ADDENDUM NO. 4

November 25, 2025

THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL
5910 Central Ave.
Portage, IN 46368

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 28, 2025, by Fanning Howey Associtate, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 4-1 through ADD 4-3, and attached Addendum No. 4 from Fanning Howey Associates, Inc., dated November 24, 2025, and consisting of 6 pages, revised Specification Sections 26 05 43 - Underground Ducts and Raceways for Electrical Systems, 26 27 26 - Wiring Devices, 26 56 68 - Exterior Athletic Lighting, 28 31 11 - Digital, Addressable Fire-Alarm System, 31 20 00 - Earthwork, and 33 46 00 - Subdrainage; 1 new drawing sheet, and 107 revised drawing sheets.

A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.03 Bid Categories

A. BID CATEGORY NO. 1 - BUILDING DEMOLITION

1. **REVISE:**

Clarification No. 2:
The **Bid Category No. 1 Contractor** shall demolish all buildings on site, including coordination of all utility disconnects, cutting and capping utilities within 5 feet of each building, and removal of all materials per Specification Sections 02 41 13 – Selective Site Demolition and 02 41 16 – Structure Demolition. This contractor shall backfill all building foundations to the elevation of 638.5 and coordinate all utility disconnects and demolition scheduling with the Construction Manager. The **Bid Category No. 2 Contractor** shall perform all site-related demolition outside the building footprints, including sidewalks, curbs, pavements, trees, landscaping, site utilities, and other miscellaneous features. Utilities outside the building limits shall be removed to the nearest main disconnect, valve, or utility main, as applicable. Coordination with the City of Portage Public Works and Engineering Departments and all public utility providers (gas, electric, water, and communications) is required. All remaining demolition items shall be removed and disposed of in accordance with contract documents.

B. BID CATEGORY NO. 2 - SITE/UTILITIES PAVING

1. **REVISE:**

Clarification No. 8:
The **Bid Category No. 1 Contractor** shall demolish all buildings on site, including coordination of all utility disconnects, cutting and capping utilities within 5 feet of each building, and removal of all materials per Specification Sections 02 41 13 – Selective Site Demolition and 02 41 16 – Structure Demolition. This contractor shall backfill all building foundations to the elevation of 638.5 and coordinate all utility disconnects and demolition scheduling with the Construction Manager. The **Bid Category No. 2 Contractor** shall perform all site-related demolition outside the building footprints, including sidewalks, curbs, pavements, trees, landscaping, site utilities, and other miscellaneous features. Utilities outside the building limits shall be removed to the nearest main disconnect, valve, or utility main, as applicable. Coordination with the City of Portage Public Works and Engineering Departments and all public utility providers (gas, electric, water, and communications) is required. All remaining demolition items shall be removed and disposed of in accordance with contract documents.

2. **ADD:**

Clarification No. 13:
The **Bid Category No. 2 Contractor** shall provide the premanufactured shelter as indicated in Note 20 on Sheet C501 along with all labor, materials, and associated work necessary for a complete and compliant installation.

Clarification No. 14:
The **Bid Category No. 2 Contractor** shall provide all required insulation and firestopping at the head of their respective wall types for any walls terminating at the deck.

C. BID CATEGORY NO. 3 - GENERAL TRADES

1. **DELETE:**

Specification Section 08 16 13 - Fiberglass Doors

G. BID CATEGORY NO. 7 - ALUMINUM ENTRANCES/GLAZING

1. **ADD:**

Specification Section 08 16 13 - Fiberglass Doors

O. BID CATEGORY NO. 15 - ELECTRICAL/TECHNOLOGY

1. **ADD:**

Clarification No. 8:
The **Bid Category No. 15 Contractor** shall provide all work related to the exterior scoreboard, including all concrete work required for a complete installation.

Clarification No. 9:
The **Bid Category No. 15 Contractor** shall provide any grounding or bonding associated with site fencing.

B. SPECIFICATION SECTION 01 21 00 - ALLOWANCES

Under 3.01 Product Allowance

1. ADD:

A. The **Bid Category No. 15 – Electrical Contractor** is to include $75,000 to provide all work associated with the Electronic Programmable Sign Panel shown on Drawing C513.

A D D E N D U M N O. 4

The New Wallace Aylesworth Middle School

Portage Township School
Portage, Indiana

Project No. 223047.01

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Addendum No. 4, 26 items, 6 pages
Revised Project Manual Sections: 26 05 43 – Underground Ducts and Raceways for Electrical Systems, 26 27 26 – Wiring Devices, 26 56 68 – Exterior Athletic Lighting, 28 31 11 – Digital, Addressable Fire-Alarm System, 31 20 00 – Earthwork and 33 46 00 – Subdrainage
New Drawing Sheet: E-702 – Stage Lighting One-Line Diagram
Revised Drawing Sheets: G-001, G-002, C400, C401, C402, C403, C404, C500, C501, C503, C506, S-12D, S-13A, S-13C, S-505, S-525, A-11D, A-11F, A-11H, IF11A, IF11B, IF11C, IF11D, IF11E, IF11F, IF12A, IF12C, IF12F, IF13, IF14, IF201, IF202, IF601, IQ11A, IQ11C, IQ11D, IQ11F, IQ12A, IQ12C, IQ201, IQ204, IQ205, IQ503, IQ601, FS1.01, FS2.01, FS2.02, FS3.01, FS3.02, FS6.02, FS6.03, FP101, FP102, FP201, FP202, PF10C, PF10D, P-303, P-304, P-401, P-402, P-403, MV11B, MV11D, MV11E, MV11F, MV12B, MV12C, MV12F, MP11B, MP11F, MP12B, M-401, M-501, M-601, M-602, M-701, ES101, ET11A, ET12B, EL11E, EL11F, EL12C, EL12F, EP11D, EP11E, EP11F, EP12A, EP12B, EP12C, EP12D, EP12E, EP12F, E-401, E-402, E-403, E-601, E-602, E-603, E-604, E-605, E-606, E-607, E-701, T-11A, T-12B, and T-701

Date: November 24, 2025

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 4 to Drawings and Project Manual, dated October 28, 2025, for The New Wallace Aylesworth Middle School for Portage Township Schools, 6240 US Highway 6, Portage, Indiana 46368; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. ADDENDUM NO. 3

A. Revised Project Manual Section 28 23 11 – IP Video Surveillance: Add new Article 3.6, as follows:

"3.6 MULTI-FUNCTION SENSORS

A. Provide ceiling mounted multi-function sensors for detection of smoking and vaping in group/student restrooms and locker room restrooms. Provide Category 6 cable from ceiling mounted sensor to nearest IDF and connect to patch panel.

B. Integrate each multi-function sensor to VMS such that nearest associated cameral logs an event with a bookmark for future review whenever that sensor is in alarm.

C. Basis of Design: Halo Smart Sensor."

ITEM NO. 2. REVISED PROJECT MANUAL SECTIONS

A. Project Manual Sections: 26 05 43 – Underground Ducts and Raceways for Electrical Systems, 26 27 26 – Wiring Devices, 26 56 68 – Exterior Athletic Lighting, 28 31 11 – Digital, Addressable Fire-Alarm System, 31 20 00 – Earthwork and 33 46 00 – Subdrainage have been revised, dated 11/24/25, and is included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, SECTION 05 73 00 – DECORATIVE METAL RAILINGS

A. Add 2.7, A., 1., as follows:

"1. Railings shall be fabricated with round profile members for handrails, main horizontal and vertical railing elements."

ITEM NO. 4. PROJECT MANUAL, SECTION 09 21 16 – GYPSUM BOARD ASSEMBLIES

A. Delete 2.9, F., in its entirety.

B. Delete 3.10, D., in its entirety.

ITEM NO. 5. PROJECT MANUAL, SECTION 09 84 33 – SOUND-ABSORBING WALL UNITS

A. Article 3.5, A.: Change abbreviations in parentheses as follows:

"(AWT-_ or AWP-_)"

B. Article 3,5, B.: Change abbreviations in parentheses as follows:

"(AWT-_ or AWP-_)"

ITEM NO. 6. PROJECT MANUAL, SECTION 11 40 00 – FOOD SERVICE EQUIPMENT

A. Article 3.11 – Equipment Schedule/Specifications: Make the following changes:

Item19: Add Ice Maker

ITEM NO. 19 - ICE MAKER W/ BIN
QUANTITY - ONE
MFG. AND MODEL: MANITOWOC UYF-0190A
ELEC. REQ'M'TS: 120-1

Provide ice maker with an automatic ice maker shut down device to cut off production when the bin is full. Provide vacuum breaker on incoming water line to the ice maker. Refrigeration system shall be self-contained and air-cooled. Ice maker shall be complete with an ice storage bin the same finish as the ice maker unit. Provide unit with the manufacturer's recommended water filter system, and a cord and plug. Exterior finish of unit shall be manufacturers standard. Ice maker shall produce cubelet type ice. Mount unit on 6" high adjustable legs.

Item 26: Add Tilting Kettle

ITEM NO. 26 - TILTING KETTLE
QUANTITY - ONE
MFG. AND MODEL: CLEVELAND KGL-40-TSH
ELEC. REQ'M'TS: 120-1

Provide kettle with all accessories required for operation including an "on-off" switch, indicator light, safety pilot and solenoid valve, pressure limit control, low water cut-off, pressure gauge, water level gauge, thermostat, automatic hot-surface ignition system, gas pressure regulator, burner control valve, junction box, and a cord and plug set.

Provide the following optional accessories: 316 Stainless Steel Liner (316), 2" Tangent Draw-Off (TD2), one (1) 12" × 20" × 6" steam table pan with integral CHG E18-1822 mini basket drain and clear plastic drain hose, Kettle Markings (KM), Spring Assist Cover (CHS), Pan Carrier (PCK), Hot and cold water faucet (DPK), or cold water (SPK) with faucet bracket (FBKT), and a brush kit consisting of a kettle brush, drain valve brush and a paddle.

Item 28: Extend Ventilation Hood 48" overall. Revised drawings to be issued at a later date.

Item 35: Delete the Mobile Work Table and replace with a mobile Pot and Pan Rack

ITEM NO. 35 - SHELF UNIT, MOBILE
QUANTITY -
MFG. AND MODEL: METRO SUPER ADJUSTABLE 2™ SUPER ERECTA

Shelves shall be constructed of wire ribs reinforced with a wire truss on all four sides with Super Erecta Brite finish. Corners to have a tapered fitting welded to the truss, designed to fit the posts. Provide the corner fitting with the Corner Release System, which allows shelves to be adjusted quickly and easily without tools. Finish shall be stainless steel.

SiteSelect Posts shall have double groove visual guide feature, have circular grooves at 1" increments, numbered at 2" intervals, and 5" diameter casters two equipped with brakes and revolving donut type bumpers. Posts shall be approximately 74" high and equipped with four (4) shelves.

Provide the following special components with each unit: Rear and side stainless steel wire closure panels.

Item 38: Add one (1) additional Floor Trough for a total of two (2).

Item 39: Extend Utility Cabinet 48” overall.

Item 42: Replace the 2-Tier Ceramic Glass Shelf Serving Counter with a SL-50-QSCHP-3-L Hot/Cold/Freeze Food Table. Specifications to be consistent with item #41.

Item 43: Replace the Cold Food Counter with a SL-74-QSCHP-4-L Hot/Cold/Freeze Food Table. Specifications to be consistent with item #41.

Item 44: Replace the Cold Food Counter with a SL-74-QSCHP-4-L Hot/Cold/Freeze Food Table. Specifications to be consistent with item #41.

Item 49: Add a new Reach-In Display Refrigerator

ITEM NO. 49 - DISPLAY REFRIGERATOR
QUANTITY - ONE
MFG. AND MODEL: TRUE GDM-26-HST-HC-TSL01
ELEC. REQ'M'TS: 120-1

Unit to come equipped with an oversized and balanced 134A refrigeration system that shall hold between 33°F to 38°F. Exterior to be black vinyl with a black, vinyl coated aluminum interior and 300 series stainless steel bottom (NSF approved).

Doors to have a positive seal and be self-closing. Provide standard adjustable vinyl coated wire shelves, epoxy coated evaporator, triple pane thermal insulated glass, fluorescent interior lighting (safety shielded), foamed-in-place polyurethane high density cell insulation, bottom mount slide out compressor, rear compressor cover, and 2½" castors.

Provide the following optional accessories: three (3) additional shelves, and ratchet door locks.

Item 53: Reduce the size of the Pass-Thru Refrigerators from two-section to single section.

Item 58: Delete the Thermometer Kit in its entirety.

ITEM NO. 7. <u>PROJECT MANUAL SECTION 27 41 12 – COMMUNICATIONS AUDIO-VIDEO MOUNTS</u>

A. Replace 1.3, D., as follows:

“D. Contractor shall provide and install all projector, monitor, displays, and mounts. It is this contractor’s responsibility to coordinate the correct height and throw distance before installation of any mounts.”

ITEM NO. 8. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 04 20 00 – Unit Masonry
- Glen-Gery Brick (Color 1 – Kenosha)
- Glen-Gery Brick (Color 2 – Castile Gray Velour)

Section 09 51 13 – Acoustical Panel Ceilings
- Flanner Inc., Fort Worth, Texas (Suspension, Perimeter, Trim)

Section 09 84 36 – Sound-Absorbing Ceiling Units
- G&S Acoustics, St. Louis, Missouri
- AVL Systems, Ocala, Florida

Section 10 11 00 – Visual Display Units
- Nelson Adams, San Bernardino, California (Tackable Wall Surface)

Section 10 14 23.16 – Interior Panel Signage
- Solar Tint, Cincinnati, Ohio

ITEM NO. 9. NEW DRAWING SHEET

A. Drawing Sheet No: E-702 – Stage Lighting One-Line Diagram dated 11/24/25, is included with and hereby made a part of this Addendum.

ITEM NO. 10. REVISED DRAWING SHEETS

A. Drawing Sheets: G-001, G002, C400, C401, C402, C403, C404, C500, C501, C503, C506, S-12D, S-13A, S-13C, S-505, S-525, A-11D, A-11F, A-11H, IF11A, IF11B, IF11C, IF11D, IF11E, IF11F, IF12A, IF12C, IF12F, IF13, IF14, IF201, IF202, IF601, IQ11A, IQ11C, IQ11D, IQ11F, IQ12A, IQ12C, IQ201, IQ204, IQ205, IQ503, IQ601, FS1.01, FS2.01, FS2.02, FS3.01, FS3.02, FS6.02, FS6.03, FP101, FP102, FP201, FP202, PF10C, PF10D, P-303, P-304, P-401, P-402, P-403, MV11B, MV11D, MV11E, MV11F, MV12B, MV12C, MV12F, MP11B, MP11F, MP12B, M-401, M-501, M-601, M-602, M-701, ES101, ET11A, ET12B, EL11E, EL11F, EL12C, EL12F, EP11D, EP11E, EP11F, EP12A, EP12B, EP12C, EP12D, EP12E, EP12F, E-401, E-402, E-403, E-601, E-602, E-603, E-604, E-605, E-606, E-607, E-701, T-11A, T-12B, and T-701 have been revised, dated 11/24/25, and is included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 11. DRAWING SHEET NO. ED101 ELECTRICAL DEMO PLAN

A. Remove and replace sheet keynote D1 as follows: “DISCONNECT AND REMOVE EXISTING ELECTRICAL AND COMMUNICATIONS SERVICES COMPLETE BACK TO EXISTING UTILITY SERVICE PROVIDER EQUIPMENT AT CENTRAL AVENUE. ALL ELECTRICAL AND TECHNOLOGY IN EXISTING AYLESWORTH ELEMENTARY SCHOOL TO BE REMOVED.”

B. Remove and replace sheet keynote D2 as follows: “DISCONNECT AND REMOVE EXISTING ELECTRICAL AND COMMUNICATIONS SERVICES IN EXISTING ADMIN BUILDING BEING FED BY AYLESWORTH ELEMENTARY.”

ITEM NO. 12. DRAWING SHEET NO. EL11C FIRST FLOOR LIGHTING PLAN - UNIT C

A. Change light fixture at southeast corner of room C108 (nearest exterior door) from type LF3 to type LF3X.

ITEM NO. 13. DRAWING SHEET NO. EL11D FIRST FLOOR LIGHTING PLAN - UNIT D

A. Change light fixture in room D110 from type LR2 to type LF3

ITEM NO. 14. DRAWING SHEET NO. EL12A SECOND FLOOR LIGHTING PLAN - UNIT A

A. Change light fixture at west side of room A211 (nearest door) from type LR2 to type LR2X.

B. Change light fixture closest to each door in room A216 to fixture type LF3X.

ITEM NO. 15. DRAWING SHEET NO. EL12B SECOND FLOOR LIGHTING PLAN - UNIT B

A. Change light fixture at room B221 to type LF3X.

B. Change lighting control to wall switch.

ITEM NO. 16. DRAWING SHEET NO. EF11A FIRST FLOOR FIRE ALARM PLAN – UNIT A

A. Provide a strobe at 12’ east of door to corridor B109 in corridor B102.

B. Provide a horn/strobe in ceiling of hall A102 at north side of door A102A.

ITEM NO. 17. DRAWING SHEET NO. EF11B FIRST FLOOR FIRE ALARM PLAN – UNIT B

A. Provide a strobe at 12’ east of door to corridor B109 in corridor B102.

ITEM NO. 18. DRAWING SHEET NO. EF11D FIRST FLOOR FIRE ALARM PLAN – UNIT D

A. Provide a smoke detector at rooms D102 and D103.

ITEM NO. 19. DRAWING SHEET NO. EF11E FIRST FLOOR FIRE ALARM PLAN – UNIT E

A. Provide a smoke detector at elevator pit.

B. Provide a smoke detector at room E129.

C. Provide a manual pull station at north side pair of exterior doors in vestibule E101.

ITEM NO. 20. DRAWING SHEET NO. EF12A SECOND FLOOR FIRE ALARM PLAN – UNIT A

A. Provide a smoke detector at room A222.

B. Provide a manual pull station at corridor A201 at top of sheet, approximately 55’ foot north of wall of room A223.

ITEM NO. 21. DRAWING SHEET NO. EF12B SECOND FLOOR FIRE ALARM PLAN – UNIT B

A. Provide a smoke detector at room B221.

B. Provide a manual pull station top of gathering stair B218 at south side of wall just outside door B203.

ITEM NO. 22. DRAWING SHEET NO. EF12C SECOND FLOOR FIRE ALARM PLAN – UNIT C

A. Provide a smoke detector at rooms C203 and C224.

ITEM NO. 23. DRAWING SHEET NO. EF12D SECOND FLOOR FIRE ALARM PLAN – UNIT D

A. Provide a smoke detector at room D201.

ITEM NO. 24. DRAWING SHEET NO. EF12E SECOND FLOOR FIRE ALARM PLAN – UNIT E

A. Provide a smoke detector at room E202.

ITEM NO. 25. DRAWING SHEET NO. EF12F SECOND FLOOR FIRE ALARM PLAN – UNIT F

A. Provide a smoke detector at room F206.

ITEM NO. 26. DRAWING SHEET NO. EP11A FIRST FLOOR POWER PLAN – UNIT A

A. Connect receptacle outside door A110A to circuit AL3-30.

END OF ADDENDUM

SECTION 26 05 43 - UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Conduit, ducts, and duct accessories for direct-buried and concrete-encased duct banks, and in single duct runs.
   2. Handholes and boxes.
   3. Sports Field Pockets

1.2 DEFINITION

A. RNC: Rigid nonmetallic conduit.

1.3 SUBMITTALS

A. Shop Drawings for Factory-Fabricated Handholes and Boxes Other Than Precast Concrete: Include dimensioned plans, sections, and elevations, and fabrication and installation details, including the following:
   1. Duct entry provisions, including locations and duct sizes.
   2. Cover design.
   3. Grounding details.
   4. Dimensioned locations of cable rack inserts, and pulling-in and lifting irons.

B. Quality Assurance/Control Submittals:
   1. Product Data: For the following:
      a. Duct-bank materials, including separators and miscellaneous components.
      b. Ducts and conduits and their accessories, including elbows, end bells, bends, fittings, and solvent cement.
      c. Accessories for manholes, handholes, and boxes.
      d. Warning tape.
   2. Source quality-control test reports.
   3. Field quality-control test reports.

1.4 QUALITY ASSURANCE

A. Comply with ANSI C2.

B. Comply with NFPA 70.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver ducts to Project site with ends capped. Store nonmetallic ducts with supports to prevent bending, warping, and deforming.

B. Store precast concrete and other factory-fabricated underground utility structures at Project site as recommended by manufacturer to prevent physical damage. Arrange so identification markings are visible.

C. Lift and support precast concrete units only at designated lifting or supporting points.

1.6 COORDINATION

A. Coordinate layout and installation of ducts, manholes, handholes, and boxes with final arrangement of other utilities, site grading, and surface features as determined in the field.

B. Coordinate elevations of ducts and duct-bank entrances into manholes, handholes, and boxes with final locations and profiles of ducts and duct banks as determined by coordination with other utilities, underground obstructions, and surface features. Revise locations and elevations from those indicated as required to suit field conditions and to ensure that duct runs drain to manholes and handholes, and as approved by Architect/Engineer.

PART 2 - PRODUCTS

2.1 CONDUIT

A. Rigid Galvanized.Steel Conduit: Comply with ANSI C80.1. Use RGS when noted in this specification or where required on drawings.

B. RNC: NEMA TC 2, Type EPC-40-PVC, UL 651, with matching fittings by same manufacturer as the conduit, complying with NEMA TC 3 and UL 514B.

2.2 NONMETALLIC DUCTS AND DUCT ACCESSORIES

A. Underground Plastic Utilities Duct: NEMA TC 6 & 8, Type EB-20-PVC, ASTM F 512, UL 651A, with matching fittings by the same manufacturer as the duct, complying with NEMA TC 9.

B. Duct Accessories:
1. Duct Separators: Factory-fabricated rigid PVC interlocking spacers, sized for type and sizes of ducts with which used, and selected to provide minimum duct spacings indicated while supporting ducts during concreting or backfilling.
2. Warning Tape: Underground-line warning tape specified in Division 260553 Section "Identification for Electrical Systems."

2.3 HANDHOLES AND BOXES OTHER THAN PRECAST CONCRETE

A. Description: Comply with SCTE 77.
1. Color:
a. Paved and Off-Road Locations: Gray.
b. Grass and Turf Locations: Green.
2. Configuration: Units shall be designed for flush burial and have open bottom, unless otherwise indicated.
3. Cover: Weatherproof, secured by tamper-resistant locking devices and having structural load rating consistent with enclosure.
4. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
5. Cover Legend: Molded lettering. Selected to suit system.
a. Legend: "ELECTRIC" for duct systems with power wires and cables for systems operating at 600 V and less.
b. Legend: "COMMUNICATIONS" for communications, data, and telephone duct systems.
6. Handholes 12 inches wide by 24 inches long and larger shall have factory-installed inserts for cable racks and pulling-in irons.

B. Polymer Concrete Handholes and Boxes with Polymer Concrete Cover: Molded of sand and aggregate, bound together with a polymer resin, and reinforced with steel or fiberglass or a combination of the two.

C. Fiberglass Handholes and Boxes with Polymer Concrete Frame and Cover: Sheet-molded, fiberglass-reinforced, polyester resin enclosure joined to polymer concrete top ring or frame.

D. Fiberglass Handholes and Boxes: Molded of fiberglass-reinforced polyester resin, with covers of fiberglass.

E. High-Density Plastic Boxes: Injection molded of high-density polyethylene or copolymer-polypropylene. Cover shall be plastic.

2.4 SPORTS FIELD POCKETS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Gill Athletics; VersaCom products.
   2. Sportsfield Specialties Inc.; ComBox products.

B. Description: Open bottom box constructed of 3/16-inch aluminum sheet.
   1. Dimensions: 18 by 18 by 14 inches deep.
   2. Ledge: 1/8-inch aluminum, adjustable.
   3. Divider Plate: 3/16-inch aluminum.
   4. Cover: 3/16-inch aluminum plate, lockable.
   5. Handhole Covers: 12, lockable, with wire feed cutouts.
   6. Leveling Bolts: Stainless steel.
   7. Hardware: Stainless steel.
   8. Riser: 18 by 18 by 14 inches deep matching aluminum riser with divider.

C. Field Pockets Installed in Synthetic Track Material: Covers and handholes recessed 1/2-inch to accept synthetic track material.

D. Field Pockets Installed in Artificial Turf: Covers designed to be wrapped with artificial turf, 1/2-inch pressure treated plywood, and clamping bars to secure turf to inside ledge.

2.5 SOURCE QUALITY CONTROL

A. Test and inspect precast concrete utility structures according to ASTM C 1037.

B. Nonconcrete Handhole and Pull-Box Prototype Test: Test prototypes of manholes and boxes for compliance with SCTE 77. Strength tests shall be for specified tier ratings of products supplied.
   1. Strength tests of complete boxes and covers shall be by either an independent testing agency or the manufacturer. A qualified registered professional engineer shall certify tests by manufacturer.
   2. Testing machine pressure gages shall have current calibration certification complying with ISO 9000 and ISO 10012, and traceable to NIST standards.

PART 3 - EXECUTION

3.1 UNDERGROUND DUCT APPLICATION

A. Ducts for Electrical Cables Over 600 V: RNC, NEMA Type EB-20-PVC, in concrete-encased duct bank, unless otherwise indicated.

B. Ducts for Electrical Feeders 600 V and Less: RNC**,** NEMA Type EB-20-PVC, in concrete-encased duct bank, unless otherwise indicated. A feeder is defined as any circuit shown on the one line diagram or any circuit with an overcurrent device in excess of 150 amperes. Underground feeders below concrete slab on grade shall be excluded from the requirement of concrete encasement.

C. Underground Ducts for any electrical feeder or branch that is part of the Emergency System or Optional Standby System or Legally Required Standby System: RNC**,** NEMA Type EB-20-PVC, in concrete-encased duct bank, unless otherwise indicated.

D. Ducts for Electrical Branch Circuits: RNC, NEMA Type EPC-40-PVC, in direct-buried duct bank, unless otherwise indicated.

E. Underground Ducts for Telephone, Communications, or Data Utility Service Cables: RNC, NEMA Type EPC-40-PVC, installed in direct-buried duct bank, unless otherwise indicated.

F. Underground Ducts for Telephone, Communications, or Data Circuits: RNC, NEMA Type EPC-40-PVC, in direct-buried duct bank, unless otherwise indicated.

G. Install underground ducts for telephone, communications, or data utility service cables at least 24 inches from underground ducts for electrical feeders or branch circuits.

H. Underground Ducts Crossing Paved Paths, Walkways, Driveways, and Roadways: RNC, NEMA Type EPC-40-PVC, encased in reinforced concrete.

3.2 UNDERGROUND ENCLOSURE APPLICATION

A. Handholes and Boxes for 600 V and Less, Including Telephone, Communications, and Data Wiring:
   1. Units in Roadways and Other Deliberate Traffic Paths: Precast concrete. AASHTO HB 17, H-20 structural load rating.
   2. Units in Driveway, Parking Lot, and Off-Roadway Locations, Subject to Occasional, Nondeliberate Loading by Heavy Vehicles: Use one of the following:
      a. Precast concrete. AASHTO HB 17, H-20 structural load rating.
      b. Polymer concrete, SCTE 77, Tier 15 structural load rating.
      c. Fiberglass enclosures with polymer concrete frame and cover, SCTE 77, Tier 15 structural load rating.
   3. Units in Sidewalk and Similar Applications with a Safety Factor for Nondeliberate Loading by Vehicles: Use one of the following:
      a. Precast concrete. AASHTO HB 17, H-10 structural load rating.
      b. Polymer concrete units, SCTE 77, Tier 8 structural load rating.
      c. Heavy-duty fiberglass units with polymer concrete frame and cover, SCTE 77, Tier 8 structural load rating.

3.3 EARTHWORK

A. Excavation and Backfill: Comply with Division 31 Section "Earth Moving," but do not use heavy-duty, hydraulic-operated, compaction equipment.

3.4 DUCT INSTALLATION

A. Comply with NECA 605.

B. Slope: Pitch ducts a minimum slope of 1:300 down toward manholes and handholes and away from buildings and equipment. Slope ducts from a high point in runs between two manholes to drain in both directions.

C. Curves and Bends: Use 5-degree angle couplings for small changes in direction. Use manufactured long sweep bends with a minimum radius of 48 inches, both horizontally and vertically, at other locations, unless otherwise indicated.

D. Joints: Use solvent-cemented joints in ducts and fittings and make watertight according to manufacturer's written instructions. Stagger couplings so those of adjacent ducts do not lie in same plane.

E. Duct Entrances to Manholes and Concrete and Polymer Concrete Handholes: Use end bells, spaced approximately 10 inches o.c. for 5-inch ducts, and vary proportionately for other duct sizes.
   1. Begin change from regular spacing to end-bell spacing 10 feet from the end bell without reducing duct line slope and without forming a trap in the line.
   2. Grout end bells into structure walls from both sides to provide watertight entrances.

F. Building Wall Penetrations: Make a transition from underground duct to rigid steel conduit at least 10 feet outside the building wall without reducing duct line slope away from the building, and without forming a trap in the line. Use fittings manufactured for duct-to-conduit transition. Install conduit penetrations of building walls as specified in Division 26 Section "Common Work Results for Electrical."

G. Sealing: Provide temporary closure at terminations of ducts that have cables pulled. Seal spare ducts at terminations. Use sealing compound and plugs to withstand at least 15-psig hydrostatic pressure.

H. Pulling Cord: Install 100-lbf- test nylon cord in ducts, including spares.

I. Concrete-Encased Ducts: Support ducts on duct separators.
   1. Separator Installation: Space separators close enough to prevent sagging and deforming of ducts, with not less than 4 spacers per 20 feet of duct. Secure separators to earth and to ducts to prevent floating during concreting. Stagger separators approximately 6 inches between tiers. Tie entire assembly together using fabric straps; do not use tie wires or reinforcing steel that may form conductive or magnetic loops around ducts or duct groups.
   2. Concreting Sequence: Pour each run of envelope between manholes or other terminations in one continuous operation.
      a. Start at one end and finish at the other, allowing for expansion and contraction of ducts as their temperature changes during and after the pour. Use expansion fittings installed according to manufacturer's written recommendations, or use other specific measures to prevent expansion-contraction damage.
      b. If more than one pour is necessary, terminate each pour in a vertical plane and install 3/4-inch reinforcing rod dowels extending 18 inches into concrete on both sides of joint near corners of envelope.
   3. Pouring Concrete: Spade concrete carefully during pours to prevent voids under and between conduits and at exterior surface of envelope. Do not allow a heavy mass of concrete to fall directly onto ducts. Use a plank to direct concrete down sides of bank assembly to trench bottom. Allow concrete to flow to center of bank and rise up in middle, uniformly filling all open spaces. Do not use power-driven agitating equipment unless specifically designed for duct-bank application.
   4. Reinforcement: Reinforce concrete-encased duct banks where they cross disturbed earth and where indicated. Arrange reinforcing rods and ties without forming conductive or magnetic loops around ducts or duct groups.
   5. Forms: Use walls of trench to form side walls of duct bank where soil is self-supporting and concrete envelope can be poured without soil inclusions; otherwise, use forms.
   6. Minimum Space between Ducts: 3 inches between ducts and exterior envelope wall, 2 inches between ducts for like services, and 4 inches between power and signal ducts.
   7. Depth: Install top of duct bank at least 24 inches below finished grade in areas not subject to deliberate traffic, and at least 30 inches below finished grade in deliberate traffic paths for vehicles, unless otherwise indicated.
   8. Stub-Ups: Use manufactured rigid steel conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.
      a. Couple steel conduits to ducts with adapters designed for this purpose, and encase coupling with 3 inches of concrete.
      b. Stub-Ups to Equipment: For equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches from edge of base. Install insulated grounding bushings on terminations at equipment.
         1) Where steel conduit stub-ups are prohibited by the electrical utility company, use manufactured duct elbows for stub-ups. Extend concrete encasement throughout the length of the elbow

9. Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at approximately 8 inches below finished grade. As a minimum, bury warning tape approximately 12 inches above concrete envelope. Align tape parallel to and within 3 inches of the centerline of duct bank. Provide multiple tapes where width of multiple lines installed in a common trench or concrete envelope exceeds 16 inches overall. Space additional tapes 12 inches apart, horizontally.

J. Direct-Buried Duct Banks:
1. Support ducts on duct separators coordinated with duct size, duct spacing, and outdoor temperature.
2. Space separators close enough to prevent sagging and deforming of ducts, with not less than 4 spacers per 20 feet of duct. Secure separators to earth and to ducts to prevent displacement during backfill and yet permit linear duct movement due to expansion and contraction as temperature changes. Stagger spacers approximately 6 inches between tiers.
3. Excavate trench bottom to provide firm and uniform support for duct bank. Prepare trench bottoms as specified in Division 31 Section "Earth Moving" for pipes less than 6 inches in nominal diameter.
4. Install backfill as specified in Division 31 Section "Earth Moving."
5. After installing first tier of ducts, backfill and compact. Start at tie-in point and work toward end of duct run, leaving ducts at end of run free to move with expansion and contraction as temperature changes during this process. Repeat procedure after placing each tier. After placing last tier, hand-place backfill to 4 inches over ducts and hand tamp. Firmly tamp backfill around ducts to provide maximum supporting strength. Use hand tamper only. After placing controlled backfill over final tier, make final duct connections at end of run and complete backfilling with normal compaction as specified in Division 31 Section "Earth Moving."
6. Install ducts with a minimum of 3 inches between ducts for like services and 6 inches between power and signal ducts.
7. Depth: Install top of duct bank at least 36 inches below finished grade, unless otherwise indicated.
8. Set elevation of bottom of duct bank below the frost line.
9. Install manufactured duct elbows for stub-ups at poles and equipment and at building entrances through the floor, unless otherwise indicated. Encase elbows for stub-up ducts throughout the length of the elbow.
10. Install manufactured rigid steel conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.
    a. Couple steel conduits to ducts with adapters designed for this purpose, and encase coupling with 3 inches of concrete.
    b. For equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches from edge of equipment pad or foundation. Install insulated grounding bushings on terminations at equipment.
        1) Where steel conduit stub-ups are prohibited by the electrical utility company, use manufactured duct elbows for stub-ups. Extend concrete encasement throughout the length of the elbow
11. Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at approximately 8 inches below finished grade. As a minimum, bury warning tape approximately 12 inches above ducts. Align tape parallel to and within 3 inches of the centerline of duct bank. Provide multiple tapes where width of multiple lines installed in a common trench exceeds 16 inches overall. Space additional tapes 12 inches apart, horizontally.

3.5 INSTALLATION OF HANDHOLES AND BOXES OTHER THAN PRECAST CONCRETE

A. Install handholes and boxes level and plumb and with orientation and depth coordinated with connecting ducts to minimize bends and deflections required for proper entrances. Use box extension if required to match depths of ducts, and seal joint between box and extension as recommended by the manufacturer.

B. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth.

C. Elevation: In paved areas and trafficways, set so cover surface will be flush with finished grade. Set covers of other handholes 1 inch above finished grade.

D. Install handholes and boxes with bottom below the frost line, 4**0 inches** below grade.

E. Install removable hardware, including pulling eyes, cable stanchions, cable arms, and insulators, as required for installation and support of cables and conductors and as indicated. Select arm lengths to be long enough to provide spare space for future cables, but short enough to preserve adequate working clearances in the enclosure.

F. Field-cut openings for ducts and conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

G. For enclosures installed in asphalt paving and subject to occasional, nondeliberate, heavy-vehicle loading, form and pour a concrete ring encircling, and in contact with, enclosure and with top surface screeded to top of box cover frame. Bottom of ring shall rest on compacted earth.
   1. Concrete: 3000 psi , 28-day strength, complying with Division 03 Section "Cast-in-Place Concrete," with a troweled finish.
   2. Dimensions: 10 inches wide by 12 inches deep.

3.6 INSTALLATION OF SPORTS FIELD POCKETS

A. Install boxes level and plumb and with orientation and depth coordinated with connecting ducts to minimize bends and deflections required for proper entrances. Use box extension if required to match depths of ducts, and seal joint between box and extension as recommended by the manufacturer.

B. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth.

C. Elevation: Set so cover surface will be flush with finished grade.

D. Install field pockets with bottom below the frost line, 28 inches below grade.

E. Field-cut openings for ducts and conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

3.7 GROUNDING

A. Ground underground ducts and utility structures according to Division 26 Section "Grounding and Bonding for Electrical Systems."

3.8 FIELD QUALITY CONTROL

A. Perform the following tests and inspections and prepare test reports:
   1. Demonstrate capability and compliance with requirements on completion of installation of underground ducts and utility structures.
   2. Pull aluminum or wood test mandrel through duct to prove joint integrity and test for out-of-round duct. Provide mandrel equal to 80 percent fill of duct. If obstructions are indicated, remove obstructions and retest.

3. Test manhole and handhole grounding to ensure electrical continuity of grounding and bonding connections. Measure and report ground resistance as specified in Division 26 Section "Grounding and Bonding for Electrical Systems."

B. Correct deficiencies and retest as specified above to demonstrate compliance.

3.9 CLEANING

A. Pull leather-washer-type duct cleaner, with graduated washer sizes, through full length of ducts. Follow with rubber duct swab for final cleaning and to assist in spreading lubricant throughout ducts.

B. Clean internal surfaces of manholes, including sump. Remove foreign material.

END OF SECTION 26 05 43

SECTION 26 27 26 - WIRING DEVICES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Receptacles, receptacles with integral GFCI, and associated device plates.
   2. Twist-locking receptacles.
   3. Snap switches and wall-box dimmers.
   4. Wall-switch occupancy sensors.
   5. Spring-wound interval time switches.
   6. Cord reels.
   7. Cord and plug sets.

B. Related Sections include the following:
   1. Division 26 Section "Conduit and Boxes for Electrical Systems" for conduit, metal and nonmetallic floor boxes, poke through service fitting, high capacity floor boxes, etc.
   2. Division 26 Section "Lighting Control Devices" for photoelectric switches and occupancy sensors other than wall-switch type.
   3. Division 27 Section "Communications Copper Horizontal Cabling" for workstation outlets.

1.2 DEFINITIONS

A. GFCI: Ground-fault circuit interrupter.

B. Pigtail: Short lead used to connect a device to a branch-circuit conductor.

1.3 SUBMITTALS

A. Quality Assurance/Control Submittals:
   1. Product Data: Provide product data sheet for each wiring device or product in this Section and on the Drawings that are specifically applicable to this project. Provide an arrow stamp pointing to the exact catalog number or product and do not merely highlight the information.
   2. For special purpose NEMA type receptacles, Submittal shall indicate equipment served for each special purpose receptacle type (e.g. NEMA 15-50R-- “Kiln”).
   3. Field quality-control test reports.

1.4 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
   1. Operation and Maintenance Data: For wiring devices to include in all manufacturers' packing label warnings and instruction manuals that include labeling conditions.

1.5 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of wiring device and associated wall plate through one source from a single manufacturer. Insofar as they are available, obtain all wiring devices and associated wall plates from a single manufacturer and one source.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Comply with NFPA 70.

1.6 COORDINATION

A. Receptacles for Owner-Furnished Equipment: Match plug configurations.
   1. Cord and Plug Sets: Match equipment requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:
   1. Pass & Seymour/Legrand; Wiring Devices & Accessories (Pass & Seymour).

B. Products of other manufacturers will be considered for acceptance only when allowed in Section 260050, General Electrical Requirements.

C. All wiring devices in this building shall be supplied from the same manufacturer. Use of multiple manufactures of wiring devices in the same building is not allowed.

2.2 STRAIGHT BLADE RECEPTACLES

A. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration 5-20R, DSCC W C 596G, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 5361 (single), 5362-A (duplex), PT5362A (duplex, with separable pigtailed connector).

B. Tamper-Resistant Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration 5-20R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; TR63H, or PTR63H (with separable pigtailed connector).
   2. Description: Labeled to comply with NFPA 70, "Health Care Facilities" Article, "Pediatric Locations" Section.

C. Residential Electric Clothes Dryer Receptacles, 125/250 V, 30 A: Comply with NEMA WD 1, NEMA WD 6 configuration 14-30R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 3864.

D. Residential Electric Oven/Range Receptacles, 125/250 V, 50 A: Comply with NEMA WD 1, NEMA WD 6 configuration 14-50R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 3894.

2.3 GFCI RECEPTACLES

A. General Description: Straight blade, feed-through type. Comply with NEMA WD 1, NEMA WD 6, UL 498, and UL 943, Class A, and include indicator light that is lighted when device is tripped.

B. Duplex GFCI Convenience Receptacles, 125 V, 20 A:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 2095, or PT2095 (with separable pigtailed connector).

C. Listed Weather-Resistant Type Duplex GFCI Convenience Receptacles, 125 V, 20 A:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 2095-TRWR.

D. Tamper-Resistant Duplex GFCI Convenience Receptacles, 125 V, 20 A:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 2095-TR, or PT2095-TR (with separable pigtailed connector).

2.4 TWIST-LOCKING RECEPTACLES

A. Single Convenience Receptacles, 125 V, 15 A: Comply with NEMA WD 1, NEMA WD 6 configuration L5-15R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; L515-R.

B. Single Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration L5-20R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; L520-R.

C. Single Convenience Receptacles, 125 V, 30 A: Comply with NEMA WD 1, NEMA WD 6 configuration L5-30R, and UL 498.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; L530-R.

2.5 SNAP SWITCHES

A. Comply with NEMA WD 1, DSCC W C 896F, and UL 20.

B. Switches, 120/277 V, 20 A:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; PS20AC1 (single pole), PS20AC2 (two pole), PS20AC3 (three way), PS20AC4 (four way).

C. Pilot Light Switches, 20 A:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; PS20AC1-RPL for 120 V, PS20AC1-RPL7 for 277 V.
   2. Description: Single pole, with red neon-lighted handle, illuminated when switch is "ON."

D. Key-Operated Switches, 120/277 V, 20 A; with factory-supplied key in lieu of switch handle.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; PS20AC1-L (single pole), PS20AC2-L (two pole), PS20AC3-L (three way), PS20AC4-L (four way).

E. Single-Pole, Double-Throw, Momentary Contact, Center-Off Switches, 120/277 V, 20 A; for use with mechanically held lighting contactors.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 1251.

F. Key-Operated, Single-Pole, Double-Throw, Momentary Contact, Center-Off Switches, 120/277 V, 20 A; for use with mechanically held lighting contactors, with factory-supplied key in lieu of switch handle.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Pass & Seymour; 1251L.

2.6 WALL-BOX DIMMERS

A. Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters.

B. Control: Continuously adjustable slide type; with single-pole or three-way switching. Comply with UL 1472.

C. Contractor shall verify voltage for the luminaire that is to be dimmed. Select from the following options and provide the matching required wall dimmer.

   1. For LED luminaires: 0 to 10 volt dimmers, to control lights as identified in lighting fixture schedule Verify the maximum quantity of luminaires in each space that can be controlled

from one dimmer. Provide each space with the required quantity of dimmers to control all luminaires in that space.

2.7 SPRING-WOUND INTERVAL TIME SWITCHES

A. Single-gang, wall box spring-wound, auto-off timer:
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Intermatic Incorporated, FF60MHC.
      b. Paragon Electrical Products, SWP60M.
      c. Tork, C560M.
   2. Description: 0 to 60 minute time cycle, brushed stainless steel or aluminum faceplate with coordinated time dial and knob.
   3. Electrical Ratings:
      a. Inductive: 20 A, 125 VAC; 10 A, 277 VAC.
      b. Tungsten: 7 A, 125 VAC.
      c. Motor: 1 HP, 125 VAC.

2.8 WALL PLATES

A. Single and combination types to match corresponding wiring devices.
   1. Plate-Securing Screws: Metal with head color to match plate finish.
   2. Material for Finished Spaces: 0.035-inch- thick, medium size, satin-finished stainless steel.
   3. Material for Unfinished Spaces: Galvanized steel.
   4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."

B. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with type 3R weather-resistant, die-cast aluminum with lockable cover.

2.9 CORD AND PLUG SETS

A. Description: Match voltage and current ratings and number of conductors to requirements of equipment being connected.
   1. Cord: Rubber-insulated, stranded-copper conductors, with Type SOW-A jacket; with green-insulated grounding conductor and equipment-rating ampacity plus a minimum of 30 percent.
   2. Plug: Nylon body and integral cable-clamping jaws. Match cord and receptacle type for connection.

2.10 CORD REELS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. EGS Electrical Group; McGill products.
   2. Industrial Electric Reels, Inc.
   3. Reelcraft Industries, Inc.
   4. Daniel Woodhead; a Woodhead Industries, Inc. Co.

B. Description: 115 V, 35 A, 60 Hz, spring retractable electric cord reel with latch, solid steel construction, abrasion and corrosion resistant baked on powder coat finish, nylon roller cable guides, adjustable cord stop, under-hung ceiling mounted.
   1. Provide 25 foot cord with No. 10 AWG stranded-copper conductors, rubber insulated, Type SO jacket, with green insulated grounding conductor, unless otherwise indicated.
   2. Provide two GFCI duplex receptacles, unless otherwise indicated.
   3. Provide cast aluminum or non-metallic portable outlet box, listed and labeled for “wet locations.”
   4. External Cable Grip: Provide woven wire-mesh, cord strain relief grip, made of high-strength galvanized-steel wire strand, matched to cable diameter and with corresponding attachment connector, and the device end.
   5.

2.11 FINISHES

A. Color: Wiring device catalog numbers in Section Text do not designate device color. Color as defined by NEMA WD 1 unless otherwise indicated.
   1. Wiring Devices Connected to Normal Power System: Gray, unless otherwise indicated or required by NFPA 70 or device listing.
   2. Wiring Devices Connected to Emergency Power System: Red.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with NECA 1.

B. Coordination with Other Trades:
   1. Take steps to insure that devices and their boxes are protected. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of the boxes.
   2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
   3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
   4. Install wiring devices after all wall preparation, including painting, is complete.

C. Conductors:
   1. Do not strip insulation from conductors until just before they are spliced or terminated on devices.
   2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
   3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.
   4. Existing Conductors:
      a. Cut back and pigtail, or replace all damaged conductors.
      b. Straighten conductors that remain and remove corrosion and foreign matter.
      c. Pigtailing existing conductors is permitted provided the outlet box is large enough.

D. Device Installation:
   1. Replace all devices that have been in temporary use during construction or that show signs that they were installed before building finishing operations were complete.
   2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
   3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
   4. Connect devices to branch circuits using pigtails that are not less than 6 inches in length.
   5. Connect grounding terminals of devices to device box and equipment grounding conductor using pigtails that are not less than 6 inches in length with factory-crimped flanged spade and ring terminals.
   6. When using side wiring with binding-head screw terminals, use solid conductor pigtails. Wrap conductor tightly clockwise, 2/3 to 3/4 of the way around terminal screw.
   7. Use a torque screwdriver when a torque is recommended or required by the manufacturer.
   8. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
   9. Tighten unused terminal screws on the device.
   10. When mounting into metal boxes, remove the fiber or plastic washers used to hold device mounting screws in yokes, allowing metal-to-metal contact.
   11. Install device boxes so that finish plates do not span different types of building finishes.

E. Receptacle Orientation:
   1. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the left.

F. Device Plates:
   1. Install blank device plates on unused device boxes.
   2. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening. Do not use oversized or extra-deep plates, unless approved by engineer.

G. Dimmers:
   1. Install dimmers within terms of their listing.
   2. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

H. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.

I. Install devices into floor service outlets, service poles, and high capacity floor boxes to suit arrangement of partitions and furnishings.

J. Securely install multioutlet assemblies with screws and anchors. Comply with Division 26 Section "Hangers and Supports for Electrical Systems."

K. GFCI Receptacles: Where double-duplex GFCI receptacles are indicated, provide one duplex GFCI receptacle and feed-through to standard straight blade convenience receptacle in same device box.
   1. Unless indicated otherwise, do not feed-through to receptacles in other device boxes.

L. Mounting Heights: Refer to drawings for mounting heights. If heights are not shown on drawings, install as follows. Measured from finished floor to bottom of outlet or device box, unless indicated otherwise.
   1. General Use Receptacles: 16 inches.
   2. Snap Switches, Wall-Box Dimmers, Wall-Switch Sensors: 44 inches.
      a. Install on strike side of door, 6 to 12 inches from door, unless otherwise indicated.
   3. Receptacles in Mechanical and Electrical Equipment Rooms: 48 inches.
   4. Wiring Devices Above 30-Inch-High Countertops: 40 inches.
      a. Install at least 2 inches above backsplash.
   5. Wiring Devices Above 36-Inch-High Countertops: 44 inches.
      a. Install at least 2 inches above backsplash.
   6. Wiring Devices Above 42-Inch-High Countertops: 48 inches.
      a. Install at least 2 inches above backsplash.
   7. Wiring Devices Above Lavatories: 44 inches.
   8. Receptacles Serving Domestic Refrigerators: 56 inches.
   9. Receptacles Serving Domestic Electric Clothes Dryers and Washing Machines: 32 inches.
   10. Receptacles Serving Domestic Dishwashers: 2 inches.
      a. Install horizontally.
   11. Recessed Motor Controls: 56 inches.
   12. Pushbuttons: 44 inches.
   13. Interior Wall Mounted Luminaire Outlets: 88 inches.
      a. Install at least 2 inches above mirrors.
   14. Occupant Adjustable Thermostats: 44 inches.
   15. Sensor Only Thermostats: 56 inches.
   16. Fire Alarm Manual Stations: 44 inches.
      a. Install within 5’-0” of door.
      b. Install no higher than 48 inches to top of device.
   17. Fire Alarm Notification Appliances: 80 inches, or 6 inches below ceiling. Whichever is lower.

M. Utilization Equipment: Refer to Shop Drawings for mounting height of special purpose devices serving, but not limited to, the following:
   1. Commercial kitchen equipment.
   2. Commercial clothes washers and dryers.
   3. Drinking water coolers.
   4. Sensor operated wash fountains and lavatories.

3.2 IDENTIFICATION

A. Comply with Division 26 05 53 Section "Identification for Electrical Systems" for the following:
   1. Receptacles: Identify panelboard and circuit number from which each receptacle is served as required is section 260553. Use durable wire markers or tags inside outlet boxes.
   2. Provide external, manufacturers adhesive label outside of cover plate when a standard receptacle is served from an upstream GFI device. as required is section 260553.

3.3 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports. Refer to Division 26 Section “Electrical Testing” for requirements.

END OF SECTION 26 27 26

SECTION 26 56 68 - EXTERIOR ATHLETIC LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes Light Emitting Diode (LED) source exterior athletic lighting for the football field and track, specified primarily by illumination performance. Provide light fixture quantities, electrical loading, and photometric study for proposed athletic lighting system included within bid for evaluation by engineer as part of bid evaluation. Failure to provide information on proposed system may result in bid being determined to be non-responsive.

1.3 DEFINITIONS

A. CV: Coefficient of variation; a statistical measure of the weighted average of all relevant illumination values for the playing area, expressed as the ratio of the standard deviation for all illuminance values to the mean illuminance value.

B. Delegated-Design Submittals: Documents, including drawings, calculations, and material and product specifications prepared as a responsibility of Contractor to obtain acceptance by Owner and authorities having jurisdiction.

C. Horizontal Illuminance: Measurement in foot-candles, on a horizontal surface 36 inches above ground, unless otherwise indicated.

D. LLD: Lamp lumen depreciation.

E. LLF: Light loss factor.

F. Luminaire: Complete lighting fixture, including ballast housing if provided.

G. Target Illuminance: Average maintained illuminance level, calculated by multiplying initial illuminance by LLF.

H. UG: Uniformity gradient; the rate of change of illuminance on the playing field, expressed as a ratio between the illuminances of adjacent measuring points on a uniform grid.

I. Vertical Illuminance: Measurement in foot-candles, in four directions on a vertical surface, at an elevation coinciding with plane height of horizontal measurements.

J. LED: Light-emitting diode.

1.4 PERFORMANCE REQUIREMENTS

A. Facility Type: Middle school facility.

B. Illumination Criteria: Comply with criteria in IESNA RP-6-15 for the following:
   1. Minimum average maintained illuminance level for each lighted area for each sports venue and for the indicated class of play.
   2. CV and maximum-to-minimum uniformity ratios for each lighted area equal to or less than those listed in IESNA RP-6-15 for the indicated class of play.
   3. UG levels within each lighted area and between adjacent lighted areas equal to or less than those listed in IESNA RP-6-15 for the indicated speed of sport.

4. Maintained Average Illuminance levels shall be guaranteed for 10 Years.
5. The manufacturer shall supply lighting equipment to meet or exceed the following performance criteria:

Playing Field	Avg. Maintained Footcandles	Max. to Min. Uniformity Ratio
Football	30	2 to 1

C. Color Temperature: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.

D. Playability: Lighting design and luminaire selection should be optimized for playability by reducing glare onfield and providing sufficient uplight.

1. Aiming Angles: To reduce glare, luminaire aiming should ensure the top of the luminaire field angle (based on sample photometric reports) is a minimum of 10 degrees below horizontal.
2. Glare Control Technology – Luminaires selected should have glare control technology including, but not limited to: external visors, internal shields and louvres. No symmetrical beam patterns are acceptable.
3. Aerial lighting – Adequate illumination must be provided above the field to see the ball in flight. It is recommended that a lighting analysis be performed above the field of play to evaluate the visibility of the ball over its typical trajectory to ensure the participants will adequately see the ball. Calculation planes should be evaluated up to the maximum anticipated height for the level of play.
4. Mounting Heights: To ensure proper aiming angles, minimum mountings heights shall be as described below. Higher mounting heights may be necessary for luminaire with lesser glare control to meet field angle requirements of section 1.2.C.1.

# of Poles	Pole Designation	Pole Height
1	**F1, F2, F3, F4**	**80'**

E. Hours of usage: Designs shall be based on the following hours of usage:

Playing Field	Annual Usage Hours	10 Year Usage Hours
Football	150	1,500

F. Illumination Calculations: Computer-analyzed point method complying with IESNA RP-6 to optimize selection, location, and aiming of luminaires.
1. Grid Pattern Dimensions: For playing areas of each sport and areas of concern for spill-light control, correlate and reference calculated parameters to the grid areas and intersection points of the indicated grid pattern.
2. Spill-Light Control: Minimize spill light for each playing area on adjacent and nearby areas.
   a. Prevent light trespass on properties near Project as defined by authorities having jurisdiction.
   b. All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.
   c. Limit the level of illuminance directed past the lighted area (field of play) any luminaire or group of luminaires, and measured 36 inches above grade to the following:
      1) Maximum Horizontal Illuminance: 0.50 fc at 150 feet from edge of lighted area.
      2) Maximum Vertical Illuminance from the Direction of the Greatest Contribution of Light: 0.5 fc at 150 feet from edge of lighted area.
   d. Calculate the horizontal and vertical illuminance due to spill light for points spaced 30 feet apart to ensure that design meets the above limits.
3. Glare Control: Design illumination for each playing area to minimize direct glare in adjacent and nearby areas.

a. Design source intensity of luminaires that may be observed at an elevation of 60 inches above finished grade from nearby properties to be less than 10,000 candela when so observed.

4. Use a field factor of 15 percent according to IESNA RP-6, in establishing initial illuminance.
5. Determine LLF according to IESNA RP-6; use LLD at 70 percent of rated lamp life.
6. Luminaire Mounting Height: Comply with recommendations in IESNA RP-6, with consideration for requirements to minimize spill light and glare.
7. The manufacturer shall provide a written guarantee that all light levels on the computer generated models (scans) for both initial and maintained light levels be measured upon completion to be within a 10% tolerance of the number indicated for that particular location on the point-by point scans. Failure to provide this guarantee during the submittal process or refusal to provide this guarantee will result in an immediate "REJECTED and RESUBMIT" until the documentation is provided as Specified.

G. Football Fields:
1. Speed of Sport: Moderate.
2. Grid Pattern Dimensions: 30 by 30 feet.

H. Electric Power Distribution Requirements:
1. Electric Power: 480 V, 3 phase.
a. Balance load between phases. Install wiring to balance three phases at each support structure.
b. Include required overcurrent protective devices and individual lighting control for each sports field or venue. Determine from manufacturers' layout.
c. Maximum Total Load Energy Consumption: The kW consumption for the field lighting system shall be 31.96kW.

I. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage

J. Quality Assurance/Control Submittals:
1. Product Data: For each type of lighting product; include the following:
a. Lamp life, output, and energy-efficiency data. Energy data shall comply with IESNA LM-47.
b. Photometric data based on laboratory tests of each luminaire type, complete with lamps, ballasts, and accessories.
1) Photometric data shall be certified by manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products.
2. Delegated-Design Submittals: The following documents, signed and sealed by a qualified professional engineer:
a. Drawings and specifications for construction of lighting system.
b. Manufacturer's determination of LLF used in design calculations.
c. Structural analysis data and calculations used for pole selection.
1) Manufacturer Seismic Qualification Certification: Submit certification that sports lighting components and their mounting and anchorage provisions are designed to remain in place without separation of any parts when subjected to the seismic forces defined in Division 26 Section "Vibration and Seismic Controls for Electrical Systems" Include the following:
a) Basis for Certification: Indicate whether withstand certifications are based on actual test of assembled components or on calculation.
b) Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
2) Manufacturer Wind-Load Strength Certification: Submit certification that selected total support system, including poles, complies with Part 2 Article "Support Structures" and AASHTO LTS-5 for location of Project
d. Design calculations for the following:
1) Target illuminance.
2) Point calculations of horizontal and vertical illuminance, CV, and UG at minimum grid size and area.

3) Point calculations of horizontal and vertical illuminance in indicated areas of concern for spill light.
4) Calculations of source intensity of luminaires observed at eye level from indicated properties nearby the playing fields.
5) Short-circuit current calculations for rating of panelboards.
6) Total connected and estimated peak-demand electrical load, in kilowatts, of lighting system.
7) Capacity of feeder(s) required to supply the lighting system.

e. Wiring requirements, including required conductors and cables and wiring methods.

3. Manufacturer Certificates: Signed by manufacturers certifying that support structures, including brackets, arms, appurtenances, bases, anchorages, and foundations, comply with requirements.
4. Qualification Data: For installer, manufacturer, and professional engineer.
5. Field quality-control test reports.

1.5 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:

1.6 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
1. Operation and Maintenance Data: For sports lighting system components to include in emergency, operation, and maintenance manuals.
2. Warranty: Special warranty specified in this Section.
3. Extra Materials: Receipt for extra materials.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 100 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
1. Manufacturer's responsibilities include fabricating sports lighting and providing professional engineering services needed to assume engineering responsibility.
2. Engineering Responsibility: Preparation of delegated-design submittals and comprehensive engineering analysis by a qualified professional engineer.

C. Luminaire Photometric Data Testing Laboratory: Provided by manufacturers' laboratories that are accredited under the National Volunteer Laboratory Accreditation Program for Energy Efficient Lighting Products.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of luminaires, lamps, and luminaire alignment products and to correct misalignment that occurs subsequent to successful acceptance tests. Manufacturer may exclude lightning damage, hail damage, vandalism, abuse, and unauthorized repairs and alterations from special warranty coverage. Manufacturer may assume 150 hours per year of operation.
1. Luminaire Warranty: Luminaire and luminaire assembly (excluding fuses) shall be free from defects in materials and workmanship for a period of twenty-five years from date of Substantial Completion.

2. Lamp Warranty: Replace lamps that fail within twenty-five years from date of successful completion of acceptance tests.
3. Alignment Warranty: Accuracy of alignment of luminaires shall remain within specified illuminance uniformity ratios for a period of twenty-five ears from date of successful completion of acceptance tests.
    a. Realign luminaires that become misaligned during the warranty period.
    b. Replace alignment products that fail within the warranty period.
    c. Verify successful realignment of luminaires by retesting as specified in Part 3 "Field Quality Control" Article.
4. Illumination Level Warranty: Illumination level shall be at least specified target illuminance for a period of twenty-five years from date of successful completion of acceptance tests.
    a. Provide group replacement of lamps to restore specified target illuminance within the warranty period.
    b. Clean fixtures as specified in Annex D of IESNA RP-6 and as recommended by manufacturer to restore specified target illuminance within the warranty period.
    c. Verify illumination levels have been restored by retesting as specified in Part 3 "Field Quality Control" Article.
5. Illumination Uniformity Warranty: Illumination uniformity shall be at least specified CV and UG in primary playing area for a period of twenty-five years from date of successful completion of acceptance tests.
    a. Provide spot replacement of LED modules and or luminaires that fail within the warranty period.
    b. Verify illumination uniformity has been restored by retesting as specified in Part 3 "Field Quality Control" Article.

1.9 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, provide 10 years' full maintenance by skilled employees of manufacturer's designated service organization. Include annual inspection. Include routine preventive maintenance as recommended by manufacturer and adjusting as required for proper operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.

1.10 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
    1. Fuses: Equal to 10 percent of amount installed for each size indicated, but no fewer than 3 units.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    1. Musco Lighting, Inc.

B. Products of other manufacturers will be considered for acceptance only when allowed in Section 260050, General Electrical Requirements.

2.2 LUMINAIRES, LAMPS, AND BALLASTS

A. Luminaires: Listed and labeled, by an NRTL acceptable to authorities having jurisdiction, for compliance with UL 1598 for installation in wet locations.
    1. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit relamping without using tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent their accidental falling during relamping and when secured in operating position. Door shall be removable for cleaning or replacing lens.

2. Exposed Hardware: Stainless-steel latches, fasteners, and hinges.
3. Spill-Light Control Devices: Internal louvers and external baffles furnished by manufacturer and designed for secure attachment to specific luminaire.

B. LED Lamps:
1. 5700 Degrees Kelvin Correlated Color Temperature.
2. Lumen output as per manufacturer's requirements to meet performance requirements indicated in this Section with L70 depreciation.

C. Ballast Mounting: Grouped in cabinets, remote from location of associated luminaires, unless otherwise indicated.

2.3 SUPPORT STRUCTURES

A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.

B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.

C. System Description: Lighting system shall consist of the following:

1. Galvanized steel poles and cross-arm assembly.

2. Non-approved pole technology:

a. Square static cast concrete poles will not be accepted.

b. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long term performance concerns.

3. Lighting systems shall use concrete foundations. See Section 2.4 for details.

a. For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early pole erection, actual required minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.

b. For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-enforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.

4. Manufacturer will supply all drivers and supporting electrical equipment.

a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Integral drivers are not allowed.

b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.

5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.

6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.

7. Control cabinet to provide remote on-off control and monitoring. See Section 2.3 for further details.

8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.

   a. Integrated grounding via concrete encased electrode grounding system.

   b. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780.The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

D. Safety: All system components shall be UL listed for the appropriate application.

E. Provisions for Other Systems: Where video surveillance cameras or exterior loudspeakers are indicated, provide the following:
   1. 1 inch threaded hub at height of camera or loudspeaker.
   2. Hand hole opposite threaded hub.
   3. Mounting loops.
   4. Concrete Poles: Provide 1 inch rigid non-metallic conduit spun into pole instead of hand hole and mounting loops.
   5. For video surveillance cameras, provide NEMA 250, Type 4X enclosure at 10 feet above Grade for use by others.
   6. Poles F1 and F2 should each be designed to accommodate one type A speaker and one type B speaker on each pole. Speaker type A is 25” high by 25” wide by 31” deep with a weight of 125 pounds, mounted at 30 foot above base of pole. Speaker type B is 16” high by 16” wide by 16” deep with a weight of 50 pounds, mounted at 32 foot above base of pole.

F. Concrete for Pole Foundations: 3000-psi, 28-day minimum compressive strength. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."

G. Lightning Protection: Provide air terminal, down conductor, and ground terminal. Comply with NFPA 780.

2.4 POWER DISTRIBUTION

A. Wiring Method for Feeders, Subfeeders, Branch Circuits, and Control Wiring: Underground nonmetallic raceway; No. 10 AWG minimum conductor size for power wiring.

B. Electrical Enclosures Exposed to Weather: NEMA 250, Type 4 with hinged doors fitted with padlock hasps.

2.5 CONTROL SYSTEM

A. Remote Lighting Control System:
   1. System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.
   2. The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute “early off” commands by phone. Scheduling tool shall be capable of setting curfew limits.
   3. Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

B. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).

C. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of lamp outages, control operation and service. Scheduling including relamping operations completed and scheduled. Mobile application will be provided suitable for IOS or Android operating systems.
   1. Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.
      a. Cumulative hours: shall be tracked to show the total hours used by the facility.
      b. Current lamp hours: shall be tracked separately to reflect the amount of hours on the current set of lamps being used, so relamping can be scheduled accurately.
      c. Report hours saved by using early off and push buttons by users.

D. Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 10 years.

2.6 SURGE PROTECTION

A. Surge Protection: Include surge suppressors with the following requirements:
   1. Panelboard type.
   2. Nonmodular, with LED indicator lights.
   3. Peak Single-Impulse Surge Current Rating: 160 kA per phase.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with NECA 501.

B. Use web fabric slings (not chain or cable) to raise and set structural members.

C. Fasten each luminaire to structural supports.

D. Baffles and Louvers for Spill-Light Correction: Install on luminaires with fasteners provided by manufacturer. Install and adjust to correct out-of-limit spill-light and glare measurements.

E. Install controls and driver housings in cabinets mounted on support structure at least 10 feet above finished grade. Provide surge protection within this cabinet.

F. If any manufacturer requires more light fixtures per pole in order to meet the light levels indicated, the Contractor is responsible for installing properly sized conductors, conduit, and circuit breakers per the National Electric Code to power these fixtures.

G. Program control system for operation of the Exterior Athletic Lighting on each applicable field per the Owner's requirements.

3.2 FIELD QUALITY CONTROL

A. Perform the following field quality-control tests, inspections, and analysis according to IESNA RP-6 and IESNA LM-5, and prepare test reports:
   1. After installing sports lighting system and after electrical circuits have been energized, perform proof-of-performance field measurements and analysis for compliance with requirements.
   2. Lighting manufacturer shall provide a factory-trained representative to be available at the field site during installation. This representative shall also perform light test and summary report prior to final acceptance of project. The factory trained representative shall be on site during the Owner's final review of the installation. If the Owner and/or Engineer is not satisfied that the light levels and overall lighting uniformity meets the specifications, the factory trained representative shall assist the Contractor in re-aiming the light fixtures as required to meet the levels of the specification and the approval of the Owner and/or Engineer. Failure to do so will result in a non-acceptance of the installation.
   3. Playing and Other Designated Areas: Make field measurements at intersections of grids, dimensioned and located as specified in Part 1 "Performance Requirements" Article.
   4. Make field measurements at established test points in areas of concern for spill light and glare.
   5. Perform analysis to demonstrate correlation of field measurements with specified illumination quality and quantity values and corresponding computer-generated values that were submitted with engineered design documents, and submit a report of the analysis. For computer-generated values, use manufacturer's lamp lumens that are adjusted to lamp age at time of field testing.

B. Correction of Illumination Deficiencies for Playing Areas: Make corrections to illumination quality or quantity measured in field quality-control tests that vary from specified illumination criteria by plus or minus 10 percent or more; add or replace luminaires, or change mounting height, revise aiming, or install louvers, shields, or baffles. If luminaires are added or mounting height is changed, revise aiming and recalculate and modify or replace support structures, if indicated. Retest as specified above after repairs, adjustments, or replacements are made. Report results in writing.

C. Correction of Excessive Illumination in Spill-Light-Critical Areas: If measurements indicate that specified limits for spill light are exceeded, make corrections to illumination quantity measured in field quality-control tests that reduce levels to within specified maximum values. Replace luminaires, or change mounting heights, revise aiming, or install louvers, shields, or baffles. If mounting height is changed, revise aiming and recalculate and modify or replace support structures, if indicated. Retest as specified above after repairs, adjustments, or replacements are made. Report results in writing.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sports lighting. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 26 56 68

SECTION 28 31 11 – DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Fire-alarm control unit.
2. Manual fire-alarm boxes.
3. System smoke detectors.
4. Heat detectors.
5. Notification appliances.
6. Remote annunciator.
7. Addressable interface device.
8. Digital alarm communicator transmitter.
9. Fire alarm wire and cable.

1.2 DEFINITIONS

A. LED: Light-emitting diode.

B. NICET: National Institute for Certification in Engineering Technologies.

1.3 SYSTEM DESCRIPTION

A. Noncoded addressable system, with automatic sensitivity control of certain smoke detectors and multiplexed signal transmission, dedicated to fire-alarm service only.

1.4 SUBMITTALS

A. Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work. Submit simultaneously with Product Data. Include the following as a minimum shop drawing requirement.
1. Shop Drawings shall be prepared by persons with the following qualifications:
a. Trained and certified by manufacturer in fire-alarm system design.
b. NICET-certified fire-alarm technician, Level III minimum.
c. Licensed or certified by authorities having jurisdiction.
2. Comply with recommendations in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72.
3. Include voltage drop calculations for notification appliance circuits.
4. Include battery-size calculations.
5. Include performance parameters and installation details for each detector, verifying that each detector is listed for complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
6. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale and coordinating installation of duct smoke detectors and access to them. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators. Locate detectors according to manufacturer's written recommendations.
7. Include 1/8-inch scale floor plans to indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits.
8. Show details of graphic annunciators.
9. Provide written Warranty as follows
a. The Fire System shall have a 1 year warranty starting for the date of Beneficial Occupancy.
b. Batteries shall have a full 1-year warranty and a 10-year pro rata warranty starting for the date of Beneficial Occupancy.

B. Quality Assurance/Control Submittals:
   1. Product Data: For each type of product indicated.
   2. Qualification Data: Provide Certification form, from the manufacturer, that the Installer and Persons preparing Shop Drawings are Qualified by the manufacturer. Submit qualifications simultaneously with Product Data.
   3. Field quality-control reports.

1.5 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
   1. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
      a. Comply with the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
      b. Provide "Record of Completion Documents" according to NFPA 72 article "Permanent Records" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter.
      c. Record copy of site-specific software.
      d. Provide "Maintenance, Inspection and Testing Records" according to NFPA 72 article of the same name and include the following:
         1) Frequency of testing of installed components.
         2) Frequency of inspection of installed components.
         3) Requirements and recommendations related to results of maintenance.
         4) Manufacturer's user training manuals.
      e. Manufacturer's required maintenance related to system warranty requirements.
      f. Abbreviated operating instructions for mounting at fire-alarm control unit.
   2. Software and Firmware Operational Documentation:
      a. Software operating and upgrade manuals.
      b. Program Software Backup: On magnetic media or compact disk, complete with data files.
      c. Device address list.
      d. Printout of software application and graphic screens.
   3. Extra Materials: Receipt for extra materials.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.
   1. Installation shall be by personnel certified by NICET as fire-alarm Level II technician.
   2. Distributors shall also be certified by the manufacturer.

B. Source Limitations for Fire-Alarm System and Components: Obtain fire-alarm system from single source from single manufacturer.

C. Fire Alarm Wire and Cable Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   1. Flame-Spread Index: 25 or less.
   2. Smoke-Developed Index: 50 or less.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

1.7 SOFTWARE SERVICE AGREEMENT

A. Comply with UL 864.

B. Technical Support: Beginning with Substantial Completion, provide software support for two years.

C. Upgrade Service: Update software to latest version at Project completion. Install and program software upgrades that become available within two years from date of Substantial Completion. Upgrading software shall include operating system. Upgrade shall include new or revised licenses for use of software.
   1. Provide 30 days' notice to Owner to allow scheduling and access to system.

1.8 EXTRA MATERIALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Lamps for Remote Indicating Lamp Units: Quantity equal to 10 percent of amount installed, but no fewer than 1 unit.
   2. Lamps for Strobe Units: Quantity equal to 10 percent of amount installed, but no fewer than 1 unit.
   3. Smoke Detectors, Fire Detectors: Quantity equal to 10 percent of amount of each type installed, but no fewer than 1 unit of each type.
   4. Detector Bases: Quantity equal to 2 percent of amount of each type installed, but no fewer than 1 unit of each type.
   5. Keys and Tools: One extra set for access to locked and tamperproofed components.
   6. Audible and Visual Notification Appliances: One of each type installed.
   7. Fuses: Two of each type installed in the system.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. NOTIFIER; part of the Honeywell's Fire Systems Group.

