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ADDENDUM NO. 3

PROJECT: 2024 Smith and Spillane MS Renovations

BID DATE: **Thursday, February 20, 2025 (no Change)**

FROM: Carolina Weitzman, A.I.A.
Natex Corporation Architects
447 Heights Blvd, Houston, TX 77007

TO: **Prospective Bidders**

This Addendum forms a part of the Bidding Documents and will be incorporated into Contract Documents. Insofar as the Project Manual or Drawings or both are inconsistent, this Addendum governs. Acknowledge receipt of the Addendum by inserting its number into the Proposal Form. **FAILURE TO DO SO WILL SUBJECT BID TO DISQUALIFICATION**.

PART 1 CHANGES TO PROJECT MANUAL

1. SECTION 08 71 00 DOOR HARDWARE
   a. Add section to project manual

2. 28 31 00 INTRUSION DETECTION SYSTEM (IDS)
   a. Replace this section in its entirety with the attached. Section was omitted in Addendum 02.

PART 2 CHANGES TO DRAWINGS

SMITH MS

1. M0.03 MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA ‘C’
   a. Refer to revised plan for additional demolition in kiln room.

2. M0.04 MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA ‘D’
   a. Refer to revised plan for additional ductwork demolition.

3. M1.00 – MECHANICLA SITE PLAN
   a. FIELD STORAGE – Relocated EF-SB-1.

4. M2.03 MECHANICAL FIRST FLOOR PLAN – AREA ‘C’
   a. Refer to revised plan for kiln room exhaust.

5. M2.04 MECHANICAL FIRST FLOOR PLAN – AREA ‘D’
   a. Refer to revised plan for revised ductwork.

6. M3.01 MECHANICAL ENLARGED FLOOR PLAN
   a. Refer to revised plan for piping to AHU-5D.

7. M4.01 MECHANICAL DETAILS
   a. Refer to revised plan for kiln exhaust detail.

8. M5.01 MECHANICAL SCHEDULES
   a. Refer to revised plan for schedule for EF-1.

9. E1.03 – ELECTRICAL SITE PLAN
   a. FIELD STORAGE –EF-SB-1 Power relocated.

10. E2.01 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'A'
    a. Lighting layout revisions as noted.

11. E2.02 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'B'
    a. Lighting layout revisions as noted.

12. E2.03 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'C'
    a. Lighting layout revisions as noted.

13. E2.04 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'D'
    a. Lighting layout revisions as noted.

14. E2.06 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'F'
    a. Lighting layout revisions as noted.

15. E3.03 - ELECTRICAL POWER FIRST FLOOR PLAN - AREA ‘C’
    a. Power provided for new Kiln EF-1.

16. P1.03 – PLUMBING SITE PLAN
    a. Refer to attached new sheet for new site sanitary connection.

17. T0.00 – TECHNOLOGY NOTES AND LEGENDS
    a. Refer to revised plan for fire alarm remote power supply symbol.

18. T1.02 – TECHNOLOGY COMPOSITE 1ST FLOOR PLAN
    a. Refer to revised plan for fire alarm remote power supply locations.

19. T1.03 – TECHNOLOGY COMPOSITE 2ND FLOOR PLAN
    a. Refer to revised plan for fire alarm remote power supply locations.

20. T2.11 – TECHNOLOGY SECOND FLOOR PLAN – AREA ‘B’
    a. Refer to revised plan for additional drop location and ceiling drop clarification.

SPILLANE MS

1. M0.03 MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA ‘C’
   a. Refer to revised plan for additional demolition in kiln room.

2. M0.04 MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA ‘D’
   a. Refer to revised plan for additional ductwork demolition.

3. M1.00 – MECHANICLA SITE PLAN
   a. FIELD STORAGE – Relocated EF-SB-1.

4. M1.03 MECHANICAL FIRST FLOOR PLAN – AREA ‘C’
   a. Refer to revised plan for kiln room exhaust.

5. M1.04 MECHANICAL FIRST FLOOR PLAN – AREA ‘D’
   a. Refer to revised plan for revised ductwork.

6. M3.01 MECHANICAL DETAILS
   a. Refer to revised plan for kiln exhaust detail.

7. M4.01 MECHANICAL SCHEDULES
   a. Refer to revised plan for schedule for EF-1.

8. M5.01 MECHANICAL CONTROLS FIRST FLOOR PLAN – AREA A,B,C,D
   a. Refer to revised plan for additional controls scope.

9. M5.02 MECHANICAL CONTROLS FIRST FLOOR PLAN – AREA E,F,G,H,J
   a. Refer to revised plan for additional controls scope.

10. M5.03 MECHANICAL CONTROLS SECOND FLOOR PLAN
    a. Refer to revised plan for additional controls scope.

11. M5.04 MECHANICAL CONTROLS PLAN – CENTRAL PLANT
    a. Refer to revised plan for additional controls scope.

12. M5.05 MECHANICAL CONTROLS SCHEDULES
    a. Refer to new sheet for existing equipment schedules.

13. E1.01 – ELECTRICAL SITE PLAN
    a. FIELD STORAGE –EF-SB-1 Power relocated.

14. E2.01 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'A'
    a. Lighting layout revisions as noted.

15. E2.02 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'B'
    a. Lighting layout revisions as noted.

16. E2.03 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'C'
    a. Lighting layout revisions as noted.

17. E2.04 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'D'
    a. Lighting layout revisions as noted.

18. E2.06 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'F'
    a. Lighting layout revisions as noted.

19. E2.08 - ELECTRICAL LIGHTING FIRST FLOOR PLAN -AREA 'H'
    a. Lighting layout revisions as noted.

20. E2.10 - ELECTRICAL LIGHTING SECOND FLOOR PLAN -AREA 'A'
    a. Lighting layout revisions as noted.

21. E2.11 - ELECTRICAL LIGHTING SECOND FLOOR PLAN -AREA 'B'
    a. Lighting layout revisions as noted.

22. E3.03 - ELECTRICAL POWER FIRST FLOOR PLAN -AREA 'C'
    a. Power provided for new Kiln EF-1.

23. E3.06 - ELECTRICAL POWER FIRST FLOOR PLAN -AREA 'F'
    a. Power provided for electronic trap primer in BOILER C109.

24. E5.02 - ELECTRICAL PANEL SCHEDULES
    a. Changes made to panel LJ1.

25. T0.00 – TECHNOLOGY NOTES AND LEGENDS
    a. Refer to revised plan for fire alarm remote power supply symbol.

26. T0.04 – TECHNOLOGY DEMOLITION FIRST FLOOR PLAN – AREA ‘D’
    a. Refer to revised plan for additional drops to be removed in cafeteria.

27. T0.05 – TECHNOLOGY DEMOLITION FIRST FLOOR PLAN – AREA ‘E’
    a. Refer to revised plan for additional drops to be removed.

28. T0.11 – TECHNOLOGY DEMOLITION SECOND FLOOR PLAN – AREA ‘B’
    a. Refer to revised plan for additional drops to be removed.

29. T1.00 – TECHNOLOGY COMPOSITE FLOOR PLANS
    a. Refer to revised plan for fire alarm remote power supply locations.

30. T2.03 – TECHNOLOGY FIRST FLOOR PLAN – AREA ‘C’
    a. Refer to revised plan for additional drop location and ceiling drop clarification.

31. T2.04 – TECHNOLOGY FIRST FLOOR PLAN – AREA ‘D’
    a. Refer to revised plan for additional drop locations and ceiling drop clarification.

32. T2.05 – TECHNOLOGY FIRST FLOOR PLAN – AREA ‘E’
    a. Refer to revised plan for additional drop location and ceiling drop clarification.

PART 3 CLARIFICATIONS

PART 4 PRIOR APPROVALS

1. Section 133419 Pre-Engineered Building – Red Dot Building is an approved manufacturer. Compliance to all other aspects of specification is applies.

END OF ADDENDUM NO. 3

APPROVED FOR ISSUE: _____
By M. Carolina Weitzman, principal, NATEX Architects

END OF DOCUMENT

Total No. of Pages to Addendum No.2: _125_ pages.

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

****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.**

Hardware Sets based on plans dated 08/09/2024
12/11/2024 – Revisions per 75% Owner's meeting
2/12/2025 – Revisions per 95% Owner's meeting

SMITH MIDDLE SCHOOL HARDWARE SETS

Set: 1.0
Doors: C100A-2
Description: 2N Station - 8510 LT LD

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT
1	2N Station	2N		OT

Set: 2.0
Doors: B111-3
Description: 2N Station - 8804 LD - Sweep

1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 Less Pull	US32D	SA
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	345ANB x Dr. Width		PE
1	All hardware	Existing to remain		OT
1	2N Station	2N		OT

Notes: Gasketing by door manufacturer at aluminum doors. Existing electric strike to remain.

Set: 2.1
Doors: B108-4
Description: 8804 LD - Sweep

1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 Less Pull	US32D	SA
1	Gasketing	2891APK (head & jambs)		PE
1	Sweep	345ANB x Dr. Width		PE
1	All hardware	Existing to remain		OT

Notes: Gasketing by door manufacturer at aluminum doors. Existing electric strike to remain.

Set: 3.0
Doors: A004-6
Description: Reader to remain

1	Reader	Existing to remain	26D	SA
1	Balance of hardware	Existing to remain		OT

Notes: Gasketing by the door manufacturer at aluminum doors.

Set: 3.1
Doors: E100G-1, E100H-1
Description: Add 8510 LD

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 3.2
Doors: C100A-1
Description: Add 8504 / 8510 LD

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit SPAR04867/NC-E11	LD 19 TB 43 70 8504 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: 4.0
Doors: B113-1
Description: Add Reader - Gasket - Threshold

1	Gasketing	2891APK (head & jambs)		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	Reader	Existing to remain	26D	SA
1	Balance of hardware	Existing to remain		OT

Set: 5.0
Doors: B107H-2, D106-2
Description: Add SN200 Exit, Loop, Sweep, Gasket, 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	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
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

Set: 6.0
Doors: A109-1, B104-1, B104-2, B110-1, B111-1, D100A-1, D100B-1, D100C-1, D100D-1, D103-2, D104-2, E117-1, E118-1, E129-1, E130-1, E155-1, E156-1, E251-1, E252-1

Description: Add Exit Device-8816- HO Closers

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 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	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

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

Set: 6.1
Doors: D100L-1, D100L-2, D100L-3, D103-1, D104-1
Description: Add Exit Device-8804- HO Closers

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

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

Set: 7.0
Doors: D106-1
Description: Add Exit Device-8816- ADB

1	Rim Exit Sec CR x SPAR#NC-E11	19 LD TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Door Bottom	411APKL		PE
1	Balance of hardware	Existing to remain		OT

Set: 8.0
Doors: B100-1, B108-1
Description: Add Rated Exit Device-8816/8804- Closers - Thru bolts

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

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

Set: 9.0
Description: Not Used

1	Set	Not Used		OT

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

Set: 10.0
Doors: E100B-1
Description: Add Pr SN200 Narrow Exit x Less Trim x 8510 - Loop

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	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.

Set: 11.0
Doors: E100B-2, E100G-2
Description: No Work

1	All hardware	Existing to remain		OT

Set: 12.0
Doors: C101-2
Description: Add Pr SN200 Narrow Exit x Less Trim - Loop - Closers - Dog

1	Rim Exit SPAR NC-E11 Dog	19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 P10	EN	SA
2	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	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.

Set: 12.1
Doors: D105A-2
Description: Add Pr SN200 Narrow Exit x Less Trim - Loop - Closers - LD

	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 P10	EN	SA
2	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	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.

Set: 13.0
Doors: E100J-1
Description: Add Sgl SN200 Narrow Exit x Less Trim - Loop

1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
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	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.

Set: 13.1

Doors: E100K-1
Description: Add Sgl 56-8504 Narrow Exit x Less Trim - EPT

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

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

Set: 14.0
Doors: A101-1, E124A-1, E130A-1, E149A-1, E150A-1, E226A-1, E245A-1, E246A-1, E256-1, F101-1
Description: Existing - Add 8204

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

Set: 15.0
Description: Not Used

1	Set	Not Used		OT	

Set: 16.0
Description: Not Used

1	Set	Not Used		OT	

Set: 17.0
Doors: E206-2
Description: Existing - Add 8204 - HO Closer - Classroom

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

Set: 18.0

Doors: E112-1, E124-1, E140-1, E149-1, E150-1, E207-2, E226-2, E236-2, E245-2, E246-2
Description: Existing - Add 8204 - Rated Classroom

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

Set: 19.0
Doors: E112-2, E124-2, E140-2, E149-2, E150-2, E207-1, E226-1, E236-1, E245-1, E246-1
Description: Existing - Add 8238 - Rated Classroom

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	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 20.0
Doors: A106-1, A107-1, B109-1, D101-1, D102-1, E101-1, E102-1, E105-1, E113-1, E115-1, E125-1, E127-1, E131-1, E133-1, E134-1, E136-1, E138-1, E139-1, E143-1, E145-1, E147-1, E148-1, E151-1, E153-1, E202-1, E203-1, E204-1, E205-1, E206-1, E208-1, E210-1, E212-1, E213-1, E220-1, E222-1, E224-2, E225-1, E227-1, E229-1, E230-1, E232-1, E234-1, E235-1, E239-1, E241-1, E243-1, E244-1, E247-1, E249-1
Description: Existing - Add 8238 - HO Closer

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

Set: 20.1
Doors: A102-1, B103-1
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	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 21.0
Doors: A100M-2, A102A-1
Description: Existing - Add 8237

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

Notes: Add 31- to lockset at doors over 1 3/4" thick.

Set: 22.0
Doors: A100A-1, A100B-1, A100C-1, A100C-2, A100E-1, A100G-1, A100H-1, A100H-2, A103-1, A104-1, A104A-1, A104B-1, A104C-1, A104D-1, A104E-1, A105-1, A105A-1, A105B-1, A105C-1, A105D-1, C105G-1, E106-1, E107-1, E108-1, E110-1, E111-1
Description: Existing - Add 8205

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

Set: 23.0
Doors: A102B-1
Description: Existing - Add 8215

1	Passage Latch	8215 LL	US26D	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 24.0
Doors: E122-1, E123-1, E217-1, E219-1
Description: Existing - Add 8250 - HO 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	TB 351 H	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 25.0
Doors: A100K-1, A102C-1, E131B-1
Description: Existing - Add 8265

1	Privacy Lock	V20 8265 VN1L	US26D	SA

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

Set: 26.0
Doors: A106-2, A107-2
Description: Existing Sgl Ext ASF- Add Closer - Stop

1	Surface Closer	TB 351 P10	EN	SA	
1	Door Stop	462	US2C	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 27.0
Doors: C101-3
Description: **Pr Ext - ASF - Exit Device- SN200/DT - Mullion - Closer w/Stop Arm -Access Control

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit xSPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8504 862	US32D	SA	
1	Rim Exit x SPAR#NC-E11	19 TB 43 8510 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	

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

Set: 28.0
Doors: C105-1
Description: **Sgl - ExT -HM - EX FR Exit- 2N Lever- Closer /HO- Access Control - Viewer

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE	
1	Rim Exit 2N SPAR04867/NC-E11	LD 19 TB 43 56 70 8804 ETL	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	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
2	Viewer	622 x door thickness	DCRM	RO
1	Keedex Lock Protector	K12S - SGT		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 door manufacturer.

Set: 29.0
Doors: C109-2
Description: **Sgl - ExT -HM - Exit- SN200 FSW - Closer /Stop- Access Control

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

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

Set: 30.0
Doors: B100-4, B101H-2

Description: **Sgl - ExT -HM - Exit- SN200 - Closer /Stop- Access Control - Peep

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

Set: 31.0
Doors: B101B-2, C106-2
Description: **Pr Ext - Storeroom/Mechanical - Closer/Stop

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

Notes: Closer on active leaf.

Set: 32.0
Doors: D100L-5
Description: **Sgl - Ext- Mech/Storage/Fire Riser - Closer w/Stop Arm

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE

1	Const. Core	7190224	Green	BE	
1	Surface Closer	TB 351 PS	EN	SA	
1	Gasketing	2891APK (head & jambs)		PE	
1	Rain Guard	346C x Frame Width		PE	
1	Sweep	345ANB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Door Position Switch	By Security.		OT	

Set: 33.0
Doors: A002-1
Description: **Pr Int- ASF - Vest SN200 Exit Device- NL/DT - Mullion - Closer /Stop - Access Control

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804 ETL	US32D	SA	
1	Rim Exit - DT x SPAR#NC-E11	19 LD TB 43 8810 ETL	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	

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

Set: 34.0
Doors: A002-2
Description: **Pr Int- ASF - Vest Exit Device- NL/DT - Mullion - Closer /Stop

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit 2N SPAR04867/NC-E11	LD 19 TB 43 56 70 8804 ETL	US32D	SA	
1	Rim Exit - DT x SPAR#NC-E11	19 LD TB 43 8810 ETL	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	

2	Kit	581-1/ 581-2 as required	EN	SA
2	Surface Closer	TB 351 P10	EN	SA
2	Door Stop	481H	US26D	RO
1	Perimeter Seal	By door mfgr		OT

Set: 35.0
Doors: C109E-1
Description: **Sgl - Exit Device-Security CL - Closer - STC

3	Hinges	By the STC door manufacturer		OT
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 35.1
Doors: C109-1
Description: **Sgl - Push/Pull - Closer - STC

3	Hinges	By the STC door manufacturer		OT
1	Push Plate	70E	US32D	RO
1	Pull Plate	111x70C	US32D	RO
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

Notes: Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.

Set: 36.0
Doors: B101G-1, B107G-1
Description: Sgl - Exit Device-Security CL - Closer / HO

3	Hinge (heavy weight)	T4A3786	US26D	MK
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 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	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Gasketing	2891APK (head & jambs)		PE

Set: 37.0
Doors: F100-1
Description: Sgl - ASF Exit Device-Security CL - Closer / HO

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD TB 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Kit	581-1/ 581-2 as required	EN	SA
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO
1	Perimeter Seal	By door mfgr		OT

Set: 38.0
Doors: A100-1, A100-2, A100M-1
Description: **Sgl- Int ASF- SN200 Lock- Closer - Access Control

1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	SN200 Mort Lock	70 SN200-82271 OL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Gasketing	By the frame manufacturer		OT

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

Set: 39.0
Doors: C109B-1
Description: **Sgl - Storeroom - Wide

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

Set: 40.0
Doors: B101A-3, B107A-3, C109D-1
Description: **Sgl - Classroom

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

Set: 41.0
Doors: A106C-1
Description: **Sgl - Storeroom - closer/stop - Wide

3	Hinge (heavy weight)	T4A3786	US26D	MK
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 PS	EN	SA
3	Silencer	608		RO

Set: 42.0
Doors: C109A-1, D104C-1
Description: **Sgl - 8204 - Practice STC

3	Hinges	By the STC door manufacturer		OT
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	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 42.1
Doors: C109C-1
Description: **Sgl - 8237 - Practice STC

3	Hinges	By the STC door manufacturer		OT
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	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

Notes: Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.

Add 31- to lockset if door is over 1 3/4" thick.

Set: 43.0
Doors: B101G-2, B107G-2
Description: Sgl - Push Pull - Closer - HO

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

Set: 43.1
Doors: B100B-1, B100B-2, B100C-1, B100C-2
Description: **Sgl - Multi Occ RR - Classroom Cyl - Closer

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

Notes: Confirm door height / hinge quantity required at G1001-1, G1001-2

Set: 44.0
Doors: A1003-1, B100-2, B100A-2, B100A-3, B111-2, C104-2, C104-3, C104A-1, C104A-2, C104A-3, D204-1, E100G-3, E161-2, S103-2, S103-3
Description: **OH Coiling Doors - No Work

1	All hardware	Existing to remain		OT

Set: 45.0
Doors: D100L-6
Description: **OH Coiling Doors - Motorized

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

Notes: Provide keyswitch on both sides of door.

Set: 46.0

Doors: A004-3, A004-4, A004-7, A100D-1, A100F-1, A100J-1, A100L-1, A105E-1, A106A-1, A106A-2, A106B-1, A106B-2, A108-1, A109-2, A109A-1, A109B-1, A109C-1, A110-1, A112-1, B100-3, B100A-1, B101A-1, B101A-2, B101AA-1, B101AB-1, B101B-1, B101C-1, B101H-1, B102-1, B102-2, B104A-1, B105-1, B105-2, B106-1, B107A-1, B107A-2, B107AB-1, B107B-1, B107B-2, B107C-1, B107H-1, B109A-1, B109B-1, B110-2, B110-3, B110A-1, B110A-2, B110B-1, B110C-1, B110D-1, B111-4, B113-2, B114-1, B114-2, B115-1, B117-1, B118-1, B118-A, C100-1, C102-1, C103-1, C104-1, C105A-1, C105B-1, C105C-1, C105D-1, C105E-1, C105F-1, C106-1, C107-1, C107-2, C112-1, C112A-1, C112B-1, C113-1, D100E-1, D101A-1, D101A-2, D101B-1, D102A-1, D103B-1, D103C-1, D104A-1, D104B-1, D105-1, D105A-1, D106A-1, D106B-1, D106C-1, D106D-1, D106E-1, D106F-1, D106G-1, E100-1, E101A-1, E109-1, E111A-1, E111B-1, E111C-1, E112-3, E114-1, E114-2, E114A-1, E116-1, E120-1, E124-3, E126-1, E126-2, E128-1, E128A-1, E131A-1, E131A-2, E131B-2, E132-1, E133A-1, E135-1, E135-2, E135A-1, E137-1, E140-3, E141-1, E142-1, E144-1, E144-2, E144A-1, E146-1, E149-3, E150-3, E152-1, E152-2, E152A-1, E154-1, E158-1, E160-1, E161-1, E200-1, E200A-1, E200B-1, E207-3, E209-1, E209-2, E209A-1, E211-1, E215-1, E221-1, E221-2, E221A-1, E223-1, E225A-1, E226-3, E228-1, E229-2, E229A-1, E231-1, E231-2, E231A-1, E233-1, E236-3, E237-1, E238-1, E240-1, E240-2, E240A-1, E242-1, E245-3, E246A-2, E248-1, E248-2, E248A-1, E250-1, E254-1, F100-3, F100A-1, F100A-2, F100A-3, F100B-1, F101A-1, F102-1, F102A-1, S101-1, S102-1, S102-2, S103-1, S201-1
Description: No Work

1	All hardware	Existing to remain	OT

Set: 47.0
Doors: Attic
Description: **Attic Stock - EVERY CAMPUS

5	Classroom Security Intruder Lock Body SA		8238	US26D
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	Electromagnetic Holder	994M 24VAC	689	RF
5	994M Magnetic Parts	Door Armature 994510M	689	RF
5	994M Magnetic Parts	Screw & Backplate 998300	689	RF
5	994M Magnetic Parts	Swivel Armature 900-3	689	RF
5	994M Magnetic Parts	Magnet Assembly 998369-3V	689	RF
5	994M Magnetic Parts	Wall Cover 998315M	689	RF
5	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 from the distributor.
DO NOT ship to jobsite.

SPILLANE MIDDLE SCHOOL HARDWARE SETS

Set: 1.0
Doors: C101-2
Description: Add 56-8804 Loop

1	Rim Exit SPAR04867/NC-E11	LD 19 TB 43 56 8804 Less Pull	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	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

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

Set: 1.1
Doors: B100-2, B108-2
Description: Add 8804 Less Trim

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8804 Less Pull	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Gasketing by the door manufacturer at aluminum doors. Existing electric strike / reader to remain.

Set: 1.2
Doors: E100B-1
Description: Add 56-8504 Loop

1	Rim Exit xSPAR04867/NC-E11	LD 19 TB 43 56 8504 Less Pull	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	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Notes: Gasketing by the door manufacturer at aluminum doors. Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain

secure. Free egress at all times.

Set: 1.3
Doors: E100G-1
Description: Add 56-8504 Loop x 8510

1	Rim Exit xSPAR04867/NC-E11	LD 19 TB 43 56 8504 Less Pull	US32D	SA
1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 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	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

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

Set: 2.0
Doors: E100H-1
Description: Add 8510 LD

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Balance of hardware	Existing to remain		OT

Set: 3.0
Doors: B107H-1
Description: Add SN200 8804 LT x Loop 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	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	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT

Set: 4.0
Doors: B101G-1, B104-1, B104-2, B107G-1, B110-1, B111-1, D100A-1, D100B-1, D100C-1, D100D-1, D106-1, E117-1, E118-1, E129-1, E130-1, E155-1, E156-1, E234-1, E235-1, E251-1, E252-1
Description: Add Exit Device-8816- HO Closers

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

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

Set: 4.1
Doors: D100L-1, D100L-2
Description: Add Exit Device-8804- HO Closers

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

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

Set: 5.0
Doors: A004-1, A004-2
Description: Add Exit Device-8816/8804

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

Set: 6.0
Doors: D105A-2
Description: Add Pr SN200 Narrow Exit x 8510 x Less Trim - Loop

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	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.

Set: 7.0
Doors: C101-3
Description: Add SN200 Narrow Exit 8504 x 8510, Loop

1	Rim Exit SPAR NC-E11	LD 19 TB 43 8510 EO	US32D	SA
1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	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.

Set: 7.1
Doors: A109D-2
Description: Add SN200 Narrow Exit 8504 Loop

1	Rim Exit xSPAR04867/NC-E11 SA	19 LD TB 43 70 56-SN200-8504 Less Trim		US32D
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Door Stop	462	US2C	RO
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	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.

Set: 8.0
Doors: D106-2
Description: Add SN200 Exit, Loop - 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	Gasketing	2891APK (head & jambs)		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Power Supply	Provided by security		SU
1	Balance of hardware	Existing to remain		OT
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. Reuse existing Trim. Remove cylinder dogging on exiting rail with 68-1375 mounting rail insert

Set: 9.0
Doors: D107-2
Description: Add SN200 Lock, Loop

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 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	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: 10.0
Doors: C100-1, E124A-3, E149A-1, E150A-1, E207A-1, E223-1, E226A-1, E246A-1, E256-1, F101-2
Description: Existing - Add 8204

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

Set: 10.1
Doors: C108-2, C109-2
Description: Existing - Add 8204 - Surface bolt

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

Set: 11.0
Description: Not Used

1	Set	Not Used		OT	

Set: 12.0
Doors: E205-2
Description: Existing - Add 8204 - HO Closer - Classroom

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

Set: 13.0
Doors: E112-1, E124-1, E140-1, E149-1, E150-1, E207-2, E226-2, E236-2, E245-2, E246-2
Description: Existing - Add 8204 - Rated Classroom

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

Set: 14.0
Doors: B109-1, E112-2, E124-2, E140-2, E149-2, E150-2, E207-1, E226-1, E236-1, E245-1, E246-1
Description: Existing - Add 8238 - Rated Classroom

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	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
1	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 15.0
Doors: A106-1, A107-1, A109-1, D101-1, D102-1, D107A-1, E101-1, E102-1, E105-1, E113-1, E115-1, E125-1, E127-1, E131-1, E133-1, E134-1, E136-1, E138-1, E139-1, E143-1, E145-1, E147-1, E148-1,

E151-1, E153-1, E202-1, E203-1, E204-1, E205-1, E206-1, E208-1, E210-1, E212-1, E213-1, E220-1, E222-1, E224-1, E225-1, E227-1, E229-1, E230-1, E232-1, E239-1, E241-1, E243-1, E244-1, E247-1, E249-1
Description: Existing - Add 8238 - HO Closer

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

Set: 15.1
Doors: A102-1, B103-1
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	Door Stop	481H	US26D	RO	
1	Balance of hardware	Existing to remain		OT	

Set: 16.0
Description: Not Used

1	Set	Not Used		OT	

Set: 17.0
Doors: A100A-1, A100B-1, A100B-2, A100C-1, A100C-2, A100E-1, A100F-1, A100G-1, A100H-1, A100H-2, A100M-1, A101-1, A103-1, A104-1, A104-2, A104A-1, A104B-1, A104C-1, A104D-1, A105-1, A105A-1, A105B-1, A105C-1, A105D-1, C105E-1, E106-1, E107-1, E108-1, E110-1, E111-1
Description: Existing - Add 8205

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

Set: 18.0
Doors: E122-1, E123-1, E218-1, E219-1
Description: Existing - Add 8250 - HO 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	TB 351 H	EN	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 19.0
Doors: A100K-1, E131A-1
Description: Existing - Add 8265

1	Privacy Lock	V20 8265 VN1L	US26D	SA
1	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 20.0
Doors: F100-2
Description: Existing Pr- Add HO Closer

2	Surface Closer	TB 351 PSH	EN	SA
2	Door Stop	481H	US26D	RO
1	Balance of hardware	Existing to remain		OT

Set: 21.0
Doors: A106-2, A107-2
Description: **Sgl Ext - ASF - Exit -SN200 ETL- Closer - Access Control

1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit xSPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8504 ETL	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Kit	581-1/ 581-2 as required	EN	SA
1	Surface Closer	TB 351 P10	EN	SA
1	Door Stop	462	US2C	RO
1	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	Perimeter Seal	By door mfgr		OT
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU

Notes: 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: 22.0
Doors: B115B-1
Description: **Pr Ext - ASF - Exit Device- SN200/DT - Mullion - Closer -Access Control

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit x SPAR#NC-E11	LD TB 19 43 8510 862	US32D	SA	
1	Rim Exit xSPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8504 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Mullion Cylinder	70 34 x 1KB-3	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	

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

Set: 22.1
Doors: A006-1
Description: **Pr Ext - ASF - Exit Device- SN200/DT -KR Mullion - Closer -Access Control - Dog

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit xSPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8504 862	US32D	SA	
1	Rim Exit x SPAR#NC-E11	19 TB 43 8510 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	

2	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	

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

Set: 23.0
Doors: A001-2
Description: **Pr Ext - ASF - Exit Device- 2N/DT - KR Mullion - Closer -Access Control

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE	
1	Electric Power Transfer	EL-CEPT	630	SU	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit x SPAR#NC-E11	LD TB 19 43 8510 862	US32D	SA	
1	Rim Exit xSPAR04867/NC-E11	LD 19 TB 43 56 70 8504 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	
1	Reader	By Security contractor		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.
Existing AI phone to remain.

At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Set: 24.0
Doors: A001-1
Description: **Pr Ext - ASF - Exit Device- NL x DT - Mullion - Closer

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit x SPAR#NC-E11	LD TB 19 43 8510 862	US32D	SA	
1	Rim Exit xNC-E11	LD 19 TB 43 70 8504 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
2	Door Position Switch	By Security.		OT	

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Set: 24.1
Doors: A006-2
Description: **Pr Ext - ASF - Exit Device- NL x DT - Mullion - Closer - Dog

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit x SPAR#NC-E11	19 TB 43 8510 862	US32D	SA	
1	Rim Exit xNC-E11	LD 19 TB 43 70 8504 862	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 P10	EN	SA	
2	Door Stop	462	US2C	RO	
2	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE	
1	Threshold	2005AT MSES25SS X Opening Width		PE	
1	Perimeter Seal	By door mfgr		OT	
2	Door Position Switch	By Security.		OT	

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Set: 25.0
Doors: B107B-2
Description: **Pr Ext - Lock- Closer

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	TB 351 P10	EN	SA
2	Door Stop	462	US2C	RO
1	Astragal Set (2)	18061CNB x Dr. Ht		PE
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
2	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
2	Door Position Switch	By Security.		OT

Notes: Closer on active leaf.

Set: 26.0
Doors: C105G-1
Description: **Sgl - ExT -HM - EX FR Exit- 2N Lever- Closer/HO - Access Control - Viewer - Keedex

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit 2N SPAR04867/NC-E11	LD 19 TB 43 56 70 8804 ETL	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	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
2	Viewer	622 x door thickness	DCRM	RO
1	Keedex Lock Protector	K12S - SGT		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 door manufacturer.

Set: 26.1
Doors: B111-2
Description: **Sgl - ExT -HM - EX FR Exit- 2N xEx ES Lever- Closer - Access Control - Viewer

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	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 P10	EN	SA
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Sweep IDF/MDF/Alum	18061CNB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Loop	DL-2		AK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
2	Viewer	622 x door thickness	DCRM	RO

Notes: Operation: Doors normally closed and locked. Valid card at the card reader retracts the latch on the active leaf for entry. Free egress at all times. Door status monitored. Confirm specified hardware is compatible with door manufacturer.
Existing electric strike to remain- Add doorbell linked to 2N

Set: 27.0
Doors: A005-2, B101H-2
Description: **Sgl - ExT -HM - Exit- SN200 - Closer - Access Control

1	Continuous Hinge	CFM HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804	US32D	SA
1	Vandal Resistant Trim	826	US32D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 P10	EN	SA
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
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.

Set: 28.0
Doors: B101B-2
Description: **Pr Ext - Storeroom/Mechanical - Closer

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Surface Bolt	580-12 @ top only	US26D	RO
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
2	Surface Closer	TB 351 P10	EN	SA
2	Door Stop	462	US2C	RO
1	Astragal Set (2)	18061CNB x Dr. Ht		PE
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
2	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
2	Door Position Switch	By Security.		OT

Notes: Closer on active leaf.

Set: 29.0
Doors: S1000-1
Description: **Sgl - Ext- Mech/Storage/Fire Riser - Closer

1	Continuous Hinge	CFM HD1 x Dr. Ht.		PE
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Surface Closer	TB 351 P10	EN	SA
1	Door Stop	462	US2C	RO
1	Gasketing	2891APK (head & jambs)		PE
1	Rain Guard	346C x Frame Width		PE
1	Sweep	345ANB x Dr. Width		PE
1	Threshold	2005AT MSES25SS X Opening Width		PE
1	Door Position Switch	By Security.		OT

Set: 30.0
Doors: A002-1
Description: **Pr Int- ASF - Vest SN200 Exit Device- NL/DT - Mullion - Closer /HO - Access Control

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE
1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE
1	Mullion	KR822 (FLK as req)	600	PR
2	Stabilizer	ST989	Dull Black	PR
1	Spacer	MCS822	689	PR

1	Rim Exit x SPAR04867/NC-E11	19 LD TB 43 70 56-SN200-8804 ETL	US32D	SA	
1	Rim Exit - DT x SPAR#NC-E11	19 LD TB 43 8810 ETL	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 PSH	EN	SA	
1	Perimeter Seal	By door mfgr		OT	
1	ElectroLynx Harness	QC-C1500P		MK	
2	ElectroLynx Harness	QC-C***P (length as req'd)		MK	
2	Door Position Switch	By Security.		OT	
1	Power Supply	Provided by security		SU	

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

Set: 31.0
Doors: A002-2
Description: **Pr Int- ASF - Vest Exit Device- NL/DT- Mullion - Closer /HO

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
1	Rim Exit SPAR NC-E11	LD 19 TB 43 70 8804 ETL	US32D	SA	
1	Rim Exit - DT x SPAR#NC-E11	19 LD TB 43 8810 ETL	US32D	SA	
2	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
2	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	
2	Surface Closer	TB 351 PSH	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Perimeter Seal	By door mfgr		OT	

Set: 31.1
Doors: A005-1
Description: **Pr Int- ASF - Vest Exit Device- 8813x8813- Mullion - Closer /HO

2	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
2	Rim Exit x SPAR#NC-E11	LD 19 TB 43 70 8813 ETL	US32D	SA	
3	Interchangeable Core	I/CK-7	626	BE	
1	Rim Cylinder	70 34 X #90 - 1/2	US32D	SA	
3	Const. Core	7190224	Green	BE	
2	Kit	581-1/ 581-2 as required	EN	SA	

2	Surface Closer	TB 351 PSH	EN	SA
2	Door Stop	481H	US26D	RO
1	Perimeter Seal	By door mfgr		OT

Set: 32.0
Doors: D103-2, D104-2
Description: **Sgl - Exit Device-Security CL - Closer - STC

3	Hinges	By the STC door manufacturer		OT
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 33.0
Doors: D103-1, D104-1
Description: **Sgl - Exit Device-NL - Closer - STC - Classroom

3	Hinges	By the STC door manufacturer		OT
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	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 34.0
Doors: F100-1
Description: Sgl - ASF Exit Device-Security CL - Closer / HO

1	Continuous Hinge	CFM SLF-HD1 x Dr. Ht.		PE
1	Rim Exit Sec CR x SPAR#NC-E11	19 LD 43 49 70 8816 ETL	US32D	SA
2	Interchangeable Core	I/CK-7	626	BE
2	Const. Core	7190224	Green	BE
1	Kit	581-1/ 581-2 as required	EN	SA
1	Surface Closer	TB 351 PSH	EN	SA
1	Door Stop	481H	US26D	RO

1	Perimeter Seal	By door mfgr		OT	

Set: 35.0
Doors: D105A-1
Description: **Pr - Int Classroom Sec CL x NL -Closer - STC

2	Continuous Hinge	CFM HD1 x Dr. Ht.		PE	
1	Mullion	KR822 (FLK as req)	600	PR	
2	Stabilizer	ST989	Dull Black		PR
1	Spacer	MCS822	689	PR	
2	Rim Exit x SPAR#NC-E11	LD 19 TB 43 70 8813 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	Door Closer	TB 351 O/P9 (type as required)	EN	SA	
2	Door Stop	481H	US26D	RO	
1	Gasketing	2891APK (head & jambs)		PE	

Set: 36.0
Doors: A100-1, A100-2, A100-3
Description: **Sgl- Int ASF- SN200 Lock- Closer - Access Control

1	Continuous Hinge	CFM SLF-HD1 PT x Dr. Ht.		PE
1	Electric Power Transfer	EL-CEPT	630	SU
1	SN200 Mort Lock	70 SN200-82271 OL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	481H	US26D	RO
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C***P (length as req'd)		MK
1	Door Position Switch	By Security.		OT
1	Power Supply	Provided by security		SU
1	Gasketing	By the frame manufacturer		OT

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

Set: 37.0
Doors: D103C-1, D104E-1
Description: **Sgl - Storeroom

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

3	Silencer	608		RO

Set: 38.0
Doors: D104D-1
Description: **Sgl - Storeroom - Wide

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

Set: 39.0
Doors: D108-1
Description: **Sgl - Storeroom - Closer - Gasket

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

Set: 40.0
Doors: D103B-1, D104A-1
Description: **Sgl - 8237

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

Set: 41.0
Doors: D104C-1
Description: **Sgl - 8204 - Practice STC

3	Hinges	By the STC door manufacturer		OT
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	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

Notes: Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.

Add 31- to panic devices if doors are over 1 3/4" thick.

Set: 42.0
Doors: D103A-1
Description: **Sgl - 8204 - Practice STC - Rated

3	Hinges	By the STC door manufacturer		OT
1	Storeroom/Closet Lock	70 8204 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 42.1
Doors: D104B-1
Description: **Sgl - 8237- Practice STC - Rated

3	Hinges	By the STC door manufacturer		OT
1	Classroom Lock	70 8237 LL	US26D	SA
1	Interchangeable Core	I/CK-7	626	BE
1	Const. Core	7190224	Green	BE
1	Door Closer	TB 351 O/P9 (type as required)	EN	SA
1	Door Stop	462	US2C	RO
1	Gasket, threshold, door bottom	By the STC door manufacturer		OT

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

Set: 43.0
Description: Not Used

1	Set	Not Used	OT

Set: 44.0
Doors: A004-3, B100-1, B100A-2, B100A-3, B111-3, C102-2, C104-1, C104-2, C104-3, C105-2, C105-3, C109-3, E161-2, S103-2, S103-3, S105-3
Description: **OH Coiling Doors - No Work

1	All hardware	Existing to remain	OT

Set: 45.0
Doors: S1000-2
Description: **OH Coiling Doors - Manual

1	All hardware	By the door manufacturer	OT

Notes: Verify cylinder type required.

Set: 46.0
Doors: A006-3, A006-4, A100D-1, A100HA-1, A100J-1, A100L-1, A102A-1, A102B-1, A102C-1, A106A-1, A106A-2, A106B-1, A106B-2, A106C-1, A106C-2, A108-1, A109A-1, A109B-1, A109C-1, A109C-2, A109D-1, A109E-1, A110-1, A112-1, B100A-1, B100B-1, B100B-2, B100C-1, B100C-2, B101A-1, B101A-2, B101AA-1, B101AB-1, B101B-1, B101C-1, B101G-3, B101H-1, B102-1, B102A-1, B104A-1, B105-1, B105-2, B106-1, B107A-1, B107A-2, B107AA-1, B107AB-1, B107B-1, B107D-1, B107G-2, B107G-3, B107H-2, B108-1, B108B-1, B109A-1, B109B-1, B110-2, B110-3, B110A-1, B110B-1, B110B-2, B110C-1, B110D-1, B112-1, B112A-1, B113-1, B114-1, B115-1, B115-2, B115A-1, B118-1, B118-2, B118A-1, B118B-1, B118B-2, C102-1, C103-1, C105-1, C105A-1, C105B-1, C105BA-1, C105BB-1, C105C-1, C105D-1, C106-1, C107-1, C107-2, C108-1, C109-1, C112-1, C113-1, D100E-1, D101A-1, D101A-2, D101B-1, D102A-1, D105-1, D106A-1, D106B-1, D106C-1, D106D-1, D106E-1, D106F-1, D106G-1, D107-1, E100-1, E100B-2, E100G-2, E100J-1, E100K-1, E101A-1, E109-1, E111A-1, E111B-1, E111C-1, E112-3, E114-1, E114-2, E114A-1, E116-1, E120-1, E124A-1, E124A-2, E126-1, E126-2, E126A-1, E128-1, E131A-2, E132-1, E133A-1, E133B-1, E135-1, E135-2, E135A-1, E137-1, E141-1, E142-1, E144-1, E144-2, E144A-1, E146-1, E149-3, E150-3, E152-1, E152-2, E152A-1, E154-1, E158-1, E160-1, E161-1, E200-1, E200B-2, E200D-1, E207A-2, E207A-3, E209-1, E209-2, E209A-1, E211-1, E216-1, E221-1, E221-2, E221A-1, E226A-2, E226A-3, E228-1, E229-2, E229A-1, E231-1, E231-2, E231A-1, E233-1, E237-1, E238-1, E240-1, E240-2, E240A-1, E242-1, E246A-2, E248-1, E248-2, E248A-1, E250-1, E254-1, F100A-1, F100B-1, F100B-2, F101-1, F101A-1, F101B-1, S101-1, S102-1, S103-1, S104-1, S105-1, S105-2, S-201-1, S-201-2
Description: No Work

1	All hardware	Existing to remain	OT

Set: 47.0
Doors: Attic
Description: **Attic Stock - EVERY CAMPUS

5	Classroom Security Intruder Lock Body SA		8238	US26D
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	Electromagnetic Holder	994M 24VAC	689	RF
5	994M Magnetic Parts	Door Armature 994510M	689	RF
5	994M Magnetic Parts	Screw & Backplate 998300	689	RF
5	994M Magnetic Parts	Swivel Armature 900-3	689	RF
5	994M Magnetic Parts	Magnet Assembly 998369-3V	689	RF
5	994M Magnetic Parts	Wall Cover 998315M	689	RF

5	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 from the distributor.
DO NOT ship to jobsite.

