONDUIT SYSTEMS.
8. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES WHERE INDICATED. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
9. LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH ABOVE ACCESSIBLE CEILING 12-FEET AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE; IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
10. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.
11. PROVIDE A CONSTANT HOT FOR NEW EXIT SIGNAGE LOCATIONS FROM EMERGENCY CIRCUITRY SERVING SPACE.

ELECTRICAL KEYED NOTES:

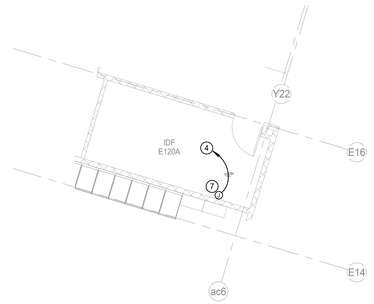
1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS CEILING DEVICES FOR DEMOLITION OF EXISTING CEILING. PROVIDE NEW LIGHT FIXTURES AS SHOWN AND CONNECT TO EXISTING CIRCUITRY. EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.
2. EXISTING LIGHTING CONTROL DEVICE. RE-CONNECT TO EXISTING LIGHTING CONTROLLER. REFER TO DETAILS.
3. NEW LIGHTING CONTROL DEVICE. CONNECT TO EXISTING LIGHTING CONTROLLER. REFER TO DETAILS.
4. ROUTE 2#12,1#12G,.3/4"C. TO NEW 20A/1P CIRCUIT BREAKER IN PANEL ELLN. PROVIDE WITH LOCK-ON DEVICE.
5. ROUTE 2#12,1#12G,.3/4"C. TO NEW 20A/1P CIRCUIT BREAKER IN PANEL ELLH. PROVIDE WITH LOCK-ON DEVICE.
6. ROUTE 2#12,1#12G,.3/4"C. TO NEW 20A/1P CIRCUIT BREAKER IN PANEL ELLB. PROVIDE WITH LOCK-ON DEVICE.
7. PROVIDE A JUNCTION BOX FOR CONNECTION OF ACCESS CONTROL PANEL. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.
8. DISCONNECT AND REMOVE WIRING DEVICES ASSOCIATED WITH THE DEMOLITION OF EXISTING RECEPTION DESK BACK TO NEAREST ACTIVE JUNCTION BOX, LEAVE CIRCUIT(S) INTACT FOR RE-USE.
9. CONNECT TO EXISTING CIRCUIT PRESERVED DURING DEMOLITION, EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.



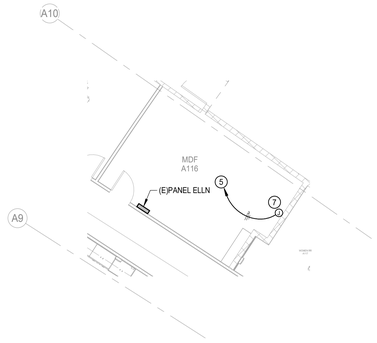
5 **ELECTRICAL PLAN - STORAGE BUILDING**
Scale: 1/8" = 1'-0"



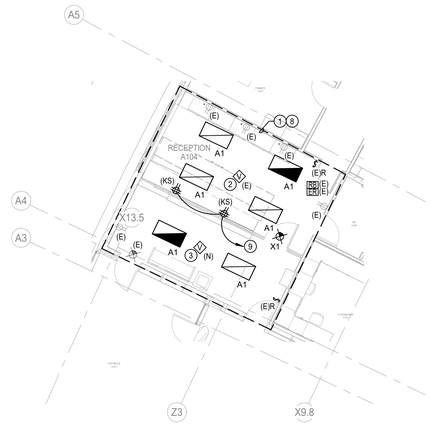
4 **ELECTRICAL PLAN - IDF C111**
Scale: 1/8" = 1'-0"



2 **ELECTRICAL PLAN - IDF E120A**
Scale: 1/8" = 1'-0"



3 **ELECTRICAL PLAN - MDF A116**
Scale: 1/8" = 1'-0"



1 **ELECTRICAL FLOOR PLAN - LEVEL 1 - RECEPTION**
Scale: 1/8" = 1'-0"

PBK

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CYPRESS-FAIRBANKS ISD
2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT

SEAL AND REGISTRATION NUMBER HERE

CLIENT	CFISD
PROJECT NUMBER	240059
DATE:	03/14/2025
DRAWN BY:	DS
CHECKED BY:	Checker

REVISIONS

No.	Description	Date
1	Addendum #1	2025.03.14

ISSUE FOR PROPOSAL

ELECTRICAL PLANS

E-201

Branch Panel: HB — EXISTING

Location: ELEC H206 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire	Circuit Description	CKT	Note
--	1	EXISTING LIGHTING	--	20	1	0.0 / 0.0			1	20	-- EXISTING LIGHTING	2	--
--	3	EXISTING LIGHTING	--	20	1		0.0 / 0.0					4	
--	5	EXISTING LIGHTING	--	20	1			0.0 / 0.0	3	175	-- TLB	6	--
--	7	EXISTING LIGHTING	--	20	1	0.0 / 0.0						8	
--	9	EXISTING LIGHTING	--	20	1		0.0 / 0.0		1	20	-- EXISTING LIGHTING	10	--
--	11	EXISTING LIGHTING	--	20	1			0.0 / 0.4				**12**	
--	13	SPACE	--	--	1	0.0 / 0.9			**3**	**50**	**1-L TLFS**	**14**	
--	15	SPACE	--	--	1		0.0 / 0.0					**16**	
--	17	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	18	--
--	19	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	20	--
--	21	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	22	--
--	23	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	28	--
--	29	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	36	--
--	37	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	38	--
--	39	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	40	--
--	41	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	42	--
		Total Load:				0.9 kVA	0.0 kVA	0.4 kVA					
		Total Amps:				3 A	0 A	2 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.4 kVA	100.00%	0.4 kVA		
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Load:**	1.2 kVA
Miscellaneous	0.5 kVA	100.00%	0.5 kVA	**Total Est. Demand:**	1.2 kVA
Receptacles	0.4 kVA	100.00%	0.4 kVA	**Total Conn. Current:**	1 A
				Total Est. Demand Current:	1 A

Notes:
1 - PROVIDE NEW CIRCUIT BREAKER

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: LFS — New Panel

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TLFS | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Lighting	#12	20	1	0.0 / 0.4			1	20	#12 Receptacles	2	
	3	Exterior Lighting	#12	20	1		0.5 / 0.4		1	20	#12 EF-1	4	
--	5	SPARE	--	20	1			0.0 / 0.0	1	20	-- SPARE	6	--
--	7	SPARE	--	20	1	0.0 / 0.0			1	20	-- SPARE	8	--
--	9	SPARE	--	20	1		0.0 / 0.0		1	20	-- SPARE	10	--
--	11	SPARE	--	20	1			0.0 / 0.0	1	20	-- SPARE	12	--
--	13	SPARE	--	20	1	0.0 / 0.0			1	20	-- SPARE	14	--
--	15	SPARE	--	20	1		0.0 / 0.0		1	20	-- SPARE	16	--
--	17	SPARE	--	20	1			0.0 / 0.0	1	20	-- SPARE	18	--
--	19	SPARE	--	20	1	0.0 / 0.0			1	20	-- SPARE	20	--
--	21	SPARE	--	20	1		0.0 / 0.0		1	20	-- SPARE	22	--
--	23	SPARE	--	20	1			0.0 / 0.0	1	20	-- SPARE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	28	--
--	29	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	-- SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	-- SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	-- SPACE	36	--
--	37	SPACE	--	--	1	0.0 / 0.0						38	
--	39	SPACE	--	--	1		0.0 / 0.0		3	30	-- SPDL	40	--
--	41	SPACE	--	--	1			0.0 / 0.0				42	
		Total Load:				0.4 kVA	0.9 kVA	0.0 kVA					
		Total Amps:				3 A	8 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.4 kVA	100.00%	0.4 kVA		
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Load:**	1.2 kVA
Miscellaneous	0.5 kVA	100.00%	0.5 kVA	**Total Est. Demand:**	1.2 kVA
Receptacles	0.4 kVA	100.00%	0.4 kVA	**Total Conn. Current:**	3 A
				Total Est. Demand Current:	3 A

Notes:
Control via contactor, contactor controlled via 24/7 timeclock.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