2.2 SYSTEMS OPERATIONAL DESCRIPTION

A. Fire-alarm signal initiation shall be by one or more of the following devices and systems:
   1. Manual stations.
   2. Heat detectors.
   3. Smoke detectors.
   4. Duct smoke detectors.
   5. Automatic sprinkler system water flow.
   6. Heat detectors in elevator shaft and pit.
   7. Fire-extinguishing system operation, including kitchen hoods.
   8. Water flow switches

B. Fire-alarm signal shall initiate the following actions:
   1. Continuously operate alarm notification appliances.
   2. Identify alarm at fire-alarm control unit and remote annunciators.
   3. Transmit an alarm signal to the remote alarm receiving station.
   4. Unlock electric door locks in designated egress paths.
   5. Release fire and smoke doors held open by magnetic door holders.
   6. Switch designated heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
   7. Close smoke dampers in air ducts of designated air-handling duct systems.
   8. Transmit an alarm signal to building management system per air-handling systems zone.
   9. Recall elevators to primary or alternate recall floors by designated detectors.
   10. Activate elevator shunt-trip circuit breakers by designated detectors.
   11. Activate kitchen equipment shunt-trip circuit breakers on fire-extinguishing system operation.

12. Record events in the system memory.

C. Supervisory signal initiation shall be by one or more of the following devices and actions:
   1. Valve supervisory switch.
   2. Low-air-pressure switch of a dry-pipe sprinkler system.
   3. Elevator shunt-trip supervision.
   4. Kitchen equipment shunt-trip supervision.

D. System trouble signal initiation shall be by one or more of the following devices and actions:
   1. Open circuits, shorts, and grounds in designated circuits.
   2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
   3. Loss of primary power at fire-alarm control unit.
   4. Ground or a single break in fire-alarm control unit internal circuits.
   5. Abnormal ac voltage at fire-alarm control unit.
   6. Break in standby battery circuitry.
   7. Failure of battery charging.
   8. Abnormal position of any switch at fire-alarm control unit or annunciator.
   9. First Responder Unit – Low Battery (Supervisory)..
   10. First Responder Unit – Loss of Power (supervisory)..

E. System Trouble and Supervisory Signal Actions: Initiate notification appliance and annunciate at fire-alarm control unit and remote annunciators. Record the event on system printer.

2.3 FIRE-ALARM CONTROL UNIT

A. General Requirements for Fire-Alarm Control Unit:
   1. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.
      a. System software and programs shall be held in flash electrically erasable programmable read-only memory (EEPROM), retaining the information through failure of primary and secondary power supplies.
      b. Include a real-time clock for time annotation of events on the event recorder and printer.
   2. Addressable initiation devices that communicate device identity and status.
      a. Smoke sensors shall additionally communicate sensitivity setting and allow for adjustment of sensitivity at fire-alarm control unit.
      b. Temperature sensors shall additionally test for and communicate the sensitivity range of the device.
   3. Addressable control circuits for operation of mechanical equipment.

B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
   1. Annunciator and Display: Liquid-crystal type, 2 line(s) of 40 characters, minimum.
   2. Keypad: Arranged to permit entry and execution of programming, display, and control commands and to indicate control commands to be entered into the system for control of smoke-detector sensitivity and other parameters.

C. Circuits:
   1. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
      a. Initiating Device Circuits: Style A.
      b. Notification Appliance Circuits: Style Y.
      c. Signaling Line Circuits: Style 4.
      d. Install no more than 70 percent rated capacity of addressable devices on each signaling line circuit.
      e. Install no more than 70 percent rated capacity of notification appliances on each notification appliance circuit.

2. Serial Interfaces: Two RS-232 ports for service modem and printer.

D. Elevator Recall:
1. Smoke detectors at the following locations shall initiate automatic elevator recall.
a. Elevator lobby detectors except the lobby detector on the designated floor.
b. Smoke detector in elevator machine room.
c. Smoke detectors in elevator hoistway.
2. Elevator lobby detectors located on the designated recall floors shall be programmed to move the cars to the alternate recall floor.
3. Water-flow alarm connected to sprinkler in an elevator shaft and elevator machine room shall shut down elevators associated with the location without time delay.
a. Water-flow switch associated with the sprinkler in the elevator pit may have a delay to allow elevators to move to the designated floor.
4. Heat detectors in alarm installed in an elevator shaft and elevator machine room shall shut down elevators associated with the location without time delay.

E. Door Controls: Door hold-open devices that are controlled by smoke detectors at doors in smoke barrier walls shall be connected to fire-alarm system.

F. Remote Smoke-Detector Sensitivity Adjustment: Controls shall select specific addressable smoke detectors for adjustment, display their current status and sensitivity settings, and change those settings. Allow controls to be used to program repetitive, time-scheduled, and automated changes in sensitivity of specific detector groups. Record sensitivity adjustments and sensitivity-adjustment schedule changes in system memory, and print out the final adjusted values on system printer.

G. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.

H. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source.
1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.

I. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
1. Backup Battery: Premium, valve-regulated, recombinant-sealed, lead-calcium battery; spill proof; with a warranty per PART 1 above. Provide a single-stage, constant-voltage-current, limited battery charger, comply with battery manufacturer's written instructions for battery terminal voltage and charging current recommendations for maximum battery life.
2. Backup Power Supply Capacity: Comply with NFPA 72, but not less than 24 hours normal and 30 minutes alarm operation.

J. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.

2.4 MANUAL FIRE-ALARM BOXES

A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.
1. Single-action mechanism, pull-lever type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
2. Station Reset: Key- or wrench-operated switch.

3. Weatherproof Protective Shield: Factory-fabricated clear plastic enclosure hinged at the top to permit lifting for access to initiate an alarm.

2.5 SYSTEM SMOKE DETECTORS

A. General Requirements for System Smoke Detectors:
   1. Comply with UL 268; operating at 24-V dc, nominal.
   2. Detectors shall be four-wire type. If detectors are UL listed with the Fire Alarm Control Panel for power, alarm and trouble using a 2 wire system, then 2 wire detectors may be used.
   3. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
   4. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.
   5. Integral Visual-Indicating Light: LED type indicating detector has operated and power-on status.
   6. Remote Control: Unless otherwise indicated, detectors shall be analog-addressable type, individually monitored at fire-alarm control unit for calibration, sensitivity, and alarm condition and individually adjustable for sensitivity by fire-alarm control unit.
      a. Rate-of-rise temperature characteristic shall be selectable at fire-alarm control unit for 15 or 20 deg F per minute.
      b. Fixed-temperature sensing shall be independent of rate-of-rise sensing and shall be settable at fire-alarm control unit to operate at 135 or 155 deg F .
      c. Provide multiple levels of detection sensitivity for each sensor.

B. Photoelectric Smoke Detectors:
   1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
   2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
      a. Primary status.
      b. Device type.
      c. Present average value.
      d. Present sensitivity selected.
      e. Sensor range (normal, dirty, etc.).

C. Duct Smoke Detectors: Photoelectric type complying with UL 268A.
   1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
   2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
      a. Primary status.
      b. Device type.
      c. Present average value.
      d. Present sensitivity selected.
      e. Sensor range (normal, dirty, etc.).
   3. Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector.
   4. Each sensor shall have multiple levels of detection sensitivity.
   5. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.

2.6 HEAT DETECTORS

A. General Requirements for Heat Detectors: Comply with UL 521.

B. Heat Detector, Combination Type: Actuated by either a fixed temperature of 135 deg F or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.
   1. Mounting: Twist-lock base interchangeable with smoke-detector bases.
   2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.

C. Heat Detector, Fixed-Temperature Type: Actuated by temperature that exceeds a fixed temperature of 190 deg F.
   1. Mounting: Twist-lock base interchangeable with smoke-detector bases.
   2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.

2.7 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, with screw terminals for system connections, and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.
   1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated and with screw terminals for system connections.

B. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.

C. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- high letters on the lens.
   1. Rated Light Output: 110 cd, unless indicated otherwise.
   2. Mounting: Wall mounted unless otherwise indicated.
   3. For units with guards to prevent physical damage, light output ratings shall be determined with guards in place.
   4. Flashing shall be in a temporal pattern, synchronized with other units.
   5. Strobe Leads: Factory connected to screw terminals.
   6. Mounting Faceplate: Factory finished, red.

D. Weatherproof Bells: Electric-vibrating, 24-V dc, under-dome type; with provision for housing operating mechanism behind bell. Bells shall produce a sound-pressure level of 94 dBA, measured 10 feet from bell. 10-inch size, unless otherwise indicated.

2.8 NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY UNITS

A. General Requirements for Notification Appliance Circuit Power Supply Unit:
   1. Power-limited design, complying with UL 864 and listed and labeled by an NRTL.

B. Notification Appliance Circuits: NFPA 72, Class B, Style Y.
   1. Install no more than 70 percent rated capacity of notification appliances on each notification appliance circuit.

C. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, trouble signals, and supervisory signals shall be powered by 24-V dc source.
   1. Alarm current draw of entire notification appliance circuit power supply unit shall not exceed 80 percent of the power-supply module rating.

D. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.

1. Backup Battery: Premium, valve-regulated, recombinant-sealed, lead-calcium battery; spill proof; with a full 1-year warranty and a pro rata 19-year warranty. With single-stage, constant-voltage-current, limited battery charger, comply with battery manufacturer's written instructions for battery terminal voltage and charging current recommendations for maximum battery life.
2. Backup Power Supply Capacity: Comply with NFPA 72, but not less than 24 hours normal and 30 minutes alarm operation.

2.9 REMOTE ANNUNCIATOR

A. Description: Annunciator functions shall match those of fire-alarm control unit for alarm, supervisory, and trouble indications. Manual switching functions shall match those of fire-alarm control unit, including acknowledging, silencing, resetting, and testing.
1. Mounting: Flush cabinet, NEMA 250, Type 1.

B. Display Type and Functional Performance: Alphanumeric display and LED indicating lights shall match those of fire-alarm control unit. Provide controls to acknowledge, silence, reset, and test functions for alarm, supervisory, and trouble signals.
1. Graphic Map:
a. Graphic: Full color image printed on the reverse side of a 10 mil polycarbonate Lexan laminated to a 1/8-inch rigid backing with a removable adhesive for future replacement.
b. Frame: Black anodized aluminum frame with concealed security hanging system to prevent unauthorized removal.
c. Location of fire-alarm control unit, main graphic map and other graphic maps shall be shown in red with "YOU ARE HERE" printed in red. Detection devices, nomenclature, and building detail shall be color coded as selected by Owner and Architect/Engineer.
d. Mounting: Adjacent to remote annunciator.

2.10 ADDRESSABLE INTERFACE DEVICE

A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.

B. Integral Relay: Capable of providing a direct signal to the following:
1. Elevator controller to initiate elevator recall.
2. Circuit-breaker shunt trip for power shutdown.
3. Theatrical lighting controller for panic lighting.
4. Heating, ventilating, and air-conditioning equipment controllers for power shutdown.
5. Smoke dampers for closing.
6. Magnetic door holders, electric locks, coiling doors and grilles for releasing.
7. Building management system for equipment shutdown and alarm notification.
8. Gas and fuel solenoid valves for emergency shut-off.

C. Voltage Sensing Relay: Capable of detecting presence of 120 V ac for supervision of control power for shunt-trip circuit breakers.

2.11 DIGITAL ALARM COMMUNICATOR TRANSMITTER

A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.

B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from fire-alarm control unit and automatically capture one telephone line and dial a preset number for a remote central station. When contact is made with central station, signals shall be transmitted. If service is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of telephone line to the remote alarm receiving station over the alternative transmission path (if Ethernet or cellular radio dialer are both acceptable

technologies). Transmitter shall automatically report telephone service restoration to the central station..

C. Local functions and display at the digital alarm communicator transmitter shall include the following:
   1. Verification that both telephone lines are available.
   2. Programming device.
   3. LED display.
   4. Manual test report function and manual transmission clear indication.
   5. Communications failure with the central station or fire-alarm control unit.

D. Digital data transmission shall include the following:
   1. Address of the alarm-initiating device.
   2. Address of the supervisory signal.
   3. Address of the trouble-initiating device.
   4. Loss of ac supply or loss of power.
   5. Low battery.
   6. Abnormal test signal.
   7. Communication bus failure.

E. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

2.12 PATHWAYS

A. Conduit and Boxes: Comply with requirements in Division 26 Section "Raceway and Boxes for Electrical Systems."
   1. Outlet boxes shall be no smaller than 2 inches wide, 3 inches high, and 2-1/2 inches deep.

2.13 FIRE ALARM WIRE AND CABLE

A. General Wire and Cable Requirements: NRTL listed and labeled as complying with NFPA 70, Article 760.

B. Signaling Line Circuits: Twisted, shielded pair, not less than No. 18 AWG.

C. Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation.
   1. Low-Voltage Circuits: No. 16 AWG, minimum.
   2. Line-Voltage Circuits: No. 12 AWG, minimum.

2.14 IDENTIFICATION PRODUCTS

A. Comply with UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

B. Comply with requirements in Division 26 Section "Identification for Electrical Systems."

PART 3 - EXECUTION

3.1 INSTALLATION OF PATHWAYS

A. Comply with requirements in Division 26 Section "Raceway and Boxes for Electrical Systems." for installation of conduits and wireways.

3.2 FIRE ALARM WIRING INSTALLATION

A. Comply with NECA 1 and NFPA 72.

B. Wiring within Enclosures: Separate power-limited and non-power-limited conductors as recommended by manufacturer. Install conductors parallel with or at right angles to sides and back of the enclosure. Bundle, lace, and train conductors to terminal points with no excess. Connect conductors that are terminated, spliced, or interrupted in any enclosure associated with the fire alarm system to terminal blocks. Mark each terminal according to the system's wiring diagrams. Make all connections with approved crimp-on terminal spade lugs, pressure-type terminal blocks, or plug connectors.

C. Cable Taps: Use numbered terminal strips in junction, pull, and outlet boxes, cabinets, or equipment enclosures where circuit connections are made.

D. Color-Coding: Color-code fire alarm conductors differently from the normal building power wiring. Use one color-code for alarm circuit wiring and another for supervisory circuits. Color-code audible alarm-indicating circuits differently from alarm-initiating circuits. Use different colors for visible alarm-indicating devices. Paint fire alarm system junction boxes and covers red.

E. Wiring to Remote Alarm Transmitting Device: 1-inch conduit between the fire alarm control panel and the transmitter. Install number of conductors and electrical supervision for connecting wiring as needed to suit monitoring function.

3.3 EQUIPMENT INSTALLATION

A. Comply with NECA 305.

B. Comply with NFPA 72 for installation of fire-alarm equipment.

C. Equipment Mounting: Install wall-mounted equipment, with tops of cabinets not more than 72 inches above the finished floor.

D. HVAC: Locate detectors not closer than 3 feet from air-supply diffuser on return-air opening.

E. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend the full width of duct.
   1. Provide for air-handling units with capacity of 2000 cfm or greater.
   2. Provide for variable air volume type fan-powered terminal units served by return air plenums with capacity of 2000 cfm or greater.
   3. Provide within 5 feet of smoke dampers.

F. Heat Detectors in Elevator Shafts: Coordinate temperature rating and location with sprinkler rating and location.

G. Remote Status and Alarm Indicators: Install near each smoke detector and each sprinkler water-flow switch and valve-tamper switch that is not readily visible from normal viewing position.
   1. Install flush in ceiling below duct smoke detectors, unless otherwise indicated.
   2. Install in public space near device they monitor. Do not install in normally unoccupied spaces.

H. Audible Alarm-Indicating Devices: Install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.

I. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches below the ceiling.

J. Notification Appliance Circuit Power Supply Units: Provide quantity of units required for notification appliances indicated.
   1. Provide system smoke detector at each group of units.
   2. Provide 120 V, 20 A circuit to each unit.

K. Mechanical Equipment Rooms and Kitchens: Provide 190 deg F fixed heat detectors.

L. Device Location-Indicating Lights: Locate in public space near the device they monitor.

M. Fire-Alarm Control Unit: Surface mounted, with tops of cabinets not more than 72 inches above the finished floor.

N. Annunciator: Install with top of panel not more than 72 inches above the finished floor.

O. Sprinkler Bell: Install weatherproof bell at fire department connections.

P. Digital Alarm Communicator Transmitter: Where digital alarm communicator transmitter is not installed in fire-alarm control unit, provide 1-inch conduit between fire-alarm control unit and digital alarm communicator transmitter.

Q. Additional mounting heights are specified in Division 26 Section "Wiring Devices."

3.4 CONNECTIONS

A. For fire-protection systems related to overhead coiling fire doors and coiling counter fire doors in fire-rated walls and partitions and in smoke partitions, comply with requirements in Division 08 Section "Overhead Coiling Fire Doors" and Division 08 Section "Coiling Counter Fire Doors." Connect hardware and devices to fire-alarm system.
   1. Verify that hardware and devices are NRTL listed for use with fire-alarm system in this Section before making connections.

B. Make addressable connections with a supervised interface device to the following devices and systems. Install the interface device less than 3 feet from the device controlled. Make an addressable confirmation connection when such feedback is available at the device or system being controlled.
   1. Smoke dampers in air ducts of designated air-handling duct systems.
   2. Air-handling unit controllers of designated air-handling systems.
   3. Variable air volume type fan-powered box controllers of designated air-handling systems.
   4. Unlock electric door locks in designated egress paths.
   5. Release magnetic door holders.
   6. Activate circuit breaker shunt-trip to elevator controller.
   7. Activate circuit breaker shunt-trip to designate kitchen equipment.
   8. Alarm-initiating connection to building management system of designated air-handling duct system.
   9. Alarm-initiating connection to elevator recall system and components.
   10. Alarm-initiating connection to overhead coiling fire doors and coiling counter fire doors.
   11. Supervisory connections at valve supervisory switches.
   12. Supervisory connections at low-air-pressure switch of each dry-pipe sprinkler system.
   13. Supervisory connections at elevator shunt trip breaker.
   14. Supervisory connections at kitchen equipment shunt trip breakers.

3.5 IDENTIFICATION

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

B. Install framed instructions in a location visible from fire-alarm control unit.

3.6 FIRESTOPPING

A. Comply with requirements in Division 07 Section "Firestopping."

3.7 GROUNDING

A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. An equipment grounding conductor shall be installed in the branch circuit from the main service ground to fire-alarm control unit.

3.8 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

B. Tests and Inspections:
   1. Visual Inspection: Conduct visual inspection prior to testing.
      a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
      b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.
   2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
   3. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.

C. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

D. Fire-alarm system will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

F. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

G. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

3.9 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

END OF SECTION 28 31 11

SECTION 31 20 00 - EARTHWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Excavation, filling, backfilling and compacting.
2. Trenching and trench backfilling.
3. Mass earthwork and rough grading.
4. Finish grading, including spreading of topsoil.
5. Dewatering.
6. Soil stabilization.
7. Testing and inspection.
8. ***Preparing subgrades and subbase for synthetic grass surfacing.***

B. Related Sections:

1. Division 00 Section “Geotechnical Data”.
2. Division 02 Section “Selective Site Demolition”.
3. Division 31 Section “Site Clearing”.
4. Division 31 Section “Erosion Control”.
5. Division 31 Section “Termite Control”.

1.2 QUALITY ASSURANCE

A. Testing and Inspection:

1. All testing and inspection shall be performed by an independent Geotechnical Engineering Consultant ("Geotechnical Engineer").
2. The Geotechnical Engineer is responsible for all testing, sampling and inspection.
3. The Geotechnical Engineer is responsible for approving materials, installation and procedures.
4. The Contractor is responsible for providing these services.
5. The Contractor is responsible for all coordination and scheduling with the Geotechnical Engineer.

B. Topsoil:

1. All topsoil shall be tested and approved by the Soil Scientist.
2. Refer to 1.3 Submittals for more information.

C. Any work in public right-of-way or other areas subject to the jurisdiction of any body shall be performed either to the requirements of that jurisdiction or to the requirements of this Specification, whichever is more stringent.

1.3 SUBMITTALS

A. All submittals shall be reviewed approved by Architect/Engineer and Geotechnical Engineer.

B. Product Data and Test Reports:

1. Field and laboratory tests and inspections.
2. Drainage fill: Include material specifications and sieve analysis. Include signed material certificate from manufacturer/supplier.
3. Chemical modification: Include material specifications and signed material certificate from manufacturer/supplier.
4. Geo-synthetic materials: Include material specifications and signed material certificate from manufacturer/supplier.

C. Topsoil:

1. Furnish topsoil analysis performed by a soil scientist.

   Approved Vendors:
   a. A&L Greatlakes Laboratories at 3505 Conestoga Dr. Fort Wayne, IN 46808.
   b. Lawn & Garden Soil Analysis at 682 North Pleasant Street, University of Massachusetts, Amherst, MA 01003.

2. Analysis shall state the following: (Refer to Part 2 for minimum requirements)

   a. Percentage of organic matter.
   b. Gradation of sand, silt and clay, Include USDA textural classification.
   c. Cation exchange capacity.
   d. Deleterious material.
   e. pH.
   f. Mineral and plant nutrient content (phosphorus, potassium, magnesium, calcium).
   g. Any requirements or recommendations necessary to make it suitable.
   h. Annual nutrient requirements and recommendations for evergreens shrubs, trees, and flowers. Soil test results without recommendations will be rejected.

3. This analysis is required for both on site and off site topsoil.
4. Samples of the topsoil shall be taken under the following conditions:

   a. Within four (4) weeks prior to placing topsoil, take three representative samples of proposed topsoil.
   b. Within one week after placing topsoil, take three representative samples of in-place topsoil.

c. All samples shall be taken in witness of the Owner, in areas approved by the Owner. Contractor to coordinate with Owner as required.

5. Provide copies of all topsoil analysis and recommendations to Owner and Architect/Engineer.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General:

1. All soil materials shall be approved by the Geotechnical Engineer.
2. All soil materials shall be suitable for each application.
3. Suitable soils are defined as soils which provide proper strength, compaction and drainage requirements and which are approved by the Geotechnical Engineer.
4. Fill material which is unsuitable due to excess moisture will not be classified as unsuitable if it can be dried to optimum moisture specified herein by manipulation, aeration or blending with other materials satisfactorily as approved by the Geotechnical Engineer.

B. Fill Materials:

1. Note: The following describes fill materials and their application for use. The materials shall be used for the listed applications, unless designated otherwise on the Drawings. If the Contractor has any questions or concerns regarding the materials or intended application, contact the Architect/Engineer for direction. Compaction requirements are the percentage of maximum dry density per ASTM D698 Standard Proctor Test, unless noted otherwise in the Geotechnical Report.
2. General fill:

   a. Suitable on-site or off-site fill material free of debris, roots, organic and frozen materials, and stones having a maximum dimension of 2”.
   b. Minimum compaction: 95%.
   c. Application: General filling and backfilling of excavations and trenches outside of the building.

3. Structural fill:

   a. Suitable on-site or off-site fill material free of debris, roots, organic and frozen materials, and stones having a maximum dimension of 2”.
   b. Minimum compaction: 100%.
   c. Application: Compacted subgrade under buildings, foundations and areas subject to structural loads.

4. Granular fill:

    a. Clean, natural or manufactured sand per requirements of INDOTSS Type "B" borrow, 4.75mm (No. 4) gradation. Pea gravel is not acceptable.
    b. Minimum compaction: 95%.
    c. Application: Backfilling of excavations and trenches which are under or within 5' of pavement, and underneath exterior concrete pavement, walks, curbs and slabs on grade.

5. Drainage Fill:

    a. General: Clean, washed fill sand with 100% passing the 4.75mm (No.4) sieve and no more than 5% passing the 0.075 mm (No. 200) sieve. Pea gravel or #53 stone are not acceptable.
    b. Minimum compaction: 95%.
    c. Application: Free draining material required for applications such as the outside of basement walls, the back side (earth side) of retaining walls and building slabs on grade.

6. Aggregate fill: Unless otherwise indicated, shall meet the following:

    a. Naturally or artificially graded mixture of natural or crushed gravel, crushed stone and natural or crushed sand.
    b. ASTM D2940, with 100 percent passing a 1 ½ inch sieve and not more than 8 percent passing a No. 200 sieve.
    c. Application: base course under concrete and other items per plans.

7. Permeable soil mix:

    a. Permeable soil mix to promote infiltrate and allow runoff to filter through media and sustain vegetation.
    b. Soil shall consist of the following:

        a) 50-60% sand.
        b) 20-30% compost.
        c) 20-30% topsoil.

    c. Clay is not permitted.
    d. Shall have a minimum permeability rate of 1.0 feet per day (0.5 inches per hour)
    e. Application: Rain Gardens and Bioswales.

C. Topsoil:

1. Topsoil shall be fertile, friable, natural surface soil obtained from well-drained areas and possessing characteristics of representative soils in the project vicinity that produce heavy growths of crops, grass or other vegetation.

2. Topsoil shall consist of friable loam, reasonably free of subsoil, clay lumps, brush, roots, weeds or other objectionable vegetation, stones or similar objects larger than 1-1/2" in any dimension, litter or other materials unsuitable or harmful to plant growth.
3. Supplement on-site topsoil with off-site topsoil as necessary.
4. Unless otherwise indicated, minimum compacted thickness in lawn areas is 4".
5. The mechanical analysis of topsoil shall be as follows:

    a. 1" mesh sieve size; 99%-100% passing.
    b. 1/4" mesh sieve size: 97%-99% passing.
    c. No. 100 mesh sieve size: 40%-60% passing.
    d. No. 200 mesh sieve size: 20%-40% passing.

6. The following minimum requirements shall also be met:

    a. Organic matter: 3-5%.
    b. pH: 6.5 to 7.3.
    c. Sand, silt, clay content: per USDA loam textural classification.
    d. Minerals and nutrients: Per Geotechnical Engineer or Soil Scientist recommendations and amendments suitable for use in local area.

D. Synthetic Grass Surfacing Base Materials: The base materials are critical to the performance of the entire synthetic grass surfacing system.

1. Soil Separator: A geo-textile fabric shall be placed over the entire subgrade and within the pipe trenches prior to installation of the base materials to minimize contamination of the aggregate and possible closing of the perforated drainage pipes.

2. Aggregate: the aggregate materials utilized to construct the field base must be properly graded, crushed stone to provide a balance between stability and permeability. A highly fractured material is desirable to provide the surface stability required. The graded aggregate particle sizes must be tightly controlled to fall within the bandwidth for all specified sieve sizes with sufficient fines to provide stability while still allowing for drainage.

a. Aggregate materials shall be approved by the Synthetic Grass Surfacing Manufacturer and comply with their requirements.

3. Compaction: The base materials should be thoroughly compacted to prevent differential settlement across the field. Minimum compaction levels should not be less than 90 percent density as measured by a standard proctor test or as required by the synthetic turf manufacturer. Special attention should be given to backfill compaction at any utility trenches that cross the field area.

4. Water Permeability: Water permeability rates for both the field's surfacing and the field base materials should be designed to accommodate the local weather. An adequate factor of safety should be utilized to provide initial infiltration rates for the completed field above those required by the local weather conditions.

E. Soil Separator Fabric:

1. Nonwoven, needle-punched geotextile fabric manufactured from polyolefins or polyesters per ASTM M288, suitable for subsurface drainage and other specified applications.

2. Application: subsurface drains and as specified in Contract Documents.
3. Specifications (values based on Mirafi 140N):

    a. Apparent opening size: 70 (U.S. Standard Sieve Size); ASTM D-4751-99A.
    b. Flow rate: 135 gpm/sf; ASTM D-4491-99A.
    c. Puncture strength: 65 lbs; ASTM D-4833-00.
    d. Mullen Burst: 225 lb/sq. in.
    e. Grab tensile/elongation: 155 lbs/50%.
    f. UV Resistance: 70% at 500 hours.

F. Geo-synthetic Reinforcement:

1. General: H-Series HX165 Geogrid as manufactured by Tensar International Corp., Atlanta Georgia.
2. Application: Soil stabilization as required and as recommended by the Geotechnical Engineer.

G. Chemical Modification:

1. General: INDOTSS 215.
2. Materials: Hydrated lime per INDOTSS 913.04(b) and Type I Portland cement per INDOTSS 901-01(b).
3. Quantity: 4.0 +/- 0.5% by dry unit mass of the soils.
4. Application: If Geotechnical report indicates that chemical modification may be needed for soil stabilization, then Contractor shall include provisions for chemical modification in their bid.

H. Other Materials:

1. All other materials not specifically described but not required for proper completion of the Work of this Section, shall be as selected by the Contractor subject to the approval of the Architect/Engineer and Geotechnical Engineer.

PART 3 - EXECUTION

3.1 REQUIREMENTS

A. General:

1. Weather: Do not perform earthwork activities during inclement weather.
2. Dust: Use all necessary and appropriate means, such as water sprinkling, as required to prevent dust from being a nuisance to the Owner, public and concurrent performance of other work on the site.
3. Conflicts: Should the preceding job conditions or other items specified herein because actual or possible conflicts, notify the Architect/Engineer immediately and do not proceed until such conflict has been resolved.

~~4. Refer to Division 31 Section "Termite Control" for termite protection requirements.~~

B. Preparation: Verify that the following has been completed prior to beginning earthwork:

1. Protective fencing has been installed for trees and vegetation to remain.
2 Site clearing (clearing and grubbing).
3. Selective site demolition.
4. Erosion and sediment control measures are in place.

C. Synthetic Grass Surfacing Subgrade Preparation: The subgrade should provide a stabilized foundation upon which base materials and subsequent components of playing field systems will be installed.

1. Provide pitched surface on which storm water is directed toward active drainage systems.

2. Shape and Compaction: Prior to placement of base materials, the subgrade shodu be shaped to an appropriate profile and compacted by proof rolling to obtain a firm even surface. Depressed areas should be filled and unsuitable materials removed and replaced with clean fill or aggregate. Compaction should be performed to achieve a minimum of 90 percent in accordance with ASTM D698 Standard Proctor Method. The appropriate moisture content must be maintained in the field subgrade to allow for optimal levels of compaction.

a. Proof-roll the subgrade in presence of Owner's Testing Agency and Synthetic Grass Surfacing Manufacturer. The Synthetic Grass Surfacing Manufacturer must approve the subgrade preparation before commencing drainage installation and aggregate subbase installation.

3. Subgrade (Rough) Planarity: the tolerances for the finished subgrade should not exceed 1/2 inch as measured by a 10 foot straight edge. Grading of the subgrade shall minimize ponding to the extent practical. The use of laser guided and controlled equipment is recommended to maintain planarity.

D. Protection:

1. For items indicated to remain, provide protection to prevent damage from construction activities. Any damage or destruction to items intended to remain intact shall be repaired or replaced to the satisfaction of the Owner at the Contractor's expense.
2. Topsoil: Protect placed topsoil from heavy machinery traffic. Remove and replace topsoil that is compacted by heavy machinery traffic.
3. Subgrade: Ditches and drains along the subgrade shall be maintained to drain effectively at all times. Repair subgrade of any ruts that may occur by reshaping and recompacting as required.
4. Utilities: Determine locations of existing utilities and the extent to which they may affect earthwork operations. Where service and utility lines are to remain, provide protection to prevent damage or disruption of services.
5. Damaged utilities shall be repaired immediately at the Contractor's expense.

6. Open excavation:

    a. The Contractor is responsible for ensuring all open excavations are properly barricaded and protected at all times. This includes work such as mass excavation and trenching, and also includes other potentially dangerous conditions such as retention ponds.
    b. Provide and install all necessary and appropriate means such as, but not limited to, signage, fencing, traffic barricades, and lighting to warn, discourage, and prevent danger to adjacent workers and general public.
    c. Unless otherwise indicated, install a minimum 6' 10-guage chain link fence around all open excavations, retention ponds, and other areas of potential danger, and maintain them while such conditions exist. Increase measures as required per site conditions.

3.2 LAYOUT

A. Surveyor: Secure the services of a licensed land surveyor, acceptable to the Architect/Engineer and Owner, to layout locations of building, parking areas, drive, walks, curbs, finish elevations and other work, including mechanical and electrical items that are to be installed on the project site.

B. References: Establish and maintain lines, corners, elevations and general reference points. Verify dimensions indicated on Drawings. If conflicts exist, immediately notify the Architect/Engineer before continuing work.

3.3 EXCESS WATER CONTROL

A. Excess moisture: If excess moisture is present in soils, do not resume operations until moisture content and density are reported to be satisfactory by the Geotechnical Engineer.

B. Flooding: Provide berms or channels to prevent flooding of subgrade. Promptly remove all water collecting in depressions.

C. Softened subgrade: Where soil has been softened or eroded by flooding or placement during inclement weather, remove all damaged areas and recompact as specified for fill and compaction.

D. Dewatering:

1. Provide and maintain ample means and devices with which to promptly remove and dispose of all water from every source entering the excavations or other parts of the work at all times during construction.
2. Dewater by means which will ensure dry excavations and the preservation of the final lines and grades at bottom of excavations, such as sump pumps, trenching, etc.
3. Do not use extreme measures or durations as to cause adverse effects to Project Site or adjoining properties.

3.4 CHEMICAL MODIFICATION

A. General:

1. Scarify and/or disc area to a depth of 12" prior to distributing modifiers.
2. Utilize screw type, cyclone, or pressure manifold type distributors to apply modifier.
3. Do not apply when wind conditions create potential hazards or transference of material to adjacent areas.
4. Mix modifiers with rotary speed mixers or disc harrow, and continue until a homogenous layer of the required thickness is obtained.
5. Compaction:

    a. Lime modified soils shall be compacted within 3 days.
    b. Cement modified soils shall be compacted within 30 minutes.

6. Observation and testing: Quantities of materials, placing, mixing, and compacting shall be, as recommended, observed and tested by the Geotechnical Engineer.

3.5 STOCKPILING

A. General:

1. See drawings for designated stockpiling areas. If Drawings do not designate specific areas, or areas shown are insufficient, contact Architect/Engineer for direction.
2. Stockpile earth materials in manners that will prevent intermixing of different materials and intrusion of trash, debris and organic materials.
3. Slope stockpiled materials to provide adequate surface drainage.
4. Install and maintain erosion control measures. Refer to drawings and Division 31 Section "Erosion Control". At a minimum, silt fence shall be installed around all stockpiled areas. Seed areas which are to remain stockpiled for extended periods of time.
5. Storage or stockpiling of materials on the subgrade is prohibited.

3.6 EXCAVATION

A. General:

1. Excavation shall conform to OSHA and all other applicable safety regulations.
2. Excavation shall conform to the dimensions and elevations indicated on the Drawings, except as specified herein.
3. Excavation shall extend sufficient distance from walls and footings to allow for placing and removal of forms, installation of services and inspection.
4. Remove unsuitable material below indicated depths and replace with suitable, compacted material or lean concrete, at the Architect/Engineer discretion.
5. Topsoil stripping: Strip topsoil to its depth from areas to be covered by building, by walks and by other work and where existing surface areas required grading in order to establish new elevations.

6. Subgrade: Unless otherwise indicated, excavate to following subgrades:

    a. Slab-on-grade: Sub-grade at bottom of drainage fill or at bottom of existing topsoil, whichever is lower.
    b. Drives and paving: Sub-grade at bottom of aggregate base.
    c. Footing: Sub-grade at indicated bottom of footing.
    d. Lawn area: Sub-grade 4" below indicated surface elevation.

3.7 TRENCHING

A. General:

1. All trenching shall conform to OSHA and all other applicable safety standards.
2. Verification:

    a. Contractor shall verify all existing grades, inverts, utilities, obstacles and topographical conditions prior to any trenching, excavation or underground installations.
    b. In the event existing conditions are such as to prevent installations in accordance with the Contract Documents, immediately notify the Architect/Engineer and await decision before continuing work.
    c. Architect/Engineer decision will be final and binding upon the Contractor, and installations shall be in accordance with same.

3. Saw cut existing pavements to proper width for trenching.
4. Legally dispose materials unsuitable for trench backfilling off-site.

B. Width:

1. Trenches for piping shall be not less than 12" wide or more than 16" wider than the outside diameter of the pipe to be laid therein, and shall be excavated true-to-line, so that a clear space not less than 6" or more than 8" in width is provided on each side of the pipe.
2. For sewers, the maximum width of trench specified shall apply to the width at and below the level at the top of the pipe. The width of the trench above that level may be made as wide as necessary for sheeting and bracing, and proper installation of the Work.
3. Trenches shall be open vertical construction.

C. Depth:

1. Trench as required to provide the elevations shown on the drawings.
2. Where elevations are not shown on the drawings, trench to sufficient depth to give a minimum of 36" of fill above the top of the pipes measured from the adjacent finish grade.
3. Where trench excavation is inadvertently carried below proper elevation, backfill with approved material and then compact to provide a firm and unyielding subgrade and/or foundation at no additional cost to the Owner.

D. Trench Bracing:

1. Properly support all trenches in strict accordance with all pertinent rules and regulations.
2. Brace, sheet, and support trench walls in such a manner that they will be safe and that the ground alongside the excavation will not slide or settle, and that all existing improvements of every kind, whether on public or private property, will be fully protected from damage.
3. In the event of damage to such improvements, immediately make all repairs and replacements necessary at no additional cost to the Owner.
4. Arrange all bracing, sheeting, and shoring so as to not place stress on any portion of the completed Work until the general construction thereof has proceeded far enough to provide sufficient strength.
5. All shoring and sheeting required to perform and protect the excavation and as required for the safety of employees and abutting structures shall be performed. All workmen performing work in 48" or deeper trench or excavation shall be protected by use of a welded sheet steel "safety box."
6. Removal: Exercise care in the drawing and removal of sheeting, shoring, bracing, and timbering to prevent collapse or caving of the excavation faces being supported.

E. Bedding:

1. Where pipes or conduits are to be installed, excavate below the proposed alignment of the pipe and backfill with clean sand to provide uniform support unless otherwise noted on the drawings.
2. Unless shown otherwise on Drawings, minimum bedding to be 4" below pipe.
3. Storm sewer pipes are to be bedded with stone.
4. Refer to drawings and details for further information and requirements.

F. Grading and Handling of Trenched Material:

1. During excavation, material shall be stacked in an orderly manner a sufficient distance back from edges of trenches to avoid overloading and prevent slides or cave-ins.
2. Control the temporary stockpiling of trenched material in a manner to prevent water from running into the excavations.
3. Do not obstruct the surface drainage but provide means whereby stormwater is diverted into existing gutters, surface drains or other temporary drains.
4. Any water accumulated in the trenches shall be removed by pumping or by other approved methods.

3.8 FILLING, BACKFILLING AND COMPACTING

A. Prior to filling, backfilling and compacting, proof-roll and remediate subgrade per Part 3 Quality Assurance.

B. Unless otherwise indicated, maximum lift thickness is 8" of un-compacted material.

C. Moisture:

1. Thoroughly mix each layer to assure uniformity of material.
2. Supplement mixing with wetting or drying as required to obtain the moisture content required for the indicated percentages of compaction.
3. All fill shall be placed so that the moisture content is within +/- 2% of the optimum moisture content according to ASTM D698.
4. Do not use frozen materials in the fill or allow the fill to be placed upon frozen materials.

D. Compaction:

1. Compaction shall be accomplished by approved means and shall meet the following densities for various parts of the Work. See Part 2 for density requirements of individual soil materials.
2. Compaction by flooding is not acceptable.
3. In cut areas where pavement is planned, scarify the upper 12” of subgrade prior to compaction.

E. Equipment:

1. Tracked equipment shall not be used as compaction equipment.
2. The static weight of compaction equipment utilized for the compaction of backfill materials near walls as defined in No.3 below shall not exceed 2,000 lbs. for non-vibratory equipment and 1,000 lbs. for vibratory equipment.
3. All heavy equipment, including compaction equipment heavier than noted herein, shall not be allowed closer to walls than 3 feet plus the vertical distance from backfill surface to the bottom of the wall.

3.9 GRADING

A. General:

1. After filling and backfilling operations are complete, neatly and evenly grade areas to be seeded or sodded.
2. Scarify subgrade to a depth of 6” and place minimum 4” topsoil (6” maximum).
3. Grade to obtain the elevations indicated within a tolerance of plus or minus 0.1 foot.
4. Slope finished subgrade surface to provide drainage away from building walls.

B. Treatment After Completion of Grading:

1. After grading is completed and inspected, permit no further excavation, filling, or grading except with the review of and the inspection by the Owner.
2. Use all necessary means to prevent the erosion of freshly graded areas during construction and until such time as permanent drainage and erosion control measures have been installed.

C. Synthetic Grass Surfacing Aggregate Subbase: Installation of the aggregate base should provide a close, evenly textured surface meeting the required tolerances.

1. Construction: Care should be taken to ensure there is not disturbance to the subgrade and no displacement of the soil separator. All disturbed, displaced, or damaged material is to be repaired or replaced.

2. Placement: The aggregate base should be placed in a manner that will produce an evenly graded mass to the depth specified. The material should be constructed in tow lifts not over 6 inches in depth when compacting across the entire field area and when spread by appropriate equipment and methods. Aggregate base should be thoroughly and uniformly compacted with a self-propelled roller to achieve the specified density. The material should be placed and distributed so that there will be no pockets of uniform size solid material. Any pockets resulting from segregation of the stone during installation should be reworked.

3. Compaction: Comply with ASTM D698 or D2922. The field base materials should be thoroughly compacted to prevent any significant differential settlement across the entire synthetic grass surfacing. Minimum compaction levels are 95 percent Standard Proctor for base materials.

4. Finish-Grade Planarity: Comply with ASTM F2157. The tolerances for the finished surface of the base stone should not exceed 1/4 inch measured in any direction by a 10 foot straight edge. Hollows and depressions should be filled with acceptable material and re-compacted. The use of laser guided and controlled equipment will be required to maintain planarity of finished subbase. Documentation should be provided showing compliance with planarity requirements. The Synthetic Grass Surfacing Manufacturer shall revie and approve the subbase installation before commencing installation of the synthetic grass surface.

3.10 QUALITY ASSURANCE

A. Coordination:

1. A representative from the Geotechnical Engineer shall be present to observe and perform tests at all times earthwork is in progress.
2. Contractor shall provide minimum 72 hour notice to Geotechnical Engineer before each operation requiring testing or inspection.

B. Testing:

1. To verify adequacy of compaction, the Geotechnical Engineer shall perform field density tests.
2. A grid pattern shall be established with a maximum area of 1,000 square feet.
3. For each grid, provide minimum one test per each lift of compacted material.

C. Proofrolling:

1. Proofrolling shall be supervised by the Geotechnical Engineer.

2. Since standard test procedures are not available for proofrolling, the necessary scope and method of testing shall be determined by the Geotechnical Engineer, subject to review by the Architect/Engineer.
3. In areas to be covered by buildings and other site improvements, and other areas deemed necessary by the Geotechnical Engineer or Architect/Engineer, prepare and test subgrade as follows:

    a. Using a loaded tri-axle dump truck or other approved method, the Contractor shall proof-roll the exposed subgrade under the observation of the Geotechnical Engineer.
    b. Based on this observation, plus supplemental testing as required, the Geotechnical Engineer shall determine when and where soft, loose or other undesirable materials are to be removed and replaced.

D. Approval and Remediation:

1. When testing and proofrolling indicate proper compaction has been obtained, and after approval from Geotechnical Engineer has been given, continue fill and backfill work until the indicated elevation is achieved.
2. If required density has not obtained, the Contractor shall remove the defective material and repeat operations until the required density is obtained and approval is given by the Geotechnical Engineer.
3. Cost of material removal, replacement, compaction and re-testing shall be the responsibility of the Contractor.

3.11 SURPLUS SOIL MATERIALS

A. Unless otherwise indicated or directed by Owner, remove excess soil materials and legally dispose of off-site.

3.12 JOB COMPLETION

A. Upon completion of the Work of this Section:

1. Remove all trash and debris from earthwork operations.
2. Remove surplus equipment and tools.
3. Leave the site in a neat and orderly condition.
4. Restore all adjacent areas disrupted by earthwork activities to their original condition.

END OF SECTION 31 20 00

SECTION 33 46 00 - SUBDRAINAGE

PART I - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Subsurface drains for yard areas.
2. Subsurface drains for pavement areas.
3. Retaining wall foundation drains.
4. ~~***Building foundation perimeter drains.***~~
5. Underslab subdrainage systems.
6. ***Subsurface drainage systems for Synthetic Grass Surfacing.***

B. Related Sections:

1. Division 31 Section “Earthwork”.
2. Division 33 Section “Storm Drainage”.
3. Division 33 Section “Common Results for Utilities”.

1.2 SUBMITTALS

A. Each item in submittal must state that the item meets or exceeds the specified standards referenced herein. If multiple sizes or types are included in the submittal, clearly indicate which is to be used, and where, if applicable.

B. Product Data:

1. Subsurface drainage pipe, tubing, fittings and joint materials.
2. Cleanouts.
3. Geotextile fabric materials.
4. Pumps for underslab drainage systems.
5. ***Drainage systems for Synthetic Grass Surfacing***

C. Coordination Drawings:

1. For underslab drainage systems, prepare drawings showing horizontal and vertical relationship to all other utilities, plumbing, ~~***foundation***~~s or other work affected by or in vicinity of proposed underslab drainage.

D. Testing and inspection reports.

1.3 DELIVERY, STORAGE AND HANDLING

A. Protect all materials from UV exposure at all times

B. Store materials off the ground and protect from moisture, sediment and other deleterious conditions.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General:

1. Unless otherwise indicated, pipe sizes refer to the nominal inside diameter.
2. Unless otherwise indicated, the following materials shall be used as described below.

B. Perforated Pipe and Fittings:

1. Polyethylene (single wall):

a. AASHTO M252, Type CP, standard band couplings.
b. Application: Lawn and pavement areas only.

2. Polyethylene (double wall):

a. AASHTO M252, Type SP, smooth interior wall, standard band couplings.
b. Application: ~~***Foundation***~~ and underslab drainage systems.

3. Polyvinyl chloride:

a. Contech A2000 or equal, joints per manufacture requirements.
b. Application: ~~***Foundation***~~ and underslab drainage systems.

C. Non-Perforated Pipe and Fittings:

1. Polyvinyl chloride (PVC):

a. SDR 35 ASTM D1784, ASTM D3034.
b. Compression type bell and spigot joints ASTM D3212, ASTM F477 gaskets.
c. Application: Headers for underslab drainage systems or as indicated on the Drawings.

2. High density polyethylene (HDPE):

    a. ASTM D3350 and AASHTO M294 Type S, corrugated with smooth interior wall.
    b. Silt-tight joints ASTM D3212, ASTM F477 gaskets.
    c. Application: Headers for underslab drainage systems or as indicated on the Drawings.

D. Flat pipe for synthetic grass surfacing turf field underdrain: Flat pipe drain panels shall be 1 inch x 12 inch corrugated AdvanEdge pipe system as manufactured by ADS, Hillard, Ohio or similar system manufactured by Synthetic Turf System manufacturer.

1. The drainage system shall provide sufficient drainage of the entire playing surface to meet local weather conditions.
2. Components: Flat pipe drain panels and collector pipes.
3. The design of the drainage system shall use the Rational Method, Hydrograph Analysis or Time Series Method to determine the rainfall runoff that must be accommodated by system.
4. The design storm frequency should be as required by local regulations or where no local regulation exist a minimum of 5 year design storm frequency is recommended for playing fields at grade.
5. Flow Time: The time interval for water to flow through the complete system (synthetic turf, base materials, flat pipes) to the collector pipes is based on permeability tests.

E. Special Couplings: Join pipe and fittings of different materials and dimensions with appropriate couplings made for each application.

F. Soil Separator Geotextile Fabric:

1. Refer to Division 31 Section "Earthwork".
2. Perforated pipe with pre-installed geotextile fabric (i.e. filter socks) is not acceptable.
3. The geotextile fabric shall not be wrapped directly around subsurface piping. Place a minimum 6" of washed #8 stone between the drain and the geotextile unless indicated otherwise. Refer to Drawings for more information and typical details.

4. Fabric of PP or polyester fibers or combination of both with flow rate range from 110 to 330 gpm/sq.ft. when tested in accordance with ASTM D 4491.

    a. Structure Type: Nonwoven, needle-punched continuous filament or woven, monofilament or multifilament.
    b. Styles: Flat and sock.

~~***G. Interior Cleanouts:***~~

~~***1. General: J.R. Smith 4021. Nickel bronze frame and cover and bronze, countersunk tapered-thread plug. Spigot, no hub or "Speedi-Set" connection.***~~
~~***2. Riser and connection fittings: ASTM A74, cast iron soil pipe and fittings.***~~
~~***3. Carpeted floors: J.R. Smith 4021-Y.***~~
~~***4. Other floors: Cleanout and cover to be compatible with flooring material.***~~

H. Exterior Cleanouts:

1. Unless otherwise indicated, cleanouts shall be the same diameter as the sewer they serve for pipe sizes up to 8", pipes greater than 8" shall use an 8" cleanout.
2. Unless otherwise indicated, riser pipes and cleanout bodies shall be the same material as the sewer they serve.
3. Each cleanout shall have an exterior housing to prevent transfer of load to the cleanout.
4. Medium duty housings may be used in non-vehicular areas, all others shall be heavy duty.
5. Exterior housing:

    a. ASME A112.36.2M gray iron with round, secured, scoriated, gray iron cover.
    b. Refer to Part 3 for concrete anchorage.

6. Cast iron cleanouts:

    a. Gray iron ferrule with tapered-thread, brass closure plug, ASME A112.36.2M.
    b. Riser pipe and fittings: cast iron soil pipe, ASTM A74.
    c. Ferrule connection may be inside caulk, spigot or no-hub; however, connection must be water and air-tight.

7. Plastic cleanouts:

    a. PVC body with PVC tapered-thread plug.
    b. Riser pipe and fittings: SDR 35, ASTM D3034.

I. Soil Materials: Refer to Division 31 Section "Earthwork".

PART 3 - EXECUTION

3.1 GENERAL

A. Excavating, trenching, and backfilling are specified in Division 31 Section "Earthwork."

B. Refer to Drawings for typical earthwork and subdrainage details.

C. Preparation:

1. Verify waterproofing is installed, where applicable, before beginning work.
2. Examine surfaces and areas for suitable conditions where subdrains will be installed and correct unsatisfactory conditions prior to installation.
3. Prior to placement of the geotextile fabric, prepare the subgrade to a smooth condition free of large rocks, debris or other materials that may damage or compromise the function or properties of the fabric.

D. General:

1. The minimum overlap for geotextile fabric is 18" in any direction unless indicated otherwise.
2. If the fabric is torn, punctured or otherwise damaged during installation, install new fabric that is large enough to extend at least 18" beyond the damaged area in all directions.
3. Once the fabric has been installed, cover immediately. Do not leave exposed to UV radiation, rain, sediment or other sources of damage or disturbance.

3.2 YARD AND PAVEMENT INSTALLATIONS

A. Minimum cover is 24" from top of drain pipe to top of finished grade unless indicated otherwise.

B. See Drawings for trenching and bedding details.

3.3 RETAINING WALLS ~~***AND BUILDING FOUNDATIONS***~~

A. Impervious Fill:

1. After concrete footings have been cured and the forms removed, place impervious fill material on subgrade adjacent to bottom of footing and over top of drainage fill at top of wall backfill.
2. Place and compact impervious fill to dimensions indicated, but not less than 12 inches (150 mm) deep and width of drainage fill.

B. Drainage Fill:

1. Before installing drainage fill, lay geotextile fabric on bottom and sides of footing, unless otherwise shown on Drawings.
2. Place supporting layer of drainage fill over compacted subgrade to compacted depth of not less than 4 inches, unless otherwise shown on Drawings.
3. After installing drainage piping, add drainage fill to width of at least 6 inches on side away from wall and to top of pipe to perform tests.
4. After satisfactory testing, cover piping to width of at least 6 inches (150 mm) on side away from footing and above top of pipe to within 12 inches (300 mm) of finish grade.
5. After installing drainage fill and pipe, wrap top of drainage fill with flat-style geotextile fabric, wrap lap edges at least 4 inches.

C. Fill to Grade:

1. Place impervious material over compacted drainage fill to within 12" of finished grade.
2. Place material in loose-depth layers not exceeding 6 inches (150 mm) and compact per specifications.
3. Refer to Drawings for elevations, ensure impervious fill and final grade slope away from building.

3.4 UNDERSLAB DRAINAGE SYSTEMS

A. General:

1. Excavate for underslab drainage system after footings have been installed and subgrade is brought to appropriate grade.
2. Include horizontal distance of at least 6 inches between drainage pipe and trench walls.
3. Grade bottom of trench excavations to required slope and compact to firm, solid bed for drainage system.

B. Drainage Fill:

1. Before installing drainage fill, lay geotextile fabric over subbase and along trench walls, overlap sides per manufacturer and supplier requirements and recommendations.
2. Place supporting layer of drainage fill over compacted subgrade to compacted depth of not less than 4 inches.
3. After installing drainage piping, add drainage fill to top of pipe to perform tests.
4. After satisfactory testing, cover piping with drainage fill to elevation of bottom of slab and compact drainage material.
5. After installing drainage fill and piping, wrap edges of drainage fill with flat-style soil separator fabric turned up at the perimeter.

3.5 SYNTHETIC GRASS SURFACING DRAINAGE INSTALLATION

A. Install drainage pipe main lines with a horizontal distance of at least 6 inches between pipe and trench walls. Grade bottom of trench excavations to required slope and compact to firm, solid bed for drainage system.

B. Following installation of filter fabric over field subgrade install flat pipe drain system at 15 feet on center and lay over top of perimeter mainline piping.

C. Drainage fill: Place supporting layer of drainage fill over trench bottom to compacted depth of not less than 4 inches. After installing drainage piping, add drainage fill to top of pipe. Encase pipe with geotextile filter fabric before installing pipe. Seal sock sections as recommended by manufacturer.

3.6 PIPING INSTALLATION

A. General:

1. Install piping beginning at low points of system, true to grades and alignment indicated, with unbroken continuity of invert.
2. Bed piping with full bearing in filtering material.
3. Install gaskets, seals, sleeves, and couplings according to manufacturer’s written instructions and other requirements indicated.

~~***4. Foundation Drainage System: Install piping pitched down in direction of flow, as indicated on the Drawings and with a minimum cover of 36 inches, unless otherwise noted.***~~

5. Underslab Drainage System: Install piping pitched down in direction of flow, as indicated on the drawings.
6. Install perforated pipe with perforations down.
7. Use increases, reducers, and couplings made for different sizes or materials of pipes and fittings being connected. Reduction of pipe size in direction of flow is prohibited.

B. See Drawings for installation details.

3.7 CLEANOUT INSTALLATION

A. General:

1. Install cleanouts and riser extensions from subdrainage piping to grade or slab.
2. Locate cleanouts at beginning of piping run and at changes in direction.
3. Install fittings so cleanouts open in direction of flow in piping.
4. Ensure cleanouts are installed properly to prevent load transfer to riser pipe.

B. Interior:

1. Adjust location of cleanouts to make accessible and avoid conflict with walls, housekeeping pads, equipment and similar items. Contact Architect/Engineer if any areas of question exist or if further direction is needed.
2. Set cleanout frames and covers flush with new floor elevation.
3. Verify type of flooring with architectural, structural and interior finish plans and ensure proper cleanout cover and elevation are provided per the type of flooring.

C. Exterior:

1. Install piping so cleanouts open in direction of flow in sewer pipe.
2. Set cleanout covers flush with grade.
3. In areas other than concrete walks and concrete pavements, install concrete anchor pad.
4. Unless otherwise indicated, pad dimensions are 12” height with a diameter of the cleanout housing diameter + 12”, to provide a 6” ring around the cleanout frame.
5. Place pad on properly compacted subgrade and stone per Division 31 Section “Earthwork” and Division 32 Section “Site Concrete”.

3.8 CONNECTIONS

A. Piping installation requirements are specified in Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Where indicated and required, connect low elevations of foundation and underslab drainage to stormwater sump pumps.

3.9 CLEANING

A. Clear interior of installed piping and structures of dirt and other superfluous material as work progresses. Maintain swab or drag in piping and pull past each joint as it is completed. Place plugs in ends of uncompleted pipe at end of each day or when work stops.

END OF SECTION 33 46 00

ARCHITECTURAL/SITE ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

@	AT	M	METER
AC	AIR CONDITIONING	MAS	MASONRY
ACT	ACOUSTICAL CEILING TILE	MAT	MATERIAL
AD	AREA DRAIN	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFP	ACCORDION FOLDING PARTITION	MEZZ	MEZZANINE
AGG	AGGREGATE	MFR	MANUFACTURER
ALT	ALTERNATIVE	MH	MOP HOLDER
AL	ALUMINUM	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
APROX	APPROXIMATE	MM	MILLIMETER
AR	ACID RESISTANT	MO	MASONRY OPENING
ARCH	ARCHITECT(URAL)	MTL	METAL
ASPH	ASPHALT		
AV	AUDIO-VISUAL	N	NORTH
AWG	AMERICAN WIRE GUAGE	NIC	NOT IN CONTRACT
AWT	ACCOUSTICAL WALL TREATMENT	NO/#	NUMBER
L	ANGLE	NOM	NOMINAL
&	AND	NTS	NOT TO SCALE
BIT	BITUMINOUS	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
BM	BENCH MARK / BEAM	OPP	OPPOSITE
B.O.	BOTTOM OF	O.H.	OPPOSITE HAND
BOS	BOTTOM OF STEEL	O TO O	OUT TO OUT
BOT	BOTTOM	OW	OPERABLE WALL
BRG	BEARING	OZ	OUNCE
BRK	BRICK		
BUR	BUILT-UP ROOF	P	PAINT
		PA	PUBLIC ADDRESS
CAB	CABINET	PERF	PERFORATED
CAR	CARPET	PLAS	PLASTIC
CAT	CATALOG	PL	PLASTIC LAMINATE
CB	CHALKBOARD / CATCH BASIN	PLBG	PLUMBING
CFM	CUBIC FEET PER MINUTE	PLYWD	PLYWOOD
CH	CABINET HEATER	PREFAB	PREFABRICATED
CI	CAST IRON	PS	PROJECTION SCREEN
CJ	CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	PSS	PENCIL SHARPENER SUPPORT
CLG	CEILING	PT	PORCELAIN TILE
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CMT	CERAMIC MOSAIC TILE	PVMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT	QT	QUARRY TILE
COL	COLUMN		
COMP	COMPACTED	R	RISER
CONC	CONCRETE	RA	RETURN AIR
CONSTR	CONSTRUCTION	RAD/R	RADIUS
CONT	CONTINUOUS/CONTINUE	RB	RESILIENT BASE
CONTR	CONTRACTOR	RCP	REINFORCED CONCRETE PIPE
CORR	CORRUGATED	RD	ROOF DRAIN
CT	CERAMIC TILE	REF	REFERENCE
C TO C	CENTER TO CENTER	REFR	REFRIGERATOR
CSK	COUNTER SINK	REINF	REINFORCING
CU FT/CF	CUBIC FEET	REQ'D	REQUIRED
CU IN/CI	CUBIC INCH	REV	REVISION(S)
CU YD/CY	CUBIC YARD	RM	ROOM
CUSP	CUSPIDOR	R.O.	ROUGH OPENING
CW	COLD WATER	ROW	RIGHT-OF-WAY
CWF	CEMENTITIOUS WOOD FIBER		
		S	SOUTH
d	PENNY (NAILS, ETC.)	SA	SUPPLY AIR
D	DEPTH/DEEP	SAN	SANITARY
°	DEGREE	SCHED	SCHEDULE
DC	DISPLAY CASE	SD	STORM DRAIN / SMOKE DETECTOR
DEPT	DEPT	SECT	SECTION
DET	DETAIL	SEW	SEWER
DF	DRINKING FOUNTAIN	SGFT	STRUCTURAL GLAZED FACING TILE
DIA/ Ø	DIAMETER	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DIV	DIVISION	SP	SPACE
DL	DEAD LOAD	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SPKR	SPEAKER
DS	DOWNSPOUT	SQ	SQUARE
DWC	DRINKING WATER COOLER	SQ FT/SF	SQUARE FEET
		SQ IN/SI	SQUARE INCHES
E	EAST	SQ YD/SY	SQUARE YARDS
EA	EACH	SS	STAINLESS STEEL
EF	EACH FACE	ST	STORM/STREET
EJ	EXPANSION JOINT	STD	STANDARD
EL	ELEVATION	STL	STEEL
ELEC	ELECTRIC(AL)	STRUCT	STRUCTURAL
ELEV	ELEVATOR	SUSP	SUSPENDED
ENGR	ENGINEER	SW	SHORT WAY / SIDEWALK
EP	ELECTRICAL PANELBOARD	SYMM	SYMMETRY(ICAL)
EQ	EQUAL	SYNTH	SYNTHETIC
EQUIP	EQUIPMENT		
EW	EACH WAY	T	TREAD
EFS (or DEFS)	DIRECT APPLIED EXTERIOR FINISH SYSTEM	T&B	TOP AND BOTTOM
EIFS	EXTERIOR INSULATION FINISH SYSTEM	T&G	TONGUE AND GROOVE
EXH	EXHAUST	TA	TOILET ACCESSORY(IES)
EXIST	EXISTING	TB	TACKBOARD
EXP	EXPANSION	TC	TOP OF CURB
EXT	EXTERIOR	TEL	TELEPHONE
EXTN	EXTENSION	TERR	TERRAZZO
		T.O.	TOP OF
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET	TOF	TOP OF FOOTING
FIN	FINISH	TOM	TOP OF MASONRY
FIN FL	FINISH FLOOR	TOS	TOP OF STEEL
FLR	FLOOR	TV	TELEVISION
FDN	FOUNDATION	TYP	TYPICAL
FSR	FLEXIBLE SHEET ROOFING	TWS	TACKABLE WALL SURFACE
FSSK	FLOOR SERVICE SINK		
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	UV	UNIT VENTILATOR
FE	FIRE EXTINGUISHER	UR	URINAL
FEC	FIRE EXTINGUISHER CABINET		
		VCT	VINYL COMPOSITE TILE
GA	GAUGE	VCGWB	VINYL COVERED GYPSUM WALLBOARD
GALV	GALVANIZED(D)	VERT	VERTICAL
GB	GRAB BAR	VFWC	VINYL FABRIC WALLCOVERING
GFCMU	GROUND FACE CONCRETE MASONRY UNIT	VIF	VERIFY IN FIELD
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT	VIT	VITREOUS
GL	GLASS	VOL	VOLUME
GWB	GYPSUM WALLBOARD	VR	VAPOR RETARDER
		VRB	VENTED RESILIENT BASE
H	HEIGHT/HIGH	VS	VENT STACK
HB	HOSE BIB	VT	VINYL STACK
HDWE	HARDWARE		
HM	HOLLOW METAL	W	WEST / WIDE / WIDTH
HORIZ	HORIZONTAL	W/	WITH
HPT	HIGH POINT	W/O	WITHOUT
HS	HIGH STRENGTH	WA	WARDROBE ACCESSORIES
HTG	HEATING	WB	WOOD BASE
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WC	WATER CLOSET / WIND COLUMN
HW	HOT WATER	WD	WOOD
HWY	HIGHWAY	WH	WATER HEATER
		WP	WORKING POINT
ID	INSIDE DIAMETER	WSSK	WALL SERVICE SINK
IN	INCH	WWF	WELDED WIRE FABRIC
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION	YD	YARD / YARD DRAIN
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB#	POUND		
LKR	LOCKER		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LVR	LOUVER		
LW	LONG WAY		

MATERIAL SYMBOLS LEGEND

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- ASPHALT
- EARTH
- GRAVEL, STONE, OR DRAINAGE FILL
- SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK
- CONCRETE
- TERRAZZO
- CUT STONE
- MARBLE
- SLATE
- FACE BRICK (PLAN)
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- METAL ROOF DECK
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTICAL TILE CEILING
- EXTERIROR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- SIM 1A / A-400 — CALLOUT
- 1 — REVISION TAG
- A — ROOF TYPE TAG
- 1t — EQUIPMENT TAG
- SIM 1A / A-300 — BUILDING/WALL SECTION
- X1 — CEILING TAG
- SIM 1A / A-300 — DETAIL SECTION
- ? — KEY NOTE TAG
- XXXX — DOOR TAG
- SLOPE 1/12 — ROOF SLOPE TAG
- X / X### — MATCHLINE VIEW REFERENCE
- X / AX.XX / X — EXTERIOR ELEVATION
- W##X — WALL TAG
- X Ref / X Ref AX.XX X Ref / X Ref — INTERIOR ELEVATION
- 1t — STOREFRONT TAG
- X — GRID HEAD
- XX — WINDOW TAG
- Name / EL. XXX'-XX" — LEVEL LINE
- 101 — ROOM TAG
- 811 — EXISTING CONTOUR
- 811 — NEW CONTOUR
- TB#1 — TEST BORING & NO.
- 811.9 — EXISTING POINT ELEVATION
- 811.9 — NEW POINT ELEVATION
- 11 — STORM SEWER INLETS

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M-001 SYMBOLS & ABBREVIATIONS

MV11A FIRST FLOOR VENTILATION PLAN - UNIT A
MV11B FIRST FLOOR VENTILATION PLAN - UNIT B
MV11C FIRST FLOOR VENTILATION PLAN - UNIT C
MV11D FIRST FLOOR VENTILATION PLAN - UNIT D
MV11E FIRST FLOOR VENTILATION PLAN - UNIT E
MV11F FIRST FLOOR VENTILATION PLAN - UNIT F
MV12A SECOND FLOOR VENTILATION PLAN - UNIT A
MV12B SECOND FLOOR VENTILATION PLAN - UNIT B
MV12C SECOND FLOOR VENTILATION PLAN - UNIT C
MV12D SECOND FLOOR VENTILATION PLAN - UNIT D
MV12E SECOND FLOOR VENTILATION PLAN - UNIT E
MV12F SECOND FLOOR VENTILATION PLAN - UNIT F
MP11A FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A
MP11B FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B
MP11C FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C
MP11D FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT D
MP11E FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT E
MP11F FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT F
MP12A SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT A
MP12B SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B
MP12C SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT C
MP12D SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT D
MP12E SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT E
MP12F SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT F
MR101 MECHANICAL ROOF PLAN
MS101 MECHANICAL SITE PLAN

M-301 MECHANICAL SECTIONS
M-302 MECHANICAL SECTIONS
M-303 MECHANICAL SECTIONS

M-401 ENLARGED CONSESSION BUILDING - UNIT G

M-501 MECHANICAL DETAILS
M-502 MECHANICAL DETAILS
M-503 MECHANICAL DETAILS

M-601 MECHANICAL SCHEDULES
M-602 MECHANICAL SCHEDULES

M-701 MECHANICAL SCHEMATICS

M-901 MECHANICAL ISOMETRICS
M-902 MECHANICAL ISOMETRICS
M-903 MECHANICAL ISOMETRICS

09 ELECTRICAL
E-001 ELECTRICAL SYMBOLS & ABBREVIATIONS
ES101 ELECTRICAL SITE PLAN
ED101 ELECTRICAL DEMO PLAN

ET11A FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A
ET11B FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B
ET11C FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C
ET11D FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D
ET11E FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E
ET11F FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F
ET11G FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - CONCESSIONS AND PRESSBOX
ET12A SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A
ET12B SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B
ET12C SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C
ET12D SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D
ET12E SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT E
ET12F SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT F
ET501 TECHNOLOGY ROUGH-IN DETAILS
ET502 TECHNOLOGY ROUGH-IN DETAILS
ET503 TECHNOLOGY ROUGH-IN DETAILS
ET504 TECHNOLOGY ROUGH-IN DETAILS
EL11A FIRST FLOOR LIGHTING PLAN - UNIT A
EL11B FIRST FLOOR LIGHTING PLAN - UNIT B
EL11C FIRST FLOOR LIGHTING PLAN - UNIT C
EL11D FIRST FLOOR LIGHTING PLAN - UNIT D
EL11E FIRST FLOOR LIGHTING PLAN - UNIT E
EL11F FIRST FLOOR LIGHTING PLAN - UNIT F
EL12A SECOND FLOOR LIGHTING PLAN - UNIT A
EL12B SECOND FLOOR LIGHTING PLAN - UNIT B
EL12C SECOND FLOOR LIGHTING PLAN - UNIT C
EL12D SECOND FLOOR LIGHTING PLAN - UNIT D
EL12E SECOND FLOOR LIGHTING PLAN - UNIT E
EL12F SECOND FLOOR LIGHTING PLAN - UNIT F
EP11A FIRST FLOOR POWER PLAN - UNIT A
EP11B FIRST FLOOR POWER PLAN - UNIT B
EP11C FIRST FLOOR POWER PLAN - UNIT C
EP11D FIRST FLOOR POWER PLAN - UNIT D
EP11E FIRST FLOOR POWER PLAN - UNIT E
EP11F FIRST FLOOR POWER PLAN - UNIT F
EP12A SECOND FLOOR POWER PLAN - UNIT A
EP12B SECOND FLOOR POWER PLAN - UNIT B
EP12C SECOND FLOOR POWER PLAN - UNIT C
EP12D SECOND FLOOR POWER PLAN - UNIT D
EP12E SECOND FLOOR POWER PLAN - UNIT E
EP12F SECOND FLOOR POWER PLAN - UNIT F
EF11A FIRST FLOOR FIRE ALARM PLAN - UNIT A
EF11B FIRST FLOOR FIRE ALARM PLAN - UNIT B
EF11C FIRST FLOOR FIRE ALARM PLAN - UNIT C
EF11D FIRST FLOOR FIRE ALARM PLAN - UNIT D
EF11E FIRST FLOOR FIRE ALARM PLAN - UNIT E
EF11F FIRST FLOOR FIRE ALARM PLAN - UNIT F
EF12A SECOND FLOOR FIRE ALARM PLAN UNIT A
EF12B SECOND FLOOR FIRE ALARM PLAN UNIT B
EF12C SECOND FLOOR FIRE ALARM PLAN UNIT C
EF12D SECOND FLOOR FIRE ALARM PLAN UNIT D
EF12E SECOND FLOOR FIRE ALARM PLAN UNIT E
EF12F SECOND FLOOR FIRE ALARM PLAN UNIT F

E-401 KITCHEN POWER PLAN
E-402 CONCESSION AND PRESSBOX PLANS - UNIT G AND H
E-403 STAGE LIGHTING PLAN

E-501 ELECTRICAL DETAILS
E-502 ELECTRICAL DETAILS
E-503 SEQUENCE OF OPERATIONS

E-601 LUMINAIRE SCHEDULES
E-602 PANELBOARD SCHEDULES
E-603 PANELBOARD SCHEDULES
E-604 PANELBOARD SCHEDULES
E-605 PANELBOARD SCHEDULES
E-606 PANELBOARD SCHEDULES
E-607 PANELBOARD SCHEDULES