END OF SECTION 087100

END OF SECTION 087100

SECTION 28 31 00
INTRUSION DETECTION SYSTEM (IDS)

PART 1 - GENERAL

1.1 RELATED WORK

A. The following sections shall associate with this specification as applicable.
   1. General Conditions
   2. Supplementary Conditions
   3. Division 1
   4. Division 26 in its entirety.
   5. Division 27 in its entirety.
   6. Division 28 in its entirety.

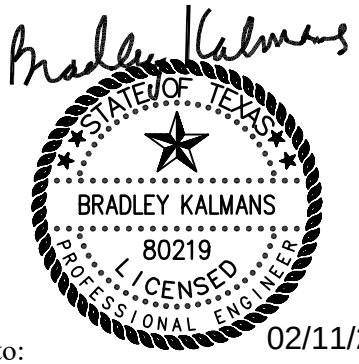
1.2 WORK INCLUDED

A. The Contractor shall expand existing microprocessor based Intrusion Detection System (IDS) as specified herein. The IDS shall include, but not be limited to, all control equipment, power supplies, power circuits, signal initiating and signaling devices, conduit, wire, fittings, and all other accessories required to provide a complete and operable system.

B. IDS devices indicated are for reference and coordination purposes only. The installing contractor shall design and provide a complete system, meeting the requirement of specification. The Contractor shall provide all security system devices required for complete system perimeter coverage acceptable to all governing authorities, Architect and Owner.

C. The IDS shall include intrusion detection coverage as shown on the system floor plans. Whether shown on the floor plans of not, complete coverage of the following areas shall be included:
   1. All access points into the building(s), including but not limited to:
      a. Doors
      b. roof hatches
      c. windows
   2. Interior space motion detection at the following locations:
      a. All level 1 spaces with window and/or doors
      b. All entrances on any level

D. The IDS shall be the product of a single manufacturer and consist of, but not be limited to the following:
   1. Control Panels
   2. Field Devices
   3. Enclosures
   4. Locks and Keys
   6. Power Supplies
   7. Accessories required to provide a complete IDS
   8. System O and I Manuals
   9. System Programming
   10. Batteries
   11. Wiring



02/11/2025

E. The IDS installer shall be responsible for, but not limited to:
   1. Tagging of all conductors and cables at each end.
   2. Provision and installation of IDS control panels.
   3. Provision and installation of IDS devices.
   4. Full coverage of all windows, doors, roof hatches.
   6. Preconstruction meeting with Owner's personnel, installing technician and project

superintendent.

F. The contractor shall connect this location to the Owner's monitoring station as designated by the owner.

G. The Contractor shall be responsible for identifying requirements for permits, from the local the Local Authority Having Jurisdiction (AHJ), for the installation of the alarm system specified herein and shall assist the Owner in obtaining the relevant alarm permits.

H. All conduits and back boxes shall be provided and installed by the project's electrical contractor. In the event that there is no electrical contractor on the project, responsibility will be that of the IDS installer.

I. The documents issued for this project are conceptual in nature, including but not limited to specifications and drawings. It shall be the responsibility of the approved installer to furnish a complete and functional system, including the items shown on the drawings, in the specifications, and items not designated in either. The installer's shop drawings and product data submittals shall represent a complete system, and documents accepted do not relieve the installer from being required to provide any materials, equipment, or labor to furnish a complete and functional system as recognized by the Project's Technology Consultant and the Owner.

J. Contractor shall integrate all Emergency Eyewash systems into the IDS. Provide cabling connecting both systems. Coordinate with Emergency Eyewash systems contractor.

K. Contractor shall connect the Intrusion Detection System to the electrical automatic transfer switch in order to notify the District Police Department when the building is on emergency power. Provide same, connected to existing transfer switch at the existing Commons building, servicing the existing High School buildings. Provide all required cabling and devices for fully functional systems.

L. Scope of work includes expanding existing system.

1.3 CODES AND STANDARDS

A. The system shall comply with the applicable Codes and Standards as follows:
   1. National Electric Code, Article 760.
   2. National Fire Alarm Code (NFPA 72).
   3. Life Safety Code (NFPA 101)

B. Administrative Council for Terminal Attachments (ACTA):
   1. ANSI/TIA-968-A-2002 Technical Requirements for Connection of Terminal Equipment to the Telephone Network.

C. American National Standards Institute (ANSI):
   1. ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

D. California State Fire Marshal (CSFM):
   1. Title 19, California Code of Regulations, Building Material Listing Program (BML).

E. Federal Communications Commission (FCC):
   1. Title 47 C.F.R. Part 15; Class B – Radiated and Conducted Emissions.
   2. Title 47 C.F.R. Part 68; rules governing the connection of Terminal Equipment (TE) to the Public Switched Telephone Network (PSTN).

F. The National Institute of Standards and Technology of the United States of America (NIST):
   1. Federal Information Processing Standards Publications 197 (FIPS 197) –Advanced Encryption Standard (AES).

G. International Organization for Standardization (ISO):
   1. 9001 - Quality System.
H. Underwriters Laboratories, Inc. (UL):
   1. UL 50 - Enclosures for Electrical Equipment.
   2. UL 294 – Access Control System Units.
   3. UL 365 - Police Station Connected Burglar Alarm Units and Systems.
   4. UL 609 - Local Burglar Alarm Units and Systems.
   5. UL 864 - Control Units System for Fire-Protective Signaling System.
   6. UL 985 - Household Fire Warning System Units.
   7. UL 1023 - Household Burglar Alarm System Units.
   8. UL 1076 – Proprietary Burglar Alarm Units and Systems
   9. UL 1610 - Central Station Burglar-Alarm Units.
   10. UL 60950-1 - Information Technology Equipment - Safety.
   11. UL 636 – Hold up alarms
I. Local & State Building Codes
J. Requirements of Local Authorities having Jurisdiction
K. Requirements of American Disabilities Act (Public law 101-336).
L. Texas Accessibility Standards (TAS)
M. State Fire Marshall.
N. State Insurance Code.

1.4 QUALITY ASSURANCE

A. Contractor Qualifications:
   1. The installing contractor shall be the authorized representative of the IDS authorized/certified to sell, install, and service the proposed manufacturer's equipment. The installing contractor shall have represented the IDS manufacturer's product for at least five (5) years.
   2. The installing contractor shall be certified to install and setup the IDS software with Security Engine and Access Engine Modules attached.
   3. The installing contractor shall be licensed by the State of Texas as a security services contractor to design, sell, install, and service security alarm systems and access control system.
   4. The installing contractor shall provide 24-hour, 365 day per year emergency service with factory trained service technicians.
   5. The installing contractor shall have personnel on their staff that has been actively engaged in the business of designing, selling, installing, and servicing security alarm systems for at least ten (10) years.
   6. The System Installer must submit to the owner prior to starting any work the factory training certificates for all personnel that will be working on the specified IDS. No person is allowed to work on the IDS without proper manufacturer's certification.

1.5 SUBMITTALS AND CLOSE-OUT

A. Product Data: Within fourteen (14) days of Notice to Proceed, the system installer shall furnish the following in a single consolidated submittal:
   1. Permits: The Contractor shall obtain all required permits and provide copies to the Owner / Architect / Engineer.
   2. Product Literature: Complete manufacturer's product literature for all system equipment, power supplies, cable, termination components, cable supports, cable labels, field devices, and other products to be used in the installation. In addition, whenever substitutions for recommended products are made, samples (when

requested by the Owner/Designer) and the manufacturer's supporting documentation, demonstrating compatibility with other related products shall be included. The submittal shall have some type of distinguishing marker or pointer to indicated what specific product is to be submitted.

3. Construction Schedule: A time-scaled Construction Schedule indicating general project deadlines and specific dates relating to the installation of the cable distribution system.
4. Specification Compliance: A letter shall be provided stating, by section and subsection, that the system installer complies with the ENTIRE specification section. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been accepted by the project's technology consultant.
5. Certifications: The System Installer shall submit all of the following certifications and the certifications must contain dates which are valid from the date of proposal and not expirer any sooner than 12 months after substantial completion of the project.
    a. Manufacturer's Authorized Dealer/Installer Certification: This certification must be held by the proposing/installing contractor and state that the proposing/installing contractor is and authorized dealer/installer of the system specified within the project specifications. The certification must have been obtained by the office that is within a 75-mile radius of the project's location.
    b. Installer Certification: This certification must be held by at least 25% of the, on-site, staff and be made available at the site if requested by the owner, architect, and/or project's technology consultant.
    c. Licenses: This includes all licenses required by the state in which the work is being performed, the federal government, local authorities having jurisdiction, and any organization in that governs the specific system

B. Shop Drawings: Submit the following items, for Owner review and approval, within twenty-eight (28) days of notice to proceed:

1. Proposed circuit routing and circuit grouping plan prepared by a system registered designer. The designer's certification must be current. Identifiable, separate routing shall be shown for both the station cabling and any backbone trunk cabling.
2. In addition to the cable routing, the submitted drawings shall indicate the following, even if the following is expected to be provided by the project's electrical or general contractor:
    a. Location of all control equipment and remote power sources
    b. Locations of all field devices and outlets
    c. Location of wall penetrations (all penetrations shall be sleeved and contain protective bushings at both ends)
    d. Location of sleeved wall and/or floor pass-thru
    e. Size of sleeve at each location installed
    f. Quantity of cable passing through each sleeve
    g. Conduit routing, size, quantity, and stub-up locations for any floor mounted outlets or outlets installed in casework.
3. Drawing Compliance: A letter shall be provided stating that the system installer complies with the entire project drawing, including all general, keyed, and notes to contractor. If the installer intends to deviate from any portion of the

specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been approved by the project's technology consultant.

C. Close-out Procedures: For review and acceptance, furnish an electronic copy of the following documents to the Architect / Engineer. Upon acceptance of the submitted close-out documents, provide four (4) copies on an electronic storage media (CD or USD Flash Drive) Labeled with the project name, date of submission, and the name of the submitting firm. Final copies shall be delivered directly to the project's Technology Consultant. The closeout submittals shall include the following and be packaged in a storable container with the physical storage media and any physical items listed:

1. Inspection and Test Reports: During the course of the Project, the System Installer shall maintain an adequate inspection system to ensure that the materials supplied, and the work performed, conform to contract requirements. The System Installer shall provide written documentation that indicates that materials acceptance testing was conducted as specified. The System Installer shall also provide documentation, which indicates that all cable termination testing was completed and that all irregularities were corrected prior to job completion.
2. Provide complete test reports for all cabling and devices that comprise system as outlined in this document.
3. Include the Name, address and telephone of the authorized factory representative with a 24-hour emergency service number.
4. The manual shall also include Manufacturer's data sheets and installation manuals/instructions for all equipment installed and a list of recommended spare parts.
5. Generic or typical owner's instruction and operation manual shall not be acceptable to fulfill this requirement.
6. An up-to-date record ("as-built") set of approved shop drawing prints that have been revised to show each and every change made to the system from the original approved shop drawings.
7. As-built Drawings shall include cable pathways; device locations with correct labeling, control equipment locations, remote power supply locations, cross connect locations, and lightning protection locations. The as-built drawings shall be prepared using AutoCAD 2014 or later.
8. All drawings must reflect point to point wiring, device address and programmed characteristics as verified in the presence of the engineer and/or the end user unless device addressing is electronically generated, and automatically graphically self-documented by the system.
9. A copy of the manufacturer's warranty on the installed system.
10. Any keys to cabinets and/or equipment and special maintenance tools required to repair, maintain, or service the system.
11. Operating and Maintenance Instructions for all devices within the system. These instructions shall reflect any changes made during the course of construction, and shall be provided to the Owner, for their use, in a three-ring binder labeled with the project name and description. (4 copies)
12. Upon completion of the work and at a time designated by the Architect or owner, provide formal training sessions for the Owner's operating personnel to include location, operation, and maintenance of all included systems and equipment. Provide a video copy of the training session as well as all sign in and training sign off sheets
13. One (1) 30" x 42" laminated floor plan sheets illustrating device locations,

system wiring configuration, and cable designation. The System Installer shall provide one complete floor plan sheet at each panel location

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS AND INSTALLERS

A. Acceptable Manufacturer: Bosch Security Systems, Inc.; 130 Perinton Parkway; Fairport, NY 14450. ASD. Toll Free Tel: 800-289-0096. Tel: 585-223-4060. Email: request info (presales.support@us.bosch.com). Web: www.boschsecurity.us.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Division 1

2.2 CONTROL COMMUNICATOR (Panel)

A. The IDS control panel shall be Bosch Security Systems, Inc., model # B9512G comprising a fully integrated intrusion, fire, and access control system. The control panel shall support the following:

1. The IDS system is capable of being utilized as a combination Intrusion and Fire system per code. Fully integrated intrusion, access and fire functions allow users to interface with 1 system instead of3
2. Telephone Line Module Interface with programmable options for signaling and supervision.
3. Conettix IP based communication option provides high-speed, secure alarm transport and control.
4. 32 programmable areas with perimeter and interior partitioning.
5. 8 on-board, class B hardwired points with expansion capability for a total of at minimum 500 wired or wireless points.
6. Compatibility with touch-screen color LCD, vacuum fluorescent, ATM style LCD or LED style Alarm Command Centers.
7. Local or remote programming, test, and diagnostic capability via a computer running the Remote Programming Software(RPS).
8. The system shall support the use of an Apple iOS device for control. Functions to include arming, disarming, control of outputs, lock, unlock, cycle and secure access doors.
9. Integrated real time clock, calendar, test timer and programmable scheduling capability for relay control and automatic execution of system functions based on a time / event.
10. Provide 1.4 amps of power for standby operation and 2 amps of alarm power, both rated at 12 VDC.
11. 2 wet-contact relay outputs and 1 Auxiliary wet-contact relay output with expansion capability for up to an additional 128 dry-contact relay outputs.
12. Integrated battery charger with reverse hook up protection, battery supervision and battery deep discharge protection.
13. Supervision of peripheral devices and communications interface(s).

B. All small installations such as press boxes or tractor sheds shall use Bosch Model #5512 main control panel.

C. Programmable features shall include:

1. Independently control zones through an independent zone control keypad.
2. Automatic test reports.
3. Selective zone shunting.
4. Custom text on the associated command centers.

D. Zone Expansion - Expanded to 500 (8 on-board, 492 off-board) individually annunciated

points of protection through the addition of a two-wire multiplex zone expansion system (ZONEX). Points of protection are annunciated with custom text at the B915 Command Center and they can be reported to a Radionics D6600Receiver.

E. User Pass Codes – nine hundred ninety-nine (999) user pass codes shall be available to identify the user when arming/disarming the system.

F. Protective Circuits shall consist of zones designed for fire and/or panic (holdup, duress, or emergency) and/or burglary and/or supervisory. Each zone represents a protective circuit and shall accommodate normally opened and closed devices with end-of-line resistor supervision. Each of the 500 points are programmable as to whether they are controlled versus 24 hours; interior versus perimeter; instant versus delayed; silent versus audible (and if audible, pulsed or steady); and local or reporting.
   1. Additional programmable parameters for each point include the ability to suppress trouble or restoral reports, designate it as a priority zone (system cannot be armed if this point is off-normal), report two separate telephone numbers and provide for automatic shunting of points from the system in the event that the detection device malfunctions and creates numerous false alarms.
   2. Each POPIT shall accommodate normally opened and normally closed devices with end-of-line resistor supervisor.
   3. Minimum total points, 500.

G. Entry/exit delays shall be independently programmable from 10 to 150 seconds. A pre-warn audible shall be coincident with the entry delay.

H. Programming of all system functions shall be achievable at system site or remotely via the use of the dial-up telephone network. Minimum programmable functions shall include:
   1. User pass codes, entry/exit delay times, master zone personality, day/date/time, telephone numbers, point of protection text labels, and bell time.
   2. A programmable system pass code shall be used to prevent unauthorized remote programming attempts.
   3. Remote programming capability shall be automatic or require user enabling at the discretion of the user.

I. Remote control via the use of the dial-up telephone and owner's local area network shall include:
   1. System arming.
   2. Reset of audible signals.
   3. Activation/deactivation of relay contacts.
   4. Interrogation of battery.
   5. Zone and armed status.
   6. Enable/disable of reporting functions and removing reporting devices for servicing while the remainder of the system is operative.

J. Recognitions shall include: UL for central station fire and/or burglary, local burglary and/or fire; FM for fire, California Fire Marshal for fire; and NYBSA for fire.

K. Miscellaneous built-in features shall include:
   1. Real-time clock.
   2. Interrogator.
   3. Auto-answer modem.
   4. Phone line monitor.
   5. Loop start/ground start telephone interface.
   6. Auto bell test.
   7. Lug-in terminal strips, and user controlled zone bypass.

L. Command centers shall be microprocessor-based
   1. 16 character illuminated alpha-numeric display.

2. Burglary and fire sounders.
3. Backlight 15-key touchpad.
4. Pre-warn tone.
5. The arming station shall have the ability to annunciate the English language format via the 16 character alphanumeric display by the following:
   a. Master zone (alarm, service, faulted, and function), POPIT (alarm, service, faulted, missing, extra, function, and location), arm/disarm status (system diagnostics, time/day/date, and user prompts).
6. Additional features shall include local system test, sensor reset, panic and/or medical and/or duress alarm initiation, independent master zone by-pass with automatic restoration to normal status to next system arming, perimeter watch mode, user changeable pass codes, remote programming initiation, and system/monitoring service test.
7. Radionics model B915, and shall be functional at each of the locations shown on the floor plans.
8. Non-school oriented buildings will use Radionics Model B942 Touch Screen Keypads

M. Modules and Accessories
1. POPEX Module (Zone Expansion B299)
2. B8103 Main Panel Enclosure & D101 Lock set- one required for the main panel and one for each quadrant of the project receiving a B299.
3. D9002-5 6 location 3 hole Mounting plate- adapter used for hanging modules in all expansion panels.
4. B430 Telephone Line Interface
5. B308 Octo-Relay module - provides eight form "C" dry contact relay outputs for a variety of programmable responses to alarm, trouble and other system conditions.
6. Auxiliary power supplies as required for powering of motion detectors, Altronix Power Supply (Part # SMP10PM12P8) - one required for each quadrant of the project receiving a B299.

2.2 FIELD DEVICES

A. Ceiling mounted 360 Degree, infrared sensors / microwave motion sensors. Model DS 9370
1. Bracket for direct mounting to standard 3-1/2" and 4" electrical back boxes.
2. All units must be adjusted/masked to reduce false signals for the covered area.
3. Contractor to provide a dedicated POPIT for each motion detector on the project.

B. Ceiling mounted 200ft Long Range infrared sensor. Model DS794Z
1. Bracket for direct mounting to standard 3-1/2" and 4" electrical back boxes.
2. All units must be adjusted/masked to reduce false signals for the covered area.
3. Contractor to provide a dedicated POPIT for each motion detector on the project

C. Wall mounted, high performance, Tri Tech PIR/Microwave sensor, Model ISC-CDL1-W15G
1. Bracket for direct mounting to standard 3-1/2" and 4" electrical back boxes.
2. All units to have areas of coverage, which would cause false alarm signals to be generated, masked out and adjusted to reduce false signals.
3. Provide model correct protective wire cage in gymnasiums.
4. Contractor to provide a dedicated POPIT for each motion detector on the project.

D. Magnetic Door / Hatch / Overhead Contacts
1. Where exposed contacts are used they shall be heavy duty switches protected by die cast aluminum housing and the leads shall be encased in steel armor jacket.

The leads must pass through the back box by the correct size twin screw cable clamp connector.

2. Magnetic Door / Hatch contacts shall be model Sentrol 2505A-L contact
3. Overhead Roll up contacts shall be model Ademco 958 contact
4. Contractor to provide a dedicated POPIT for each entry door, set of doors, roof hatch or rollup door on the project.

E. Glass Break Detector
1. Bracket for direct mounting to standard 3-1/2" and 4" electrical back boxes.
2. Provide model correct protective wire cage in gymnasiums.
3. Glass breaks shall be Model GE 5812-RND or Bosch DS-1108DI
4. Contractor to Provide dedicated POPIT for each room of glass break detectors on the project.

F. Sirens
1. Shall be installed on Wall / Ceiling within 50 foot of every keypad location.
2. Wired directly to corresponding relay module and not the main control panel.
3. Sirens shall be Model SSX-52 Amseco.

2.3 WIRING

A. All wiring shall be by the manufactures (Bosch/Radionics) specifications. All cable is preferred but not limited to be shielded.
B. Each area of a building shall provide its own Popex Module(s), Power supply(ies) and enclosure(s) in that areas IDF. All areas considered should be at minimum 500ft from the main panel or as otherwise instructed by owner.
C. All 120v Power shall be furnished by the contractor.
D. All Security system conduits as show on the drawings shall be furnished by the contractor as part of their scope of work.
E. Coordination with the electrical contractor is the responsibility of the Security Contractor to ensure all conduit is in place for a complete installation.
F. All systems shall be connected to an emergency power source as available.
G. Color code of all security intrusion detection system and access control wiring shall be purple in color.
H. Approved Products:
1. 18/2 unshielded:
Belden #6300UE0071000
Tappan Wire & Cable, Inc. #P40020.122
2. 18/4 unshielded:
Belden #6302UE0071000
Tappan Wire & Cable, Inc. #P41387.28
3. 18/6 unshielded:
Belden #6304UE0071000
Tappan Wire & Cable, Inc.

PART 3 - EXECUTION

3.1 INSTALLATION

A. All wiring shall be in accordance with the National Electrical Code, Local Codes, and article 760 of NFPA Standard 70. All wiring sizes shall conform to recommendations of the equipment manufacturer, and as indicated on the engineered shop drawings
B. All wire shall be UL Listed CL2 for limited energy (300V) applications and shall be installed in conduit. Limited energy MPP wire maybe run open in return air ceiling plenums provided such wire is UL Listed for such applications and is of the low smoke producing fluorocarbon type and complies with NEC Article760 if so approved by the local authority

having jurisdiction.

C. No AC wiring or any other wiring shall be run in the same conduit as security alarm wiring.

D. All wire shall be installed in an approved conduit/raceway system (except where permitted by NEC and the local authority having jurisdiction). Maximum conduit "fill" not to exceed 40% per NEC.

E. Minimum conduit size shall be 3/4" EMT. Install conduit per engineered shop drawings.

F. Systems utilizing open wiring techniques with low smoke plenum cable shall provide conduit in all inaccessible locations such as inside walls, all mechanical / electrical rooms, or other areas where wiring might be exposed or subject to Damage.

G. All vertical wiring and all main trunk / riser wiring shall be installed in a complete raceway / conduit system. All riser boxes shall be adequately sized for the number of conductors transversing the respective box as well as the number of terminations required.

H. Provide a Green Systimax Category 6 telephone cable from the Master Control Panel to the Telephone Equipment room.

I. (2) 18-4 wires will be run from the panel to the prior designated future portable connection location and labeled in plain English on both ends. These spares are to be left above the ceiling with 10ft of slack at minimum.

J. Each set of glass breaks that protect one room are to be connected through one POPIT module for point identification of that room.

K. Magnetic door contacts protecting separate hallways or entries are to be connected into separate POPIT modules for separate identification.

L. Provide and install (1) dedicated POPIT for each device installed on the project including but, not limited to glass break detectors.

M. All POPIT Modules shall be installed inside a 4"x4" junction box with a cover to be mounted on the wall nearest to the device the POPIT Module is associated with. All boxes shall be labeled with the appropriate corresponding point contained within.

N. Integrate the security system to the remote monitoring station. Provide all hardware and cabling as required. Coordinate with Owner for approved remote monitoring service.

O. All POPIT modules on project shall be mounted above drop ceiling in an area easily accessible by an 8 or 6 ft ladder.

P. All keypads, sirens and POPEX modules shall have dedicated homeruns from each device to the master control panel. Do not daisy chain keypads or sirens. Chaining of modules is permitted if location serves multiple areas of coverage.

Q. All POPIT modules and power supplies are required to be located on as-built drawings delivered to owner at or before substantial completion of project.

R. Contractor shall install communication wire from provided exterior connection at freezer/cooler control panels to burglar alarm via POPIT module interface to notify panel should freezer/cooler encounter high temperature condition. Coordinate programming and testing of module with owner.

S. All POPEX modules and power supplies shall be installed in IDF closets for that area of coverage with easy accessibility and a dedicated SDI2 homerun to the master control panel not to exceed 500ft.

T. All device power runs shall be fused and clearly labeled in plain English at each main power source.

U. All Eyewash stations shall have a dedicated POPIT module interface per device on the project and be wired Normally closed for monitoring purposes.

V. Any generator on site must be monitored through a dry Normally closed contact connection to a dedicated POPIT module and tested to confirm its function for main

building AC Loss.

3.2 CABLE PATHWAYS

A. Cable Support:
   1. All wire not installed inside conduit or a designated cable tray system shall be installed in a dedicated cable support system for the entire run of each cable. Including, but not limited to service loops.
      a. Approved Cable Support Manufacturer:
         Panduit Corporation
         Erico/Caddy
         B-Line
         Supports shall be sized appropriately for the number of wires being supported. Reference the manufacturer's specifications for the suggested maximum cables per support size.
   2. The approved cable support system shall be attached directly to the building steel at a serviceable height. In the event that the building steel is not 5' of the finished ceiling, the contractor shall provide a dedicated threaded rod extending within 5' of the finished ceiling and mount the cable support hook to the treaded rod.
   3. The cable support shall be installed at a maximum of 5' on center.
   4. All cable installed shall be attached to the cable support system with plenum rated Velcro and a plenum rated Velcro tie shall be installed between each cable support, to keep wires neatly bundled throughout the entire run. Tie wraps will only be allowed to be used inside the control panels as required to manage the wires within each type of panel.
   5. Absolutely no cable, not installed in conduit, will be allowed to be attached directly to the building's steel or supported in any other method than that stated above.
   6. It is the responsibility of the installing contractor to coordinate with all other trades on the project to insure that the pathway of this system does not interfere with the installation of the other trades and to prevent the installed product of other trades from putting strain on the installed wiring.

B. Conduit / Raceway:
   1. All wire shall be installed in an approved conduit/raceway system (except where permitted by NEC and the local authority having jurisdiction). Maximum conduit "fill" shall not exceed 40% per NEC.
   2. Conduit and raceway system shall be installed as specified under the general electrical section of the specifications, and per NEC.
   3. Minimum conduit size shall be 3/4" EMT. Install conduit per engineered shop drawings.
   4. Systems utilizing open wiring techniques with low smoke plenum cable shall provide conduit in all inaccessible locations, inside concealed walls, all mechanical/electrical rooms, or other areas where wiring might be exposed or subject to damage.

3.3 SYSTEM OPERATION

A. When an alarm condition is detected by any of the alarm initiating devices, the following functions shall occur:
   1. The system keypad's interior audible device shall sound until silenced by using proper security code or after system time out.
   2. A custom system alarm message shall be displayed on the LCD display. This display will show the alarm device location in plain English. Location and partition custom messages shall be field programmable.

3. The remote signaling tie connection shall be activated at the Owner's approved central security monitoring location and/or other Owner designated location.
4. Printer shall provide printed copy of events recorded in logger. Install adjacent to security panel.

3.4 SYSTEM ZONING AND PARTITIONING

A. The system shall employ intelligent initiating devices and interface devices capable of being recognized and enunciated at the main system keypad and devices partition keypad.
B. All zoning/device locations shall be field programmable.
C. Input control zones shall be coordinated with the owner prior to final programming:

3.5 TESTING

A. Submit a written test report from an authorized representative of the equipment manufacturer that the system has been 100% tested and approved. Final test shall be witnessed by Owner, Engineer, Electrical Contractor and performed by the equipment supplier. Final test report must be received and acknowledged by the Owner prior to substantial completion.
B. Provide instruction as to proper use and operation of system, for the Owner's designated personnel.

3.6 WARRANTY

A. Entire system shall be warranted against defects in materials and workmanship for a period of one (1) year from the date of substantial completion.
B. Any Extended Manufacturer's Warranty will be provided to the Owner if the Sub-contractor entitled to the job has an agreement for an extended warranty already in place with the Manufacturer.

3.7 SOFTWARE

A. Provide two electronic copies of the final programming and program software to the Owner's Police Technology Foreman after final approval.

END OF SECTION

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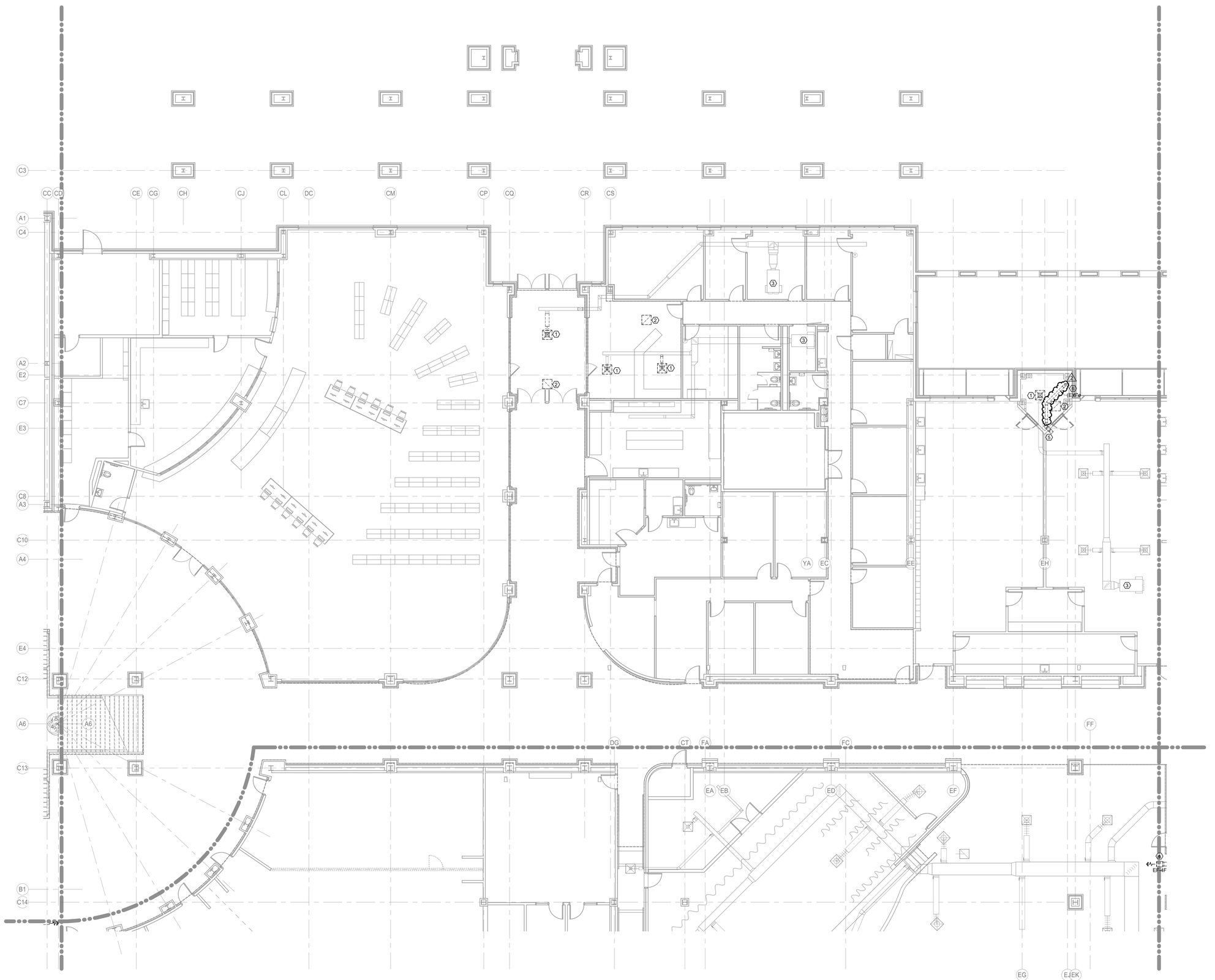

N

1 **MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

Salas O'Brien
salasobrien.com 281-664-1900
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064

Registration: F-4111
Project No: 2024-00209-00

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING: THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

GENERAL NOTES:

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED ROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, FANS, CONDENSING UNITS, BMCS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES.
2. 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.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

DEMOLITION KEYED NOTES:

1. REMOVE EXISTING SUPPLY AIR GRILLE AND DUCTWORK TO POINT INDICATED.
2. REMOVE EXISTING RETURN AIR DEVICE.
3. EXISTING DUAL DUCT BOX TO REMAIN.
4. REMOVE EXISTING EXHAUST FAN ASSOCIATED DUCTWORK, CONTROLS AND ELECTRICAL CONNECTIONS.
5. REMOVE EXISTING RETURN AIR TRANSFER.
6. REMOVE EXISTING 6" EXHAUST DUCTWORK.

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

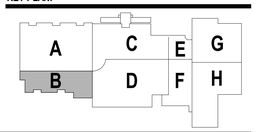
SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'C'

M0.03

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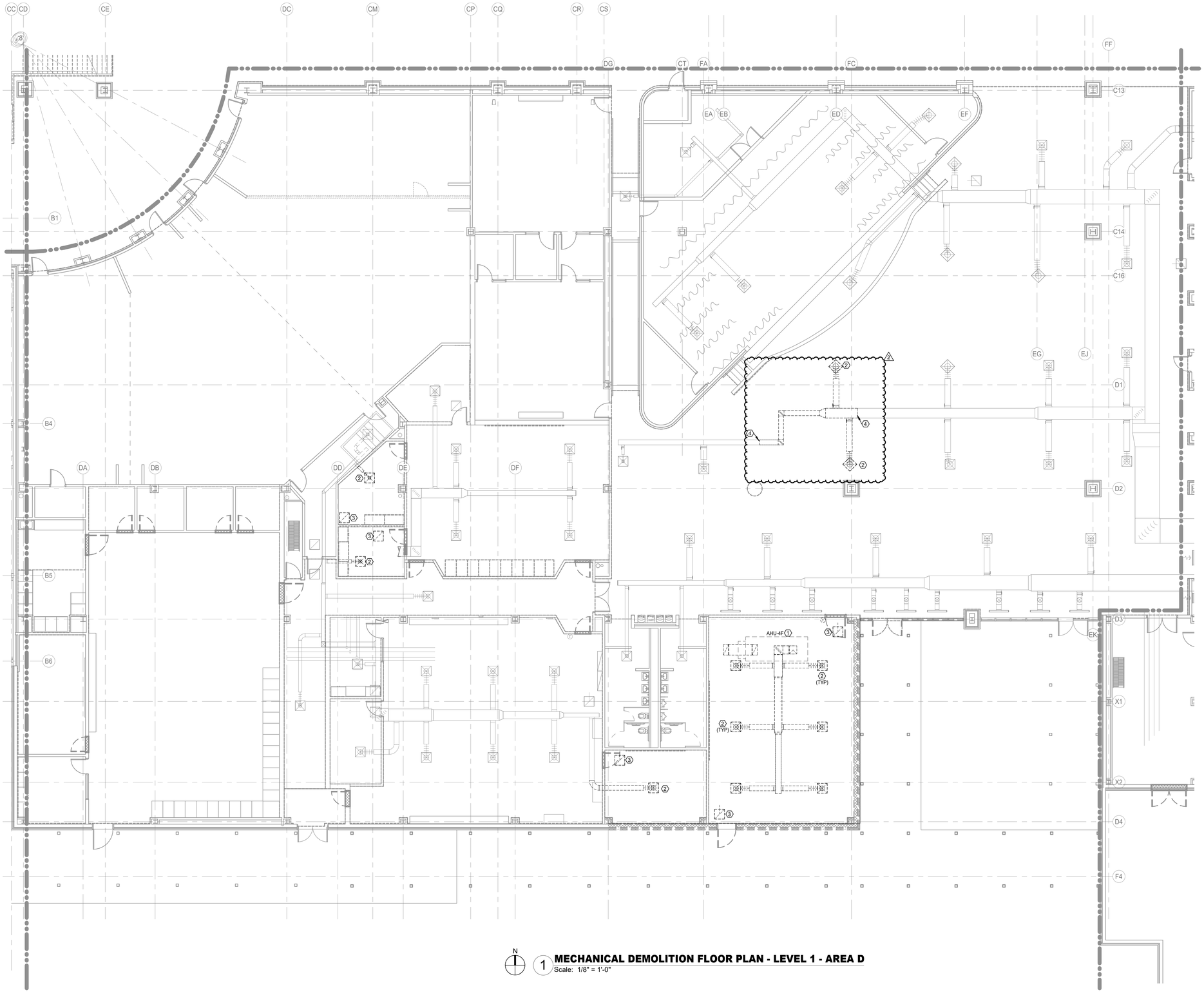

N

1 **MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D**
Scale: 1/8" = 1'-0"

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING: THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

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GENERAL NOTES:

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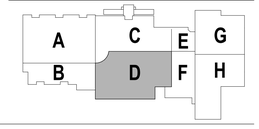
2. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

DEMOLITION KEYED NOTES:

1. REMOVE EXISTING ROOF MOUNTED UNIT UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ELECTRICAL CONNECTIONS.
2. REMOVE EXISTING SUPPLY AIR GRILLE AND EXISTING DUCTWORK UP TO INDICATED POINT.
3. REMOVE EXISTING RETURN AIR DEVICE.
4. REMOVE EXISTING PORTION OF DUCTWORK AS INDICATED. SEE M2.04 FOR MORE INFORMATION.

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

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2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'D'

M0.04

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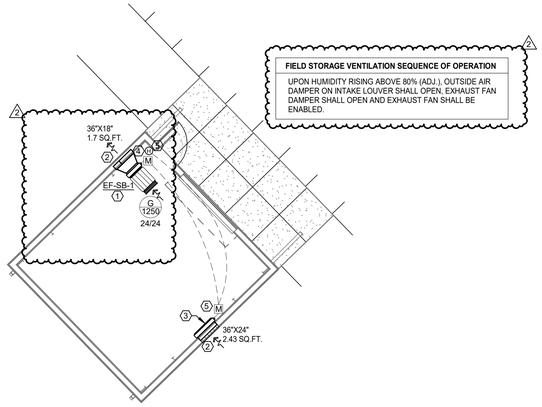

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2 MECHANICAL SITE PLAN - STORAGE BUILDING

Scale: 1/8" = 1'-0"

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

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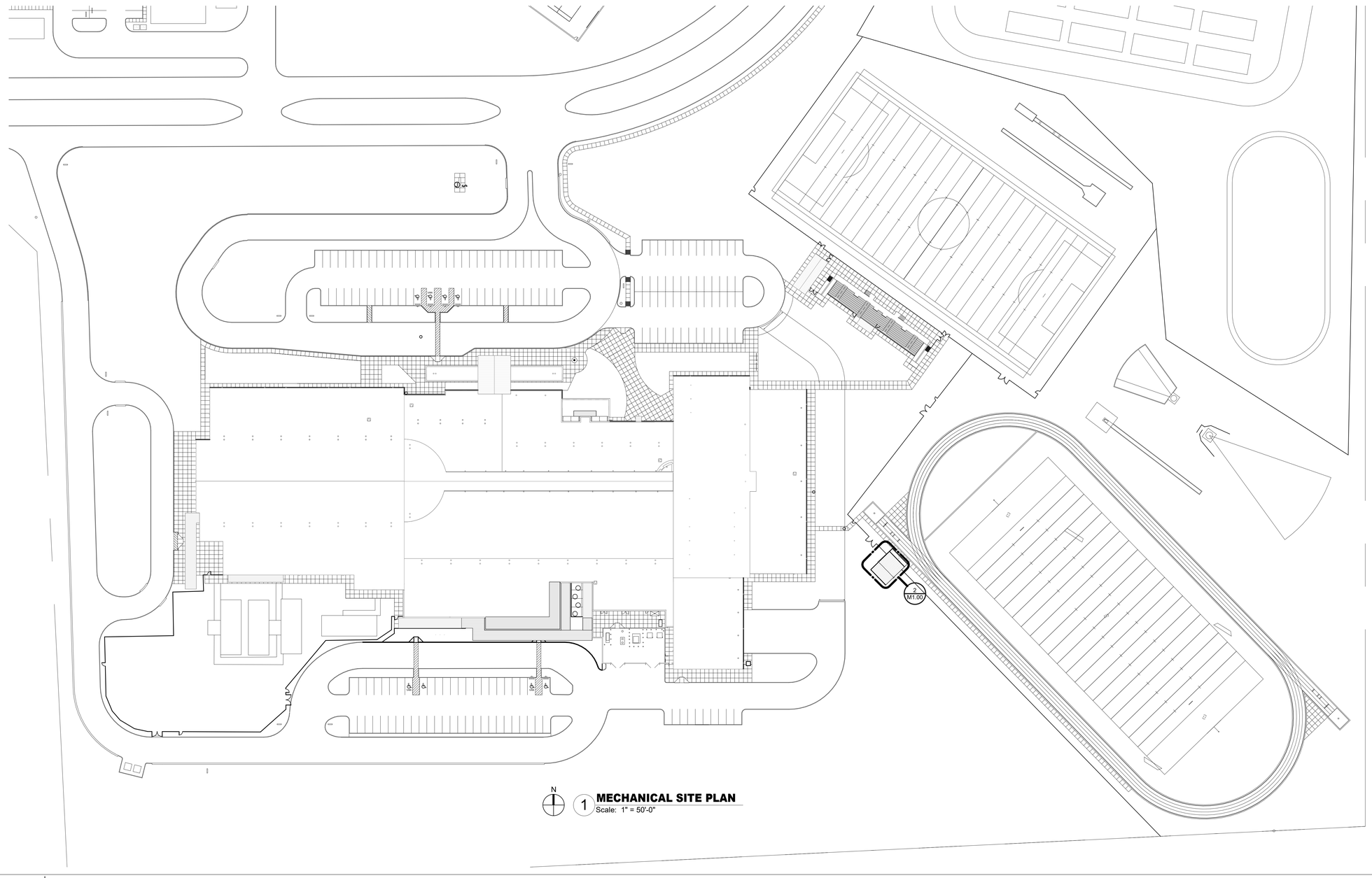
MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. PROVIDE WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER RUSKIN MODEL EME520MD OR APPROVED EQUAL AND MINIMUM FREE AREA AS NOTED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
3. SHEET METAL PLENUM ON REAR OF LOUVER WITH MOTORIZED DAMPER.
4. PROVIDE WITH LINE VOLTAGE HUMIDITY SENSOR.
5. PROVIDE WITH LINE VOLTAGE MOTORIZED DAMPER FOR EXHAUST AND MAKEUP AIR LOUVER.