LIGHTING FIXTURE SCHEDULE

Type Mark	MANUFACTURER	MODEL	MOUNTING	Driver / Light Engine: LUMENS/TYP E	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	DAYBRITE	2FPZ48L840-4-DS-UNV-DIM	RECESSED	4800L LED	4000 K	80	277 V	47 W	2x4 FLAT PANEL, OPAQUE ACRYLIC LENS, 0-10V DIMMING, DLC LISTED.
C1	DAY-BRITE	FSX440L840-UNV + FSXWG4	SURFACE / CHAIN HANG	LED / 4000LU	4000 K	80	277 V	33 W	4-FOOT STRIP, FROSTED ACRYLIC LENS, WIREGUARD, CHAIN HANG KIT, DLC LISTED.
C1E	DAY-BRITE	FSX440L840-UNV + BSL6LST + FSXWG4	SURFACE / CHAIN HANG	LED / 4000LU	4000 K	80	277 V	33 W	4-FOOT STRIP, FROSTED ACRYLIC LENS, WIREGUARD, CHAIN HANG KIT, DLC LISTED. PROVIDE WITH 90-MIN EMERGENCY BATTERY PACK.
W1	GARDCO	PWS-1150-NW-G2-4-UNV-DD-BRZ	WALL	LED / 5310LU	4000 K	80	277 V	51 W	ARCHITECTURAL WALLPACK, TYPE IV DISTRIBUTION, BRONZE FINISH, DLC LISTED.
W1E	GARDCO	PWS-1150-NW-G2-4-UNV-DD-BRZ-EM	WALL	LED / 5310LU	4000 K	80	277 V	51 W	ARCHITECTURAL WALLPACK, TYPE IV DISTRIBUTION, BRONZE FINISH, DLC LISTED. PROVIDE WITH 90-MIN EMERGENCY BATTERY PACK.
X1	CHLORIDE	44RLU1WR	SURFACE	LED	4000 K	80	277 V	1 W	SINGLE-FACED EDGE-LIT EXIT SIGN, UNIVERSAL MOUNT, AC ONLY, WHITE HOUSING, RED LETTERING, MIRROR BACKGROUND. PROVIDE CHEVRON DIRECTIONAL ARROWS PER PLANS OR AS DIRECTED BY AHJ.

LIGHTING CONTROLS SCHEDULE

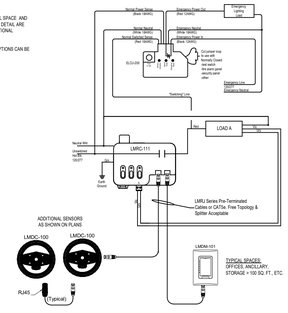
Type	Sensor Operation	# of Lighting Zones	Description
RB	VACANCY - MANUAL ON / AUTO OFF	1	ROOM CONTROLLER; ON/OFF SWITCH (NO DIMMING).
RF	NONE	1	ON/OFF SPRING WOUND MECHANICAL TIMER SWITCH, 20-AMPERE, 12-HOUR WITH HOLD. WIRE MULTIPLE TIME SWITCHES IN PARALLEL FOR MULTIPLE ENTRY/EXIT DOORS.
RH	NONE	1	ON/OFF SPRING WOUND MECHANICAL TIMER SWITCH, 20-AMPERE, 12-HOUR WITH HOLD. WIRE MULTIPLE TIMER SWITCHES IN PARALLEL FOR MULTIP ENTRY/EXIT DOORS.
ER	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN MANUAL ON OPERATION OCCUPANCY SENSORS WILL TURN ALL LOADS OFF BASED ON OCCUPANCY.
2. LIGHTING SHALL TURN ON AT INITIAL SETPOINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES.
3. VACANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

1. FINAL QUANTITIES OF SENSORS AND SWITCHES SHALL BE DETERMINED BY THE ACTUAL SPACE AND ENERGY CODE REQUIREMENTS. SENSOR AND SWITCH QUANTITIES INDICATED ON THIS DETAIL ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. PROVIDE (1) WATTSTOPPER ELCU-200 PER EMERGENCY POWERED SWITCH LEG.
3. THE USE OF DAYLIGHT SENSORS SHALL BE AVOIDED OR MINIMIZED WHEN CODE EXCEPTIONS CAN BE MET.



WALL DEVICES TO BE GRAY WITH NON-MAGNETIC STAINLESS STEEL FACEPLATES

Wattstopper Digital Lighting Management — TYPICAL SINGLE ZONE DIMMING

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN MANUAL ON OPERATION OCCUPANCY SENSORS WILL TURN ALL LOADS OFF BASED ON OCCUPANCY.
2. LIGHTING SHALL TURN ON AT INITIAL SETPOINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES.
3. VACANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

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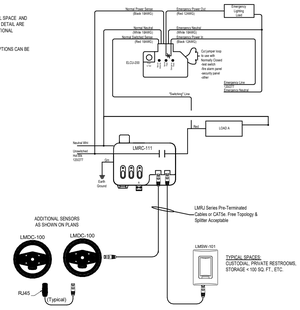
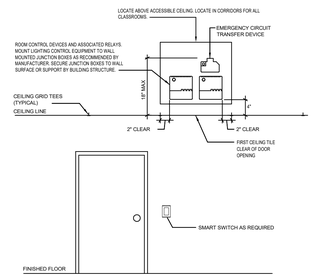