4 E-701 ELECTRICAL ONE-LINE DIAGRAM
4 E-702 STAGE LIGHTING ONE-LINE DIAGRAM

10 TECHNOLOGY
T-001 TECHNOLOGY SYMBOLS & ABBREVIATIONS
TS101 TECHNOLOGY SITE PLAN

T-101 OVERALL FIRST FLOOR TECHNOLOGY PLAN
T-102 OVERALL SECOND FLOOR TECHNOLOGY PLAN
T-103 OVERALL FIRST FLOOR CABLE TRAY AND SLEEVE PLAN
T-104 OVERALL SECOND FLOOR CABLE TRAY AND SLEEVE PLAN
T-11A FIRST FLOOR TECHNOLOGY PLAN - UNIT A
T-11B FIRST FLOOR TECHNOLOGY PLAN - UNIT B
T-11C FIRST FLOOR TECHNOLOGY PLAN - UNIT C
T-11D FIRST FLOOR TECHNOLOGY PLAN - UNIT D
T-11E FIRST FLOOR TECHNOLOGY PLAN - UNIT E
T-11F FIRST FLOOR TECHNOLOGY PLAN - UNIT F
T-11G FIRST FLOOR TECHNOLOGY PLAN - CONCESSIONS AND PRESSBOX
T-12A SECOND FLOOR TECHNOLOGY PLAN - UNIT A
T-12B SECOND FLOOR TECHNOLOGY PLAN - UNIT B
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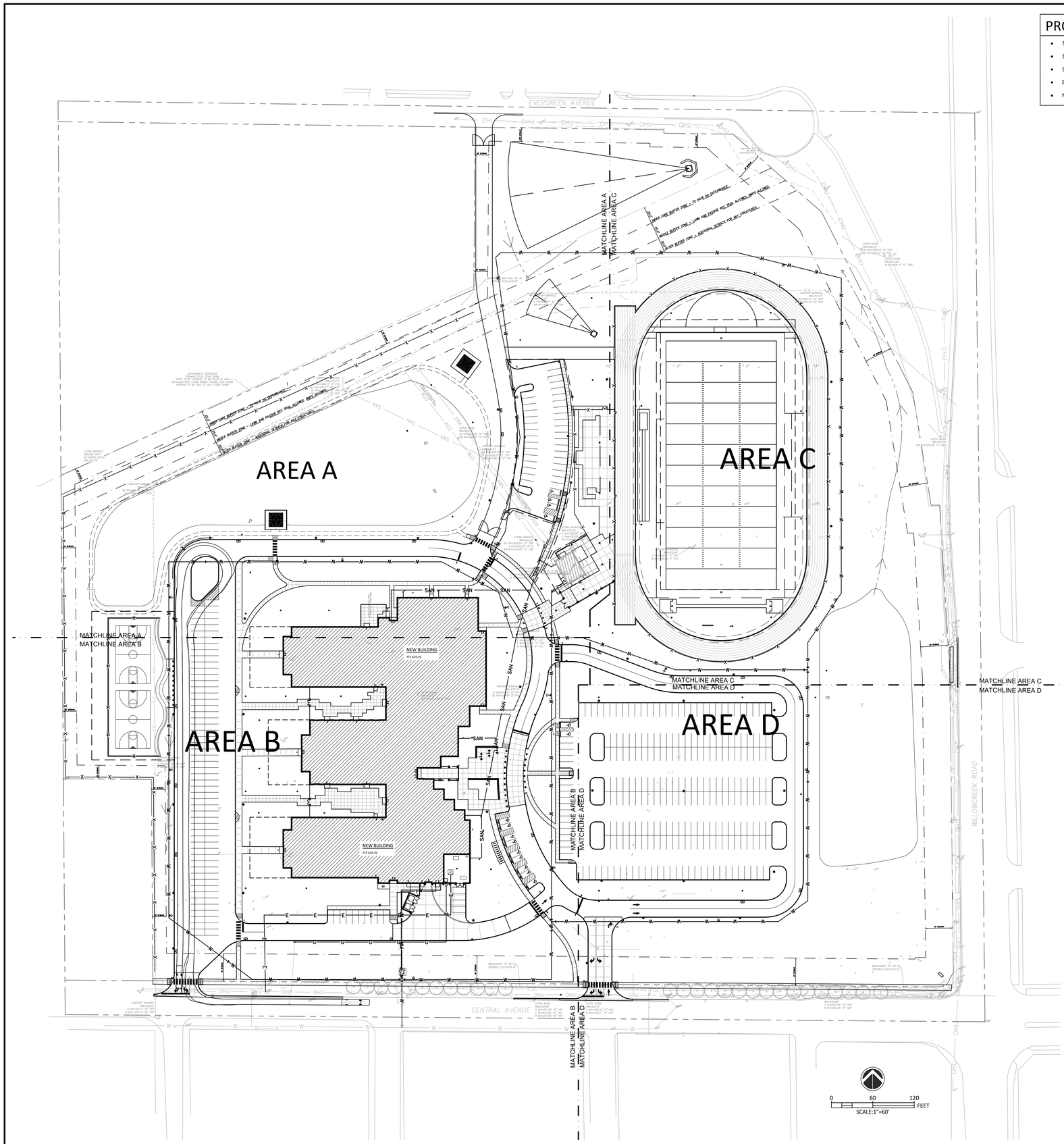
T-12D SECOND FLOOR TECHNOLOGY PLAN - UNIT D
T-12E SECOND FLOOR TECHNOLOGY PLAN - UNIT E
T-12F SECOND FLOOR TECHNOLOGY PLAN - UNIT F

T-501 TECHNOLOGY DETAILS
T-502 TECHNOLOGY DETAILS
T-503 TECH



PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

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15. NEW FIRE HYDRANT

△2

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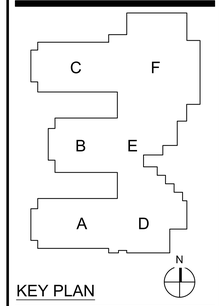

KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. SWANSON
REGISTERED
No.
PE10200271
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 4	11-24-2025

OVERALL SITE UTILITY PLAN

C400

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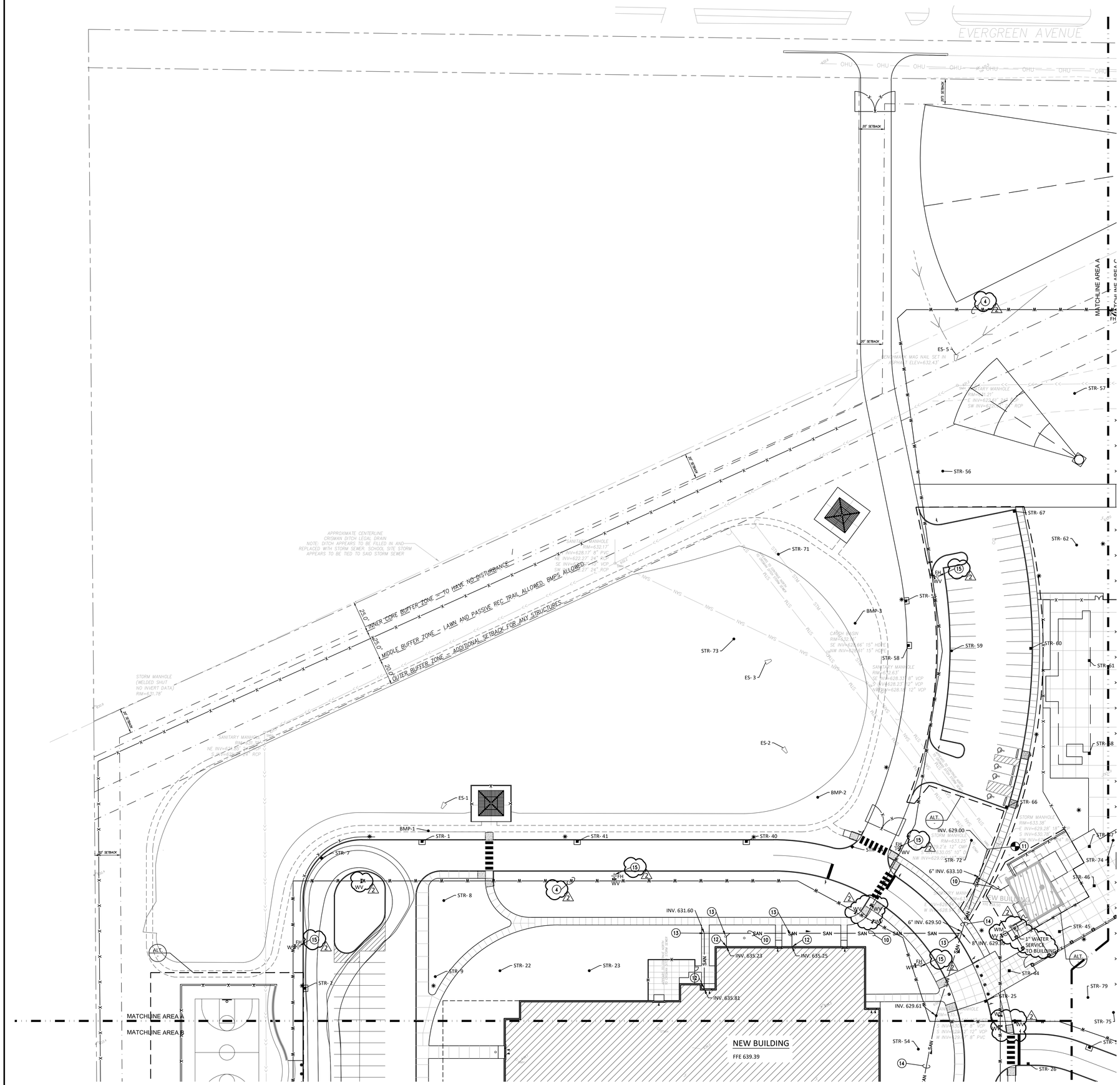

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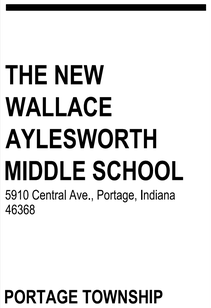
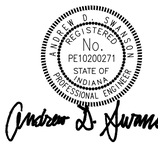


KEY PLAN

CONSTRUCTION DOCUMENTS



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PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 4	11-24-2025

SITE UTILITY PLAN AREA 'A'

C401

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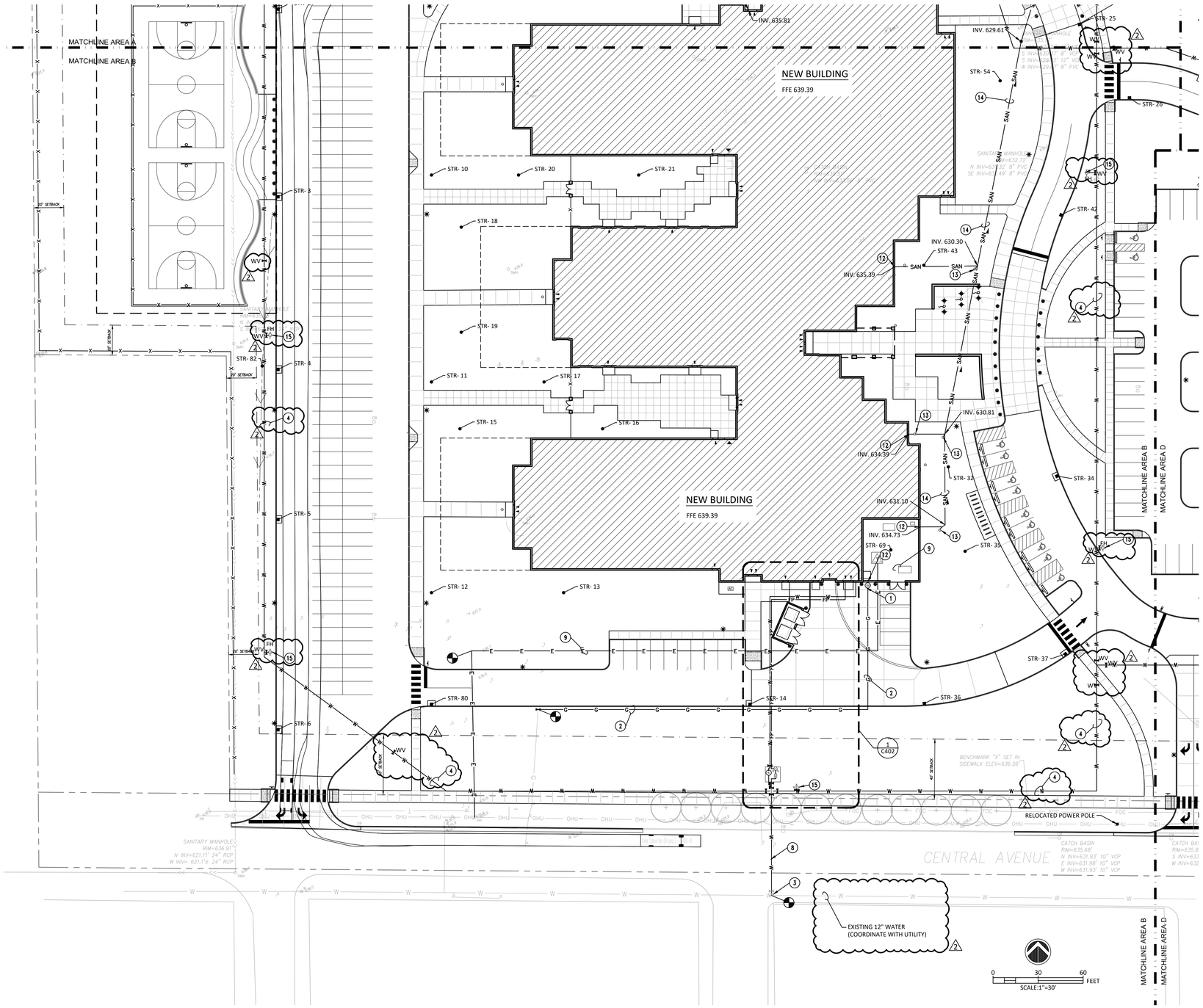

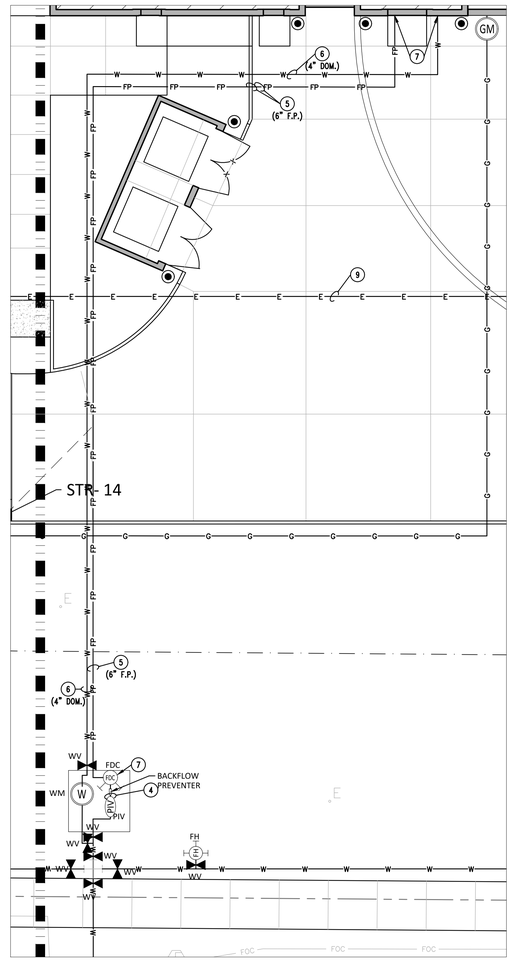

1 ENLARGEMENT
SCALE: 1"=10'

THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

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PORTAGE TOWNSHIP SCHOOLS

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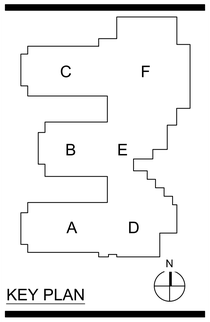

KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 4	11-24-2025

SITE UTILITY PLAN AREA 'B'

C402

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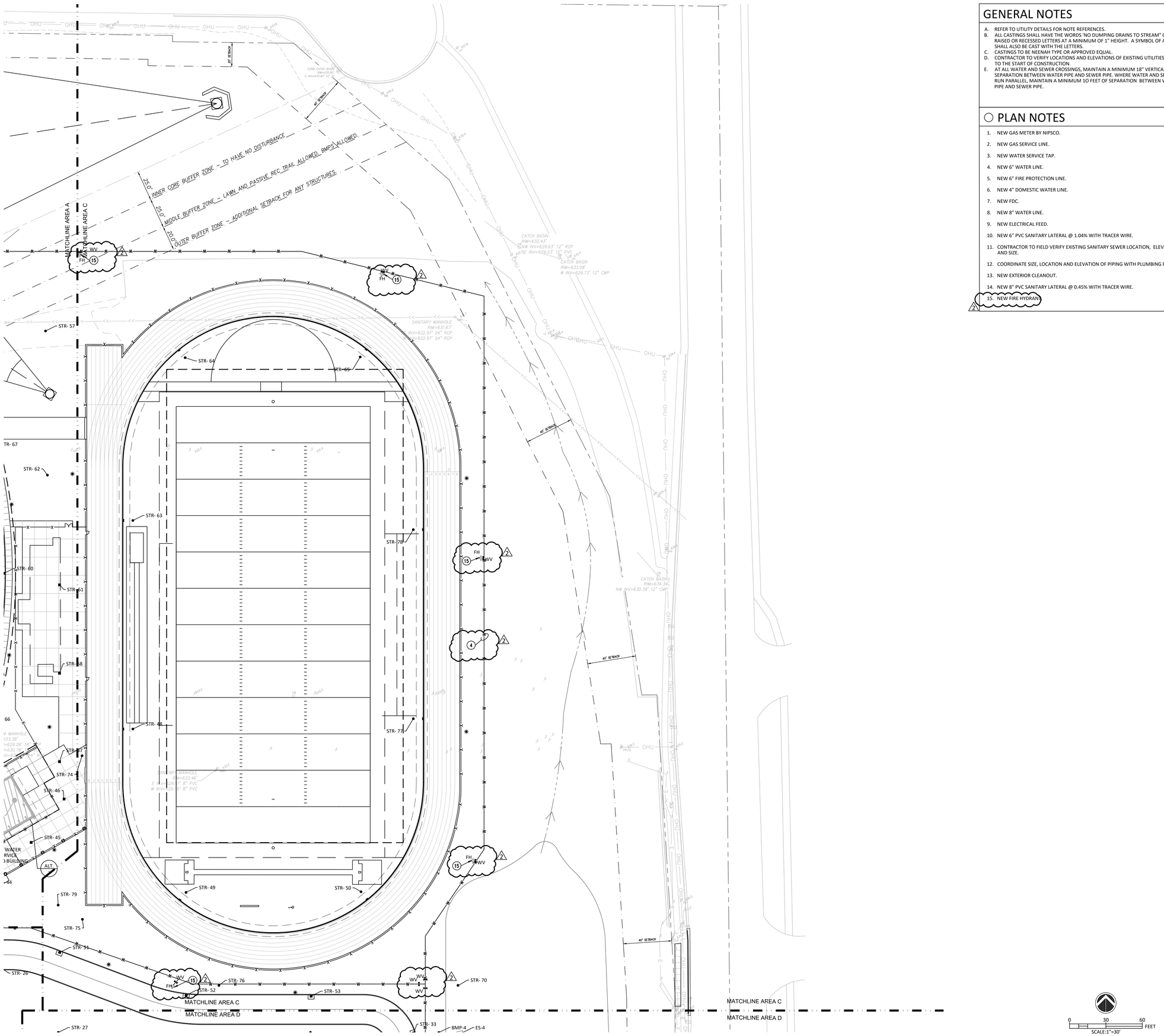

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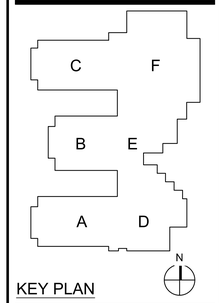

KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

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REV. NO.	DESCRIPTION	DATE
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2	ADDENDUM 4	11-24-2025

SITE UTILITY PLAN AREA 'C'

C403

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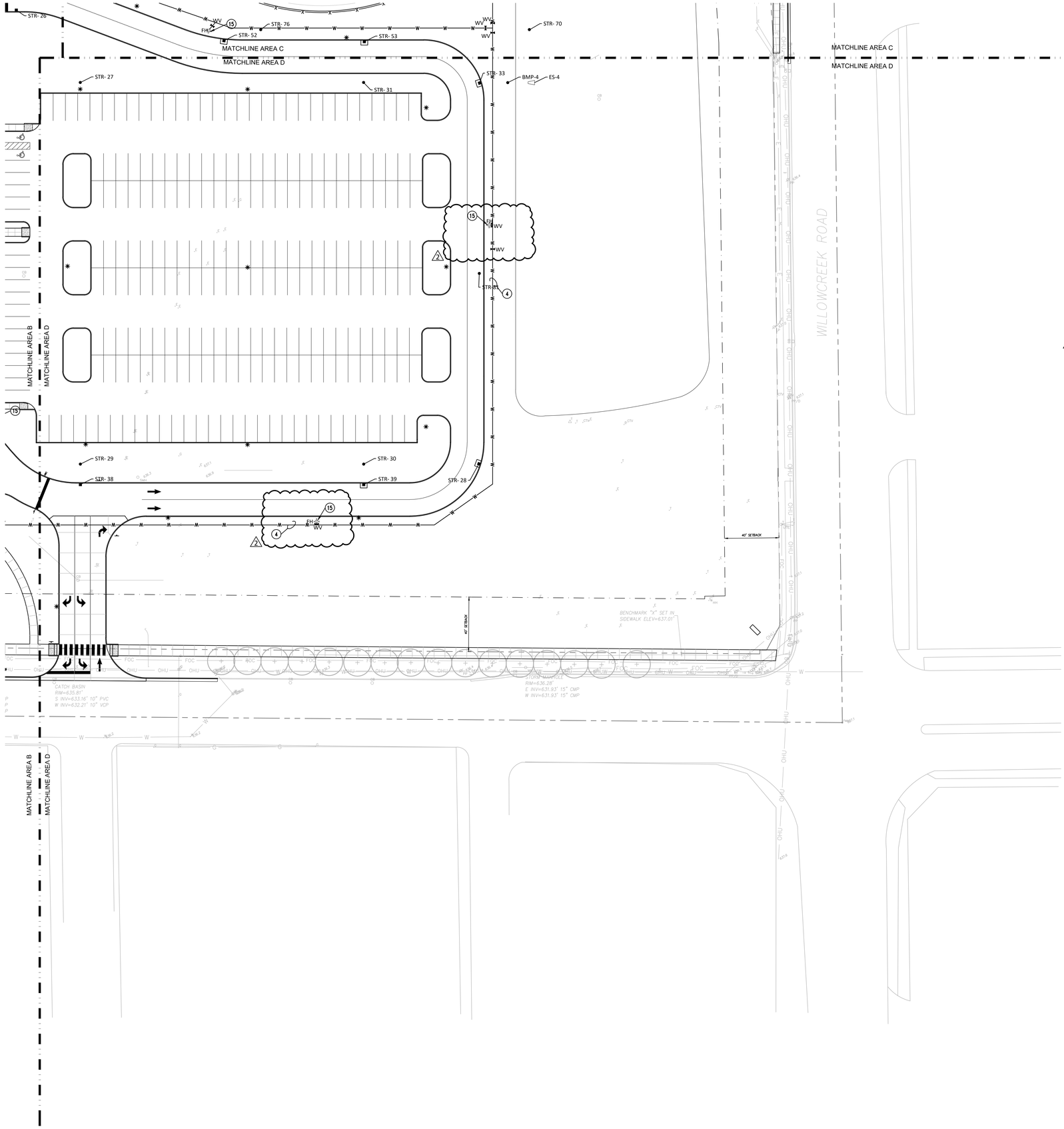

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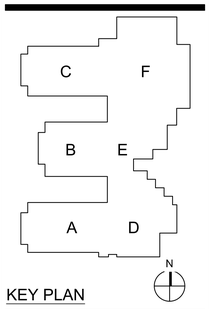

KEY PLAN

CONSTRUCTION DOCUMENTS

ANDREW D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 223047.01 24JPCSE81

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	11-11-2025
2	ADDENDUM 4	11-24-2025

SITE UTILITY PLAN AREA 'D'

C404

0 30 60 FEET
SCALE:1"=30'

JPS Consulting Engineers - K:\Civil Projects\2024\JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C400.dwg November 21, 2025 - 10:20 AM TJones

GENERAL NOTES

A. REFER TO IMPROVEMENT DETAILS FOR NOTE REFERENCES.

○ PLAN NOTES

1. ASPHALT PAVEMENT.
2. CONCRETE CURB AND WALK.
3. ACCESSIBLE RAMP.
4. 4" WIDE PAINTED PARKING STRIPE. WHITE FOR STANDARD, BLUE FOR ACCESSIBLE SPACES, YELLOW FOR BUS PARKING.
5. CONCRETE WALK.
6. STRAIGHT CONCRETE CURB.
7. ACCESSIBLE PARKING SPACE.
8. CONCRETE STOOP. REFER TO STRUCTURAL.
9. 6" CONCRETE PAVEMENT.
10. PAINTED CROSSWALK STRIPING.
11. WASTE CONTAINER PAD AND ENCLOSURE. REFER TO ARCHITECTURAL DRAWING A11-H
12. 24" HIGH MASONRY SEAT WALL.
13. DECORATIVE CONCRETE BOLLARD. 18" DIA. ROUND TOP BOLLARD. MODEL # BLB45 (AS SOLD BY DOTY AND SONS. ARCHITECT TO SELECT COLOR AND FINISH FROM MANUFACTURER RANGE).
14. FLAG POLE PLAZA- (1) @ 35' TALL AND (2) AT 30' TALL, STADIUM (1) @ 35' TALL.
15. CONCRETE INLET COLLAR.
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21. VEHICLE SWING GATE.
22. 2' WIDE PAINTED STOP BAR.
23. STEEL GUARDRAIL.
24. ALTERNATE: SYNTHETIC TURF FOOTBALL FIELD WITH SPECIALTY STRIPING AND LOGOS. SEE SHEET C514 FOR MARKING PLAN. BASE BID TO BE NATURAL TURF GRASS.
25. 8 LANE SYNTHETIC SURFACE TRACK W/ INNER CURB AND DRAINAGE.
26. GUARDRAIL (PEDESTRIAN TYPE)
27. 4' TALL ORNAMENTAL FENCE. AMERISTAR OR EQUAL.
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34. SLIDING CHAINLINK GATE. SEE PLAN FOR SIZE.
35. TRAFFIC CONTROL SIGN. SEE PLAN FOR DESIGNATION. A. DO NOT ENTER, B. STOP, C. PEDESTRIAN CROSSING.
36. LIGHT POLE BASE-SEE ELECTRICAL.
37. MASONRY PIER. REFER TO ARCHITECTURAL DRAWING A 11-H DETAIL 13.
38. 4' TALL BLACK PVC COATED CHAIN LINK FENCE.
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45. DISCUS CAGE AND PAD. SEE DETAIL.
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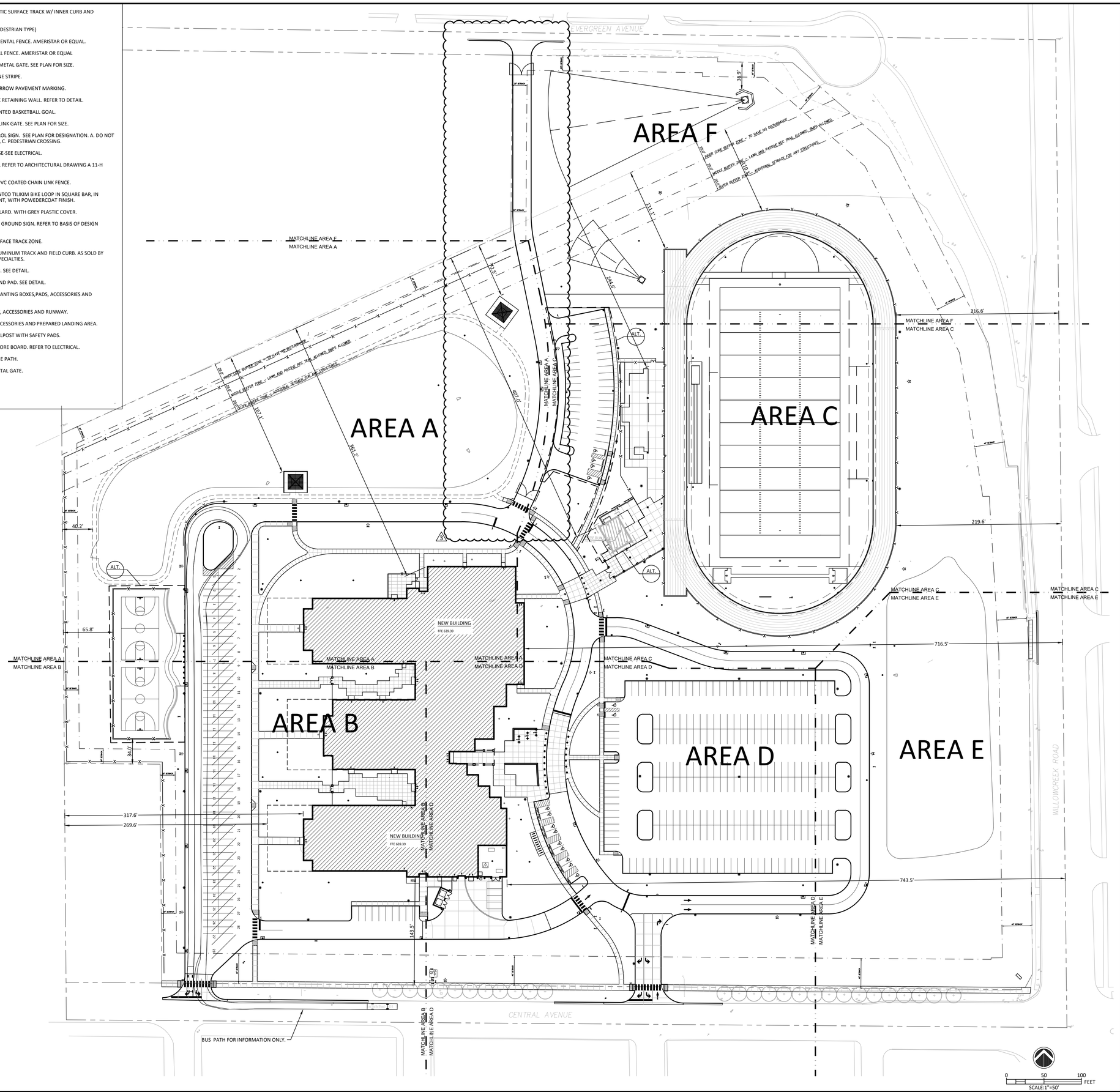
47. LONG JUMP PIT, ACCESSORIES AND RUNWAY.
48. HIGH JUMP, ACCESSORIES AND PREPARED LANDING AREA.
49. FOOTBALL GOALPOST WITH SAFETY PADS.
50. ELECTRONIC SCORE BOARD. REFER TO ELECTRICAL.
51. CRUSHED STONE PATH.
52. DECORATIVE METAL GATE.

PROJECT ALTERNATES

- SYNTHETIC TURF FOOTBALL FIELD.
- STADIUM BUILDING.
- STADIUM FOOTBALL LIGHTING.
- BASKETBALL COURTS.
- NORTH PARKING LOT.

SITE DESIGN SUMMARY	
SITE AREA	29.05 ACERS
LOT COVERAGE	
LIMITS OF CONSTRUCTION	1184382 SF/ 27.2 ACRES
BUILDING	86861 SF/ 1.99 ACRES
LAWN AND LANDSCAPING	736164 SF/ 16.9 ACRES
PARKING AND DRIVES	448668 SF/ 10.3 ACRES
TOTAL IMPERVIOUS	535529 SF/ 12.29 ACRES
BUILDING/PARKING LOT COVERAGE	42%
LANDSCAPING LOT COVERAGE	58%
PARKING	
BICYCLE PARKING SPACES	20
STANDARD PARKING STALL	**291**
HANDICAP ACCESSIBLE	**15**
BUS LOT- STANDARD SPACES OUTSIDE OF SCHOOL HOURS	**107**
BUS LOT- BUS SPACES	28
TOTAL PARKING PROVIDED	**413 (INCLUDES 39 IN ALT.)**



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THE NEW WALLACE AYLESWORTH MIDDLE SCHOOL

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PORTAGE TOWNSHIP SCHOOLS

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OVERALL SITE IMPROVEMENT PLAN

C500

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 21, 2025 - 12:52 PM TJones

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MATCHLINE AREA F

MATCHLINE AREA A

25.0' INNER CORE BUFFER ZONE – TO HAVE NO DISTURBANCE

25.0' MIDDLE BUFFER ZONE – LAWN AND PASSIVE REC TRAIL ALLOWED. BMPS ALLOWED.

20.0' OUTER BUFFER ZONE – ADDITIONAL SETBACK FOR ANY STRUCTURES.

20' SETBACK

ALT.

NEW BUILDING

FFE 639.39

FUTURE BUILDING

3' TALL PAINTED NUMBERS (TYP.)

BMP-1 BMP-2 BMP-3

STR- 1 STR- 2 STR- 7 STR- 8 STR- 9 STR- 22 STR- 23 STR- 24 STR- 40 STR- 41 STR- 55 STR- 58 STR- 71 STR- 73

ES-1 ES-2 ES-3

MATCHLINE AREA A

0 20 40 FEET

SCALE:1"=20'

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KEY PLAN

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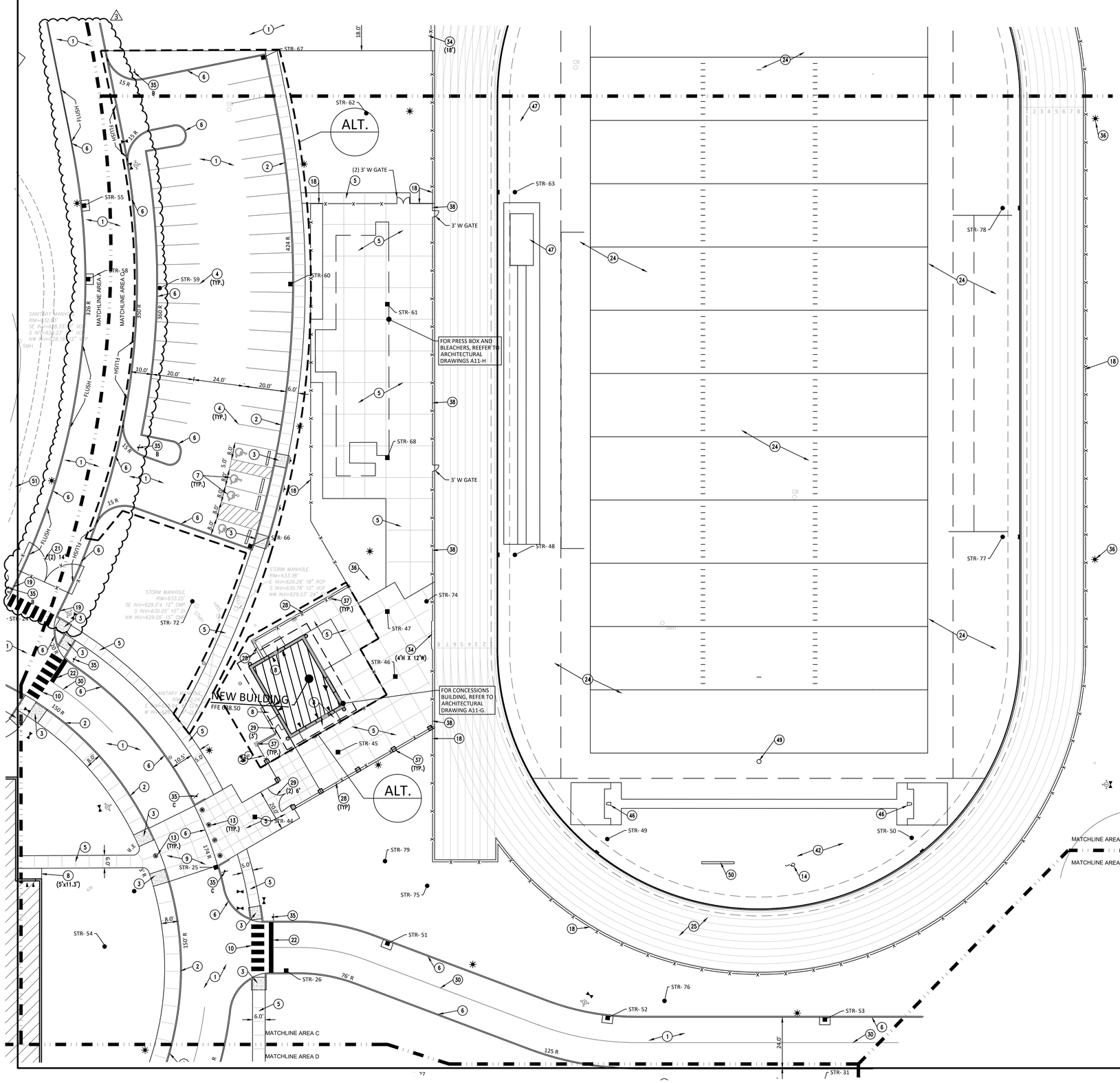
SITE IMPROVEMENT PLAN AREA-A

C501

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C501.dwg November 21, 2025 - 12:52 PM TJones



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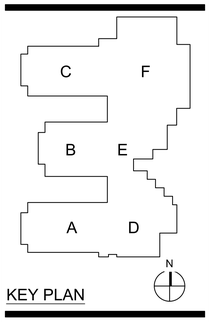

KEY PLAN

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JEREMY D. SWANSON REGISTERED No. PE10200271 STATE OF INDIANA PROFESSIONAL ENGINEER

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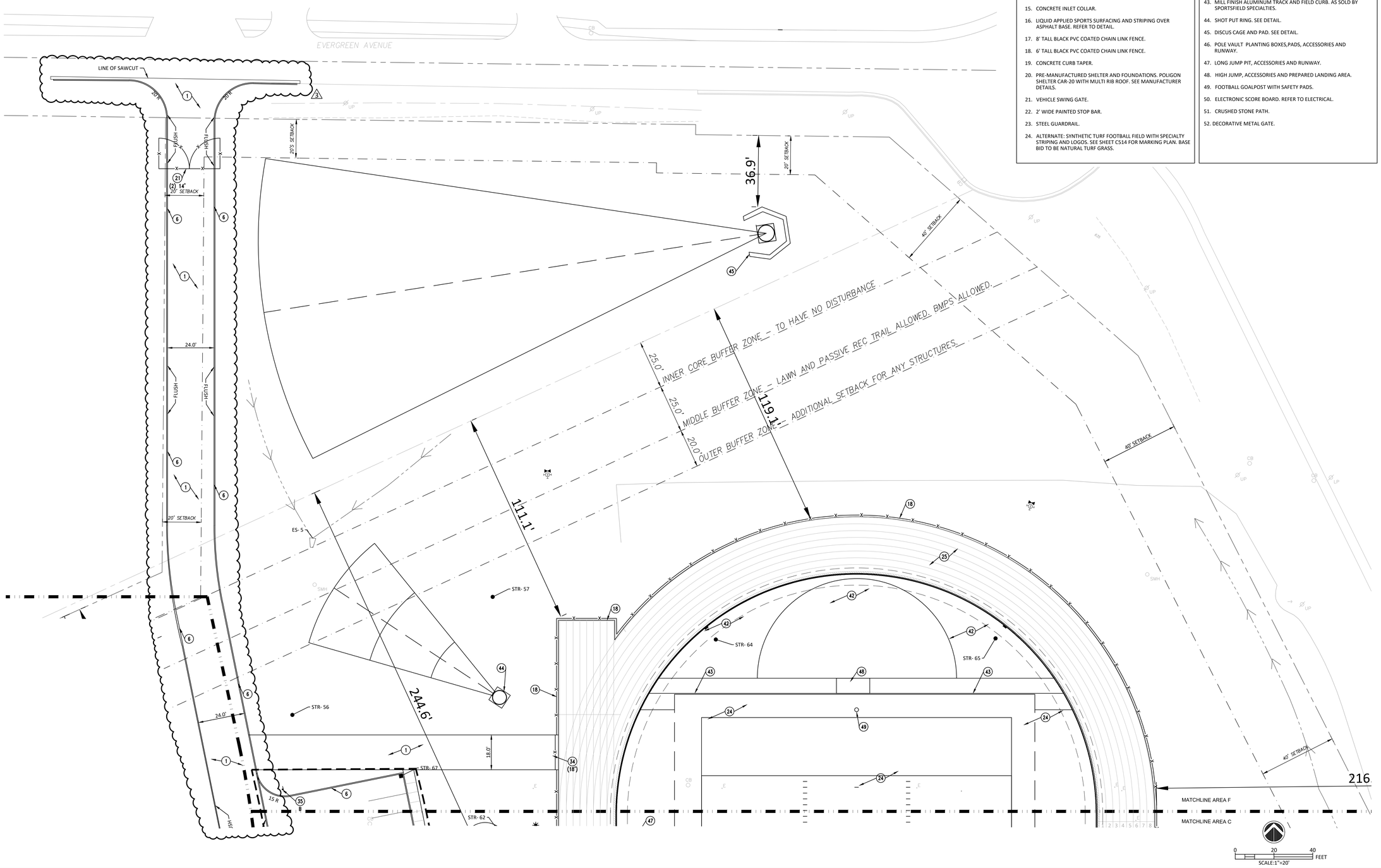
SITE IMPROVEMENT PLAN AREA-C

C503

JPS Consulting Engineers - K:\Civil Projects\2024\24JPSCE81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 21, 2025 - 12:02 PM TJones



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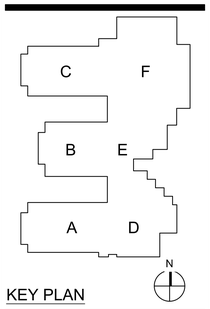

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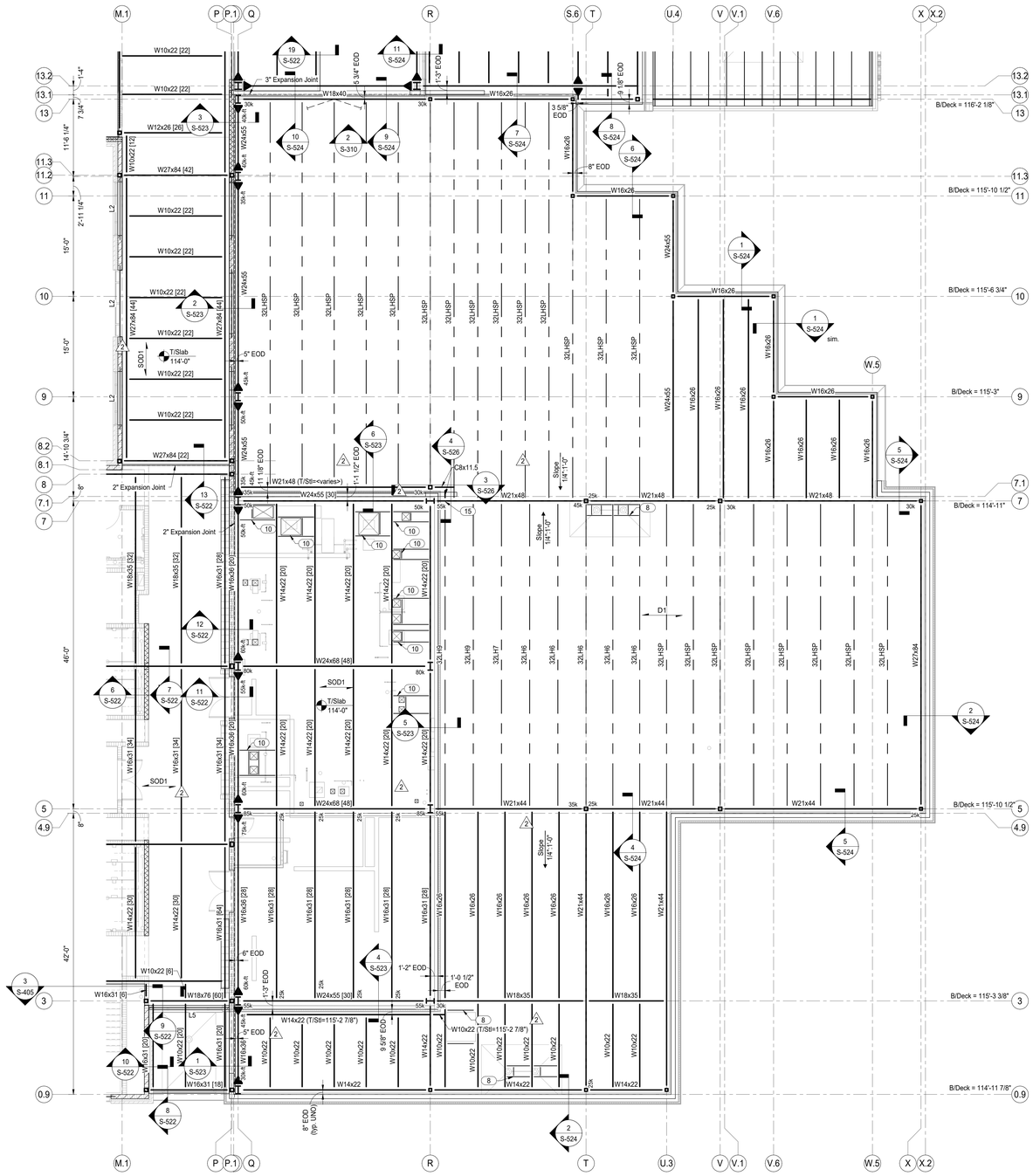
SITE IMPROVEMENT PLAN AREA-F

C506

JPS Consulting Engineers - K:\Civil Projects\2024\JPSC81 Portage Township Schools - Willowcreek Middle School\Drawings\C500.dwg November 21, 2025 - 12:52 PM TJones



1 Second Floor Framing Plan - Unit D
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 111'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Provide framing around floor penetrations per Detail 2/S-521.
11. Beam bears on CMU as shown. Ref. details17/S-510 & 10/S-521 for additional information regarding the bearing connection requirements.
12. Typical Elevations (UNO):
    a. T/Steel @ SOD = 113'-7 1/2"
    b. T/Steel @ HC12+2 = 112'-10"
13. Conc. pad per Detail 18/S-501.
14. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.
15. Channel to beam top flange conn. per detail 4/S-526

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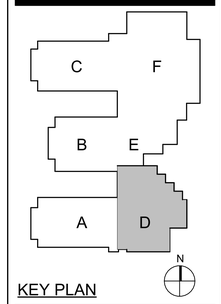

KEY PLAN

Construction Documents

TROY A. RADER REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
4	Addendum #4	11-24-2025

SECOND FLOOR FRAMING PLAN - UNIT D

S-12D

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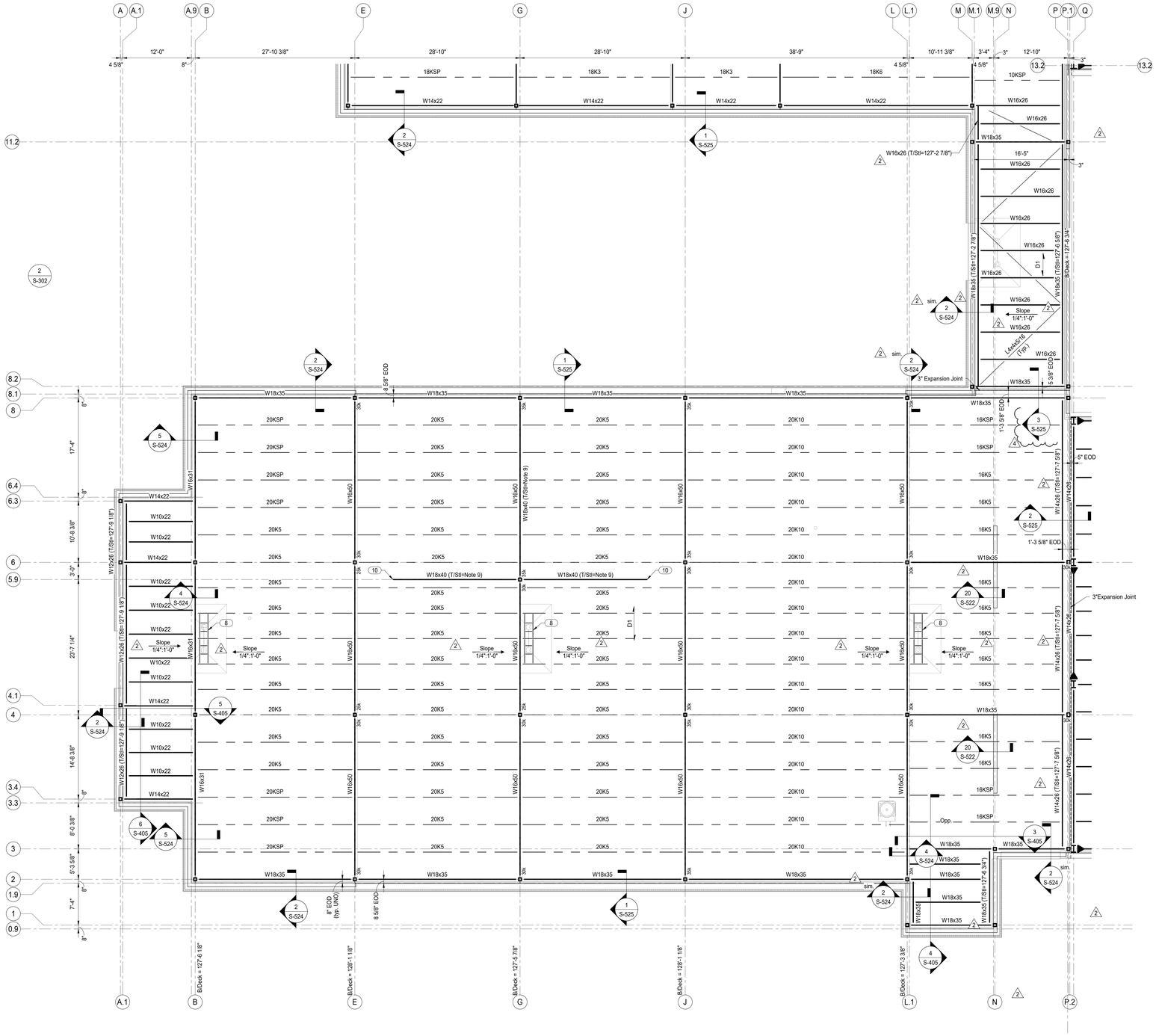

1 Roof Framing Plan - Unit A
Scale: 1/8" = 1'-0"

Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 125'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Beam bears on CMU. Ref. detail 10/S-521 and 17/S-510 for additional information regarding the bearing connection requirements.
11. Roof curb support (ref. detail 19/S-521).
12. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.

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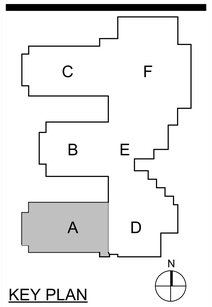

KEY PLAN

Construction Documents

TROY A. HOWEY REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
4	Addendum #4	11-24-2025

ROOF FRAMING PLAN - UNIT A

S-13A

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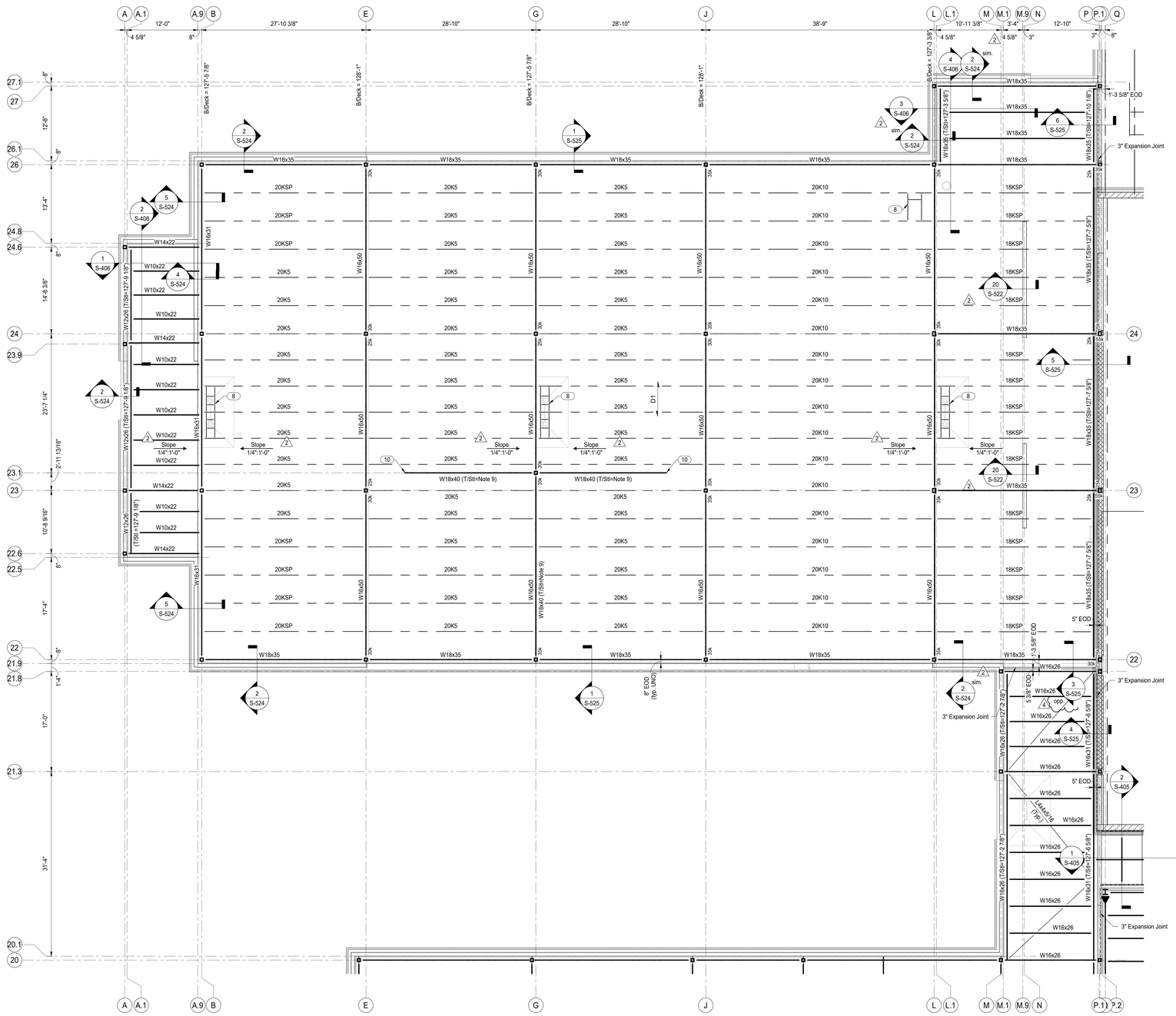
Plan Notes:

1. Reference elevation = 100'-0" (639.39' USGS).
2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
3. All walls shall be laid out from the arch. drawings.
4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ 'SJI' requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
8. Provide framing around roof penetrations per Detail 1/S-521.
9. T/Steel = 125'-2". Contractor shall verify the required opening dimensions with the operable partition manufacturer.
10. Beam bears on CMU. Ref. detail 10/S-521 and 17/S-510 for additional information regarding the bearing connection requirements.
11. Roof curb support (ref. detail 19/S-521).
12. Roof slope indicated represents nominal roof slope and is provided for reference only. Actual roof slope to be determined based on indicated steel elevations.



1 Roof Framing Plan - Unit C
Scale: 1/8" = 1'-0"

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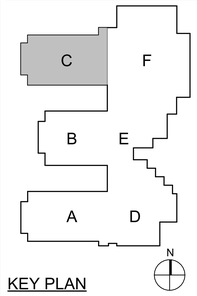

KEY PLAN

Construction Documents

TROY A. MAYLEIN REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
4	Addendum #4	11-24-2025

ROOF FRAMING PLAN - UNIT C

S-13C

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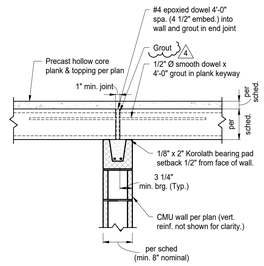
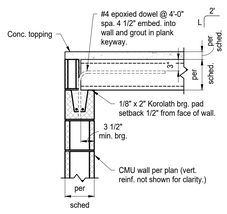
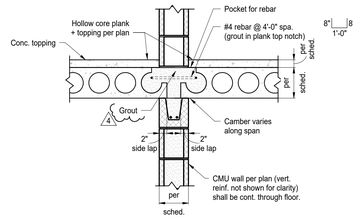


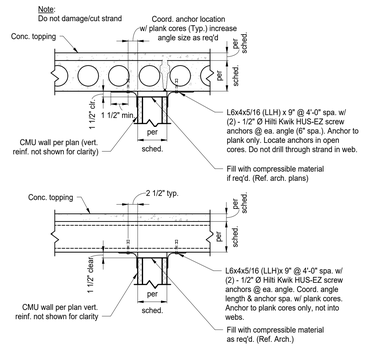
1 Hollow Core Plank Brg. on CMU Wall from Both Sides
Scale: N.T.S.



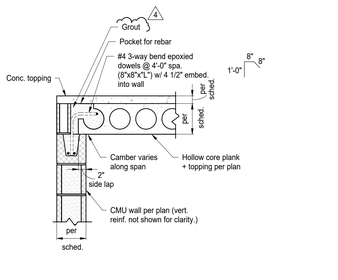
2 Hollow Core Plank Brg. on CMU Wall from One Side
Scale: N.T.S.



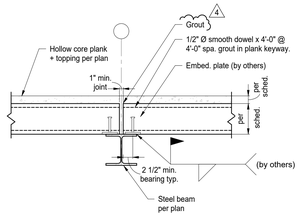
3 Hollow Core Plank Sidelap on CMU Wall from Both Sides
Scale: N.T.S.



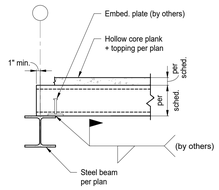
4 CMU Partition Wall @ Hollow Core Plank
Scale: N.T.S.



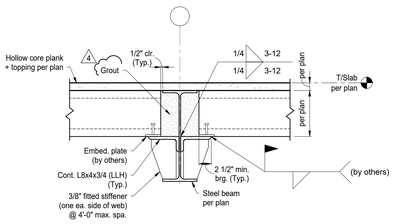
5 Plank Sidelap @ CMU Wall - Rebar Down
Scale: N.T.S.



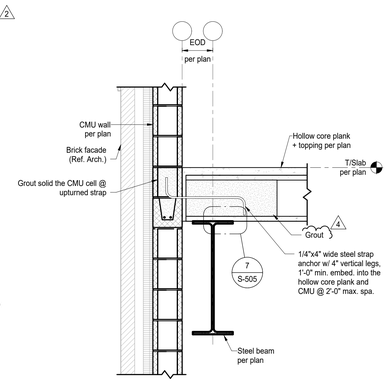
6 Hollow Core Plank Brg. on Steel Beam from Both Sides
Scale: N.T.S.



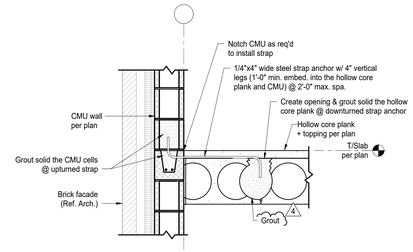
7 Hollow Core Plank Brg. on Steel Beam from One Side
Scale: N.T.S.



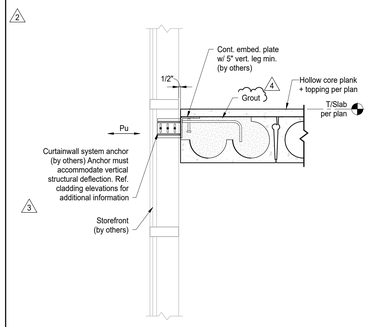
8 Hollow Core Plank Brg. on Steel Beam from Both Sides w/ Shelf Angles
Scale: N.T.S.



9 Section
Scale: 3/4" = 1'-0"

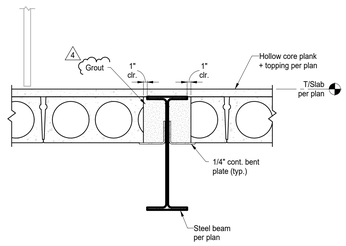


10 Section
Scale: 3/4" = 1'-0"

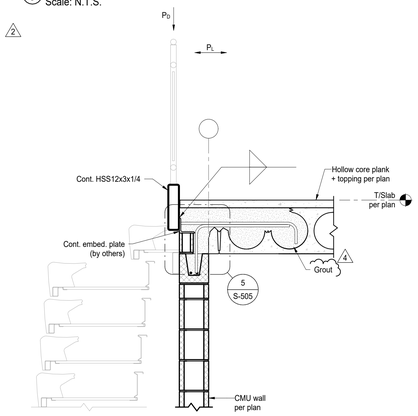


Notes:
1. Embed. plate shall be designed for a force (Pu) of ± 1.5 kips (LRFD) considering all applicable limit states.
2. ± designation indicates a force that can occur in either direction.

11 Section
Scale: 3/4" = 1'-0"

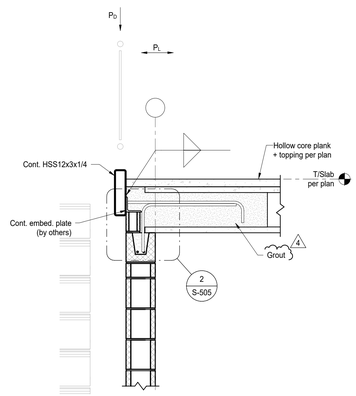


12 Section
Scale: 3/4" = 1'-0"



Notes:
1. Embed. plate shall be designed for the following forces considering all applicable limit states:
   a. PD = Self weight of the guardrail system.
   b. PL = 200 lbs applied in any direction at any point along the top rail.
   c. PL = 50 plf applied in any direction along the top rail. This load need not be applied simultaneously w/ load 1b.
2. The above provided loads are service level dead and live loads, and shall be factored as necessary for strength level design.

13 Section
Scale: 3/4" = 1'-0"



Notes:
1. Embed. plate shall be designed for the following forces considering all applicable limit states:
   a. PD = Self weight of the guardrail system.
   b. PL = 200 lbs applied in any direction at any point along the top rail.
   c. PL = 50 plf applied in any direction along the top rail. This load need not be applied simultaneously w/ load 1b.
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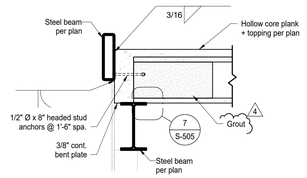
14 Section
Scale: 3/4" = 1'-0"



15 Section
Scale: 3/4" = 1'-0"

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Construction Documents

TROY A. MALDEN REGISTERED No. PE10100188 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LWT

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
3	Addendum #3	11-18-2025
4	Addendum #4	11-24-2025

TYP. HOLLOW CORE PLANK DETAILS

S-505

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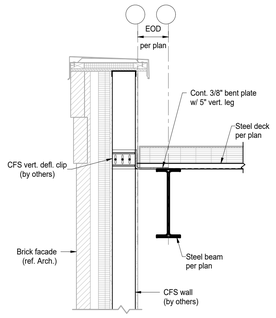

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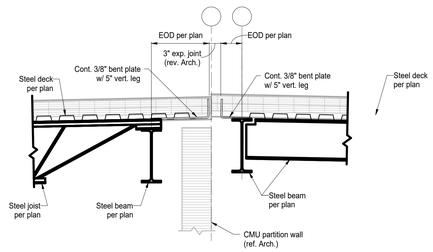

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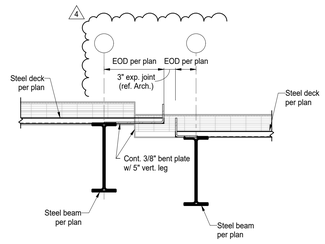

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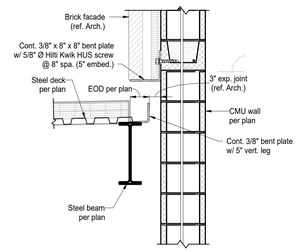

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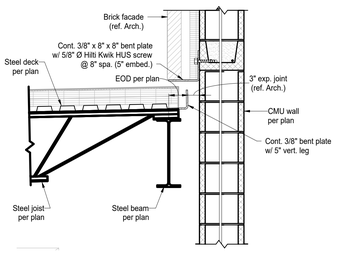

5 Section
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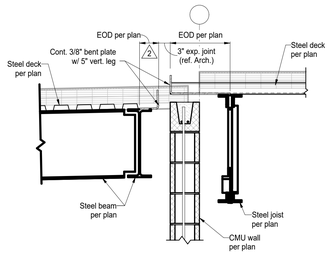

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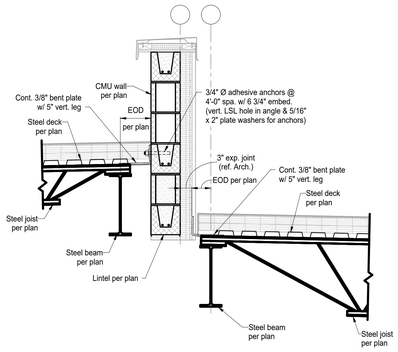

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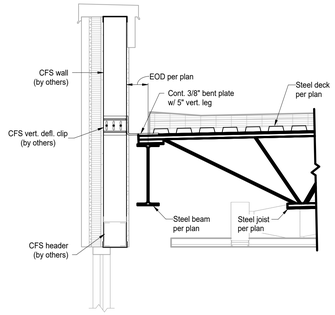

8 Section
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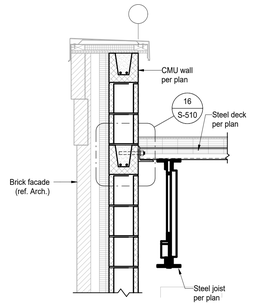

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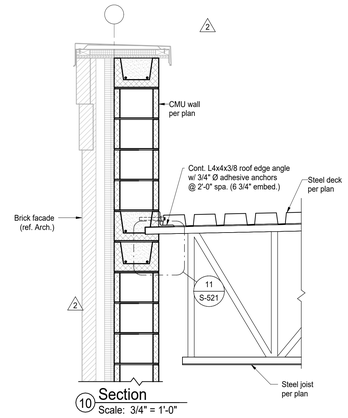

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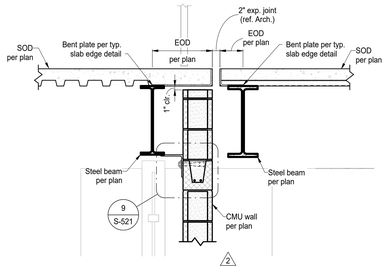

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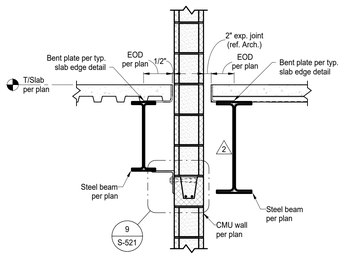

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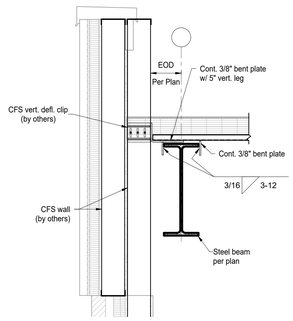
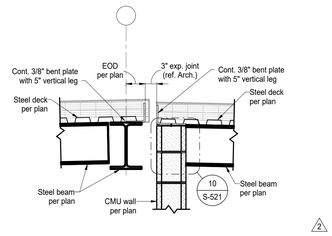


13 Section
Scale: 3/4" = 1'-0"



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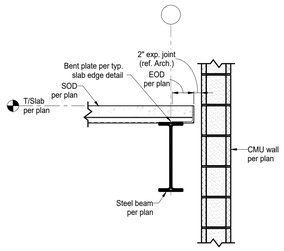
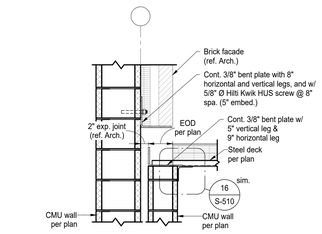


Notes:
1. At 'sim.', deck is rotated 90°.

15 Section
Scale: 3/4" = 1'-0"



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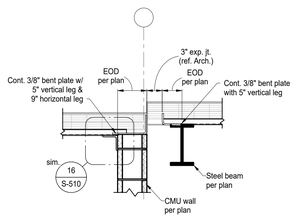

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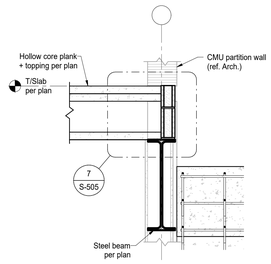

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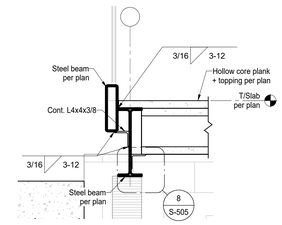

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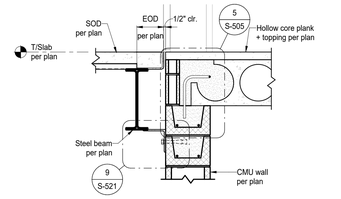

20 Section
Scale: 3/4" = 1'-0"

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana
46368

PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

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1415 Lincolnway West, Ste D, Osceola, IN 46561
contactus@MagnusEng.com
www.MagnusEng.com

Construction Documents

TROY A. MAJDECKI
REGISTERED
No. PE10100188
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: LWT

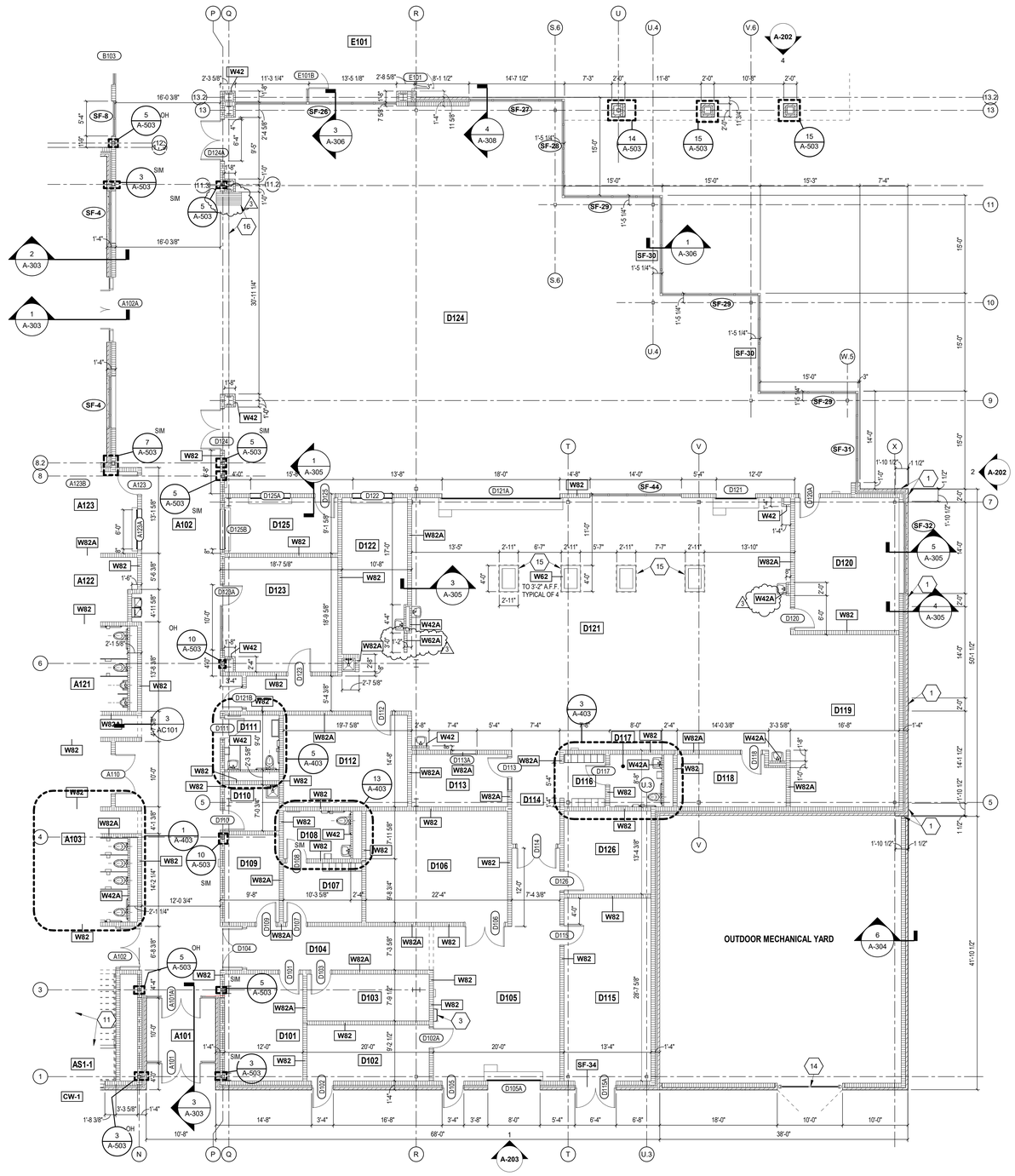
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #2	11-11-2025
4	Addendum #4	11-24-2025

STEEL FRAMING DETAILS

S-525



FIRST FLOOR ARCHITECTURAL PLAN - UNIT D

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

ROOM LEGEND - UNIT D FIRST...