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1 MECHANICAL SITE PLAN

Scale: 1" = 50'-0"

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Registration: F-4111
Project No: 2024-00209-00

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CONSTRUCTION DOCUMENT

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number:	23073
Date:	26 JANUARY 2025
Drawn By:	WHL / KLO

MECHANICAL SITE PLAN

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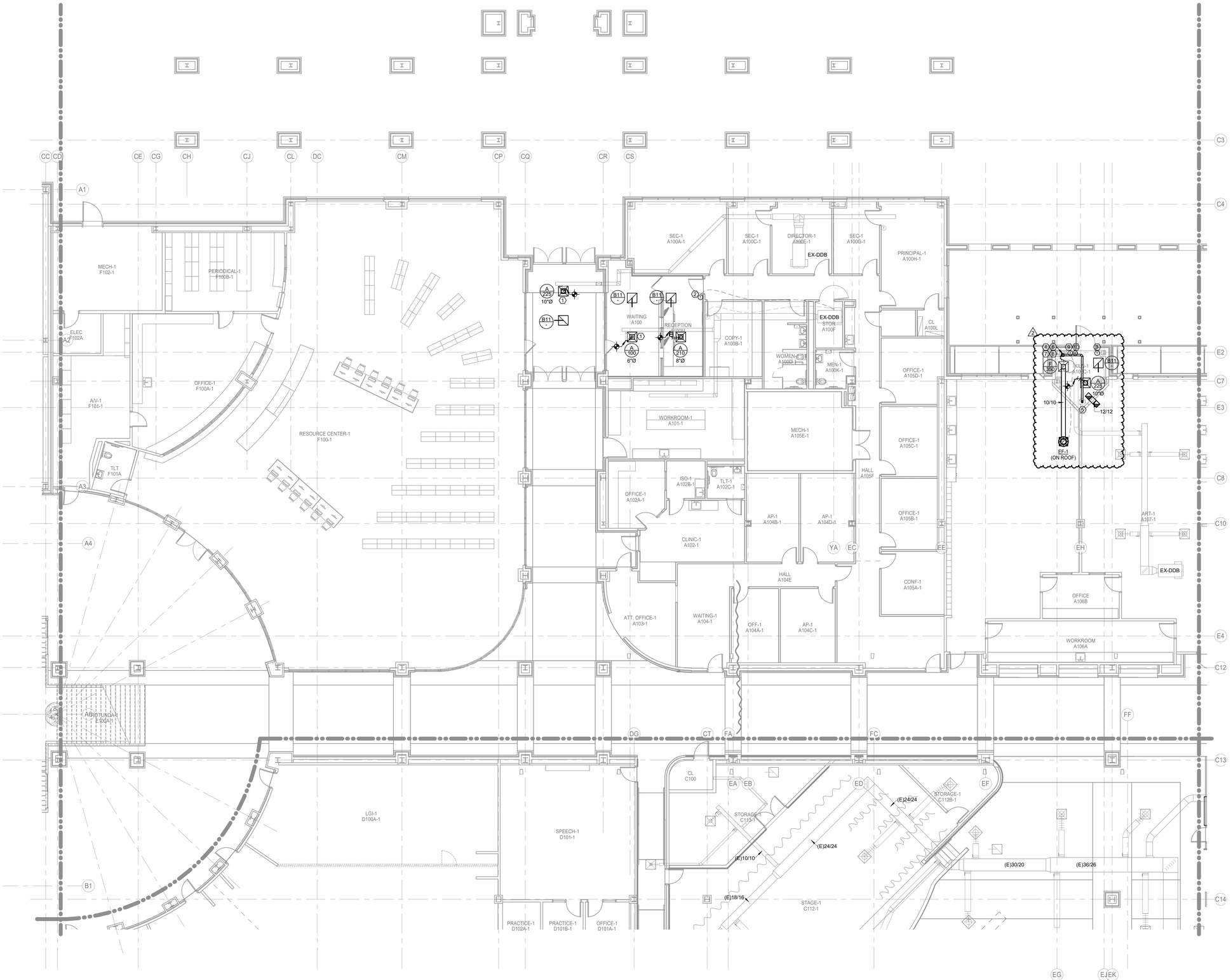

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1 **MECHANICAL FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

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Registration: F-4111
Project No: 2024-00209-00

RENOVATIONS	
◆	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

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GENERAL NOTES:

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MECHANICAL KEYED NOTES:

1. PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN LOCATION INDICATED.
2. AVERAGING TEMPERATURE SENSOR FOR DUAL DUCT BOX INDICATED.
3. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
4. ROUTE KILN ALUMINUM DUCTWORK DOWN ALONG WALL TO 24" A.F.F FOR CONNECTION TO KILN FUME FAN. REFER TO DETAIL.
5. ROUTE FAN DISCHARGE DUCT AS SHOWN UP TO GOOSENECK ON ROOF. REUSE EXISTING ROOF OPENING. REFER TO GOOSENECK DETAIL.
6. MOUNT KILN FAN TO WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. KILN VENTILATION SHALL BE ENVIROVENT 2 BY SKUTT. PROVIDE KILN WITH ENVIROLINK CONTROLLER AND ALL WIRES WITH SUFFICIENT LENGTH TO MAKE ALL CONNECTIONS AS PER MANUFACTURER RECOMMENDATIONS.
8. PROVIDE ALUMINUM FLEX TO CONNECT KILN ALUMINUM DUCT WITH KILN FAN.
9. THERMOSTAT SHALL BE SET TO 80°F (ADJUSTABLE).
10. PROVIDE HEAT DETECTOR, INTERLOCK WITH KILN TO SHUT OFF POWER SOURCE AT 135°F (ADJUSTABLE) MOUNT HEAT DETECTOR ON CEILING AT LOCATION SHOWN.

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CONSTRUCTION DOCUMENT

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2024 SMITH & SPILLANE MS RENOVATIONS

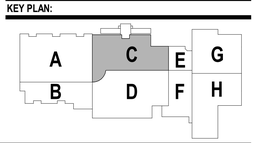
SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



MECHANICAL FIRST FLOOR PLAN - AREA 'C'

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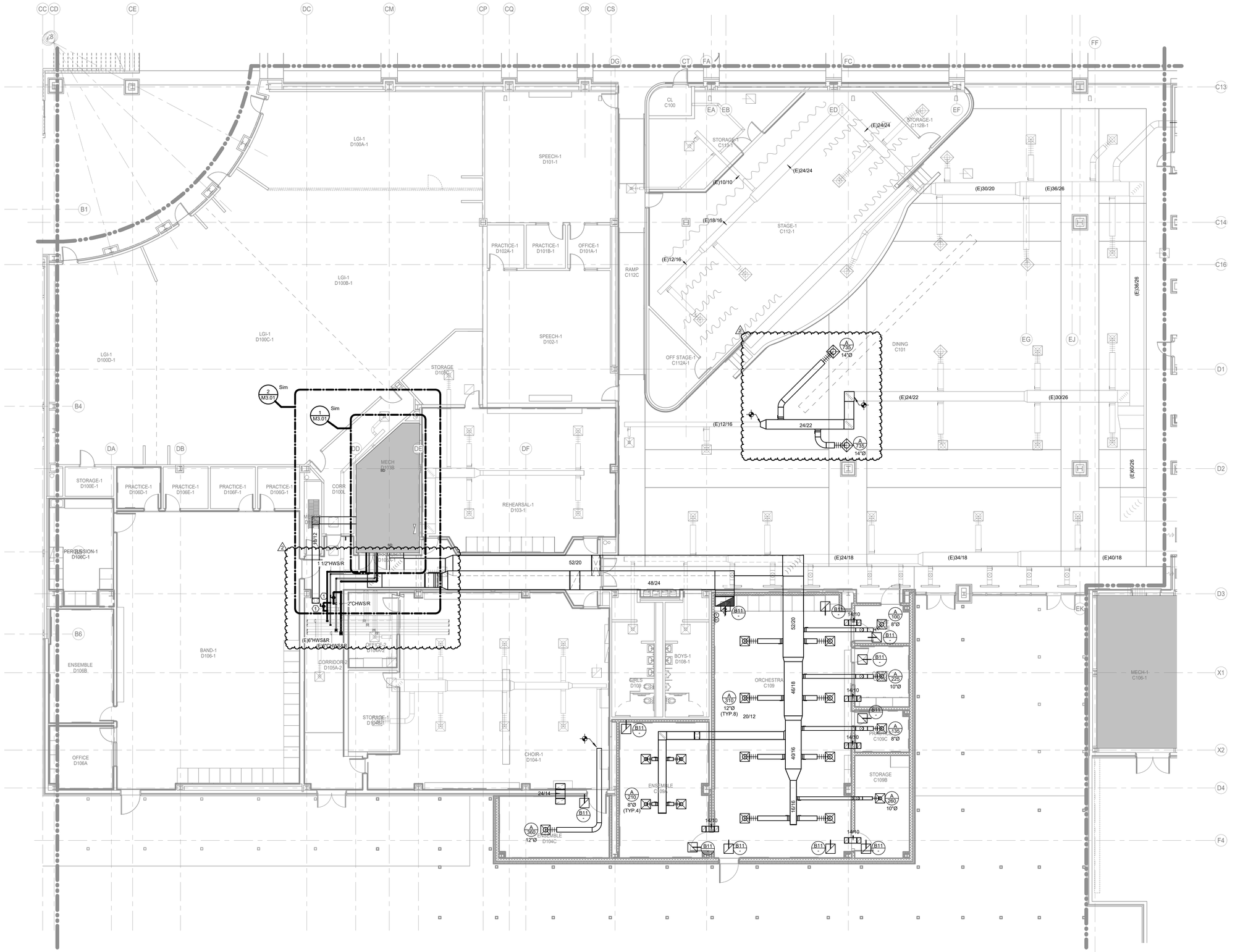

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1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA D

Scale: 1/8" = 1'-0"

RENOVATIONS	
◆	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭	ITEM TO BE REMOVED

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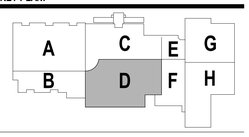
MECHANICAL KEYED NOTES:

1. 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.

KEY PLAN:



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	Revisions / Submission	

Project Number: 23073
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Drawn By: WHL / KLO

MECHANICAL FIRST FLOOR PLAN - AREA 'D'

M2.04

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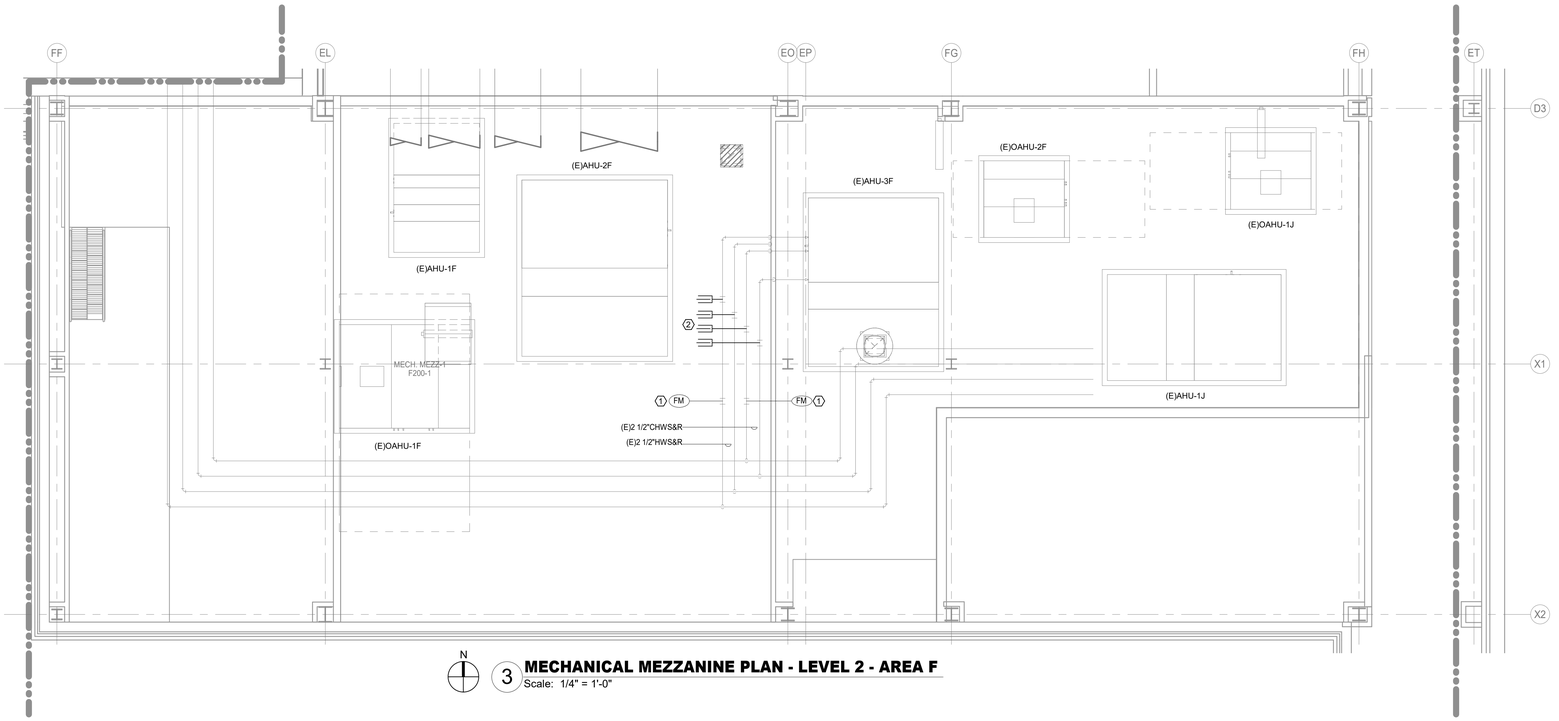

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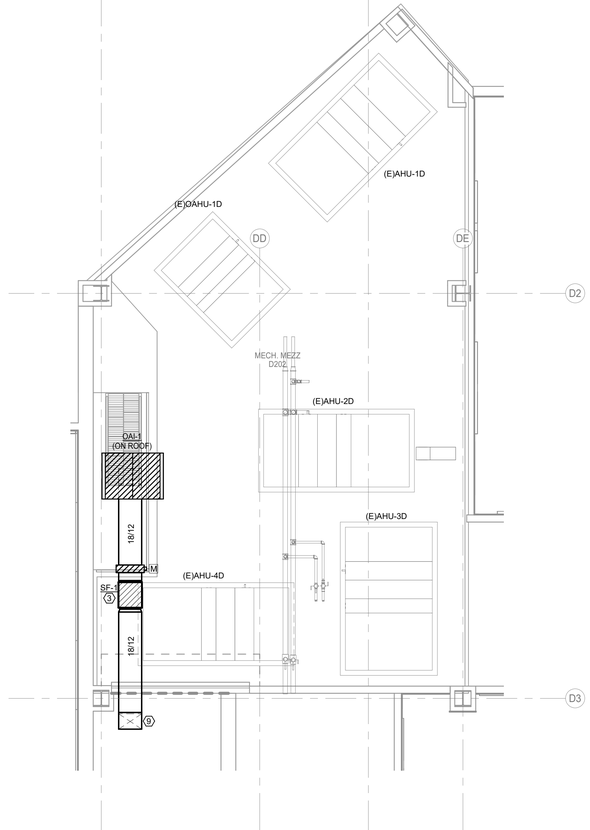
3 MECHANICAL MEZZANINE PLAN - LEVEL 2 - AREA F

Scale: 1/4" = 1'-0"



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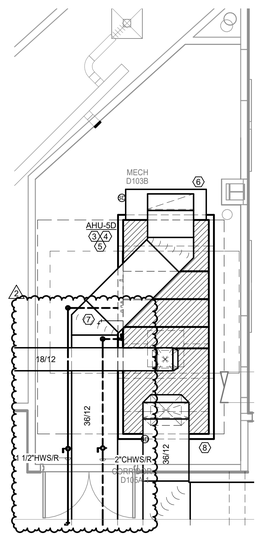
2 MECHANICAL ENLARGED PLAN - LEVEL 2 - MECH MEZZ

Scale: 1/4" = 1'-0"



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1 MECHANICAL ENLARGED PLAN - LEVEL 1 - MECH D103B

Scale: 1/4" = 1'-0"

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

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CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

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 DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

MECHANICAL KEYED NOTES:

1. PROVIDE AND INSTALL FLOW METER IN CHILLED/HOT WATER SUPPLY PIPING TO BE USED IN CALCULATING AND LOGGING THE KITCHEN BTUH USAGE THROUGH THE BMCS. METER SHALL BE INSTALLED PER MANUFACTURERS REQUIREMENTS. REINSULATE PIPING AFTER INSTALLATION IS COMPLETE.
2. PROVIDE AND INSTALL CHILLED/HOT WATER SUPPLY AND RETURN TEMPERATURE SENSORS TO BE USED IN CALCULATING AND LOGGING THE KITCHEN BTUH USAGE THROUGH THE BMCS. REINSULATE PIPING AFTER INSTALLATION IS COMPLETE.
3. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
4. VERIFY SERVICE CLEARANCE FOR AIR FILTER REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
5. VERIFY SERVICE CLEARANCE FOR FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
6. SHEET METAL PLENUM. FULL SIZE OF UNIT RETURN AIR OPENING, LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS SHOWN.
7. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO NEW FLOOR DRAIN LOCATED IN MECHANICAL ROOM.
8. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
9. ROUTE DUCTWORK DOWN TO LEVEL 1 PLENUM SPACE AND TO AHU-5D(A) IN MECHANICAL ROOM.

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

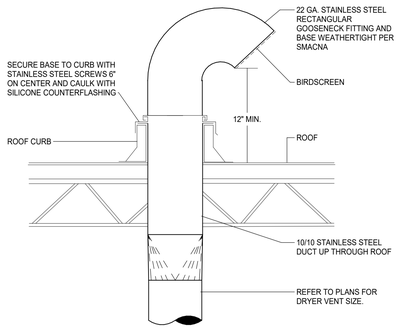
Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL ENLARGED FLOOR PLAN

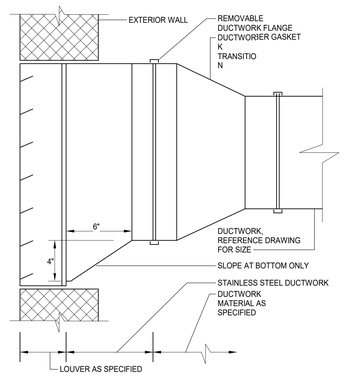
M3.01

____ of ____

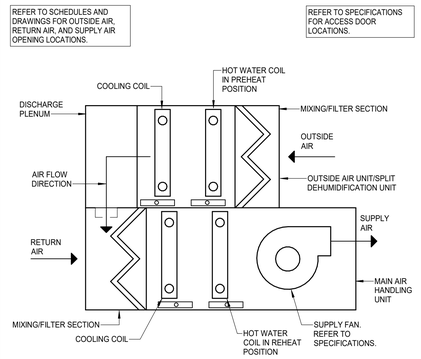
Autodesk Docs://23072_CFISD_Phase_6_/22/CFISD-SMITH MS_MEPT_R22.rvt



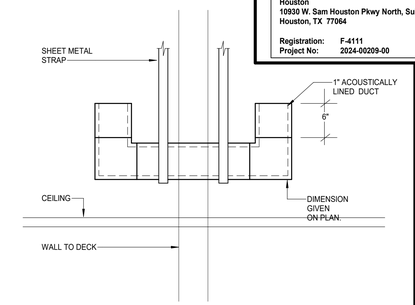
15 VENT THROUGH ROOF
SCALE: NONE



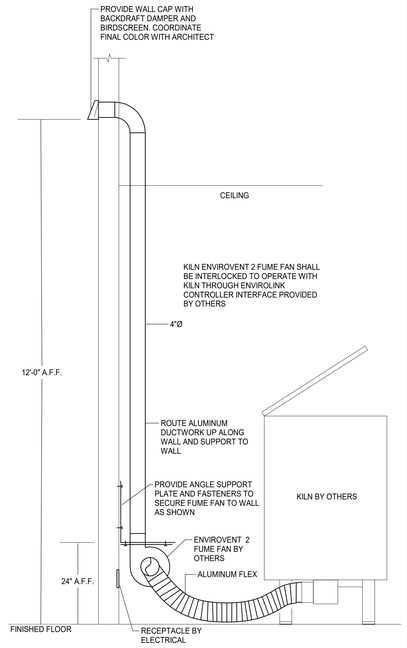
12 DUCTWORK AT LOUVER
SCALE: NONE



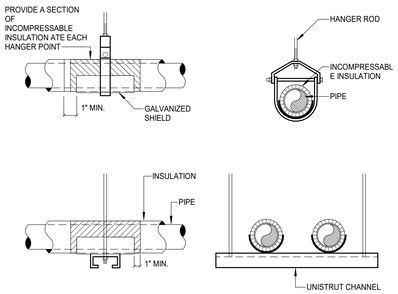
8 AHU WITH SPLIT DEHUMIDIFICATION UNIT DIAGRAM
SCALE: NONE



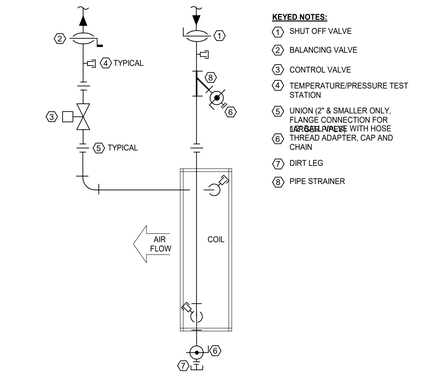
4 TRANSFER AIR DUCT
SCALE: NONE



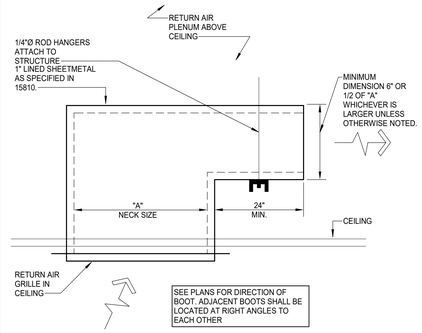
14 KILN EXHAUST DETAIL
SCALE: NONE



11 PIPE HANGERS
SCALE: NONE

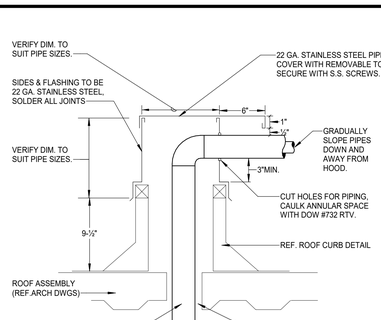


7 PIPING AT AHU HOT WATER COIL 2-WAY
SCALE: NONE

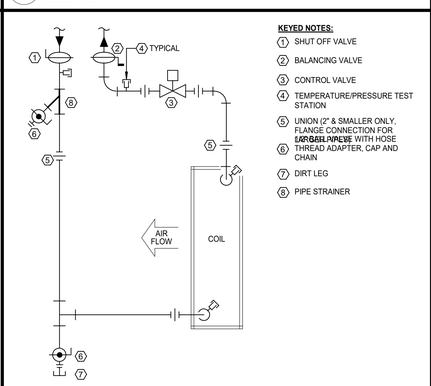


3 RETURN AIR GRILLE BOOT
SCALE: NONE

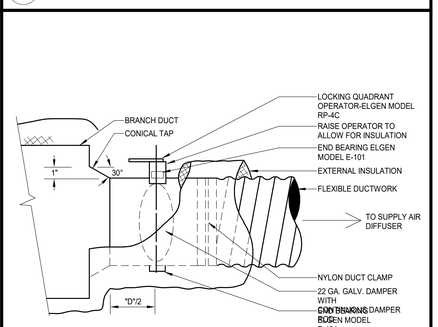
13 WIND RESISTANT EQUIPMENT SUPPORT
SCALE: NONE



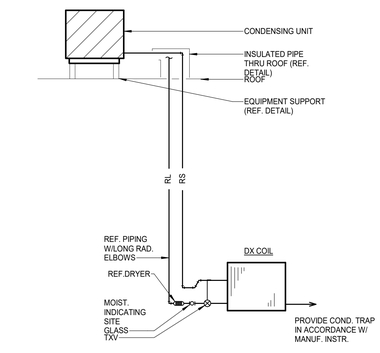
10 INSULATED PIPE THRU ROOF
SCALE: NONE



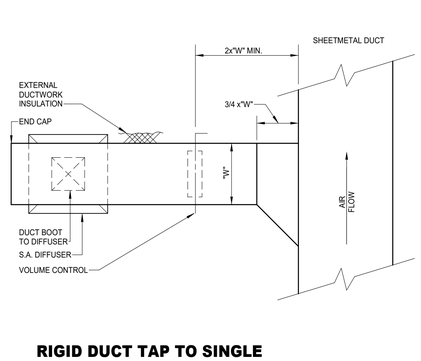
6 PIPING AT AHU CHILLED WATER COIL
SCALE: NONE



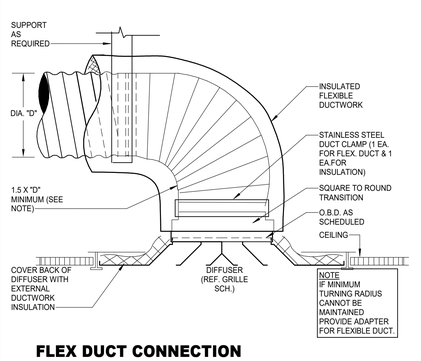
2 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



9 REFRIGERANT PIPING DIAGRAM
SCALE: NONE



RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
SCALE: NONE



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
SCALE: NONE

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MECHANICAL DETAILS

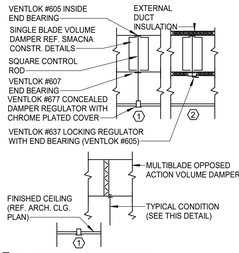
M4.01

____ of ____

SYMBOL LEGEND

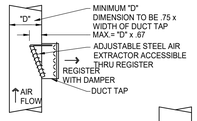
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(#)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
	SMOKE DAMPER (VERTICAL)
	SMOKE DAMPER (HORIZONTAL)
	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
	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
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
	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
	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE
SUBSCRIPTS AND ABREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK CONSTRUCTION DETAILS



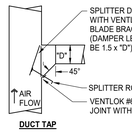
1 **DAMPER ABOVE INACCESSIBLE CEILING**

2 **DAMPER ABOVE LIFT-OUT CEILING**

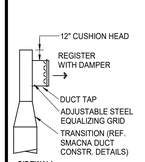


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN = 4")

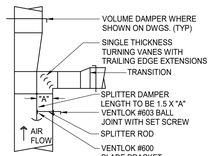
EXTRACTOR SIDEWALL REGISTER



DUCT TAP

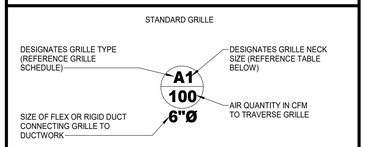


SIDEWALL REGISTER AT END OF DUCT

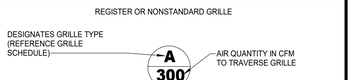


SPLITTER

GRILLE SIZING SCHEDULE



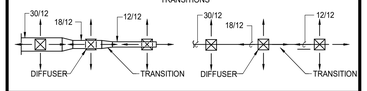
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

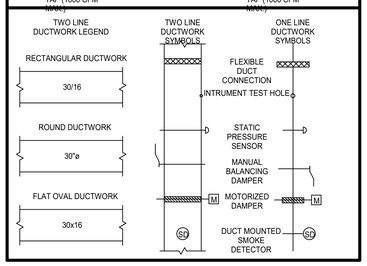


ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

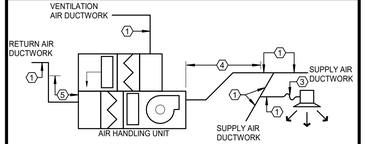
GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTWORK SYMBOLS LEGEND





DUCT LINER AND INSULATION



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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Project No: 2024-00209-00

AIR HANDLING UNIT

MARK	FAN SUPPLY AIR CFM	FAN OUTSIDE AIR CFM	FAN EXT. STATIC PRESSURE (IN. W.C)	FAN HORSE POWER	CURRENT CHARAC. V	PH	F	COOLING AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING WATER ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	HEATING ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	WATER ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	PIPE SIZE TO COIL (IN.) CHILLED WATER	HOT WATER	REMARKS
AHU-5D	4,040	1,250	1.25	5.0	480	3	60	75.0	62.5	54.5	54.0	45	15.4	15.0	67.5	119,988	180.0	12.1	10.0	1 1/2"	1 1/4"	1,3,4,5,6,7,9,10,11
AHU-5D(A)	1,250	1,250						98.0	79.0	54.5	54.0	45	17.1	15.0	27.0	37,125	180.0	3.8	10.0	1 1/2"	1"	2,3,4,6,7,8,10,12

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 HORIZONTAL UNIT.
4. PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.
5. PROVIDE TOP DISCHARGE.
6. PROVIDE TWO-WAY COOLING CONTROL VALVES.
7. PROVIDE TWO-WAY HEATING CONTROL VALVES.
8. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
9. PROVIDE HOT WATER COIL IN REHEAT POSITION.
10. PROVIDE UNIT WITH ANGLED FILTER SECTION.
11. SPLIT DEHUMIDIFICATION UNIT TO HAVE AN OAU SECTION MOUNTED ON TOP OF AHU-5D.
12. SECTION 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.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C)	MAX RPM	HORSE POWER	CURRENT CHAR. V	P	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	KILN	350	0.25	1800	0.25	120		60	T-STAT	-	ROOF MOUNTED	DIRECT	COOK	ACED	1,2,3,7
EF-SB-1	STOR BLDNG	1250	0.50	1800	0.5	120	1	60	H-STAT	-	INLINE	BELT	COOK	SQN	(1,2,3,4,5,6)
SF-1	MECH MEZZ	1250	0.75	1800	0.75	480	3	60	-	AHU-5D	INLINE	BELT	COOK	SQN	(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 FAN SPEED CONTROLLER.
4. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
5. PROVIDE WITH LINE VOLTAGE MOTORIZED DAMPER FOR EXHAUST AND MAKEUP AIR LOUVER.
6. PROVIDE WITH LINE VOLTAGE HUMIDITY SENSOR.
7. PROVIDE WITH ROOF CURB AND BIRD SCREEN.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION/ MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TDC	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" CONE FACE. ROUND NECK.
B	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" FACE. LOUVERED FACE
C	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TDC	SURFACE MOUNT CEILING FRAME STYLE WITH 22"X22" OR 12"X12" CONE FACE. ROUND NECK.
D	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" FACE.
ER	RETURN AIR	-	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. REUSE AND BALANCE TO INDICATED CFM.
ES	SUPPLY AIR	DIFFUSER/ GRILLE	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. REUSE AND BALANCE TO INDICATED CFM.
F	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	350RL	SURFACE MOUNT CEILING FRAME STYLE WITH 22"X22" OR 12"X12" FACE. PERFERATED FACE.
G	GRILLE	EXHAUST AIR	-	STEEL	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

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

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	FAN HORSE POWER (WATTS)	FAN CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	REMARKS
DMS-1	375	40.0	208	1	60	75.0	62.5	18,000	14,400	15.0/-	(1,2,3,4,6)
DMS-2	900	74.0	208	1	60	75.0	62.5	34,200	27,360	15.0/-	(1,2,3,4,5,6)
DMS-3	375	40.0	208	1	60	75.0	62.5	18,000	14,400	15.0/-	(1,2,3,4,5,6)
DMS-4	375	40.0	208	1	60	75.0	62.5	18,000	14,400	15.0/-	(1,2,3,4,6)

GENERAL NOTES:
1. 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. 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 WITH LITTLE GIANT CONDENSATE PUMP MODEL VCMA-20ULS-C-PRO, 1/30 HP, 115V/1PH/60HZ.
6. WALL MOUNTED UNIT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	18,000	95	15.0/-	208		60	DMS-1	(1,2,3)
DMSCU-2	34,200	95	15.0/-	208		60	DMS-2	(1,2,3)
DMSCU-3	18,000	95	15.0/-	208		60	DMS-3	(1,2,3)
DMSCU-4	18,000	95	15.0/-	208		60	DMS-3	(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.

RELIEF VENT & O.A. INTAKE

MARK	CFM	MAX. S.P. (IN.WC.)	MIN. THROAT AREA	MODEL	SERVES	REMARKS
OAI-1	1250	0.25	2.5 SF	GR	AHU-3D	(1,2)

REMARKS:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH BIRD SCREEN.

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL SCHEDULES, LEGENDS & DETAILS

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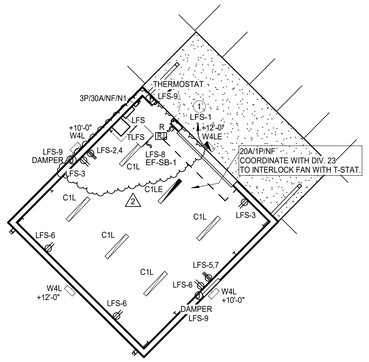

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2 ELECTRICAL FLOOR PLAN - FIELD STORAGE

Scale: 1/8" = 1'-0"

SITE GENERAL NOTES

1. CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES.
2. REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER REQUIREMENTS TO BE PROVIDED BY DIVISION 26.
4. PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.

ELECTRICAL KEYED NOTES

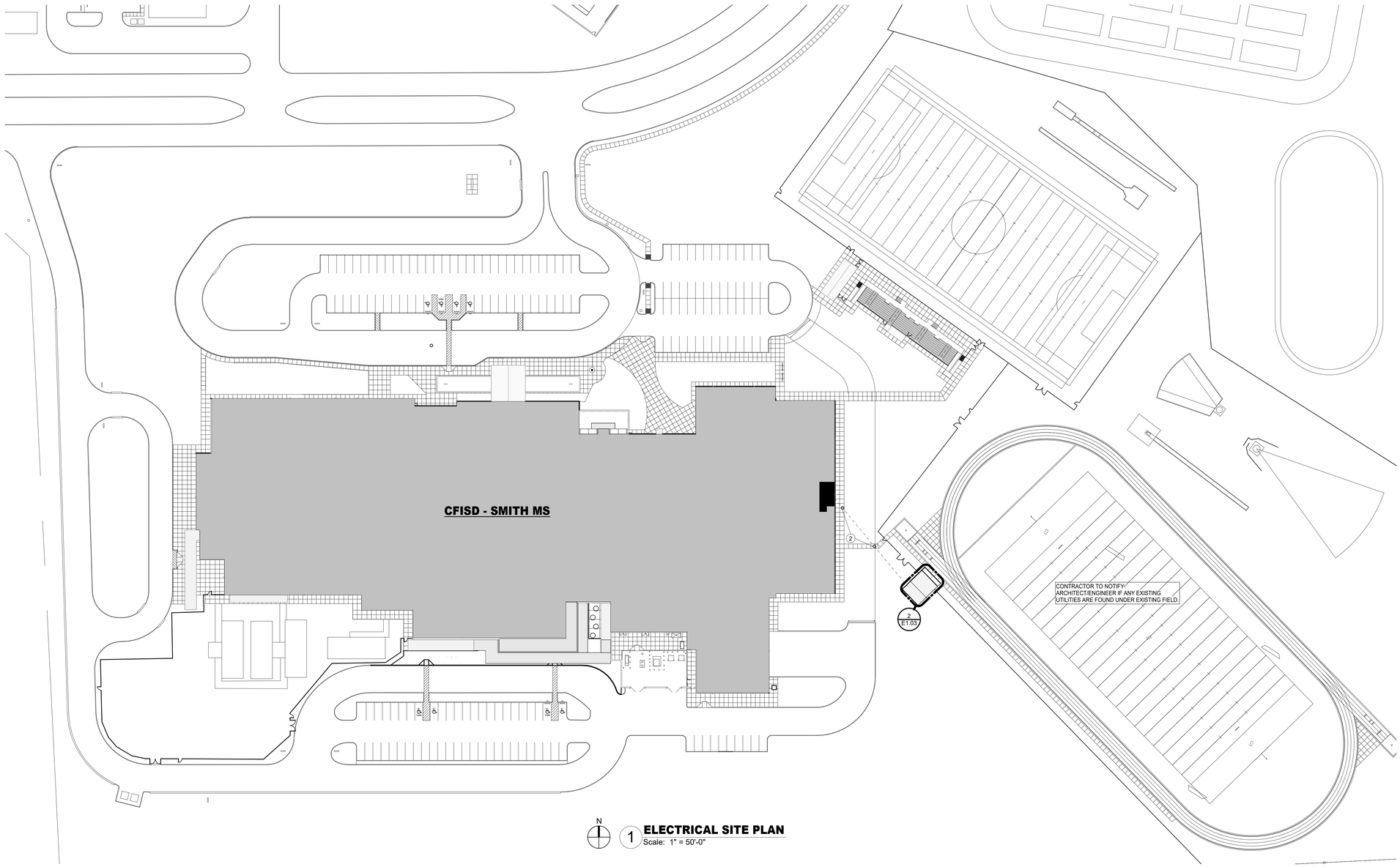
1	CONTROL EXTERIOR LIGHTING WITH PHOTOCELL INTERMATIC #EK4236S OR APPROVED EQUAL. LOCATE PHOTOSENSOR SURFACEMOUNTED ON THE NORTH SIDE OF THE BUILDING. LOCATION IS TO BE APPROVED BY OWNER / ARCHITECT.
2	BORE UNDER CONCRETE PATH AS NECESSARY.

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEY WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.



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1 ELECTRICAL SITE PLAN

Scale: 1" = 50'-0"

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2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL SITE PLAN

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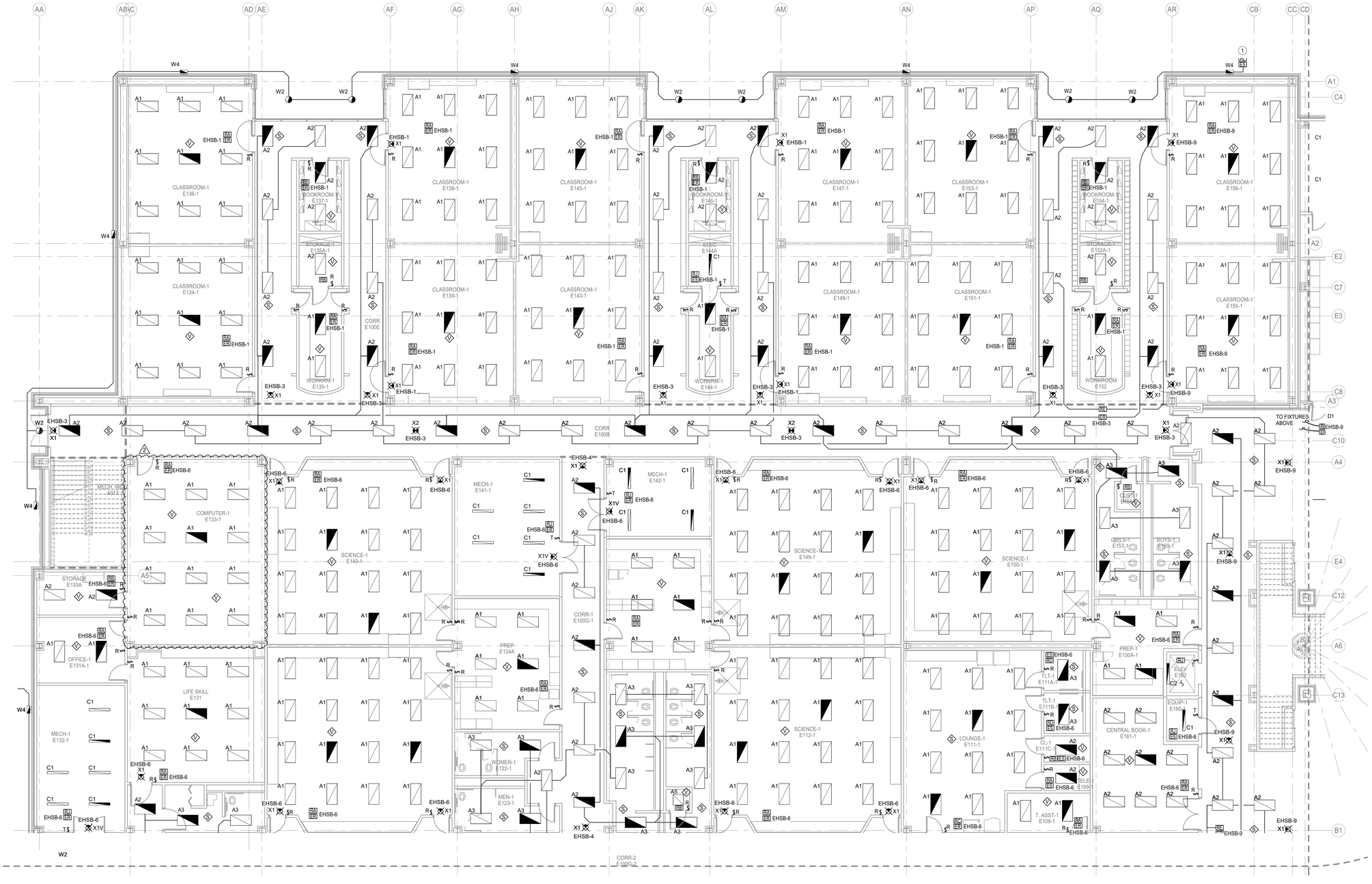
ELECTRICAL KEYED NOTES

1	INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH,(1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD, RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.



LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V, TYPICAL.
2. LOCATION OF NEW / REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE, LENGTH NOT TO EXCEED 6-FEET. "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. 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.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

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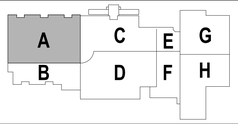
1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA A**
Scale: 1/8" = 1'-0"

KEY PLAN:



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ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'A'

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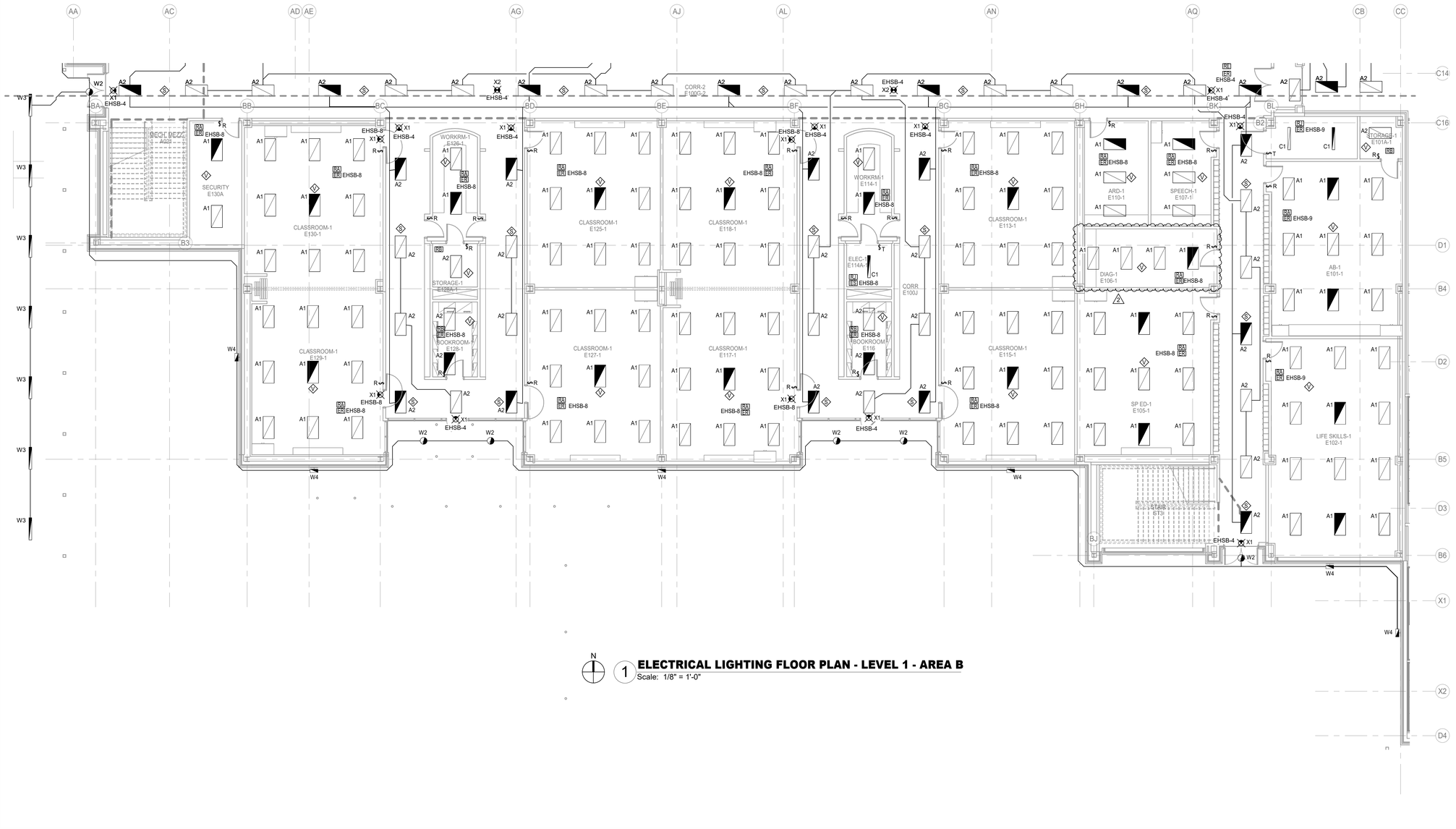

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA B**
Scale: 1/8" = 1'-0"

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

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LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V, TYPICAL.
2. 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 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
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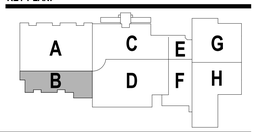
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

KEY PLAN:



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Project No: 2024-00209-00

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'B'

E2.02

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2/12/2025 4:23:43 PM

ELECTRICAL KEYED NOTES

1	PROVIDE WALL MOUNTED OCCUPANCY BASED SENSOR.

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Project No: 2024-00209-00

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V. TYPICAL.
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REFER TO A/V, TE, AND TL DRAWINGS AND SPCIFICATIONS FOR ADDITIONAL POWER AND EQUIPMENT TO BE PROVIDED BY OR INSTALLED BY DIVISION 26.

N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'C'

E2.03

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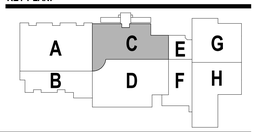
KEY PLAN:



Autodesk Docs://23072_CFSID_Phase_6_/22/CFISD-SMITH MS_MEPT_R22.rvt

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Registration: F-4111
Project No: 2024-00209-00

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

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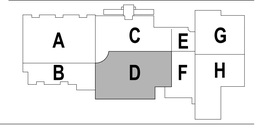
1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA D**
Scale: 1/8" = 1'-0"

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

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CFISD PROJECT NO: 24-02-5751-R-RFP

2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'D'

E2.04

____ of ____

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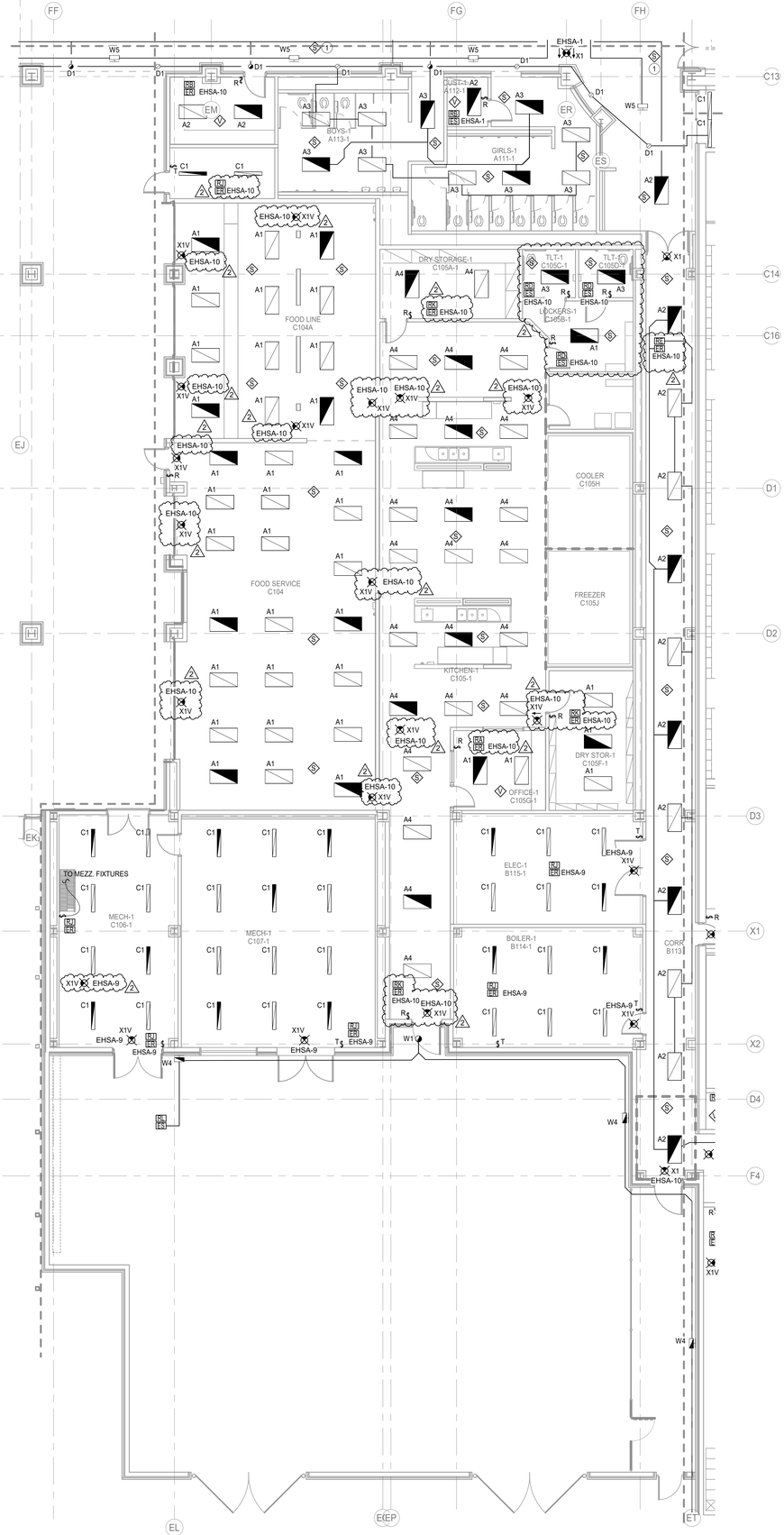
ELECTRICAL KEYED NOTES

1	PROVIDE WALL MOUNTED OCCUPANCY BASED SENSOR.



N

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

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Registration: F-4111
Project No: 2024-00209-00

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

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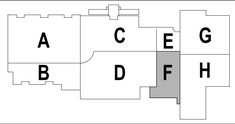
7. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

KEY PLAN:



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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'F'

E2.06

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Autodesk Docs://23072_CFSID_Phase_6_r22/CFISD-SMITH MS_MEPT_R22.rvt

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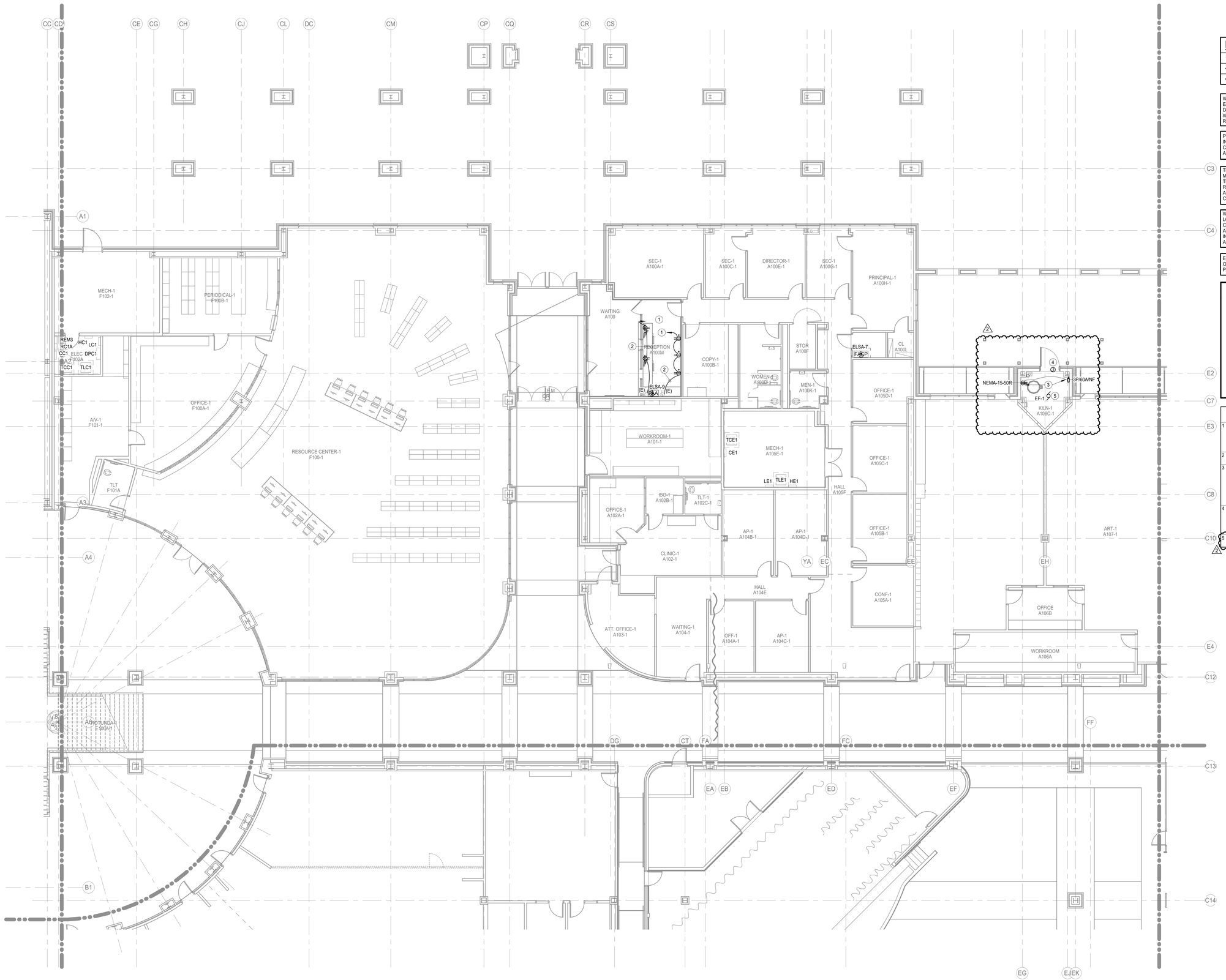

1 **ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

Salas O'Brien
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Houston, TX 77064

Registration: F-4111
Project No: 2024-00209-00

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

WHERE ANY 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 GYMPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

TEMOPORARILY DISCONNECT AND REMOVE ALL CEILING / WALL MOUNTED ELECTRICAL AND FIRE ALARM DEVICES FOR AREAS THAT REQUIRE CEILING / WALL REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANIAL, TECHNOLOGY, FIRE ALARM, SPRINKLERS AND PLUMBING SCOPE OF WORK, AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

WHERE ANY EXISTING JUNCTION BOX AN/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.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

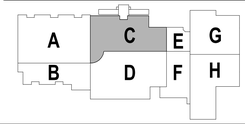
POWER GENERAL NOTES

1. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMMUNICATION PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.
2. 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.
3. 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.

ELECTRICAL KEYED NOTES

1	PROVIDE NEW RECEPTACLES AS SHOWN AND CONNECT TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION, EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120 V.
2	DO NOT USE FLEXIBLE CONDUIT IN RECEPTION WALL FOR CONNECTION OF NEW RECEPTACLES. TYPICAL.
3	PROVIDE POWER TO NEW KILN RECEPTACLE AND DISCONNECT FROM EXISTING POWER IN THIS SPACE REMAINING AFTER DEMOLITION. EXTEND CONDUIT AND WIRING OF EXISTING SIZE TO NEW DEVICE LOCATION(S). COORDINATE EXACT KILN PLUG CONFIGURATION WITH EXISTING EQUIPMENT AND EXACT RECEPTACLE AND DISCONNECT MOUNTING LOCATION WITH ARCHITECT.
4	PROVIDE JUNCTION BOX FOR CARD READER. INSTALL 1" CONDUIT WITH PULL WIRE TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN.
5	PROVIDE POWER TO NEW EF FROM EXISTING 208V PANEL "LE1". PROVIDE NEW 20A/1P BREAKER WITH #12 WIRE.

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL POWER FIRST FLOOR PLAN - AREA 'C'

E3.03

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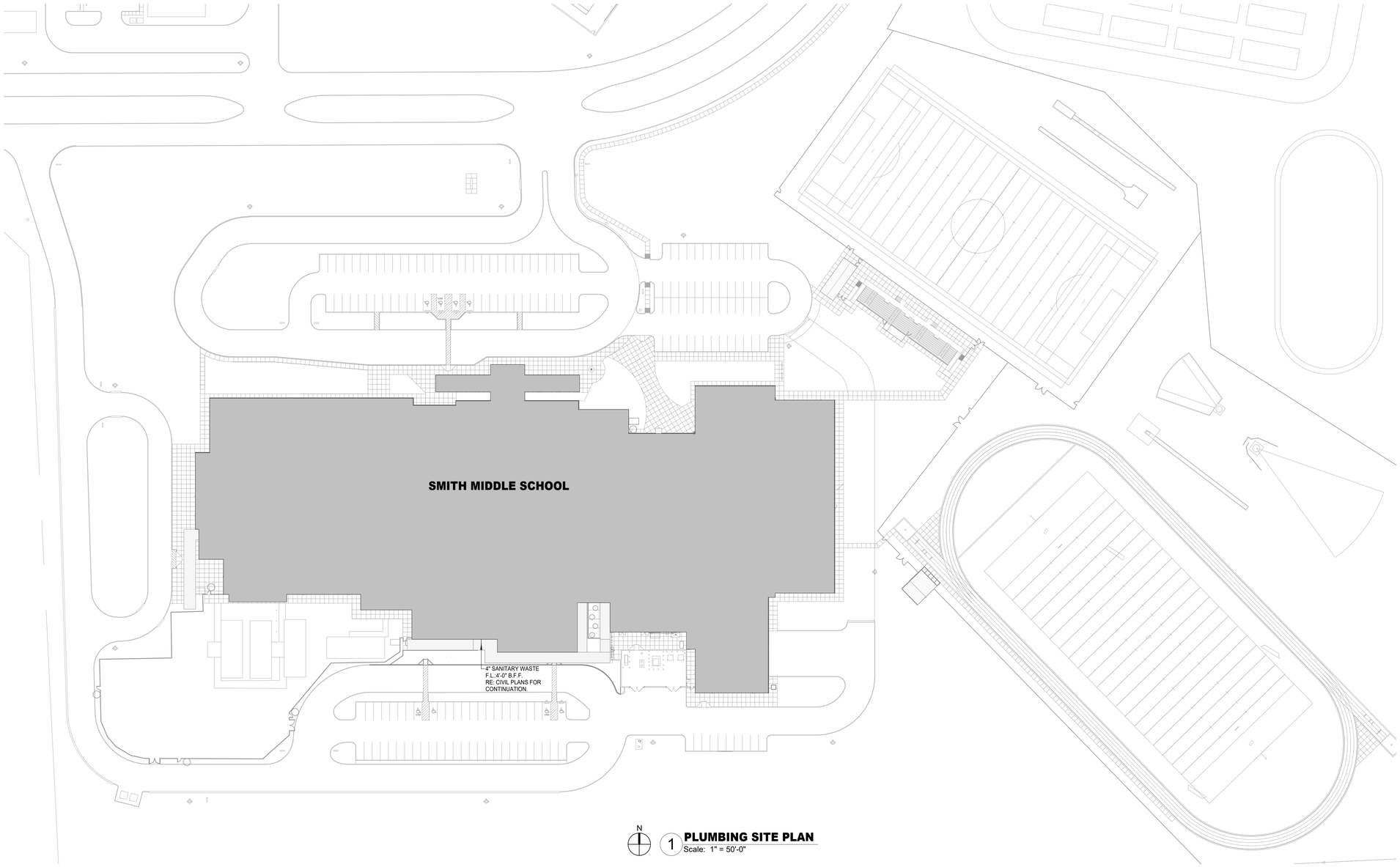
Autodesk Docs://23072_CFSID_Phase_6_r22/CFISD-SMITH MS_MEPT_R22.rvt

PLUMBING GENERAL NOTES

1. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 4" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.
2. DO NOT SCALE THE PLUMBING DRAWINGS. REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
3. REFER TO CIVIL DRAWINGS FOR UTILITY STUB CONTINUATIONS. THIS CONTRACTOR TO MAKE CONNECTIONS AS REQUIRED FROM STUB LOCATIONS TO SITE UTILITIES.
4. INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF BUILDING SANITARY AND STORM OUTFALLS WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO SITE UTILITIES.
5. REFER TO LATEST CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATIONS.
6. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFYAT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.



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1 **PLUMBING SITE PLAN**
Scale: 1" = 50'-0"

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CONSTRUCTION DOCUMENT

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02-11-2025

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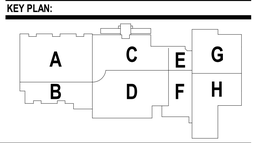

PLUMBING SITE PLAN

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TECHNOLOGY LEGEND - 27 10 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*#	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

AUDIO/VIDEO LEGEND - 27 41 16.10

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP ◁	CEILING MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
VD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND - 27 41 16.20

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS#	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
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2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND - 27 50 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNT EXTERIOR INTERCOM SPEAKER.	+10' AFF UNO	CONTRACTOR PROVIDED	
S5	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S6	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE.	CEILING	CONTRACTOR PROVIDED	
S7	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER	CEILING	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER, '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
LMB ▼	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

ACCESS CONTROL LEGEND - 28 10 00 & 28 10 00.05

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *DEFAULT INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM. DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
SS	NETWORK SIREN STROBE	CEILING MOUNTED UNO		NOTE #4

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND - 28 20 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
VRS	VIDEO RECORDING SERVER			
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5
	SYMBOL INDICATED THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND - 28 31 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MC	CEILING MOUNTED MOTION DETECTOR	CEILING		
MC	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

FIRE ALARM - 28 46 00

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL
RPS	EXISTING FIRE ALARM SYSTEM REMOTE POWER SUPPLIES. LOCATIONS DETERMINED FROM AS BUILD DRAWINGS. CONTRACTOR TO FIELD VERIFY.

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WM'	DEVICE IS TO BE WALL MOUNTED.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

TECH DEMO PLAN GENERAL NOTES

A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.

B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO
1) FIRE ALARM
2) INTERCOM
3) STRUCTURED CABLING
4) INTRUSION DETECTION
5) ACCESS CONTROL
6) AUDIO VIDEO
7) VIDEO SURVEILLANCE
TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
1) FIRE ALARM DEVICES
2) INTERCOM DEVICES
3) WIRELESS ACCESS POINTS
4) TELEPHONES
5) VIDEO SURVEILLANCE CAMERAS
6) INTRUSION DETECTION DEVICES
7) ACCESS CONTROL DEVICES
8) VIDEO PROJECTION DEVICES
9) VIDEO DISPLAY DEVICES
ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.

D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES; SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

F ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITH IN ANY DEVICES; SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

G ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

H ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.

I REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.

J TOPCAT LIGHTSPEED LOCAL SOUND SPEAKERS SHALL BE BAGGED AND SUSPENDED IN THE CEILING DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO NOT VOID THE WARRANTY.

TOPCAT LIGHTSPEED SPEAKER, BASE STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM ANMEAND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM.

K CONTRACTOR TO COORDINATE WITH CFISD TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDER IN ORDER TO PREVENT VOID OF WARRANTY.

L CONTRACTOR SHALL FIELD VERIFY ALL SECONDARY CLOCK LOCATIONS. REMOVE ALL SECONDARY CLOCKS. PROVIDE NEW CLOCKS IN RECEPTION, CAFETERIA, LIBRARY, GYMS AND CLINIC IN THE SAME LOCATIONS. RETURN ALL OTHER SECONDARY CLOCKS TO OWNER. HEAD END MASTER CLOCK IS TO BE REPLACED. CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PATCH AND PAINT INSTRUCTIONS.

M ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH. PATCH WALL TO MATCH EXISTING.

N DEMOLISHED WORKSTATION OUTLETS THAT ONLY CONTAIN VOICE SHALL HAVE CABLING DEMOLISHED AND RECIEVE A NEW CONTRACTOR PROVIDED BLANK FACEPLATE UNLESS NOTED OTHERWISE. THIS SHALL EXCLUDE VOICE OUTLETS BEING USED FOR LIFE SAFTEY PURPOSES.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6/6A STRUCTURED CABLING SYSTEM (SCS)	✓			
AUDIO DISTRIBUTION SYSTEM - SPECIAL SPACE		✓		SEE NOTE 4.
AUDIO DISTRIBUTION SYSTEM - INSTRUCTIONAL SPACE	✓			
FLAT PANEL DISPLAYS	✓			
FLAT PANEL DISPLAY MOUNTS	✓			
INTERACTIVE DISPLAYS	✓			
INTERACTIVE DISPLAY MOUNTS	✓			
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		✓		
→NETWORK SWITCHES	✓			
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT	✓			
→ VOIP TELEPHONES	✓			
→ WIRELESS ACCESS POINTS	✓			
→ UNINTERRUPTIBLE POWER SUPPLIES (UPS)	✓			
RACEWAY: CONDUIT, BACK BOXES, ETC.		✓		SEE NOTE 1.
LOW VOLTAGE: RACEWAY, SLEEVES		✓		SEE NOTE 1.
STRUCTURED CABLING: RACEWAY, SLEEVES	✓			SEE NOTE 5.
ELECTRICAL POWER		✓		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		✓		
INTRUSION DETECTION SYSTEM		✓		
DOOR ACCESS VIDEO INTERCOM SYSTEM		✓		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→VSS SERVERS		✓		
→VSS CAMERAS		✓		
→VSS PROGRAMMING		✓		
→VSS CABLING	✓			SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		✓		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

RESPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.
3. BY DIVISION 11.
4. IF SYSTEM REQUIRES NETWORK SWITCH IT SHALL BE OFOI. CONTRACTOR TO COORDINATE WITH OWNER.
5. CORES AND SLEEVES FOR STRUCTURED CABLING WILL BE OWNER FURNISHED, OWNER INSTALLED. NOT TO BE USED BY ANY OTHER TRADE.

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
1	Addendum 02	02-11-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY NOTES & LEGENDS

T0.00

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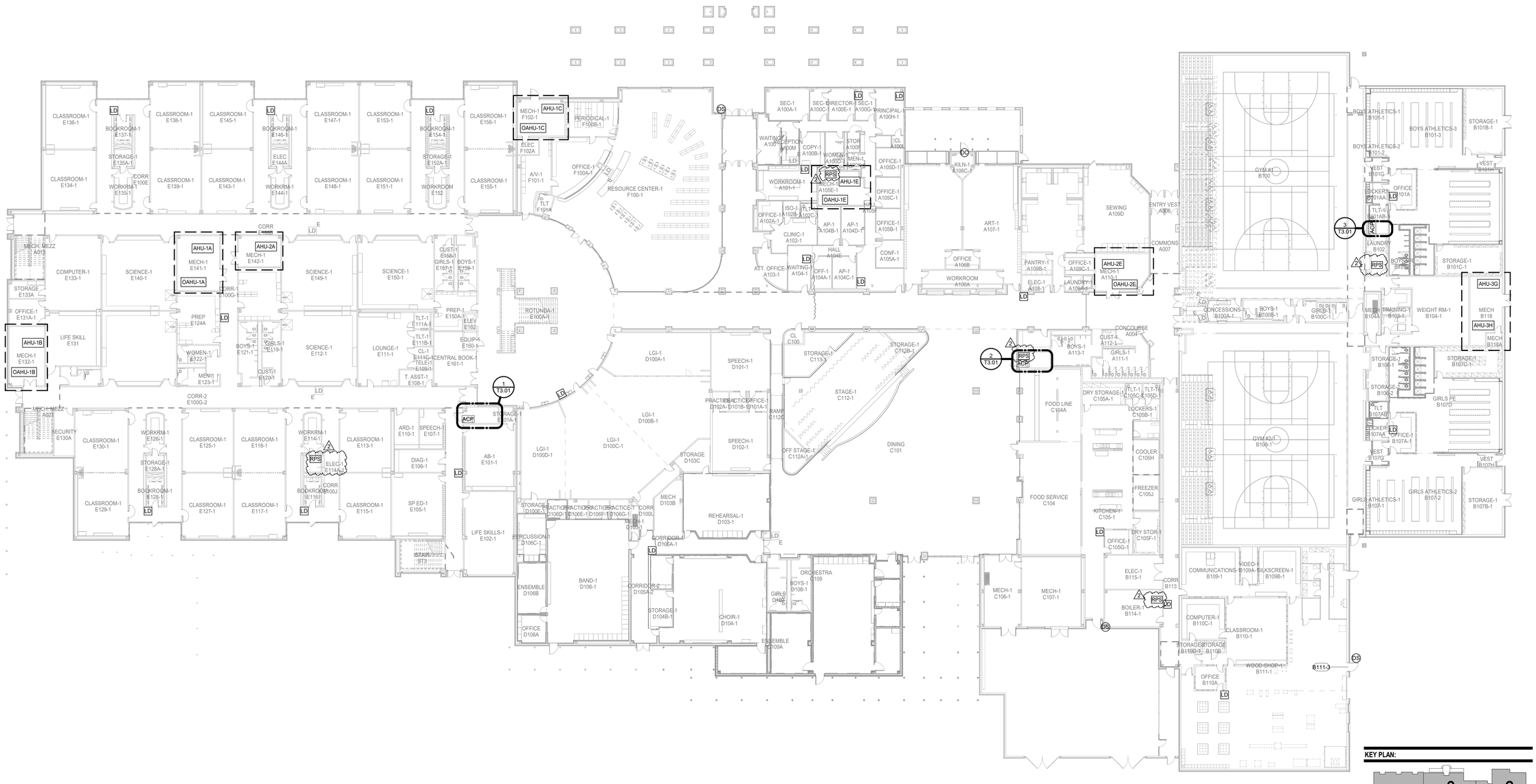

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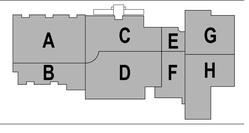
1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1

Scale: 1" = 20'-0"

KEY PLAN:



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CFISD PROJECT NO: 24-02-5751-R-RFP

2.	Addendum 03 — 02-14-25
	Revisions / Submission

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY COMPOSITE 1ST FLOOR PLAN

T1.02

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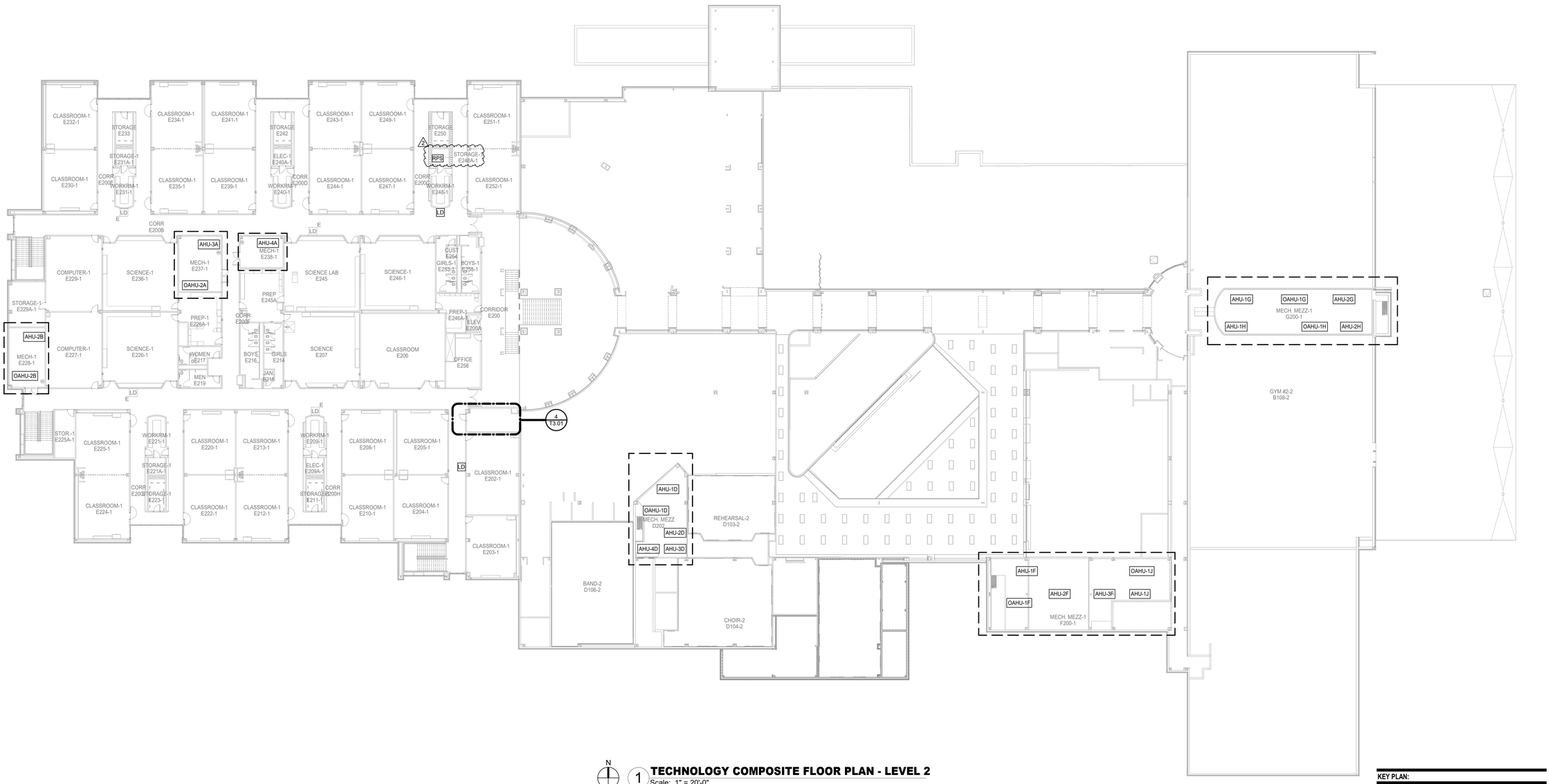
FIRE ALARM

A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.
C	REFERENCE TECHNOLOGY COMPOSITE PLANS FOR EXISTING AHU LOCATIONS. REFERENCE MECHANICAL PLANS FOR ANY NEW AHU LOCATIONS.



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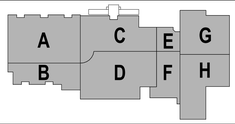
1 **TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 2**
Scale: 1" = 20'-0"

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

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2	Addendum 03 — 02-14-25
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Drawn By: WHL / KLO

TECHNOLOGY COMPOSITE 2ND FLOOR PLAN

T1.03

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FIRE ALARM

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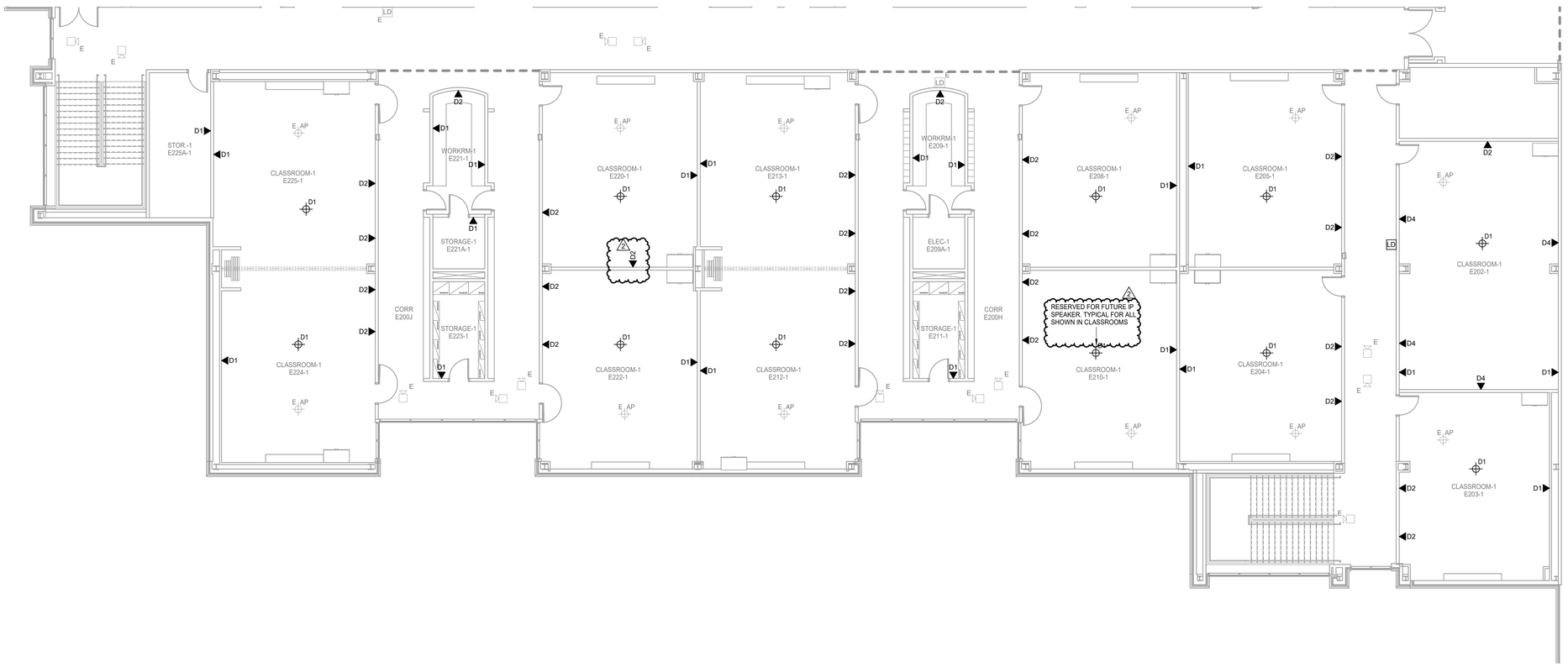
C	REFERENCE TECHNOLOGY COMPOSITE PLANS FOR EXISTING AHU LOCATIONS. REFERENCE MECHANICAL PLANS FOR ANY NEW AHU LOCATIONS.

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. NEW WIRING SHALL BE HOME RUN.
G	NEW DATA CABLING IN EXISTING CLASSROOMS SHALL REUSE EXISTING DATA CABLING RACEWAY AND BACKBOXES. CONTRACTOR TO PROVIDE AND INSTALL NEW FACEPLATES.
H	DATA CABLING TO MECHANICAL ROOMS SHALL BE REPLACED ONE TO ONE. CONTRACTOR TO REUSE EXISTING RACEWAY AND BACKBOXES. PROVIDE AND INSTALL NEW FACEPLATES.



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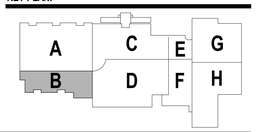
1 **TECHNOLOGY FLOOR PLAN - LEVEL 2 - AREA B**
Scale: 1/8" = 1'-0"

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
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Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY SECOND FLOOR PLAN - AREA 'B'

T2.11

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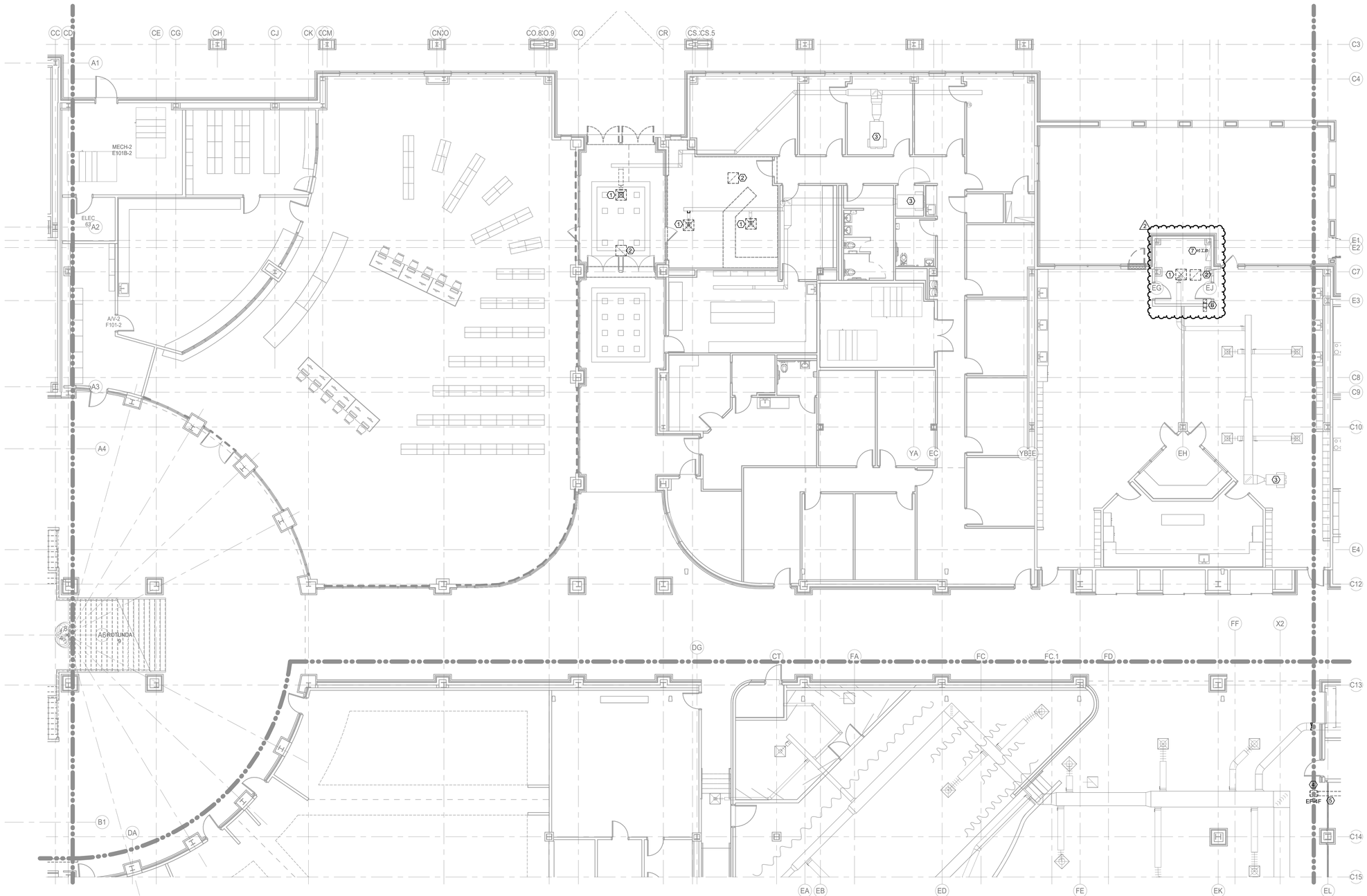


1 **MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

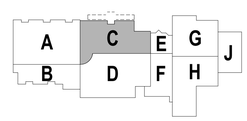
GENERAL NOTES:

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED ROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, FANS, CONDENSING UNITS, BMCS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES.
2. 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.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

DEMOLITION KEYED NOTES

1. REMOVE EXISTING SUPPLY AIR GRILLE. EXISTING DUCTWORK SHALL REMAIN AND BE REUSED. MAINTAIN EXISTING BALANCING DAMPER IN EXISTING LOCATION.
2. REMOVE EXISTING RETURN AIR DEVICE.
3. EXISTING DUAL DUCT BOX TO REMAIN.
4. REMOVE EXISTING EXHAUST FAN ASSOCIATED DUCTWORK, CONTROLS AND ELECTRICAL CONNECTIONS.
5. SEE 1/M0.06 FOR CONTINUATION.
6. REMOVE EXISTING RETURN AIR TRANSFER.
7. REMOVE EXISTING 6" EXHAUST DUCTWORK.