WALL DEVICES TO BE GRAY WITH NON-MAGNETIC STAINLESS STEEL FACEPLATES

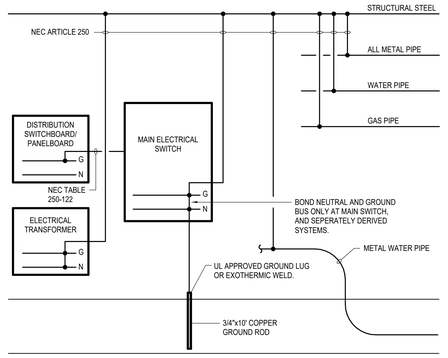
Wattstopper Digital Lighting Management — TYPICAL SINGLE ZONE

NOTES:

1. LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 10 FEET ARY OR BELOW, ADJACENT TO SWITCH CONTROLLING THE SPACE.
2. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING.
3. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE, INDICATE AS: DLM AND ASSOCIATED SPACE AND ROOM NUMBER.
4. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD.
5. WHERE MULTIPLE LOCATIONS, PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE ON EQUIPMENT. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE, INDICATE AS: DLM AND ASSOCIATED SPACE AND ROOM NUMBER.



TYPICAL MOUNTING DETAILS



1 GROUNDING DETAIL
SCALE: NONE

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - CEILING MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - WALL MOUNTED ON EMERGENCY CIRCUIT
LIGHTING CONTROLS & DEVICES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE MOMENTARY DPST KEYED SWITCH
$D	LINE VOLTAGE DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$T	6-HOUR ROTARY TIMER SWITCH WITH NO HOLD U.N.O.
	PUSH BUTTON EPO SWITCH WITH COVER
$MC	LOW VOLTAGE MOMENTARY CONTACT SWITCH
$R	LOW VOLTAGE DIGITAL KEYPAD
$B	LOW VOLTAGE BUILDING MANAGEMENT (BMCS) LOCAL OVERRIDE SWITCH
	OCCUPANCY SENSOR (AUTO ON / AUTO OFF WITHIN 20-MINUTES)
	VACANCY SENSOR (MANUAL ON / AUTO OFF WITHIN 20-MINUTES)
	PHOTOCELL SENSOR
RF	ROOM CONTROLLER ('R' DENOTES TYPE - SEE LIGHTING CONTROLS SCHEDULE AND DETAILS)
ER	EMERGENCY LOAD CONTROL RELAY. MINIMUM 16A AND 0-10V COMPATIBLE. PROVIDE U.L. 924 U.N.O.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
U	DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS.
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
U	DOUBLE DUPLEX WITH TWO USB CHARGING PORTS 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
DA	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
DA	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	JUNCTION BOX
	FLUSH REMOTE GFCI DEVICE (LOCATE IN READILY ACCESSIBLE LOCATION)
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
$	MOTOR-RATED SWITCH. 20A UNLESS INDICATED OTHERWISE.
J	DISCONNECT SWITCH AS REQUIRED
M	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
VFD	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
HF	HIGH EFFICIENCY HARMONIC FILTER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
T	LOW VOLTAGE TRANSFORMER, SIZE AND TYPE AS REQUIRED.
	CHIME/BUZZER
ELECTRICAL EQUIPMENT	
	ELECTRICAL PANELBOARD; REFER TO FLOOR PLANS FOR VOLTAGE.
	DRY TYPE TRANSFORMER
	PLYWOOD TELEPHONE BACKBOARD
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	3/4"C. UNLESS OTHERWISE NOTED; LONG HATCH, NEUTRAL; SHORT HATCH, PHASE; LONG HATCH & HOOK, INSULATED GROUND. NO HATCHES INDICATES 2 CONDUCTORS. ARROW INDICATES HOMERUN.
	PARTIAL ELECTRICAL HOME RUN
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES 'WEATHERPROOF'
H	INDICATES 'HORIZONTAL'
NL	INDICATES 'NIGHT LIGHT'.
TP	INDICATES 'TAMPER PROOF'
(KS)	INDICATES 'KNEE SPACE'. LOCATE WIRING DEVICE IN KNEESPACE
U.N.O.	INDICATES 'UNLESS NOTED OTHERWISE'
(E)	INDICATES EXISTING TO REMAIN
(R)	INDICATES REPLACE DEVICE AND COVERPLATE.
•	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-4X MINIMUM.
-ALL EXTERIOR RECEPTACLES SHALL BE WATER RESISTANT TYPE.