ROOM NO.	ROOM NAME	AREA (SF)
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2,365 SF
D122	DISHWASHING	236 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4,442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
D. ALL INTERIOR MASONRY WALLS S THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE. EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
J. REFER TO FINISH PLANS AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
L. REFER TO MASTER/CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN KEYNOTES

X

W### INDICATES WALL TYPE. REFER TO DRAWING A-100 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

1. 1 1/2" BRICK BUMP-OUT
2. 1 LAYER OF 5/8" GWB ADHERED TO CMU TO 4" ABOVE CEILING
3. LADDER AND ROOF HATCH (D105) APPROX. 15'-8" TALL (VERIFY). SEE 4-AR102.
4. LOCK BOX
5. AUTO DOOR OPERATOR ACTUATOR
6. LADDER AND ROOF HATCH (D201) APPROX. 14'-4" TALL (VERIFY). SEE 4-AR102.
7. LADDER AND ROOF HATCH (F202) APPROX. 14'-8" TALL (VERIFY). SEE 4-AR102.
8. OPERABLE (FOLDING PANEL) PARTITION - SEE 4-AC102
9. OPERABLE (FOLDING PANEL) PARTITION - SEE 5-AC102
10. GROUND FACE CMU (GFCMU) FINISH ON CORRIDOR / HUDDLE SIDE. AT THE JAMBS OF OPERABLE WALL AND HUDDLE SIDE, THE GFCMU CAN BE 2 WYTHES OF MASONRY TO HAVE FINISHES AT BOTH SIDES. THE GFCMU IS PAINTED 1 CMU AT INTERIOR SIDES OF CLASSROOMS. SEE 1-A11A.
11. 8" CMU WALLS UNDER STAIR. SEE ENLARGED STAIR PLAN.
12. MECHANICAL LOUVER - SEE BUILDING ELEVATIONS
13. LAVATORY SHELF - SEE SHEET A-401
14. DECORATIVE METAL FENCING GATE
15. STAINLESS STEEL COUNTER ON TOP OF CMU - 3'-2" H X 4'-0" D X 2'-11" W
16. OPERABLE GLASS PANEL PARTITION (CENTER STACK, PAIRED PANEL) - SEE 6-AC102
17. PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS, DISSIMILAR MATERIALS, AND AT INTERSECTION OF WALL TO ROOF DECK, BOTH SIDES OF WALL, FOR FULL PERIMETER OF WALLS.
18. SEE ROOF PLAN FOR STAGE SMOKE VENTS
19. GUARDRAIL GATE. VERIFY EXACT LOCATION AND WIDTH WITH BLEACHER INSTALLER. GATE IS TO BE CENTERED ON BLEACHER AISLE.
20. FLOOR TO FLOOR EXPANSION JOINT COVER
21. FLOOR TO WALL EXPANSION JOINT COVER
22. NOTCH SOLID SURFACE SILL TO ACCOMMODATE COLUMN ENCLOSURE WALL
23. 5/8" GWB ON 3 5/8" METAL STUDS FROM STOREFRONT SILL TO HEAD
24. MASONRY FENCE POST - SEE 13-A-11H
25. ORNAMENTAL METAL GATE - SEE DOOR HARDWARE SET #43 IN SPEC SECTION 087100 FOR LOCKSET.
26. 8'-0" TALL ORNAMENTAL FENCING
27. TOP OF WALL BELOW CLOSURE - SEE SETAIL 16-A503.
28. 8" CMU 9'-4" WITH 6" CMU ABOVE TO UNDERSIDE OF SECOND FLOOR. NORTH FACE OF 4" CMU TO ALIGN WITH EDGE OF SECOND FLOOR SLAB ABOVE AND FROM COLUMN AT LINE K.2 TO ADJACENT WALL TO THE EAST. SEE GATHERING STAIR CLOSURE DETAIL ON SHEET A503.

NOTE

SOME COLUMN LINES AND REFERENCES HAVE BEEN OMITTED FROM THE FLOOR PLANS FOR CLARITY. SEE STRUCTURAL DRAWINGS FOR COMPLETE COLUMN LINE GRIDS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

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ARCHITECT

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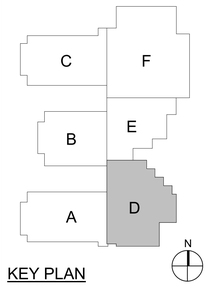

KEY PLAN

Construction Documents

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: rlg

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum #3	11-18-2025

FIRST FLOOR ARCHITECTURE PLAN - UNIT D

A-11D

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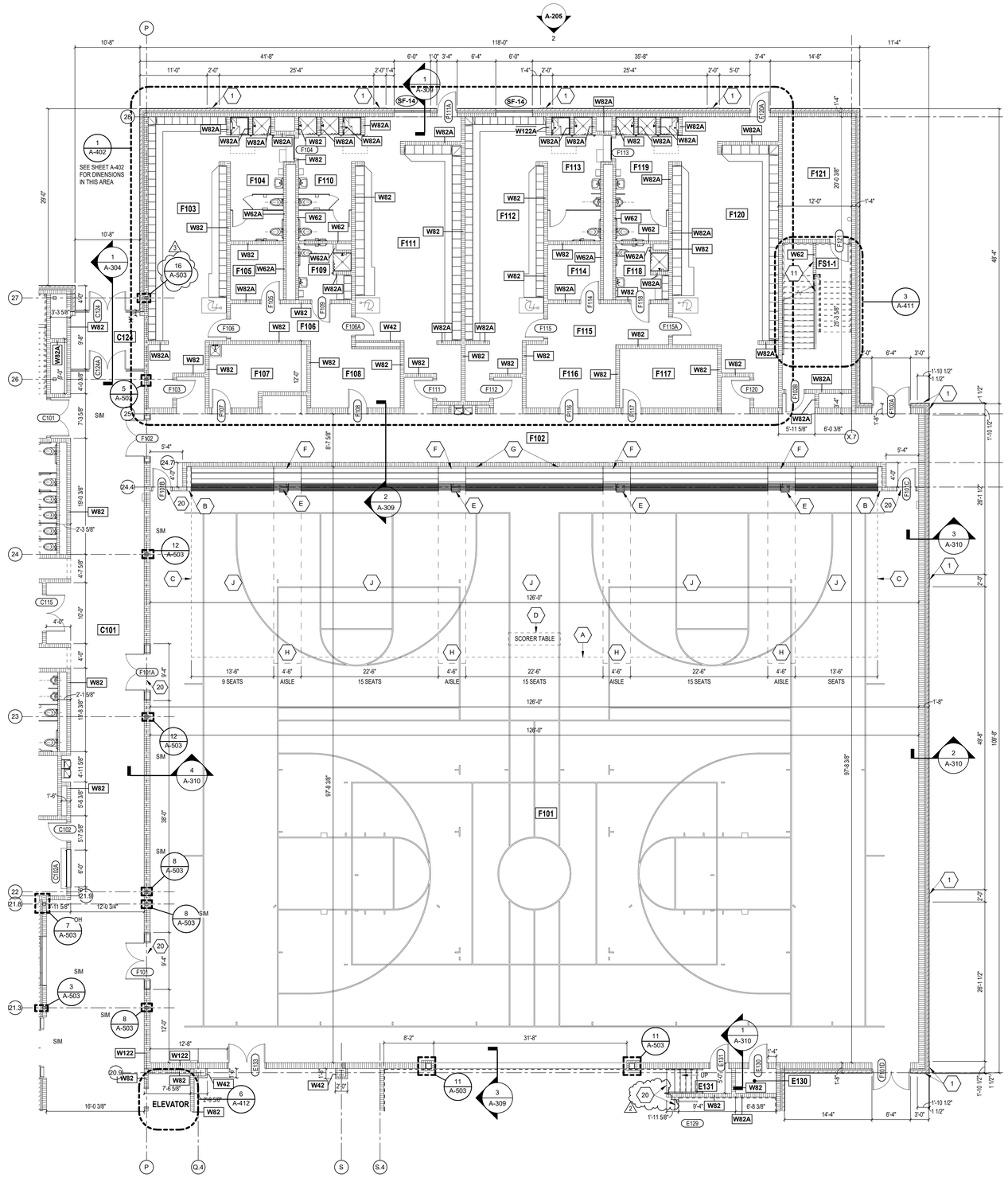
A-205
2
P
10'-8"
41'-8"
118'-0"
11'-4"
11'-0"
2'-0"
25'-4"
2'-0" 1'-4"
6'-0"
1'-0"
3'-4"
6'-4"
1'-4"
35'-8"
3'-4"
14'-8"
5'-0"
1
A-309
SF-14
W82A
W122A
W82
F104
F110
F113
F119
F121
F103
F112
F120
F111
F105
F109
F114
F118
F106
F115
F115A
F107
F108
F116
F117
F102
F101
FS1-1
1
A-402
SEE SHEET A-402 FOR DIMENSIONS IN THIS AREA
29'-0"
10'-8"
1
A-304
16
A-503
A-503
25'-0"
48'-4"
3
A-411
12'-0"
1'-4"
26'-0 3/8"
25'-3 1/8"
6'-0"
6'-4"
3'-0"
1'-10 1/2"
1 1/2"
5'-11 5/8"
6'-0 3/8"
1'-5"
1'-4"
2
A-309
8'-7 5/8"
5'-4"
24'-7"
4'-0"
24'-4"
26'-1 1/2"
3
A-310
1'-2"
126'-0"
D
SCORER TABLE
A
13'-6"
9 SEATS
4'-6"
AISLE
22'-6"
15 SEATS
4'-6"
AISLE
22'-6"
15 SEATS
4'-6"
AISLE
22'-6"
15 SEATS
4'-6"
AISLE
13'-6"
SEATS
1'-8"
2
A-310
49'-8"
108'-8"
97'-8 3/8"
97'-8 3/8"
F101
1
2'-0"
26'-1 1/2"
1'-10 1/2"
1 1/2"
SIM
C101
C115
C124
C123
C125
C126
C127
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C131
C132
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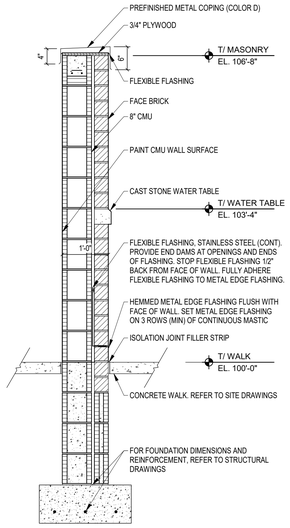
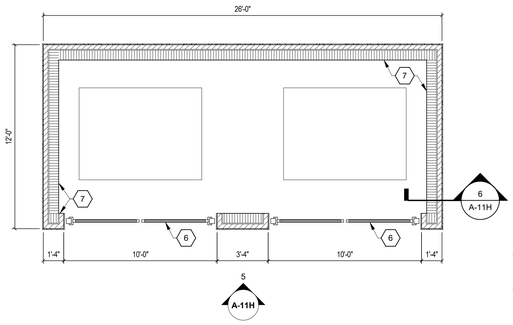
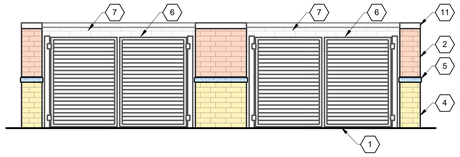


6 SCREENING WALL SECTION
SCALE: 3/4" = 1'-0"



4 SCREENING WALL PLAN
SCALE: 1/4" = 1'-0"



5 SCREENING WALL ELEVATION
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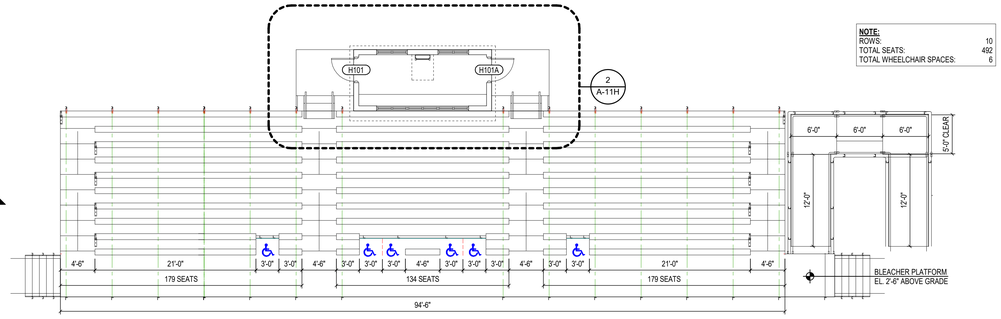
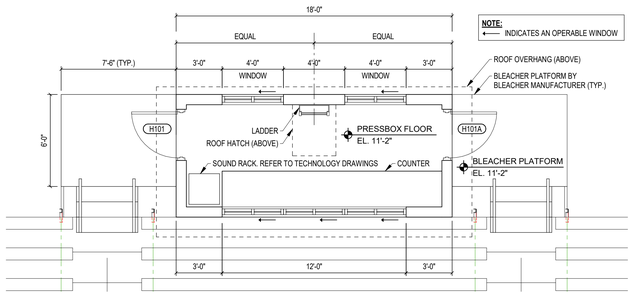
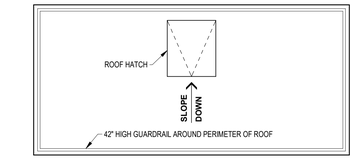


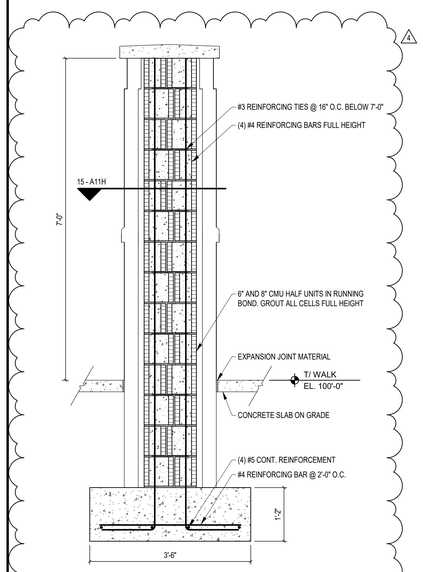
1 FOOTBALL BLEACHER PLAN
SCALE: 1/8" = 1'-0"



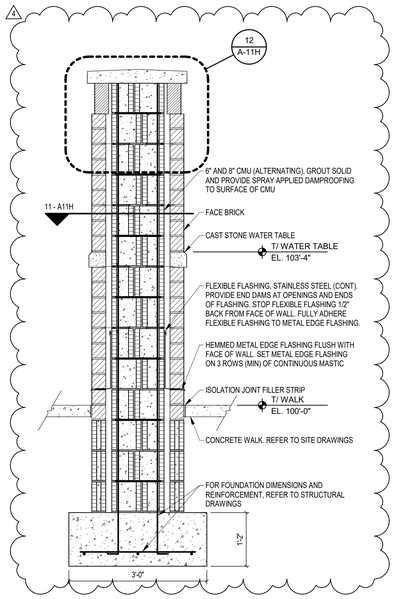
2 PRESS BOX FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 PRESS BOX ROOF PLAN
SCALE: 1/4" = 1'-0"

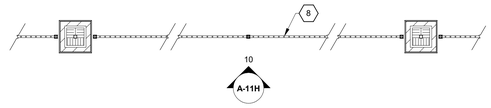


14 SITE FENCE SECTION (STRUCTURAL)
SCALE: 3/4" = 1'-0"

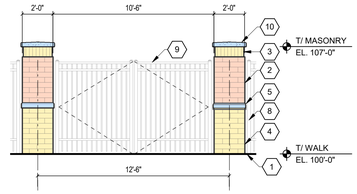


13 SITE FENCE SECTION
SCALE: 3/4" = 1'-0"

7 SITE GATE PLAN
SCALE: 1/4" = 1'-0"



8 SITE FENCE PLAN VIEW
SCALE: 1/4" = 1'-0"



9 SITE GATE ELEVATION
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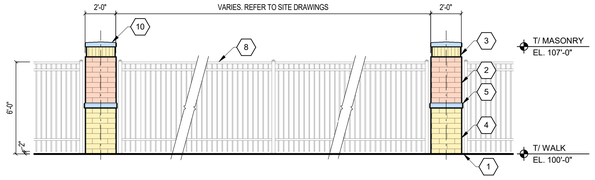
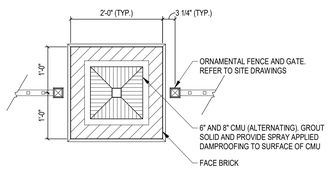
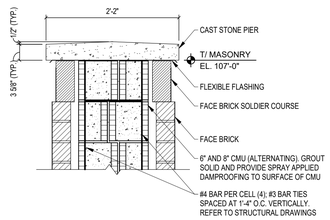


10 SITE FENCE ELEVATION
SCALE: 1/4" = 1'-0"

15 SITE COLUMN DETAIL
SCALE: 3/4" = 1'-0"



11 SITE COLUMN PLAN VIEW
SCALE: 3/4" = 1'-0"



12 COLUMN CAP SECTION
SCALE: 1" = 1'-0"

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL. AND MINERAL WOOL AT THE NON-RATED WALLS. TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
J. REFER TO FINISH PLANS AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
L. REFER TO MASTER/CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL ELEVATION GENERAL NOTES

A. SEALANT COLOR TO MATCH ADJACENT BRICK COLORS.
B. THE PREFINISHED METAL COPINGS SHALL HAVE A TOTAL OF FOUR COLORS. TWO MATCHING THE METAL COLORS AND TWO MATCHING THE BRICK COLORS. REFER TO ELEVATIONS FOR LOCATIONS.
C. UNLESS NOTED OTHERWISE, BRICK IS TO BE UTILITY SIZE (NOMINAL 4"x4"x12").

ARCHITECTURAL KEYNOTES (X)

1. GRADE. REFER TO SITE DRAWINGS
2. FACE BRICK (COLOR 1) (TYP.)
3. FACE BRICK SOLDIER COURSE (COLOR 2) (TYP.)
4. FACE BRICK WAINSCOT (COLOR 2) (TYP.)
5. CAST STONE WATER TABLE (TYP.)
6. 6' H DECORATIVE METAL GATE AT SCREEN WALL OPENING
7. PAINT CMU WALL SURFACE
8. 6' H ORNAMENTAL METAL FENCE. REFER TO SITE DRAWINGS
9. 6' H ORNAMENTAL METAL GATE. REFER TO SITE DRAWINGS
10. CAST STONE COLUMN CAP
11. PREFINISHED METAL COPING (COLOR D) (TYP.)

ELEVATION LEGEND

- FACE BRICK (COLOR 1)
- FACE BRICK (COLOR 2)
- CAST STONE WATERTABLE AND SILL (COLOR 3)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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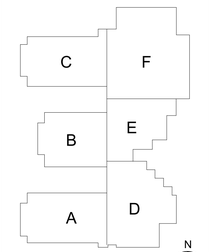

KEY PLAN

Construction Documents

PAUL A. MILLER
REGISTERED
No. AR10800161
STATE OF
INDIANA
ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: MNZ
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

ARCHITECTURAL PLAN - MISC.

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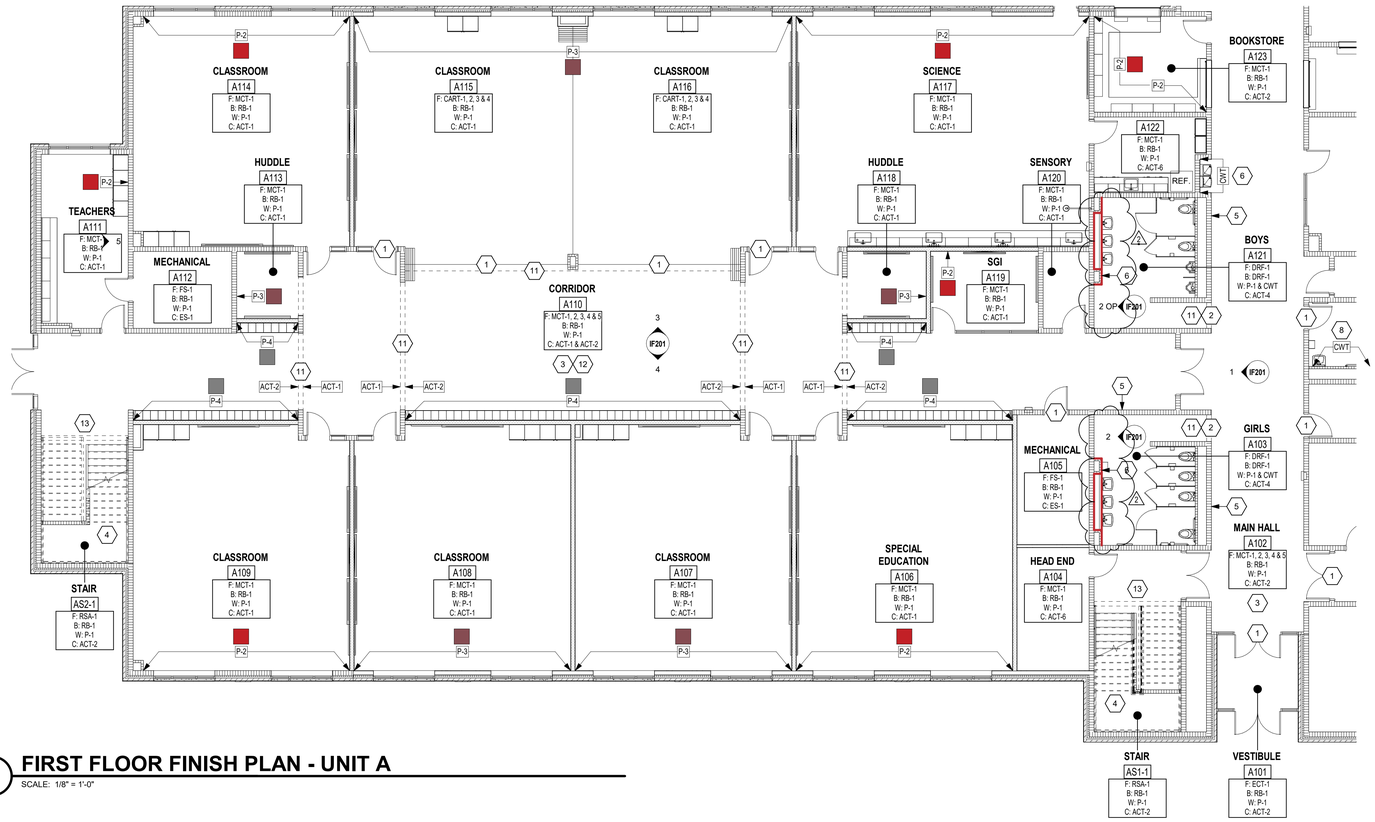

1 FIRST FLOOR FINISH PLAN - UNIT A

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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ARCHITECT

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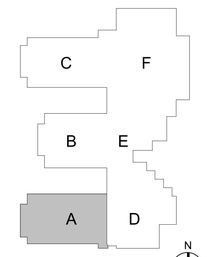

KEY PLAN

PAUL A. MILLER
REGISTERED
No. AR10800161
STATE OF INDIANA
ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR FINISH PLAN - UNIT A

IF11A

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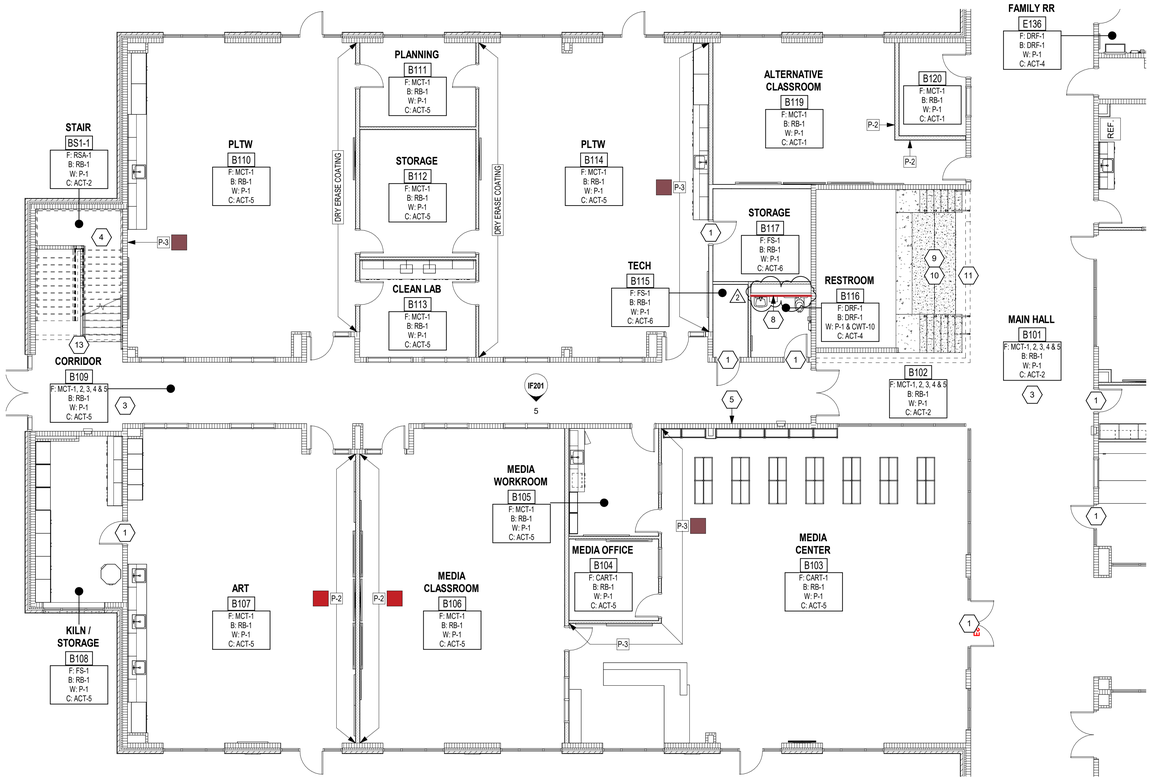

1 FIRST FLOOR FINISH PLAN - UNIT B

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
11. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
12. GWB PAINT BELOW STAIRS TO BE PT-6.
13. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
14. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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ARCHITECT

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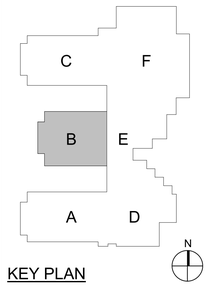

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR FINISH PLAN - UNIT B

IF11B

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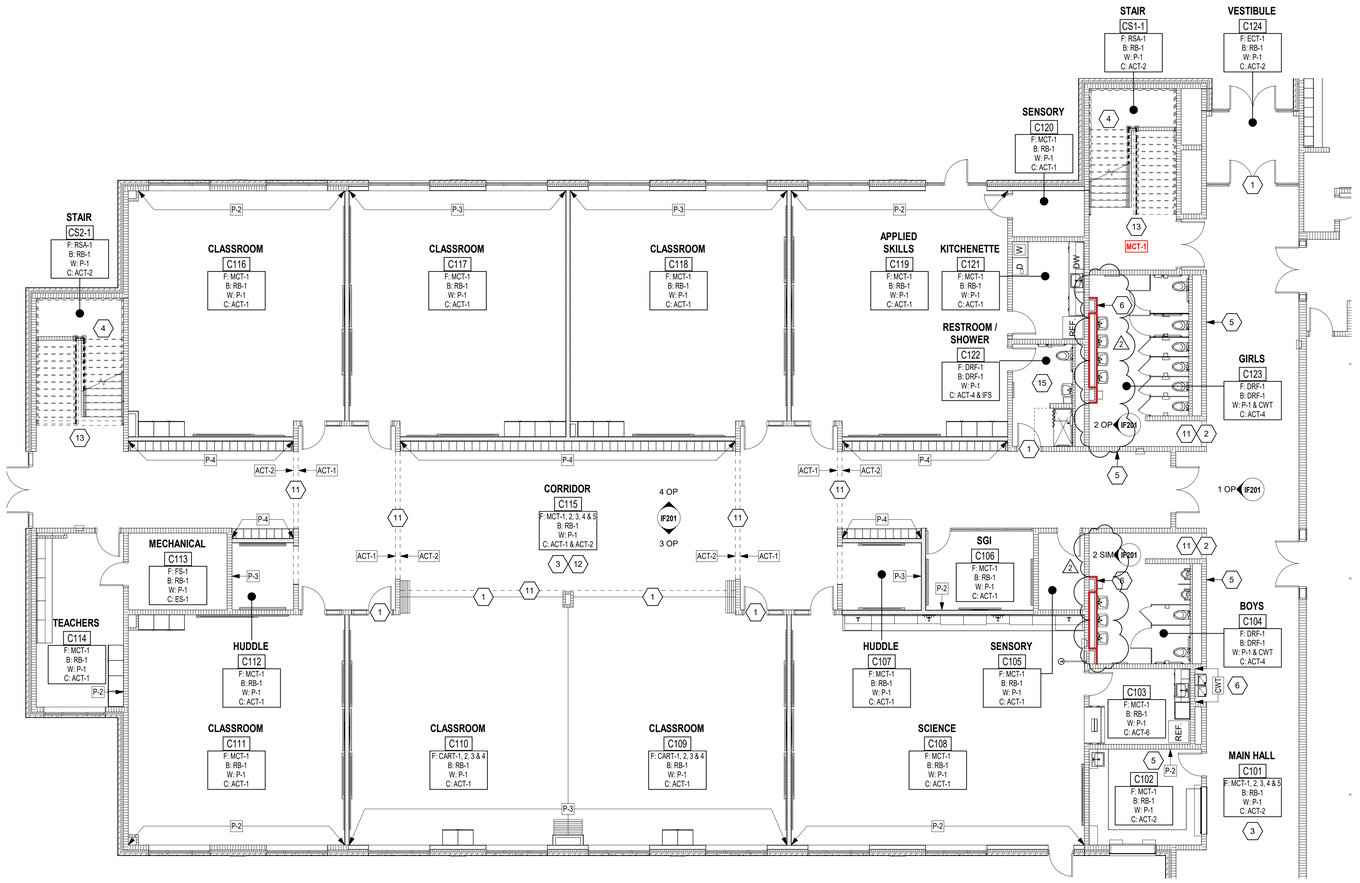

1 FIRST FLOOR FINISH PLAN - UNIT C

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINT GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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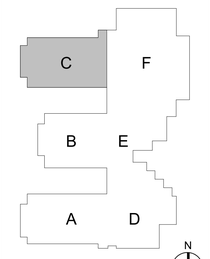

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR FINISH PLAN - UNIT C

IF11C

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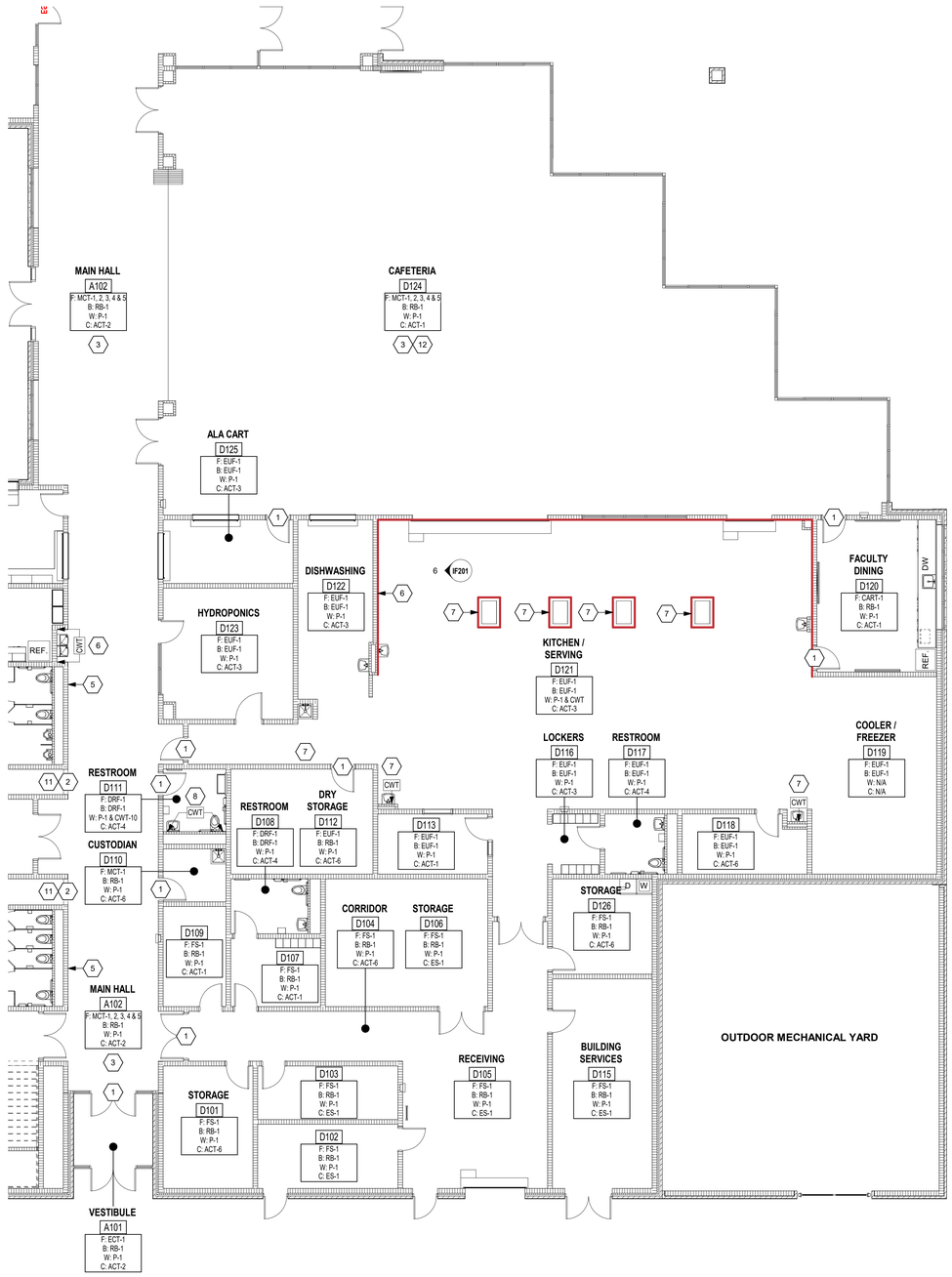

1 FIRST FLOOR FINISH PLAN - UNIT D

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
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FLOOR PATTERN/FINISH KEY NOTES

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4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
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7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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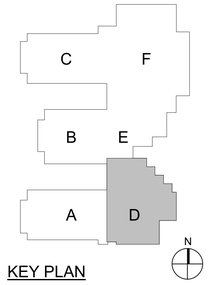

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025

FIRST FLOOR FINISH PLAN - UNIT D

IF11D

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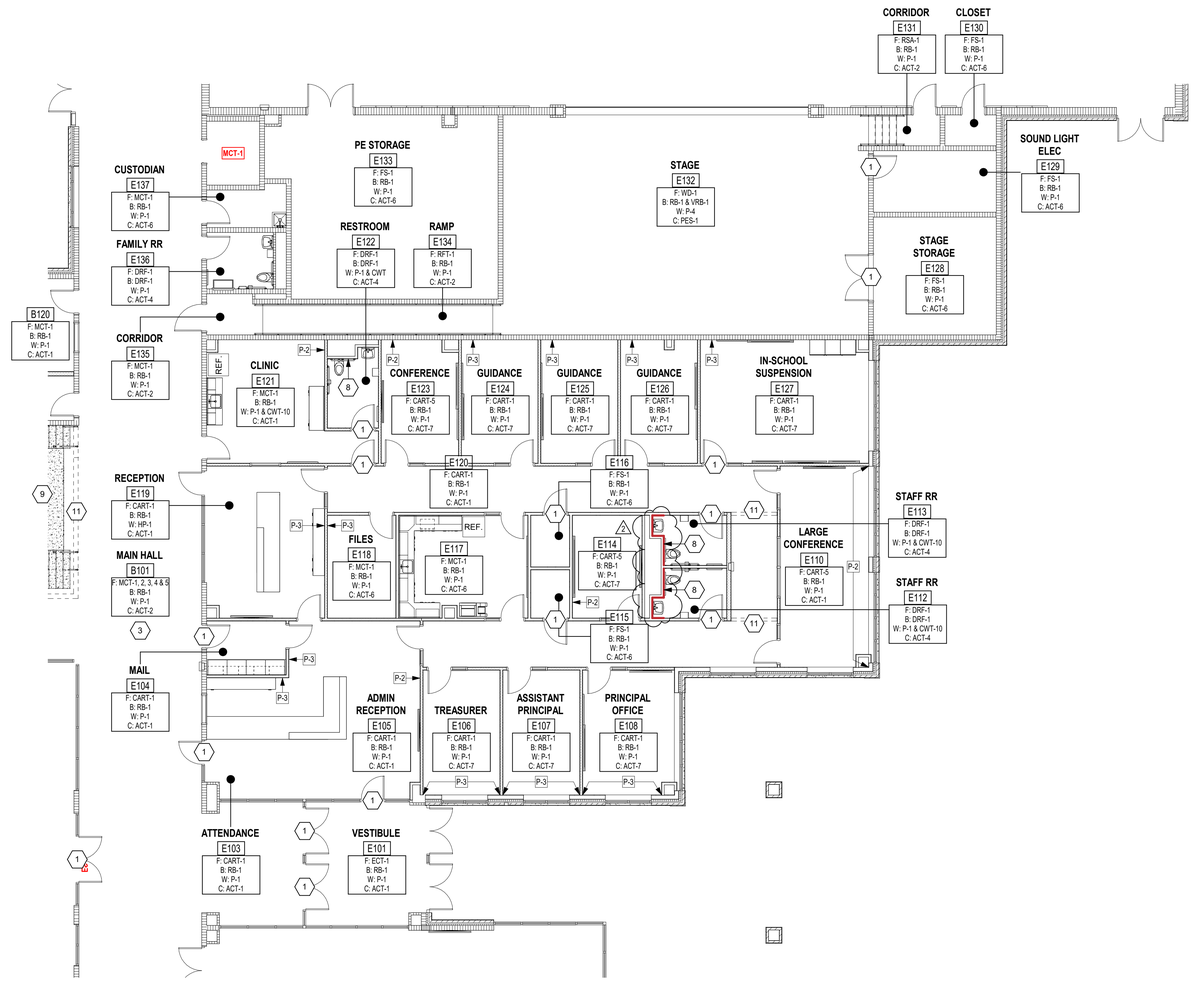

1 FIRST FLOOR FINISH PLAN - UNIT E

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
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G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

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2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
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9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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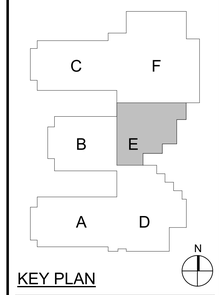

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR FINISH PLAN - UNIT E

IF11E

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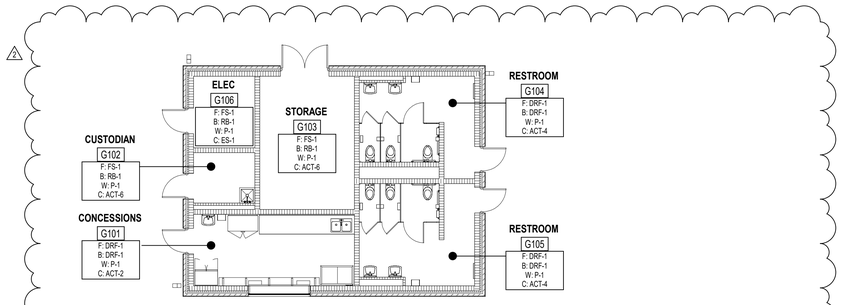
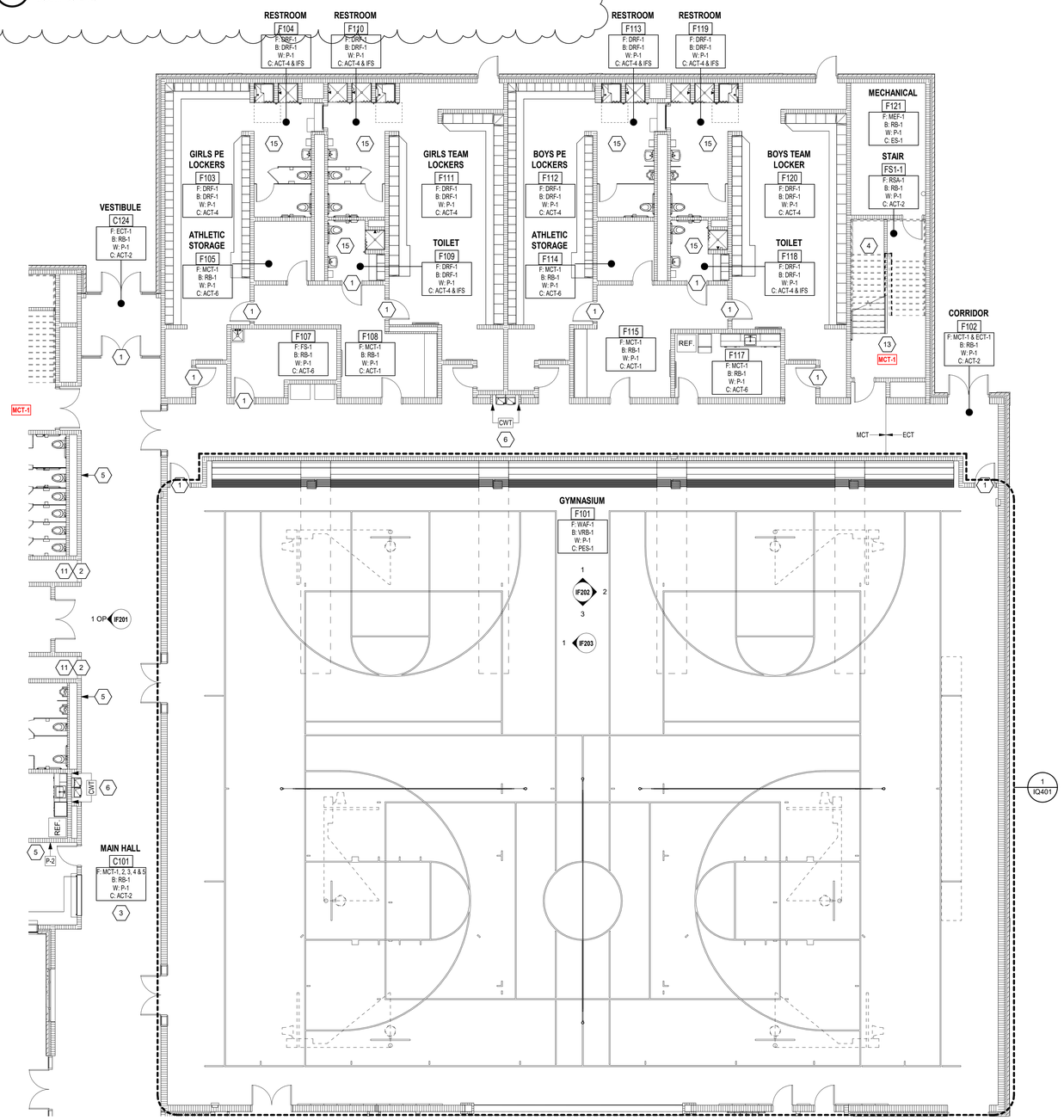


2 FIRST FLOOR FINISH PLAN - UNIT G

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



1 FIRST FLOOR FINISH PLAN - UNIT F

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

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GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINT GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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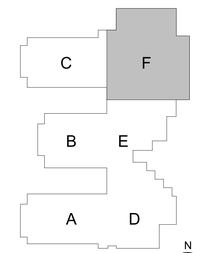


KEY PLAN

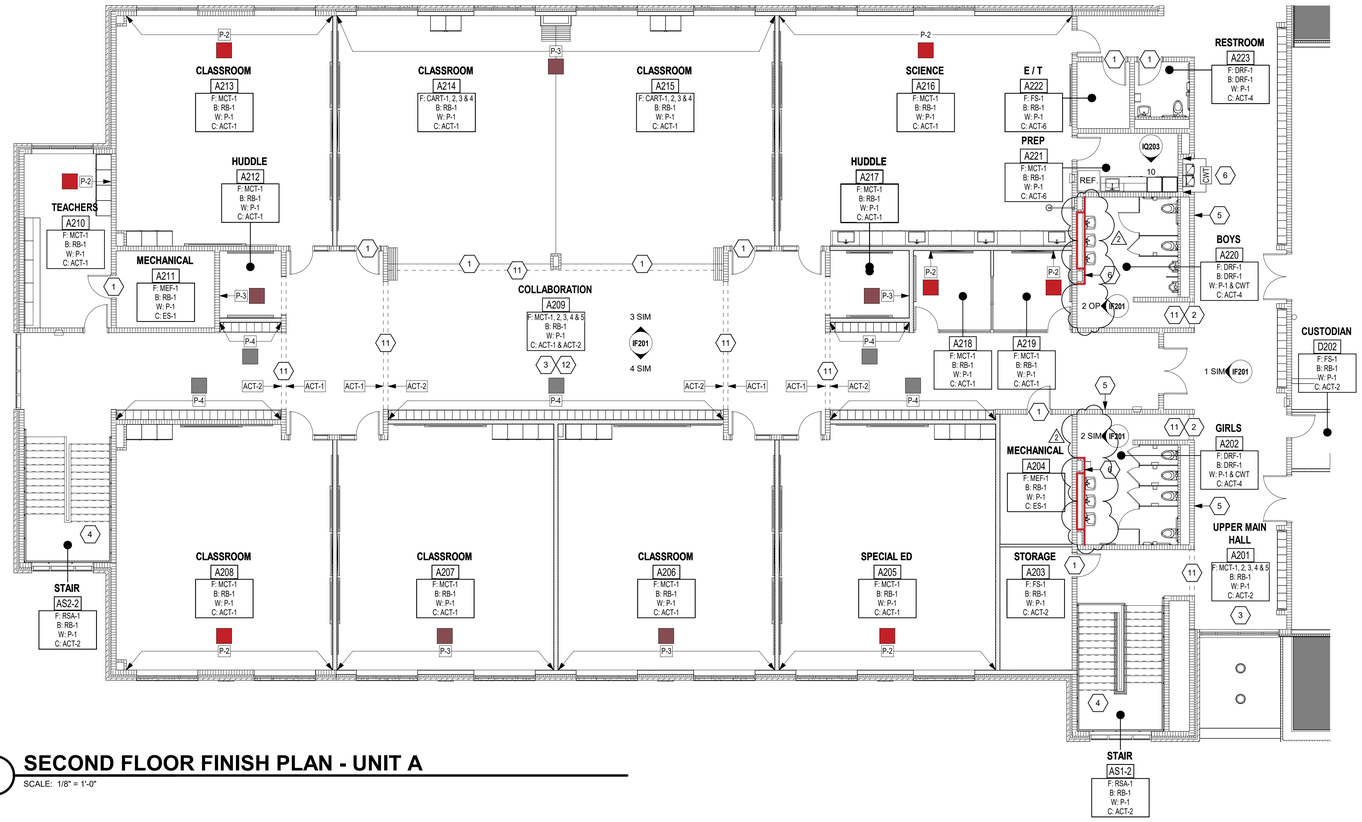
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR FINISH PLAN - UNIT F

IF11F



1 SECOND FLOOR FINISH PLAN - UNIT A

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSISTION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINTED GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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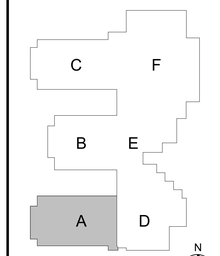

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

SECOND FLOOR FINISH PLAN - UNIT A

IF12A

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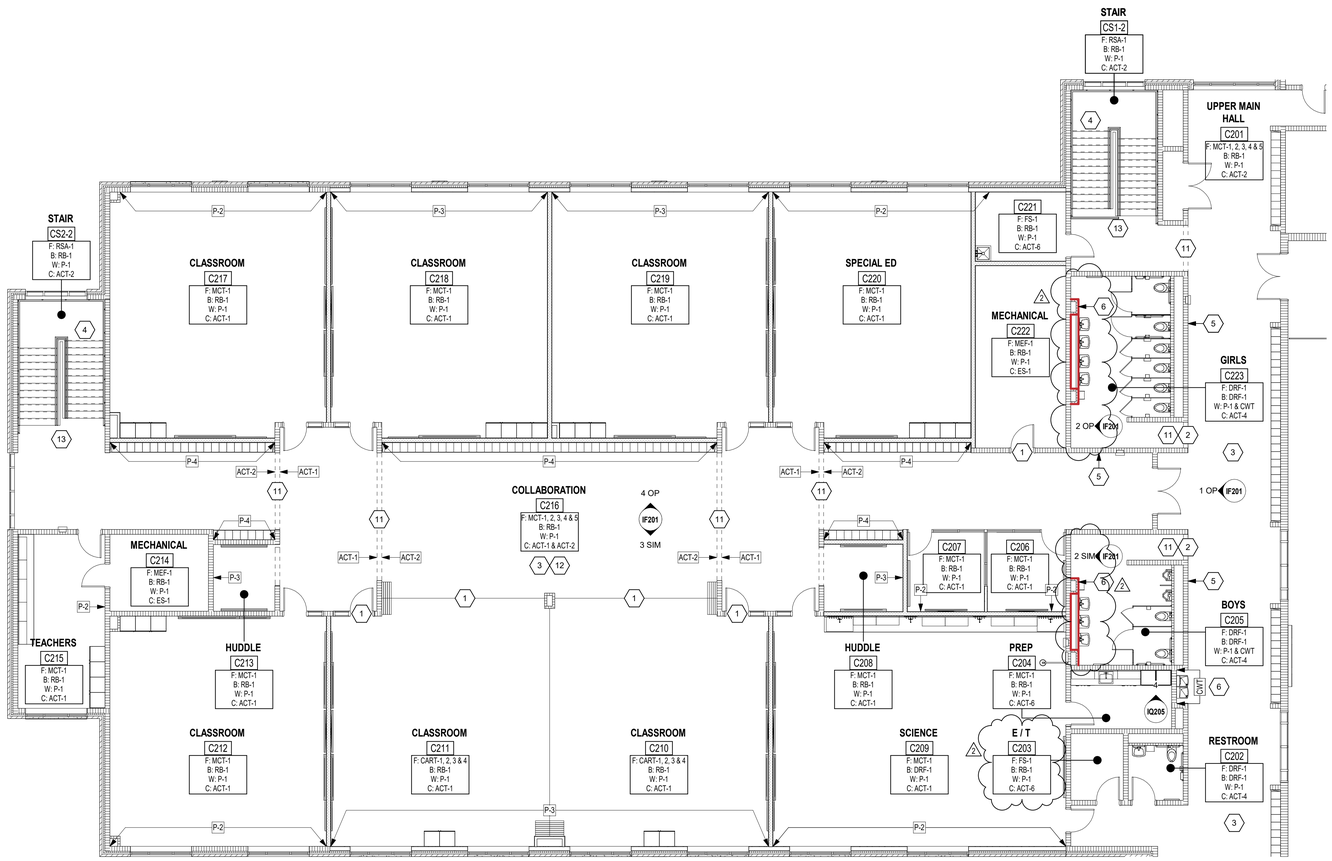

1 SECOND FLOOR FINISH PLAN - UNIT C

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINT GRAPHIC, EXACT IMAGE TO BE DETERMINED AT A LATER DATE. FOUR COLORS MINIMUM.
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION, SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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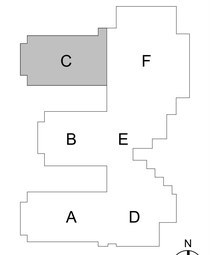

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

SECOND FLOOR FINISH PLAN - UNIT C

IF12C

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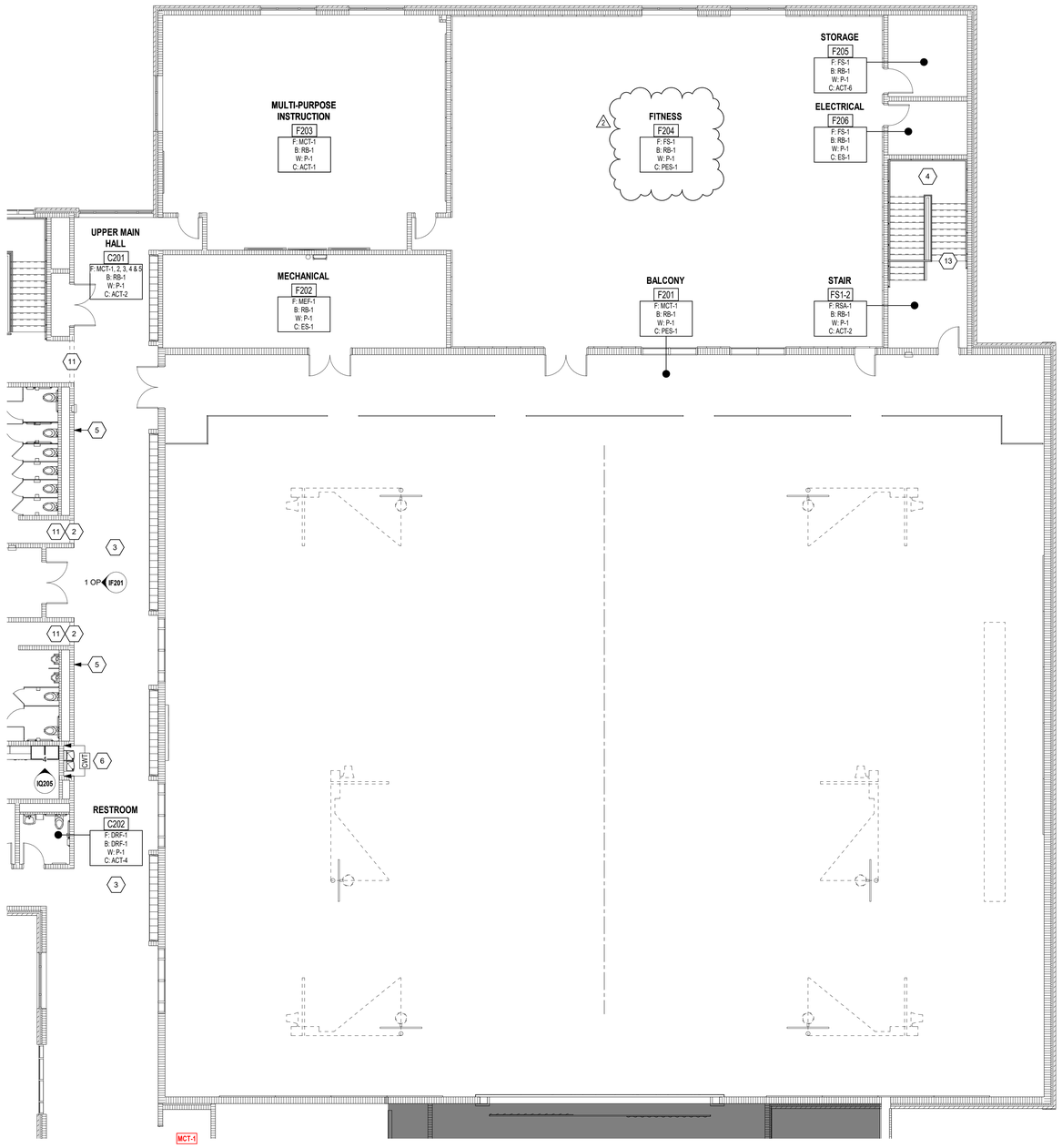

1 SECOND FLOOR FINISH PLAN - UNIT F

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. ALL CEILING TO RECEIVE PT-1, UNLESS OTHERWISE NOTED.
G. EXPOSED GFCMU SURFACES ARE NOT TO BE PAINTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. FLOORING TRANSITION.
2. FLOORING TRANSITION TO ALIGN WITH WALL FACE.
3. FLOORING PATTERN, SEE IF13 AND IF14 FOR ADDITIONAL INFORMATION.
4. RT TYPICAL AT MIDDLE LANDINGS, MCT-1 AT TOP AND BOTTOM OF STAIRS.
5. PAINT GRAPHIC (CRST IMAGE TO BE DETERMINED AT A LATER DATE, FOUR COLORS MINIMUM.)
6. INSTALL CWT HERE. SEE INTERIOR ELEVATIONS AND LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
7. INSTALL CWT-9, ALL EXPOSED SIDES, AS HIGHLIGHTED SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
8. INSTALL CWT-10 ON WET WALLS, AS HIGHLIGHTED, FLOOR TO CEILING AND CORNER TO CORNER. SEE LIST OF FINISHES FOR ADDITIONAL INFORMATION. SCHLUTER TRIM AS NEEDED.
9. WOOD SEAT AT GATHERING STAIR.
10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. BULKHEAD TO RECIEVE ACCENT PAINT, PT-4.
12. EXPOSED STRUCTURE TO RECIEVE ACCENT PAINT, PT-4.
13. GWB PAINT BELOW STAIRS TO BE PT-6.
14. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS AND PATTERN(S) OF ACT TYPES.
15. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF I.F.S.

VERIFICATION NOTE

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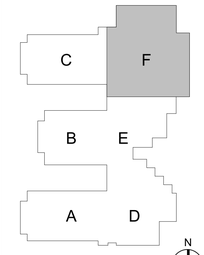

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

SECOND FLOOR FINISH PLAN - UNIT F

IF12F

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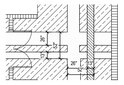
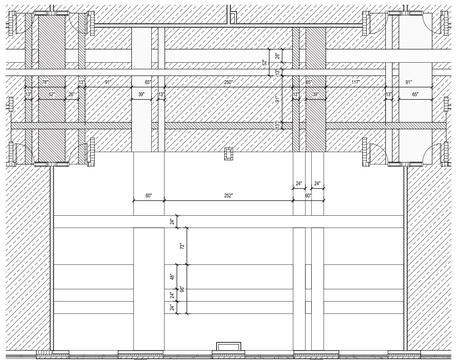


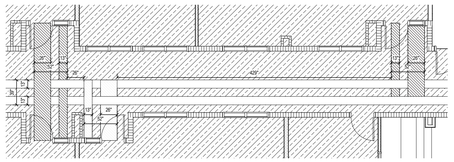
9 ENLARGED MAIN HALL C101 FLOORING

SCALE: 1" = 10'-0"



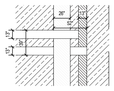
8 ENLARGED CORRIDOR C115 AND CLASSROOM FLOORING

SCALE: 1" = 10'-0"



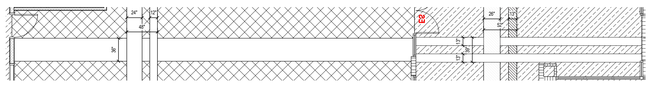
6 ENLARGED CORRIDOR B109 FLOORING

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



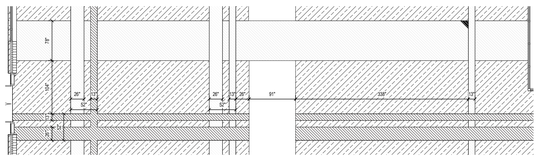
7 ENLARGED MAIN HALL B101 FLOORING

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



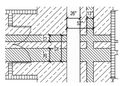
5 ENLARGED MEDIA CENTER AND MAIN HALL FLOORING

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



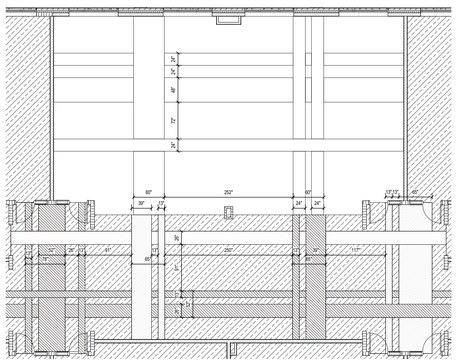
4 ENLARGED MAIN HALL AND CAFETERIA FLOORING

SCALE: 1" = 10'-0"



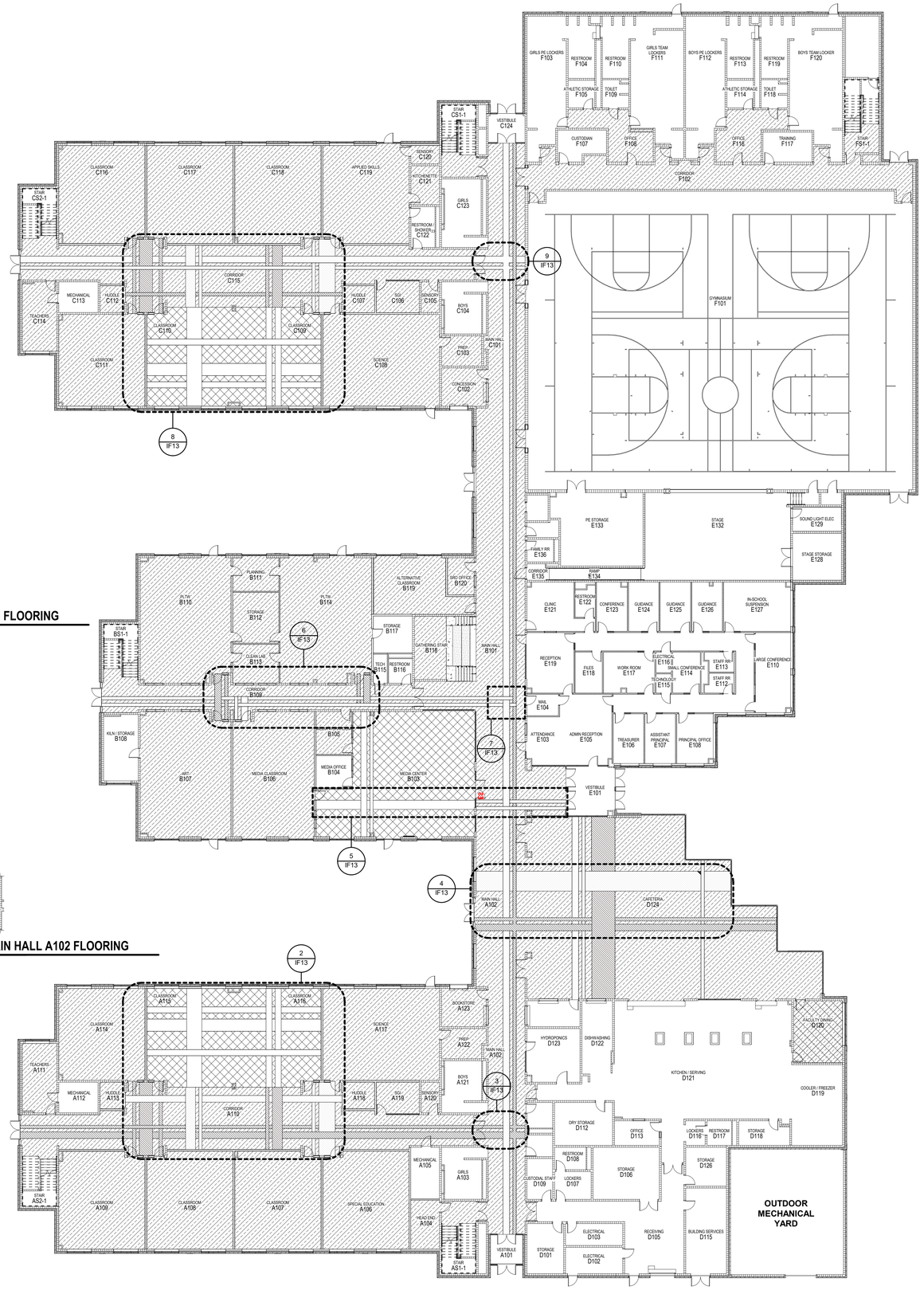
3 ENLARGED MAIN HALL A102 FLOORING

SCALE: 1" = 10'-0"



2 ENLARGED CORRIDOR A110 AND CLASSROOM FLOORING

SCALE: 1" = 10'-0"



1 FIRST FLOOR FLOORING FINISH PLAN

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

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. FLOORING PATTERN DESIGNED FOR FULL TILE WIDTH AND MINIMLA CUTS. REVIT DRAWING TO BE PROVIDED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- CART-1
- CART-2 ACCENT
- CART-3 ACCENT
- CART-4 ACCENT
- FS
- MCT-1
- MCT-2 ACCENT
- MCT-3 ACCENT
- MCT-4 ACCENT
- MCT-5 ACCENT

VERIFICATION NOTE

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.
- SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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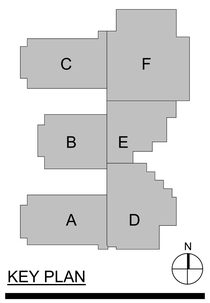

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11/25/2025

FIRST FLOOR FLOORING PLAN

IF13

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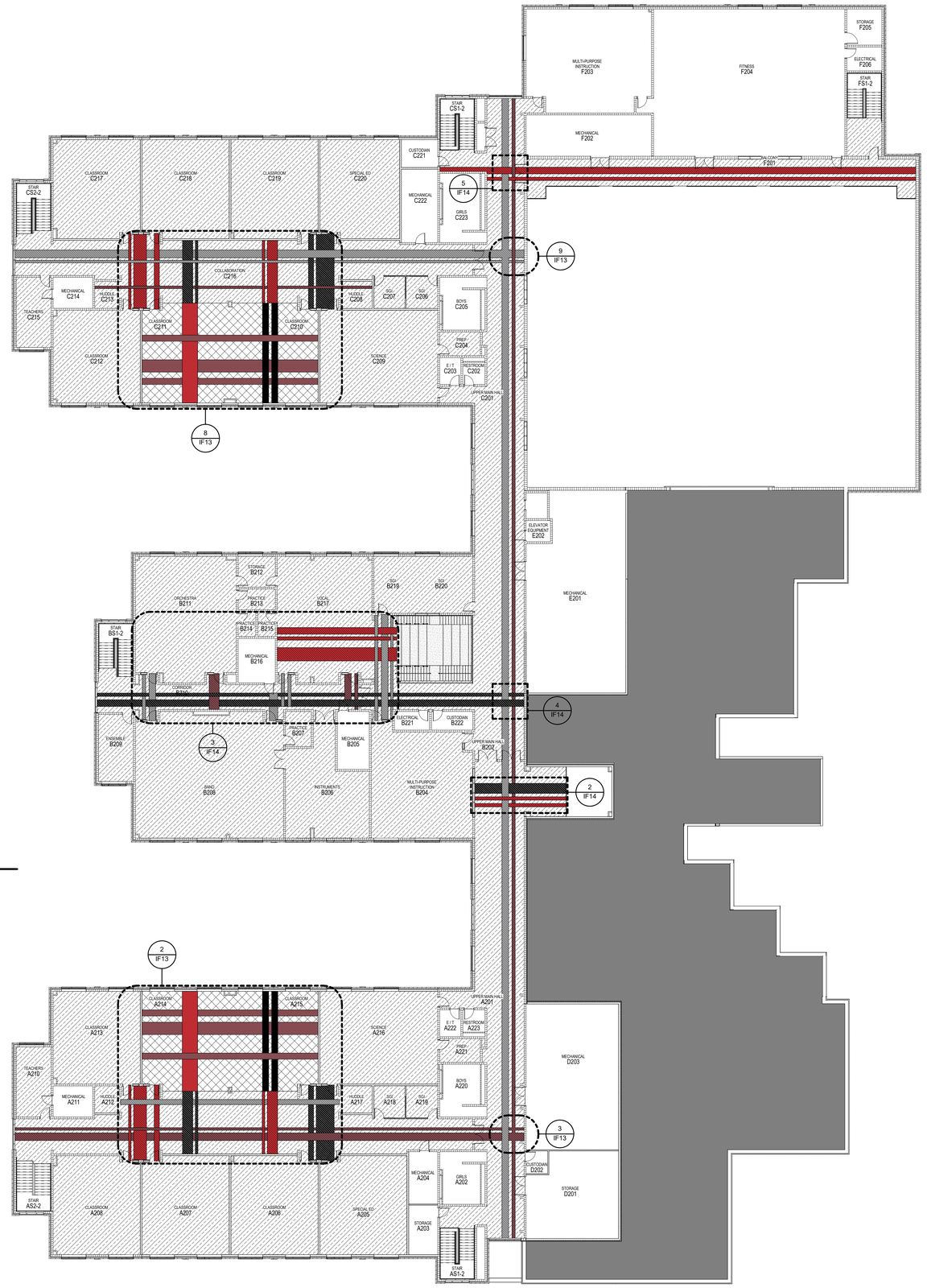
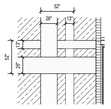
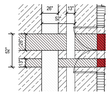
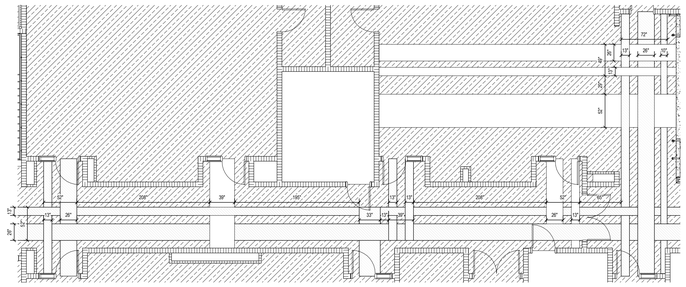




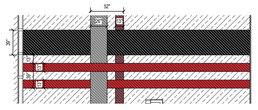
4 ENLARGED UPPER MAIN HALL B202 FLOORING
SCALE: 1/8" = 1'-0"



5 ENLARGED UPPER MAIN HALL C201 AND BALCONY FLOORING
SCALE: 1/8" = 1'-0"



3 ENLARGED CORRIDOR B210 AND VOCAL FLOORING
SCALE: 1/8" = 1'-0"



2 ENLARGED UPPER MAIN HALL A201 FLOORING
SCALE: 1/8" = 1'-0"

1 SECOND FLOOR FLOORING FINISH PLAN
SCALE: 1/16" = 1'-0"

GENERAL FINISH NOTES

A. ENSURE ALL SURFACES TO RECIEVE FINISHES AND CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. DO NOT PROCEED WITH INSTALLATION UNTIL SUBSTRAT HAS BEEN TESTED AND ADHERED TO FLOORING SPECIFICATIONS.
B. WHERE A CHANGE IN FLOORING MATERIAL OCCURS, SEE TYPICAL FLOORING TRANSITION DETAILS FOR TRANSITION STRIP SPECIFICATION. WHERE MATERIAL CHANGE OCCURS AT A DOOR, CENTER TRANSITION WITH THE DOOR.
C. AT ALL WALL BASE MATERIAL TRANSITIONS, GC TO PROVIDE 1/4" METAL TRANSITION STRIP BETWEEN MATERIALS.
D. ALL WALLS TO RECIEVE PT-1, UNLESS OTHERWISE NOTED.
E. ALL WALLS RECEIVING ACCENT PAINT TO BE PAINTED FLOOR TO CEILING, CORNER TO CORNER, UNLESS OTHERWISE NOTED.
F. FLOORING PATTERN DESIGNED FOR FULL TILE WIDTH AND MINIMLA CUTS. REVIT DRAWING TO BE PROVIDED.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- CART-1
- CART-2 ACCENT
- CART-3 ACCENT
- CART-4 ACCENT
- FS
- MCT-1
- MCT-2 ACCENT
- MCT-3 ACCENT
- MCT-4 ACCENT
- MCT-5 ACCENT

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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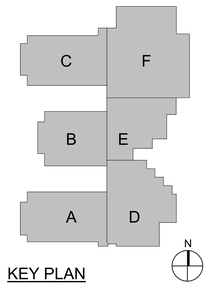

KEY PLAN

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PROJECT NUMBER: 223047.01
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SECOND FLOOR FLOORING PLAN

IF14

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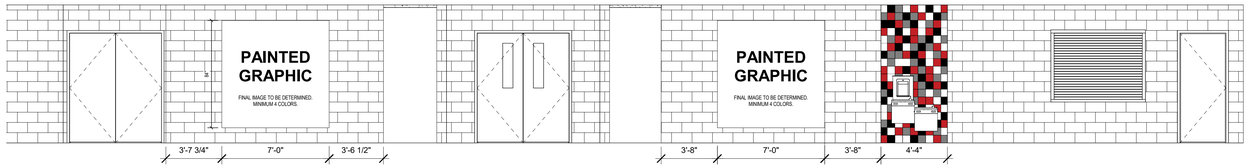
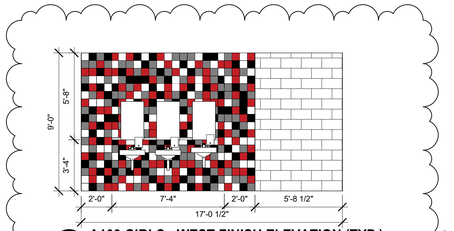
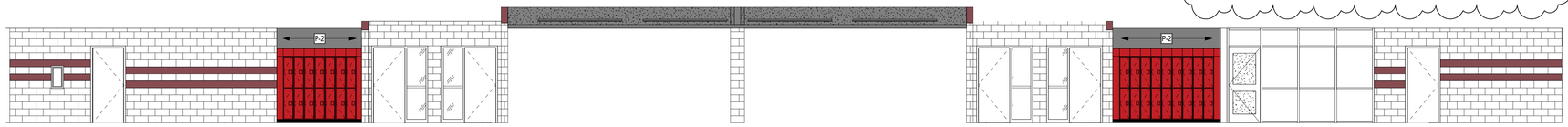


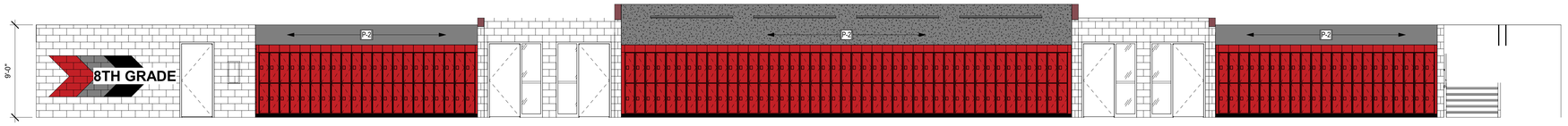
1 A102 MAIN HALL - WEST FINISH ELEVATION
SCALE: 1/4" = 1'-0"



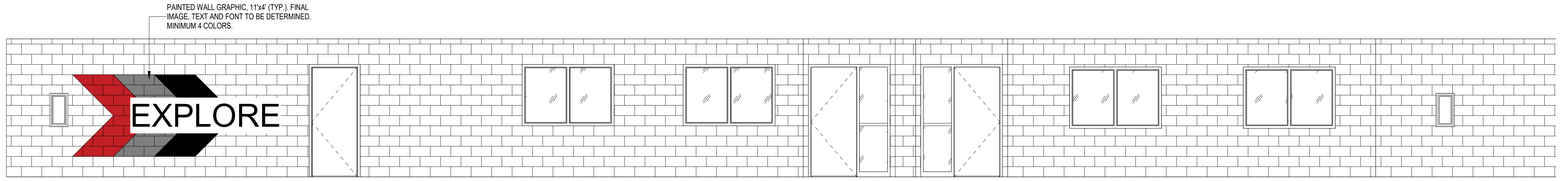
2 A103 GIRLS - WEST FINISH ELEVATION (TYP.)
SCALE: 1/4" = 1'-0"
*ALL EXPOSED SURFACES, AS HIGHLIGHTED ON FINISH PLANS, TO RECIEVE TILE.