KEY PLAN:



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CONSTRUCTION DOCUMENT

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'C'

M0.03

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RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

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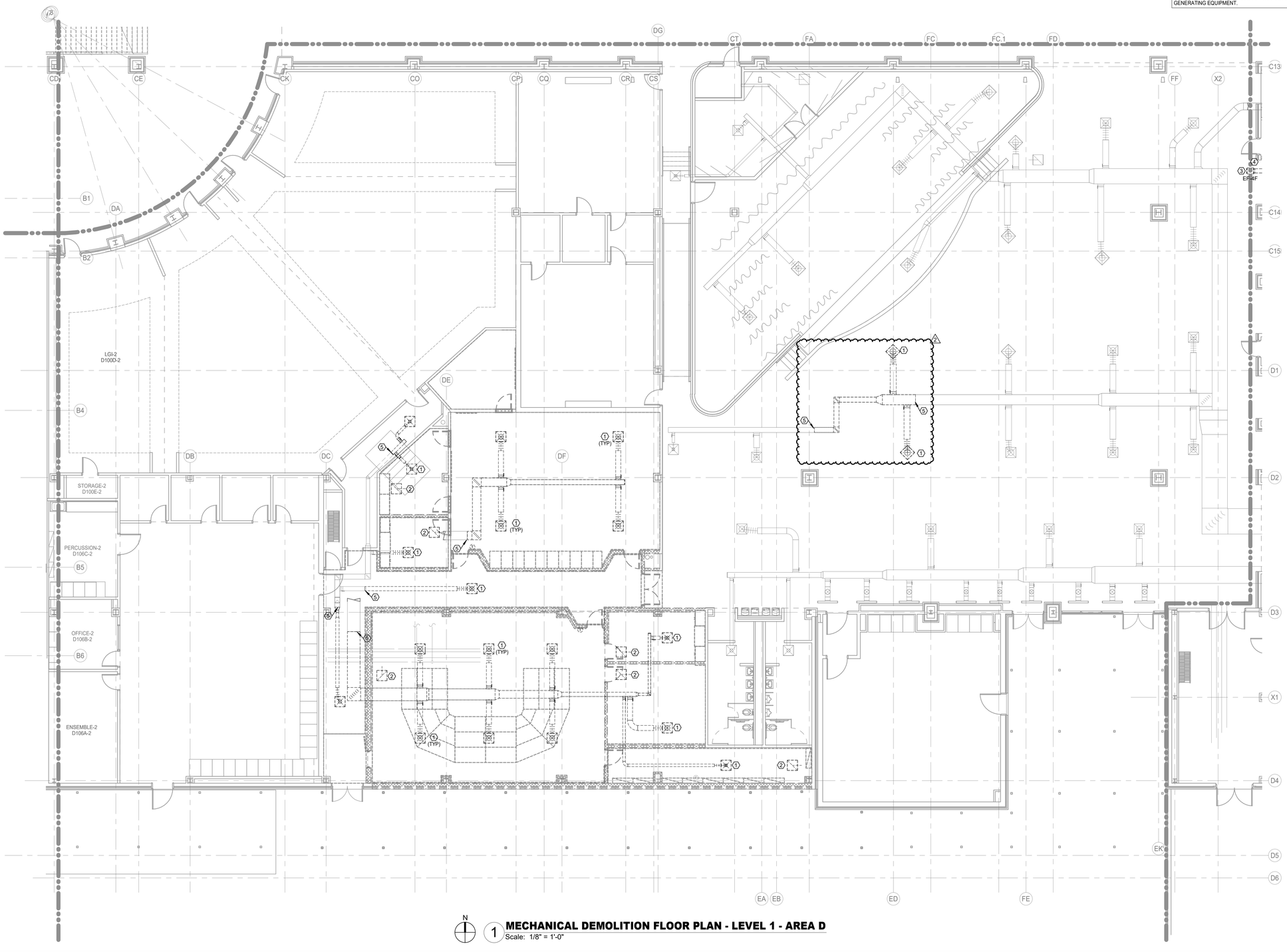
DEMOLITION KEYED NOTES

1. REMOVE EXISTING SUPPLY AIR GRILLE AND EXISTING DUCTWORK UP TO INDICATED POINT.
2. REMOVE EXISTING RETURN AIR DEVICE.
3. REMOVE EXISTING EXHAUST FAN ASSOCIATED DUCTWORK, CONTROLS AND ELECTRICAL CONNECTIONS.
4. SEE 1/M0.06 FOR CONTINUATION.
5. REMOVE EXISTING DUCTWORK BACK TO POINT INDICATED.



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1 **MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D**
Scale: 1/8" = 1'-0"

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CONSTRUCTION DOCUMENT

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

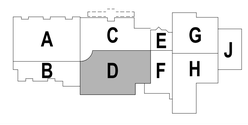
13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'D'

KEY PLAN:



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Project No: 2024-00209-00

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

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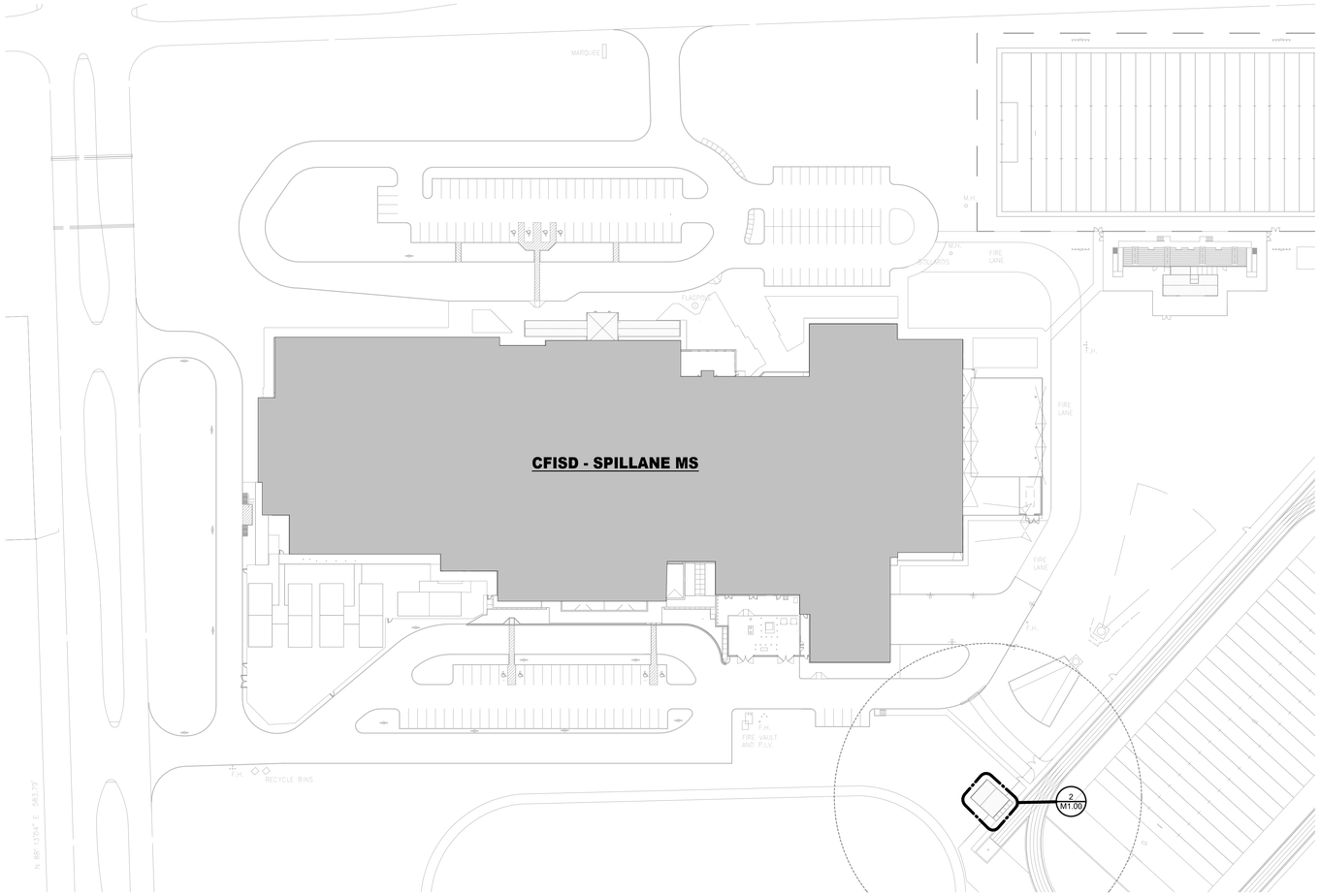
MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. PROVIDE WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER RUSKIN MODEL EME520MD OR APPROVED EQUAL AND MINIMUM FREE AREA OF AS NOTED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
3. SHEET METAL PLENUM ON REAR OF LOUVER WITH MOTORIZED DAMPER.
4. PROVIDE WITH LINE VOLTAGE HUMIDITY SENSOR.
5. PROVIDE WITH LINE VOLTAGE MOTORIZED DAMPER FOR EXHAUST AND MAKEUP AIR LOUVER.



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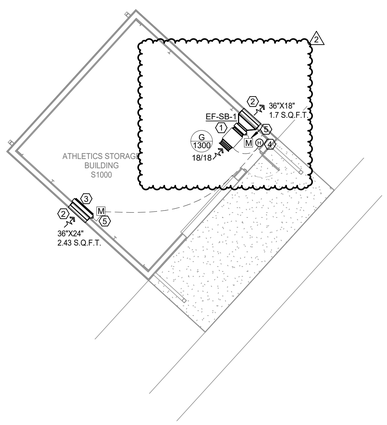
1 **MECHANICAL SITE PLAN**
Scale: 1" = 60'-0"

FIELD STORAGE VENTILATION SEQUENCE OF OPERATION

UPON HUMIDITY RISING ABOVE 80% (ADJ.), OUTSIDE AIR DAMPER ON INTAKE LOUVER SHALL OPEN, EXHAUST FAN DAMPER SHALL OPEN AND EXHAUST FAN SHALL BE ENABLED.



N

2 **MECHANICAL SITE PLAN - STORAGE BUILDING**
Scale: 1/8" = 1'-0"

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

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CFISD PROJECT NO: 24-02-5751-R-RFP

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	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL SITE PLAN

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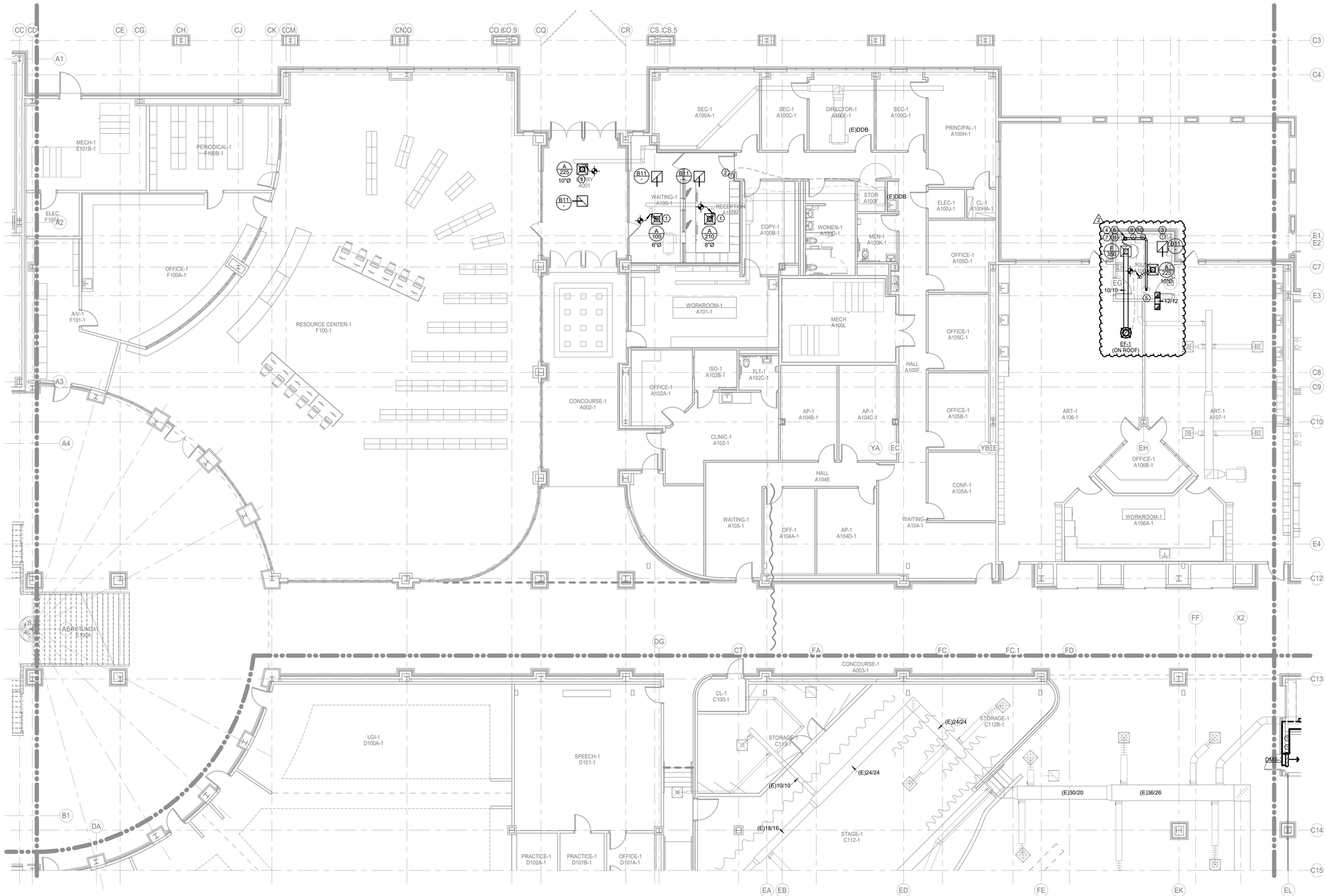
MECHANICAL KEYED NOTES:

1. PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN LOCATION INDICATED.
2. AVERAGING TEMPERATURE SENSOR FOR DUAL DUCT BOX INDICATED.
3. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
4. ROUTE KILN ALUMINUM DUCTWORK DOWN ALONG WALL TO 24" A.F.F FOR CONNECTION TO KILN FUME FAN. REFER TO DETAIL.
5. ROUTE FAN DISCHARGE DUCT AS SHOWN UP TO GOOSENECK ON ROOF. REUSE EXISTING ROOF OPENING. REFER TO GOOSENECK DETAIL.
6. MOUNT KILN FAN TO WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. KILN VENTILATION SHALL BE ENVIROVENT 2 BY SKUTT. PROVIDE KILN WITH ENVIROLINK CONTROLLER AND ALL WIRES WITH SUFFICIENT LENGTH TO MAKE ALL CONNECTIONS AS PER MANUFACTURER RECOMMENDATIONS.
8. PROVIDE ALUMINUM FLEX TO CONNECT KILN ALUMINUM DUCT WITH KILN FAN.
9. THERMOSTAT SHALL BE SET TO 80°F (ADJUSTABLE).
10. PROVIDE HEAT DETECTOR, INTERLOCK WITH KILN TO SHUT OFF POWER SOURCE AT 135°F (ADJUSTABLE) MOUNT HEAT DETECTOR ON CEILING AT LOCATION SHOWN.



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1 **MECHANICAL FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

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2024 SMITH & SPILLANE MS RENOVATIONS

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	Revisions / Submission	

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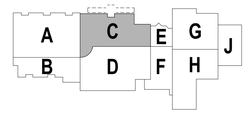

MECHANICAL FIRST FLOOR PLAN - AREA 'C'

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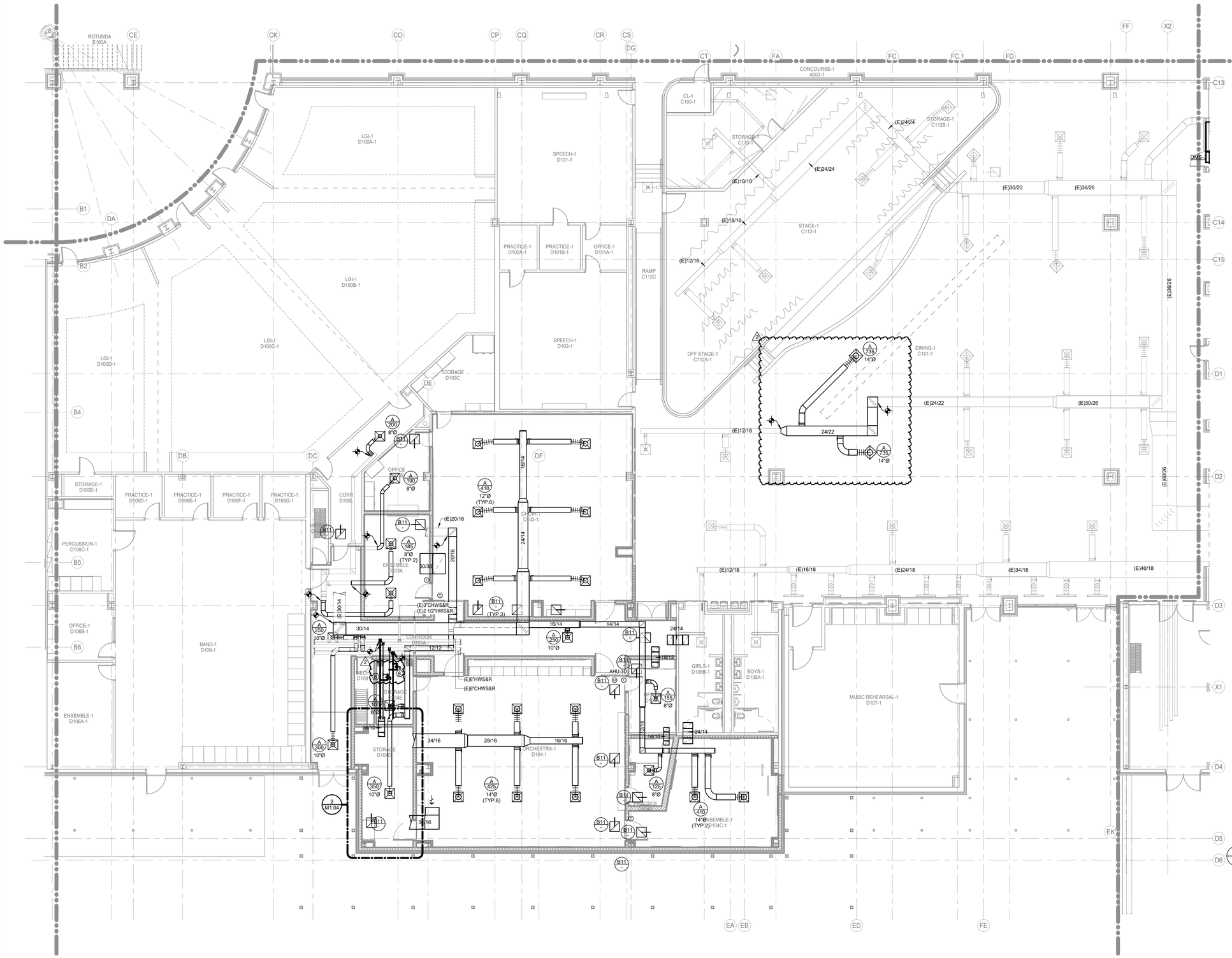
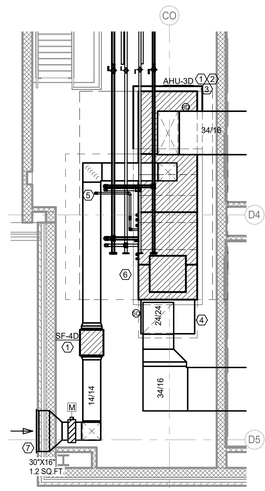


1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA D
Scale: 1/8" = 1'-0"



2 ENLARGED MECHANICAL MEZZANINE
Scale: 1/4" = 1'-0"

RENOVATIONS

	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

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1. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. VERIFY SERVICE CLEARANCE FOR AIR FILTER REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
3. VERIFY SERVICE CLEARANCE FOR FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
4. SHEET METAL PLENUM. FULL SIZE OF UNIT RETURN AIR OPENING, LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS SHOWN.
5. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO NEW FLOOR DRAIN LOCATED IN MECHANICAL MEZZANINE.
6. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
7. PROVIDE WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER RUSKIN MODEL EMES20MD OR APPROVED EQUAL AND MINIMUM FREE AREA OF AS NOTED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
8. 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.

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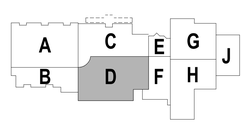

MECHANICAL FIRST FLOOR PLAN - AREA 'D'

M1.04

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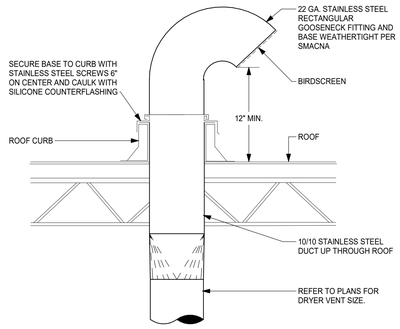
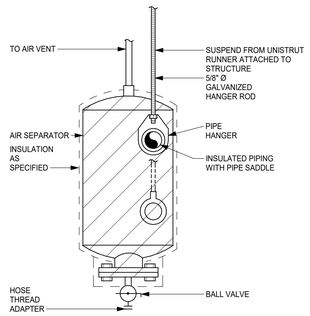
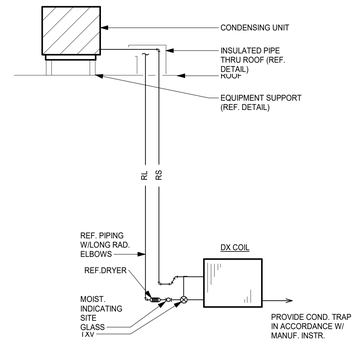


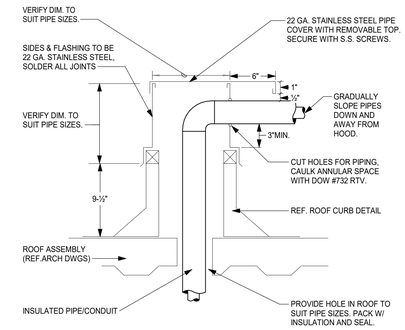
15 VENT THROUGH ROOF
SCALE: NONE



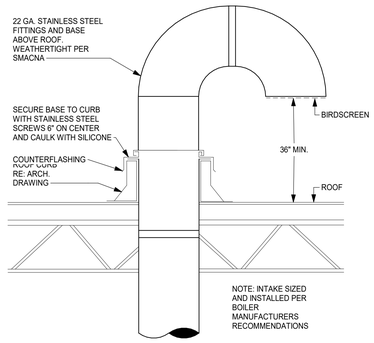
11 SUPPORT AT AIR SEPARATOR
SCALE: NONE



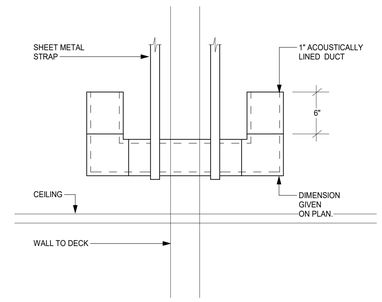
7 REFRIGERANT PIPING DIAGRAM
SCALE: NONE



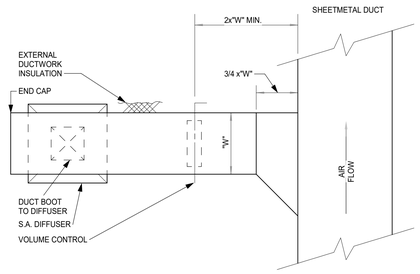
14 INSULATED PIPE THRU ROOF
SCALE: NONE



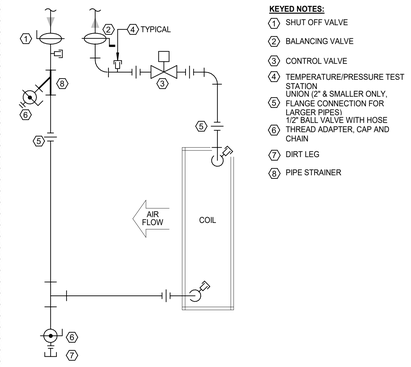
POWER EXHAUSTED BOILER COMBUSTION AIR INTAKE THRU ROOF
SCALE: NONE



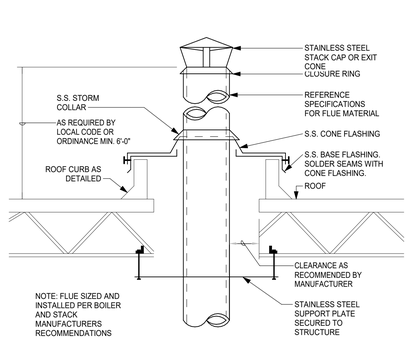
6 TRANSFER AIR DUCT
SCALE: NONE



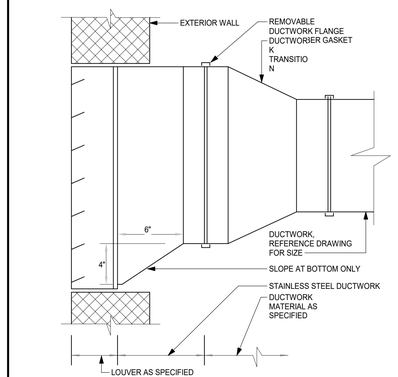
RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
SCALE: NONE



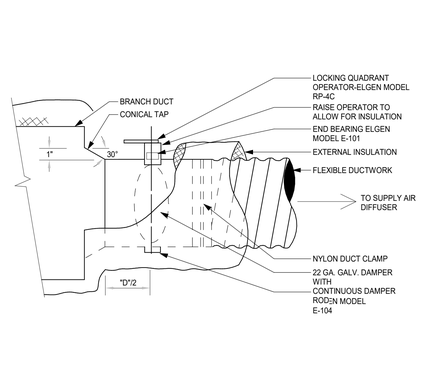
13 PIPING AT WATER COIL
SCALE: NONE



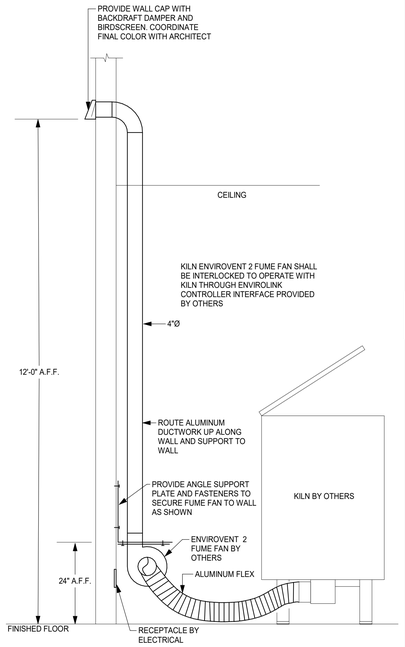
POWER EXHAUSTED BOILER FLUE THRU ROOF
SCALE: NONE



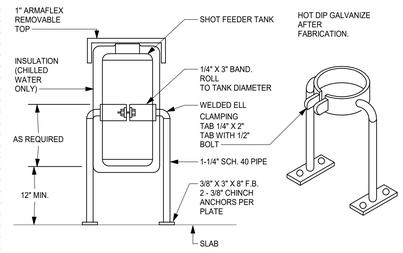
5 DUCTWORK AT LOUVER
SCALE: NONE



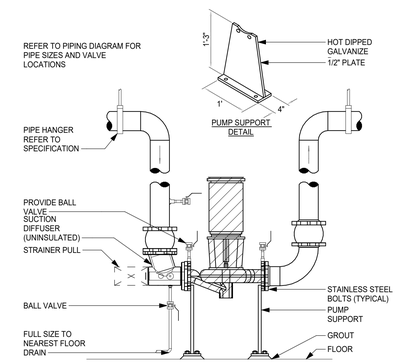
2 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



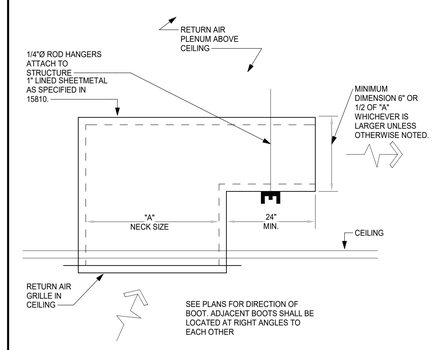
16 KILN EXHAUST DETAIL
SCALE: NONE



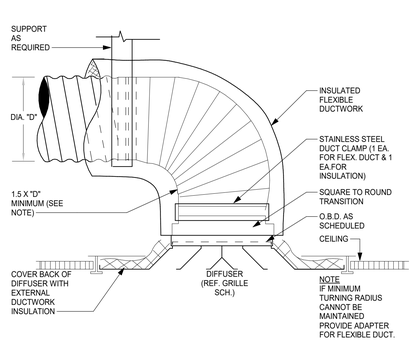
CHILLED AND HOT WATER CHEMICAL FEEDER TANK SUPPORT DETAIL
SCALE: NONE



8 VERTICAL INLINE PUMP SUPPORT
SCALE: NONE



4 RETURN AIR GRILLE BOOT
SCALE: NONE



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
SCALE: NONE

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CONSTRUCTION DOCUMENT

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25

Revisions / Submission

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL DETAILS

M3.01

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FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	LOCALLY SWITCHED T-STAT	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	KILN	350	0.25	1800	0.25	120	1	60	T-STAT	-	ROOF MOUNTED	DIRECT	COOK	ACED	(1,2,3,7)
EF-SB-1	STORAGE BLDNG	1300	0.50	1800	0.5	120	1	60	H-STAT	-	INLINE	DIRECT	COOK	SQND	(1,2,3,4,5,6)
SF-4D	MECH MEZZ D201	900	0.50	1800	0.33	120	1	60	-	AHU-3D	INLINE	DIRECT	COOK	SQND	(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. (BMCS)
3. PROVIDE WITH FAN SPEED CONTROLLER.
4. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
5. PROVIDE WITH LINE VOLTAGE MOTORIZED DAMPER FOR EXHAUST AND MAKEUP AIR LOUVER.
6. PROVIDE WITH ROOF CURB AND BIRD SCREEN.

AIR HANDLING UNIT

MARK	FAN SUPPLY AIR CFM	FAN OUTSIDE AIR CFM	FAN EXT. STATIC PRESSURE (IN. W.C)	FAN HORSE POWER	FAN CURRENT CHARAC. V	PH	F	COOLING AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING WATER ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	HEATING ENTERING AIR TEMPERATURE (°F)	HEATING MIN. HEATING CAPACITY	WATER ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	PIPE SIZE TO COIL (IN.) CHILLED WATER	HOT WATER	REMARKS
AHU-3D	2,550	900	0.95	3.0	480	3	60	82.9	68.8	54.5	54.0	42	14.8	15.0	64.0	85,374	180.0	8.6	10.0	1 1/2"	1 1/4"	1,3,4,5,6,7,9,10,11
AHU-3D(A)	900	900						98.0	79.0	54.5	54.0	42	10.0	15.0	27.0	26,244	180.0	2.7	10.0	1 1/4"	3/4"	2,3,6,7,8,10,12

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 HORIZONTAL UNIT.
4. PROVIDE SINGLE ZONE VARIABLE VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.
5. PROVIDE TOP DISCHARGE.
6. PROVIDE TWO-WAY COOLING CONTROL VALVES.
7. PROVIDE TWO-WAY HEATING CONTROL VALVES.
8. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
9. PROVIDE HOT WATER COIL IN REHEAT POSITION.
10. PROVIDE UNIT WITH ANGLED FILTER SECTION.
11. SPLIT DEHUMIDIFICATION UNIT TO BE MOUNTED ON TOP OF AHU.
12. 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.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	FAN POWER WATTS	FAN CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	REMARKS
DMS-1	375	35.0	208		60	75.0	62.5	18,000	14,400	15	(1,2,3,4,5)
DMS-2	750	45.0	208		60	75.0	62.5	34,200	27,360	15	(1,2,3,4,5)
DMS-3	375	35.0	208		60	75.0	62.5	18,000	14,400	15	(1,2,3,4,5)

GENERAL NOTES:
1. MAINTAIN MINIMUM CLEARANCE 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. 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. PROVIDE WITH LITTLE GIANT CONDENSATE PUMP MODEL VCMA-20ULS-C-PRO, 1/30 HP, 115V/1PH/60HZ. MOUNT PUMP UNDER HIGH WALL UNIT.
5. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	18,000	95	13.0	208		60	DMS-1	(1,2,3)
DMSCU-2	34,200	95	13.0	208		60	DMS-2	(1,2,3)
DMSCU-3	18,000	95	13.0	208		60	DMS-3	(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.

BOILER - FORCED AIR

MARK	TYPE	MINIMUM GAS INPUT (BTUH)	MINIMUM HEAT OUTPUT (BTUH)	PRESSURE DROP (FT.H20)	GPM	FLUE SIZE	ELECTRICAL BLOWER HORSEPOWER	CURRENT V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
B-2	CONDENSING	3,000,000	2,862,000	15.0	191.0	10	0.50	480	1	60	RAYPAK	XVers	(1,2,3)
B-1	CONDENSING	3,000,000	2,862,000	15.0	191.0	10	0.50	480	1	60	RAYPAK	XVers	(1,2,3)

GENERAL NOTES:
1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER.
2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.
2. PROVIDE SEALED COMBUSTION BOILER.
3. ALL BOILERS MOTORS AND CIRCULATION PUMPS SHALL COMPLY WITH SECTION 23 05 13.

PUMP

TAG	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX. RPM	CURRENT CHARAC. V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
SHWP-2	HEATING HOT WATER	VERTICAL INLINE	286	105.00	15	1,800	480	3	60	ARMSTRONG	4300	(1,2,4)
SHWP-1	HEATING HOT WATER	VERTICAL INLINE	286	105.00	15	1,800	480	3	60	ARMSTRONG	4300	(1,2,4)
PHWP-2	HEATING HOT WATER	INLINE CIRCULATOR	191	25.00	5	1,800	480	3	60	-	-	(3,4)
PHWP-1	HEATING HOT WATER	INLINE CIRCULATOR	191	25.00	5	1,800	480	3	60	-	-	(3,4)

GENERAL NOTES:
1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.
2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.

REMARKS:
1. PROVIDE WITH VARIABLE FREQUENCY DRIVE.
2. PROVIDE SUCTION DIFFUSER AT PUMP INLET.
3. PUMP SHALL BE SELECTED BY BOILER MANUFACTURER, WITH DISCONNECT AND STARTER BY ELECTRICAL CONTRACTOR AND CONTROLLED BY BOILER.
4. PROVIDE PUMPS WITH GAUGE TAPPINGS.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TDC	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" CONE FACE. ROUND NECK.
B	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" FACE. LOUVERED FACE.
C	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TDC	SURFACE MOUNT CEILING FRAME STYLE WITH 22"X22" OR 12"X12" CONE FACE. ROUND NECK.
D	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" FACE.
E	EXHAUST AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" FACE. PERFORATED FACE.
ER	RETURN AIR	-	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. REUSE AND BALANCE TO INDICATED CFM.
ES	SUPPLY AIR	DIFFUSER/ GRILLE	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. REUSE AND BALANCE TO INDICATED CFM.
F	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	350RL	SURFACE MOUNT CEILING FRAME STYLE WITH 22"X22" OR 12"X12" FACE. PERFERATED FACE.
ST	GRILLE	-	STEEL	WHITE	TITUS	350RL	SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)	

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

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

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL SCHEDULES

M4.01

____ of ____

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Registration: F-4111
Project No: 2024-00209-00

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

GENERAL NOTES:

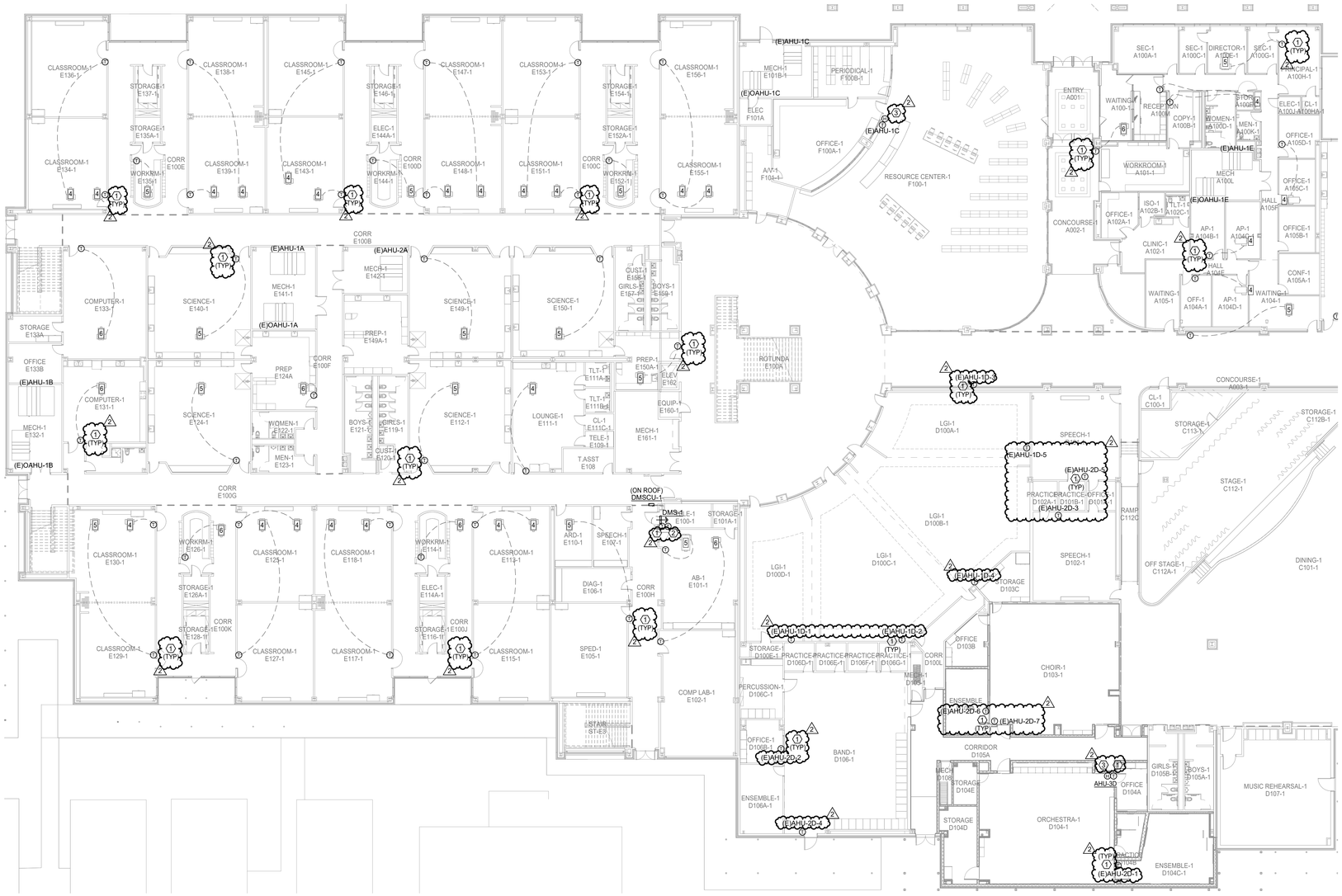
1. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
2. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

MECHANICAL KEYED NOTES:

1. PROVIDE NEW DDC TEMPERATURE SENSOR AND CONTROL WIRING. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
3. PROVIDE NEW HUMIDITY SENSOR AT LOCATION SHOWN. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

EXISTING DUAL DUCT BOX SCHEDULE

MARK	CFM RANGE	INLET SIZE
1	150-350	6"Ø
2	355-500	7"Ø
3	505-650	8"Ø
4	655-1000	10"Ø
5	1005-1500	12"Ø
6	1505-2200	14"Ø
7	2205-3000	16"Ø



N

1 **MECHANICAL CONTROLS PLAN - LEVEL 1 - AREA A, B, C, D**
Scale: 1/16" = 1'-0"

NATEX CORPORATION ARCHITECTS
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CONSTRUCTION DOCUMENT

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

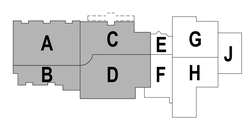
13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2 Addendum 03 02-14-25
Revisions / Submission

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL CONTROLS FIRST FLOOR PLAN - AREA A, B, C, D

KEY PLAN:



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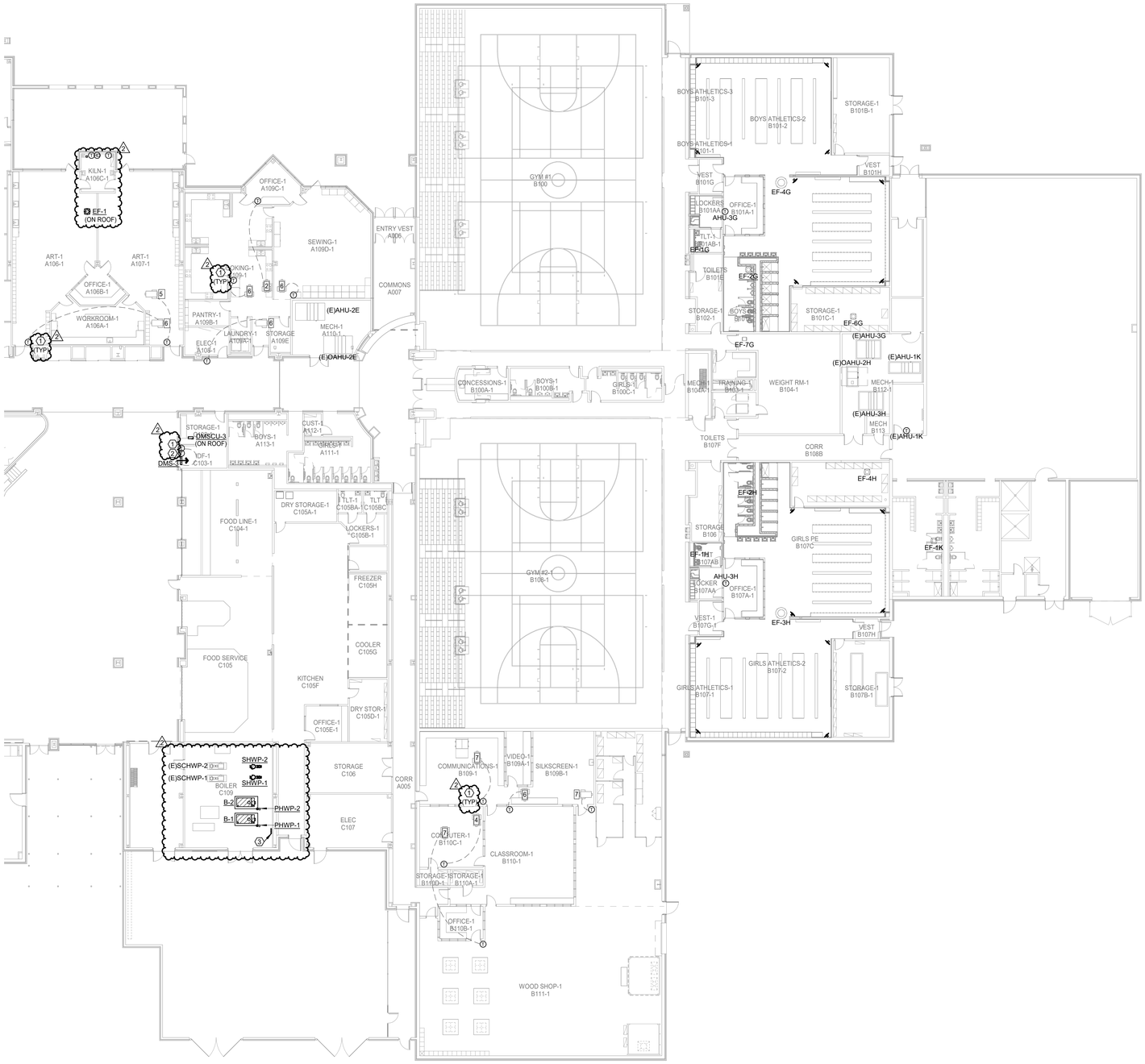

N

1 MECHANICAL CONTROLS PLAN - LEVEL 1 - AREA E, F, G, H, J

Scale: 1/16" = 1'-0"

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING: THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

EXISTING DUAL DUCT BOX SCHEDULE

MARK	CFM RANGE	INLET SIZE
1	150-350	6"Ø
2	355-500	7"Ø
3	505-650	8"Ø
4	655-1000	10"Ø
5	1005-1500	12"Ø
6	1505-2200	14"Ø
7	2205-3000	16"Ø

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 DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

MECHANICAL KEYED NOTES:

1. PROVIDE NEW DDC TEMPERATURE SENSOR AND CONTROL WIRING. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
3. PROVIDE, INSTALL AND STARTUP NEW CARBON MONOXIDE MONITORING SYSTEM. REFER TO SPEC FOR ADDITIONAL INFORMATION.