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.
2. ALL LIGHT FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING EQUIPMENT TO AVOID CONFLICTS. LOCATE LIGHT FIXTURES ON PERIMETER WALLS OF MECHANICAL AREAS WHERE PRACTICAL.
3. ALL EMPTY CONDUIT SHALL HAVE PULL STRING.
4. EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM.
5. VERIFY MOUNTING HEIGHTS OF RECEPTACLES WITH CASEWORK ELEVATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS FOR LOCATION AND COORDINATION OF ELECTRICAL OUTLETS AT KNEESPACE LOCATIONS, LOCATE ELECTRICAL OUTLETS WITHIN KNEESPACE, UNLESS NOTED OTHERWISE. AT COUNTERS WITH OUT KNEESPACE, LOCATE OUTLETS HORIZONTALLY 6" ABOVE BACK SPLASH, UNLESS NOTED OTHERWISE.
6. ALL FIRE ALARM DEVICES, RECEPTACLES, SWITCHES, AND WIRING DEVICES IN MECHANICAL AND ELECTRICAL ROOMS ARE TO BE RECESSED IN WALLS.
7. ALL LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE. USING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
10. CENTER ALL EXIT SIGNS OVER DOORS.

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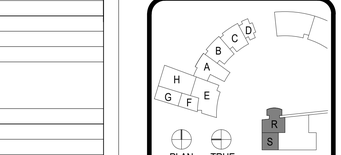
CYPRESS-FAIRBANKS ISD
2024 ROWE & WATKINS MS AND CY PARK HS RENOVATIONS- VOLUME 3
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



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1	Addendum #1	2025.03.14

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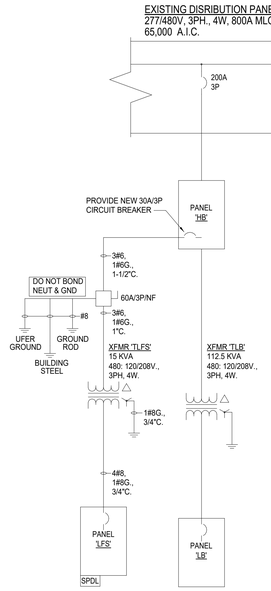
ELECTRICAL DETAILS AND SCHEDULES

E-301

-ALL CONDUCTORS AND GROUNDS ARE COPPER UNLESS NOTED OTHERWISE-



1 PARTIAL ONE-LINE DIAGRAM
SCALE: NONE

LINETYPE LEGEND

DISCONNECT AND REMOVE	- - - - - - - - - - - -
EXISTING TO REMAIN	———————
NEW WORK	———————

PANELBOARD CIRCUIT DIRECTORY:

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW CIRCUIT DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED AND LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE". SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2017. 408.4(A)

ALL EQUIPMENT/MATERIALS TO BE INSTALLED SHALL BE LISTED AND LABELED FOR THE INTENDED USE, AND INCLUDED IN A LIST PUBLISHED BY AN APPROVED AGENCY. ONLY LISTED AND LABELED EQUIPMENT/MATERIALS SHALL BE USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC ARTICLE 110.3(B). CITY OF HOUSTON ELECTRICAL CODE SECTION 508, AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

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CYPRESS-FAIRBANKS ISD

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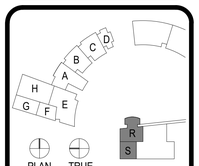

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1	Addendum #1	2025.03.14

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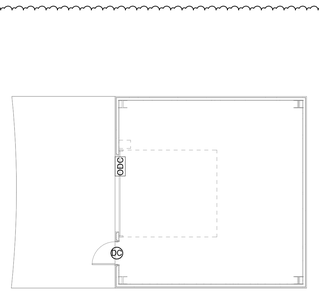
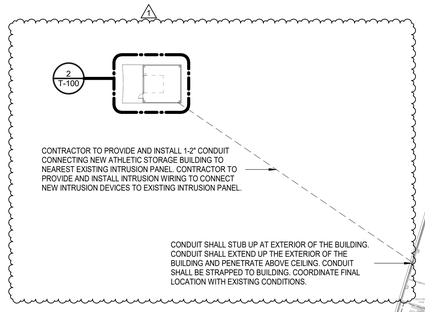
ELECTRICAL ONE-LINE DIAGRAM

1

E-401



2 **TECHNOLOGY PLAN - ATHLETIC STORAGE BUILDING**
Scale: 1/8" = 1'-0"



1 **TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1**
Scale: 1" = 40'-0"

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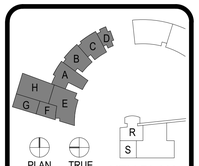

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TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1

T-100