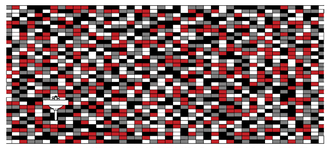
3 A110 CORRIDOR - NORTH FINISH ELEVATION
SCALE: 3/16" = 1'-0"



4 A110 CORRIDOR - SOUTH FINISH ELEVATION
SCALE: 3/16" = 1'-0"



5 B109 CORRIDOR - SOUTH FINISH ELEVATION
SCALE: 1/4" = 1'-0"



6 D121 KITCHEN/SERVING - TYPICAL TILE ELEVATION
SCALE: 1/4" = 1'-0"
*RANDOM PATTERN, (25/25/25/25) ELEVATION TYPICAL FOR ALL WALLS HIGHLIGHTED ON IF11D.

INTERIOR ELEVATION NOTES
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. PLASTIC LAMINATE CASEWORK, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. SOLID SURFACE COUNTERTOP, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. RESIN COUNTERTOP WITH INTEGRAL SINKS, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
6. SINGLE UNIT DISPLAY BOARD, SEE EQUIPMENT PLANS AND AQ-601 FOR DETAILS.
7. TV MONITOR

VERIFICATION NOTE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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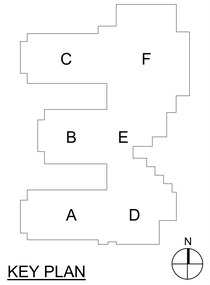

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1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

INTERIOR FINISH ELEVATIONS

IF201

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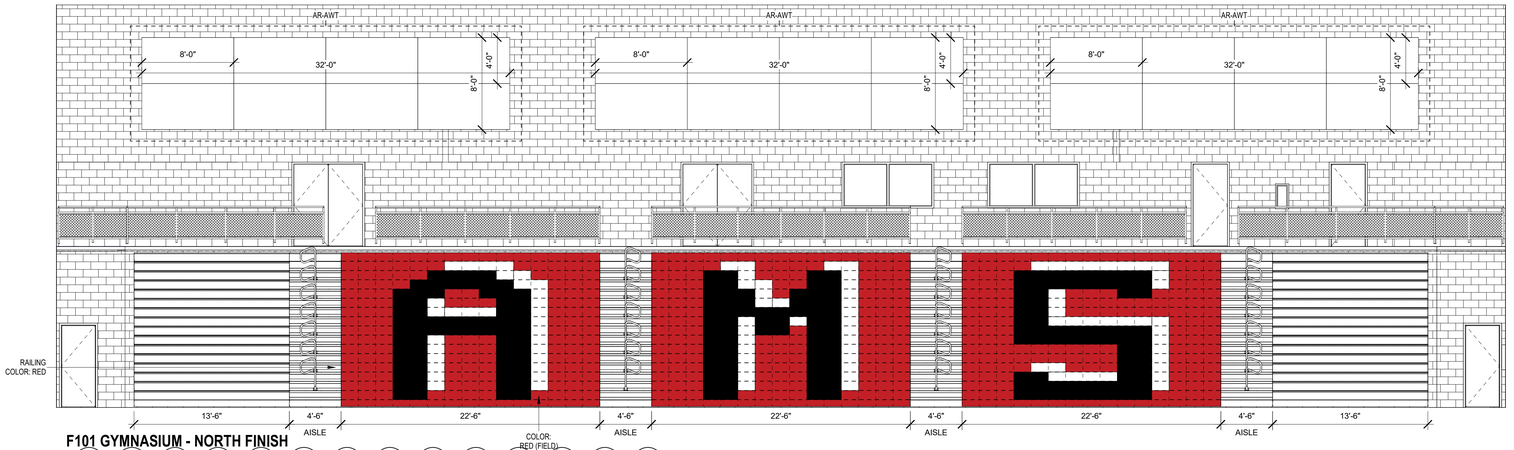
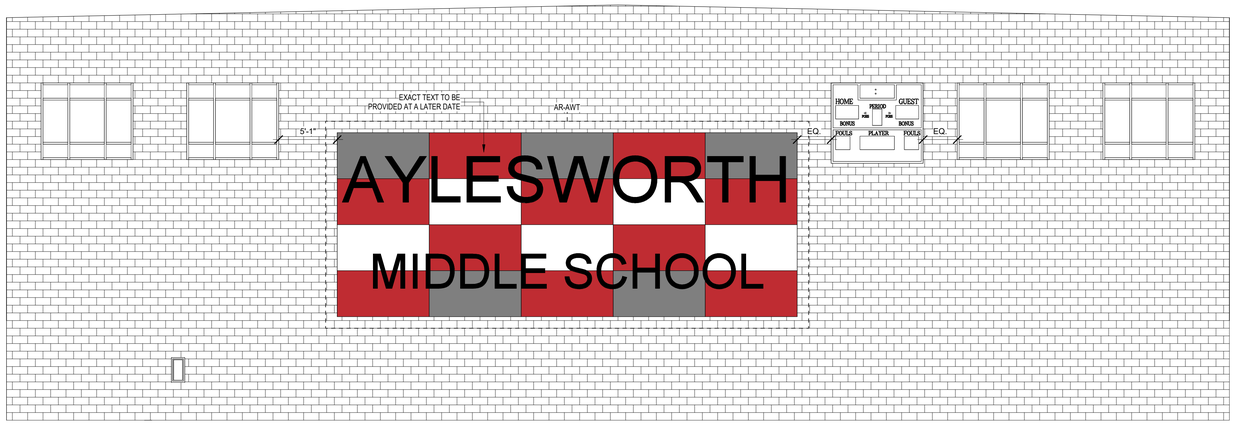


F101 GYMNASIUM - NORTH FINISH ELEVATION

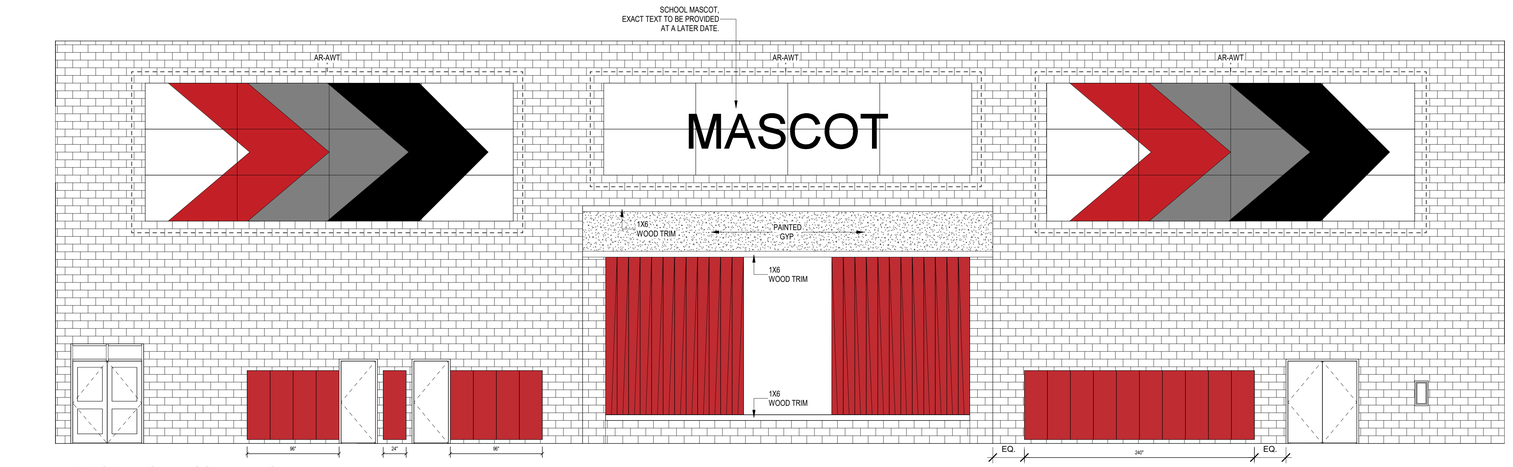
1 SCALE: 3/16" = 1'-0"

2 *NOTE: END RAILS ARE TO BE SELF-STACKING. REDUCE ONE (1) SEAT ON EACH, IF REQUIRED, TO ACCOMMODATE MANUFACTURER'S LAYOUT.



F101 GYMNASIUM - EAST FINISH ELEVATION

2 SCALE: 3/16" = 1'-0"



F101 GYMNASIUM - SOUTH FINISH ELEVATION

3 SCALE: 3/16" = 1'-0"

INTERIOR ELEVATION NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. PLASTIC LAMINATE CASEWORK, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. SOLID SURFACE COUNTERTOP, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. RESIN COUNTERTOP WITH INTEGRAL SINKS, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
6. SINGLE UNIT DISPLAY BOARD, SEE EQUIPMENT PLANS AND AQ-601 FOR DETAILS.
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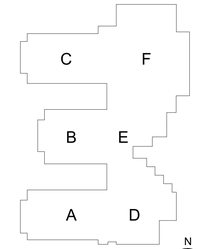

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PROJECT MANAGER: MKS

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1	Addendum #3	11/18/2025
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INTERIOR FINISH ELEVATIONS

IF202

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LIST OF FINISHES

WALL FINISHES

ABUSE RESISTANT - ACOUSTICAL WALL TILES

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
AR-AWT-1	CARDINAL PANELS	SEE ELEVATIONS FOR SW PAINT SELECTIONS

ACOUSTIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
AWP-1	DESIGNTEX	TO BE SELECTED
AWP-2	DESIGNTEX	TO BE SELECTED
AWP-3	DESIGNTEX	TO BE SELECTED
AWP-4	DESIGNTEX	TO BE SELECTED
AWP-5	DESIGNTEX	TO BE SELECTED

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
CWT-1	DALTILE - COLOR WHEEL	ARCTIC WHITE 0190 / 6"x6"
CWT-2	DALTILE - COLOR WHEEL	CURRANT SH17 / 6"x6"
CWT-3	DALTILE - COLOR WHEEL	CHALKBOARD 0180 / 6"x6"
CWT-4	DALTILE - COLOR WHEEL	BLACK K111 / 6"x6"
CWT-5 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	ARCTIC WHITE 0190 / 3"x6"
CWT-6 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	CURRANT SH17 / 3"x6"
CWT-7 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	CHALKBOARD 0180 / 3"x6"
CWT-8 (KITCHEN / SERVING)	DALTILE - COLOR WHEEL	BLACK K111 / 3"x6"
CWT-9 (KITCHEN / SERVING)	DALTILE - SHOWSCAPE	CURRANT SH17 / 12"x24"
CWT-10	DALTILE - SHOWSCAPE	COLOR TO BE DECIDED / 12"X24"

PAINT

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	SHERWIN WILLIAMS	TO BE SELECTED
P-2 (RED ACCENT)	SHERWIN WILLIAMS	TO BE SELECTED
P-3 (MAROON ACCENT)	SHERWIN WILLIAMS	SUN DRIED TOMATO SW7585
P-4 (GRAY ACCENT)	SHERWIN WILLIAMS	GRIZZLE GRAY SW7068
P-5 (DOOR AND WINDOW FRAMES)	SHERWIN WILLIAMS	BLACK MAGIC SW6991
P-6 (CEILING)	SHERWIN WILLIAMS	TO BE SELECTED

CEILING FINISHES

ACOUSTICAL CEILING TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
ACT-1 (FCLASSROOM)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-2 (CORRIDOR)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-3 (KITCHEN)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-4 (RESTROOMS)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-5 (VESTIBULES)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-6 (STORAGE)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-7 (OFFICES)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-8 (MUSIC 285)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-9 (GS MUSIC DIF)	REFER TO SPECIFICATIONS	WHITE / 24"x24"
ACT-10 (GS MUSIC DIF)	REFER TO SPECIFICATIONS	OFFSET PYRAMIDAL DIFFUSOR

GYPSUM WALLBOARD CEILING AND BULKHEADS

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
GWB - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR TYPE AND HEIGHT.		

GWB - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR TYPE AND HEIGHT.
GWBB - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR BULKHEAD TYPE AND HEIGHT.

PAINTED EXPOSED STRUCTURE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION

PES - REFER TO REFLECTED CEILING PLANS AND PROJECT MANUAL FOR PAINT TYPE AND HEIGHT.

MISCELLANEOUS FINISHES

CORNER GUARDS

8'-2" HIGH, MOUNT AT 4" AFF.

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
CG-1	REFER TO SPECIFICATIONS	TO BE SELECTED

INTERIOR WOOD DOORS AND TRIM

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION

- REFER TO SPECFICATIONS, STAINED TO MATCH WILSONART: GOLDEN SHORES TEAK.
- PROVIDE WOOD STAIN SAMPLES FOR VERIFICATION.

GROUT

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
GT-1	REFER TO SPECIFICATIONS	MATCH: MAPEI - AVALANCHE 38

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
CART-1 (ALL OVER)	MANNINGTON - LIMINAL SPACE: INCLINATION	CRYPTIC 11601 / 12x36
CART-2 (ACCENT)	MANNINGTON - COLOR ANCHOR II	POPPY 73013 / 12x36
CART-3 (ACCENT)	MANNINGTON - COLOR ANCHOR II	BEETROOT 74017 / 12x36
CART-4 (ACCENT)	MANNINGTON - EXCHANGE 2: TRANSMIT	OPERATOR 14148 / 24x24
CART-5 (ADMIN ACCENT)	MANNINGTON - SPIN REMIX: RPM RMX	ZYDECO 73228 / 12x36

- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- INSTALLATION METHOD OF CART- 1, 2, 3 & 5 TILE IS TO BE VERTICAL ASHLAR. CART-4 IS TO BE QUARTER TURN.
- SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

DECORATIVE RESINOUS FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
DRF-1	REFER TO SPECIFICATIONS	MATCH SHERWIN WILLIAMS RESUFLOR TOPCOAT METALLIC IN ANGEL WING AND LIQUID PENDANT.

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
ECT-1	MANNINGTON - STEP UP II	OBSIDIAN 989 / 24x24

- INSTALLATION METHOD OF ALL ENTRANCE CARPET TILE IS TO BE QUARTER TURN.

FLOOR SEALER

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
FS-1	REFER TO SPECIFICATIONS	CLEAR

FLUID APPLIED CEMENTITIOUS URETHANE FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
EUF-1	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD - TO BE SELECTED

LUXURY VINYL TILE (ALTERNATE)

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
LVT-1	MANNINGTON - AMTICO SIGNATURE: STONE	TEMPUS EMBRACE (AR0STE30) / 12x24
LVT-2 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: ABSTRACT	BANGKOK (ARIACF59) / 12x24
LVT-3 (ACCENT)	MANNINGTON - COLOR ANCHOR: GROOVE	RHUBARB PIE (C102) / 12x24
LVT-4 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: STONE	TEMPUS PAUSE (TE37) / 12x24
LVT-5 (ACCENT)	MANNINGTON - AMTICO SIGNATURE: STONE	GRAPHITE SLATE (AR0SL24) / 12x24

MECHANICAL EPOXY FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
MEF-1	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD - TO BE SELECTED

RESILIENT TILE FLOORING (LINOLEUM FLOORING)

MATERIAL ABBREVIATION	MANUFACTURER / STYLE	COLOR SELECTION
MCT-1	FORBO MARMOLEUM	EIGER T2629 / 33.3CMx33.3CMx2.0MM
MCT-2 (ACCENT)	FORBO MARMOLEUM	BLEECKERSTREET 3127 / 33.3CMx33.3CMx2.0MM
MCT-3 (ACCENT)	FORBO MARMOLEUM	BURGANDY 3276 / 33.3CMx33.3CMx2.0MM
MCT-4 (ACCENT)	FORBO MARMOLEUM	GRAPHITE T3048 / 33.3CMx33.3CMx2.0MM
MCT-5 (ACCENT)	FORBO MARMOLEUM	BLACK 2939 / 33.3CMx33.3CMx2.0MM

RESILIENT TREADS & RISERS / RESILIENT STAIR ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RSA-1	JOHNSONITE-TARKETT COLORS SPLASH INTEGRATED TREAD AND RISER	TO BE SELECTED - DIAMOND PATTERN VICNNTR - GRIT TAPE COLOR TO BE SELECTED

RUBBER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RFT-1	JOHNSONITE-TARKETT COLORS SPLASH INTEGRATED TREAD AND RISER	BLACK - RAISED SQUARE PATTERN VICNNTR - GRIT TAPE COLOR TO BE SELECTED

RUBBER SHEET ATHLETIC FLOORING (ALTERNATE FOR FS IN F204)

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RSAF-1	REFER TO SPECIFICATIONS	MATCH MONDO DARK GREY L06

WOOD ATHLETIC FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
WAF-1	REFER TO SPECIFICATIONS	TO BE SELECTED

WOOD FLOORING

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
WD-1	REFER TO SPECIFICATIONS	TO BE SELECTED

BASE MATERIALS

CERAMIC TILE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CTB-1	DALTILE - COLOR WHEEL: COVE BASE	BLACK K111

DECORATIVE RESINOUS FLOORING (INTEGRAL COVE BASE)

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
DRF-1	MATCH DRF-1 FLOORING	MATCH DRF-1 FLOORING

RESILIENT BASE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RB-1	JOHNSONITE-TARKETT	BLACK B 40

MATERIAL & FINISH GENERAL NOTES

GENERAL

A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (IF SERIES) FOR MATERIALS, PATTERNS AND COLORS.
B. REFER TO IQ601 FOR ADDITIONAL FINISHES NOT NOTED HERE.
C. ELEVATOR CAB TO BE WILSONART: HANDSPUN PEARL (5033-38), WITH CARPET TILE, CART-1, FLOORING.

FLOORING

A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.
E. COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING INSTALLER.
F. REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.
G. PROVIDE RSA ON ALL STAIRS. REFER TO FINISH PLANS FOR MATERIAL/COLOR TO BE INSTALLED.
H. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

WALL BASE

A. ALL RB BASE TO BE COVED.
B. PROVIDE PREFORMED BASE TO MATCH 1"RADIUS AT ALL LOCATIONS WHERE BASE COVERS MASONRY BULLNOSE. REFER TO FINISH SCHEDULE FOR BASE MATERIAL TYPE. TYPICAL AT ALL LOCATIONS. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT & STAIN

A. PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. PAINT ONCE MOCK-UP CLASSROOM TO RECEIVE ARCHITECT'S APPROVAL PRIOR TO ORDERING PAINT FOR THE ENTIRE BUILDING.

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
C. ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.22 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
D. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
E. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
F. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.223 (EPOXY-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
G. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.224 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
H. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #9.211 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
I. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
J. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
K. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
L. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.
M. ALL WALLS ARE TO RECEIVE AN EGGSHELL FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.

PAINT COLOR GENERAL NOTES

A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P-5.
C. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
D. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
E. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-6 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES TO BE PAINTED P-5 UNLESS OTHERWISE NOTED.
G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.

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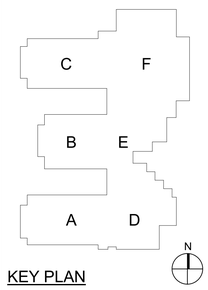

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

LIST OF FINISHES

IF601

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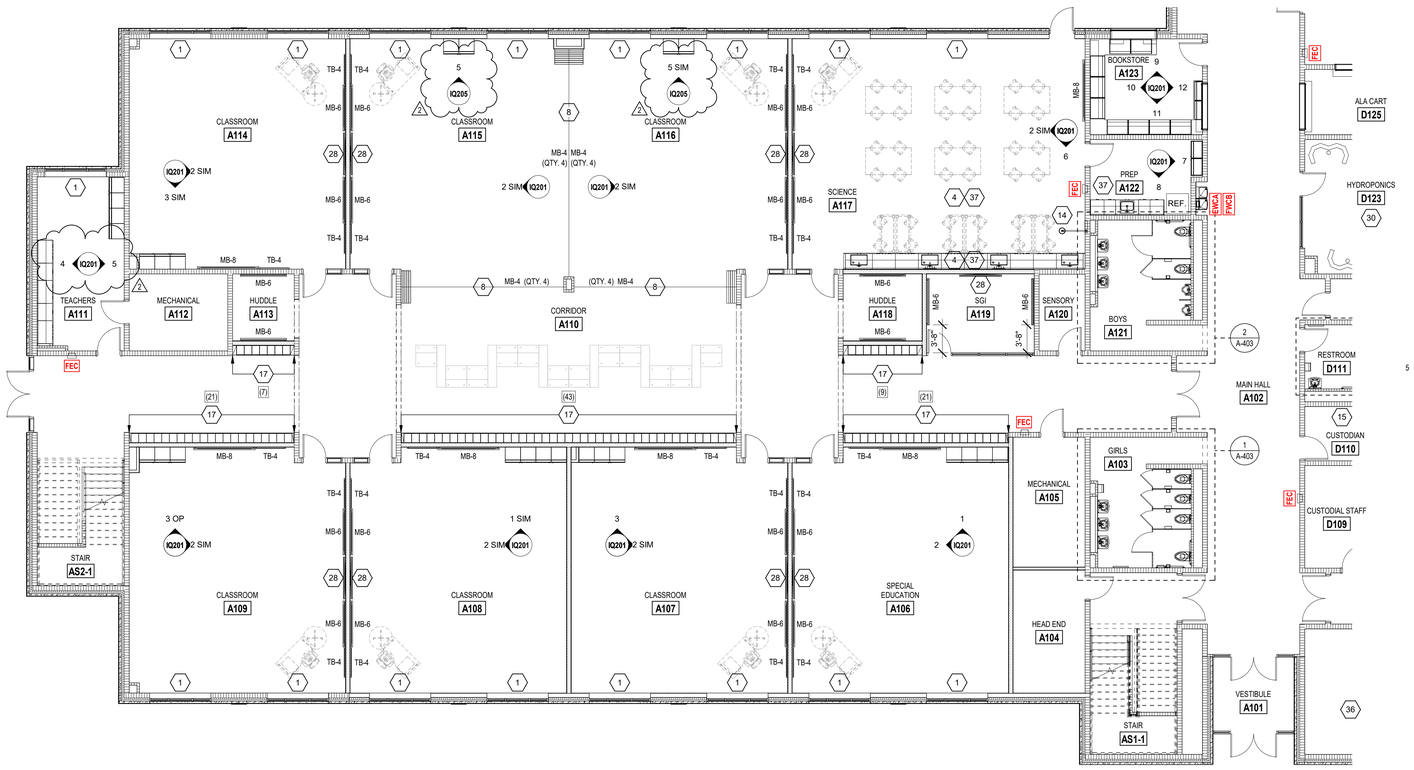

1 FIRST FLOOR EQUIPMENT PLAN - UNIT A

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE, BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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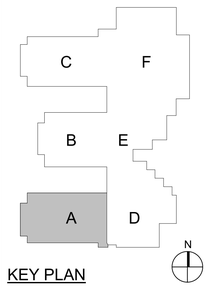

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT A

IQ11A

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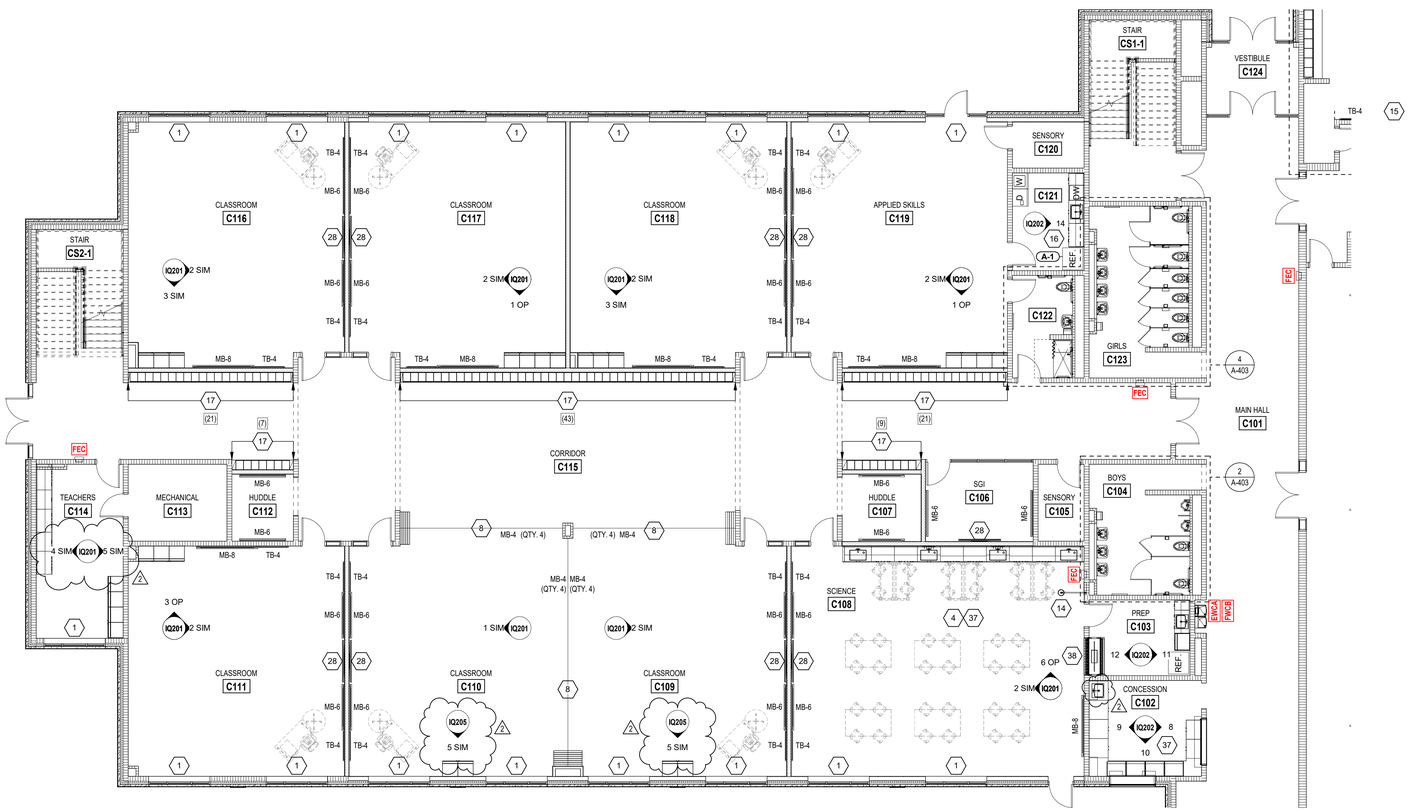

1 FIRST FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
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7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE, BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING. AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
    SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRUMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
    A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
    B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
    C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
    H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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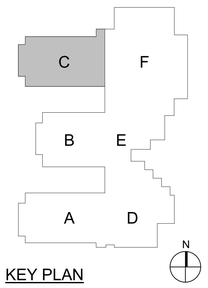

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT C

IQ11C

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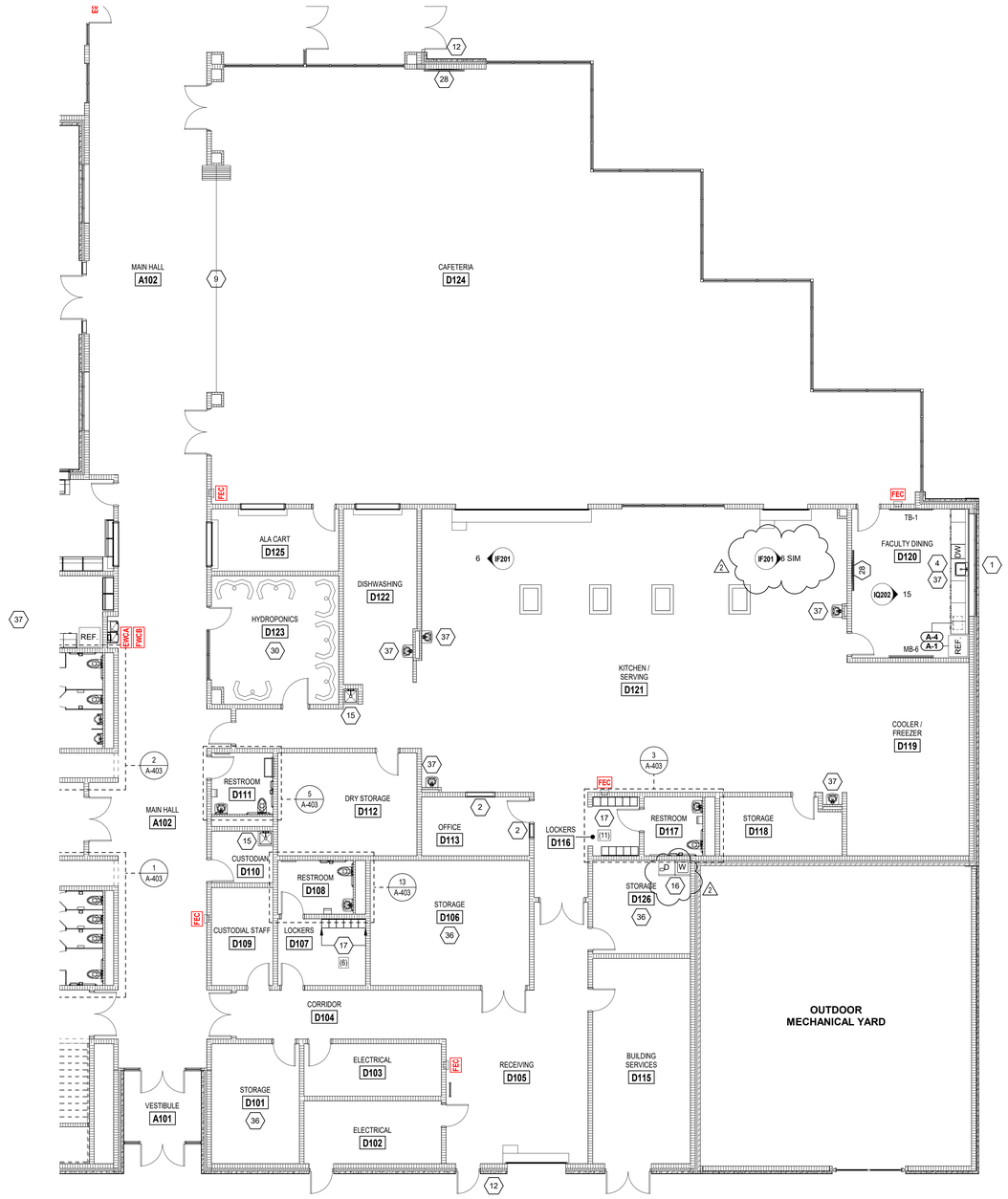

1 FIRST FLOOR EQUIPMENT PLAN - UNIT D

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMIEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE: BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAUTECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES. SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC.
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

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ARCHITECT

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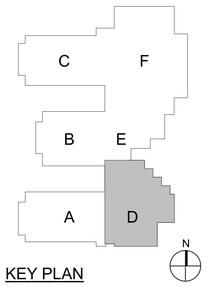

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10900161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT D

IQ11D

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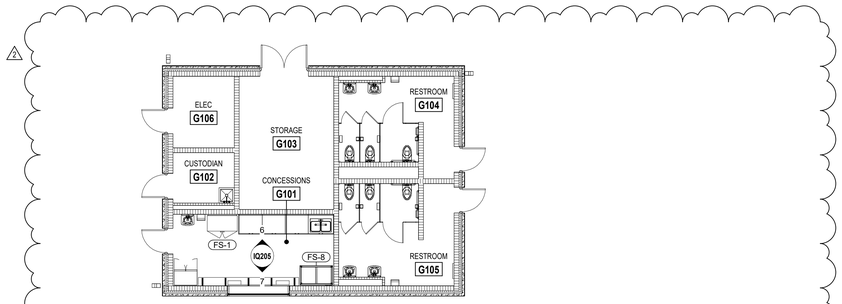
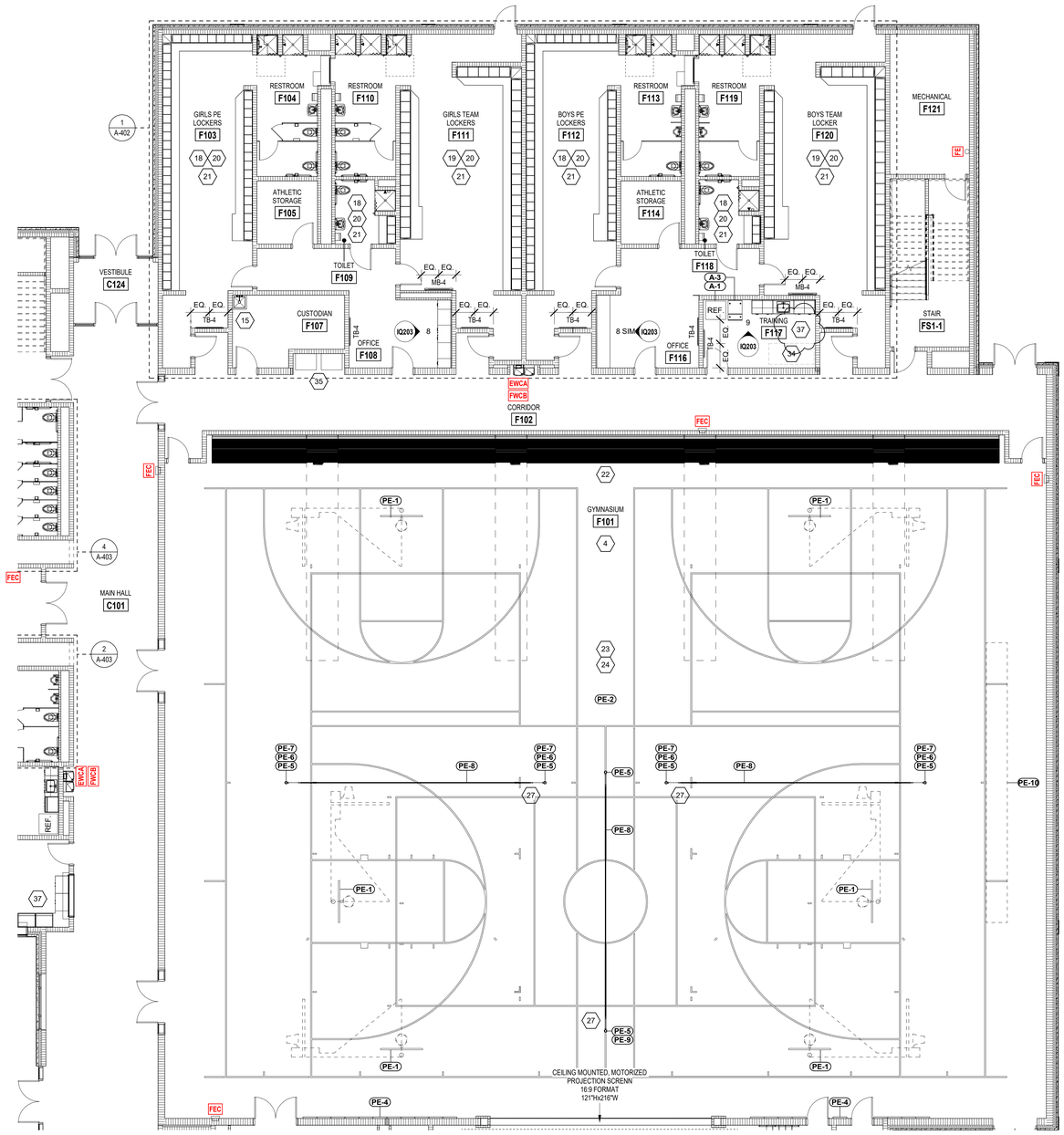


2 FIRST FLOOR EQUIPMENT PLAN - UNIT G

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



1 FIRST FLOOR EQUIPMENT PLAN - UNIT F

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" D. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE: BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES. SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
    SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-90D). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
    A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
    B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
    C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC.
    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
    H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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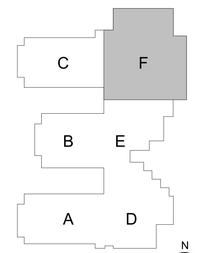

KEY PLAN

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

FIRST FLOOR EQUIPMENT PLAN - UNIT F

IQ11F

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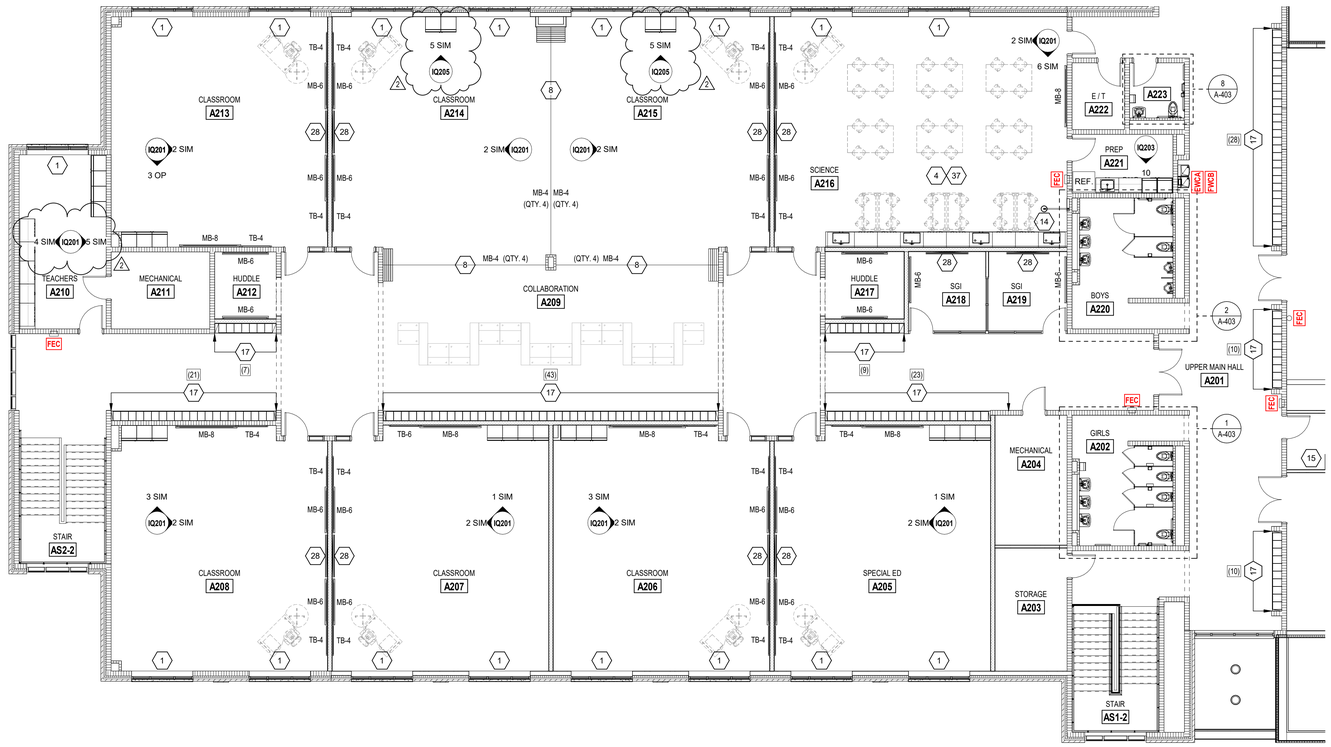

1 SECOND FLOOR EQUIPMENT PLAN - UNIT A

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
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20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE, BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

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29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
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32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
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36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

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    B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
    C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTINGS, ACCESSORIES, ETC..
    D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
    E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
    F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
    G. PROVIDE CEILING ENCLOSURE.
    H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

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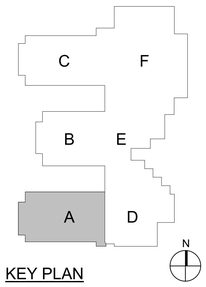

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

SECOND FLOOR EQUIPMENT PLAN - UNIT A

IQ12A

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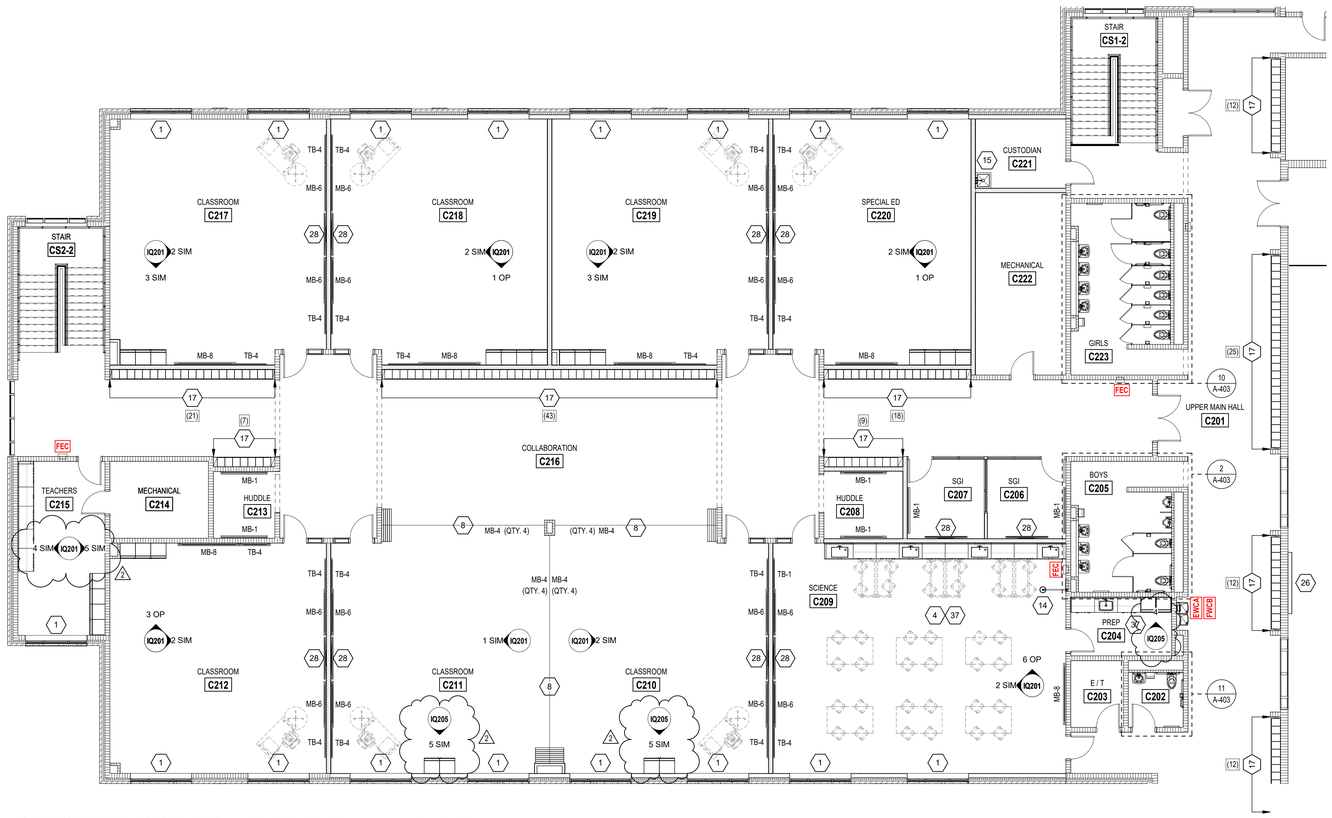

1 SECOND FLOOR EQUIPMENT PLAN - UNIT C

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

EQUIPMENT GENERAL NOTES

A. HIDDEN LINES ( ) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES ( ) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).

B. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS NOTED. CENTERED ON WALL, UNLESS OTHERWISE NOTED. SEE MOUNTING HEIGHT DRAWING.

C. (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS NOTED. CENTERED ON WALL UNLESS OTHERWISE NOTED. SEE TO MOUNTING HEIGHT DRAWING.

D. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.

E. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.

F. FINISH ALL EXPOSED ENDS AND BACKS OF CASEWORK.

G. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING AND ELECTRICAL LINES.

H. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES AND WALLS.

I. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH TOP OF UNIT AT 7'-0" AFF, UNLESS OTHERWISE NOTED.

J. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.

K. REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.

EQUIPMENT NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PROVIDE NEW ROLLER SHADE (RWS-1) AT EXTERIOR WINDOWS. SEE SHEET IQ503.
2. PROVIDE NEW ROLLER SHADE (RWS-2) AT INTERIOR WINDOWS. SEE SHEET IQ503.
3. TACKABLE WALL SURFACE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. ACCOUSTICL WALL TREATMENT, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
5. 2' X 6' ACCOUSTICAL WALL TREATMENT (AWT-7) INSTALLED HERE, CENTERED ON WALL AND 16" AFF.
6. 36" X 72" BAND MIRROR INSTALLED HERE, CENTERED ON WALL AND 4" AFF.
7. WALL MIRRORS TO BE INSTALLED HERE, SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
8. MANUAL OPERABLE (FOLDING) PARTITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 4'H AND 3'AFF. MARKERBOARD SECTIONS IN OPERABLE WALL PARTITION WHERE INDICATED ON PLANS.
9. OPERABLE GLASS PARTITON. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
10. CUBICLE CURTAIN AND TRACK, SEE SHEET IQ503.
11. OVERHEAD ELECTRICAL REELS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. LOCATIONS TO BE DETERMEND WITH OWNER.
12. KNOX BOX TO BE PROVIDED HERE.
13. PROVIDE 6" PLUMBING CHASE BEHIND BASE CABINETS. COUNTER TO BE 30" O. PULL TALL CABINETS FORWARD TO ALIGN WITH BASE CABINETS. PROVIDE FILLER AND BLOCKING AS REQUIRED.
14. FOLD DOWN EMERGENCY EYEWASH AND SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE TOILET ACCESSORY, MOP HOLDER (MH), AT FLOOR SINK.
16. WASHER AND DRYER HOOKUPS, SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
17. TWO-TIER, LOCKERS. TYPE A, 12"Wx15"Dx72"H. SEE LOCKER DETAIL 1/IQ503.
18. SINGLE-TIER, GYM LOCKERS. TYPE B, 15"Wx60"Hx15"D. SEE LOCKER DETAIL 2/IQ503.
19. SINGLE-TIER, GYM LOCKERS. TYPE C, 18"Wx60"Hx18"D. SEE LOCKER DETAIL 3/IQ503.
20. BUILT-IN CONCRETE LOCKER BENCHES, SEE IQ503 AND FOR ADDITIONAL INFORMATION.
21. PROVIDE PLASTIC LAMINATE LOCKER TOP ON ALL METAL LOCKERS IN LOCKER ROOM. SEE SHEET IQ503.
22. TELESCOPING BLEACHERS IN THE CLOSED POSITION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
23. SEE FINISH PLANS FOR COURT LAYOUTS AND ADDITIONAL INFORMATION.
24. SCORING TABLE: BY OWNER. SEE ELECTRICAL PLANS FOR FLOOR BOX LOCATION.
25. WALL PADDING (PE-4) INSTALLED AROUND PERIMETER OF ROOM OR WHERE INDICATED ON PLANS. PROVIDE INSERTS, SIZED AS REQUIRED, FOR ELECTRICAL/TECH DEVICES. STOP WALL PADDING AT HM DOORS AND WINDOW FRAMES. ADJUST HEIGHT TO ALIGN WITH SILLS/JAMBS.
26. INTERIOR SCOREBAORDS. SEE MOUNTING HEIGHTS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
27. VOLLEYBALL FLOOR SLEEVES, SEE DETAILS FOR ADDITIONAL INFORMATION.

EQUIPMENT

28. WALL MOUNTED TV MONITOR - BY OWNER
CENTERED ON WALL, UNLESS OTHERWISE NOTED. GC TO PROVIDE BLOCKING, AS REQUIRED. REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
29. 3D PRINTER - BY OWNER
30. FLEX FARM UNITS - BY OWNER
31. ELECTRICAL KILN
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32. MOBILE INSTRAMENT STORAGE (NOT SHOWN) - BY OWNER
33. WRESTLING MATTS - BY OWNER
34. TAPING TABLE - BY OWNER
35. VENDING MACHINES - BY OWNER
36. STORAGE SHELVING - BY OWNER
37. SOAP AND PAPER TOWEL DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR.

FUME HOOD

38. FUME HOOD: THE ELIMINATOR EH SERIES (MODEL NO. EH-900). FUME HOOD MANUFACTURED BY AIR MASTER SYSTEMS WITH THE FOLLOWING FEATURES:
A. 60"Wx48"Hx32"D DOUBLE-SIDED, STAND ALONE, FUME HOOD ASSEMBLY.
B. PROVIDE AND INSTALL LED LIGTH FIXTURES.
C. PROVIDE ADA 60"W BASE CABINET (HB-3548 AND HB-3524). SEE CASEWORK ELEVATION FOR ORIENTATION. PROVIDE CUP SINK, SINK OULET, TAILPIECE AND INSTALL REMOTE CONTROLLER SERVICE FITTNGS, ACCESSORIES, ETC..
D. SERVICES: COLD WATER ONLY AT CUP SINK AND TWO 120V, 20AMP, GFI DUPLEX OUTLETS, PER EACH SIDE.
E. FIELD CONNECTIONS TO SERVICE FITTINGS SHALL BE MECHANICAL. THE LIGHT SWITCH, FAN, 2-POSITION SWITCH, MONITORING EQUIPMENT AND OUTLETS ON THE FUME HOOD SHALL BE PROVIDED AND INSTALLED/PRE-WIRED BY THE FUME HOOD MANUFACTURER, TO A JUNCTION BOX AT THE PERIMETER OF THE FUME HOOD ENCLOSURE.
F. FIELD/FINAL CONNECTIONS TO ELECTRICAL DEVIES (AT JUNCTION BOXES) SHALL BE BY ELECTRICAL.
G. PROVIDE CEILING ENCLOSURE.
H. PROVIDE FUME HOOD MONITOR (MODEL NO. AFA 500 MK3) WITH MOUNTING HARDWARE, TUBING, SIDEWALL ADAPTER AND POWER SUPPLY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

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ARCHITECT

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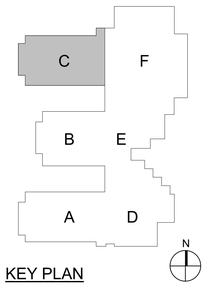

KEY PLAN

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

SECOND FLOOR EQUIPMENT PLAN - UNIT C

IQ12C

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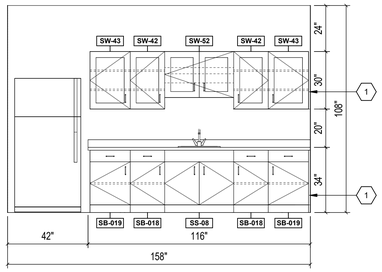
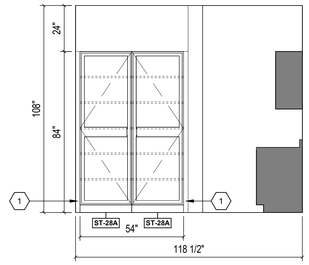


8 **A122 PREP - SOUTH ELEVATION**
SCALE: 3/8" = 1'-0"



7 **A122 PREP - EAST ELEVATION**
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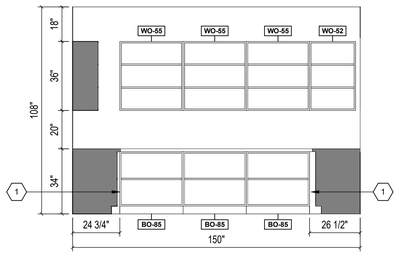

10 **A120 BOOKSTORE - WEST ELEVATION**
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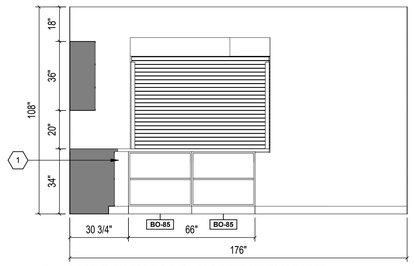

9 **A123 BOOKSTORE - NORTH ELEVATION**
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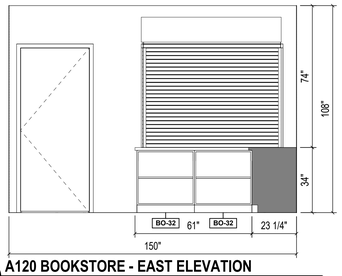

12 **A120 BOOKSTORE - EAST ELEVATION**
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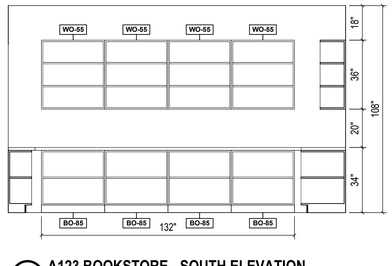

11 **A123 BOOKSTORE - SOUTH ELEVATION**
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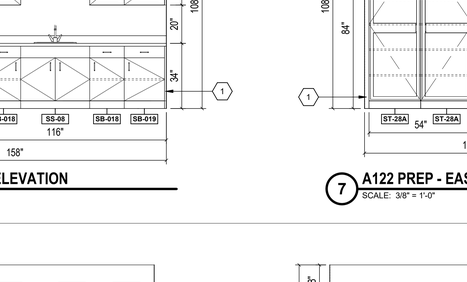

13 **B105 MEDIA WORKROOM - WEST ELEVATION**
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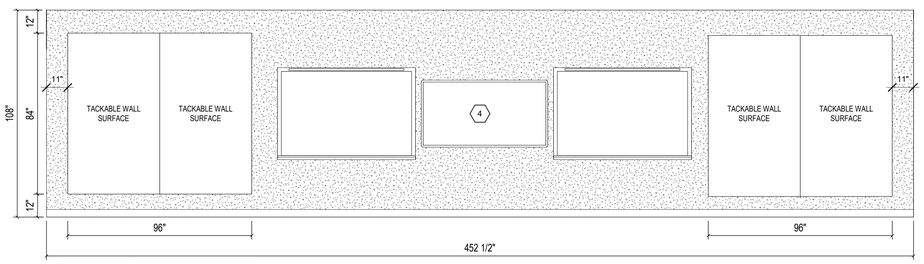
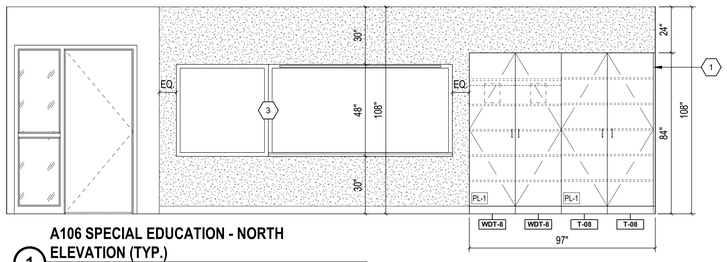


14 **B107 ART - EAST ELEVATION**
SCALE: 3/8" = 1'-0"



1 **A106 SPECIAL EDUCATION - NORTH ELEVATION (TYP.)**
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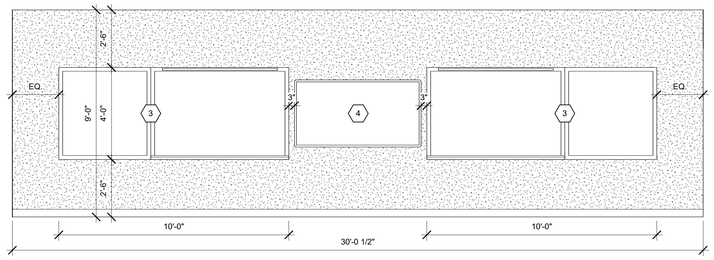

2 **A106 SPECIAL EDUCATION - WEST ELEVATION (TYP.)**
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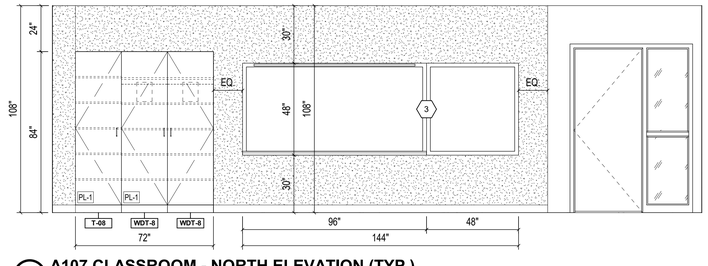

3 **A107 CLASSROOM - NORTH ELEVATION (TYP.)**
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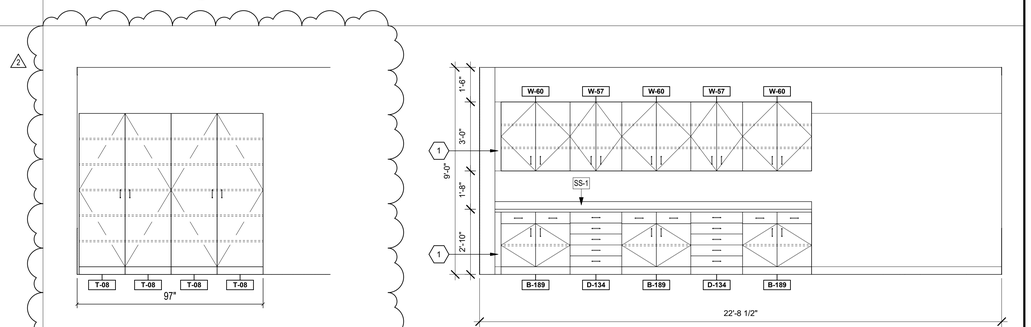
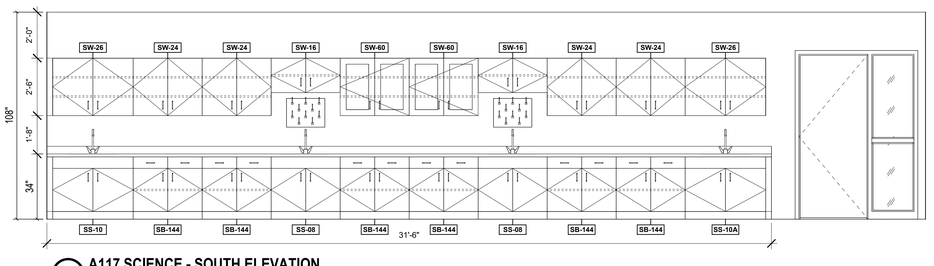


5 **A111 TEACHERS - EAST ELEVATION**
SCALE: 3/8" = 1'-0"

4 **A111 TEACHERS - WEST ELEVATION**
SCALE: 3/8" = 1'-0"



6 **A117 SCIENCE - SOUTH ELEVATION**
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. COMBINATION DISPLAY BOARD, SEE EQUIPMENT PLANS AND A-401 FOR DETAILS.

AWP-A	24"x24"	ABSORBATIVE
AWP-B	24"x48"x1"	ABSORBATIVE
AWP-C	24"x48"x2"	ABSORBATIVE
AWP-D	24"x48"x3"	ABSORBATIVE
AWP-E	24"x48" BARREL	REFELCTIVE

VERIFICATION NOTE

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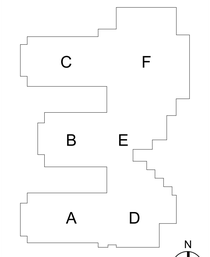

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11/25/2025

CASEWORK AND EQUIPMENT ELEVATIONS

IQ201

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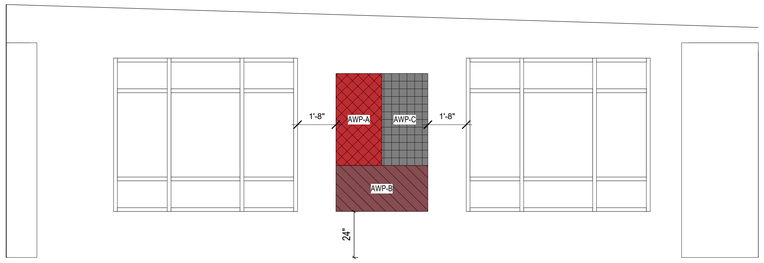
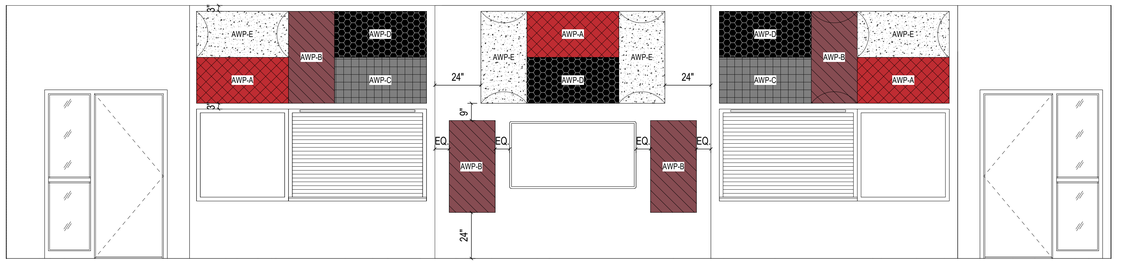


6 B211 ORCHESTRA - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



1 B208 BAND - NORTH ELEVATION
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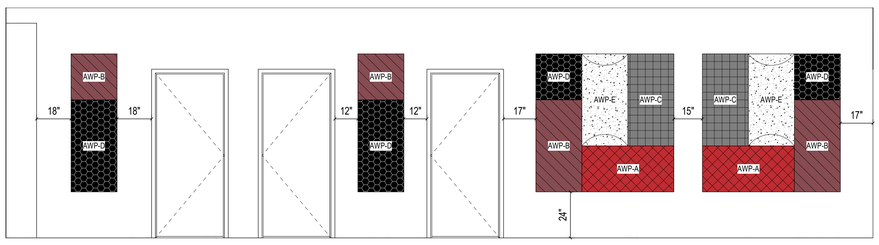

7 B211 ORCHESTRA - EAST ELEVATION
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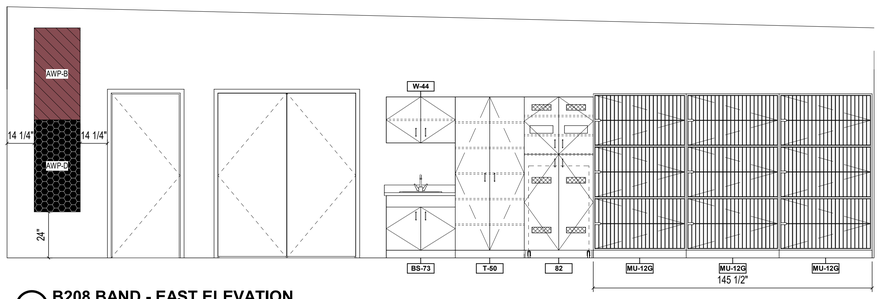

2 B208 BAND - EAST ELEVATION
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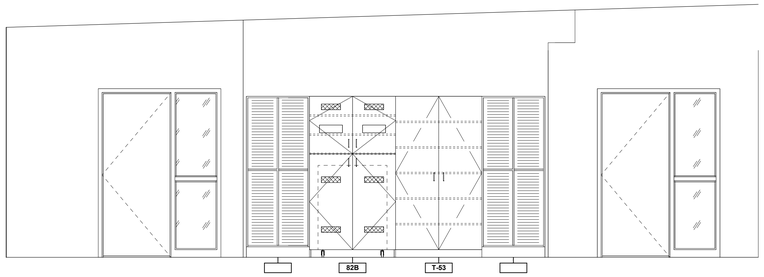
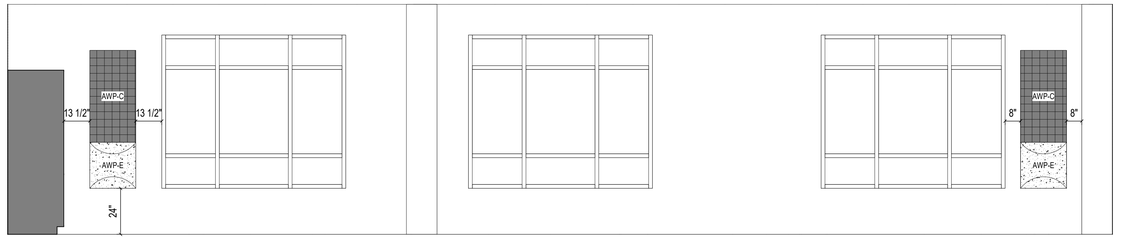


8 B211 ORCHESTRA - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



3 B208 BAND - SOUTH ELEVATION
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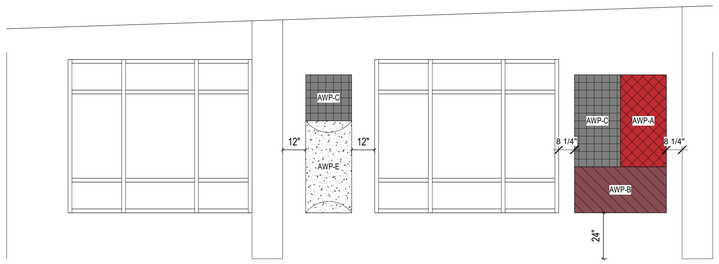
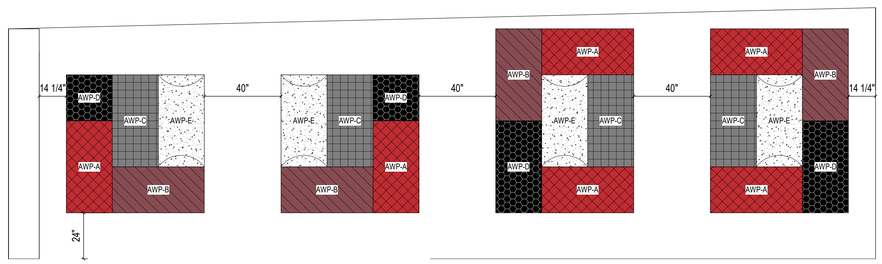


9 B217 VOCAL - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



4 B208 BAND - WEST ELEVATION
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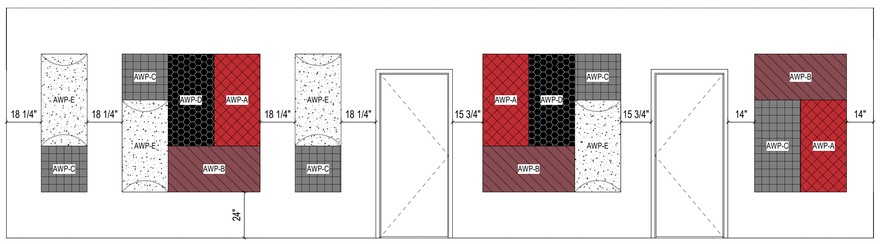

10 B217 VOCAL - WEST ELEVATION
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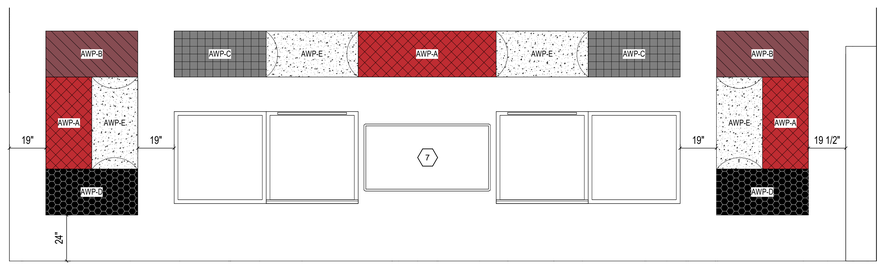

5 B211 ORCHESTRA - WEST ELEVATION
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION NOTES
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. COMBINATION DISPLAY BOARD, SEE EQUIPMENT PLANS AND A-401 FOR DETAILS.

AWP-A	24"x24"	ABSORBATIVE
AWP-B	24"x48"x1"	ABSORBATIVE
AWP-C	24"x48"x2"	ABSORBATIVE
AWP-D	24"x48"x3"	ABSORBATIVE
AWP-E	24"x48" BARREL	REFELCTIVE

VERIFICATION NOTE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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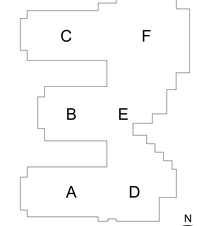

KEY PLAN

PAUL A. MILLER
REGISTERED
No. AR10800161
STATE OF
INDIANA
ARCHITECT

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11/25/2025

CASEWORK AND EQUIPMENT ELEVATIONS

IQ204

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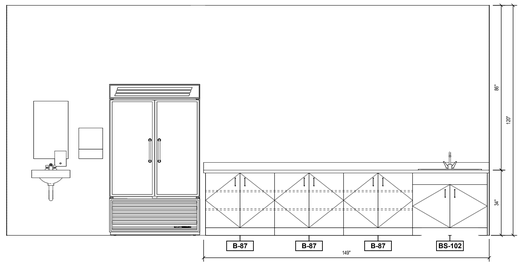
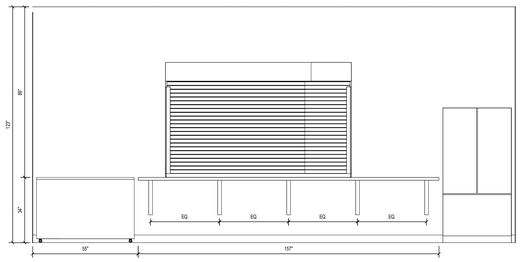
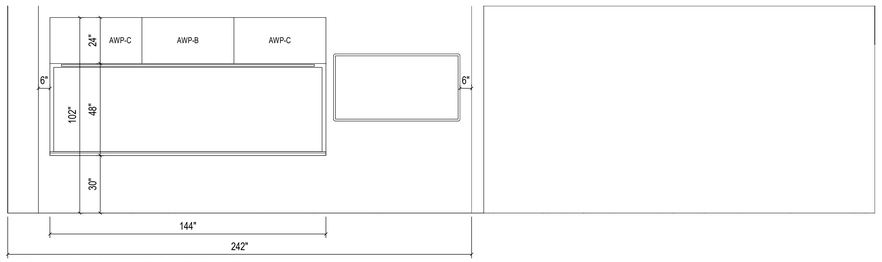


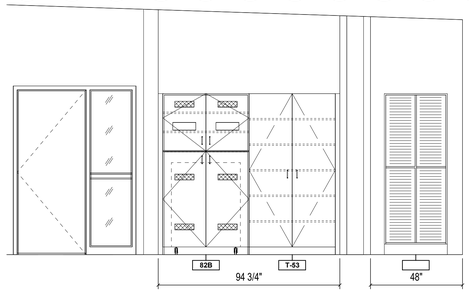
6 **G101 CONCESSIONS - NORTH ELEVATION**
SCALE: 3/8" = 1'-0"



7 **G101 CONCESSIONS - SOUTH ELEVATION**
SCALE: 3/8" = 1'-0"

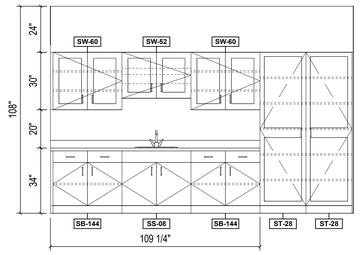


1 **B217 VOCAL - EAST ELEVATION**
SCALE: 3/8" = 1'-0"

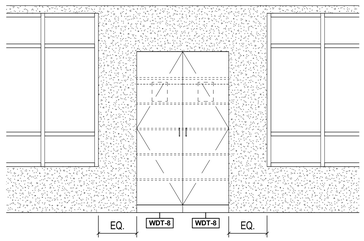


2 **B217 VOCAL - SOUTH ELEVATION**
SCALE: 3/8" = 1'-0"

3 **F203 MULTI-PURPOSE INSRUCTION - EAST ELEVATION**
SCALE: 3/8" = 1'-0"



4 **C204 PREP - NORTH ELEVATION**
SCALE: 3/8" = 1'-0"



5 **A115 CLASSROOM - NORTH ELEVATION**
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FILLER PANEL AS REQUIRED.
2. PLASTIC LAMINATE END PANEL.
3. COMBINATION DISPLAY BOARD, SEE EQUIPMENT PLANS AND A-401 FOR DETAILS.