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Registration: F-4111
Project No: 2024-00209-00

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

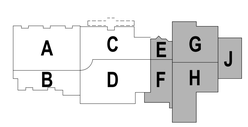
SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



MECHANICAL CONTROLS FIRST FLOOR PLAN - AREA E, F, G, H, J

M5.02

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Autodesk Docs://23072_CFISD_Phase_6_r22/CFISD-SPILLANE MS_MEPT_R22.rvt

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Registration: F-4111
Project No: 2024-00209-00

CONTRACTOR SHALL PROVIDE DEHUMIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHTOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

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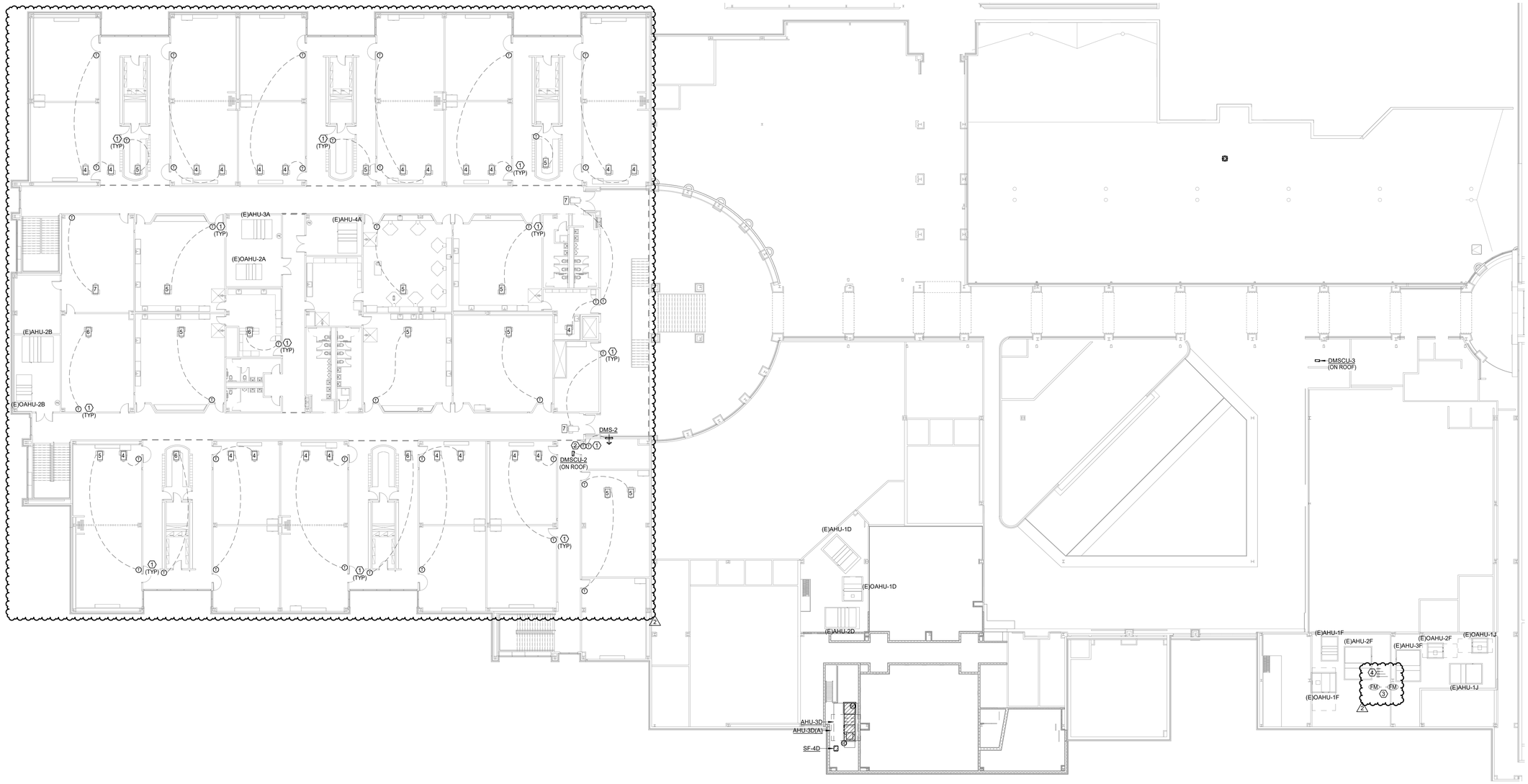
EXISTING DUAL DUCT BOX SCHEDULE

MARK	CFM RANGE	INLET SIZE
1	150-350	6"Ø
2	355-500	7"Ø
3	505-650	8"Ø
4	655-1000	10"Ø
5	1005-1500	12"Ø
6	1505-2200	14"Ø
7	2205-3000	16"Ø

MECHANICAL KEYED NOTES:

1. PROVIDE NEW DDC TEMPERATURE SENSOR AND CONTROL WIRING. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
3. PROVIDE AND INSTALL FLOW METER IN CHILLED/HOT WATER SUPPLY PIPING TO BE USED IN CALCULATING AND LOGGING THE KITCHEN BTUH USAGE THROUGH THE BMCS. METER SHALL BE INSTALLED PER MANUFACTURERS REQUIREMENTS. REINSULATE PIPING AFTER INSTALLATION IS COMPLETE.
4. PROVIDE AND INSTALL CHILLED/HOT WATER SUPPLY AND RETURN TEMPERATURE SENSORS TO BE USED IN CALCULATING AND LOGGING THE KITCHEN BTUH USAGE THROUGH THE BMCS. REINSULATE PIPING AFTER INSTALLATION IS COMPLETE.



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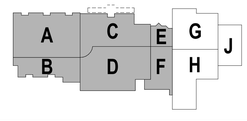
1 **MECHANICAL CONTROLS FLOOR PLAN - LEVEL 2 - AREA A, B, C, D, E, F**
Scale: 1/16" = 1'-0"

KEY PLAN:



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CONSTRUCTION DOCUMENT

BRADLEY KALMANS
80219
LICENSED
ARCHITECT
02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02.14.25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL CONTROLS SECOND FLOOR PLAN

M5.03

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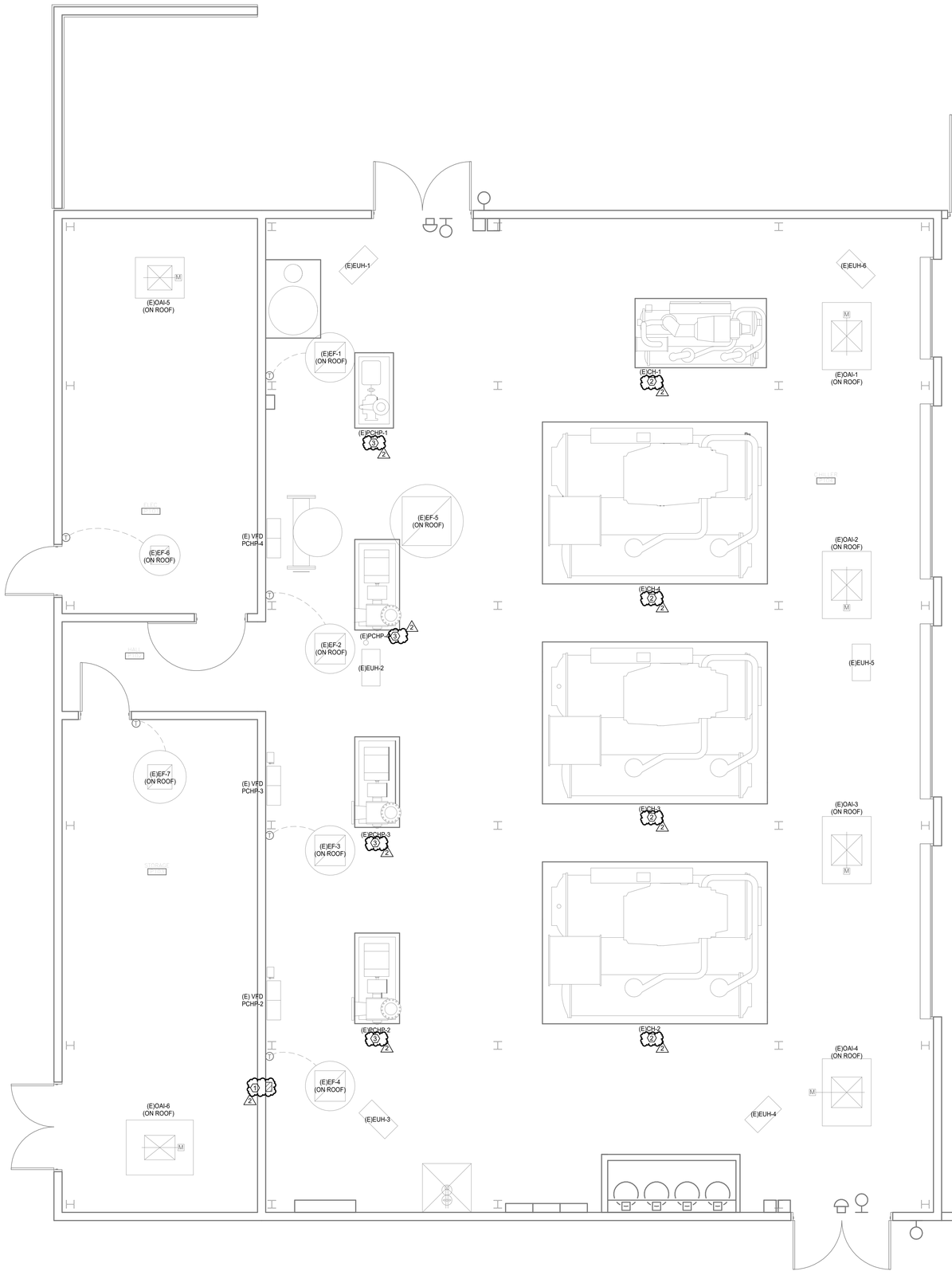
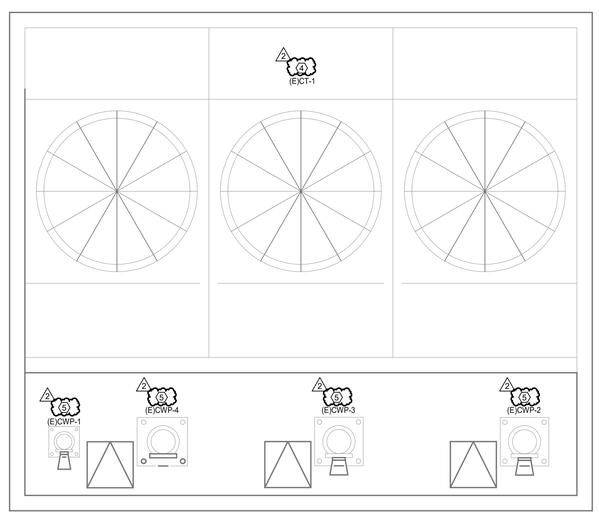
Registration: F-4111
Project No: 2024-00209-00





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MECHANICAL KEYED NOTES:

1. REPLACE EXISTING REFRIGERANT MONITORING STATION AND CONNECT TO BMCS. REFER TO SPEC FOR ADDITIONAL INFORMATION.
2. REPLACE EXISTING SENSORS AT CHILLER AT CONNECT TO BMCS. REFER TO SPEC FOR ADDITIONAL INFORMATION.
3. REPLACE EXISTING SENSORS AT CHILLED WATER PUMP AT CONNECT TO BMCS. REFER TO SPEC FOR ADDITIONAL INFORMATION.
4. REPLACE EXISTING MOTORIZED VALVES AT COOLING TOWER PIPING AND CONNECT TO BMCS. REFER TO SPEC FOR ADDITIONAL INFORMATION.
5. REPLACE EXISTING SENSORS AT CONDENSER WATER PUMP AT CONNECT TO BMCS. REFER TO SPEC FOR ADDITIONAL INFORMATION.

N

1 **SKINNER CENTRAL PLANT**
Scale: 1/4" = 1'-0"

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL CONTROLS PLAN - CENTRAL PLANT

M5.04

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Autodesk Docs://23072_CFSID_Phase_6_/22/CFISD-SPILLANE MS_MEPT_R22.rvt

(E)AIR HANDLING UNIT

MARK	TYPE	FAN							COOLING								HEATING						PIPE SIZE TO COIL (IN.)		REMARKS
		SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	CURRENT CHARAC. V	PH	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	WATER ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	VALVE TYPE	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	WATER ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	VALVE TYPE	CHILLED WATER	HOT WATER	
(E)AHU-1A	DDU	12,765	4,635	2.5	15	480	3	60	74.8	62.9	53.4	52.2	42	45.0	15.0	2-WAY	63.7	347,300	180.0	34.7	10.0	2-WAY	2-1/2"	2"	1,2
(E)AHU-2A	DDU	12,660	3,780	2.5	15	480	3	60	76.1	63.3	55.7	54.9	42	39.1	15.0	2-WAY	65.7	322,300	180.0	32.2	10.0	2-WAY	2"	2"	1,2
(E)AHU-3A	DDU	15,320	5,010	2.5	20	480	3	60	77.0	63.5	54.6	54.0	42	53.7	15.0	2-WAY	64.8	401,800	180.0	40.2	10.0	2-WAY	2-1/2"	2-1/2"	1,2
(E)AHU-4A	DDU	13,115	3,990	2.5	15	480	3	60	77.8	63.8	55.2	54.5	42	45.4	15.0	2-WAY	65.5	335,900	180.0	33.6	10.0	3-WAY	2-1/2"	2"	1,2
(E)AHU-1B	DDU	12,625	4,560	2.5	15	480	3	60	71.1	61.2	50.9	50.7	42	46.0	15.0	2-WAY	62.8	326,700	180.0	32.6	10.0	2-WAY	2-1/2"	2-1/2"	1,2
(E)AHU-2B	DDU	16,350	4,890	2.5	20	480	3	60	77.0	63.5	54.9	54.3	42	55.8	15.0	2-WAY	65.7	416,500	180.0	41.6	10.0	3-WAY	2-1/2"	2"	1,2
(E)AHU-1D	DDU	6,135	3,000	2.0	7.5	480	3	60	89.2	70.9	63.2	61.9	42	22.2	15.0	2-WAY	65.0	286,100	180.0	28.6	10.0	3-WAY	2"	2"	1,2
(E)AHU-2D	DDU	11,470	4,125	2.0	15	480	3	60	73.9	64.1	55.3	54.9	42	39.4	15.0	2-WAY	65.0	373,200	180.0	37.3	10.0	2-WAY	2"	2"	1,2
(E)AHU-1E	DDU	7,635	1,455	2.5	10	480	3	60	80.1	64.1	53.5	53.1	42	30.4	15.0	2-WAY	68.9	169,800	180.0	17.0	10.0	3-WAY	2"	1-1/2"	1,2
(E)AHU-2E	DDU	9,320	1,590	2.5	15	480	3	60	80.3	64.1	53.8	53.4	42	36.6	15.0	2-WAY	69.7	204,900	180.0	20.5	10.0	3-WAY	2"	2"	1,2
(E)AHU-1J	DDU	12,110	2,880	1.0	15	480	3	60	73.3	61.7	51.9	51.8	42	39.8	15.0	2-WAY	67.1	275,800	180.0	27.6	10.0	2-WAY	2"	2"	1,2
(E)OAHU-1A	SZU	8,415	8,415	0.5	7.5	480	3	60	97.0	77.0	53.0	52.8	42	87.1	15.0	2-WAY	20.0	336,800	180.0	33.6	10.0	2-WAY	3"	2"	1,2
(E)OAHU-2A	SZU	8,940	8,940	0.5	7.5	480	3	60	97.0	77.0	53.0	52.9	42	92.4	15.0	2-WAY	20.0	347,300	180.0	35.7	10.0	2-WAY	3"	2"	1,2
(E)OAHU-1B	SZU	4,560	4,560	0.5	3	480	3	60	97.0	77.0	53.4	53.4	42	47.4	15.0	2-WAY	20.0	151,300	180.0	15.1	10.0	2-WAY	2-1/2"	1-1/2"	1,2
(E)OAHU-2B	SZU	4,890	4,890	0.5	5	480	3	60	97.0	77.0	53.6	53.4	42	50.7	15.0	2-WAY	20.0	162,300	180.0	16.2	10.0	2-WAY	2-1/2"	1-1/2"	1,2
(E)OAHU-1D	SZU	7,125	7,125	0.5	5	480	3	60	97.0	77.0	52.9	52.7	42	74.1	15.0	2-WAY	20.0	231,800	180.0	23.2	10.0	2-WAY	3"	2"	1,2
(E)OAHU-1E	SZU	1,455	1,455	0.5	1.5	480	3	60	97.0	77.0	52.8	52.7	42	15.1	15.0	2-WAY	20.0	52,500	180.0	5.2	10.0	2-WAY	1-1/2"	1"	1,2
(E)OAHU-2E	SZU	1,590	1,590	0.5	1	480	3	60	97.0	77.0	53.0	52.8	42	16.5	15.0	2-WAY	20.0	51,700	180.0	5.1	10.0	2-WAY	1-1/2"	1"	1,2
(E)OAHU-1J	SZU	2,880	2,880	0.5	2	480	3	60	97.0	77.0	52.4	52.3	42	30.3	15.0	2-WAY	20.0	119,400	180.0	11.9	10.0	2-WAY	2"	1-1/4"	1,2

REMARKS:
1. REPLACE EXISTING CHILLED WATER CONTROL VALVE AND ACTUATORS, BALANCING AND ISOLATION VALVES AND EXISTING PIPING AND APPURTENANCES AS INDICATED ON DETAIL #10/M5.01 WITH NEW.
2. REPLACE EXISTING HEATING HOT WATER CONTROL VALVE AND ACTUATORS, BALANCING AND ISOLATION VALVES AND EXISTING PIPING AND APPURTENANCES AS INDICATED ON DETAIL #9/M5.01 WITH NEW.

(E)COOLING TOWER

MARK	ENTERING WATER TEMP.(°F)	LEAVING WATER TEMP.(°F)	GPM	TOTAL TONS (EACH CELL)	AMBIENT WET BULB TEMP. (°F)	NO. OF CELLS	MOTOR HP (EACH)	CURRENT CHARAC. V	P	F	MANUFACTURER	MODEL	REMARKS
(E)CT-1	96.0	86.0	6,600	1,100	80	3	50 (3)	480	3	60	MARLEY	SIGMA F SERIES	1

REMARKS:
1.REPLACE BYPASS CONTROL VALVES ON CONDENSER WATER PIPING

BOILER SCHEDULE

MARK	EWT (°F)	LWT (°F)	GPM	MINIMUM INPUT (MBH)	MINIMUM HEATING OUTPUT (MBH)	GAS MANIFOLD PRESSURE (PSI)	FLUE SIZE (IN. ROUND)	ELECTRICAL BLOWER HP	ELECTRICAL CURRENT CHARAC. (V/PH/HZ)	REMARKS
B-1	150°	180°	191	3,000	2,862	-	10	0.5	480/1/60	1
B-2	150°	180°	191	3,000	2,862	-	10	0.5	480/1/60	1

REMARKS:
1. NEW EQUIPMENT PROVIDED AS PART OF BUILDING RENOVATION.
REFER TO BUILDING RENOVATIONS DRAWINGS FOR ADDITIONAL INFORMATION.

(E)WATER COOLED CHILLER

MARK	TONS	EVAPORATOR MAX GPM	EVAPORATOR MIN. GPM	EVAPORATOR LWT	CONDENSER FLOW GPM	VALVE TYPE	PIPE SIZE	REMARKS
(E)CH-01	220	328.6	-	40°	440	2-WAY	8"	1
(E)CH-02	1,100	1,642.2	-	40°	2,200	2-WAY	8"	1
(E)CH-03	1,100	1,642.2	-	40°	2,200	2-WAY	8"	1
(E)CH-04	1,100	1650	-	40°	2,200	2-WAY	8"	1

REMARKS:
1.EXISTING CONDENSER WATER AND CHILLED WATER ISOLATIONS SHALL BE REPLACED.

PUMP

MARK	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX. RPM	CURRENT CHARAC. V	P	F	MANUFACTURER	MODEL NUMBER
(E)PCHP-1	CHILLED WATER	END SUCTION	330	167	30	1750	480	3	60	BELL & GOSSETT	1510
(E)PCHP-2	CHILLED WATER	HORIZONTAL SPLIT CASE	1642	167	100	1750	480	3	60	BELL & GOSSETT	-
(E)PCHP-3	CHILLED WATER	HORIZONTAL SPLIT CASE	1642	167	100	1750	480	3	60	BELL & GOSSETT	-
(E)PCHP-4	CHILLED WATER	HORIZONTAL SPLIT CASE	1650	167	100	1750	480	3	60	BELL & GOSSETT	-
(E)SCHP-1	CHILLED WATER	END SUCTION	680	120	40	1750	480	3	60	BELL & GOSSETT	1510
(E)SCHP-2	CHILLED WATER	END SUCTION	680	120	40	1750	480	3	60	BELL & GOSSETT	1510
(E)CWP-1	CONDENSER WATER	VERTICAL TURBINE	440	88	15	1750	480	3	60	ARMSTRONG	10M55
(E)CWP-2	CONDENSER WATER	VERTICAL TURBINE	2200	88	75	1750	480	3	60	ARMSTRONG	14M270
(E)CWP-3	CONDENSER WATER	VERTICAL TURBINE	2200	88	75	1750	480	3	60	ARMSTRONG	14M270
(E)CWP-4	CONDENSER WATER	VERTICAL TURBINE	2200	88	75	1750	480	3	60	ARMSTRONG	14M270
SHWP-1	HEATING HOT WATER	VERTICAL INLINE	286	105	15	1800	480	3	60	ARMSTRONG	4300
SHWP-2	HEATING HOT WATER	VERTICAL INLINE	286	105	15	1800	480	3	60	ARMSTRONG	4300
PHWP-1	HEATING HOT WATER	INLINE CIRCULATOR	191	25	5	1800	480	3	60	-	-
PHWP-2	HEATING HOT WATER	INLINE CIRCULATOR	191	25	5	1800	480	3	60	-	-

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	WATTS	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/SEER	REMARKS
DMS-1	375	35.0	208	1	60	75.0	62.5	18,000	14,400	15.0/-	1
DMS-2	750	45.0	208	1	60	75.0	62.5	34,200	27,360	15.0/-	1
DMS-3	375	35.0	208	1	60	75.0	62.5	18,000	14,400	15.0/-	1

REMARKS:
1. NEW EQUIPMENT PROVIDED AS PART OF BUILDING RENOVATION.
REFER TO BUILDING RENOVATIONS DRAWINGS FOR ADDITIONAL INFORMATION.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM SEER/HSPF 2	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	18,000	95	15.0/-	208	1	60	DMS-1	1
DMSCU-2	34,200	95	15.0/-	208	1	60	DMS-2	1
DMSCU-3	18,000	95	15.0/-	208	1	60	DMS-3	1

REMARKS:
1. NEW EQUIPMENT PROVIDED AS PART OF BUILDING RENOVATION.
REFER TO BUILDING RENOVATIONS DRAWINGS FOR ADDITIONAL INFORMATION.

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
#	NOTE SPECIFIC TO DETAIL TAG
#△	REVISION TAG
EH	ELECTRIC DUCT HEATER
UH	ELECTRIC UNIT HEATER
△	PUMP
DS	MOTOR STARTER/DISCONNECT
VD	VARIABLE FREQUENCY DRIVE
CP	BUILDING MANAGEMENT CONTROL PANEL (EXISTING)
D	FLOW METER DISPLAY
LC	LIGHTING CONTACTOR
CONTROL	
FD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
M	MOTORIZED DAMPER
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
B	LIGHTING TLO BUTTON (1)
m	HVAC TLO BUTTON (1)
E	EMERGENCY SHUTDOWN STATION (1)
CO2	CARBON DIOXIDE SENSOR
TS	TIMER SWITCH
TL	LINE VOLTAGE THERMOSTAT
KT	KILN TIMER
CO	CARBON MONOXIDE MONITOR
PB	PURGE BUTTON
HS	FUME HOOD SWITCH
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
HWC	HOT WATER COIL

REMARKS:
1.COORDINATE LOCATION WITH OWNER, COMMISSIONING AND ENGINEER.

NOTE: SCHEDULES INCLUDED ON THIS SHEET ARE SUPPLEMENTARY INFORMATION FOR THE NEW EQUIPMENT INSTALLED AS PART OF THE BUILDING RENOVATION. REFER TO BUILDING RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

MECHANICAL CONTROLS SCHEDULES

△2 M5.05

____ of ____

ELECTRICAL KEYED NOTES

1	CONTROL EXTERIOR LIGHTING WITH PHOTOCELL INTERMATIC #EK4236S OR APPROVED EQUAL. LOCATE PHOTOSENSOR SURFACEMOUNTED ON THE NORTH SIDE OF THE BUILDING. LOCATION IS TO BE APPROVED BY OWNER / ARCHITECT.
2	BORE UNDER CONCRETE DRIVE.
3	APPROXIMATE ROUTE OF KNOWN UNDERGROUND PIPING AND INLETS. CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES TO AVOID DAMAGE DURING INSTALLATION OF NEW UNDERGROUND ELECTRICAL TO GREENHOUSE.
4	PROVIDE INTERMATIC EI600XX TIME SWITCH AND CONTROL PHOTOCELL OUTSIDE FOR EXTERIOR LIGHTING CIRCUIT.

SITE GENERAL NOTES

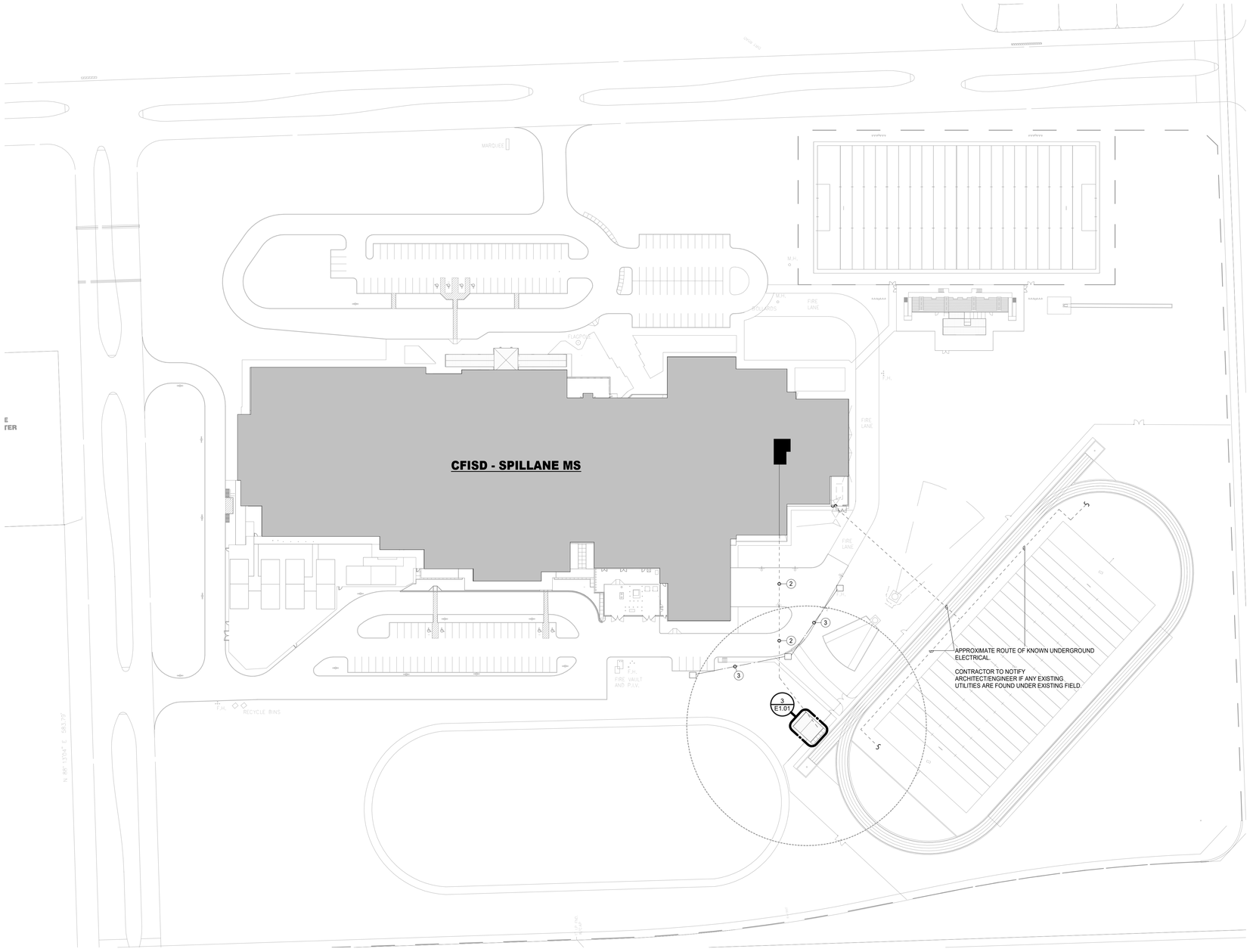
1. CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES.
2. REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER REQUIREMENTS TO BE PROVIDED BY DIVISION 26.
4. PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEY WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.



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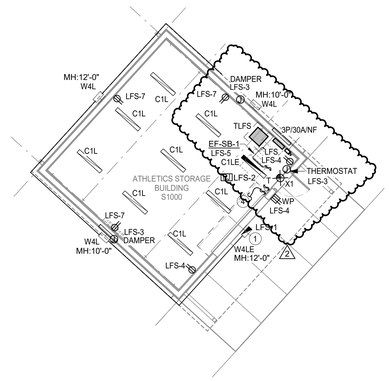
1 **ELECTRICAL SITE PLAN**
Scale: 1" = 60'-0"



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3 **ELECTRICAL FLOOR PLAN - FIELD STORAGE**
Scale: 1/8" = 1'-0"

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2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number:	23073
Date:	26 JANUARY 2025
Drawn By:	WHL / KLO

ELECTRICAL SITE PLAN

E1.01

____ of ____

ELECTRICAL KEYED NOTES

1	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
2	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
3	INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH,(1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.

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LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

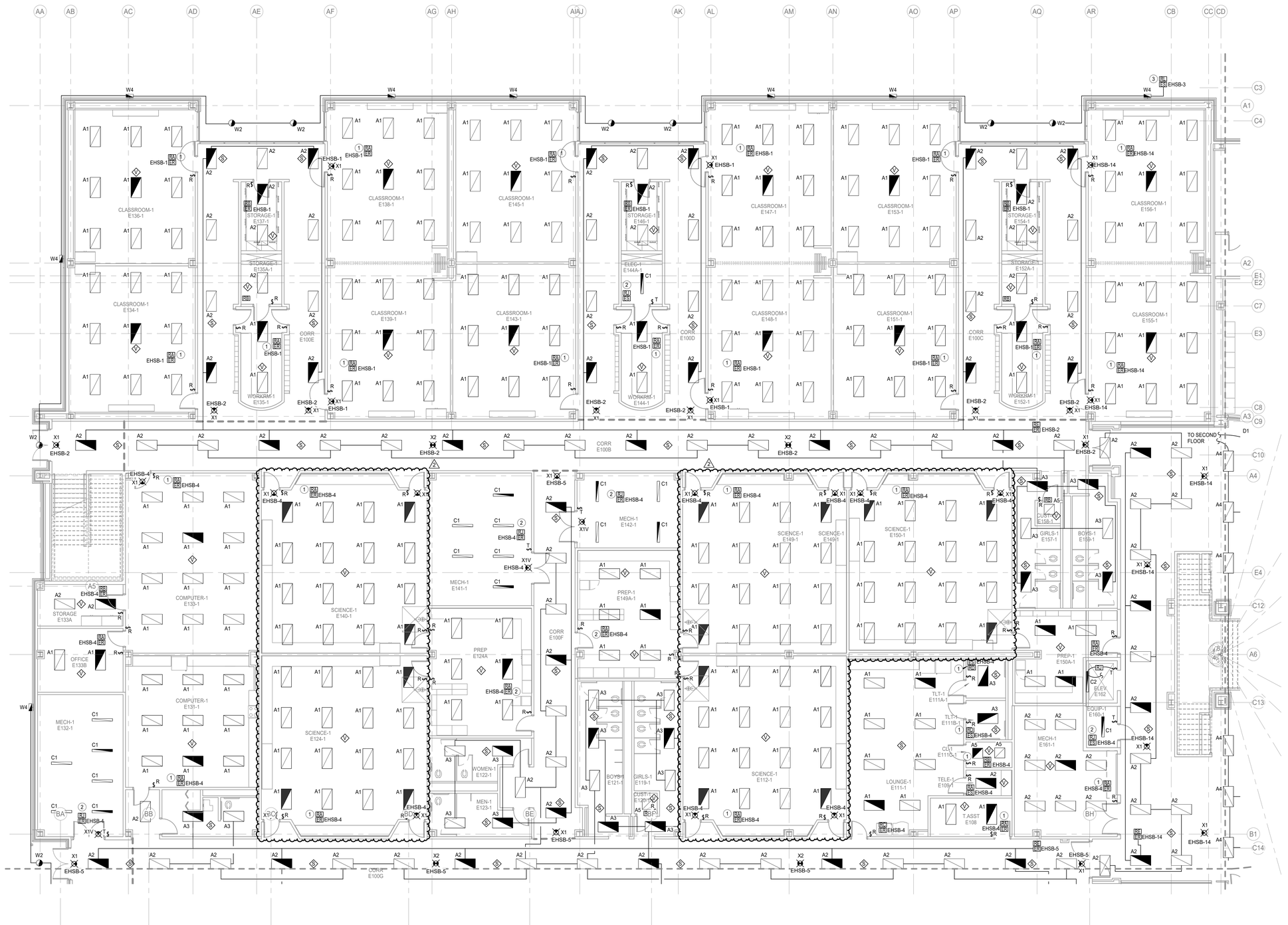
CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V. TYPICAL.
2. 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 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. 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.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.



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1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA A**
Scale: 1/8" = 1'-0"

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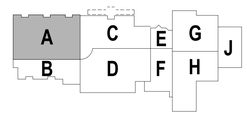
CFISD PROJECT NO: 24-02-5751-R-RFP

2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'A'

E2.01

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ELECTRICAL KEYED NOTES

1	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
2	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.

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LINE TYPE LEGEND

———	EXISTING TO REMAIN
– – – –	DISCONNECT AND REMOVE
———	NEW WORK

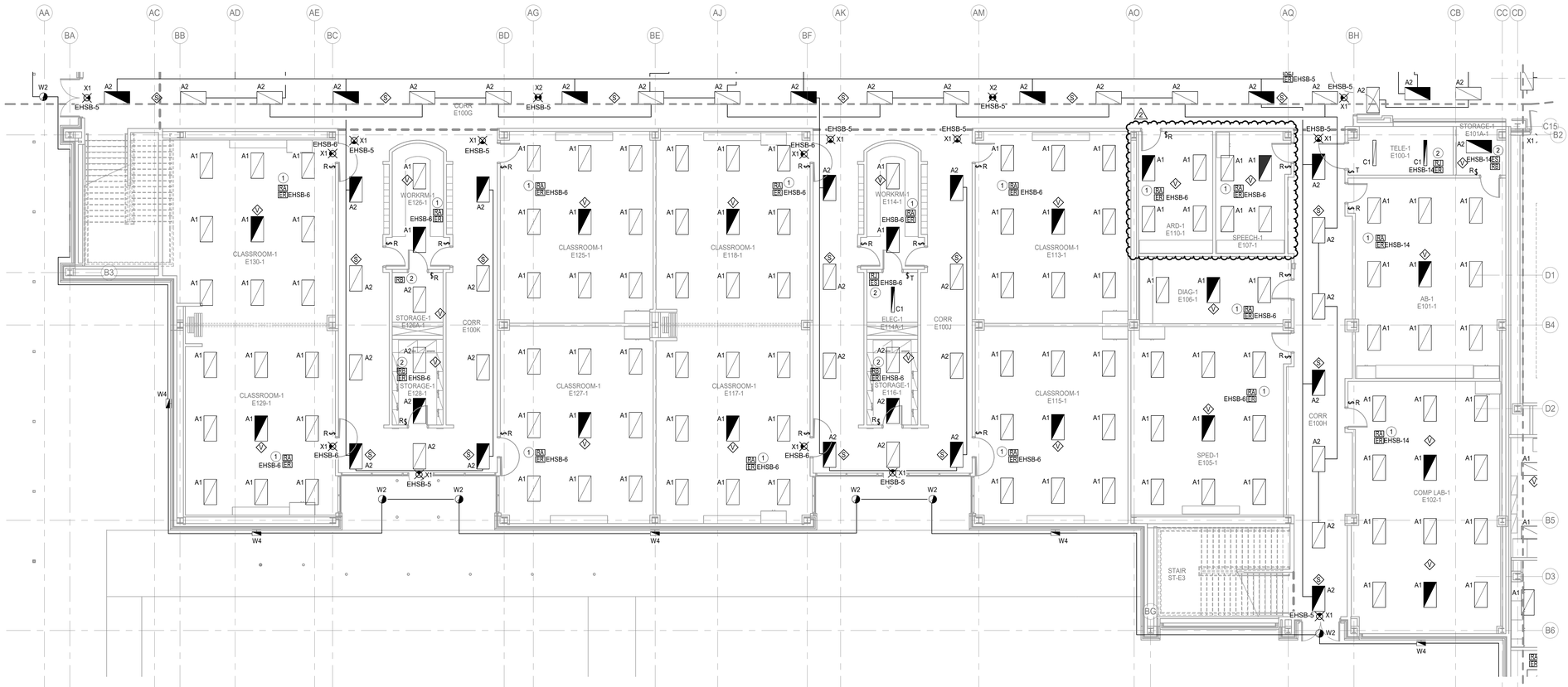
CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL.

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V. TYPICAL.
2. 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 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. 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.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.



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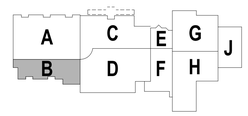
1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA B**
Scale: 1/8" = 1'-0"

KEY PLAN:



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CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'B'

E2.02

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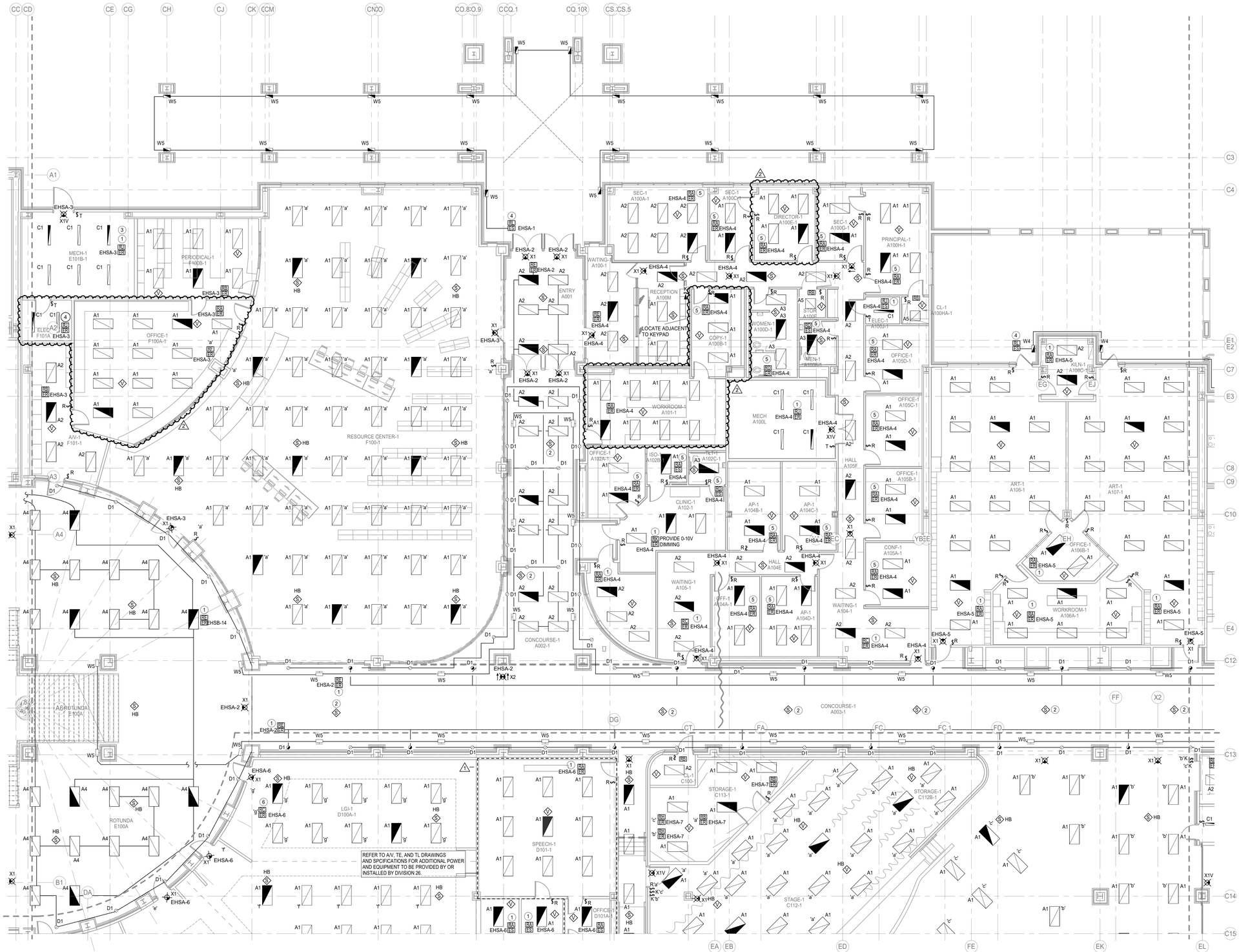
Autodesk Docs://23072_CFISD_Phase_6_/22/CFISD-SPILLANE MS_MEPT_R22.rvt



1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 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 26 05 33 CONDUIT SYSTEMS.
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4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
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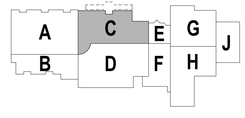
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM. CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

ELECTRICAL KEYED NOTES

1	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
2	PROVIDE WALL MOUNTED OCCUPANCY BASED SENSOR.
3	INTERCONNECT TIMER SWITCHES FOR SIMULTANEOUS OPERATION.
4	INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH,(1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD, RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
5	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
6	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING IN CORRIDOR E100L. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.