AWP-A	24"x24"	ABSORBATIVE
AWP-B	24"x48"x1"	ABSORBATIVE
AWP-C	24"x48"x2"	ABSORBATIVE
AWP-D	24"x48"x3"	ABSORBATIVE
AWP-E	24"x48" BARREL	REFELCTIVE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

5910 Central Avenue
Portage, IN 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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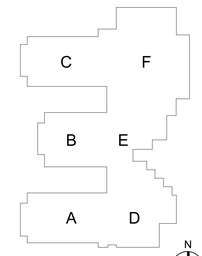

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

CASEWORK AND EQUIPMENT ELEVATIONS

IQ205

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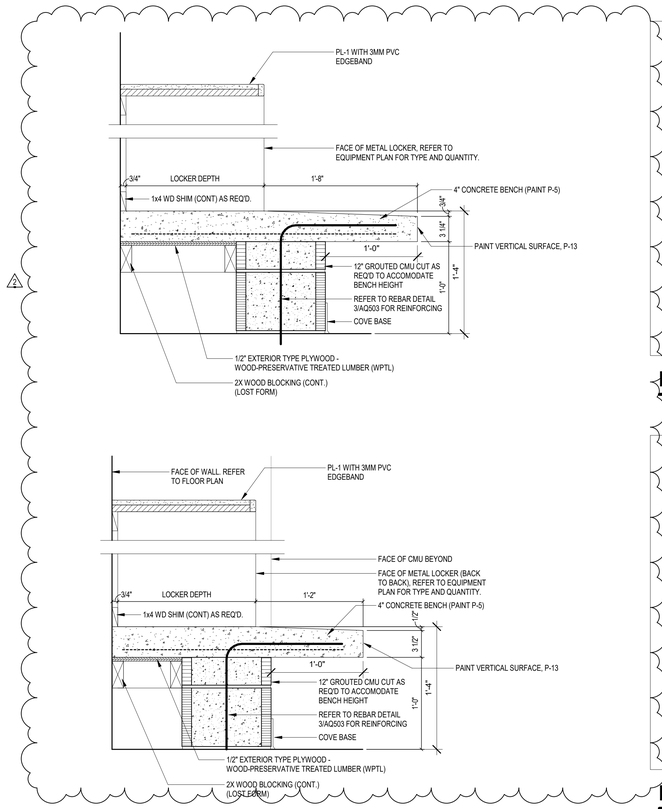
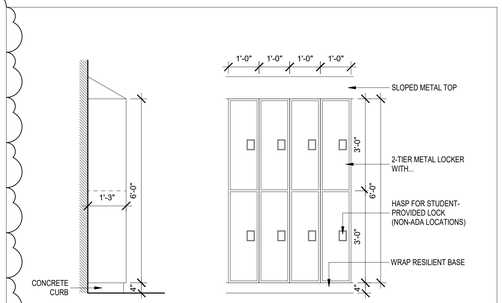
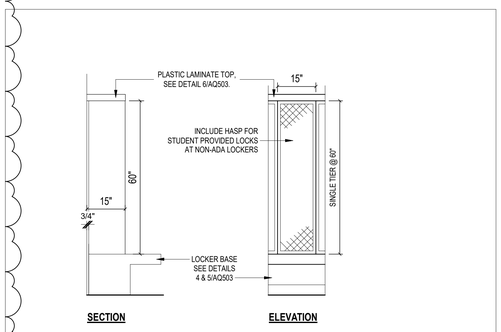
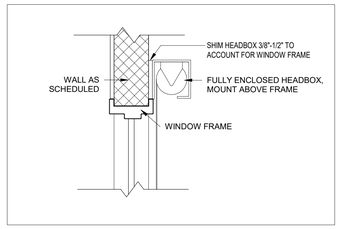


LOCKER DETAIL - TYPE A

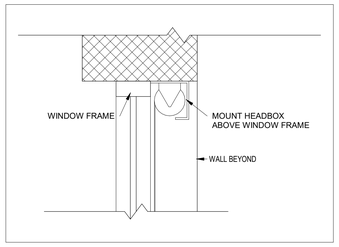


LOCKER DETAIL - TYPE B

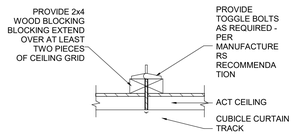




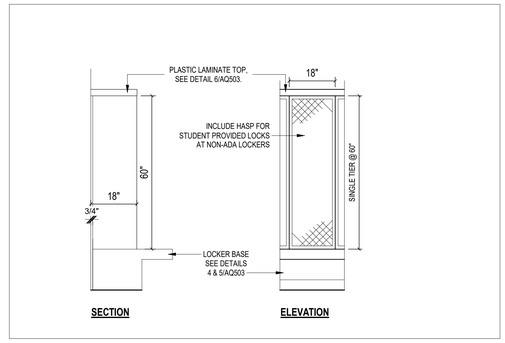
ERWS/RWS DETAIL - INTERIOR



RWS DETAIL - EXTERIOR



CUBICLE CURTAIN TRACK



LOCKER DETAIL - TYPE C

* NOT TO SCALE
* REFER TO EQUIPMENT PLANS AND CASEWORK ELEVATIONS FOR LOCATIONS

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ARCHITECT

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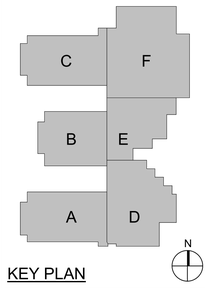

KEY PLAN

PROJECT MANAGER: MKS

DRAWN BY: BNVL

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11/25/2025

EQUIPMENT DETAILS

IQ503

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CASEWORK SCHEDULE

TYP E	NO.	SIZE W	D	H	DESCRIPTION
	02G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	15 COMPARTMENT (CLARINET/FLUTE/PICCOLO/OBOE/SOPRANO SAXOPHONE/TRUMPET) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	03G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	10 COMPARTMENT (9 - CLARINET/FLUTE/PICCOLO/OBOE/SOPRANO SAXOPHONE/TRUMPET, 1 - FRENCH HORN/ALTO HORN/SNARE DRUM) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	04G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	10 COMPARTMENT (TRUMPET/CORONET/ALTO SAXOPHONE) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	06G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	7 COMPARTMENT (6 - TRUMPET/CORONET/ALTO SAXOPHONE, 1 - FRENCH HORN/ALTO HORN/SNARE DRUM) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	10G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	3 COMPARTMENT (FRENCH HORN/ALTO HORN/SNARE DRUM/MELLOPHONE) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	19G	2'-3 1/2"	3'-3 1/4"	7'-1 5/8"	6 COMPARTMENT (GUITAR) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	33	2'-3"	2'-0"	7'-0"	SCIENCE TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED GLASS FRAMED DOORS.
	36	3'-0"	2'-0"	7'-0"	TALL DAMP STORAGE UNIT WITH FIVE ADJUSTABLE, PERFORATED SHELVES, A DRIP PAN, FULL GALVANIZED LINING, AND TWO FULL HEIGHT DOORS WITH FULL PERIMETER GASKETS.
	44G	2'-3 1/2"	2'-5 1/4"	7'-1 5/8"	2 COMPARTMENT (BASS DRUM/FIELD DRUM/SNARE DRUM/PARADE DRUM) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
	82	3'-0"	2'-0"	7'-0"	TALL SPLIT DOOR STORAGE WITH ONE FIXED SHELF. AT THE UPPER CABINET, PROVIDE THREE ADJUSTABLE SHELVES AND TWO HINGED DOORS. AT THE LOWER CABINET, PROVIDE ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
	82B	3'-9"	2'-0"	7'-0"	TALL SPLIT DOOR STORAGE WITH ONE FIXED SHELF. AT THE UPPER CABINET, PROVIDE THREE ADJUSTABLE SHELVES AND TWO HINGED DOORS. AT THE LOWER CABINET, PROVIDE ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	33	1'-3"	2'-0"	2'-6"	BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	40	1'-6"	2'-0"	2'-10"	BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	67	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	71	2'-6"	2'-6"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	83	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	87	3'-0"	2'-6"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	176	2'-6"	2'-0"	2'-6"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	177	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	186	2'-9"	2'-6"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	189	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	192	3'-0"	2'-6"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	282	3'-0"	1'-6"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	282A	2'-0"	1'-6"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
BO	32	2'-6"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	70	2'-3"	2'-0"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	71	2'-6"	2'-0"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	94	2'-6"	2'-0"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	85	2'-9"	2'-0"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BS	43	2'-6"	2'-6"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS.
BS	73	3'-0"	2'-0"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	102	3'-3"	2'-6"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	174	3'-0"	2'-0"	2'-10"	ADA SINK BASE UNIT WITH TWO POCKET DOORS AND ONE BLANK DRAWER PANEL.
D	131	1'-6"	2'-0"	2'-10"	DRAWER UNIT WITH FIVE EQUAL DRAWERS. 2-3/4 INCHES DEEP INSIDE.
D	132	1'-9"	2'-0"	2'-10"	DRAWER UNIT WITH FIVE EQUAL DRAWERS. 2-3/4 INCHES DEEP INSIDE.
D	134	2'-3"	2'-0"	2'-10"	DRAWER UNIT WITH FIVE EQUAL DRAWERS. 2-3/4 INCHES DEEP INSIDE.
D	135	2'-6"	2'-0"	2'-10"	DRAWER UNIT WITH FIVE EQUAL DRAWERS. 2-3/4 INCHES DEEP INSIDE.
DF	1	1'-4"	1'-6"	2'-6"	FILE DRAWER UNIT WITH FOLLOWERS, TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.
DF	2	1'-4"	2'-0"	2'-6"	FILE DRAWER UNIT WITH FOLLOWERS, TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.
FX	20	2'-0"	1'-2"	4'-0"	
SB	017	1'-3"	2'-0"	2'-10"	SCIENCE BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
SB	018	1'-6"	2'-0"	2'-10"	SCIENCE BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
SB	019	1'-9"	2'-0"	2'-10"	SCIENCE BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
SB	144	3'-0"	2'-0"	2'-10"	SCIENCE BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
SS	08	3'-0"	2'-0"	2'-10"	SCIENCE SINK BASE UNIT WITH TWO HINGED DOORS, AND ONE BLANK DRAWER PANEL.
SS	10	3'-6"	2'-0"	2'-10"	SCIENCE AND PREP ROOM SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL. PROVIDE EPOXY SINK, (DURCON: SNKU-56 28"Lx15"Wx12"D), NEW SINK OUTLET (SO-3R), TAILPIECE, SINK STOP AND OVERFLOW. PROVIDE NEW DECK MOUNTED MANUAL-CLOSING FAUCET WITH INTEGRAL VACUUM (930-3175AM). AT PREP ROOM, PROVIDE DECK MOUNTED EYE WASH (8407-NF). NOTE: SINK FIXTURE MODELS ARE BASED ON CHICAGO FAUCETS.
SS	10A	3'-6"	2'-0"	2'-10"	ADA SCIENCE SINK BASE UNIT WITH TWO POCKET DOORS AND ONE BLANK DRAWER PANEL. SEE IQ501. PROVIDE EPOXY SINK, (DURCON: SNKU-56 28"Lx15"Wx5"D), NEW SINK OUTLET (SO-3R), TAILPIECE, SINK STOP AND OVERFLOW. PROVIDE NEW DECK MOUNTED MANUAL-CLOSING FAUCET WITH INTEGRAL VACUUM (930-3175AM). NOTE: SINK FIXTURE MODELS ARE BASED ON CHICAGO FAUCETS.
SS	15	3'-6"	2'-0"	3'-0"	SCIENCE SINK BASE UNIT WITH TWO HINGED DOORS, AND ONE BLANK DRAWER PANEL.
ST	28	2'-0"	2'-0"	7'-0"	SCIENCE TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED FRAMED GLASS DOOR.
ST	28A	2'-3"	1'-6"	7'-0"	SCIENCE TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED FRAMED GLASS DOOR.
SW		1'-6"	4"		
SW	16	3'-0"	1'-2"	1'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
SW	24	3'-0"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
SW	26	3'-6"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
SW	41	1'-3"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED GLASS FRAMED DOOR.
SW	42	1'-6"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED GLASS FRAMED DOOR.
SW	43	1'-9"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED GLASS FRAMED DOOR.
SW	52	3'-0"	1'-2"	2'-0"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED GLASS FRAMED DOORS
SW	60	3'-0"	1'-2"	2'-6"	SCIENCE WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED GLASS FRAMED DOORS.
T	08	2'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED DOOR.
T	12	3'-0"	2'-0"	7'-0"	TALL DRY STORAGE UNIT WITH FIVE ADJUSTABLE, PERFORATED SHELVES, A DRIP PAN AND TWO HINGED DOORS WITH LOUVERS.
T	50	3'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
T	53	3'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
T	54	4'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
TO	07	2'-9"	1'-2"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES.
TO	17	3'-0"	2'-0"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES.
W	14	1'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	16	2'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	44	3'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	51	2'-9"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	52	3'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	54	3'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	57	2'-3"	1'-2"	3'-0"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	58	2'-6"	1'-2"	3'-0"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
W	60	3'-0"	1'-2"	3'-0"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
WC	4	1'-2"	2'-0"	2'-6"	WALL CORNER UNIT WITH DIAGONAL FACE, ONE ADJUSTABLE SHELF, AND ONE HINGED DOOR.
WDT	8	2'-0"	2'-0"	7'-0"	
WO	52	2'-0"	1'-2"	3'-0"	OPEN WALL UNIT WITH TWO ADJUSTABLE SHELVES.
WO	54	2'-6"	1'-2"	3'-0"	OPEN WALL UNIT WITH TWO ADJUSTABLE SHELVES.
WO	55	2'-9"	1'-2"	3'-0"	OPEN WALL UNIT WITH TWO ADJUSTABLE SHELVES.
WS	1	4'-0"	1'-0"	2'-10"	

PE EQUIPMENT SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION
PE-1	**SIDE-FOLDING BASKETBALL GOAL** • SIDE FOLDING, SIDE BRACED BASKETBALL BACKSTOP UNIT. • INCLUDE ALL NECESSARY FITTINGS, PIPE BEAMS, ELECTRIC WINCH, CABLES, PULLEY, MOUNTING HARDWARE & CONTROLLER AS REQUIRED FOR COMPLETE INSTALLATION. • HEIGHT AS REQUIRED TO ACCOMMODATE STRUCTURE. • INCLUDE "SAF-STRAP" BASKETBALL BACKSTRAP SAFETY LOCK. • 72"W x 42"H RECTANGULAR GLASS BACKBOARD WITH FRAME; ONE SAFETY BOLT ON CUSHION EDGE/PAD; ONE FRONT MOUNT, POWR-FLEX GOAL, AND ONE NYLON ANTI-WHIP NET. • BACKBOARD SHALL BE EQUIPPED WITH HEIGHT ADJUSTMENT FROM 8' TO 10' WITH DIRECT GOAL ATTACHMENT & HEIGHT LOCK FEATURE. • REFER TO EQUIPMENT PLAN FOR DIRECTION OF FOLD. • BASIS OF DESIGN: PORTER 90950000, 713, 797, 00208-000, 00328XXX, 00233-000, 00900211	1 HP – 115V KEY SWITCH
PE-2	**GYMNASIUM DIVIDER CURTAIN** • 84' LONG FOLD-UP GYM DIVIDER CURTAIN WITH LOWER SECTION OF 8' HIGH SOLID VINYL WITH MESH ABOVE. • INCLUDE ALL NECESSARY FITTINGS, PIPE BEAMS, ELECTRIC HOIST OPERATION, CABLES, PULLEY, MOUNTING HARDWARE & CONTROLLER FOR COMPLETE INSTALLATION. • INCLUDE LINE SHAFT SAFETY LOCK. • BASIS OF DESIGN: PORTER 90670000, 910060XX, 10796-00 • COLOR: STANDARD, TBD	3/4 HP – 115V 60 Hz, SINGLE PHASE KEY SWITCH
PE-3	**VOLLEYBALL EQUIPMENT TRANSPORTER** • VOLLEYBALL STANDARDS & JUDGE'S STAND TRANSPORTER • BASIS OF DESIGN: PORTER 00956-100 • DIMENSIONS: 30" W x 48" L	
PE-4	**WALL PADDING** • 2" W x 6' H x 2" D WAINSCOT PADDING w/ BONDED FOAM FILLER • WALL ATTACHMENT Z-CLIP ALUMINUM CHANNELS • PROVIDE MOLDED UNITS AS REQUIRED TO ACCOMMODATE ELECTRICAL DEVICES. • BASIS OF DESIGN: PORTER 4120 • COLOR: STANDARD, TBD	
PE-5	**VOLLEYBALL FLOOR SLEEVE** • INDOOR VOLLEYBALL/TENNIS FLOOR SLEEVE FOR GAME POST WITH CHROME-PLATED REMOVABLE COVER PLATE. • FLOOR SLEEVE TO BE LOCATED 3'4" FROM COURT LINE, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. • BASIS OF DESIGN: PORTER 00870-200 • DIMENSIONS: 3.75" OD, 3.5" ID AND 5" DIA.	
PE-6	**VOLLEYBALL STANDARDS (SET OF 2)** • INDOOR ALUMINUM VOLLEYBALL PORTABLE STANDARDS WITH 3.5" OD. • POST SHALL BE EQUIPPED WITH SLIDING COLLAR WITH GUIDE PIN WITH INSTANT SETTING FOR TENNIS, VOLLEYBALL AND BADMINTON. • BASIS OF DESIGN: PORTER 1975 "POWR-RIB II" • COLOR: STANDARD, TBD	
PE-7	**VOLLEYBALL STANDARDS - PADDING (SET OF 2)** • PAIR OF PROTECTIVE PADS FOR UPRIGHTS • BASIS OF DESIGN: PORTER 00717-XXX • COLOR: STANDARD, TBD	
PE-8	**VOLLEYBALL NET** • UNIVERSAL VOLLEYBALL NET WITH ONE SET OF VOLLEYBALL BOUNDARY MARKERS. • BASIS OF DESIGN: PORTER 02295-630, 00546-000	
PE-9	**VOLLEYBALL JUDGE'S STAND** • JUDGE'S STAND WITH ATTACHMENT & PROTECTIVE PADS. • BASIS OF DESIGN: PORTER 0889-100, 00993-1XX	
PE-10	**WRESTLING MAT HOIST** • CEILING-MOUNTED MAT MOVER FOR TWO (2) WERSTLING MATS. • INCLUDE ALL NECESSARY FITTINGS, PIPE BEAMS, ELECTRIC HOIST OPERATION, CABLES, PULLEY, MOUNTING HARDWARE AND CONTROLLER FOR COMPLETE INSTALLATION. • BASIS OF DESIGN: REFER TO SPECIFICATIONS	

MEDIA CENTER CASEWORK

TYP E	NO.	SIZE W	D	H	DESCRIPTION
MC	2	2'-3 1/4"	1'-3 1/4"	6'-0"	MEDIA CENTER SHELVING WITH FIVE ADJUSTABLE SHELVES.
MC	3	3'-1 1/4"	1'-3 1/4"	6'-0"	MEDIA CENTER SHELVING WITH FIVE ADJUSTABLE SHELVES.
MCB	39	3'-1 1/4"	2'-4 1/4"	3'-6"	MOBILE MEDIA CENTER BOOKSHELF.

MUSIC CASEWORK SCHEDULE

TYP E	NO.	SIZE W	D	H	DESCRIPTION
MU	05G	2'-3 1/2"	3'-3 1/4"	7'-1 5/8"	10 COMPARTMENT (TROMBONE/BASSOON/VIOLIN/BASS CLARINET/ALTO CLARINET/TENOR SAXOPHONE) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
MU	07G	2'-3 1/2"	3'-3 1/4"	7'-1 5/8"	7 COMPARTMENT (6 - TROMBONE/BASSOON/VIOLIN/BASS CLARINET/ALTO CLARINET/TENOR SAXOPHONE, 1 - BARITONE HORN/EUPHONIUM/MELLOPHONE) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
MU	11G	2'-3 1/2"	3'-3 1/4"	7'-1 5/8"	3 COMPARTMENT (BARITONE HORN/EUPHONIUM/MELLOPHONE) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.
MU	12G	4'-0 1/2"	2'-5 1/4"	7'-1 5/8"	3 COMPARTMENT (BARITONE SAXOPHONE/BASS CLARINET/FIELD DRUM/SNARE DRUM) CABINET WITH STRAIGHT GRILLE DOOR AND SOLID PLASTIC LAMINATE TOP.

RESIDENTIAL EQUIPMENT SCHEDULE - BY OWNER

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION	PLUMB. FIELD CONNECTION
A-1	**REFRIGERATOR** • 21.3 CU.FT. • REVERSIBLE HINGES • ENERGY STAR QUALIFIED • BASIS OF DESIGN: WHIRLPOOL WRT541SZDZ • DIMENSIONS: 68.25"H x 32.75"W x 34"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • QUANTITY: TBD	120V / 60Hz / 15AMPS		X
A-2	**UNDERCOUNTER REFRIGERATOR** • BASIS OF DESIGN: • DIMENSIONS:			
A-3	**ICE MACHINE** • H2 NUGGET ICE WITH 85% HARDNESS RATING • PRODUCES 456 LB PER 24 HOURS • AIR-COOLED CONDENSER UNIT • BASIS OF DESIGN: SCOTSMAN N0422 PRODIGY PLUS NUGGET ICE MACHINE WITH SCOTSMAN B22S STORAGE BIN • DIMENSIONS: 22"W X 34"D X 22"H • STORAGE BIN: 22"W X 34"D X 44"H • CAPACITY: 370LB • COLOR: STAINLESS STEEL	120V / 60Hz / 15AMPS		X
A-4	**MICROWAVE** • 2.0 CU.FT. 1200W UNIT WITH EXTRA-LARGE TURNTABLE • ELECTRONIC DIGITAL DISPLAY WITH CLOCK • ENERGY STAR QUALIFIED • BASIS OF DESIGN: GE GCST20S1WSS • DIMENSIONS: 23.875"W x 13.625"H X 19.25"D • COLOR: STAINLESS STEEL • QUANTITY: TBD	120V / 60Hz		
A-5	**PRINTER** • BASIS OF DESIGN: • DIMENSIONS:			

STAGE EQUIPMENT SCHEDULE

ITEM NO.	ITEM DESCRIPTION
S-1	**VALANCE** • VALANCE (FIXED), 3" DISTANCE FROM STAGE OPENING.
S-2	**FRONT CURTAIN** • FRONT CURTAIN (TRAVELER), 1'-3" DISTANCE FROM STAGE OPENING. • (2) CURTAINS, STANDARD CENTER OVERALP.
S-3	**CURTAIN BORDER** • BORDER CURTAIN (FIXED), VARIES IN DISTANCE FROM STAGE OPENING. • (1) CURTAIN, FINISHED BOTH SIDES
S-4	**REAR CURTAIN** • REAR CURTAIN (FIXED) • (1) CURTAIN
S-5	**SIDE CURTAIN** • SIDE CURTAIN (TRAVELER) • (4) CURTAINS

FOOD SERVICE EQUIPMENT

ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY
FS-1	2	BEVERAGE COOLERS	BY VENDOR	BY VENDOR	OWNER	OWNER
FS-8	1	ICE CREAM MERCHANDISER	BY VENDOR	BY VENDOR	OWNER	OWNER

EQUIPMENT MATERIAL & FINISH GENERAL NOTES

A. COLOR SELECTION OF ALL FINISHES FOR ARCHITECTURAL WOODWORK / CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS AND DETAIL DRAWINGS.
B. EDUCATION CASEWORK FINISHES ARE AS FOLLOWS:
1. SOLID SURFACE COUNTERTOPS AND WORKSURFACES ARE TO BE SSM-1, UNLESS OTHERWISE NOTED.
2. HIGH PRESSURE PLASTIC LAMINATE CABINETS / VERTICAL SURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED.
3. INTERIOR MELAMINE TO BE WHITE
4. 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-1.
5. HANDLES TO BE BRUSHED CHROME..
6. HINGES TO BE BRUSH CHROME.
7. GROMMETS TO BE SELECTED.
8. TECHNOLOGY CABINET VENTS TO BE SELECTED.
C. SCIENCE CASEWORK TO BE HIGH PRESSURE PLASTIC LAMINATE (PL-1), WITH BLACK EPOXY TOPS, BACKSPLASHES AND INTEGRAL SINKS.
D. MUSIC CASEWORK TO BE HIGH PRESSURE PLASTIC LAMINATE (PL-1), WITH EPOXY COATED SILVER METALLIC GRILLES AND CORRESPONDING HARDWARE.
E. THE SAFETY WALL PADDING IN THE GYMNASIUM TO BE MANUFACTURER'S STANDARD COLORS (SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD AND DESIGNER VINYL COLOR SAMPLES FOR SELECTION & APPROVAL). REFER TO INTERIOR ELEVATIONS FOR DESIGN AND WALL PADDING GRAPHICS.
F. ALL SAFETY PADDING ON BASKETBALL GOALS AND VOLLEYBALL STANDARDS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD AND DESIGNER VINYL COLOR SELECTIONS.
G. GYMNASIUM DIVIDER CURTAIN TO BE SELECTED WITH THE TOP MESH ALSO TO BE SELECTED. SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD AND DESIGNER COLORS FOR SELECTION & APPROVAL.
H. MEDIA CENTER CASEWORK TO BE WOOD STAINED TO MATCH DOORS.

LIST OF FINISHES

EQUIPMENT MATERIALS

CUBICLE CURTAIN

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
CC-1	REFER TO SPECIFICATIONS	TO BE SELECTED

HP PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
PL-1	WILSONART	WALNUT PB COGNAC 8279K-05
PL-2	WILSONART	DESIGNER WHITE D354-60
PL-3	WILSONART	HOLLYBERRY D307-60
PL-4	WILSONART	LUNA NIGHT 1854K-35

KICKPLATES

STAINLESS STEEL

LOCKERS

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
LKRS	REPUBLIC / LIST INDUSTRIES / DEBOURGH	TO BE SELECTED

MARKERBOARDS

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
MB-1	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD - WHITE

PLASTIC TOILET PARTITIONS / COMPARTMENTS

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
TPP-1	WILSONART	BLACKBIRD 5024K-38

ROLLER WINDOW SHADES

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
RSW-1 (EXTERIOR) RSW-2 (INTERIOR)	REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD - TO BE SELECTED MANUFACTURER'S STANDARD - TO BE SELECTED

SHOWER CURTAINS

WHITE

SOLID SURFACE MATERIAL

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
SSM-1	WILSONART	MOON GEYSER 9209CM

STAGE CURTAIN

HEAVYWEIGHT VELOUR

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
SC-1	KM FABRICS JB MARTIN LTD. / VALLEY FORGE FABRICS	TO BE SELECTED MATCH KM FABRIC

TACKABLE WALL SURFACE

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
TWS-1	CARNEGIE / XOREL / METEOR	TO BE SELECTED

TACKBOARD

MATERIAL ABBREVIATION	MATERIAL / MANUFACTURER	COLOR SELECTION
TB-1	CARNEGIE / XOREL / METEOR	TO BE SELECTED

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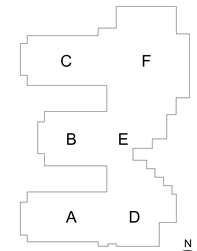

KEY PLAN

PROJECT MANAGER: MKS
DRAWN BY: BNVL
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #3	11/18/2025
2	Addendum #4	11/25/2025

EQUIPMENT SCHEDULES

IQ601

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FOOD SERVICE EQUIPMENT SCHEDULE - 1

Mark	Qty	Description	Manufacturer	Model
1	1	Walk-In Cooler and Freezer	Kolpak	Custom
1.1	1	Cooler Evaporator	Kolpak - RDI	AM26-073-1EC-PR-8
1.2	1	Freezer Evaporator	Kolpak - RDI	EL46-182-2EC-PR-8
1.3	1	Cooler Condensing Unit	Kolpak - RDI	KPC68MZOP-3E
1.4	1	Freezer Condensing Unit	Kolpak - RDI	KPC598LZOP-3E
2	18	Shelf Unit, Mobile	InterMetro	SE Pro
3	20	<varies>	InterMetro	<varies>
4	4	Dunnage Rack, Mobile	InterMetro	MHP55K3
5	2	Dunnage Rack, Fixed	InterMetro	HP2248PDMB
6	4	Utility Cart, Mobile	Intermetro	MW-106
7	1	Drying Rack, Mobile	InterMetro	PR48VX3
8	4	Sheet Pan Rack, Mobile	CresCor	200-1841A
9	2	Can Rack, Mobile	New Age Industries	1250CK
10	1	Spare Number		
11	1	Food Slicer	Hobart	Existing
12	1	Food Processor	Hobart	FP250-1
13	1	Rack Conveyor Dishwasher	Hobart	CLPS86e
13.1	1	Drain Water Tempering Device	Hobart	DWeR
14	1	Spare Number		
15	1	Spare Number		
16	1	Spare Number		
17	2	Can Opener, Electric	Edlund	270
18	1	Hot Water Dispenser	Hatco Corporation	AIWD-12
19	1	Ice Maker, Undercounter	Manitowoc Ice	UYF0190A
20	1	Spare Number		
21	2	Convection Oven	Southbend	GS/25SC
22	1	Six Burner Range	Southbend	P36D-BBB
23	1	Tilting Braising Pan	Cleveland	SGL-40-T1
24	1	Convection Steamer	Cleveland	24-CGA-10.2ES
25	2	Combi Oven-Steamer	Convotherm	Maxx Pro ET 6.20 ES DD
26	1	Tilting Kettle	Cleveland	KGL-40-TSH
27	1	Dishwasher Ventilation System	Master Air	DWR
28	1	Ventilation Hood	Master Air	EH
28.1	1	Exhaust Fan	Greenheck	CUBE 300
28.2	1	Supply Fan	Master Air	MA-15
28.3	1	Make-Up Air Furnace	Master Air	DFNP-15
29	1	Fire Suppression System	Ansul	R-102
30	1	Spare Number		

FOOD SERVICE EQUIPMENT SCHEDULE - 2

Mark	Qty	Description	Manufacturer	Model
31	1	Vegetable Prep Table	Conover Custom Stainless	
32	1	Mobile Slicer Table	Conover Custom Stainless	
33	1	Island Prep Table	Conover Custom Stainless	
34	1	Island Work Table	Conover Custom Stainless	
35	1	Pot and Pan Rack, Mobile	InterMetro	SE Adustable Stainless Steel
36	1	Soiled Dishtable w/ Sinks	Conover Custom Stainless	
37	1	Clean Dishtable	Conover Custom Stainless	
38	2	Floor Trough	Conover Custom Stainless	
39	1	Utility Cabinet	Conover Custom Stainless	UCS
40	1	Spare Number		
41	2	Hot/Cold/Freeze Food Table	LTI Specline	SL-84-QSCHP-5-L
42	1	Hot/Cold/Freeze Food Table	LTI Specline	SL-50-QSCHP-3-L
43	1	Hot/Cold/Freeze Food Table	LTI Specline	SL-74-QSCHP-4-L
44	1	Hot/Cold/Freeze Food Table	LTI Specline	SL-74-QSCHP-4-L
45	2	Cashier Counter, Mobile	LTI Specline	SPC-CSE-LP-60
46	2	Rack Dispenser	LTI Specline	CPM-NST-2-1418
47	1	Spare Number		
48	1	Spare Number		
49	1	Reach-In Display Refrigerator	True Foodservice	GDM-26-HST-HC-TSL01
50	1	Spare Number		
51	4	Open Air Merchandiser	True Foodservice	TOAM-48-HC~TSL01
52	2	Pass-Thru Heated Cabinet, Mobile	True Foodservice	STR2HPT-4HG-4HS
53	2	Pass-Thru Refrigerator, Mobile	True Foodservice	STA1RPT-1G-1G-HC
54	1	Disposer	InSinkErator	SS-300
55	1	Disposer	InSinkErator	SS-200
56	1	Disposer	InSinkErator	SS-200
57	1	Tray Dryer	San Aire	PD-100M
58	1	Spare Number		
59	1	Enclosed Stainless Steel Hose Reel	T&S Brass	B-7122C01WS3C
60	1	Spare Number		
61	5	Hand Sink	By Division 22	
62	1	Mop Sink	By Division 22	
63	11	Locker	By Division 10	
64	1	Detergent Injector System	By Soap Vendor	
65	2	POS System	By Owner	
66	1	Spare Number		
67	1	Spare Number		
68	1	Spare Number		

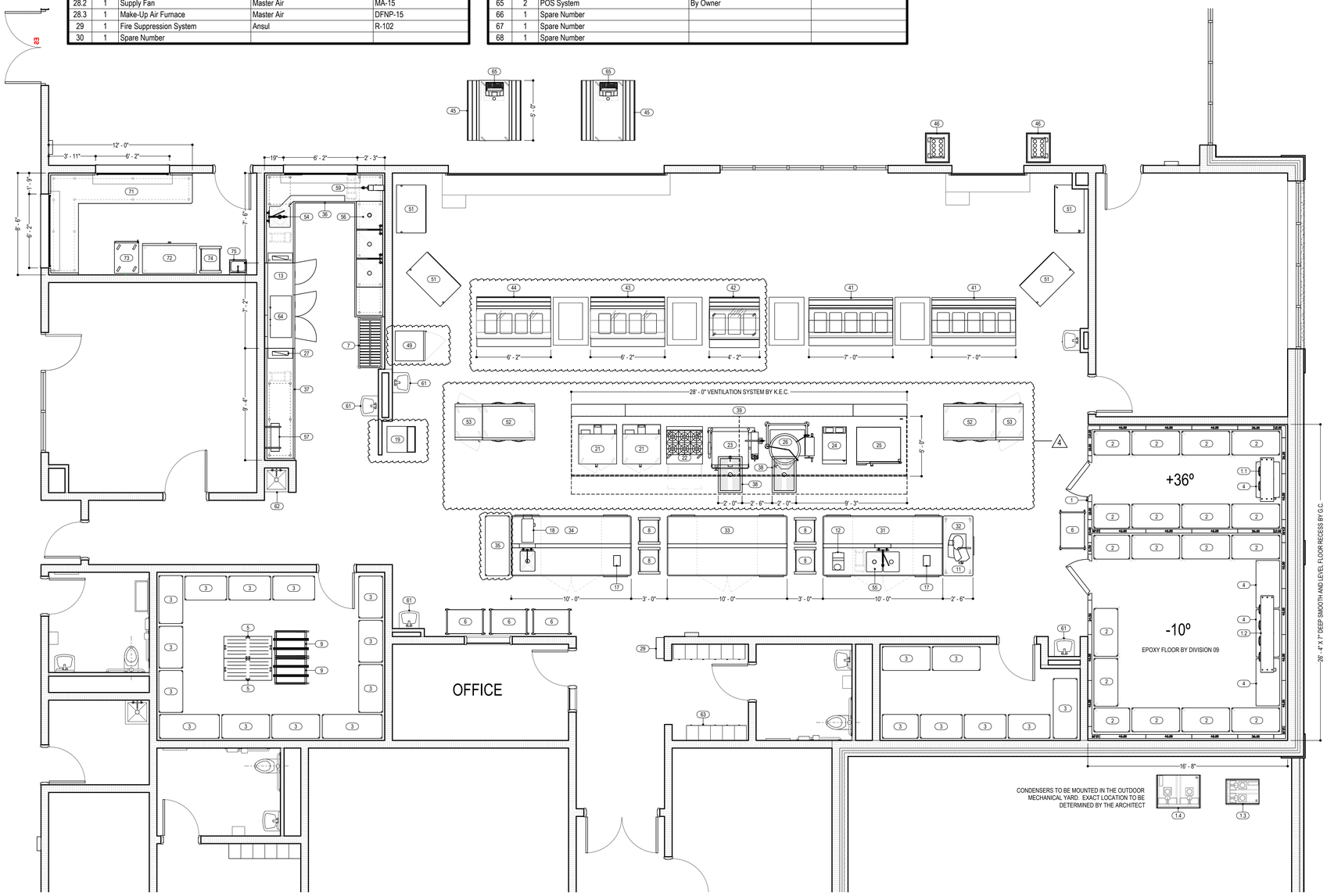
FOOD SERVICE EQUIPMENT SCHEDULE - 3

Mark	Qty	Description	Manufacturer	Model
69	1	Spare Number		
70	1	Spare Number		
71	1	Serving Counter	Conover Custom Stainless	
72	1	Glass Door Merchandiser	True Foodservice	GDM-49-HC~TSL01
73	1	Warming Cabinet	CresCor	131-UA-11D
74	1	Sheet Pan Rack, Mobile	CresCor	200-1841A
75	1	Hand Sink	Advance Tabco	7-PS-90

GENERAL NOTES

- EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN STRICT CONFORMANCE WITH ALL STATE AND/OR LOCAL CODES.
- ASSIST THE VARIOUS TRADES IN THE PROPER INSTALLATION OF COMPONENTS WHICH ARE FURNISHED WITH THE EQUIPMENT. PROVIDE PIPING DIAGRAMS AND INSTALLATION INSTRUCTIONS WHERE APPLICABLE.
- DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO START OF FABRICATION.
- EQUIPMENT WHICH IS NOT MOBILE (ON CASTERS) AND WHERE IT ABUTTS OTHER FIXED EQUIPMENT, BUILDING WALLS, FLOOR OR CEILING SHALL BE SEALED AND/OR TRIMMED OUT WITH SILICONE AND/OR SS MATCHING TRIM. GAPS EXCEEDING 3/8" IN WIDTH MUST BE TRIMMED OUT WITH STAINLESS STEEL OR MATCHING TRIM.
- SLOPE FINISHED FLOOR ONLY SLIGHTLY TO FLOOR DRAINS UNLESS SPECIFICALLY STATED OTHERWISE ON THE DRAWINGS.
- REFER TO THE DRAWINGS, SPECIFICATIONS AND THE ELECTRICAL - MECHANICAL DATA NOTES FOR ADDITIONAL RESPONSIBILITIES.

(34) ITEM NUMBER (3 / FS1.01) DETAIL NUMBER



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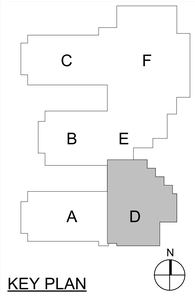

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE EQUIPMENT PLAN

FS1.01

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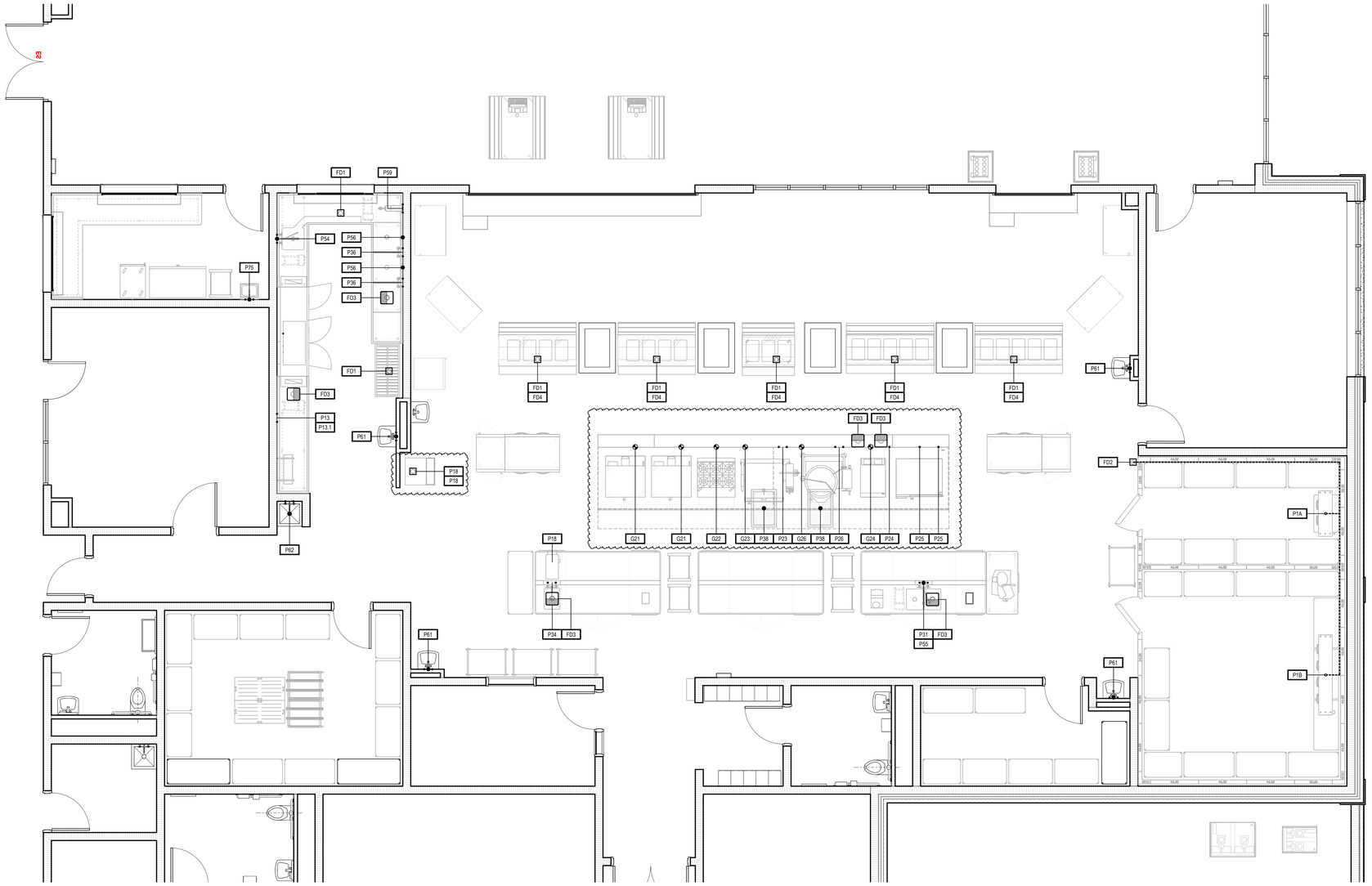

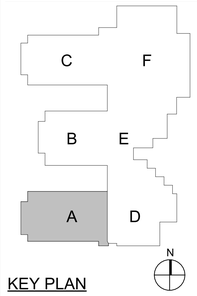

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE PLUMBING PLAN

FS2.01

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WORK BY DIVISION 22

- THE FOOD SERVICE EQUIPMENT MECHANICAL DRAWINGS AND EQUIPMENT DATA INFORMATION ARE PREPARED FOR THE CONVENIENCE OF BIDDING AND ARE NOT INTENDED AS ROUGH-IN DRAWINGS TO BE USED ON THE PROJECT SITE. CONTRACTORS SHALL REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S ROUGH-IN DRAWINGS FOR ACCURATE LOAD REQUIREMENTS AND LOCATION OF UTILITIES.
- THE MECHANICAL SCHEDULE INFORMATION IS BASED ON THE PRIME SPEC EQUIPMENT SHOWN IN THE SPECIFICATIONS. IN THE EVENT THE K.E.C. PROPOSES TO FURNISH AN EQUAL TO THE PRIME SPEC EQUIPMENT, THE K.E.C. SHALL BE RESPONSIBLE FOR ANY UPCHARGES ACCRUED AS A RESULT OF PIPING OR MECHANICAL CHANGES NECESSARY FOR THE EQUIPMENT BEING PROVIDED.
- ROUGH-IN UTILITY LINES THRU WALLS, FLOOR AND CEILING AS SHOWN ON THE DRAWINGS. RUN WASTE LINES FROM THE ROUGH-IN AND MAKE THE CONNECTIONS ON THE EQUIPMENT. PROVIDE ALL TRAPS, MANIFOLD AND INTERCONNECT SINK DRAINS WHERE SHOWN. RUN SUPPLY LINES FROM THE EQUIPMENT. PROVIDE ALL TRAPS, VALVES AND VENTS REQUIRED FOR INSTALLATION.
- ALL EXPOSED PIPING (ABOVE COUNTER HEIGHT OR IN A "DIRECT" LINE OF SIGHT) SHALL BE PAINTED OR CHROME SLEEVED AS DIRECTED BY THE ARCHITECT.
- INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THROUGH BUILDING WALLS AND EQUIPMENT.
- INSTALL FAUCETS, PRE-RINSE ASSEMBLIES, HOSE STATIONS, POT FILLERS, VACUUM BREAKERS, CHECK VALVES, FLOW CONTROL VALVES, PRESSURE REDUCING VALVES, WATER STRAINERS, WATER FILTERS, ETC., ALL AS FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR. PROVIDE WATER PRESSURE REDUCING VALVES AND GAUGES FOR READING SET PRESSURE WHERE REQUIRED.
- PROVIDE ALL "INDIRECT" WASTE AND CONDENSATE LINES FROM EQUIPMENT TO FLOOR DRAINS.
- PROVIDE A MAXIMUM OF 1/16" PER FOOT SLOPE IN AREAS AROUND FLOOR DRAINS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- REFER TO THE ITEM KITCHEN EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

WORK BY DIVISION 22

FD1 — FLOOR DRAIN (BY DIVISION 22)

FD2 — FLOOR DRAIN, FUNNEL TYPE (BY DIVISION 22)

FD3 — 12" X 12" X 8" DEEP SANITARY TYPE FLOOR SINK WITH HALF-GRATE (BY DIVISION 22)

FD4 — FLEXIBLE DRAIN HOSE FROM EQUIPMENT TO FLOOR DRAIN BY DIVISION 22.

FD5 — MODULAR TRENCH DRAIN WITH 3" DRAIN HUB BY DIVISION 22.

V1 — STORAGE ROOM VENTILATION

DIVISION 23 TO COOL AND/OR VENTILATE THE DRY FOOD STORAGE ROOM TO MAINTAIN A TEMPERATURE OF 68 TO 72 DEGREES YEAR-ROUND.

V2 — DISHROOM VENTILATION

THE WASHER DISSIPATES THE FOLLOWING AMOUNT OF HEAT DIRECTLY INTO THE AREA WHICH MUST BE EXHAUSTED BY MEANS OTHER THAN THAT OF THE DISHWASHER EXHAUST SYSTEM.

LATENT HEAT = 68,700 BTU/HR. SENSIBLE HEAT = 29,500 BTU/HR.

MECHANICAL SYMBOLS

- HOT AND COLD WATER ROUGH-IN
- DRAIN ROUGH IN
- GAS ROUGH IN
- STEAM SUPPLY
- STEAM RETURN
- FLOOR DRAIN
- SANITARY FLOOR DRAIN
- OPEN SIGHT DRAIN
- REFRIGERATION CONNECTION
- CONNECTION ON EQUIPMENT
- SOLID PIPING BY DIVISION 22
- FLEXIBLE PIPING BY K.E.C.
- EXHAUST AIR TAP
- SUPPLY AIR TAP
- 9 — CONNECTION NUMBER
- 9 — EQUIPMENT NUMBER

ABBREVIATIONS

SS	STEAM SUPPLY	SFD	SANITARY FLOOR DRAIN	BTC	BRANCH TO CONNECTION
SR	STEAM RETURN	FFD	FUNNEL FLOOR DRAIN	SU	STUB UP
W	WASTE	OSD	OPEN SIGHT DRAIN	HR	HOUR
HW	HOT WATER	BHP	BOILER HORSEPOWER	BTU	BRITISH THERMAL UNIT
CW	COLD WATER	AF	ABOVE FLOOR	CFM	CUBIC FEET/MINUTE
FD	FLOOR DRAIN	DFA	DROP FROM ABOVE	G	GAS

FOOD SERVICE PLUMBING SCHEDULE

ITEM NO	DESCRIPTION	CW SIZE	HEIGHT	HW SIZE	HEIGHT	HW TEMP	W SIZE	HEIGHT	IW SIZE	GAS SIZE	HEIG HT	BTUH	REMARKS
1	Walk-In Cooler and Freezer								1"				Condensate drain lines from evaporators to floor drain by Division 22
1.1	Cooler Evaporator								1"				Division 22 extend insulated drain line from evaporator to nearest floor drain
1.2	Freezer Evaporator								1"				Division 22 extend drain line from evaporator to nearest floor drain
1.3	Cooler Condensing Unit												
1.4	Freezer Condensing Unit												
2	Shelf Unit, Mobile												
3	<varies>												
4	Dunnage Rack, Mobile												
5	Dunnage Rack, Fixed												
6	Utility Cart, Mobile												
7	Drying Rack, Mobile												
8	Sheet Pan Rack, Mobile												
9	Can Rack, Mobile												
10	Spare Number												
11	Food Slicer												
12	Food Processor												
13	Rack Conveyor Dishwasher	1/2"	1' - 4"	1/2"	1' - 4"	140 °F			2"				Division 22 connect 140° HW to the booster heater on the dishwasher thru the K.E.C. furnished water filter system. Connect CW to the solenoid on the Drain Tempering Device.
13.1	Drain Water Tempering Device	3/4"	1' - 4"										Division 22 connect CW to the drain water tempering device
14	Spare Number												
15	Spare Number												
16	Spare Number												
17	Can Opener, Electric												
18	Hot Water Dispenser	1/4"	0' - 0"						1"				Division 22 branch 1/4" CW from the Work Counter and connect to the Hot Water Dispenser
19	Ice Maker, Undercounter	1/2"	1' - 4"						1"				Division 22 connect CW to the Ice Maker thru the K.E.C. furnished water filter system. Extend drain line to the floor drain below
20	Spare Number												
21	Convection Oven									1"	0' - 0"	180000.0 Btu/h	Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
22	Six Burner Range									1"	0' - 0"	243000.0 Btu/h	Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
23	Tilting Braising Pan	1/2"	0' - 0"	1/2"	0' - 0"					3/4"	0' - 0"	170607.0 Btu/h	Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
24	Convection Steamer	1/2"	0' - 0"						2"	3/4"	0' - 0"	100000.0 Btu/h	Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
25	Combi Oven-Steamer	3/4"						0' - 0"	2"				Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
26	Tilting Kettle	1/2"	0' - 0"	1/2"	0' - 0"				2"	1/2"	0' - 0"	190000.0 Btu/h	Division 22 drop utilities from above thru Utility Cabinet and connect to equipment
27	Dishwasher Ventilation System												
28	Ventilation Hood												
28.1	Exhaust Fan												
28.2	Supply Fan												
28.3	Make-Up Air Furnace									1"	0' - 0"	389869.0 Btu/h	Division 22 provide service valve and connect to the furnace on the building roof
29	Fire Suppression System												
30	Spare Number												
31	Vegetable Prep Table	3/4"	10' - 0"	1/2"	10' - 0"	110 °F			2"				Division 22 drop from above thru chase and connect to pre-rinse assembly. Extend drain piping from bottom of sink compartment to floor sink
32	Mobile Slicer Table												
33	Island Prep Table												
34	Island Work Table												
35	Pot and Pan Rack, Mobile												
36	Soiled Dishtable w/ Sinks												
37	Clean Dishtable												
38	Floor Trough						3"	-0' - 10"					Division 22 connect drain trough to the grease trap. Grease trap provided by others.
39	Utility Cabinet												
40	Spare Number												
41	Hot/Cold/Freeze Food Table								1"				Division 22 extend flexible drain hose from connection to nearest floor drain
42	Hot/Cold/Freeze Food Table								1"				Division 22 extend flexible drain hose from connection to nearest floor drain
43	Hot/Cold/Freeze Food Table								1"				Division 22 extend flexible drain hose from connection to nearest floor drain
44	Hot/Cold/Freeze Food Table								1"				Division 22 extend flexible drain hose from connection to nearest floor drain
45	Cashier Counter, Mobile												
46	Rack Dispenser												
47	Spare Number												
48	Spare Number												
49	Reach-In Display Refrigerator												
50	Spare Number												
51	Open Air Merchandiser												
52	Pass-Thru Heated Cabinet, Mobile												
53	Pass-Thru Refrigerator, Mobile												
54	Disposer	1/2"	0' - 0"				3"	0' - 8"					Division 22 branch 1/2" CW to side water inlet on the disposer thru the K.E.C. furnished vacuum breaker
55	Disposer	1/2"	0' - 0"				3"	0' - 4"					Division 22 branch 1/2" CW to side water inlet on the disposer thru the K.E.C. furnished vacuum breaker
56	Disposer	1/2"	0' - 0"				3"	0' - 4"					Division 22 branch 1/2" CW to side water inlet on the disposer thru the K.E.C. furnished vacuum breaker
57	Tray Dryer												
58	Spare Number												
59	Enclosed Stainless Steel Hose Reel	3/4"	4' - 0"	1/2"	4' - 0"	110 °F							Division 22 connect 1/2" HW and 1/2" CW to the hose reel mixing valve mounted at 48 " a.f.f. Provide a single water line from the mixing valve to the hose reel mounted 90" above the floor. Vertical run of piping to be concealed within the building wall.
60	Spare Number												
61	Hand Sink	1/2"	1' - 4"	1/2"	1' - 4"		2"	1' - 0"					Hand Sink by Division 22
62	Mop Sink	3/4"	3' - 0"	3/4"	3' - 0"		1"	0' - 3"					Mop Sink by Divsion 22
63	Locker												
64	Detergent Injector System												
65	POS System												
66	Spare Number												
67	Spare Number												
68	Spare Number												
69	Spare Number												
70	Spare Number												
71	Serving Counter												
72	Glass Door Merchandiser												
73	Warming Cabinet												
74	Sheet Pan Rack, Mobile												
75	Hand Sink	1/2"	0' - 0"	1/2"	0' - 0"		2"	0' - 0"					

4

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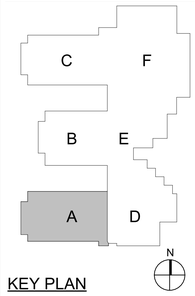

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE PLUMBING SCHEDULE

FS2.02

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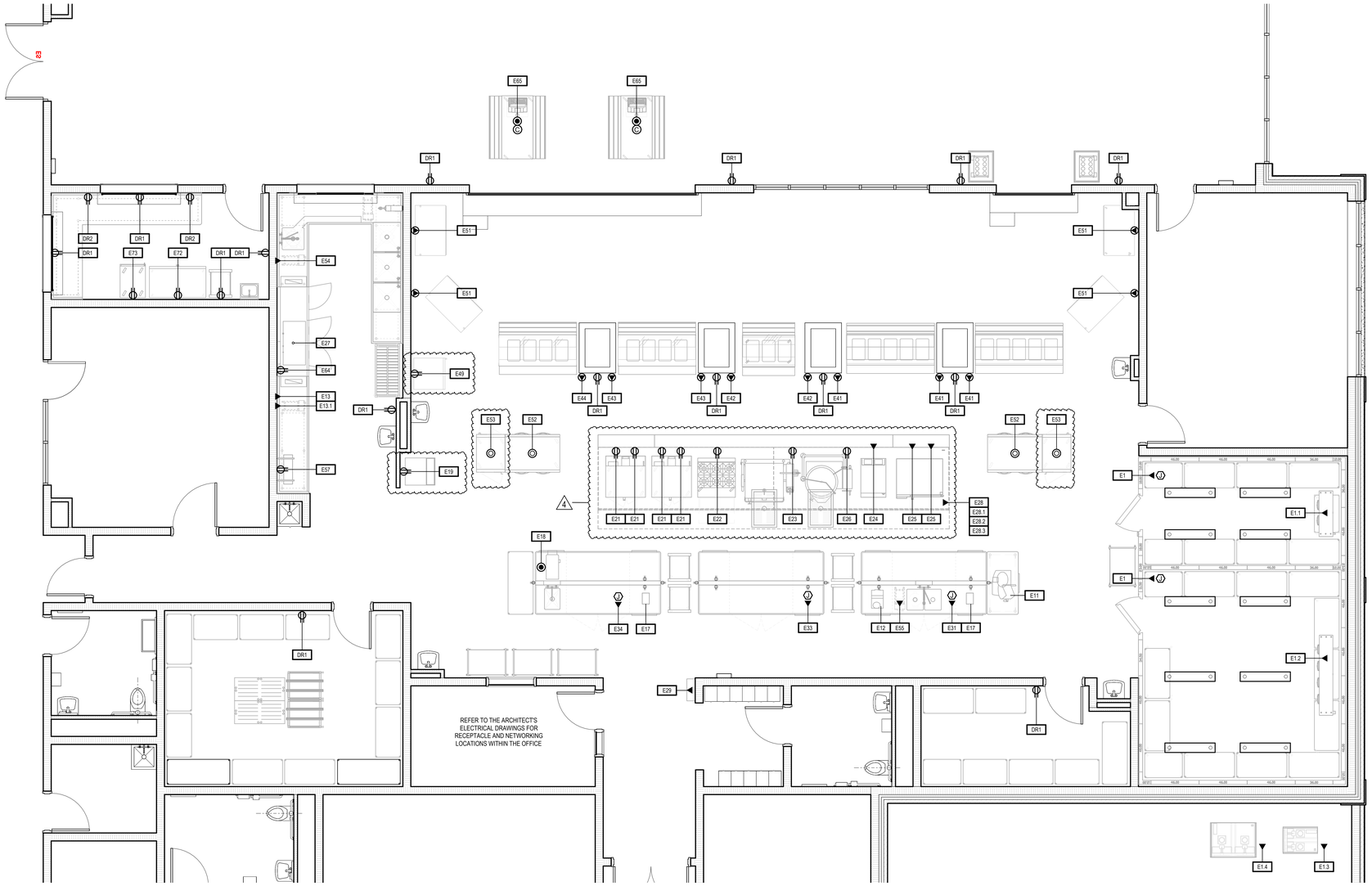

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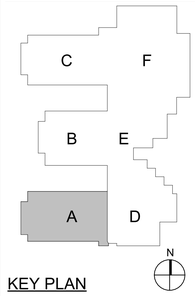

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE ELECTRICAL PLAN

FS3.01

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WORK BY DIVISION 26

- THE ELECTRICAL SCHEDULE INFORMATION IS BASED ON THE PRIME SPEC EQUIPMENT SHOWN IN THE SPECIFICATIONS. IN THE EVENT THE K.E.C. PROPOSES TO FURNISH AN EQUAL TO THE PRIME SPEC EQUIPMENT, THE K.E.C. SHALL BE RESPONSIBLE FOR ANY UPCHARGES ACCRUED AS A RESULT OF PIPING OR MECHANICAL CHANGES NECESSARY FOR THE EQUIPMENT BEING PROVIDED.
- ROUGH-IN ELECTRICAL SERVICE THRU WALLS, FLOORS AND CEILINGS AND RUN CONDUIT AND CONDUCTORS FROM THE ROUGH-IN. MAKE THE CONNECTIONS TO A TERMINAL BLOCK, TERMINAL PANEL OR JUNCTION BOX ON THE EQUIPMENT. FURNISH AND INSTALL ALL ELECTRICAL OUTLETS IN WALLS, FLOOR AND CEILING.
- FURNISH AND INSTALL ALL DISCONNECT SWITCHES AS REQUIRED FOR THE EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL CODE.
- FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN REMOTE CONTROL PANELS AND THE FOOD SERVICE EQUIPMENT.
- THE FOOD SERVICE EQUIPMENT ELECTRICAL DRAWINGS AND EQUIPMENT DATA INFORMATION ARE PREPARED FOR THE CONVENIENCE OF BIDDING AND ARE NOT INTENDED AS ROUGH-IN DRAWINGS TO BE USED ON THE PROJECT SITE. CONTRACTORS SHALL REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S ROUGH-IN DRAWINGS FOR ACCURATE LOAD REQUIREMENTS AND LOCATION OF UTILITIES.
- COORDINATE ELECTRICAL CHARACTERISTICS OF OWNER'S EXISTING EQUIPMENT WHICH IS TO BE REUSED WITH THE KITCHEN EQUIPMENT CONTRACTOR.

ELECTRICAL SYMBOLS

ROUGH-IN	DISCONNECT SWITCH
JUNCTION BOX	WIRING BY DIVISION 26
SOLENOID	WIRING BY KEC
THERMOSTAT	DUPLEX RECEPTACLE
CONDUIT	FLOOR RECEPTACLE
RELAY	DROP CORD
ALARM	SPECIAL PURPOSE OUTLET
TIMER	CONNECTION ON EQUIPMENT
LIGHT	CONNECTION NUMBER
SWITCH	EQUIPMENT NUMBER

CONVENIENCE RECEPTACLES

DR1 — DUPLEX RECEPTACLE
16.0 AMP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN BUILDING WALL 16" AF. DIVISION 26 PROVIDE A NEMA 5-20R GFCI RECEPTACLE.

DR2 — DUPLEX RECEPTACLE
16.0 AMP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN BUILDING WALL 48" AF. DIVISION 26 PROVIDE A NEMA 5-20R GFCI RECEPTACLE.

DR3 — PEDESTAL RECEPTACLE
16.0 AMP 120V-1 PEDESTAL TYPE FLOOR RECEPTACLE 4 1/2" MAXIMUM HEIGHT. DIVISION 26 PROVIDE A NEMA 5-20R GFCI RECEPTACLE.

ABBREVIATIONS

DR	DUPLEX RECEPTACLE
SPO	SPECIAL RECEPTACLE
JB	JUNCTION BOX
DS	DISCONNECT SWITCH
AMP	AMPERAGE
C/P	CORD AND PLUG
AF	ABOVE FLOOR
DFA	DROP FROM ABOVE
KW	KILOWATT
HP	HORSEPOWER
V	VOLTS
SU	STUB UP

FOOD SERVICE ELECTRICAL SCHEDULE

ITEM NO	DESCRIPTION	VOLTS	VOLTS	PHASE	AMPS	WATTS	HP	HEIGHT	NEMA	CONN TYPE	REMARKS
1	Walk-In Cooler and Freezer	120 V		1	16.00 A			10' - 0"		Direct Connection	Division 26 drop from above and connect to the junction box on top of the ceiling. Wire from the junction box to the K.E.C. furnished light fixtures
1.1	Cooler Evaporator	115 V		1	1.60 A	184 W		8' - 0"		Direct Connection	Division 26 drop from above and connect to the junction box on the freezer coil and wire in seal-tite conduit to the K.E.C. furnished room temperature controls.
1.2	Freezer Evaporator	208 V		1	24.70 A	5138 W				Direct Connection	Division 26 drop from above and connect to the junction box on the freezer coil and wire in seal-tite conduit to the K.E.C. furnished room temperature controls. Wire drain line heater to the hot terminal on the evaporator.
1.3	Cooler Condensing Unit	208 V		3	5.90 A	3640 W	.75	0' - 0"		Direct Connection	Division 26 connect to K.E.C. furnished disconnect switch on the compressor. Disconnect switch to be factory wired to the compressor and timer
1.4	Freezer Condensing Unit	208 V		3	23.70 A	6531 W	6.0	0' - 0"		Direct Connection	Division 26 connect to K.E.C. furnished disconnect switch on the compressor. Disconnect switch to be factory wired to the compressor and timer
2	Shelf Unit, Mobile										
3	<varies>										
4	Dunnage Rack, Mobile										
5	Dunnage Rack, Fixed										
6	Utility Cart, Mobile										
7	Drying Rack, Mobile										
8	Sheet Pan Rack, Mobile										
9	Can Rack, Mobile										
10	Spare Number										
11	Food Slicer	120 V		1	5.40 A			0' - 0"	5-15P	Cord and Plug	Power from Item 31, Vegetable Prep Table
12	Food Processor	120 V		1	8.00 A		3/4	0' - 0"	5-15P	Cord and Plug	Power from Item 31, Vegetable Prep Table
13	Rack Conveyor Dishwasher	480 V		3	88.00 A			1' - 4"		Direct Connection	Division 26 wire in seal-tite conduit to the control panel on the dishwasher.
13.1	Drain Water Tempering Device	120 V		1	16.00 A			2' - 0"		Direct Connection	Division 26 wire in seal-tite conduit from the rough-in to the solenoid on the drain water tempering device
14	Spare Number										
15	Spare Number										
16	Spare Number										
17	Can Opener, Electric	120 V		1	1.20 A	140 W		0' - 0"		Cord and Plug	Service from item 31, Vegetable Prep Table
18	Hot Water Dispenser	208 V		1	24.00 A	5000 W		0' - 4"	6-30P	Cord and Plug	Division 26 provide a NEMA 6-30R pedestal type floor receptacle at 5" maximum height
19	Ice Maker, Undercounter	115 V		1	6.00 A	690 W		1' - 4"	5-15P	Cord and Plug	Division 26 provide a flush mounted receptacle in the building wall
20	Spare Number										
21	Convection Oven	120 V		1	7.90 A	1896 W	1/2	0' - 0"		Cord and Plug	Division 26 drop from above thru the Utility Cabinet and provide a NEMA 5-15R receptacle. Mount receptacle in the Utility Cabinet
22	Six Burner Range	120 V		1	12.00 A	1440 W		0' - 0"		Cord and Plug	Division 26 drop from above thru the Utility Cabinet and provide a NEMA 5-15R receptacle. Mount receptacle in the Utility Cabinet
23	Tilting Braising Pan	120 V		1	1.40 A	500 W		0' - 0"	5-15P	Cord and Plug	Division 26 drop from above thru the Utility Cabinet and provide a NEMA 5-15R receptacle. Mount receptacle in the Utility Cabinet
24	Convection Steamer	120 V		1	2.50 A	300 W		0' - 0"		Direct Connection	Division 26 drop from above thru the Utility Cabinet and wire in seal-tite conduit to the terminal on the equipment
25	Combi Oven-Steamer	480 V		3	23.30 A	19300 W		0' - 0"		Direct Connection	Division 26 drop from above thru the Utility Cabinet and wire in seal-tite conduit to the terminal on the equipment
26	Tilting Kettle	120 V		1	10.00 A	1200 W		0' - 0"	5-15P	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the Utility Cabinet
27	Dishwasher Ventilation System	120 V		1	8.00 A		1/2	0' - 0"		Direct Connection	Division 26 wire from the exhaust fan motor on the building roof to the vent fan control terminal on the dishwasher control panel
28	Ventilation Hood	120 V		1	16.00 A			10' - 0"		Direct Connection	Division 26 wire from rough-in to the junction box on top of hood for canopy lights
28.1	Exhaust Fan	480 V		3	12.40 A					Direct Connection	Division 26 provide service to building roof. Wire from the rough-in and connect to the fused disconnect switch on the fan control cabinet
28.2	Supply Fan	480 V		3	0.00 A					Direct Connection	Service from item #28.1, Exhaust Fan
28.3	Make-Up Air Furnace	120 V		1	10.00 A					Direct Connection	Division 26 provide service to building roof. Wire from the rough-in and connect to the fused disconnect switch on the furnace control cabinet
29	Fire Suppression System	120 V		1	16.00 A			10' - 0"		Direct Connection	Division 26 provide 24 hour fused dedicated service near ceiling and provide all relays. Refer to wiring diagram
30	Spare Number										
31	Vegetable Prep Table	120 V		1	16.00 A			0' - 4"		Direct Connection	Division 26 provide six (6) separate circuits and wire in seal-tite conduit to the junction box on the table.
32	Mobile Slicer Table										
33	Island Prep Table	120 V		1	16.00 A			0' - 4"		Direct Connection	Division 26 provide six (6) separate circuits and wire in seal-tite conduit to the junction box on the table.
34	Island Work Table	120 V		1	16.00 A			0' - 4"		Direct Connection	Division 26 provide six (6) separate circuits and wire in seal-tite conduit to the junction box on the table.
35	Pot and Pan Rack, Mobile										
36	Soiled Dishtable w/ Sinks										
37	Clean Dishtable										
38	Floor Trough										
39	Utility Cabinet										
40	Spare Number										
41	Hot/Cold/Freeze Food Table		120/208	1	21.60 A			1' - 4"	14-30P	Cord and Plug	Division 26 provide a NEMA 14-30R receptacle flush mounted in the building wall
42	Hot/Cold/Freeze Food Table		120/208	1	12.00 A			1' - 4"	14-20P	Cord and Plug	Division 26 provide a NEMA 14-20R receptacle flush mounted in the building wall
43	Hot/Cold/Freeze Food Table		120/208	1	24.00 A			1' - 4"	14-30P	Cord and Plug	Division 26 provide a NEMA 14-30R receptacle flush mounted in the building wall
44	Hot/Cold/Freeze Food Table		120/208	1	24.00 A			1' - 4"	14-30P	Cord and Plug	Division 26 provide a NEMA 14-30R receptacle flush mounted in the building wall
45	Cashier Counter, Mobile										
46	Rack Dispenser										
47	Spare Number										
48	Spare Number										
49	Reach-In Display Refrigerator	115 V		1	5.40 A	621 W	1/3	0' - 0"	5-15		
50	Spare Number										
51	Open Air Merchandiser	208 V		1	7.60 A	1581 W	(2) 3/4	1' - 4"	6-15P	Cord and Plug	Division 26 provide a special receptacle flush mounted in the building wall
52	Pass-Thru Heated Cabinet, Mobile	208 V		1	14.42 A	3000 W		10' - 0"	6-20P	Cord and Plug	Division 26 provide a special receptacle flush mounted in the ceiling
53	Pass-Thru Refrigerator, Mobile	115 V		1	3.80 A	437 W	1/4	10' - 0"	5-15P	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the ceiling
54	Disposer	480 V		3	6.00 A		3	2' - 0"		Direct Connection	Division 26 wire in seal-tite conduit from rough-in to the solenoid valve(s) and disposer control center
55	Disposer	480 V		3	2.40 A		2	2' - 0"		Direct Connection	Division 26 wire in seal-tite conduit from rough-in to the solenoid valve(s) and disposer control center
56	Disposer	480 V		3	2.40 A		2	2' - 0"		Direct Connection	Division 26 wire in seal-tite conduit from rough-in to the solenoid valve(s) and disposer control center
57	Tray Dryer	120 V		1	16.00 A			5' - 0"	5-20P	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the ceiling
58	Spare Number										
59	Enclosed Stainless Steel Hose Reel										
60	Spare Number										
61	Hand Sink										
62	Mop Sink										
63	Locker										
64	Detergent Injector System	120 V		1	16.00 A			4' - 0"	5-20	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the building wall
65	POS System	120 V		1	12.00 A			0' - 0"	5-15P	Cord and Plug	Division 26 provide conduit and CPU wiring from the terminals at the cash handling stations to the computer terminals located in the office
66	Spare Number										
67	Spare Number										
68	Spare Number										
69	Spare Number										
70	Spare Number										
71	Serving Counter										
72	Glass Door Merchandiser	115 V		1	8.50 A	978 W	1/2	1' - 4"	5-15P	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the building wall
73	Warming Cabinet	120 V		1	16.70 A	2004 W	0	1' - 4"	5-20P	Cord and Plug	Division 26 provide a duplex receptacle flush mounted in the building wall
74	Sheet Pan Rack, Mobile										
75	Hand Sink										

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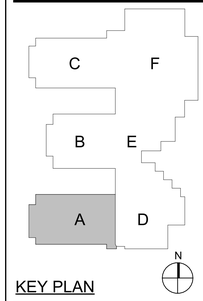

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE ELECTRICAL SCHEDULE

FS3.02

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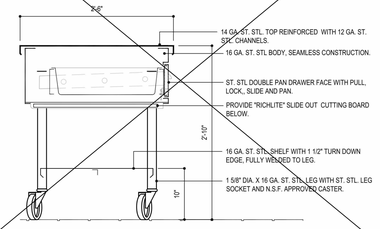

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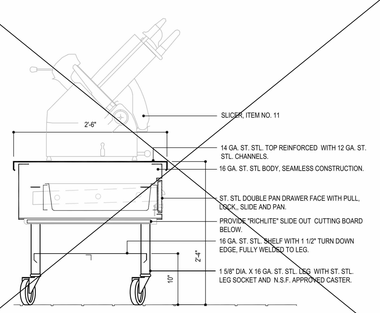
17 MOBILE WORK TABLE
ITEM NO. 35

DELETED



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18 MOBILE SLICER TABLE
ITEM NO. 32

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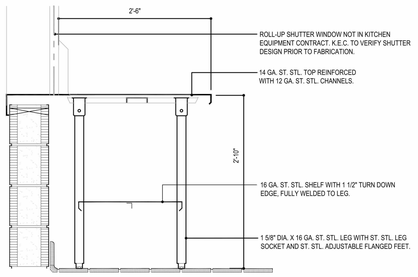
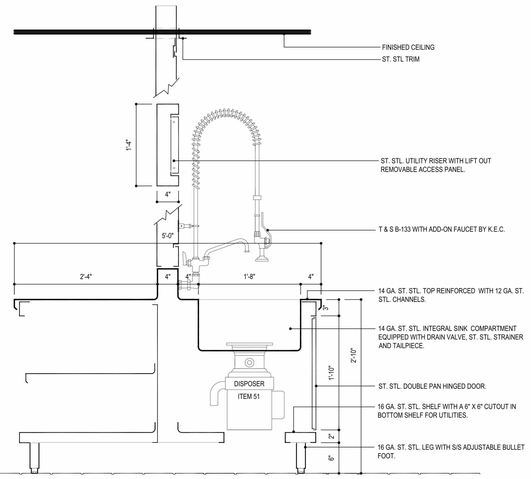
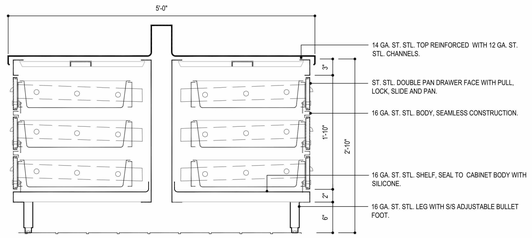


19 SERVING COUNTER
ITEM NO. 71

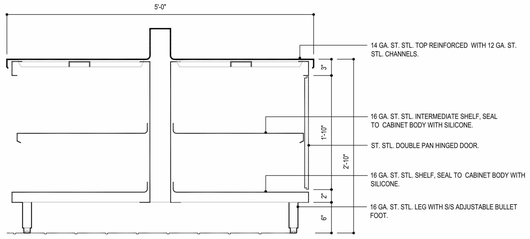
20 NOT USED



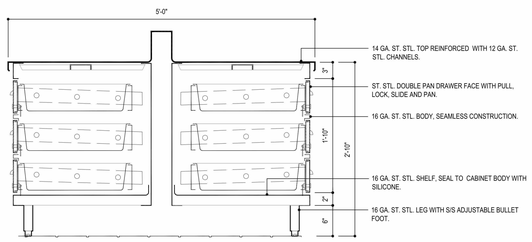
21 VEGETABLE PREP TABLE
ITEM NO. 31



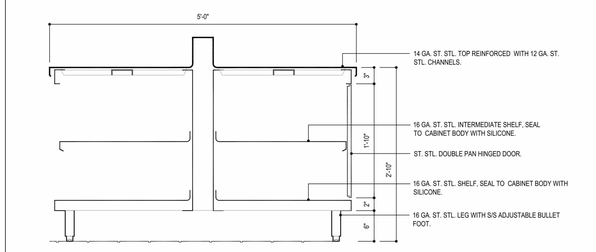
22 VEGETABLE PREP TABLE
ITEM NO. 31



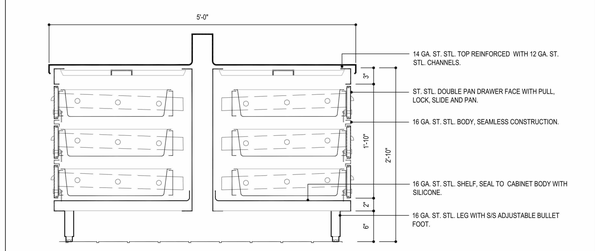
23 VEGETABLE PREP TABLE
ITEM NO. 31



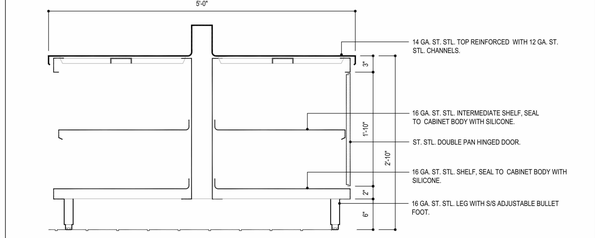
24 ISLAND PREP TABLE
ITEM NO. 33



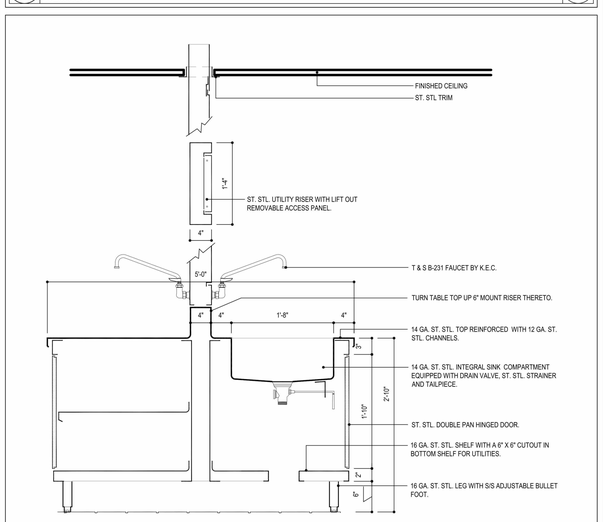
25 ISLAND PREP TABLE
ITEM NO. 33



26 ISLAND WORK TABLE
ITEM NO. 34



27 ISLAND WORK TABLE
ITEM NO. 34



27 ISLAND WORK TABLE
ITEM NO. 34

28 NOT USED
NTS

29 NOT USED
NTS

30 NOT USED
NTS

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

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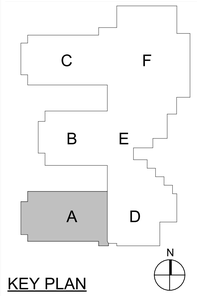

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE EQUIPMENT DETAILS

FS6.02

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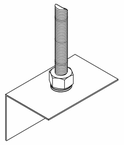
NOTE:

UCS System require assembly and installation in the field.

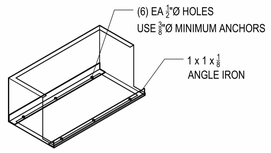
The field coordination, assembly and installation of the UCS System and costs incurred to perform the field coordination assembly and installation, are the responsibility of the purchaser of the UCS System.

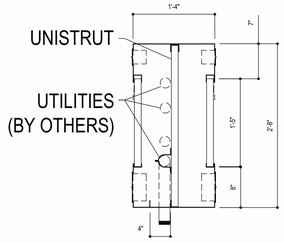
STABILIZER BAR DETAIL

$\frac{1}{4}$" Threaded bar and lock nuts are not provided.

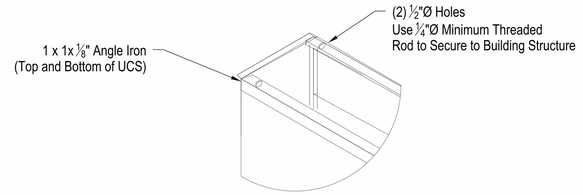


MOUNTING DETAIL

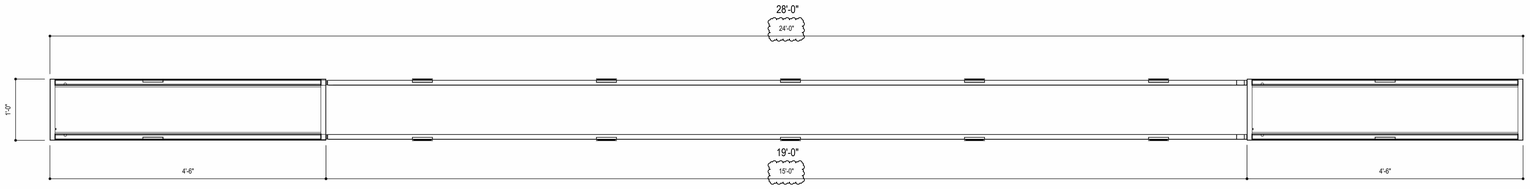




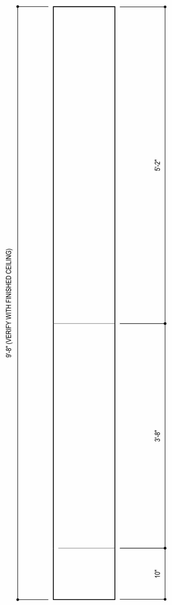
DETAIL



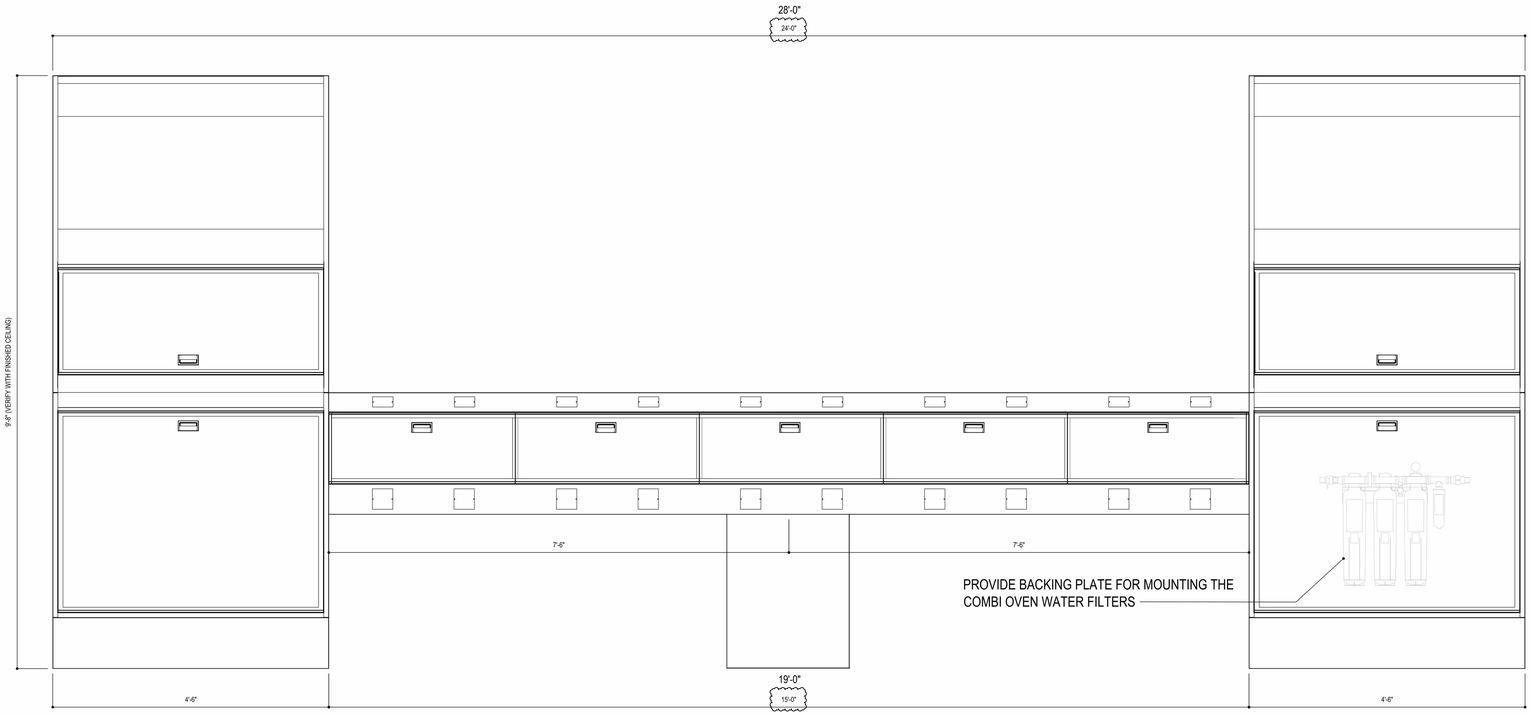
DETAIL



ITEM 39 - UTILITY CABINET
PLAN VIEW



ITEM 39- UTILITY CABINET
SIDE



ITEM 39 - UTILITY CABINET
FRONT

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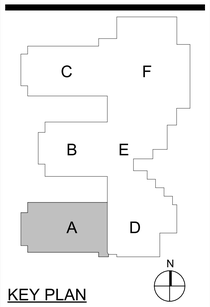

KEY PLAN

PHASE

DRAWN BY: DJW

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
4	Addendum #4	11-24-2025

FOOD SERVICE EQUIPMENT DETAILS

FS6.03

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ARCHITECTURAL/SITE ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

@	AT	M	METER
AC	AIR CONDITIONING	MAS	MASONRY
ACT	ACOUSTICAL CEILING TILE	MAT	MATERIAL
AD	AREA DRAIN	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFP	ACCORDION FOLDING PARTITION	MEZZ	MEZZANINE
AGG	AGGREGATE	MFR	MANUFACTURER
ALT	ALTERNATIVE	MH	MOP HOLDER
AL	ALUMINUM	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
APROX	APPROXIMATE	MM	MILLIMETER
AR	ACID RESISTANT	MO	MASONRY OPENING
ARCH	ARCHITECT(URAL)	MTL	METAL
ASPH	ASPHALT		
AV	AUDIO-VISUAL	N	NORTH
AWG	AMERICAN WIRE GUAGE	NIC	NOT IN CONTRACT
AWT	ACCOUSTICAL WALL TREATMENT	NO#	NUMBER
L	ANGLE	NOM	NOMINAL
&	AND	NTS	NOT TO SCALE
BIT	BITUMINOUS	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
BM	BENCH MARK / BEAM	OPP	OPPOSITE
B.O.	BOTTOM OF	O.H.	OPPOSITE HAND
BOS	BOTTOM OF STEEL	O TO O	OUT TO OUT
BOT	BOTTOM	OW	OPERABLE WALL
BRG	BEARING	OZ	OUNCE
BRK	BRICK		
BUR	BUILT-UP ROOF	P	PAINT
		PA	PUBLIC ADDRESS
CAB	CABINET	PERF	PERFORATED
CAR	CARPET	PLAS	PLASTIC
CAT	CATALOG	PL	PLASTIC LAMINATE
CB	CHALKBOARD / CATCH BASIN	PLBG	PLUMBING
CFM	CUBIC FEET PER MINUTE	PLYWD	PLYWOOD
CH	CABINET HEATER	PREFAB	PREFABRICATED
CI	CAST IRON	PS	PROJECTION SCREEN
CJ	CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	PSS	PENCIL SHARPENER SUPPORT
CLG	CEILING	PT	PORCELAIN TILA
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CMT	CERAMIC MOSAIC TILE	PVMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT	QT	QUARRY TILE
COL	COLUMN		
COMP	COMPACTED	R	RISER
CONC	CONCRETE	RA	RETURN AIR
CONSTR	CONSTRUCTION	RAD/R	RADIUS
CONT	CONTINUOUS/CONTINUE	RB	RESILIENT BASE
CONTR	CONTRACTOR	RCP	REINFORCED CONCRETE PIPE
CORR	CORRUGATED	RD	ROOF DRAIN
CT	CERAMIC TILE	REF	REFERENCE
C TO C	CENTER TO CENTER	REFR	REFRIGERATOR
CSK	COUNTER SINK	REINF	REINFORCING
CU FT/CF	CUBIC FEET	REQ'D	REQUIRED
CU IN/CI	CUBIC INCH	REV	REVISION(S)
CU YD/CY	CUBIC YARD	RM	ROOM
CUSP	CUSPIDOR	R.O.	ROUGH OPENING
CW	COLD WATER	ROW	RIGHT-OF-WAY
CWF	CEMENTITIOUS WOOD FIBER		
		S	SOUTH
d	PENNY (NAILS, ETC.)	SA	SUPPLY AIR
D	DEPTH/DEEP	SAN	SANITARY
°	DEGREE	SCHED	SCHEDULE
DC	DISPLAY CASE	SD	STORM DRAIN / SMOKE DETECTOR
DEPT	DEPT	SECT	SECTION
DET	DETAIL	SEW	SEWER
DF	DRINKING FOUNTAIN	SGFT	STRUCTURAL GLAZED FACING TILE
DIA/ Ø	DIAMETER	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DIV	DIVISION	SP	SPACE
DL	DEAD LOAD	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SPKR	SPEAKER
DS	DOWNSPOUT	SQ	SQUARE
DWC	DRINKING WATER COOLER	SQ FT/SF	SQUARE FEET
		SQ IN/SI	SQUARE INCHES
E	EAST	SQ YD/SY	SQUARE YARDS
EA	EACH	SS	STAINLESS STEEL
EF	EACH FACE	ST	STORM/STREET
EJ	EXPANSION JOINT	STD	STANDARD
EL	ELEVATION	STL	STEEL
ELEC	ELECTRIC(AL)	STRUCT	STRUCTURAL
ELEV	ELEVATOR	SUSP	SUSPENDED
ENGR	ENGINEER	SW	SHORT WAY / SIDEWALK
EP	ELECTRICAL PANELBOARD	SYMM	SYMMETRY(ICAL)
EQ	EQUAL	SYNTH	SYNTHETIC
EQUIP	EQUIPMENT		
EW	EACH WAY	T	TREAD
EFS (or DEFS)	DIRECT APPLIED EXTERIOR FINISH SYSTEM	T&B	TOP AND BOTTOM
EIFS	EXTERIOR INSULATION FINISH SYSTEM	T&G	TONGUE AND GROOVE
EXH	EXHAUST	TA	TOILET ACCESSORY(IES)
EXIST	EXISTING	TB	TACKBOARD
EXP	EXPANSION	TC	TOP OF CURB
EXT	EXTERIOR	TEL	TELEPHONE
EXTN	EXTENSION	TERR	TERRAZZO
		T.O.	TOP OF
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET	TOF	TOP OF FOOTING
FIN	FINISH	TOM	TOP OF MASONRY
FIN FL	FINISH FLOOR	TOS	TOP OF STEEL
FLR	FLOOR	TV	TELEVISION
FDN	FOUNDATION	TYP	TYPICAL
FSR	FLEXIBLE SHEET ROOFING	TWS	TACKABLE WALL SURFACE
FSSK	FLOOR SERVICE SINK		
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	UV	UNIT VENTILATOR
FE	FIRE EXTINGUISHER	UR	URINAL
FEC	FIRE EXTINGUISHER CABINET		
		VCT	VINYL COMPOSITE TILE
GA	GAUGE	VCGWB	VINYL COVERED GYPSUM WALLBOARD
GALV	GALVANIZED(D)	VERT	VERTICAL
GB	GRAB BAR	VFWC	VINYL FABRIC WALLCOVERING
GFCMU	GROUND FACE CONCRETE MASONRY UNIT	VIF	VERIFY IN FIELD
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT	VIT	VITREOUS
GL	GLASS	VOL	VOLUME
GWB	GYPSUM WALLBOARD	VR	VAPOR RETARDER
		VRB	VENTED RESILIENT BASE
H	HEIGHT/HIGH	VS	VENT STACK
HB	HOSE BIB	VT	VINYL STACK
HDWE	HARDWARE		
HM	HOLLOW METAL	W	WEST / WIDE / WIDTH
HORIZ	HORIZONTAL	W/	WITH
HPT	HIGH POINT	W/O	WITHOUT
HS	HIGH STRENGTH	WA	WARDROBE ACCESSORIES
HTG	HEATING	WB	WOOD BASE
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WC	WATER CLOSET / WIND COLUMN
HW	HOT WATER	WD	WOOD
HWY	HIGHWAY	WH	WATER HEATER
		WP	WORKING POINT
ID	INSIDE DIAMETER	WSSK	WALL SERVICE SINK
IN	INCH	WWF	WELDED WIRE FABRIC
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION	YD	YARD / YARD DRAIN
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB#	POUND		
LKR	LOCKER		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LVR	LOUVER		
LW	LONG WAY		

MATERIAL SYMBOLS LEGEND

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- ASPHALT
- EARTH
- GRAVEL, STONE, OR DRAINAGE FILL
- SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK
- CONCRETE
- TERRAZZO
- CUT STONE
- MARBLE
- SLATE
- FACE BRICK (PLAN)
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- METAL ROOF DECK
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTICAL TILE CEILING
- EXTERIOR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- SIM / 1A / A-400 — CALLOUT
- 1 — REVISION TAG
- A — ROOF TYPE TAG
- 1t — EQUIPMENT TAG
- SIM / 1A / A-300 — BUILDING/WALL SECTION
- X1 — CEILING TAG
- ? — KEY NOTE TAG
- SIM / 1A / A-300 — DETAIL SECTION
- XXXX — DOOR TAG
- SLOPE 1/12 — ROOF SLOPE TAG
- X / AX.XX / X — EXTERIOR ELEVATION
- X / X### — MATCHLINE VIEW REFERENCE
- X Ref / X Ref AX.XX X Ref / X Ref — INTERIOR ELEVATION
- W##X — WALL TAG
- X — GRID HEAD
- 11 — STOREFRONT TAG
- Name / EL XXX'-XX" — LEVEL LINE
- XX — WINDOW TAG
- 101 — ROOM TAG
- 811 — EXISTING CONTOUR
- 811 — NEW CONTOUR
- TB#1 — TEST BORING & NO.
- 811.9 — EXISTING POINT ELEVATION
- 811.9 — NEW POINT ELEVATION
- STORM SEWER INLETS

SHEET INDEX

VOLUME A

COVER
ABBREVIATIONS AND INDEX

00 MISCELLANEOUS
AP-101 FIRST FLOOR CODE PLAN
AP-102 SECOND FLOOR CODE PLAN

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1 TOPOGRAPHIC SURVEY
2 TOPOGRAPHIC SURVEY

C001 PROJECT INFORMATION

C100 OVERALL STORM WATER POLLUTION PREVENTION PLAN
C110 STORMWATER POLLUTION PREVENTION NOTES
C111 STORMWATER POLLUTION PREVENTION DETAILS

C200 OVERALL DEMOLITION PLAN

C300 OVERALL SITE GRADING AND DRAINAGE PLAN
C301 SITE GRADING AND DRAINAGE PLAN - AREA A
C302 SITE GRADING AND DRAINAGE PLAN - AREA B
C303 SITE GRADING AND DRAINAGE PLAN - AREA C
C304 SITE GRADING AND DRAINAGE PLAN - AREA D
C310 OVERALL SITE DRAINAGE DETAILS

C400 OVERALL SITE UTILITY PLAN
C401 SITE UTILITY PLAN - AREA A
C402 SITE UTILITY PLAN - AREA B
C403 SITE UTILITY PLAN - AREA C
C404 SITE UTILITY PLAN - AREA D
C410 SITE DETAILS

C500 OVERALL SITE IMPROVEMENT PLAN
C501 SITE IMPROVEMENT PLAN - AREA A
C502 SITE IMPROVEMENT PLAN - AREA B
C503 SITE IMPROVEMENT PLAN - AREA C
C504 SITE IMPROVEMENT PLAN - AREA D
C505 SITE IMPROVEMENT PLAN - AREA E
C506 SITE IMPROVEMENT PLAN - AREA F
C510 SITE IMPROVEMENT PLAN DETAILS
C511 SITE IMPROVEMENT PLAN DETAILS
C512 SITE IMPROVEMENT PLAN DETAILS
C513 SITE IMPROVEMENT PLAN DETAILS
C514 SITE ENLARGEMENT PLANS

C600 OVERALL SITE LANDSCAPE PLAN
C601 SITE LANDSCAPE PLAN - AREA A
C602 SITE LANDSCAPE PLAN - AREA B
C603 SITE LANDSCAPE PLAN - AREA C
C604 SITE LANDSCAPE PLAN - AREA D
C605 SITE LANDSCAPE PLAN - AREA E
C606 SITE LANDSCAPE PLAN - AREA F
C607 LANDSCAPE PLAN ENLARGEMENTS
C608 ALTERNATE SITE LANDSCAPE PLAN
C610 SITE LANDSCAPE DETAILS

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C701 CITY OF PORTAGE, INDIANA STANDARD DETAILS PAGE 2 OF 2

03 STRUCTURAL
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S-002 STRUCTURAL SYMBOLS & NOTATIONS
S-003 STRUCTURAL NOTES
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S-005 LOADING DIAGRAMS - COLLATERAL DEAD LOAD
S-006 LOADING DIAGRAMS - WIND
S-007 LOADING DIAGRAMS - SNOW
S-008 SCHEDULES

S-10A FOUNDATION PLAN - UNIT A
S-10B FOUNDATION PLAN - UNIT B
S-10C FOUNDATION PLAN - UNIT C
S-10D FOUNDATION PLAN - UNIT D
S-10E FOUNDATION PLAN - UNIT E
S-10F FOUNDATION PLAN - UNIT F
S-11A SLAB-ON-GRADE PLAN - UNIT A
S-11B SLAB-ON-GRADE PLAN - UNIT B
S-11C SLAB-ON-GRADE PLAN - UNIT C
S-11D SLAB-ON-GRADE PLAN - UNIT D
S-11E SLAB-ON-GRADE PLAN - UNIT E
S-11F SLAB-ON-GRADE PLAN - UNIT F
S-12A SECOND FLOOR FRAMING PLAN - UNIT A
S-12B SECOND FLOOR FRAMING PLAN - UNIT B
S-12C SECOND FLOOR FRAMING PLAN - UNIT C
S-12D SECOND FLOOR FRAMING PLAN - UNIT D
S-12E SECOND FLOOR FRAMING PLAN - UNIT E
S-12F SECOND FLOOR FRAMING PLAN - UNIT F
S-13A ROOF FRAMING PLAN - UNIT A
S-13B ROOF FRAMING PLAN - UNIT B
S-13C ROOF FRAMING PLAN - UNIT C
S-13D ROOF FRAMING PLAN - UNIT D
S-13E ROOF FRAMING PLAN - UNIT E
S-13F ROOF FRAMING PLAN - UNIT F
S-100 OVERALL FOUNDATION PLAN
S-101 OVERALL SLAB-ON-GRADE PLAN
S-102 OVERALL SECOND FLOOR FRAMING PLAN
S-103 OVERALL ROOF FRAMING PLAN

S-301 CLADDING ELEVATIONS
S-302 CLADDING ELEVATIONS
S-303 CLADDING ELEVATIONS
S-310 FRAMING ELEVATIONS

S-401 BUILDING SECTIONS
S-402 BUILDING SECTIONS
S-403 BUILDING SECTIONS
S-404 BUILDING SECTIONS
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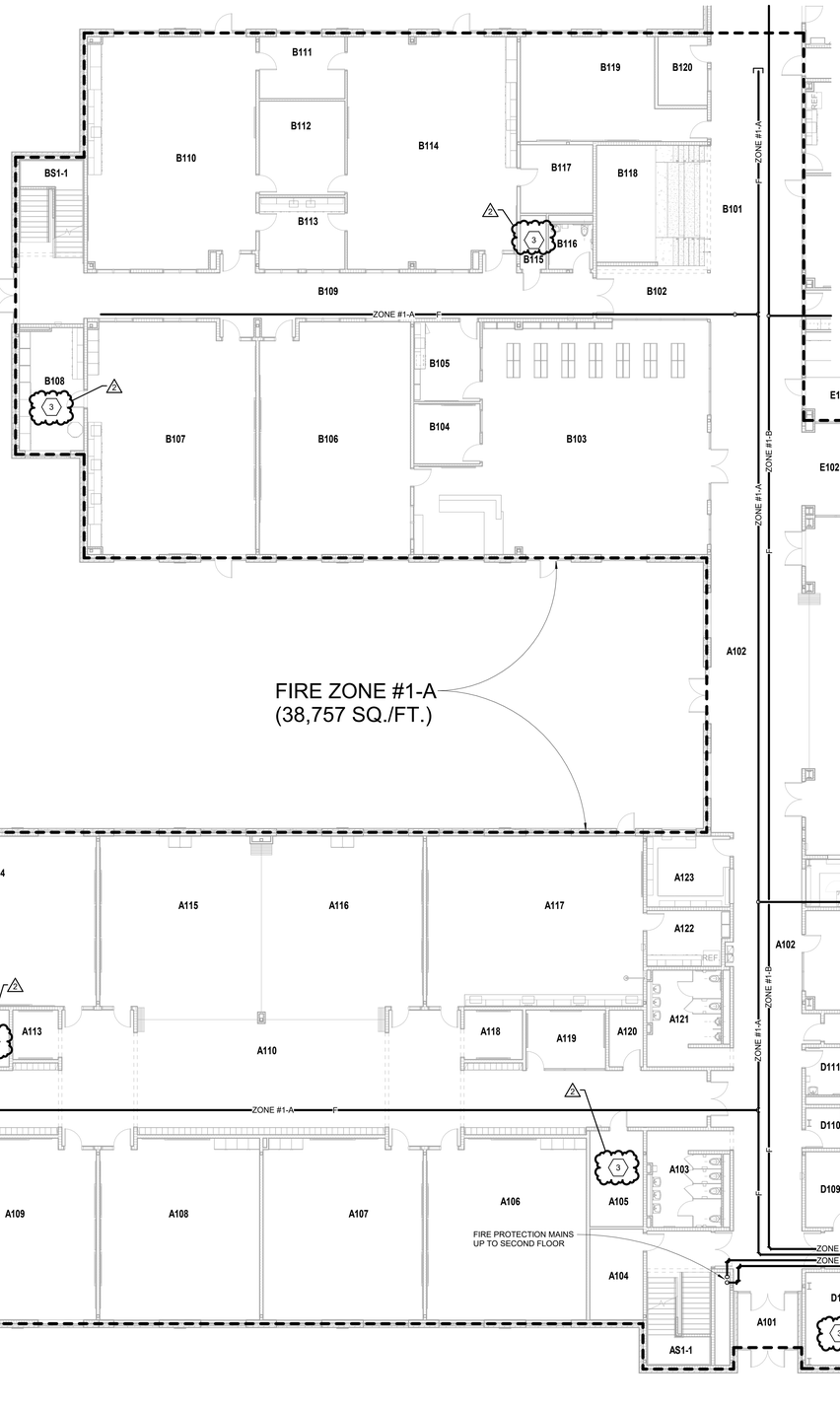
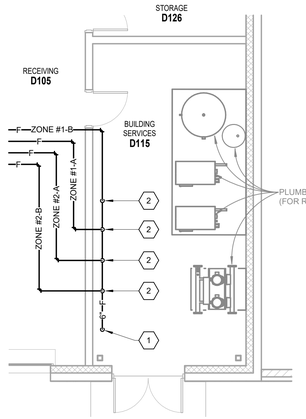


FIRST FLOOR FIRE PROTECTION PLAN - SOUTH

SCALE: 3/32" = 1'-0"



ENLARGED RISER ROOM FIRE PROTECTION PLAN

1 SCALE: 3/16" = 1'-0"

GENERAL FIRE PROTECTION NOTES

A. ALL FIRE PROTECTION WORK PERFORMED ON THIS PROJECT SHALL BE SIZED PER HYDRAULIC CALCULATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL DUCTWORK, RACEWAYS, CABLE TRAYS CONDUITS, STRUCTURAL MEMBERS, PIPING AND ARCHITECTURAL CEILING HEIGHTS AND DESIGN INTENT. ALL FIRE PROTECTION WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE STATE AND LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION TO DELIVER A PENALTY FREE SYSTEM.

B. REFER TO DIVISION 21 FOR ALL AUTOMATIC WET PIPE SPRINKLER SYSTEM REQUIREMENTS.

C. ALL SPRINKLER PIPING SYSTEM INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES AS IT RELATES TO ACCESS AND SERVICEABILITY OF THAT TRADES EQUIPMENT (I.E.: MECHANICAL UNITS, LIGHTS...) ANY SPRINKLER SYSTEM PIPING DETERMINED BY THE ENGINEER TO BE IN CONFLICT WITH OTHER TRADES WILL BE RELOCATED WITH ALL COST TO BE BORNE BY THE FIRE PROTECTION CONTRACTOR.

D. REFER TO ARCHITECTURAL BUILDING SECTIONS, WALL SECTIONS AND STRUCTURAL DRAWINGS FOR STRUCTURAL STEEL ELEVATIONS AND SPACE AVAILABLE ABOVE THE FINISHED CEILING. PROVIDE ALL APPROPRIATE SUPPORT AND BRACING TO THE BUILDING STRUCTURE AS REQUIRED FOR INSTALLATION OF PIPING WITHIN THE GIVEN CONDITIONS.

E. PROVIDE SPRINKLER HEADS ABOVE AND BELOW ALL CLOUD CEILINGS. COORDINATE CLOUD CEILING LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.

ROOM LEGEND - FIRST FLOOR UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A1	KINDERGARTEN CLASSROOM	Not Placed
A101	VESTIBULE	107 SF
A101	Room	Not Placed
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A104	HEAD END	151 SF
A105	MECHANICAL	159 SF
A106	SPECIAL EDUCATION	891 SF
A107	CLASSROOM	889 SF
A108	CLASSROOM	892 SF
A109	CLASSROOM	885 SF
A110	CORRIDOR	2370 SF
A111	TEACHERS	255 SF
A112	MECHANICAL	129 SF
A113	HUDDLE	70 SF
A114	CLASSROOM	843 SF
A115	CLASSROOM	889 SF
A116	CLASSROOM	889 SF
A117	SCIENCE	1148 SF
A118	HUDDLE	90 SF
A119	SGI	147 SF
A120	SENSORY	60 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF

ROOM LEGEND - FIRST FLOOR UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF

ROOM LEGEND - FIRST FLOOR UNIT D

ROOM NO.	ROOM NAME	AREA (SF)
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2365 SF
D122	DISHWASHING	236 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF

FIRE PROTECTION PLAN NOTES - SOUTH

1 INCOMING 6" FIRE PROTECTION SUPPLY FROM BELOW SLAB.

2 ZONE CONTROL VALVE ASSEMBLY IN VERTICAL. REFER TO DETAIL ON DRAWING FP501 FOR MORE INFORMATION.

3 ORDINARY HAZARD AREA.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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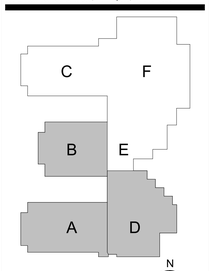

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

FIRST FLOOR FIRE PROTECTION PLAN - SOUTH

FP101

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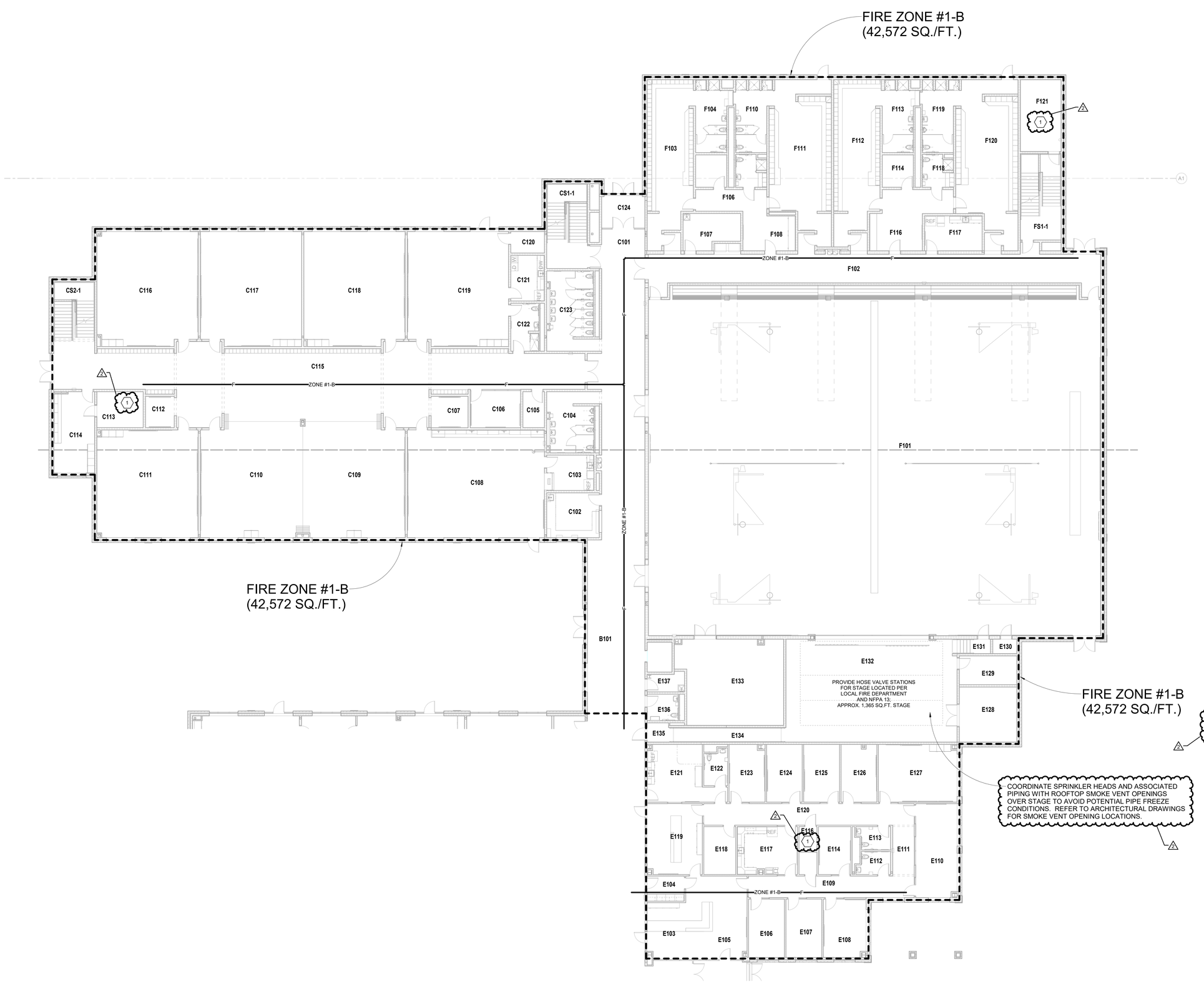

FIRST FLOOR FIRE PROTECTION PLAN - NORTH

SCALE: 3/32" = 1'-0"

FIRE PROTECTION PLAN NOTES - NORTH

1 ORDINARY HAZARD AREA.

ROOM LEGEND - FIRST FLOOR UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
C1	STAGE	Not Placed
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C105	SENSORY	60 SF
C106	SGI	147 SF
C107	HUDDLE	90 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
C112	HUDDLE	70 SF
C113	MECHANICAL	129 SF
C114	TEACHERS	255 SF
C115	CORRIDOR	2370 SF
C116	CLASSROOM	885 SF
C117	CLASSROOM	892 SF
C118	CLASSROOM	889 SF
C119	APPLIED SKILLS	891 SF
C120	SENSORY	56 SF
C121	KITCHENETTE	119 SF
C122	RESTROOM / SHOWER	103 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF

ROOM LEGEND - FIRST FLOOR UNIT F

ROOM NO.	ROOM NAME	AREA (SF)
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF

ROOM LEGEND - FIRST FLOOR UNIT E

ROOM NO.	ROOM NAME	AREA (SF)
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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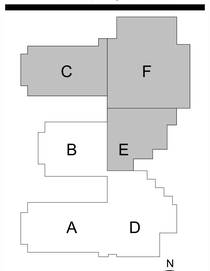

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

FIRST FLOOR FIRE PROTECTION PLAN - NORTH

FP102

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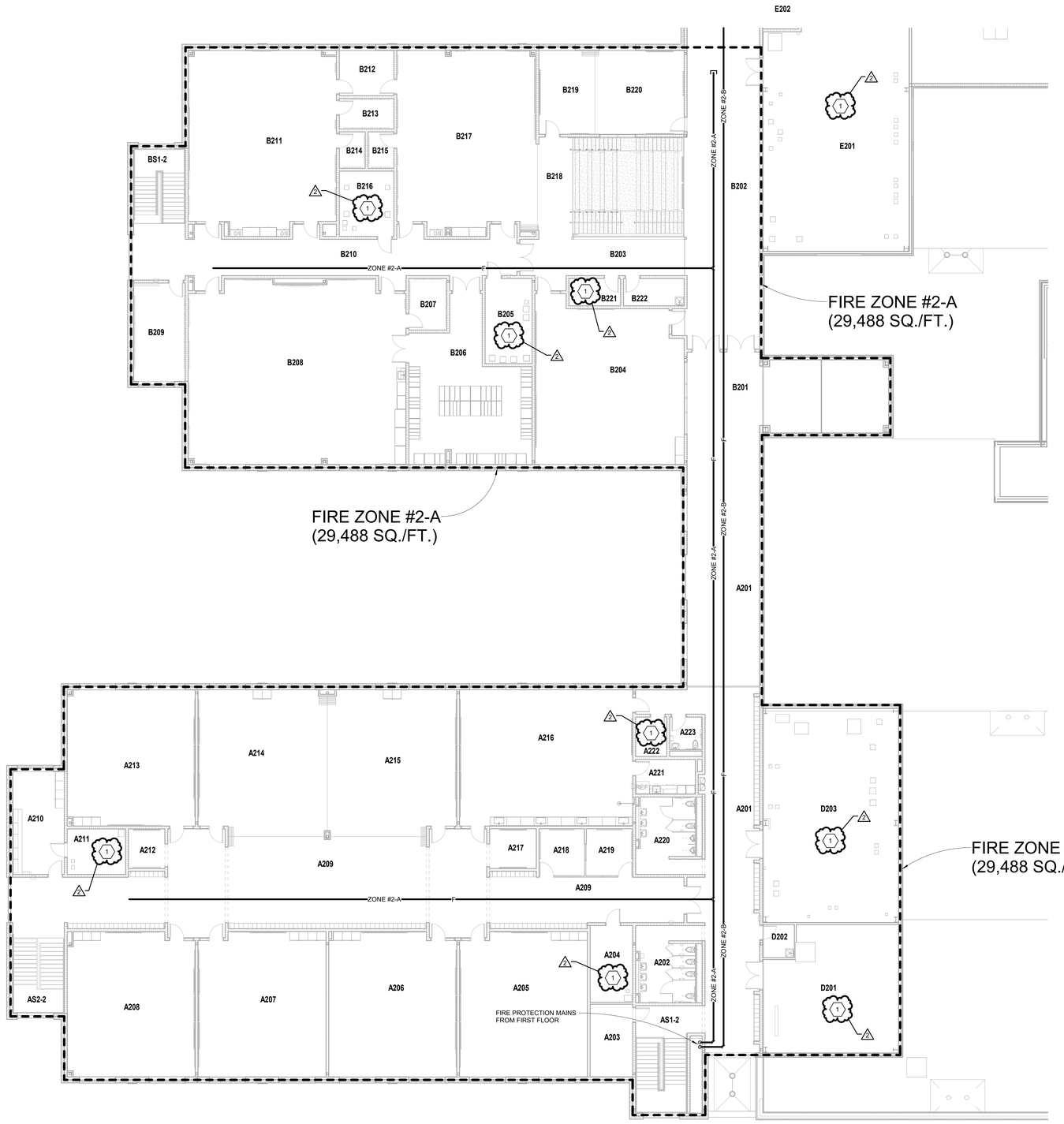

SECOND FLOOR FIRE PROTECTION PLAN - SOUTH

SCALE: 3/32" = 1'-0"

ROOM LEGEND - SECOND FLOOR UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A2	COMPUTER LAB	Not Placed
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	891 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2366 SF
A210	TEACHERS	258 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1147 SF
A217	HUDDLE	93 SF
A218	SGI	107 SF
A219	SGI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF

ROOM LEGEND - SECOND FLOOR UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF

ROOM LEGEND - SECOND FLOOR UNIT D

ROOM NO.	ROOM NAME	AREA (SF)
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF

ROOM LEGEND - SECOND FLOOR UNIT E

ROOM NO.	ROOM NAME	AREA (SF)
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

SECOND FLOOR FP PLAN NOTES - NORTH

1 ORDINARY HAZARD AREA.

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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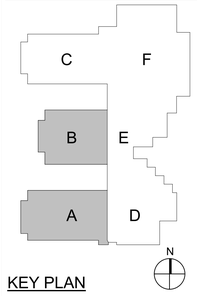

KEY PLAN

Construction Documents

MARK Z. HOOF REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

SECOND FLOOR FIRE PROTECTION PLAN - SOUTH

FP201

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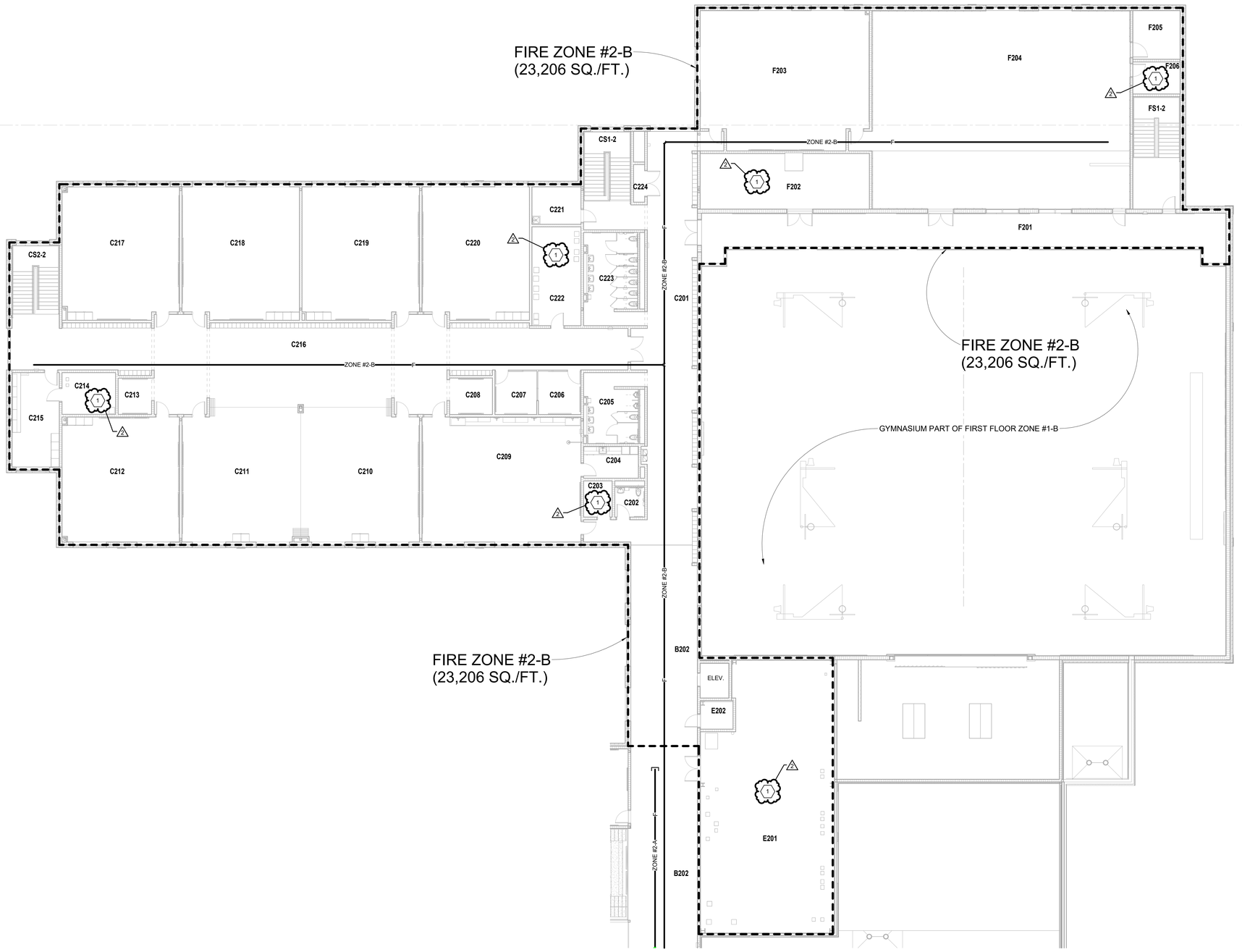

SECOND FLOOR FIRE PROTECTION PLAN - NORTH

SCALE: 3/32" = 1'-0"

ROOM LEGEND - SECOND FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF

ROOM LEGEND - SECOND FLOOR UNIT E		
ROOM NO.	ROOM NAME	AREA (SF)
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

ROOM LEGEND - SECOND FLOOR UNIT F		
ROOM NO.	ROOM NAME	AREA (SF)
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	FITNESS	2985 SF
F205	STORAGE	133 SF
F206	ELECTRICAL	57 SF

SECOND FLOOR FP PLAN NOTES - SOUTH

1 ORDINARY HAZARD AREA.

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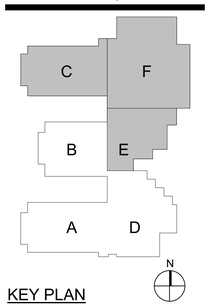

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

SECOND FLOOR FIRE PROTECTION PLAN - NORTH

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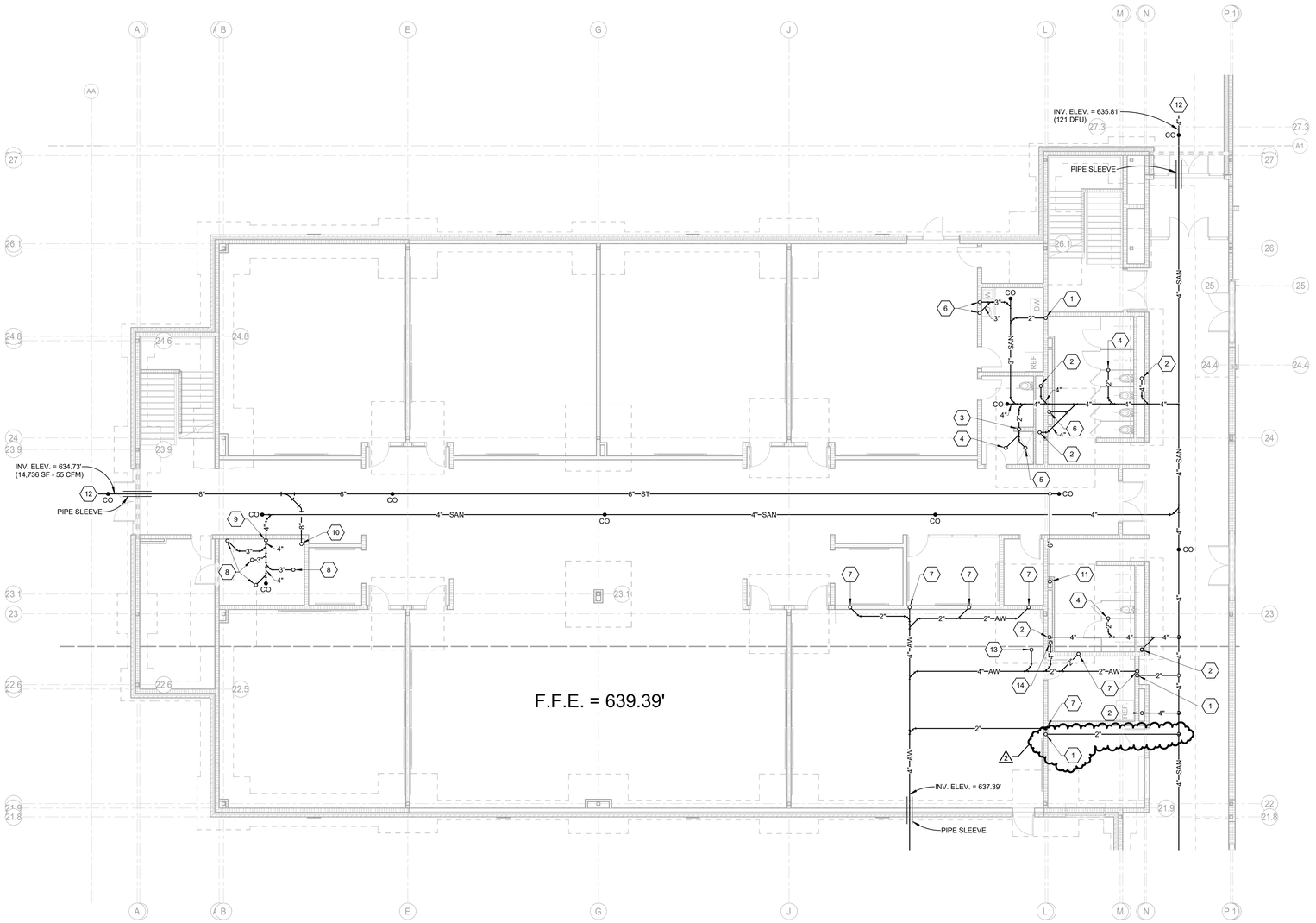

FOUNDATION PLUMBING PLAN - UNIT C

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

FOUNDATION PLAN NOTES - UNIT C

1 2" WASTE FROM ABOVE.
2 4" WASTE FROM ABOVE.
3 1 1/2" VENT UP.
4 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
5 2" WASTE WITH DEEP SEAL P-TRAP FROM SHOWER DRAIN ABOVE.
6 3" WASTE FROM ABOVE.
7 2" ACID WASTE FROM ABOVE.
8 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
9 2" VENT UP.
10 8" STORM FROM ABOVE.
11 6" STORM FROM ABOVE.
12 REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
13 4" ACID WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
14 4" ACID WASTE FROM ABOVE.

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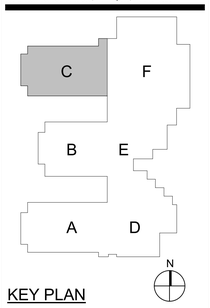

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	11-11-2025
2	Addendum #4	11-24-2025

VERIFICATION NOTE

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FOUNDATION PLUMBING PLAN - UNIT C

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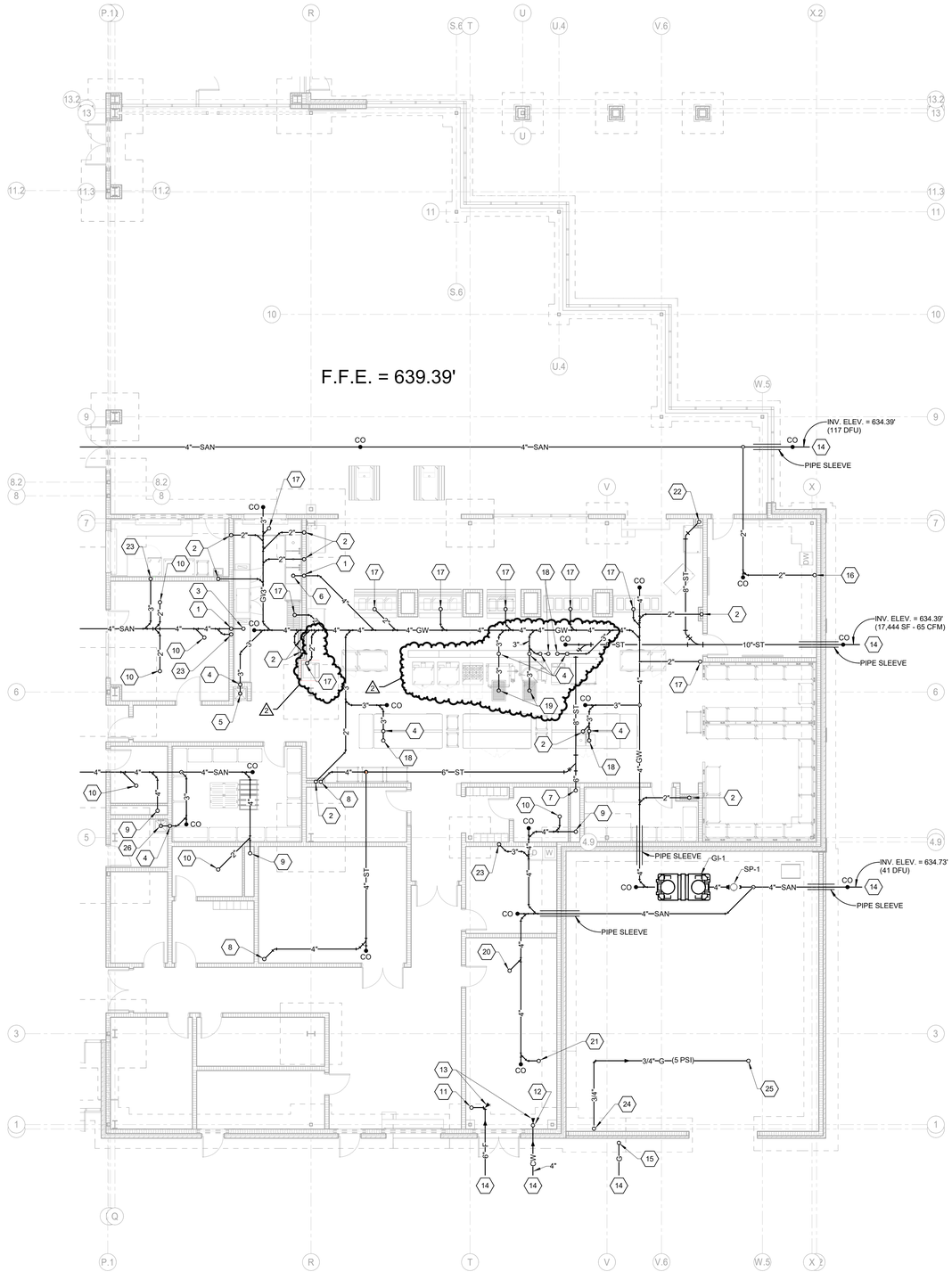

FOUNDATION PLUMBING PLAN - UNIT D

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

FOUNDATION PLAN NOTES - UNIT D

1 2" VENT UP.
2 2" GREASE WASTE FROM ABOVE.
3 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.
4 1 1/2" VENT UP.
5 3" GREASE WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.
6 4" GREASE WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.
7 6" STORM FROM ABOVE.
8 4" STORM FROM ABOVE.
9 4" WASTE FROM ABOVE.
10 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
11 INCOMING 6" FIRE PROTECTION SUPPLY UP. PROVIDE THRUST BLOCK AT PIPE RISE.
12 INCOMING 4" DOMESTIC COLD WATER UP. PROVIDE THRUST BLOCK AT PIPE RISE.
13 PIPE THRUST BLOCK.
14 REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
15 INCOMING NATURAL GAS SUPPLY UP (BY GAS CO.)
16 2" WASTE FROM ABOVE.
17 2" GREASE WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
18 3" GREASE WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.
19 CONNECT 3" GREASE WASTE WITH DEEP SEAL P-TRAP TO K.E.C. PROVIDED FLOOR TROUGH.
20 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
21 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.
22 8" STORM FROM ABOVE.
23 3" WASTE FROM ABOVE.
24 3/4" GAS (5 PSI) FROM ABOVE.
25 3/4" GAS (5 PSI) UP TO EMERGENCY GENERATOR.
26 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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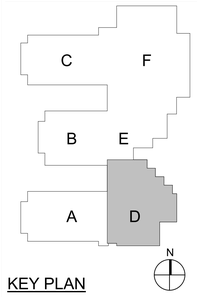

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	11-11-2025
2	Addendum #4	11-24-2025

FOUNDATION PLUMBING PLAN - UNIT D

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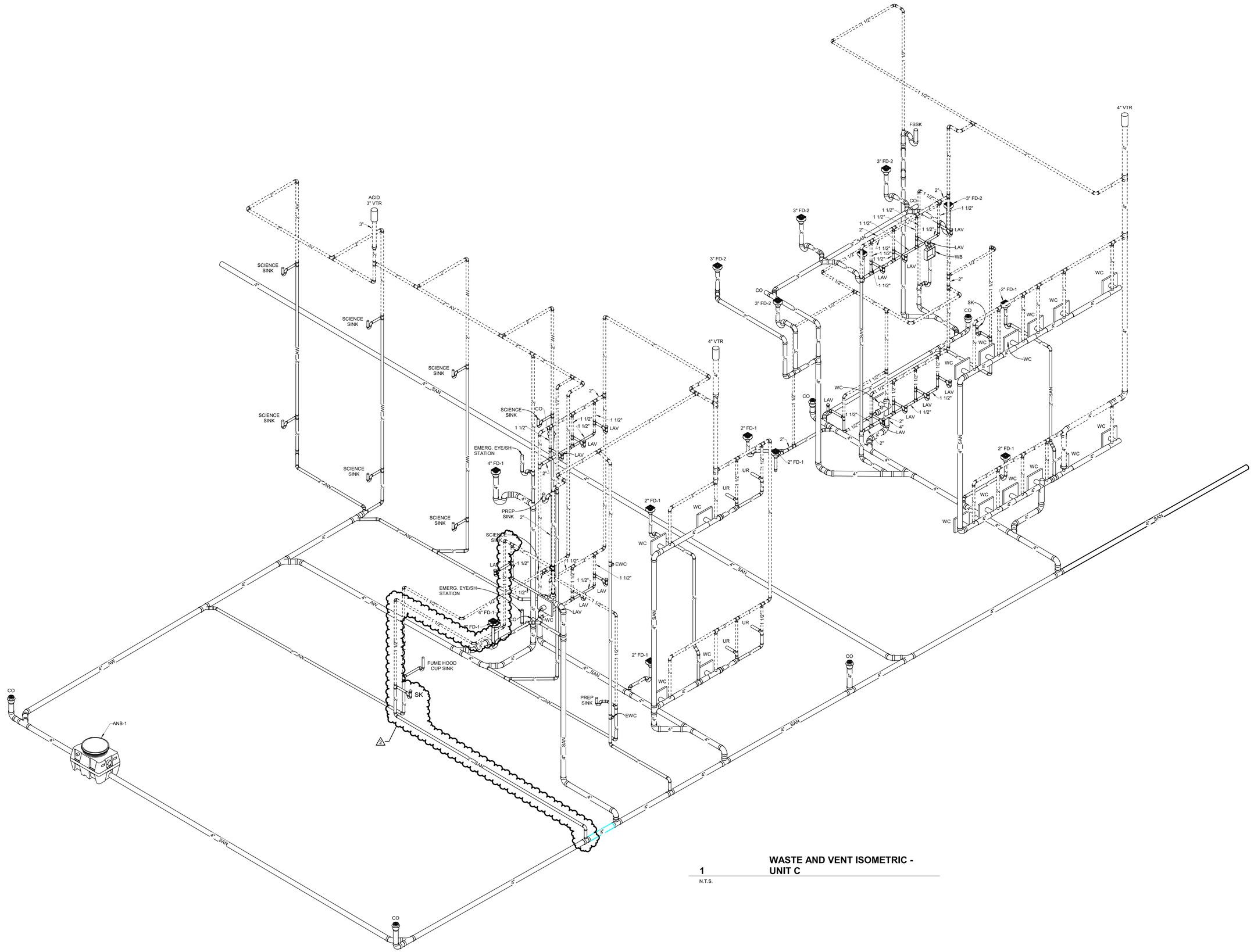

1 WASTE AND VENT ISOMETRIC - UNIT C

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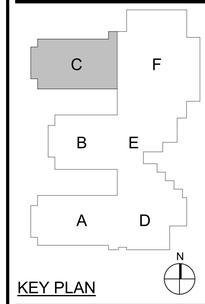

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: Author

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

WASTE AND VENT ISOMETRICS - UNIT C

P-303

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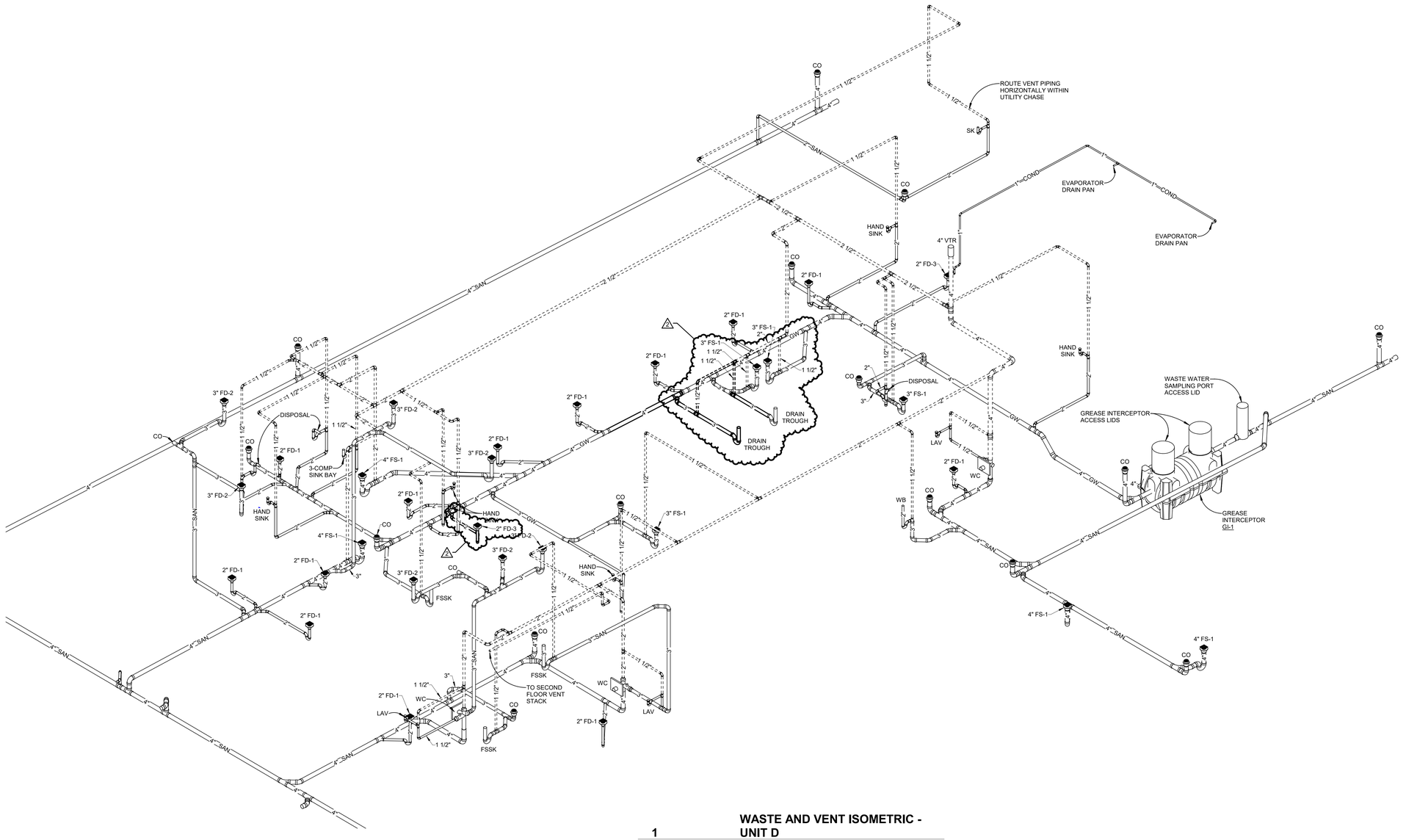

1 WASTE AND VENT ISOMETRIC - UNIT D

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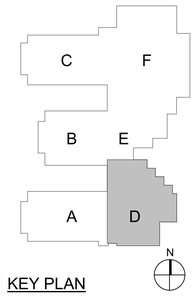


KEY PLAN

Construction Documents

MARK Z. HOOF REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

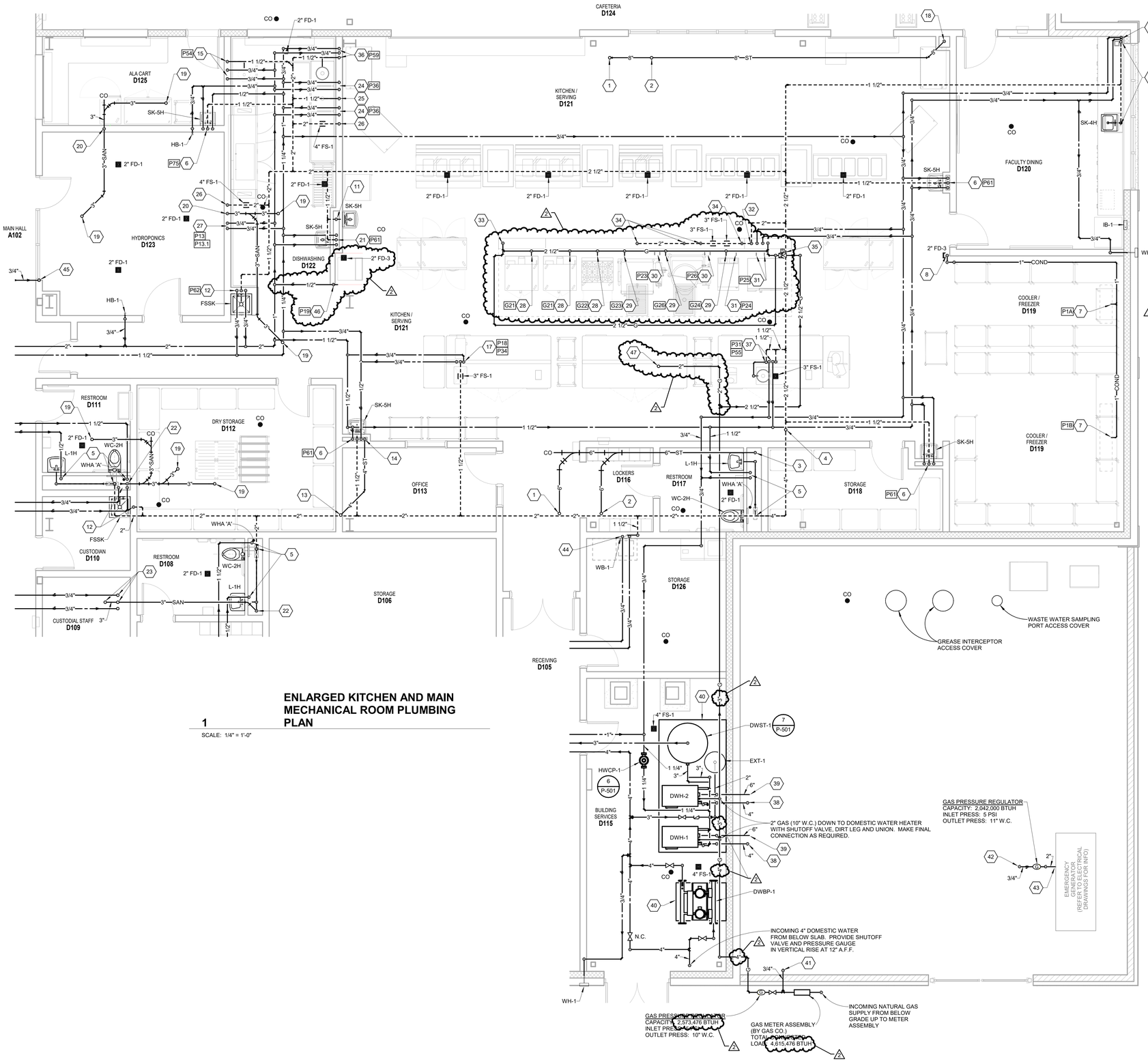
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	11-11-2025
2	Addendum #4	11-24-2025

WASTE AND VENT ISOMETRICS - UNIT D

P-304



ENLARGED KITCHEN AND MAIN MECHANICAL ROOM PLUMBING PLAN

1

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

ENLARGED PLAN NOTES P401

37 3/4" HOT AND COLD WATER DOWN IN STAINLESS STEEL CHASE. EXTEND TO FAUCET THRU POINT-OF-USE TMV. SET OUTLET TEMP OF TMV AT 110 DEG. F. MAKE FINAL CONNECTION AS REQUIRED. EXTEND COLD WATER TO DISPOSER THRU KEC PROVIDED VACUUM BREAKER. MAKE FINAL CONNECTION AS REQUIRED. 2" WASTE FROM DISPOSER DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING. TERMINATE INDIRECT WASTE OVER FLOOR SINK WITH AIR GAP.

38 4" WATER HEATER INTAKE THRU EXTERIOR WALL. TERMINATE WITH 90 DEG. ELBOW TURNED DOWN WITH BUG SCREEN. SEAL WALL PENETRATION WEATHERTIGHT AND AS REQUIRED.

39 6" WATER HEATER EXHAUST THRU EXTERIOR WALL. TERMINATE WITH BUG SCREEN. SEAL WALL PENETRATION WEATHERTIGHT AND AS REQUIRED.

40 CONCRETE EQUIPMENT PAD. REFR TO SPECIFICATIONS FOR MORE INFORMATION.

41 3/4" GAS (5 PSI) DOWN TO BELOW GRADE. PROVIDE SHUTOFF VALVE AT +12" A.F.G. PROVIDEGAS PIPE MATERIAL TRANSITION AS INDICATED ON GAS PIPE TRANSITION MATERIAL DETAIL ON DRAWING P-501.