KEY PLAN:



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CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
1	Addendum 02	02-11-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'C'

E2.03

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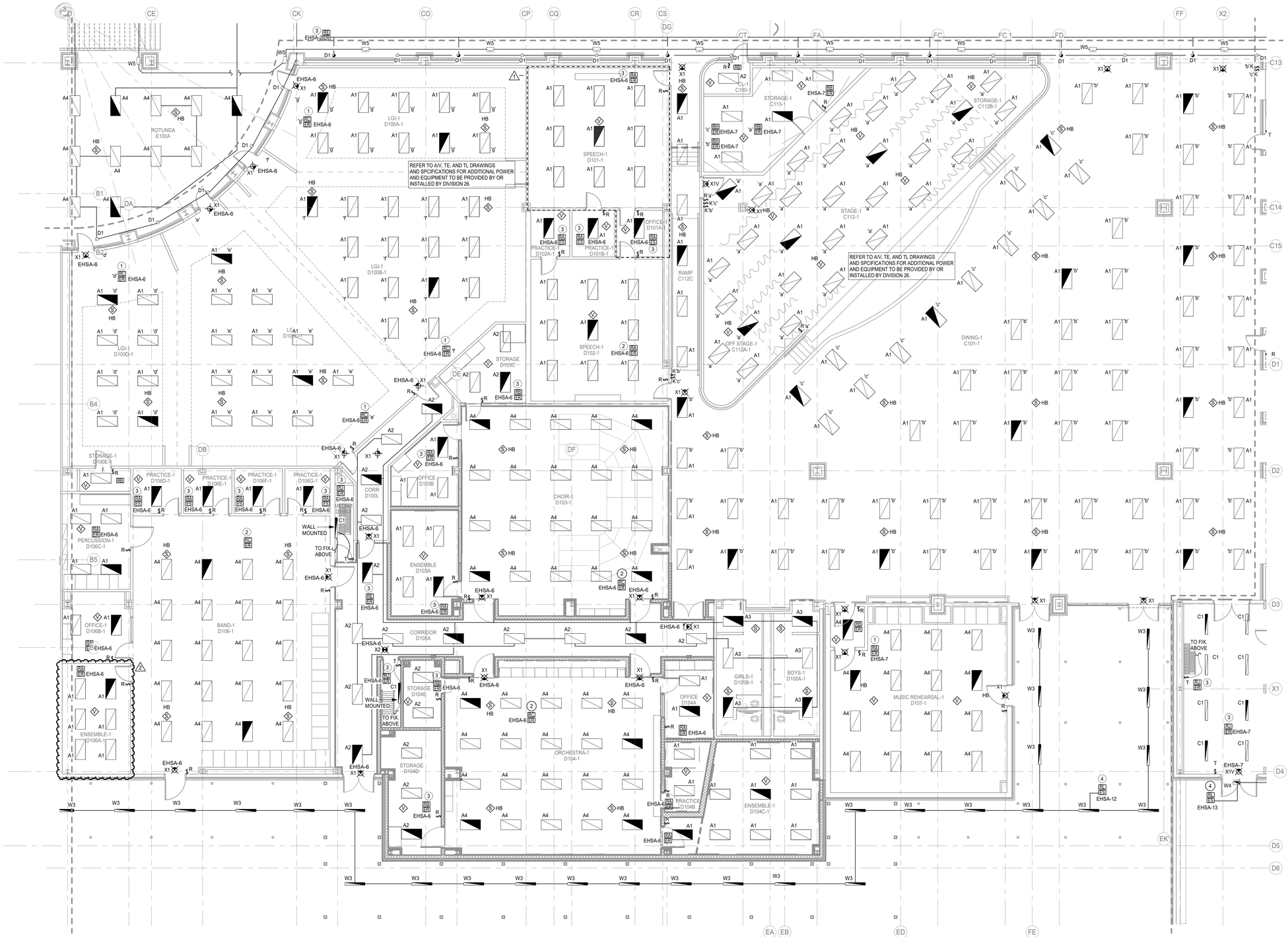

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA D**
Scale: 1/8" = 1'-0"

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

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4	INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH,(1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD, RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.

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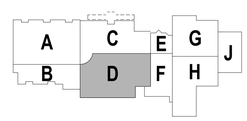

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	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'D'

E2.04

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N

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

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL.

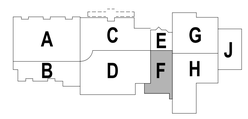
LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V. TYPICAL.
2. 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 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. 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.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

ELECTRICAL KEYED NOTES

1	LIGHTING IN COOLER / FREEZER TO BE FURNISHED WITH EQUIPMENT. FINAL CONNECTION PROVIDED BY DIVISION 26.
2	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
3	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.

KEY PLAN:



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Registration: F-4111
Project No: 2024-00209-00

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2024 SMITH & SPILLANE MS RENOVATIONS

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13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'F'

E2.06

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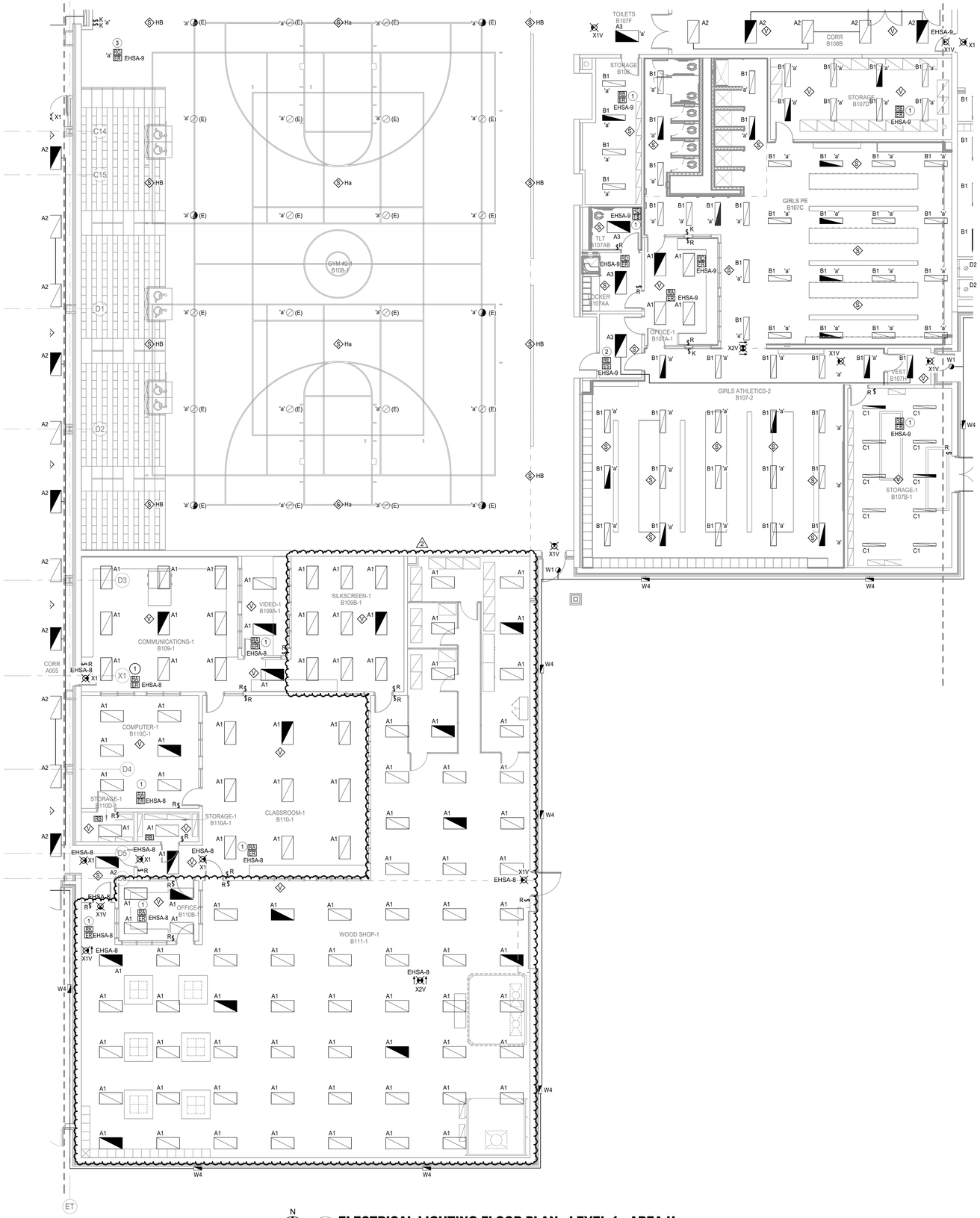

N

1 ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA H

Scale: 1/8" = 1'-0"

ELECTRICAL KEYED NOTES

1	<varies>
2	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
3	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CONCESSIONS B100A. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.

LINE TYPE LEGEND

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- - - -	DISCONNECT AND REMOVE
———	NEW WORK

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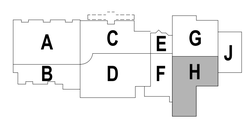

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13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL LIGHTING FIRST FLOOR PLAN - AREA 'H'

E2.08

____ of ____

2/12/2025 1:50:47 PM

ELECTRICAL KEYED NOTES

1	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
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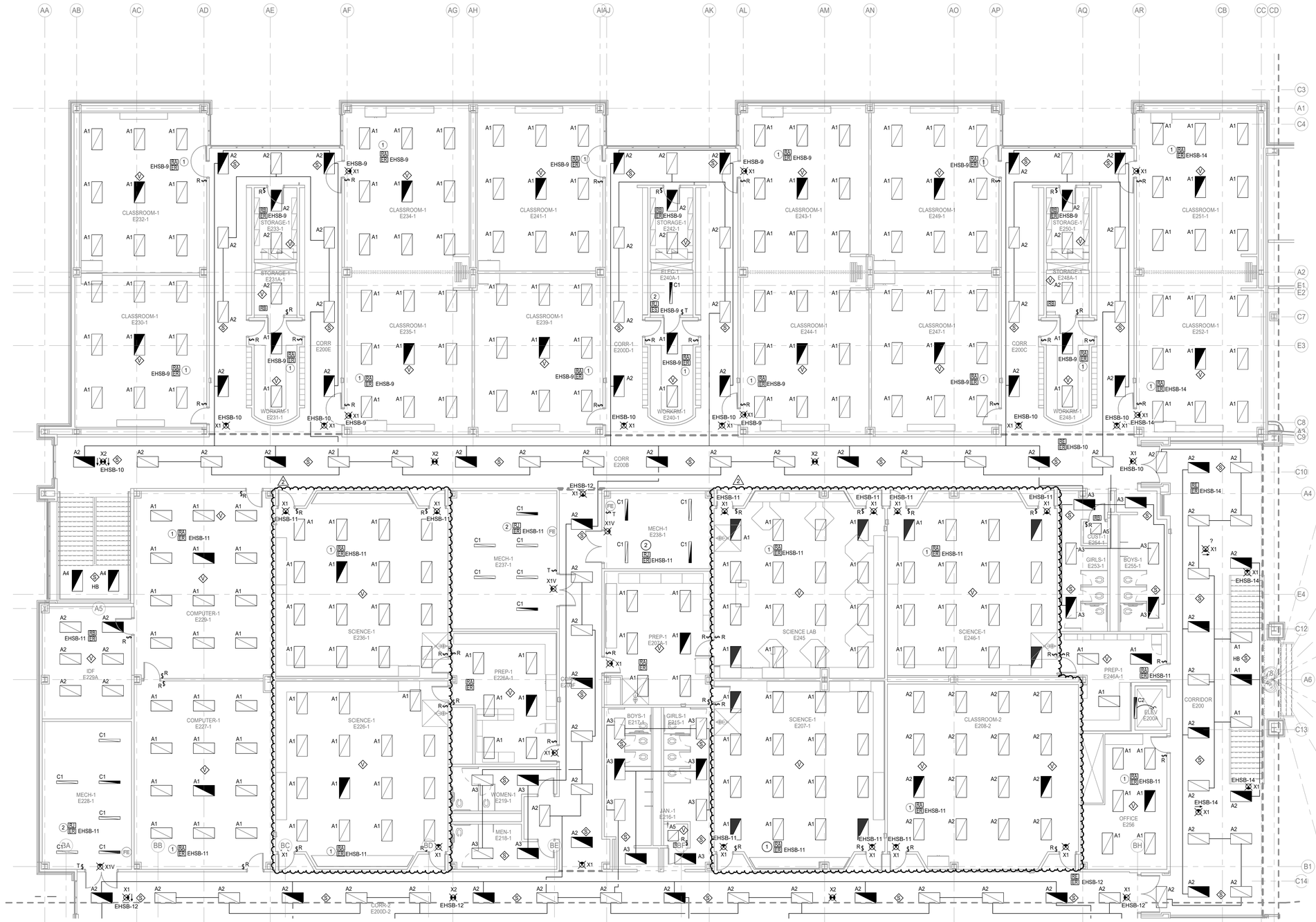

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1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA A**
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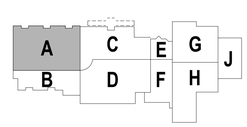

ELECTRICAL LIGHTING SECOND FLOOR PLAN - AREA 'A'

E2.10

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Autodesk Docs://23072_CFISD_Phase_6_/22/CFISD-SPILLANE MS_MEPT_R22.rvt

ELECTRICAL KEYED NOTES

1	LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
2	LOCATE DIGITAL LIGHTING CONTROLLER AND AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.

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Registration: F-4111
Project No: 2024-00209-00

LINE TYPE LEGEND

————	EXISTING TO REMAIN
– – – –	DISCONNECT AND REMOVE
————	NEW WORK

CONTRACTOR TO FIELD COORDINATE FINAL LOCATION OF ALL REPLACEMENT AND NEW LIGHTING FIXTURES WITH EXISTING CEILING MOUNTED DEVICES, AND TO NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW LIGHTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL; (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR EXTERIOR FACADE LIGHTING ON/OFF AND (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR PARKING LOT LIGHTING ON/OFF IN MAIN ELECTRICAL.

LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER 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 3500 W @ 277V. TYPICAL.
2. 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 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY 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 PANEL SERVING THE LOAD. 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.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. 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.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM, CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA B**
Scale: 1/8" = 1'-0"

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CONSTRUCTION DOCUMENT

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2024 SMITH & SPILLANE MS RENOVATIONS

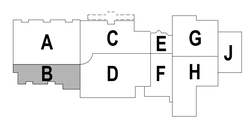
SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

Revisions / Submission

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



ELECTRICAL LIGHTING SECOND FLOOR PLAN - AREA 'B'

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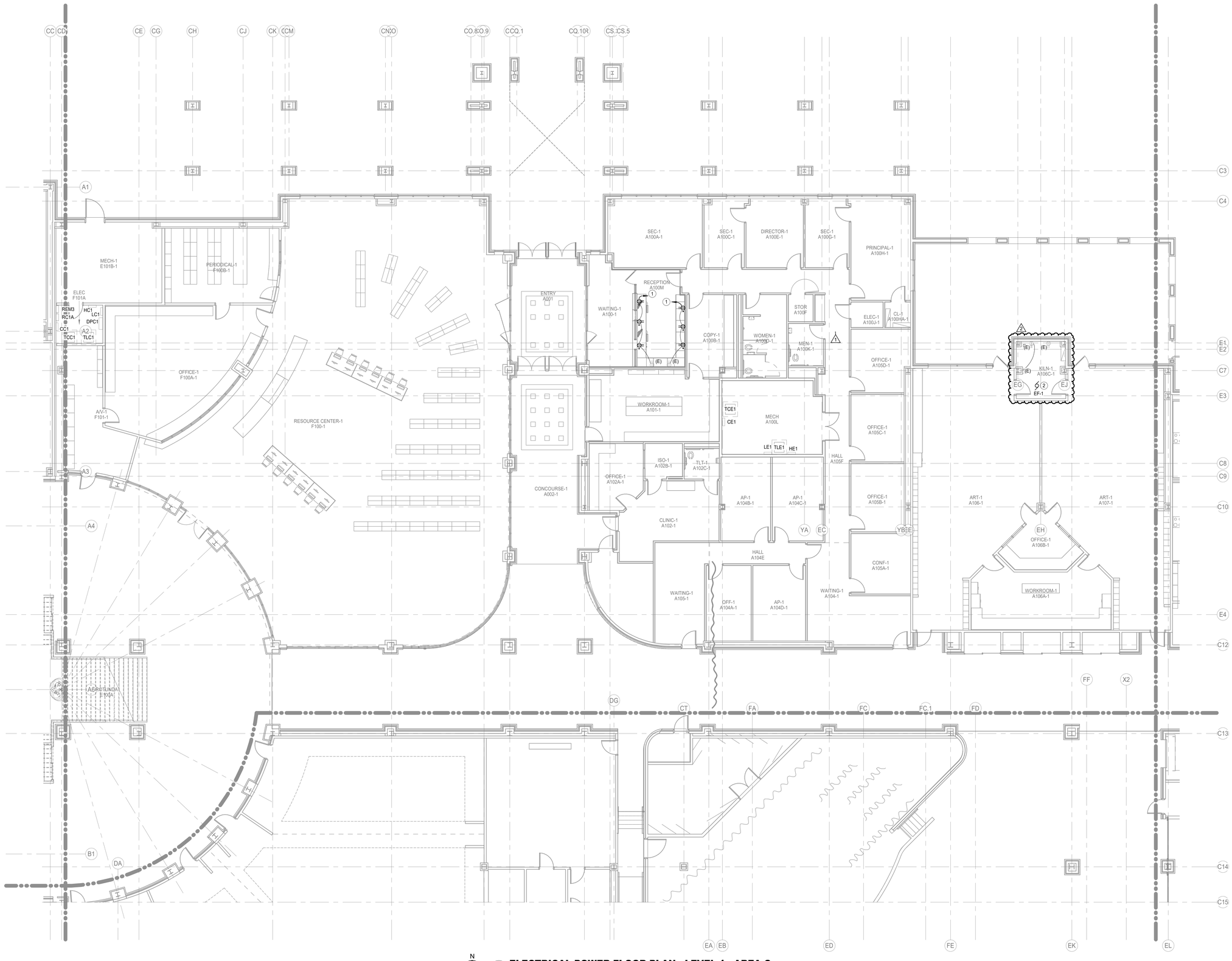

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1 **ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

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Project No: 2024-00209-00

LINE TYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

WHERE ANY 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 GYMPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

TEMOPORARILY DISCONNECT AND REMOVE ALL CEILING / WALL MOUNTED ELECTRICAL AND FIRE ALARM DEVICES FOR AREAS THAT REQUIRE CEILING / WALL REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANIAL, TECHNOLOGY, FIRE ALARM, SPRINKLERS AND PLUMBING SCOPE OF WORK. AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

WHERE ANY EXISTING JUNCTION BOX AN/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.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

POWER GENERAL NOTES

1. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATION PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.
2. 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.
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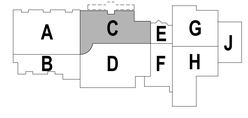
ELECTRICAL KEYED NOTES

1. PROVIDE NEW RECEPTACLES AS SHOWN AND CONNECT TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120V.
2. PROVIDE POWER TO NEW EF FROM EXISTING 208V PANEL 'LE1'. PROVIDE NEW 20A/1P BREAKER WITH #12 WIRE.

2

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
1	Addendum 02	02-11-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL POWER FIRST FLOOR PLAN - AREA 'C'

E3.03

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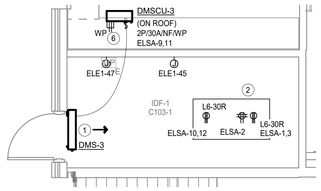

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3 ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA F - IDF-1

Scale: 1/4" = 1'-0"

FOOD SERVICE ELECTRICAL SCHEDULE

E103	JB/DS	38.7A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC; WEATHERPROOF DISCONNECT SWITCH
E103C	JB	18.3A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	2.7A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT

FOOD ESTABLISHMENT GENERAL NOTES:

1. FOOD SERVICE EQUIPMENT INSTALLATION SHALL BE IN COMPLIANCE WITH APPLICABLE BUILDING AND HEALTH CODES.

2. ALL ELECTRICAL EQUIPMENTS AND DEVICES WITHIN FOOD PREPARATION AND WAREWASH AREAS SHALL BE WEATHERPROOF OR PROVIDED WITH STAINLESS STEEL COVERS/TOPS INCLUDING ELECTRICAL PANELBOARDS.

3. LIGHTING LEVELS SHALL BE A MINIMUM 10 FOOT CANDLES 30-INCHES ABOVE FLOOR, IN WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE.

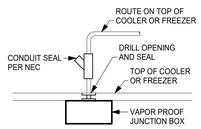
4. LIGHTING LEVELS SHALL BE A MINIMUM 20 FOOT CANDLES AT:
- A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELD-SERVICE OR WHERE FRESH PRODUCE OR PACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION.
- INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATOR.
- 30-INCHES ABOVE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE AND IN TOILET ROOMS.

5. LIGHTING LEVELS SHALL BE A MINIMUM 50 FOOT CANDLES AT ALL SURFACES OF FOOD PREPARATION AND COOKING.

4. CONTRACTOR TO SEAL ALL PENETRATIONS THRU WALK-IN COOLER / FREEZER.

PROVIDE LISTED CLASS A GFCI PROTECTION FOR PERSONNEL FOR (A) ALL SINGLE-PHASE BRANCH RECEPTACLES RATED 150 V TO GROUND OR LESS, 50A OR LESS, AND (B) ALL THREE-PHASE BRANCH RECEPTACLES RATED 150 V TO GROUND OR LESS, 100 A OR LESS LOCATED IN KITCHEN AND ALL AREAS WITH PERMANENT PROVISIONS FOR FOOD PREPARATION, COOKING, AND FOOD SERVING.

DIMENSIONS INDICATED ARE TO BE VERIFIED BY CONTRACTOR AND ADJUSTED AS REQUIRED BY FOODSERVICE EQUIPMENT AND / OR FIELD CONDITIONS.



2 COOLER/FREEZER CONDUIT PENETRATION

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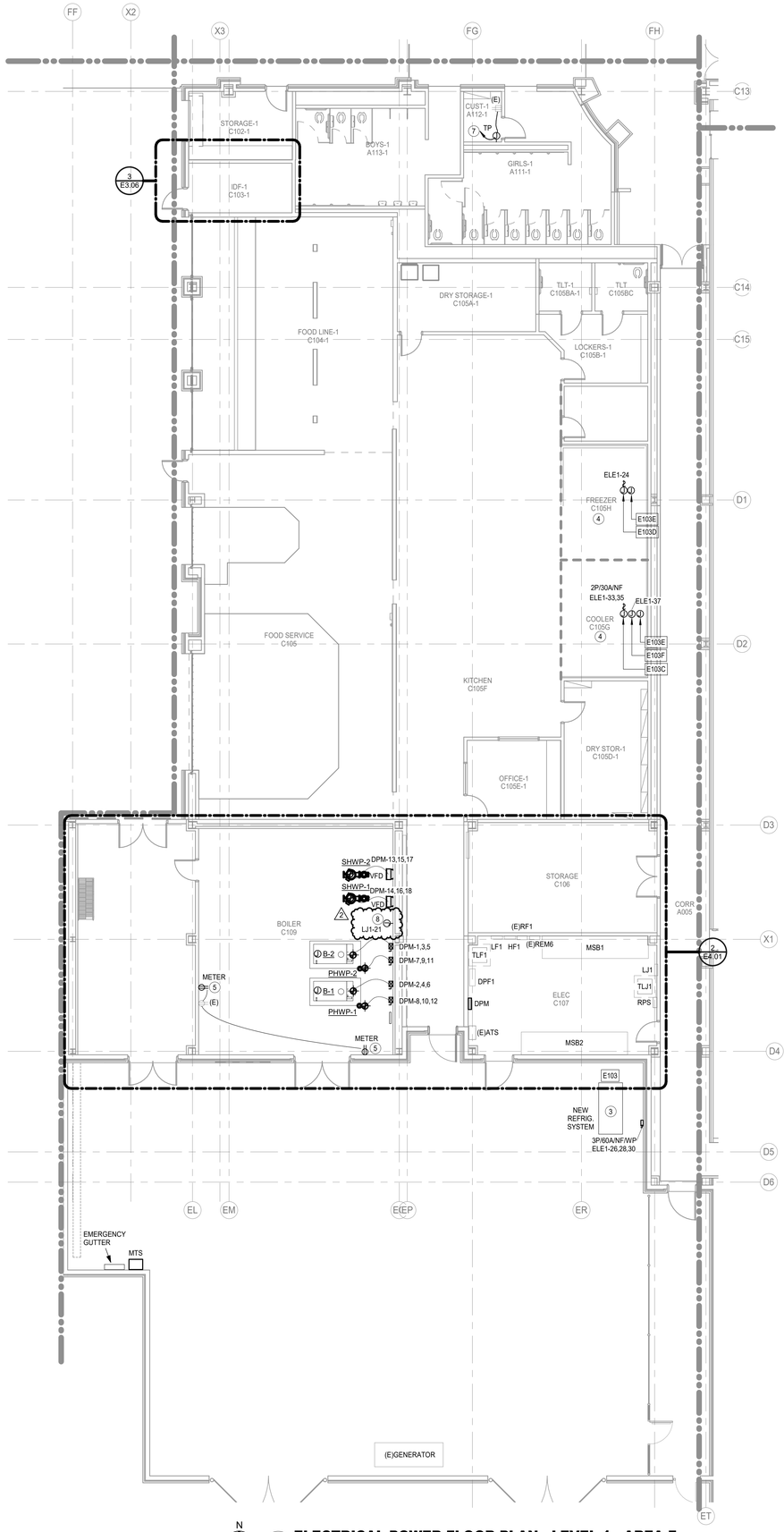

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1 ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA F

Scale: 1/8" = 1'-0"

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PROVIDE NEW POWER DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYMPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

TEMOPORARILY DISCONNECT AND REMOVE ALL CEILING / WALL MOUNTED ELECTRICAL AND FIRE ALARM DEVICES FOR AREAS THAT REQUIRE CEILING / WALL REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANIAL, TECHNOLOGY, FIRE ALARM, SPRINKLERS AND PLUMBING SCOPE OF WORK. AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

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EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

POWER GENERAL NOTES

1. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATION PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.
2. 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.
3. 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.

FOODSERVICE GENERAL NOTES

1. ACCESSORIES AND FITTINGS PROVIDED LOOSE WITH FOODSERVICE EQUIOPMENT BY SECTION 11 40 00. FIELD INSTALLED BY DIVISION 26.
2. STAINLESS STEEL DISCONNECT SWITCH PROVIDED AND INSTALLED BY DIVISION 26.
3. DOOR HEATER(S), LIGHT(S), COIL(S), AND PRESSURE RELIEF PORT(S) PRE-WIRED TO JUNCTION BOX AT TOP OF COLD STORAGE ASSEMBLY BY SECTION 11 40 00, FINAL CONNECTION BY DIVISION 26.

ELECTRICAL KEYED NOTES

1	ROUTE 3/4"C. TO ASSOCIATED OUTDOOR UNIT ON ROOF. ROUTE PARALLEL WITH REFRIGERATION LINES.
2	REFER TO DETAILS FRO RACK RECEPTACLES INSTALLATION. TYPICAL.
3	PROVIDE 1"C. FROM REFRIGERATION SYSTEM TO TEMPERATURE MONITOR PANEL.
4	LIGHTING IN COOLER / FREEZER TO BE FURNISHED WITH EQUIPMENT. FINAL CONNECTION PROVIDED BY DIVISION 26. FIELD COORDINATE EXACT LOCATION WITH CASEWORK INSTALLATION.
5	PROVIDE NEW RECEPTACLES AS SHOWN AND CONNECT TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION, EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120 V.
6	PROVIDE POWER TO NEW ROOFTOP MAINTENANCE RECEPTACLE FROM NEAREST ACCEPTABLE 120V ROOFTOP MAINTENANCE CIRCUIT. EXTEND CONDUCTORS/CONDUIT MATCHING EXISTING SIZE TO NEW RECEPTACLE. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120 V OR CONTAIN MORE THAN 8 DEVICES. IF NO ACCEPTABLE CIRCUIT IS AVAILABLE AT ROOF, PROVIDE POWER FROM NEAREST ACCEPTABLE 120V PANEL. PROVIDE NEW 20A/1P BREAKER WITH #12 WIRE TO FEED NEW RECEPTACLE.
7	PROVIDE NEW RECEPTACLES AS SHOWN AND CONNECT TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION, EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120 V.
8	FLUSH MOUNTED TRAP PRIMER. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT AND LOCATION.

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2.	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
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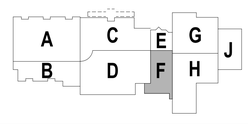
KEY PLAN:



ELECTRICAL POWER FIRST FLOOR PLAN - AREA 'F'

E3.06

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2/12/2025 1:50:56 PM

Branch Panel: LJ1 — EXISTING PANEL

Location: CORR B113 | **Supply From:** | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** EXIST. | **Enclosure:** Type 1 | **Mains:** 50A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
E	1	Receptacles	--	20 1	0.7 / 0.9			1	20 --	Receptacles	2	E
E	3	Receptacles - 110B	--	20 1		0.5 / 0.7		1	20 --	Receptacles	4	E
E	5	Receptacles	--	20 1			0.7 / 0.7	1	20 --	Receptacles	6	E
E	7	Receptacles	--	20 1	0.5 / 0.5			1	20 --	Receptacles	8	E
E	9	Receptacles	--	20 1		0.5 / 1.0		1	20 --	Receptacles - Cord Reel 110B	10	E
E	11	Receptacles	--	20 1			0.5 / 0.5	1	20 --	Receptacles	12	E
E	13	Drop Receptacles	--	20 1	1.0 / 0.9			1	20 --	Receptacles	14	E
E	15	Drop Receptacles	--	20 1		1.0 / 0.5		1	20 --	Receptacles	16	E
E	17	GUH-1	--	20 1			0.7 / 0.0	1	20 --	SPARE	18	E
	19	Boiler Controls C109	#12	20 1	0.4 / 0.4			1	20 #12	Boiler Controls C109	20	
2	21	Trap Primer BOILER C109	#12	20 1		0.2 / 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	
		Total Load:			5.3 kVA	4.5 kVA	3.2 kVA					
		Total Amps:			46 A	39 A	27 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.0 kVA	0.00%	0.0 kVA		
Receptacles	0.9 kVA	100.00%	0.9 kVA	**Total Conn. Load:**	13.0 kVA
Power	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand:**	13.0 kVA
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Current:**	36 A
Miscellaneous	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand Current:**	36 A

Existing Loads	Connected Load	Demand Factor	Estimated Demand
Existing	12.1 kVA	100.00%	12.1 kVA

Notes:
EXISTING PANEL - Total Calculated Existing Load shown in calculations.

S - EXISTING CIRCUIT RELOCATED TO LS PANEL. RELABLE CIRCUIT AS 'SPARE' IN PANEL DIRECTORY.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF...
LO - PROVIDE PERMANENT LOCK-ON...
E - EXISTING LOAD TO REMAIN

Branch Panel: ELSB — NEW PANEL

Location: PREP E124A | **Supply From:** TELSB | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 10,000 | **Enclosure:** Type 1 | **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	DMSCU-1 E100H	#10	30 2	1.1 / 0.5			2	30 #10	IDF Rack - L6-30R	2	
	3					1.1 / 0.5					4	LO
	5	Receptacle	#12	20 1			0.4 / 0.5	2	30 #10	IDF Rack - L6-30R	6	
LO	7	IDF Rack - L6-30R	#10	30 2	0.5 / 0.5						8	LO
	9					0.5 / 1.2		1	20 #10	IDF Rack - L6-20R E229A	10	LO
	11	DMSCU-2 E200G	#10	30 2			1.1 / 0.2	1	20 #12	Door Access Controls D105A	12	LO
	13				1.1 / 0.5						14	
LO	15	FACP - Red Bkr E100-1	#12	20 1		0.5 / 0.5		2	30 #10	IDF Rack - L6-30R E201-1	16	LO
LO	17	IDF Rack - L6-30R E201-1	#10	30 2			0.5 / 1.2	1	20 #8	IDF Rack - L6-20R E201-1	18	LO
	19				0.5 / 0.5			2	30 #10	IDF Rack - L6-30R E201-1	20	LO
LO	21	IDF Rack - L6-20R E201-1	#8	20 1		1.2 / 0.5					22	
	23						0.5 / 0.5	1	20 #10	SP.LER.01 D101A-1	24	
LO	25	IDF Rack - L6-30R E201-1	#10	30 2	0.5 / 0.5			1	20 #10	SP.LER.01 D101A-1	26	
	27	SP.LER.01 D101A-1	#10	20 1		0.5 / 1.2		1	20 #6	SS.LRP.01 D101A-1	28	
	29	SP.LER.01 D101A-1	#10	20 1			0.5 / 0.5	2	30 #10	IDF Rack - L6-30R E229A	30	LO
LO	31	IDF Rack - L6-30R E229A	#10	30 2	0.5 / 0.5						32	
	33					0.5 / 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	
	43	SPACE	--	-- 1	0.0 / 0.0			1	20 --	SPARE	44	
	45	SPACE	--	-- 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:			7.1 kVA	8.2 kVA	5.8 kVA					
		Total Amps:			61 A	70 A	48 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	4.2 kVA	100.00%	4.2 kVA		
Receptacles	16.8 kVA	79.69%	13.4 kVA	**Total Conn. Load:**	21.0 kVA
				Total Est. Demand:	17.6 kVA
				Total Conn. Current:	58 A
				Total Est. Demand Current:	49 A

Notes:

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

Branch Panel: LB1 — EXISTING PANEL

Location: | **Supply From:** | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** Exist. | **Enclosure:** Type 1 | **Mains:** 225A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
E	1	Existing Receptacles	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	2	E
E	3	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	4	E
E	5	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Receptacles	6	E
E	7	Existing Receptacles	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	8	E
E	9	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	10	E
E	11	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Receptacles\EF-1C	12	E
E	13	Existing Receptacles	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	14	E
E	15	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	16	E
E	17	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing EDFs	18	E
E	19	Existing Vending Machine	--	20 1	0.0 / 0.0			1	20 --	Existing Vending Machine	20	E
E	21	Existing Vending Machine	--	20 1		0.0 / 0.0		1	20 --	Existing Vending Machine	22	E
E	23	Existing Refrigerator	--	20 1			0.0 / 0.0	1	20 --	Existing Refrigerator	24	E
E	25	Existing Microwave	--	20 1	0.0 / 0.0			1	20 --	Existing EF-6B\EF-7B	26	E
E	27	Existing Appliance	--	20 1		0.0 / 0.0		1	20 --	Existing Disposer	28	E
E	29	Existing Appliance	--	20 1			0.0 / 0.0	1	20 --	Existing EF-8B	30	E
E	31	Existing Appliance	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	32	E
E	33	Existing Hand Dryer	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	34	E
E	35	Existing Hand Dryer	--	20 1			0.0 / 0.0	1	20 --	Existing Receptacles	36	E
E	37	Existing Hand Dryer	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	38	E
E	39	Existing Hand Dryer	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	40	E
E	41	Existing Microwave	--	20 1			0.0 / 0.0	1	20 --	Existing Receptacles	42	E
E	43	Existing Receptacles\BF-1	--	20 1	0.0 / 0.0			1	20 --	Existing Refrigerator	44	E
E	45	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	46	E
E	47	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Receptacles	48	E
E	49	Existing Receptacles	--	20 1	0.0 / 0.0			1	20 --	Existing Appliance	50	E
E	51	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	52	E
E	53	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Appliance	54	E
E	55	Existing Appliance	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	56	E
E	57	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Projector	58	E
E	59	Existing Appliance	--	20 1			0.0 / 0.4	1	20 #12	Maint. Receptacle E100H, E200G	60	
E	61	Existing Receptacles	--	20 1	0.0 / 0.0			1	20 --	Existing Projector	62	E
E	63	Existing Receptacles	--	20 1		0.0 / 0.0		1	20 --	Existing Refrigerator	64	E
E	65	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Hand Dryer	66	E
E	67	Existing Dishwasher	--	20 1	0.0 / 0.0			1	20 --	Existing Hand Dryer	68	E
E	69	Existing Proj. Screen	--	20 1		0.0 / 0.0		1	20 --	Existing Hand Dryer	70	E
E	71	Existing Receptacles	--	20 1			0.0 / 0.0	1	20 --	Existing Hand Dryer	72	E
	73				0.0 / 0.0						74	
E	75	Existing Range	--	60 2		0.0 / 0.0		2	20 --	Existing Dryer	76	E
E	77	Existing Proj. Screen	--	20 1			0.0 / 0.0	1	20 --	Existing Washer	78	E
E	79	Existing Dryer	--	20 1	0.0 / 0.0			1	20 --	Existing Receptacles	80	E
E	81	Existing Projector	--	20 1		0.0 / 0.0		1	20 --	Existing Receptacles	82	E
	83	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	84	
		Total Load:			24.6 kVA	24.6 kVA	24.9 kVA					
		Total Amps:			205 A	205 A	208 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.0 kVA	0.00%	0.0 kVA		
Receptacles	0.4 kVA	100.00%	0.4 kVA	**Total Conn. Load:**	74.1 kVA
Power	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand:**	74.1 kVA
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Current:**	206 A
Miscellaneous	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand Current:**	206 A

Existing Loads	Connected Load	Demand Factor	Estimated Demand
Existing	73.7 kVA		73.7 kVA

Notes:
EXISTING PANEL - Total Calculated Existing Load shown in calculations.

S - EXISTING CIRCUIT RELOCATED TO LS PANEL. RELABLE CIRCUIT AS 'SPARE' IN PANEL DIRECTORY.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF...
LO - PROVIDE PERMANENT LOCK-ON...
E - EXISTING LOAD TO REMAIN

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-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(B) FOR DETAILS.

Branch Panel: LD2 — NEW PANEL

Location: MECH. MEZZ D202 | **Supply From:** TLD2 | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 18,000 | **Enclosure:** Type 1 | **Mains:** 250A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacle C112-1	#10	20 1	0.7 / 0.5			1	20 #12	SP.LER.01 C113-1	2	
	3	SP.LER.01 C113-1	#12	20 1		0.5 / 0.5		1	20 #12	SP.LER.01 C113-1	4	
	5						3.0 / 1.7				6	
	7	SP.LRP.01 C113-1	ONE LINE	100 3	3.0 / 1.7			3	20 #10	ETC Prodigy Hoist Assembly	8	
	9					3.0 / 1.7					10	
	11	Projector C101-1	#8	20 1			1.2 / 0.5	1	20 #12	Receptacles	12	
	13	Receptacles	#10	20 1	0.7 / 0.7			1	20 #12	Receptacle	14	
	15	Receptacle	#10	20 1		1.1 / 0.7		1	20 #12	Receptacle	16	
	17	Receptacles D104D	#12	20 1			0.5 / 0.7	1	20 #12	Receptacles D104E	18	
	19	Receptacles, GFCI Receptacle	#12	20 1	0.7 / 0.2			1	20 #12	Receptacles	20	
	21	Receptacles D103-1	#12	20 1		0.2 / 1.2		1	20 #10	SF-4D	22	
	23	Receptacle C101-1	#12	20 1			0.4 / 1.1	1	20 #12	Receptacles , Receptacle D103B	24	
	25	Receptacle, Receptacles , D103-1	#12	20 1	0.9 / 0.2			1	20 #12	Local Speakers ORCHESTRA-1 D104-1	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	20 --	SPARE	34	
	35	SPACE	--	-- 1			0.0 / 0.0	1	20 --	SPARE	36	
	37	SPARE	--	20 1	0.0 / 0.0						38	
	39	SPARE	--	20 1		0.0 / 0.0		3	30 --	SPDL	40	
	41	SPARE	--	20 1			0.0 / 0.0				42	
		Total Load:			9.3 kVA	8.8 kVA	9.1 kVA					
		Total Amps:			78 A	74 A	76 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1.2 kVA	100.00%	1.2 kVA		
Receptacles	26.1 kVA	69.19%	18.0 kVA	**Total Conn. Load:**	27.3 kVA
				Total Est. Demand:	19.2 kVA
				Total Conn. Current:	76 A
				Total Est. Demand Current:	53 A

Notes:

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

Branch Panel: LFS — NEW PANEL

Location: ATHLETICS STORAGE... | **Supply From:** TLFS | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 10,000 | **Enclosure:** Type 1 | **Mains:** 60A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
PH	1	Exterior Lighting	#12	20 1	0.0 / 0.3			1	20 #12	Lighting	2	
	3	Receptacles ATHLETICS STORAGE BUILDING...	#12	20 1		0.5 / 0.5		1	20 #12	Receptacles , GFCI Receptacle S1000,	4	
	5	EF-SB-1 S1000	#12	20 1			1.2 / 0.0	1	-- --	SPACE	6	
	7	Receptacles S1000	#12	20 1	0.5 / 0.0			1	-- --	SPACE	8	
	9	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	10	
	11	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	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	
		Total Load:			0.8 kVA	1.1 kVA	1.2 kVA					
		Total Amps:			7 A	9 A	10 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1.2 kVA	100.00%	1.2 kVA		
Lighting	0.3 kVA	125.00%	0.4 kVA	**Total Conn. Load:**	3.1 kVA
Receptacles	1.6 kVA	100.00%	1.6 kVA	**Total Est. Demand:**	3.2 kVA
				Total Conn. Current:	9 A
				Total Est. Demand Current:	9 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
PH - CONTROLLED VIA PHOTOCELL

Branch Panel: LG2 — NEW PANEL

Location: MECH. MEZZ-1 G200-1 | **Supply From:** TLG2 | **Mounting:** Surface | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 10,000 | **Enclosure:** Type 1 | **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
C	1	Circulating Fan	#10	20 1	0.7 / 0.7			1	20 #10	Circulating Fan	2	C
C	3	Circulating Fan	#10	20 1		0.7 / 0.7		1	20 #10	Circulating Fan	4	C
C	5	Circulating Fan B107-1	#10	20 1			0.7 / 0.7	1	20 #10	Circulating Fan	6	C
C	7	Circulating Fan	#10	20 1	0.7 / 0.7			1	20 #10	Circulating Fan	8	C
LF	9	Hand Dryer	#10	30 1		1.5 / 1.5		1	30 #10	Hand Dryer	10	LF
LF	11	Hand Dryer	#8	30 1			1.5 / 1.5	1	30 #8	Hand Dryer	12	LF
	13	Receptacle	#12	20 1	0.4 / 0.4			1	20 #12	Receptacle	14	
	15	Receptacle	#12	20 1		0.4 / 0.4		1	20 #12	Receptacle	16	
	17	Receptacle	#12	20 1			0.4 / 0.4	1	20 #12	Receptacle	18	
	19	Receptacle B107-1	#12	20 1	0.4 / 0.4			1	20 #12	Receptacle B107-1	20	
	21	Receptacle B107-1	#12	20 1		0.4 / 0.4		1	20 #12	Receptacle B107-1	22	
	23	EF-2G B101E	#12	20 1			0.5 / 0.5	1	20 #12	EF-2H B107F	24	
LF	25	Trap Primer B101B-1	#12	20 1	0.2 / 0.2			1	20 #12	Trap Primer B107B-1	26	LF
	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	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						38	
	39	SPARE	--	20 1		0.0 / 0.0		3	30 --	SPDL	40	
	41	SPARE	--	20 1			0.0 / 0.0				42	
		Total Load:			4.7 kVA	5.9 kVA	6.2 kVA					
		Total Amps:			39 A	51 A	53 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1.0 kVA	100.00%	1.0 kVA		
Receptacles	15.7 kVA	81.81%	12.9 kVA	**Total Conn. Load:**	16.7 kVA
				Total Est. Demand:	13.9 kVA
				Total Conn. Current:	46 A
				Total Est. Demand Current:	38 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
C - CONTROLLED VIA CONTACTOR

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Project No: 2024-00209-00

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CONSTRUCTION DOCUMENT

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
02-11-2025

CIVIL ENGINEER
BROOKS AND SPARKS, INC.
21020 PARK ROW
KATY, TX 77449
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MEPT ENGINEER
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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
1	Addendum 02	02-11-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

ELECTRICAL PANEL SCHEDULES

E5.02

____ of ____

TECHNOLOGY LEGEND - 27 10 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*#	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V#	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D#	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*#	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

AUDIO/VIDEO LEGEND - 27 41 16.10

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP	WALL MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD	INTERACTIVE VIDEO DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
(RS)	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND - 27 41 16.20

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
(H)	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND - 27 50 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
(S)	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
(S2)	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
(S3)	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
(S4)	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
(S5)	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
(S6)	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
(S7)	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER	CEILING	CONTRACTOR PROVIDED	
(#)IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
(C)	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
(C2)	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
LMB	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

ACCESS CONTROL LEGEND - 28 10 00 & 28 10 00.05

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM. CONTROL PANEL	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *DEFAULT INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
SS	NETWORK SIREN STROBE	CEILING MOUNTED UNO		NOTE #4

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND - 28 20 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
VRS	VIDEO RECORDING SERVER			
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5
	SYMBOL INDICATED THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND - 28 31 00

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
	CEILING MOUNTED MOTION DETECTOR	CEILING		
	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM - 28 46 00

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL
RPS	EXISTING FIRE ALARM SYSTEM REMOTE POWER SUPPLIES. LOCATIONS DETERMINED FROM AS BUILD DRAWINGS. CONTRACTOR TO FIELD VERIFY.

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WM'	DEVICE IS TO BE WALL MOUNTED.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

TECH DEMO PLAN GENERAL NOTES

A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.

B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
1) FIRE ALARM
2) INTERCOM
3) STRUCTURED CABLING
4) INTRUSION DETECTION
5) ACCESS CONTROL
6) AUDIO VIDEO
7) VIDEO SURVEILLANCE
TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
1) FIRE ALARM DEVICES
2) INTERCOM DEVICES
3) WIRELESS ACCESS POINTS
4) TELEPHONES
5) VIDEO SURVEILLANCE CAMERAS
6) INTRUSION DETECTION DEVICES
7) ACCESS CONTROL DEVICES
8) VIDEO PROJECTION DEVICES
9) VIDEO DISPLAY DEVICES
ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.

D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES; SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

F ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITH IN ANY DEVICES; SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

G ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

H ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.

I REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.

J **TOPCAT LIGHTSPEED LOCAL SOUND SPEAKERS SHALL BE BAGGED AND SUSPENDED, IN THE CEILING DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO NOT VOID THE WARRANTY.**

TOPCAT LIGHTSPEED SPEAKER, BASE STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM

K CONTRACTOR TO COORDINATE WITH CFISD TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDER IN ORDER TO PREVENT VOID OF WARRANTY.

L ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH. PATCH WALL TO MATCH EXISTING.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6/6A STRUCTURED CABLING SYSTEM (SCS)	✓			
AUDIO DISTRIBUTION SYSTEM - SPECIAL SPACE		✓		SEE NOTE 4.
AUDIO DISTRIBUTION SYSTEM - INSTRUCTIONAL SPACE	✓			
FLAT PANEL DISPLAYS	✓			
FLAT PANEL DISPLAY MOUNTS	✓			
INTERACTIVE DISPLAYS	✓			
INTERACTIVE DISPLAY MOUNTS	✓			
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		✓		
→NETWORK SWITCHES	✓			
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT	✓			
→ VOIP TELEPHONES	✓			
→ WIRELESS ACCESS POINTS	✓			
→ UNINTERRUPTIBLE POWER SUPPLIES (UPS)	✓			
RACEWAY: CONDUIT, BACK BOXES, ETC.		✓		SEE NOTE 1.
LOW VOLTAGE: RACEWAY, SLEEVES		✓		SEE NOTE 1.
STRUCTURED CABLING: RACEWAY, SLEEVES	✓			SEE NOTE 5.
ELECTRICAL POWER		✓		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		✓		
INTRUSION DETECTION SYSTEM		✓		
DOOR ACCESS VIDEO INTERCOM SYSTEM		✓		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→VSS SERVERS		✓		
→VSS CAMERAS		✓		
→VSS PROGRAMMING		✓		
→VSS CABLING	✓			SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		✓		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

RESPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.
3. BY DIVISION 11.
4. IF SYSTEM REQUIRES NETWORK SWITCH IT SHALL BE OFOI. CONTRACTOR TO COORDINATE WITH OWNER.
5. CORES AND SLEEVES FOR STRUCTURED CABLING WILL BE OWNER FURNISHED, OWNER INSTALLED. NOT TO BE USED BY ANY OTHER TRADE.

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CONSTRUCTION DOCUMENT

BRADLEY KALMANS 80219 LICENSED ARCHITECT
02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
1	Addendum 02	02-11-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY NOTES & LEGENDS

T0.00

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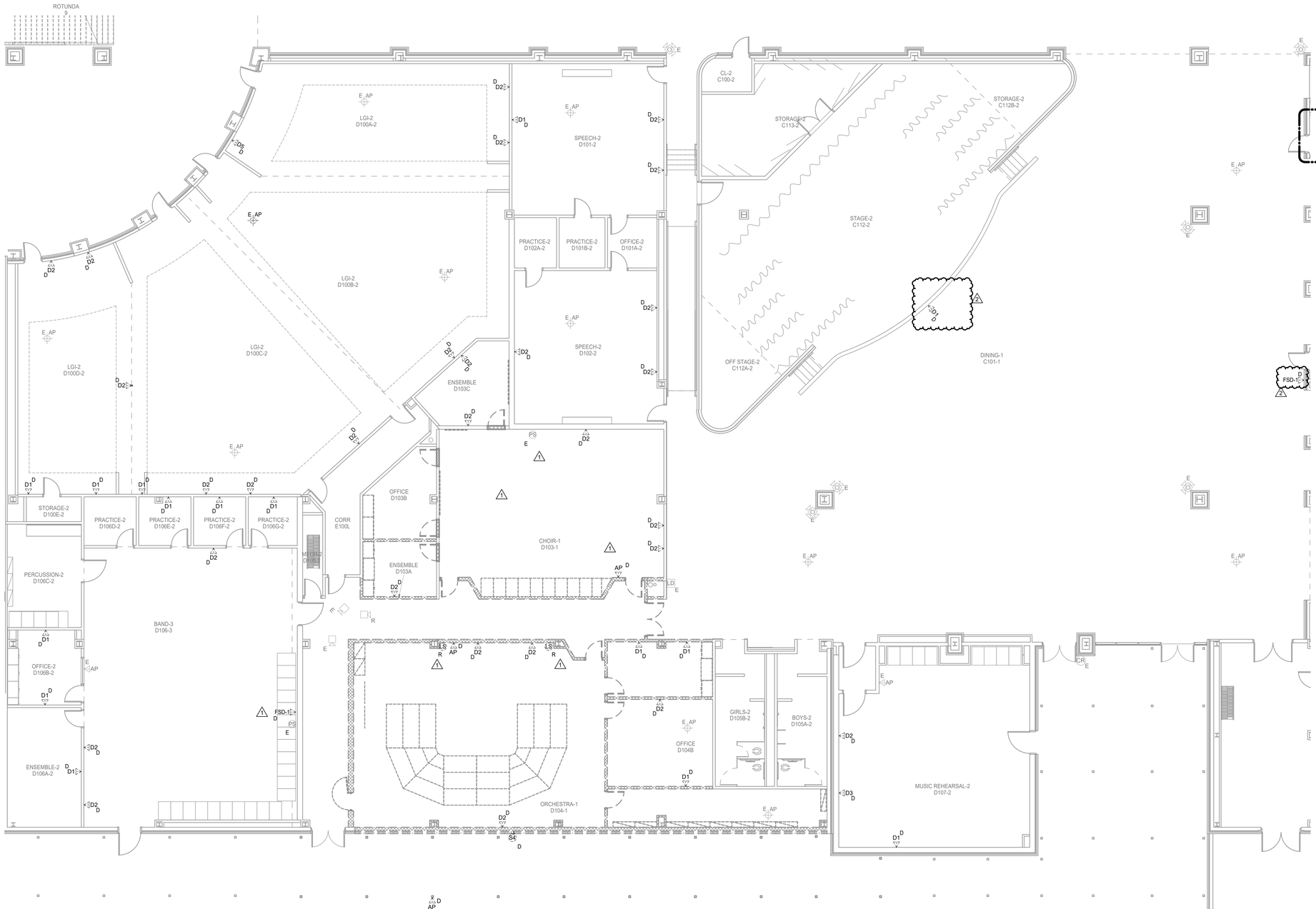

N

1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D

Scale: 1/8" = 1'-0"

TECH DEMO PLAN GENERAL NOTES

A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.

B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
1) FIRE ALARM
2) INTERCOM
3) STRUCTURED CABLING
4) INTRUSION DETECTION
5) ACCESS CONTROL
6) AUDIO/VIDEO
7) VIDEO SURVEILLANCE
TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
1) FIRE ALARM DEVICES
2) INTERCOM DEVICES
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6) INTRUSION DETECTION DEVICES
7) ACCESS CONTROL DEVICES
8) VIDEO PROJECTION DEVICES
9) VIDEO DISPLAY DEVICES
ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.

D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES; SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

F ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITH IN ANY DEVICES; SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

G ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

H ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.

I REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.

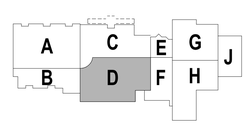
J TOPCAT LIGHTSPEED LOCAL SOUND SPEAKERS SHALL BE BAGGED AND SUSPENDED IN THE CEILING DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO NOT VOID THE WARRANTY.

TOPCAT LIGHTSPEED SPEAKER, BASE STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM

K CONTRACTOR TO COORDINATE WITH CFISD TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDER IN ORDER TO PREVENT VOID OF WARRANTY.

L ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH. PATCH WALL TO MATCH EXISTING.

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02.14.25
1	Addendum 02	02.11.25
	Revisions / Submission	

Project Number: 23073
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TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA 'D'

T0.04

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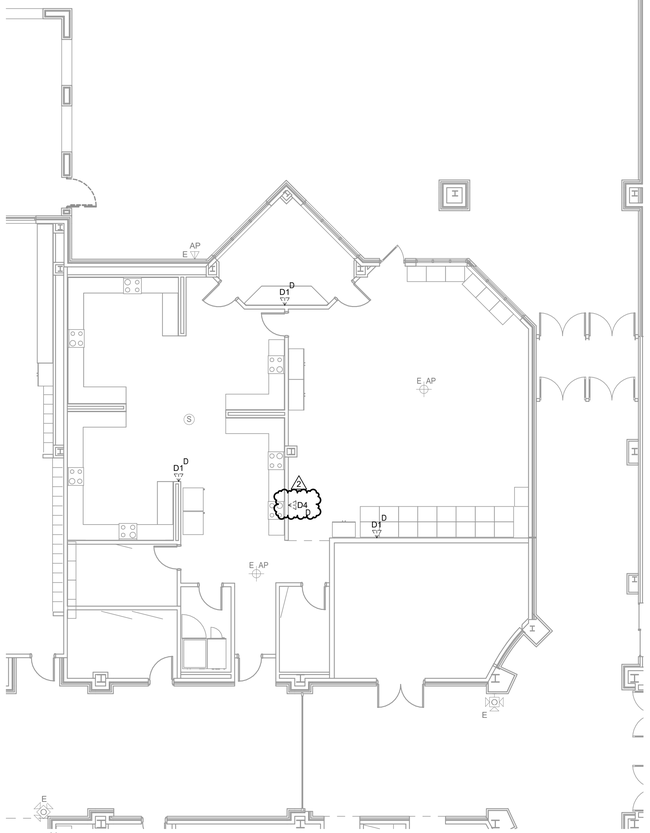

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1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA E
SCALE: 1/8" = 1'-0"

TECH DEMO PLAN GENERAL NOTES

A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.

B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
1) FIRE ALARM
2) INTERCOM
3) STRUCTURED CABLING
4) INTRUSION DETECTION
5) ACCESS CONTROL
6) AUDIO VIDEO
7) VIDEO SURVEILLANCE
TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
1) FIRE ALARM DEVICES
2) INTERCOM DEVICES
3) WIRELESS ACCESS POINTS
4) TELEPHONES
5) VIDEO SURVEILLANCE CAMERAS
6) INTRUSION DETECTION DEVICES
7) ACCESS CONTROL DEVICES
8) VIDEO PROJECTION DEVICES
9) VIDEO DISPLAY DEVICES
ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.

D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES; SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

F ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITH IN ANY DEVICES; SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

G ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

H ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.

I REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.

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L ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH. PATCH WALL TO MATCH EXISTING.

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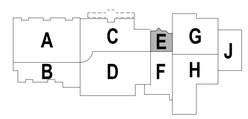

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2 Addendum 03 02-14-25
Revisions / Submission

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA 'E'

T0.05

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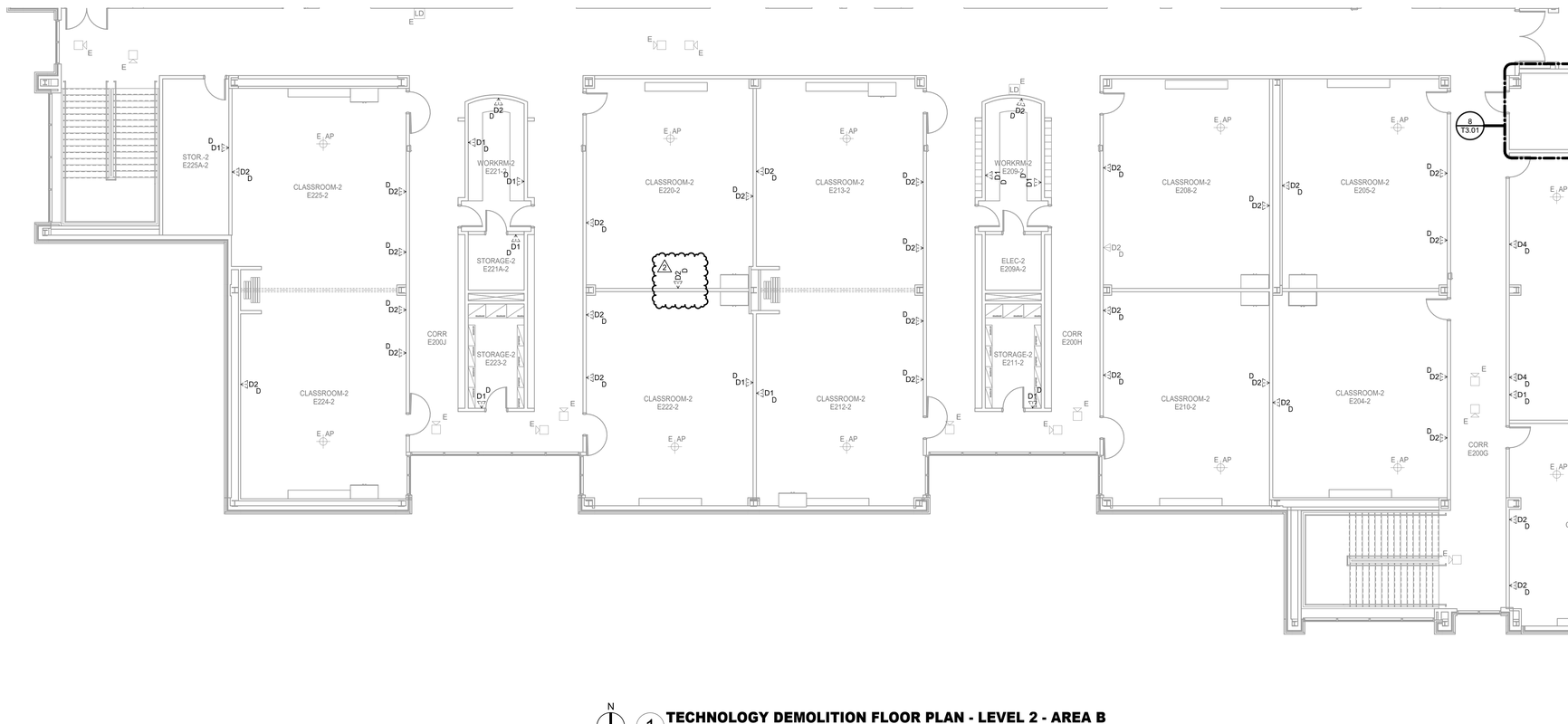

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1 **TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 2 - AREA B**

Scale: 1/8" = 1'-0"

TECH DEMO PLAN GENERAL NOTES

A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.

B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO;
1) FIRE ALARM
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4) INTRUSION DETECTION
5) ACCESS CONTROL
6) AUDIO VIDEO
7) VIDEO SURVEILLANCE

TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

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4) TELEPHONES
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9) VIDEO DISPLAY DEVICES

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D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES, SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

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G ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

H ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.

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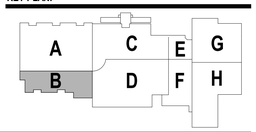
K CONTRACTOR TO COORDINATE WITH CFISD TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDER IN ORDER TO PREVENT VOID OF WARRANTY.

L CONTRACTOR SHALL FIELD VERIFY ALL SECONDARY CLOCK LOCATIONS. REMOVE ALL SECONDARY CLOCKS. PROVIDE NEW CLOCKS IN RECEPTION, CAFETERIA, LIBRARY, GYMS AND CLINIC IN THE SAME LOCATIONS. RETURN ALL OTHER SECONDARY CLOCKS TO OWNER. HEAD END MASTER CLOCK IS TO BE REPLACED. CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PATCH AND PAINT INSTRUCTIONS.

M ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH. PATCH WALL TO MATCH EXISTING.

N DEMOLISHED WORKSTATION OUTLETS THAT ONLY CONTAIN VOICE SHALL HAVE CABLING DEMOLISHED AND RECIEVE A NEW CONTRACTOR PROVIDED BLANK FACEPLATE UNLESS NOTED OTHERWISE. THIS SHALL EXCLUDE VOICE OUTLETS BEING USED FOR LIFE SAFTEY PURPOSES.

KEY PLAN:



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2024 SMITH & SPILLANE MS RENOVATIONS

SMITH MIDDLE SCHOOL

10300 WARNER SMITH BLVD., CYPRESS, TEXAS 77433
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
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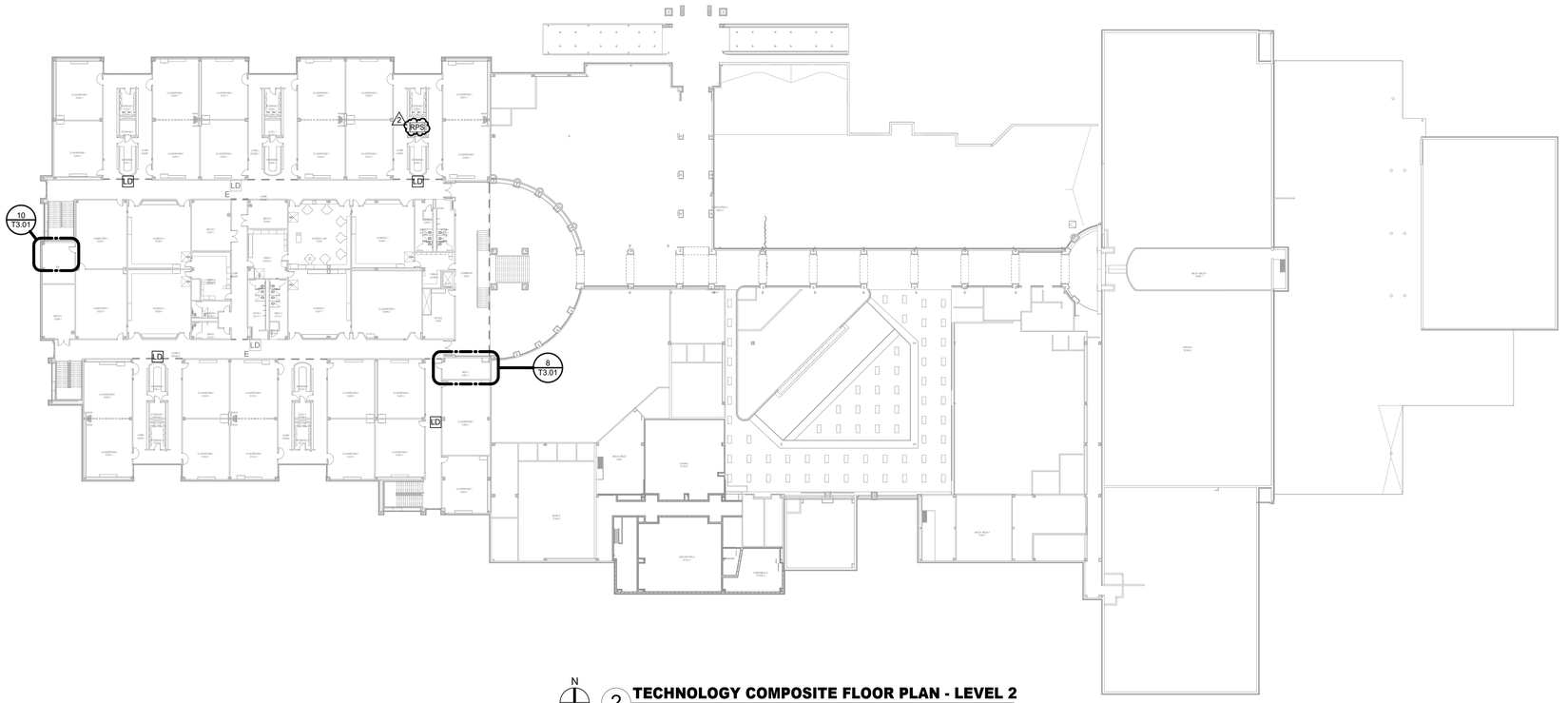
Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY DEMOLITION SECOND FLOOR PLAN - AREA 'B'

T0.11

____ of ____



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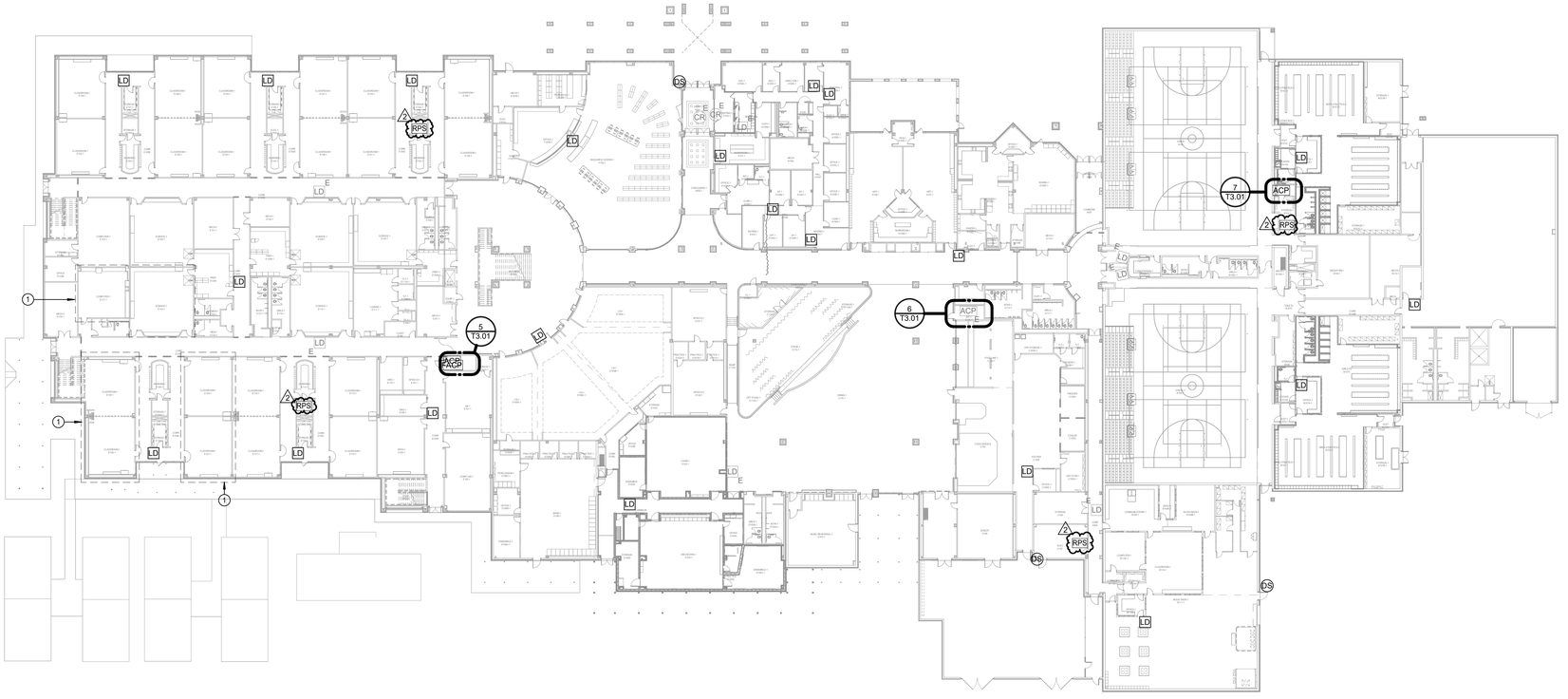
2 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 2

Scale: 1" = 30'-0"



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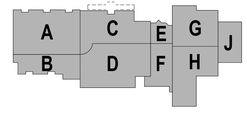
1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1

Scale: 1" = 30'-0"

TECH COMPOSITE KEY NOTES

1	INDICATES DEAF EDUCATION CLASSROOMS. EXISTING INTERCOM STROBE LIGHTS ARE TO REMAIN. EXISTING STROBES AND WIRING SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.

KEY PLAN:



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Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY COMPOSITE FLOOR PLANS

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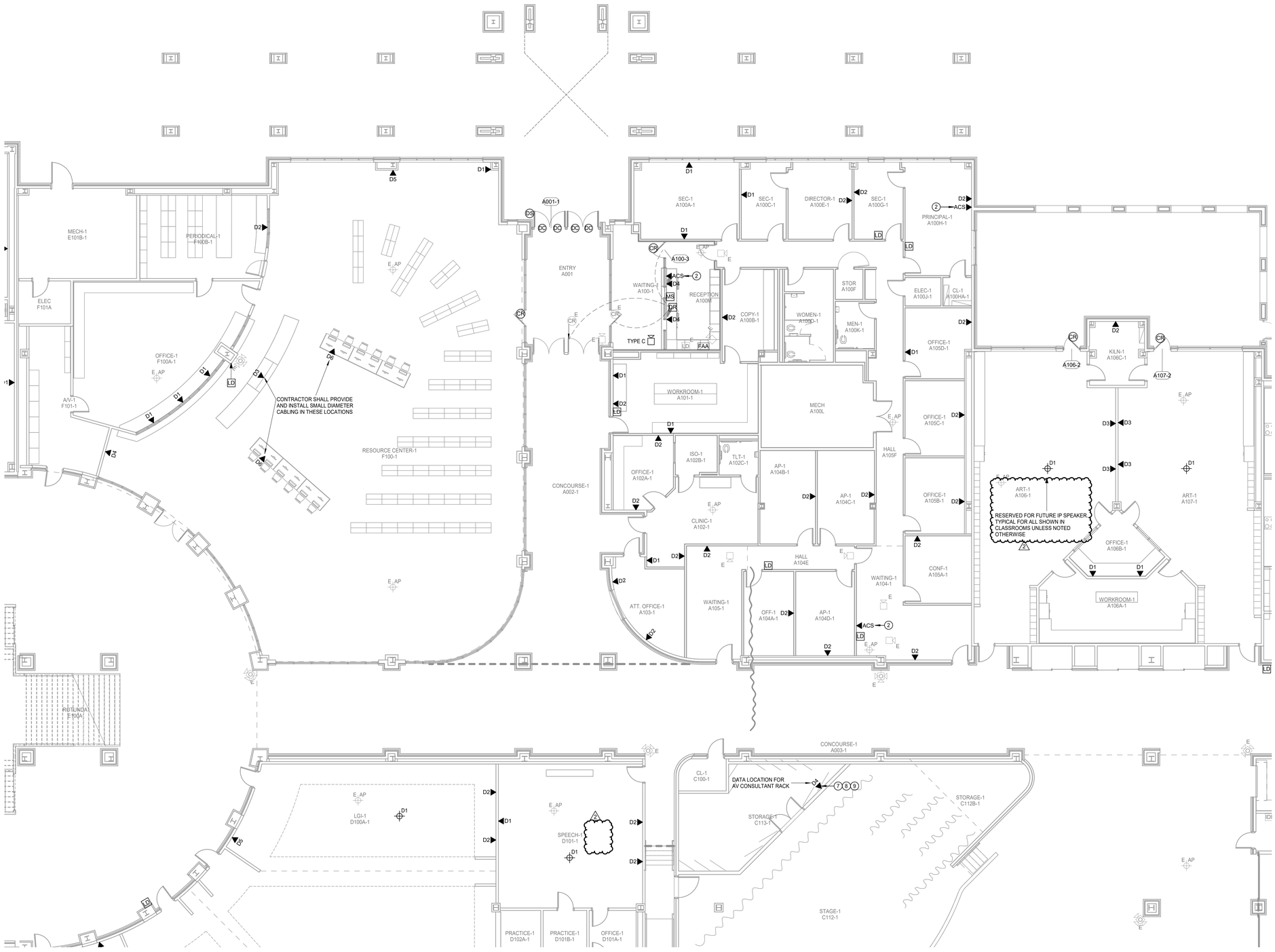


1 **TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

FIRE ALARM

A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.
C	REFERENCE MECHANICAL PLANS FOR AHU LOCATIONS.

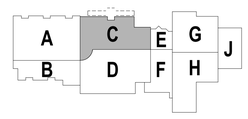
TECHNOLOGY PLAN GENERAL NOTES

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 PLANS, 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.
G	NEW DATA CABLING IN EXISTING CLASSROOMS SHALL REUSE EXISTING DATA CABLING RACEWAY AND BACKBOXES. CONTRACTOR TO PROVIDE AND INSTALL NEW FACEPLATES.
H	DATA CABLING TO MECHANICAL ROOMS SHALL BE REPLACED ONE TO ONE. CONTRACTOR TO REUSE EXISTING RACEWAY AND BACKBOXES. PROVIDE AND INSTALL NEW FACEPLATES.

TECHNOLOGY PLAN KEYED NOTES

1	INDICATED NETWORK CONNECTION IS RESERVED FOR DEAF EDUCATION PROGRAM LED INDICATOR. CONTRACTOR TO COORDINATE EXISTING LOCATION.
2	EXISTING DEAF EDUCATION PROGRAM DEVICES AND WIRING ARE EXISTING TO REMAIN AND SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
3	INTERCOM SYSTEM DEVICE CABLING SHALL BE HOME RUN TO INTERCOM SYSTEM HEAD END LOCATED IN ELEC A100J.
4	THE DESIGNATED TELEPHONE OUTLET SHALL BE RESERVED FOR THE ELEVATOR EMERGENCY CALL. CONTRACTOR TO ROUTE A CABLE FROM THE NEAREST MDF/IDF, TO THE ELEVATOR CONTROL EQUIPMENT. TERMINATE THE CABLE AT THE ELEVATOR CONTROL EQUIPMENT AND CROSS-CONNECT TO THE ELEVATOR TELEPHONE TRAVEL CABLE. COORDINATE EXACT LOCATION, TERMINATION, AND CROSS-CONNECT WITH THE ELEVATOR INSTALLER.
5	COORDINATE ALL REQUIREMENTS AND FINAL LOCATION WITH ELEVATOR INTEGRATOR PRIOR TO INSTALLATION.
6	DATA OUTLET DEDICATED FOR EMPLOYEE TIME-IN/TIME-OUT TO BE MOUNTED 48"-A.F.F. COORDINATE LOG ACCESS RIGHTS WITH OWNER PRIOR TO PROGRAMMING.
7	NETWORK OUTLET RESERVED FOR AV SYSTEM HEAD END RACK. COORDINATE WITH AV CONSULTANT DRAWINGS ON FINAL AV RACK LOCATION.
8	FIRE ALARM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
9	INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
10	NETWORK OUTET RESERVED FOR COOLER AND FREEZER MONITORING.

KEY PLAN:



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Project No: 2024-00209-00

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CONSTRUCTION DOCUMENT

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02-14-2025

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2024 SMITH & SPILLANE MS RENOVATIONS

SPILLANE MIDDLE SCHOOL

13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02-14-25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

TECHNOLOGY FIRST FLOOR PLAN - AREA 'C'

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TECHNOLOGY PLAN KEYED NOTES

1	INDICATED NETWORK CONNECTION IS RESERVED FOR DEAF EDUCATION PROGRAM LED INDICATOR. CONTRACTOR TO COORDINATE EXISTING LOCATION.
2	EXISTING DEAF EDUCATION PROGRAM DEVICES AND WIRING ARE EXISTING TO REMAIN AND SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
3	INTERCOM SYSTEM DEVICE CABLING SHALL BE HOME RUN TO INTERCOM SYSTEM HEAD END LOCATED IN ELEC A100J.
4	THE DESIGNATED TELEPHONE OUTLET SHALL BE RESERVED FOR THE ELEVATOR EMERGENCY CALL. CONTRACTOR TO ROUTE A CABLE FROM THE NEAREST MDF/IDF, TO THE ELEVATOR CONTROL EQUIPMENT. TERMINATE THE CABLE AT THE ELEVATOR CONTROL EQUIPMENT AND CROSS-CONNECT TO THE ELEVATOR TELEPHONE TRAVEL CABLE. COORDINATE EXACT LOCATION, TERMINATION, AND CROSS-CONNECT WITH THE ELEVATOR INSTALLER.
5	COORDINATE ALL REQUIREMENTS AND FINAL LOCATION WITH ELEVATOR INTEGRATOR PRIOR TO INSTALLATION.
6	DATA OUTLET DEDICATED FOR EMPLOYEE TIME-IN/TIME-OUT TO BE MOUNTED 48"-A.F.F. COORDINATE LOG ACCESS RIGHTS WITH OWNER PRIOR TO PROGRAMMING.
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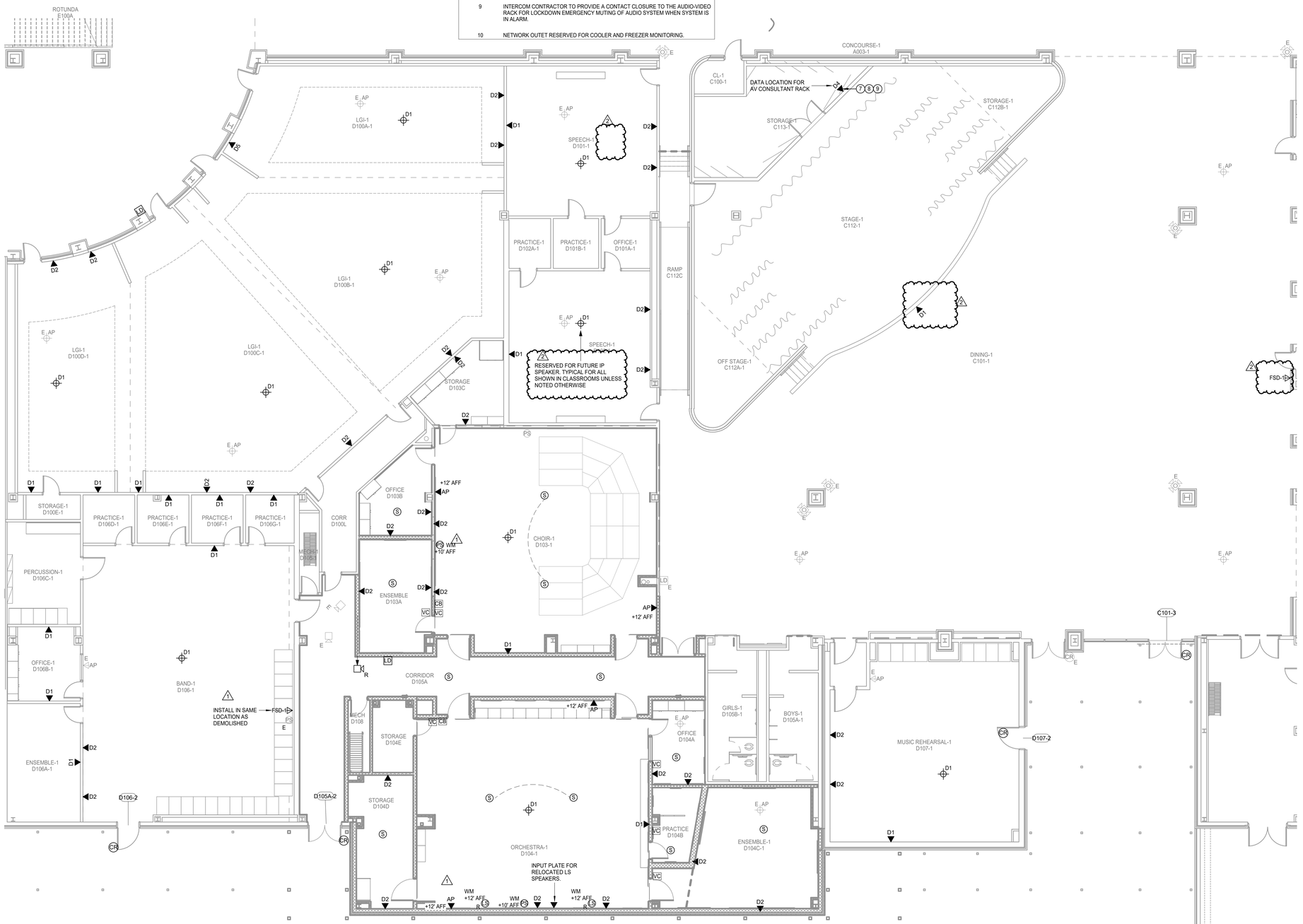
10	NETWORK OUTET RESERVED FOR COOLER AND FREEZER MONITORING.

FIRE ALARM

A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.
C	REFERENCE MECHANICAL PLANS FOR AHU LOCATIONS.

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 PLANS, 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.
G	NEW DATA CABLING IN EXISTING CLASSROOMS SHALL REUSE EXISTING DATA CABLING RACEWAY AND BACKBOXES. CONTRACTOR TO PROVIDE AND INSTALL NEW FACEPLATES.
H	DATA CABLING TO MECHANICAL ROOMS SHALL BE REPLACED ONE TO ONE. CONTRACTOR TO REUSE EXISTING RACEWAY AND BACKBOXES. PROVIDE AND INSTALL NEW FACEPLATES.



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1 **TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA D**
Scale: 1/8" = 1'-0"

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2024 SMITH & SPILLANE MS RENOVATIONS

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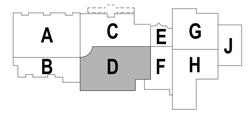
13403 WOODS-SPILLANE BLVD, CYPRESS, TX 77429
CFISD PROJECT NO: 24-02-5751-R-RFP

2	Addendum 03	02.14.25
1	Addendum 02	02.11.25
	Revisions / Submission	

Project Number: 23073
Date: 26 JANUARY 2025
Drawn By: WHL / KLO

KEY PLAN:



TECHNOLOGY FIRST FLOOR PLAN - AREA 'D'

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Autodesk Docs://23072_CFSID_Phase_6_r22/CFISD-SPILLANE MS_MEPT_R22.rvt

FIRE ALARM

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C	REFERENCE MECHANICAL PLANS FOR AHU LOCATIONS.

TECHNOLOGY PLAN GENERAL NOTES

A	COORDINATE ALL FINAL MOUNTING HEIGHTS. FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
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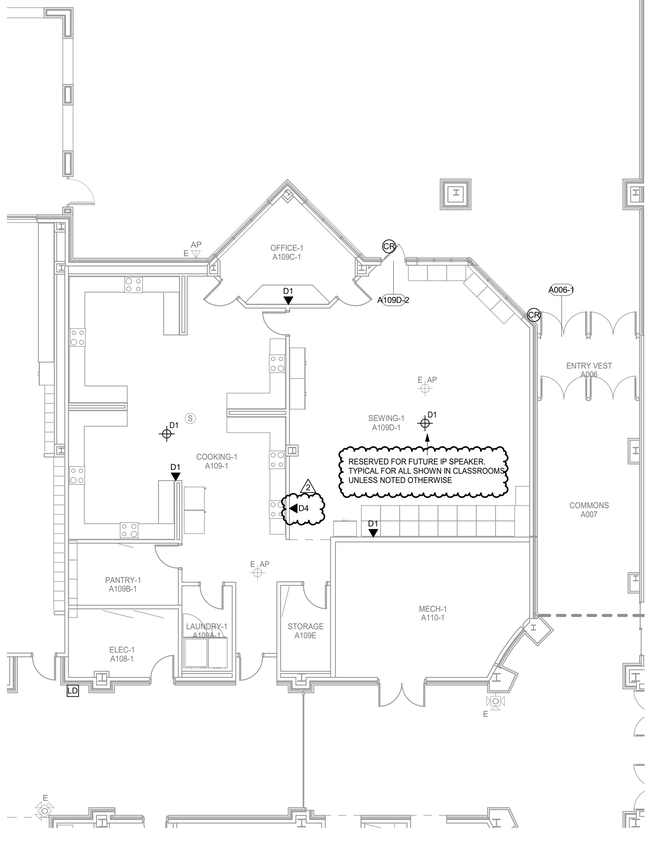

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1 **TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA E**
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CONSTRUCTION DOCUMENT

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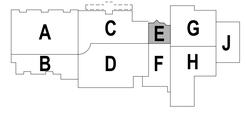

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Project Number: 23073
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TECHNOLOGY FIRST FLOOR PLAN - AREA 'E'

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