42 3/4" GAS (5 PSI) UP FROM BELOW GRADE. PROVIDE GAS PIPE MATERIAL TRANSITION AS INDICATED ON GAS PIPE TRANSITION MATERIAL AT EQUIPMENT DETAIL ON DRAWING P-501.

43 CONNECT 2" GAS (11" W.C.) TO EMERGENCY GENERATOR WITH SHUTOFF VALVE, MIN. 6" DIRT LEG AND UNION. MAKE FINAL CONNECTION AS REQUIRED.

44 3/4" HOT AND COLD WATER DOWN TO WASHER SUPPLY BOX. 3" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING. PLUG WASHER BOX OUTLET FOR TEMPORARY CLOSURE. WASHER SUPPLY BOX IS FOR FUTURE USE.

45 3/4" COLD WATER UP

46 1/2" COLD WATER DOWN TO KEC PROVIDED WATER FILTRATION SYSTEM. MAKE CONNECTION AS REQUIRED. EXTEND FILTERED WATER THRU VACUUM BREAKER TO ICE MAKER SUPPLY CONNECTION. MAKE FINAL CONNECTION(S) AS REQUIRED. TERMINATE INDIRECT WASTE FROM ICE BIN/MACHINE OVER FLOOR SINK WITH AIR GAP.

47 2" GAS (10" W.C.) UP THRU ROOF. EXTEND TO ROOFTOP MAKE-UP AIR UNIT WITH SHUTOFF VALVE, MIN. 6" DIRT LEG AND UNION. REFER TO FOODSERVICE EQUIPMENT DRAWINGS FOR EXACT LOCATION.

ENLARGED PLAN NOTES P401

1 6" STORM FROM ROOF DRAIN ABOVE.

2 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.

3 6" STORM DOWN TO BELOW SLAB.

4 4" VENT UP TO 4" VENT THRU ROOF.

5 1 1/2" COLD WATER AND 1/2" HOT WATER DOWN IN CHASE. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION. 4" WASTE DOWN TO BELOW SLAB, 4" VENT UP TO ABOVE CEILING.

6 1/2" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

7 CONNECT 1" CONDENSATE TO WALK-IN COOLER/FREEZER EVAPORATOR COIL DRAIN PAN.

8 TERMINATE 1" CONDENSATE DRAIN OVER FLOOR DRAIN WITH P-TRAP ASSEMBLY AND AIR GAP.

9 3/4" HOT AND COLD WATER DOWN INTO UTILITY CHASE. ROUTE PIPING ALONG INSIDE WALL OF CHASE AND EXTEND TO SINK. MAKE FINAL CONNECTIONS AS REQUIRED. EXTEND 1/2" COLD WATER TO ICE MAKER SUPPLY BOX. MAKE FINAL CONNECTION AS REQUIRED. EXTEND 1/2" COLD WATER TO UNDERCOUNTER DISHWASHER. ROUTE DRAIN FROM DISHWASHER TO SINK TAILPIECE DRAIN CONNECTION BARB FITTING THRU ANTI-SIPHON LOOP. SUPPORT PIPING WITHIN CHASE AS REQUIRED.

10 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP INTO UTILITY CHASE. ROUTE VENT PIPING AS HIGH AS POSSIBLE. 2" VENT UP TO ABOVE CEILING.

11 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

12 3/4" HOT AND COLD WATER WITH SHUTOFF VALVES AND CHECK VALVES IN SUPPLIES DOWN TO MOP BASIN FAUCET. 1 1/2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.

13 4" STORM FROM ABOVE.

14 4" STORM DOWN TO BELOW SLAB.

15 3/4" HOT AND COLD WATER DOWN TO FAUCET. MAKE FINAL CONNECTION AS REQUIRED. EXTEND COLD WATER TO DISPOSER THRU KEC PROVIDED VACUUM BREAKER. MAKE FINAL CONNECTION AS REQUIRED. 2" WASTE FROM DISPOSER DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

17 3/4" HOT AND COLD WATER DOWN IN STAINLESS STEEL CHASE. EXTEND TO FAUCET. MAKE FINAL CONNECTION AS REQUIRED. 1 1/2" VENT FROM BELOW SLAB UP TO ABOVE CEILING. TERMINATE INDIRECT WASTE OVER FLOOR SINK WITH AIR GAP. EXTEND 1/2" COLD WATER TO HOT WATER DISPENSER. MAKE FINAL CONNECTION AS REQUIRED.

18 8" STORM DOWN TO BELOW SLAB.

19 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

20 3" WASTE DOWN TO BELOW SLAB.

21 1/2" HOT AND COLD WATER DOWN. EXTEND 1/2" HOT AND COLD WATER WITHIN CHASE TO BOTH LAVATORIES AND MAKE FINAL CONNECTIONS AS REQUIRED. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

22 3" WASTE DOWN INTO CHASE. CONNECT TO WATER CLOSET CARRIER.

23 3/4" HOT AND COLD WATER WITH SHUTOFF VALVES AND CHECK VALVES IN SUPPLIES UP TO MOP BASIN FAUCET. 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE. 1 1/2" VENT UP.

24 3/4" HOT AND COLD WATER DOWN TO FAUCET. MAKE FINAL CONNECTIONS AS REQUIRED.

25 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

26 2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.

27 3/4" HOT AND COLD WATER DOWN TO DISHMACHINE AND DRAIN WATER TEMPERING VALVE. MAKE FINAL CONNECTIONS AS REQUIRED. TERMINATE DISHMACHINE INDIRECT WASTE OVER FLOOR SINK WITH AIR GAP.

28 EXTEND 1" GAS TO EQUPMENT THRU SHUTOFF VALVE AND KEC PROVIDED FLEXIBLE GAS CONNECTION KIT. MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.

29 EXTEND 3/4" GAS TO EQUPMENT THRU SHUTOFF VALVE AND KEC PROVIDED FLEXIBLE GAS CONNECTION KIT. MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.

30 EXTEND 1/2" HOT AND COLD WATER FROM UTILITY DISTRIBUTION SYSTEM CONNECTION TO EQUIPMENT. MAKE FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED.

31 EXTEND 1/2" COLD WATER FROM UTILITY DISTRIBUTION SYSTEM CONNECTION TO EQUIPMENT. MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.

32 2" VENT UP FROM UDS. 3/4" HOT AND COLD WATER. 2 1/2" GAS DOWN TO UDS CONNECTIONS. MAKE FINAL CONNECTIONS AS REQUIRED.

33 2 1/2" GAS UP FROM UDS TO ABOVE CEILING.

34 1 1/2" VENT UP TO BELOW UDS. CONNECT TO HORIZONTAL VENT HEADER.

35 EMERGENCY GAS SHUTOFF SOLENOID VALVE BELOW CEILING. INTERLOCK INTO COOKING HOOD FIRE SUPPRESSION SYSTEM. COORDINATE LOCATION WITH COOKING HOOD AND DUCTWORK.

36 3/4" HOT AND COLD WATER DOWN TO HOSE REEL THRU POINT-OF-USE TMV. SET OUTLET TEMP OF TMV AT 110 DEG. F. MAKE FINAL CONNECTION AS REQUIRED. EXTEND COLD WATER TO DISPOSER THRU KEC PROVIDED VACUUM BREAKER. MAKE FINAL CONNECTION AS REQUIRED. 2" WASTE FROM DISPOSER DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

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ARCHITECT

FANNING HOWEY

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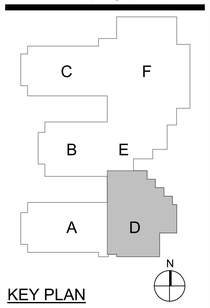

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	11-11-2025
2	Addendum #4	11-24-2025

ENLARGED PLUMBING PLANS

P-401

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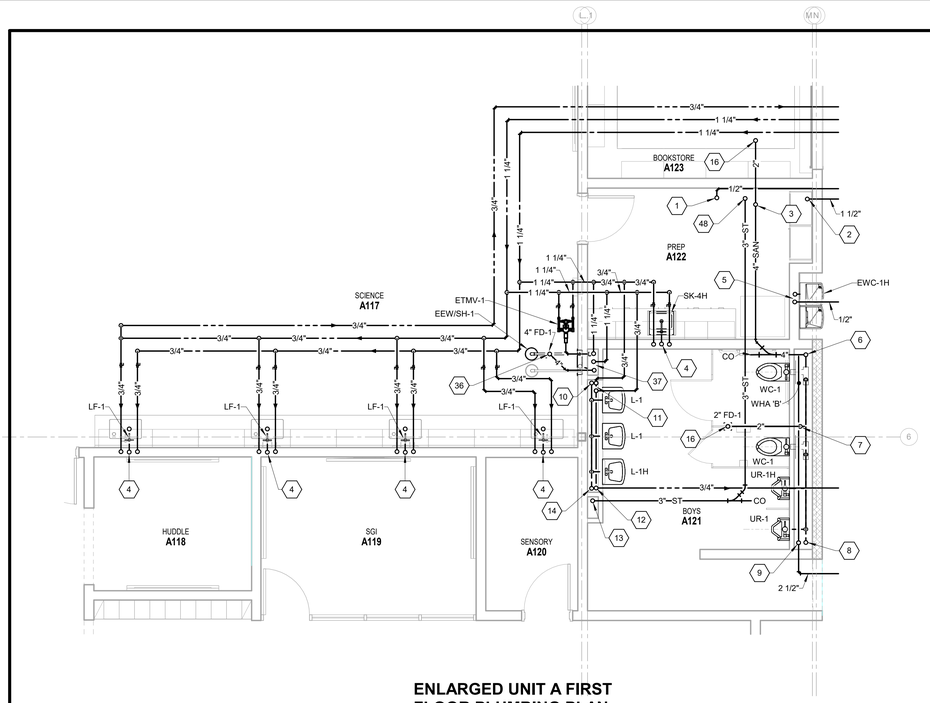
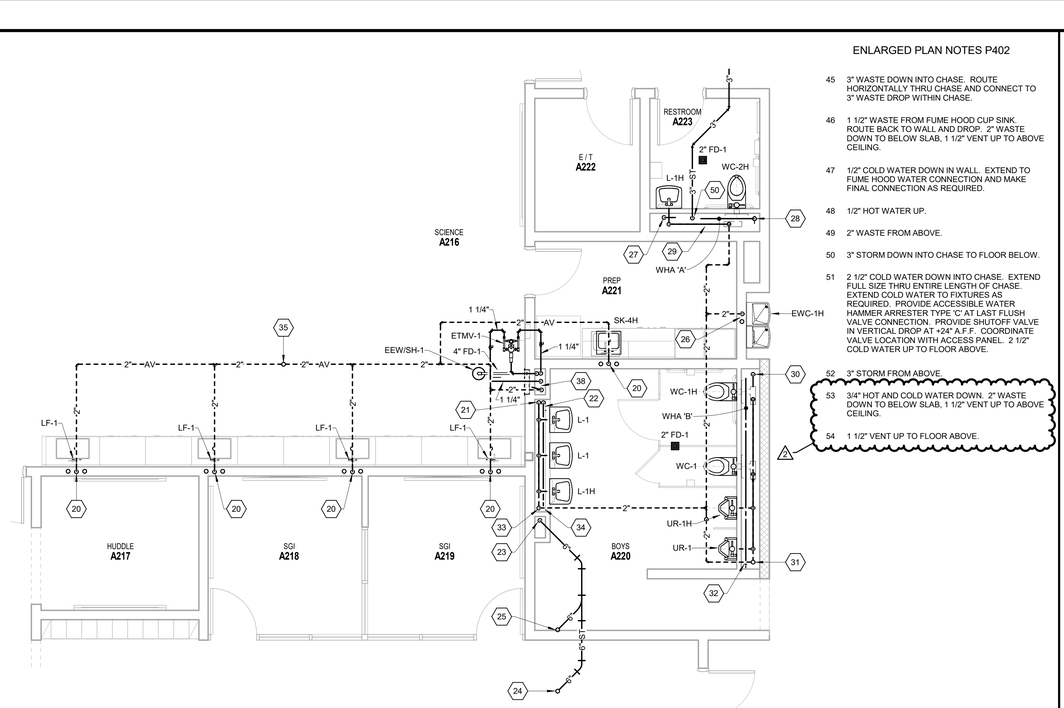


ENLARGED UNIT A FIRST FLOOR PLUMBING PLAN - NORTH

1

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



ENLARGED UNIT A SECOND FLOOR PLUMBING PLAN

2

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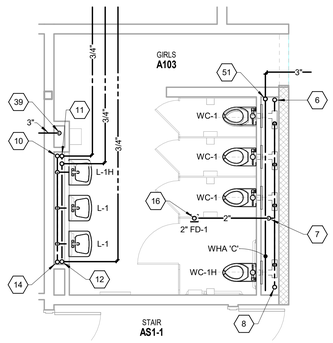
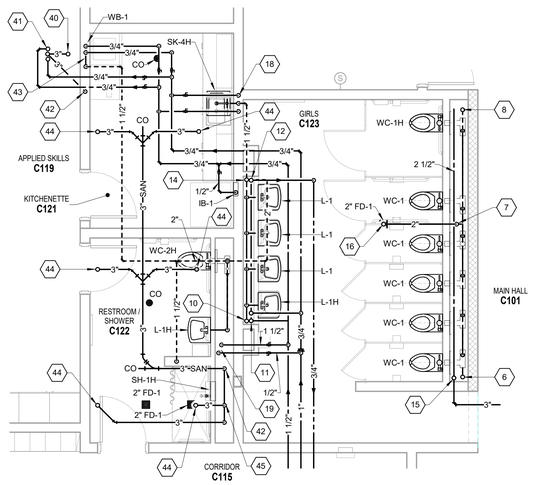


ENLARGED UNIT A FIRST FLOOR PLUMBING PLAN - SOUTH

3

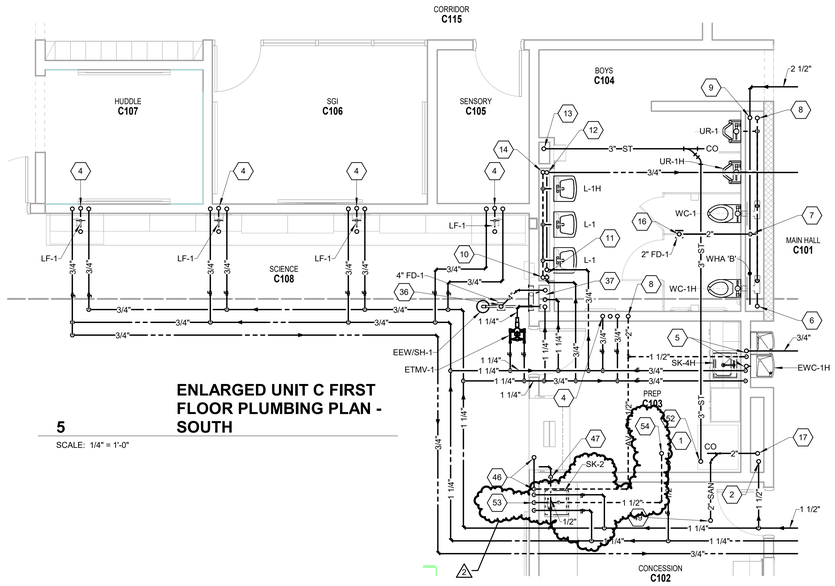
SCALE: 1/4" = 1'-0"



ENLARGED UNIT C FIRST FLOOR PLUMBING PLAN - NORTH

4

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



ENLARGED UNIT C FIRST FLOOR PLUMBING PLAN - SOUTH

5

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

ENLARGED PLAN NOTES P402

45 3" WASTE DOWN INTO CHASE. ROUTE HORIZONTALLY THRU CHASE AND CONNECT TO 3" WASTE DROP WITHIN CHASE.

46 1 1/2" WASTE FROM FUME HOOD CUP SINK. ROUTE BACK TO WALL AND DROP. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

47 1/2" COLD WATER DOWN IN WALL. EXTEND TO FUME HOOD WATER CONNECTION AND MAKE FINAL CONNECTION AS REQUIRED.

48 1/2" HOT WATER UP.

49 2" WASTE FROM ABOVE.

50 3" STORM DOWN INTO CHASE TO FLOOR BELOW.

51 2 1/2" COLD WATER DOWN INTO CHASE. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'C' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN VERTICAL DROP AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL. 2 1/2" COLD WATER UP TO FLOOR ABOVE.

52 3" STORM FROM ABOVE.

53 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

54 1 1/2" VENT UP TO FLOOR ABOVE.

ENLARGED PLAN NOTES P402

1 1/2" HOT WATER UP.

2 1 1/2" COLD WATER UP.

3 4" WASTE FROM ABOVE.

4 3/4" HOT AND COLD WATER UP AND DOWN. EXTEND HOT AND COLD WATER TO SINK AS REQUIRED. 2" ACID WASTE FROM ABOVE AND DOWN TO BELOW SLAB.

5 1/2" COLD WATER UP AND DOWN. EXTEND 1/2" COLD WATER TO EWC. 2" WASTE FROM ABOVE AND DOWN TO BELOW SLAB.

6 4" WASTE STACK FROM ABOVE AND DOWN TO BELOW SLAB.

7 2" WASTE DOWN INTO CHASE. CONNECT TO HORIZONTAL WASTE.

8 2" VENT UP TO FLOOR ABOVE.

9 2" COLD WATER DOWN INTO CHASE. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN VERTICAL DROP AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL. 2" COLD WATER UP TO FLOOR ABOVE.

10 2" WASTE FROM ABOVE, 3" WASTE DOWN TO BELOW SLAB.

11 3/4" HOT AND COLD WATER DOWN INTO CHASE. EXTEND 1/2" HOT AND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE SHUTOFF VALVES IN VERTICAL DROP AT +24" A.F.F. COORDINATE VALVE LOCATIONS WITH ACCESS PANEL. 3/4" HOT AND COLD WATER UP TO FLOOR ABOVE.

12 3/4" HOT WATER RETURN FROM FLOOR ABOVE.

13 6" STORM FROM ABOVE AND DOWN TO BELOW SLAB.

14 2" VENT UP TO FLOOR ABOVE.

15 2 1/2" COLD WATER DOWN INTO CHASE. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN VERTICAL DROP AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL. 2 1/2" COLD WATER UP TO FLOOR ABOVE.

16 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

17 4" WASTE FROM ABOVE AND DOWN TO BELOW SLAB.

18 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

19 1 1/2" COLD WATER AND 3/4" HOT WATER DOWN IN CHASE. EXTEND HOT AND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION.

20 3/4" HOT AND COLD WATER FROM BELOW. 2" ACID WASTE DOWN, 2" VENT UP TO ABOVE CEILING.

21 2" VENT FROM BELOW UP INTO CHASE.

22 3/4" HOT AND COLD WATER FROM BELOW. EXTEND 1/2" HOT AND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE SHUTOFF VALVES IN VERTICAL RISE AT +24" A.F.F. COORDINATE VALVE LOCATIONS WITH ACCESS PANEL.

23 6" STORM DOWN TO FLOOR BELOW.

24 6" STORM FROM ROOF DRAIN ABOVE.

25 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.

26 2" WASTE DOWN, 2" VENT UP TO ABOVE CEILING. 1/2" COLD WATER FROM BELOW. EXTEND TO FIXTURE AS REQUIRED.

27 1/2" HOT WATER FROM BELOW. EXTEND TO FIXTURE AS REQUIRED.

28 1 1/2" COLD WATER FROM BELOW. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL.

29 4" WASTE DOWN, 2" VENT UP TO ABOVE CEILING.

30 4" WASTE DOWN TO FLOOR BELOW.

31 4" VENT UP TO 4" VENT THRU ROOF.

32 2 1/2" COLD WATER FROM BELOW. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN VERTICAL DROP AT +24

33 2" VENT FROM BELOW UP TO ABOVE CEILING.

34 3/4" HOT WATER RETURN DOWN TO FLOOR BELOW.

35 2" ACID VENT UP TO 3" VENT THRU ROOF.

36 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

37 1 1/4" HOT AND COLD WATER UP. 1 1/4" 85 DEG. F. HOT WATER DOWN TO EMERGENCY EYEWASH/SHOWER. 4" WASTE FROM ABOVE AND DOWN TO FLOOR BELOW.

38 1 1/4" HOT AND COLD WATER FROM BELOW. 1 1/4" 85 DEG. F. HOT WATER DOWN TO EMERGENCY EYEWASH/SHOWER. 4" WAST DOWN TO FLOOR BELOW, 2" VENT UP. CONNECT TO LAVATORY VENT HEADER.

39 3" WASTE DOWN TO FLOOR BELOW.

40 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.

41 3/4" HOT AND COLD WATER UP. 3" WASTE DOWN, 1 1/2" VENT UP TO FLOOR ABOVE.

42 3" WASTE DOWN TO BELOW SLAB.

43 3/4" HOT AND COLD WATER DOWN TO WASHER SUPPLY BOX. 3" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

44 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.

VERIFICATION NOTE

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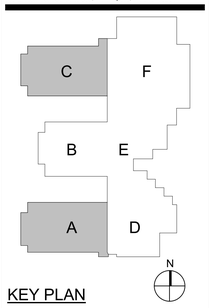

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum #4	11-24-2025

ENLARGED PLUMBING PLANS

P-402

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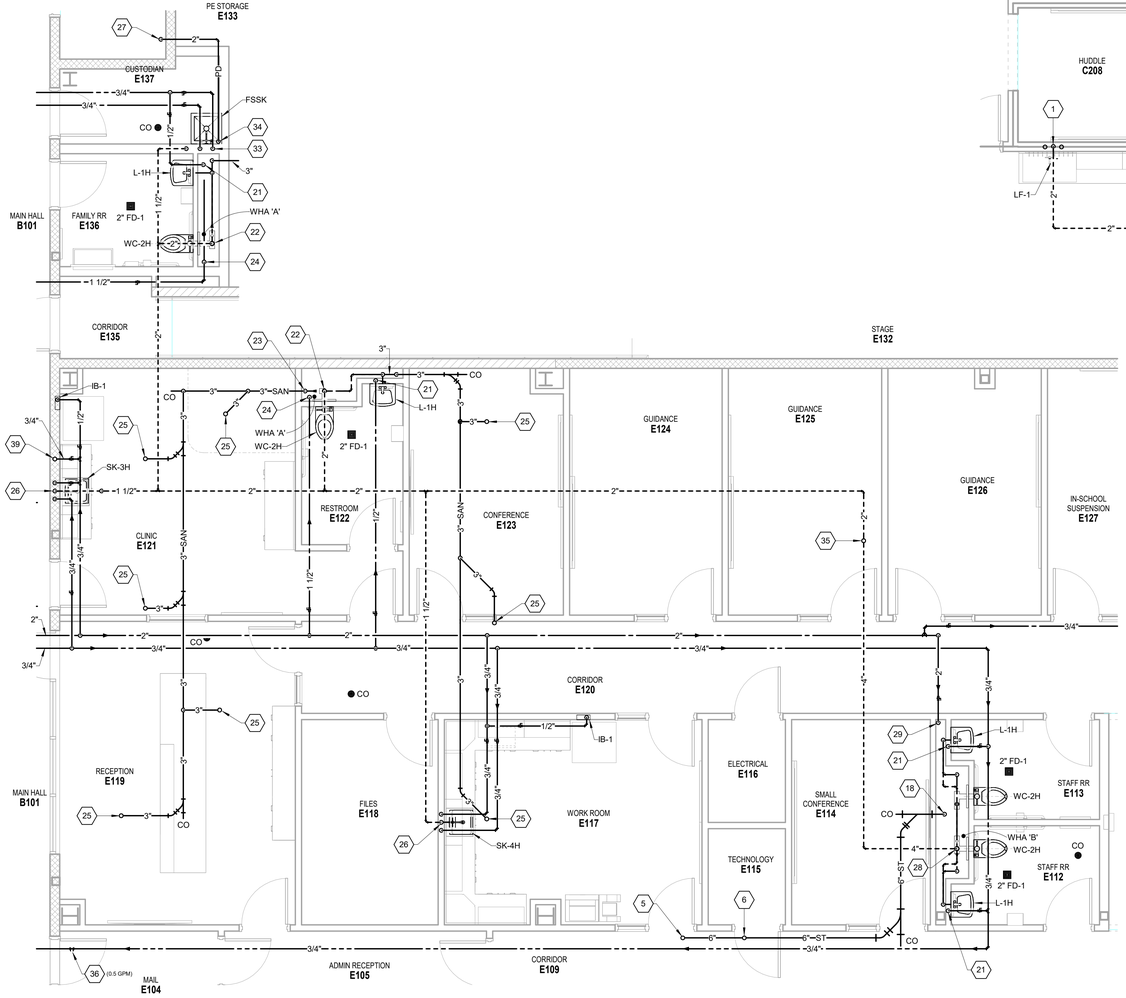

1 ENLARGED UNIT C SECOND FLOOR PLUMBING PLAN

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

2 ENLARGED UNIT E FIRST FLOOR PLUMBING PLAN

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

ENLARGED PLAN NOTES P403

1. 3/4" HOT AND COLD WATER FROM BELOW. 2" ACID WASTE DOWN, 2" VENT UP TO ABOVE CEILING.
2. 2" VENT FROM BELOW UP INTO CHASE.
3. 3/4" HOT AND COLD WATER FROM BELOW, EXTEND 1/2" HOT AND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE SHUTOFF VALVES IN VERTICAL RISE AT +24" A.F.F. COORDINATE VALVE LOCATIONS WITH ACCESS PANEL.
4. 6" STORM DOWN TO FLOOR BELOW.
5. 6" STORM FROM ROOF DRAIN ABOVE.
6. 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.
7. 2" WASTE DOWN, 2" VENT UP TO ABOVE CEILING. 1/2" COLD WATER FROM BELOW. EXTEND TO FIXTURE AS REQUIRED.
8. 1/2" HOT WATER FROM BELOW. EXTEND TO FIXTURE AS REQUIRED.
9. 1 1/2" COLD WATER FROM BELOW. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL.
10. 4" WASTE DOWN TO FLOOR BELOW, 2" VENT UP TO ABOVE CEILING.
11. 4" WASTE DOWN TO FLOOR BELOW.
12. 4" VENT FROM BELOW AND UP TO 4" VENT THRU ROOF.
13. 2 1/2" COLD WATER FROM BELOW. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN PIPE RISE AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL.
14. 2" VENT UP TO ABOVE CEILING.
15. 3/4" HOT WATER RETURN DOWN TO FLOOR BELOW.
16. 2" ACID VENT UP TO 3" VENT THRU ROOF.
17. 4" VENT UP FROM BELOW UP INTO CHASE.
18. 6" STORM DOWN TO BELOW SLAB.
21. 1/2" HOT WATER DOWN IN CHASE. EXTEND TO FIXTURE AS REQUIRED. EXTEND LAVATORY WASTE AND VENT AND CONNECT TO WATER CLOSET CARRIER.
22. 4" WASTE DOWN TO BELOW SLAB, 2" VENT UP TO ABOVE CEILING.
23. 3" WASTE DOWN IN CHASE. CONNECT TO WATER CLOSET CARRIER.
24. 1 1/2" COLD WATER DOWN IN CHASE. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION.
25. 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
26. 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
27. 2" ELEVATOR SUMP PUMP DISCHARGE UP TO ABOVE CEILING.
28. 4" WASTE DOWN TO BELOW SLAB, 4" VENT UP TO ABOVE CEILING.
29. 2" COLD WATER DOWN IN CHASE. ROUTE COLD WATER FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'B' AT LAST FLUSH VALVE CONNECTION.
30. 2 1/2" COLD WATER FROM BELOW. EXTEND FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND COLD WATER TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'C' AT LAST FLUSH VALVE CONNECTION. PROVIDE SHUTOFF VALVE IN PIPE RISE AT +24" A.F.F. COORDINATE VALVE LOCATION WITH ACCESS PANEL.
31. 3/4" HOT AND COLD WATER FROM BELOW UP TO MOP BASIN FAUCET. 1 1/2" FROM FLOOR BELOW UP TO ABOVE CEILING.
32. 1 1/4" HOT AND COLD WATER FROM BELOW. 1 1/4" 85 DEG. F. HOT WATER DOWN TO EMERGENCY EYEWASH/SHOWER. 4" WAST DOWN TO FLOOR BELOW, 2" VENT UP. CONNECT TO LAVATORY VENT HEADER.
33. 3/4" HOT AND COLD WATER DOWN TO MOP BASIN FAUCET. 1 1/2" VENT UP FROM BELOW SLAB TO ABOVE CEILING.
34. 2" ELEVATOR SUMP PUMP DISCHARGE DOWN. TERMINATE OVER MOP BASIN WITH AIR GAP.
35. 4" VENT UP TO 4" VENT THRU ROOF.
36. HOT WATER RETURN BALANCE STATION. SET TO GPM INDICATED. REFER TO DETAIL ON DRAWING P-501 FOR MORE INFORMATION.
37. 3" STORM DOWN INTO CHASE TO FLOOR BELOW.
38. 2" VENT FROM BELOW UP TO ABOVE CEILING.
39. 3/4" COLD WATER UP.
40. 1 1/2" VENT FROM FLOOR BELOW UP INTO CHASE. CONNECT TO VENT HEADER WITHIN CHASE.

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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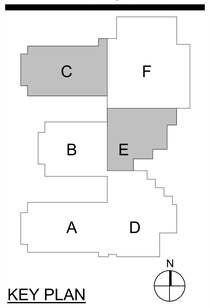

KEY PLAN

Construction Documents

MARK Z. HOPE REGISTERED No. PE 12200301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	11-11-2025
2	Addendum #4	11-24-2025

ENLARGED PLUMBING PLANS

P-403

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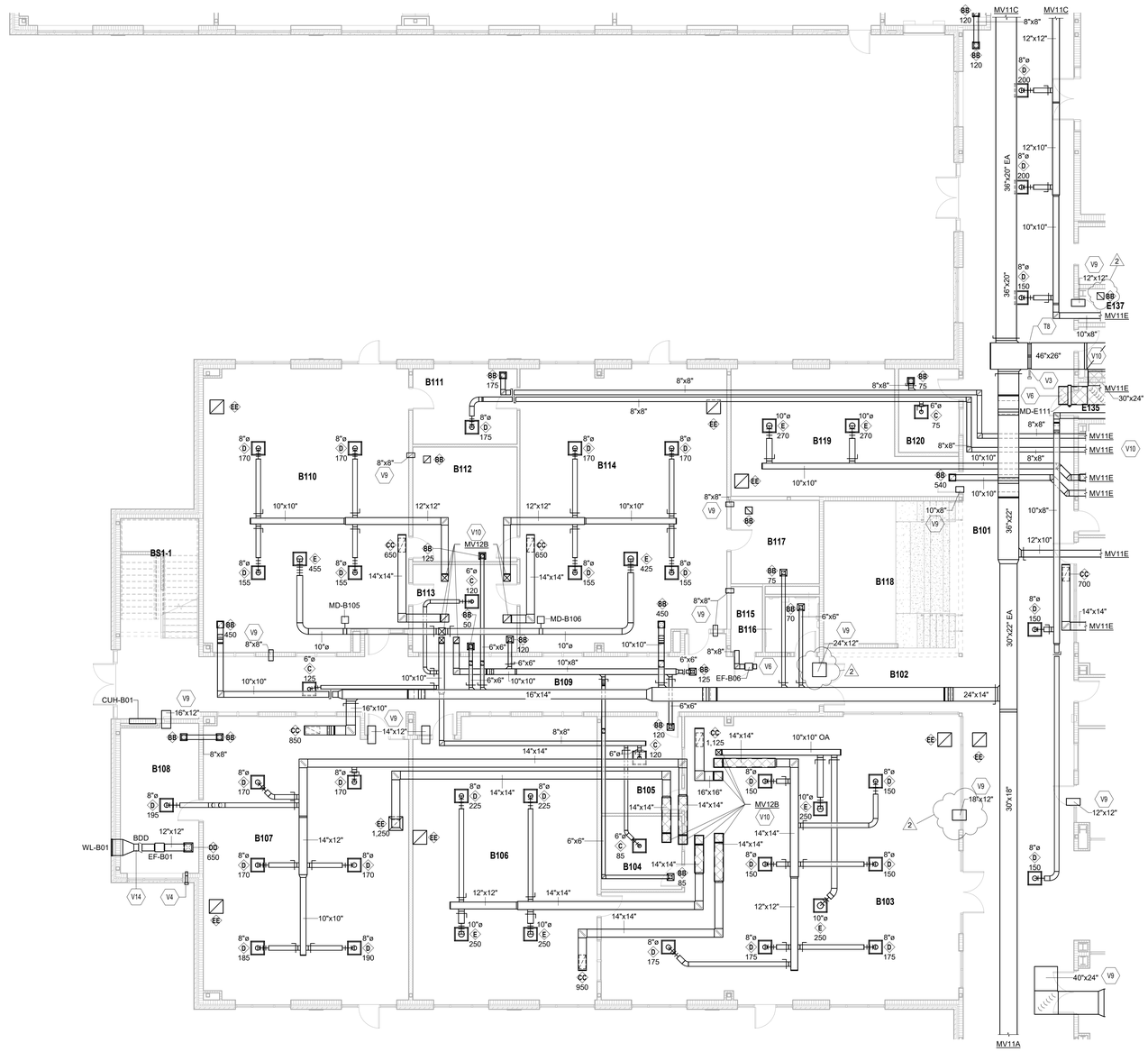

FIRST FLOOR VENTILATION PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
D124	CAFETERIA	4442 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E119	RECEPTION	301 SF
E121	CLINIC	274 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
V3	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION AND/OR FIRE DAMPER. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
V4	KILN VENT DUCTWORK ROUTED THROUGH EXTERIOR WALL. COORDINATE EXACT LOCATION/ELEVATION WITH ALL TRADES. DUCTWORK SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION. DUCT SIZE AND INSTALLATION SHALL BE ACCORDING TO KILN VENT MANUFACTURER'S REQUIREMENTS. TERMINATE WITH GALVANIZED STEEL HOODED WALL CAP WITH SCREEN. PAINT WALL CAP TO MATCH EXTERIOR WALL.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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The New Wallace Aylesworth Middle School

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ARCHITECT

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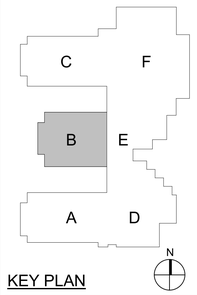

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

FIRST FLOOR VENTILATION PLAN - UNIT B

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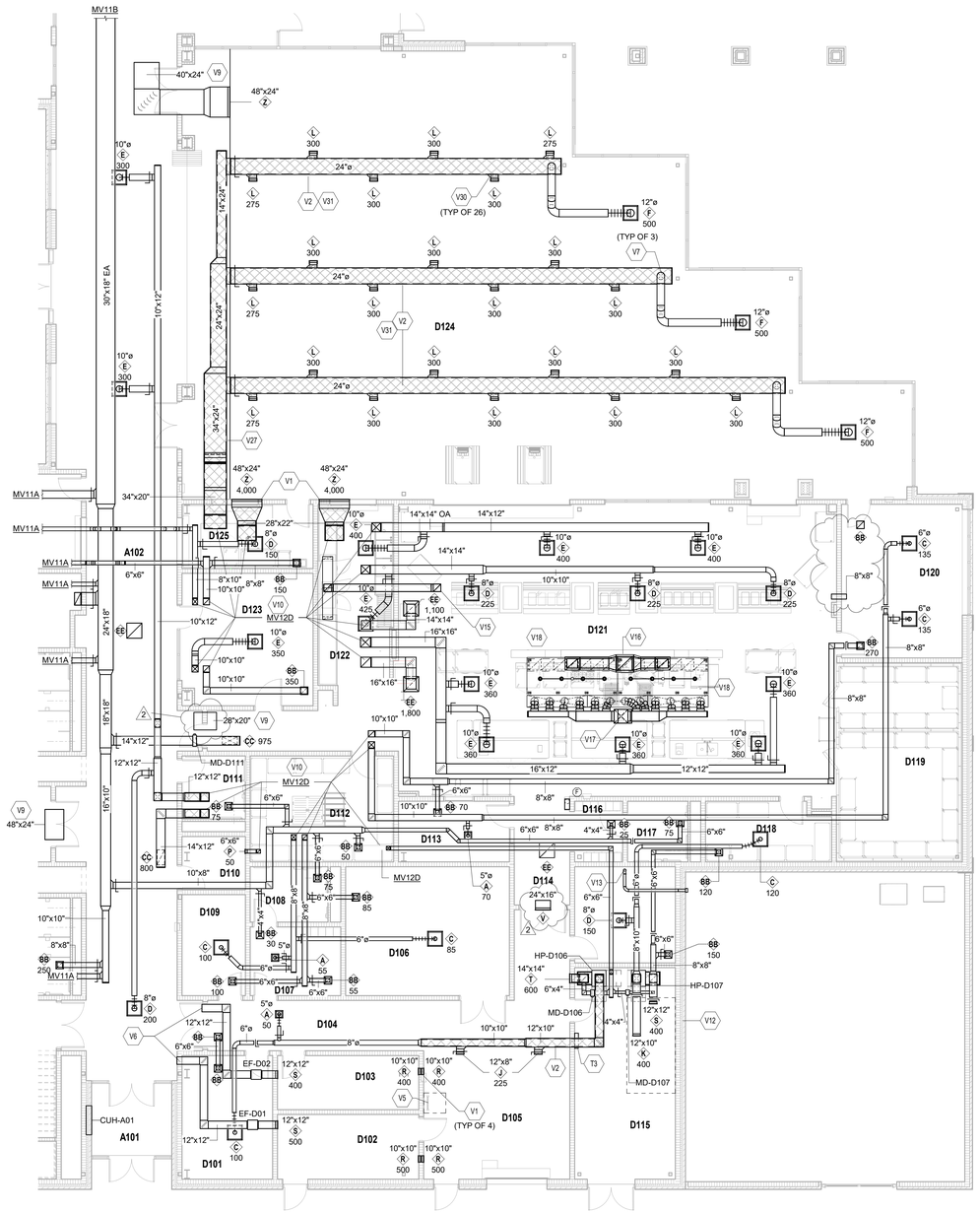

FIRST FLOOR VENTILATION PLAN - UNIT D

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
A103	GIRLS	217 SF
A110	CORRIDOR	2370 SF
A121	BOYS	217 SF
A122	PREP	137 SF
A123	BOOKSTORE	183 SF
AS1-1	STAIR	262 SF
B101	MAIN HALL	2209 SF
B103	MEDIA CENTER	1827 SF
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2365 SF
D122	DISHWASHING	236 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
V1	PAINT AIR DEVICES TO COLOR SELECTED BY ARCHITECT.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V5	LOCATION OF ROOF ACCESS LADDER. ALL DUCTWORK, PIPING, WIRING, ETC. TO BE ROUTED OUTSIDE THIS AREA.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V12	DOMESTIC WATER HEATER FLUE AND INTAKE AIR DUCTWORK IN AREA TO BE BY DIVISION 22.
V13	APPROXIMATE LOCATION OF WASHER/DRYER PROVIDED BY OWNER. 4" DIAMETER VENT ROUTED FROM DRYER LOCATION TO EXTERIOR WALL. TERMINATE DUCT WITH PREFABRICATED DRYER VENT WITH INTEGRAL DAMPER SIMILAR TO DryerWallVent BY INOVATE. CUSTOM COLOR TO BE SELECTED BY THE ARCHITECT. VENT ROUTED EXPOSED AGAINST THE WALL AND PAINTED TO MATCH ADJACENT WALL. SECURELY FASTEN TO THE WALL. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION ELBOW. REFER TO DETAIL.
V15	DISHWASHER EXHAUST SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE RELAY TO BMS.
V16	KITCHEN EXHAUST SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
V17	MAKE UP AIR SYSTEM BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
V18	KITCHEN HOOD BY OTHERS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
V27	TRANSITION DUCTWORK WITHIN BULKHEAD CAVITY. COORDINATE WITH ALL TRADES IN AREA.
V30	AIR DEVICE TO BE MOUNTED AT 60 DEGREES ON SUPPLY DUCT. AIR DEVICE TO BE INCLUDED WITH FACTORY MOUNTED DAMPER.
V31	CENTER MAIN DUCTWORK IN BETWEEN ADJACENT FLOATING ACOUSTIC CEILING GRID. COORDINATE INSTALLATION WITH ALL TRADES. FIELD VERIFY THAT DIFFUSERS DISCHARGE WILL BE BELOW CEILING TILE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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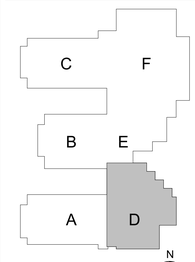

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

FIRST FLOOR VENTILATION PLAN - UNIT D

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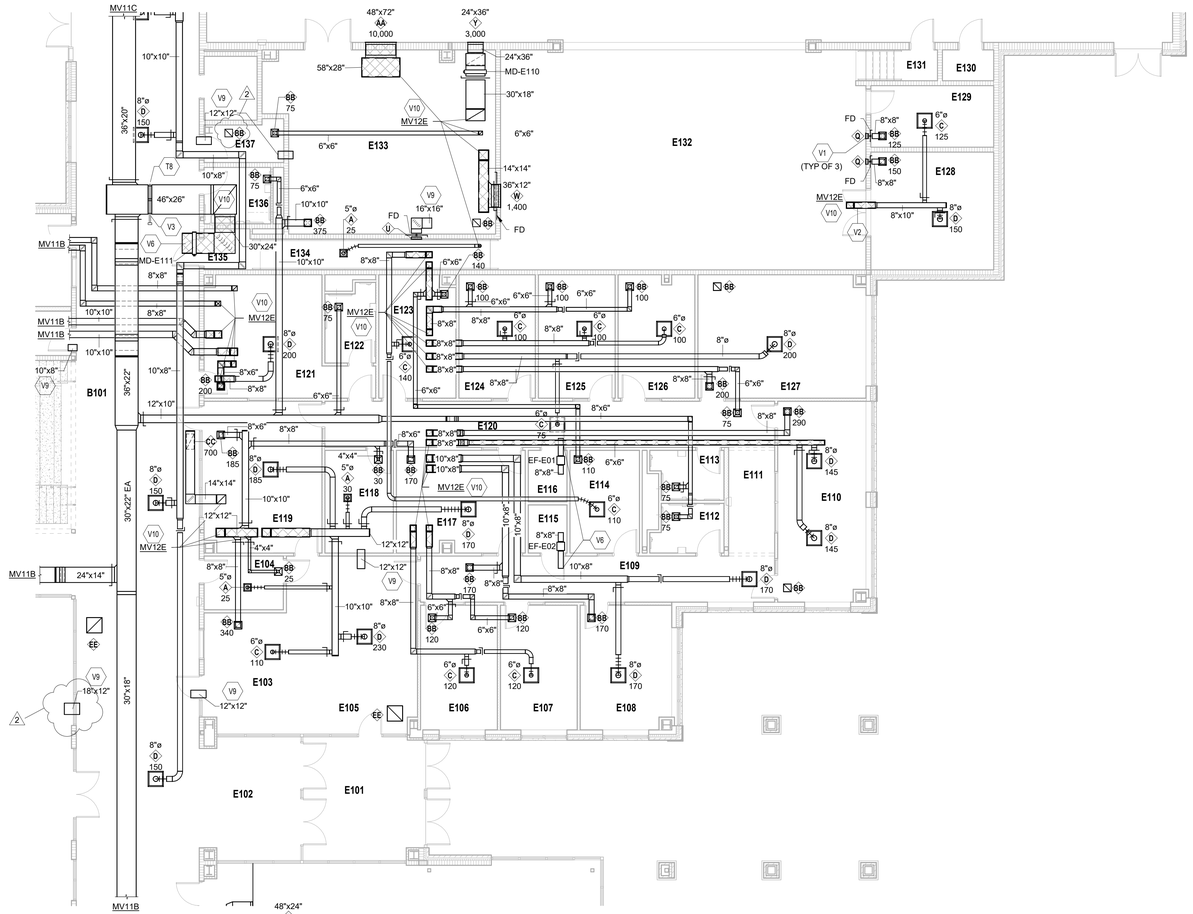
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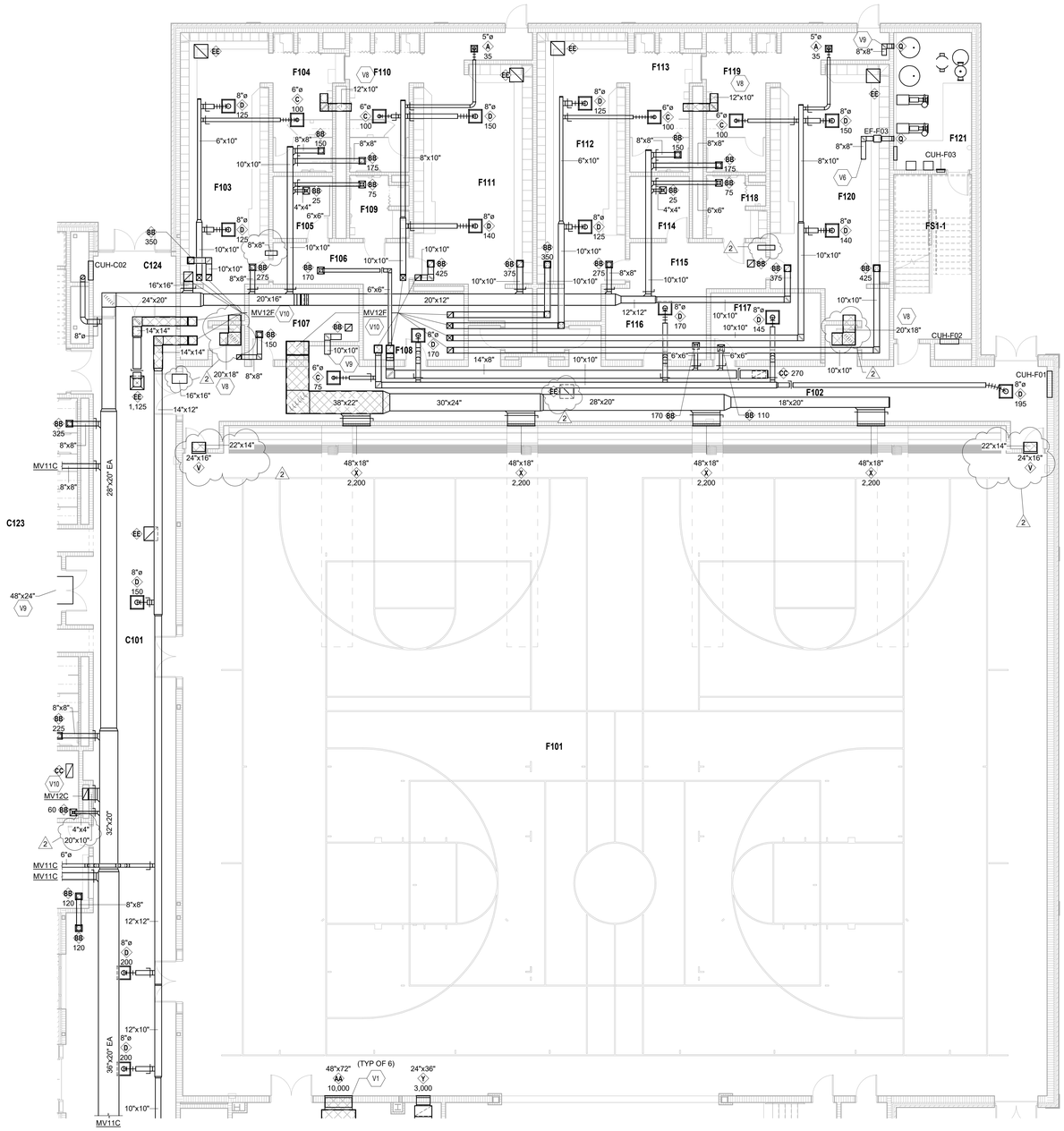

FIRST FLOOR VENTILATION PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C115	CORRIDOR	2370 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
V1	PAINT AIR DEVICES TO COLOR SELECTED BY ARCHITECT.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V8	ACOUSTICALLY LINED RELIEF AIR TRANSFER SOUND TRAP ABOVE THE CEILING. EXTEND DUCTWORK TO PROVIDE NO LINE OF SIGHT FROM OPENING TO OPENING.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V10	DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL STEEL IN AREA.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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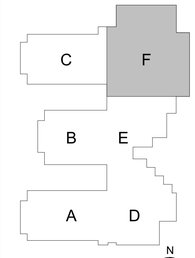

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

FIRST FLOOR VENTILATION PLAN - UNIT F

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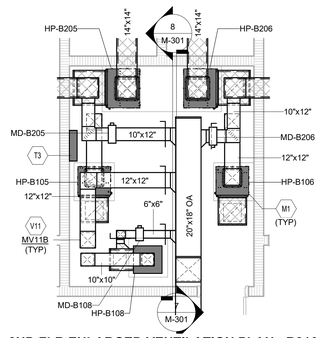
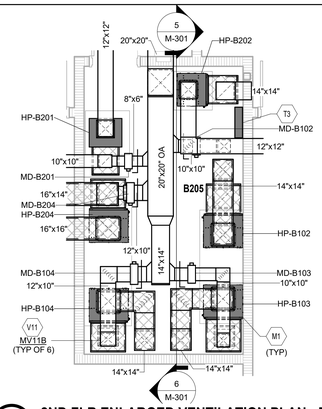


2 2ND FLR ENLARGED VENTILATION PLAN - B216

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

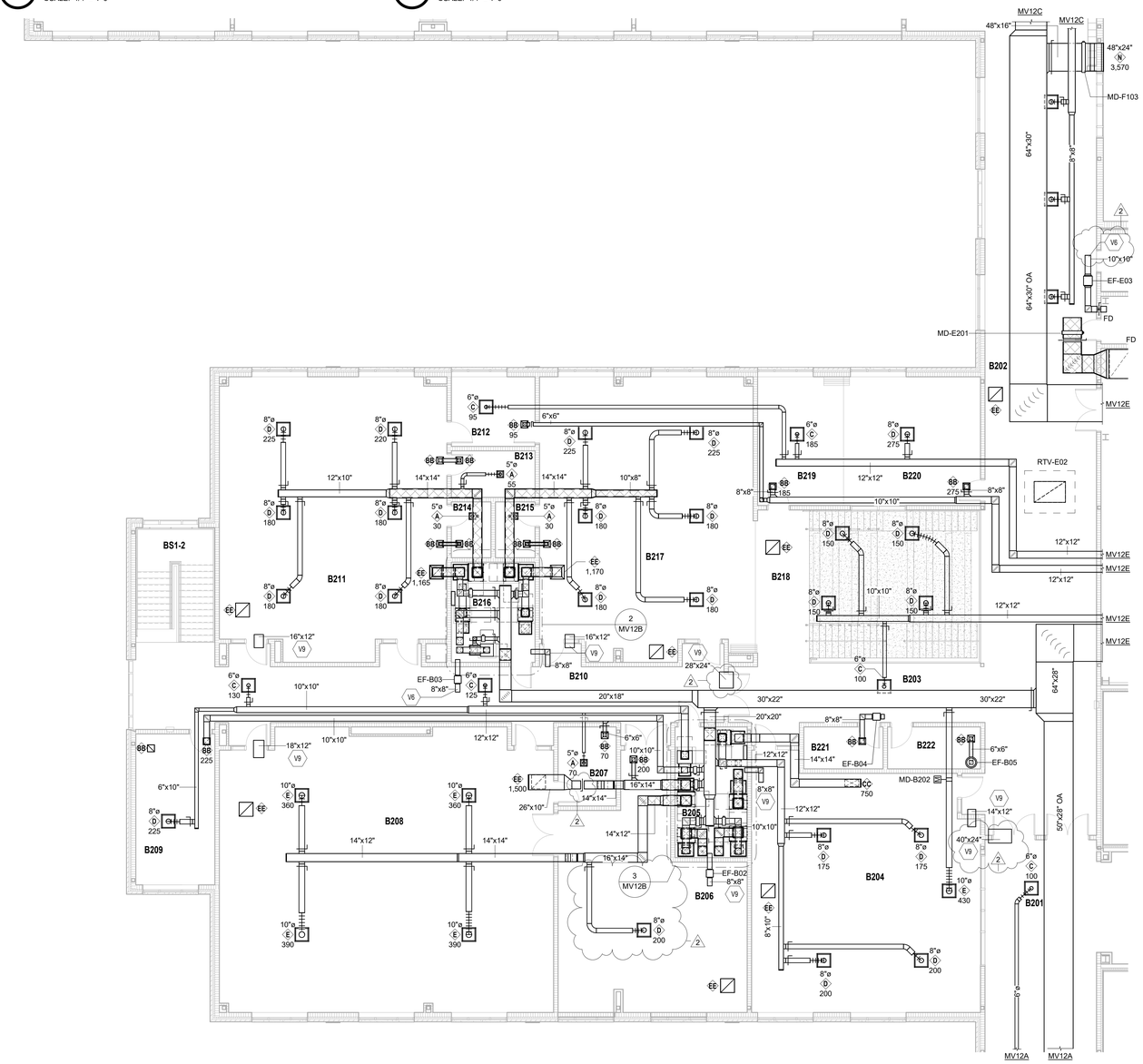


3 2ND FLR ENLARGED VENTILATION PLAN - B205

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
BS1-2	STAIR	216 SF
C201	UPPER MAIN HALL	1343 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF



SECOND FLOOR VENTILATION PLAN - UNIT B

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

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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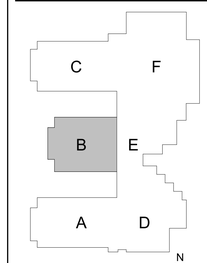

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

SECOND FLOOR VENTILATION PLAN - UNIT B

MV12B

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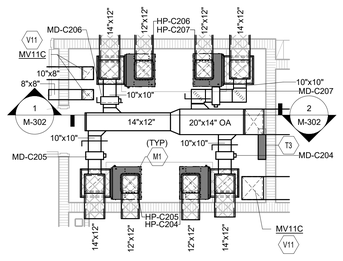
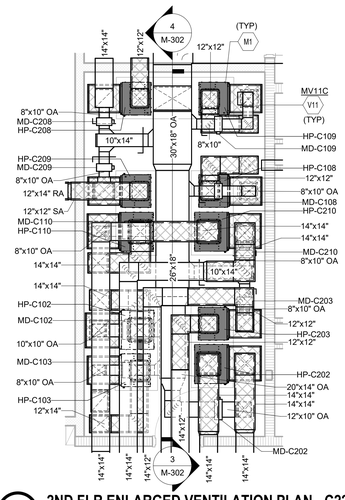


2 2ND FLR ENLARGED VENTILATION PLAN - C214

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

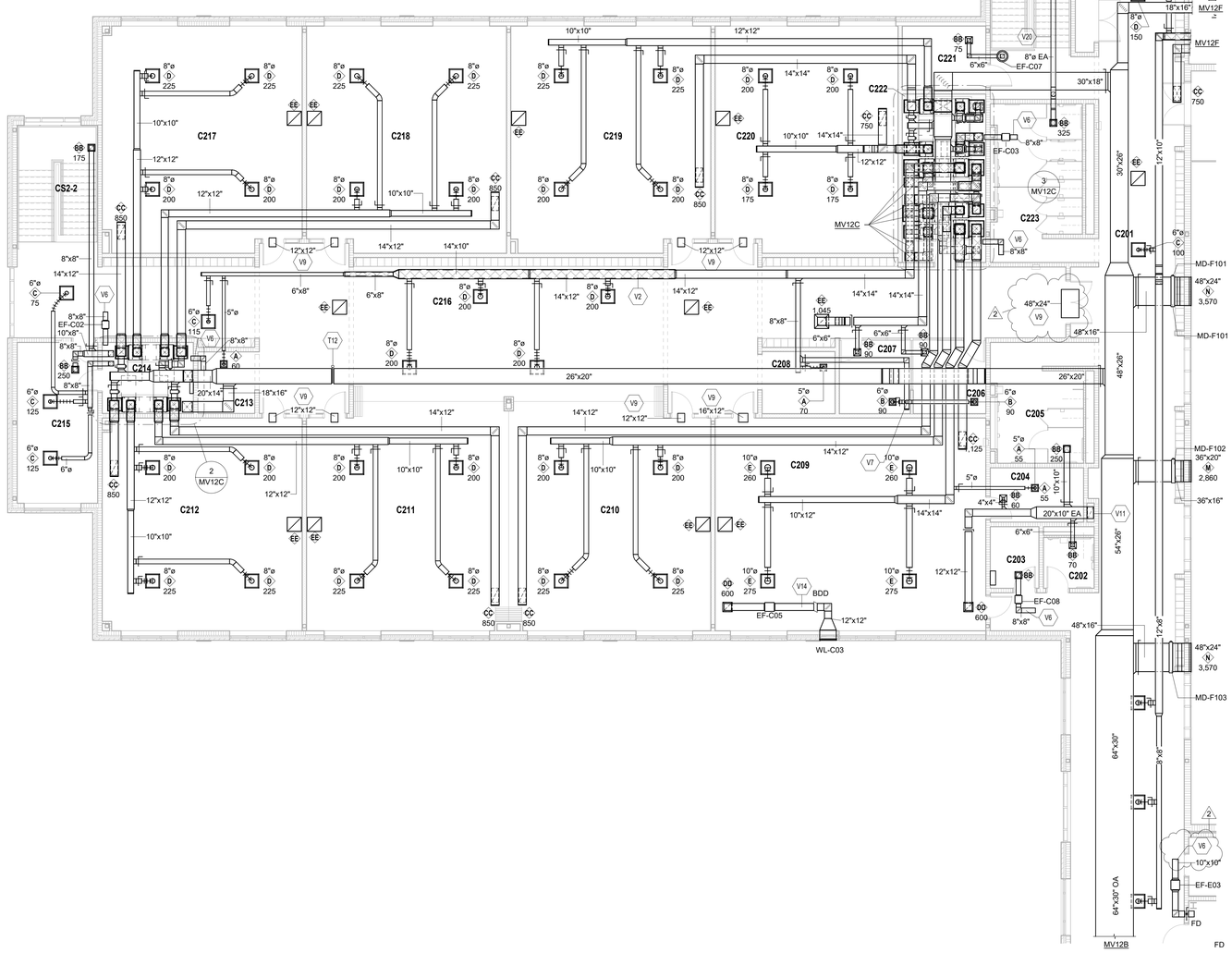


3 2ND FLR ENLARGED VENTILATION PLAN - C222

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF



SECOND FLOOR VENTILATION PLAN - UNIT C

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

B202

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3.5" HIGH CONCRETE HOUSEKEEPING PAD.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T12	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V14	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.
V20	ROUTE DUCTWORK BETWEEN/THROUGH STRUCTURAL STEEL. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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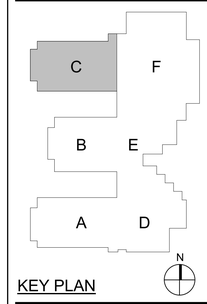

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

SECOND FLOOR VENTILATION PLAN - UNIT C

MV12C

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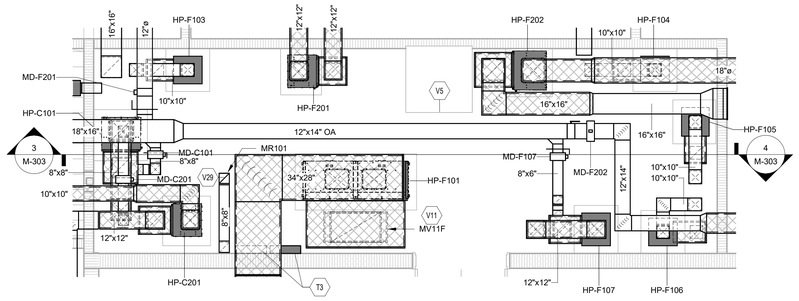
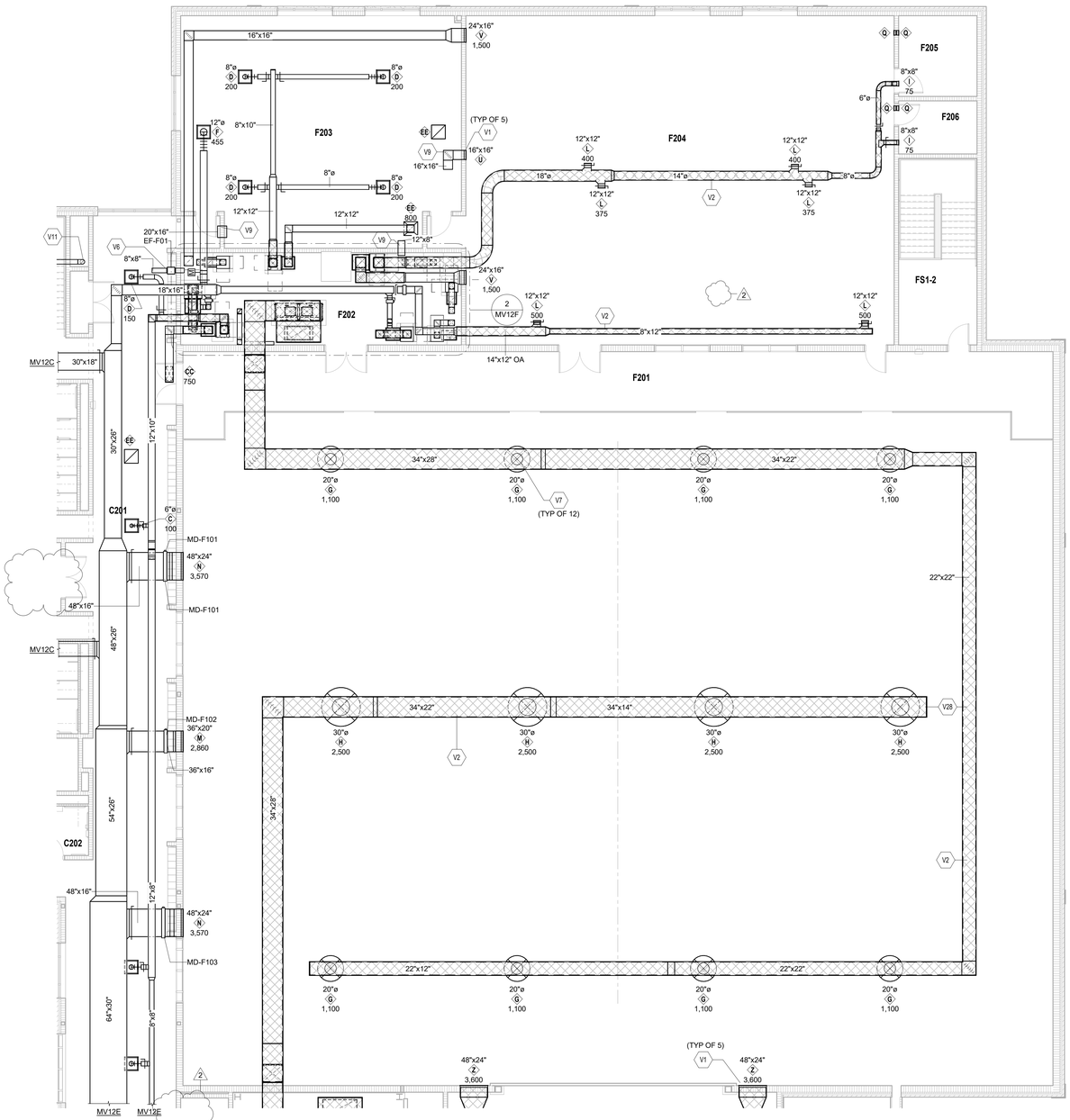


2 2ND FLR ENLARGED VENTILATION PLAN - F202

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



SECOND FLOOR VENTILATION PLAN - UNIT F

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C216	COLLABORATION	2369 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
E201	MECHANICAL	1995 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	FITNESS	2985 SF
F205	STORAGE	133 SF
F206	ELECTRICAL	87 SF
FS1-2	STAIR	307 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
I. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
J. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
K. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
V1	PAINT AIR DEVICES TO COLOR SELECTED BY ARCHITECT.
V2	PAINT DUCTWORK, GRILLES AND ALL ASSOCIATED DIFFUSERS TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V5	LOCATION OF ROOF ACCESS LADDER. ALL DUCTWORK, PIPING, WIRING, ETC. TO BE ROUTED OUTSIDE THIS AREA.
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V7	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V9	WALL OPENING LOCATED ABOVE THE CEILING. IF OPENING SIZE IS UNABLE TO BE ACCOMMODATED, THE SAME QUANTITY OF OPENING FREE AREA WILL BE ACCEPTABLE TO ACCOMMODATE AIR TRANSFER. COORDINATE EXACT LOCATION WITH ALL TRADES.
V11	DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
V28	INSTALL DUCTWORK AS HIGH AS POSSIBLE.
V29	TRANSITION DUCTWORK UP THROUGH ROOF. TERMINATE WITH EXHAUST FAN. COORDINATE WITH STRUCTURAL IN AREA.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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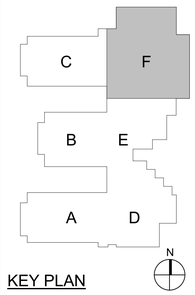

KEY PLAN

Construction Documents

MARK Z. HOSE REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

SECOND FLOOR VENTILATION PLAN - UNIT F

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FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
B102	CORRIDOR	190 SF
B103	MEDIA CENTER	1827 SF
B104	MEDIA OFFICE	123 SF
B105	MEDIA WORKROOM	164 SF
B106	MEDIA CLASSROOM	1071 SF
B107	ART	1190 SF
B108	KILN / STORAGE	243 SF
B109	CORRIDOR	913 SF
B110	PLTW	1187 SF
B111	PLANNING	165 SF
B112	STORAGE	250 SF
B113	CLEAN LAB	192 SF
B114	PLTW	1198 SF
B115	TECH	43 SF
B116	RESTROOM	63 SF
B117	STORAGE	154 SF
B118	GATHERING STAIR	419 SF
B119	ALTERNATIVE CLASSROOM	491 SF
B120	SRO OFFICE	105 SF
BS1-1	STAIR	208 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C108	SCIENCE	1147 SF
C109	CLASSROOM	889 SF
C110	CLASSROOM	889 SF
C111	CLASSROOM	843 SF
D124	CAFETERIA	4442 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E119	RECEPTION	301 SF
E121	CLINIC	274 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T8	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
T10	ROOM AVERAGING THERMOSTATS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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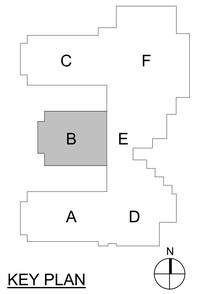

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #3	11.18.2025
2	ADDENDUM #4	11.24.2025

FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

MP11B

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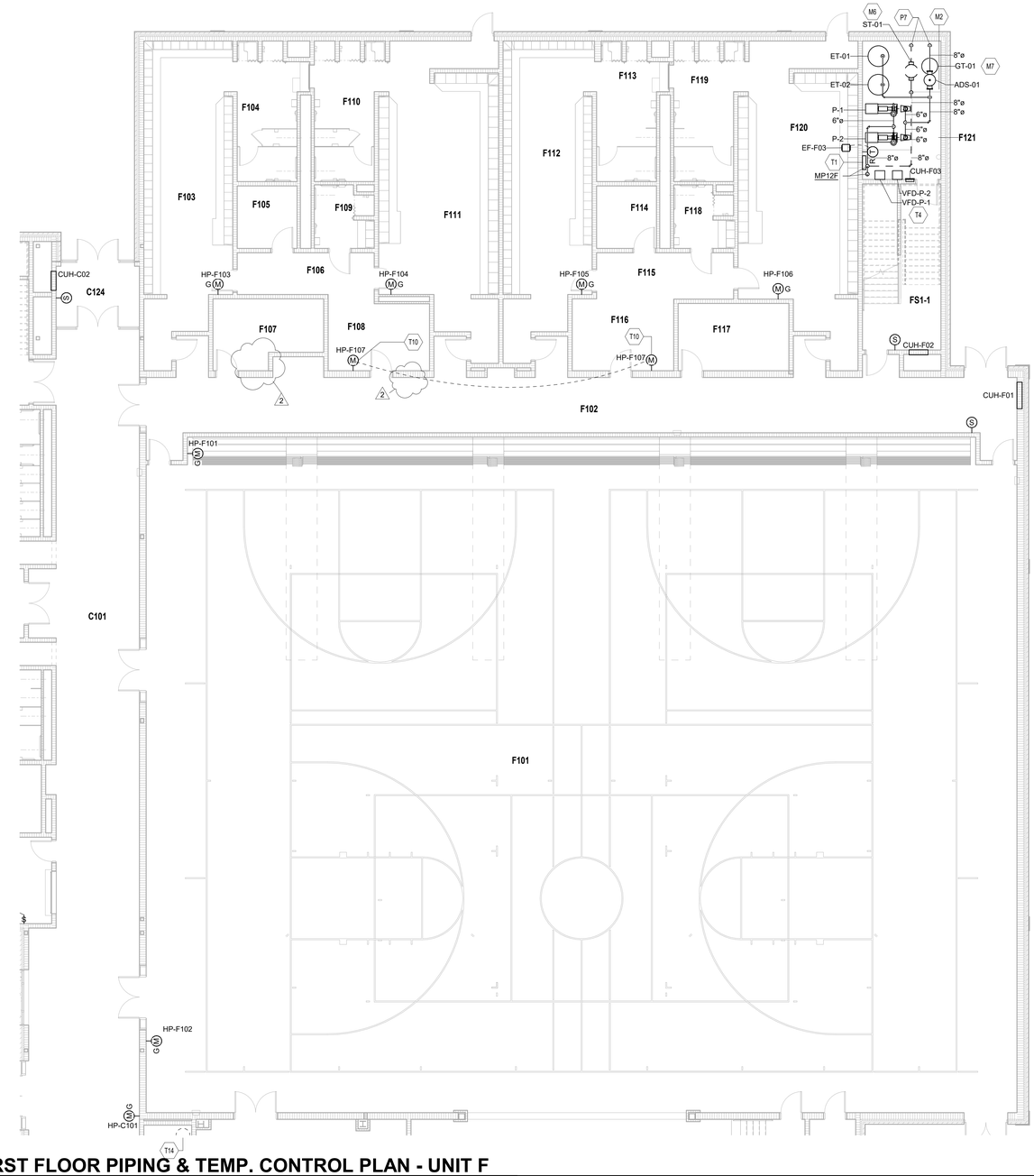

FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C102	CONCESSION	183 SF
C103	PREP	130 SF
C104	BOYS	217 SF
C115	CORRIDOR	2370 SF
C123	GIRLS	282 SF
C124	VESTIBULE	116 SF
CS1-1	STAIR	262 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M2	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M6	EXTEND DRAIN PIPING FULL SIZE FROM STRAINER TO NEAREST FLOOR DRAIN WITH SHUT-OFF VALVE.
M7	LOCATION OF GLYCOL FEED SYSTEM. FEED SYSTEM TO BE COMPLETE WITH ALL CONTROLS PREWIRED TO CONTROL THE FEED OF GLYCOL IN THE GEOTHERMAL WATER SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS WITH DIVISION 26 ELECTRICAL CONTRACTOR.
P7	8" GROUND LOOP SUPPLY AND RETURN PIPING FROM WELL FIELD. EXTEND GROUND LOOP PIPING FROM BELOW GROUND THROUGH FINISHED FLOOR AND TERMINATE 12" ABOVE FINISHED FLOOR WITH SHUT OFF VALVES AND FLANGES FOR TRANSITION FROM POLYETHELYNE PIPING TO STEEL PIPING BY WELL FIELD CONTRACTOR. HVAC CONTRACTOR SHALL CONTINUE WITH STEEL PIPING FROM VALVES PROVIDED BY WELL FIELD CONTRACTOR. COORDINATE REQUIREMENT BY ALL OTHER TRADES.
T1	APPROXIMATE LOCATION OF TEMPERATURE CONTROL SYSTEM BUILDING CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T4	TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING WIRING BETWEEN VARIABLE FREQUENCY CONTROLLER(S) AND EQUIPMENT.
T10	ROOM AVERAGING THERMOSTATS.
T14	CONTRACTOR SHALL PROVIDE SENSORS CAPABLE OF TRACKING WATER LEVELS IN THE ELEVATOR SUMP PIT. SENSORS SHALL PROVIDE REAL-TIME STATUS AND ALARM NOTIFICATIONS FOR WATER PRESENCE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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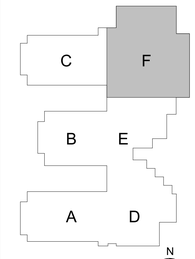

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

FIRST FLOOR PIPING & TEMP. CONTROL PLAN - UNIT F

MP11F

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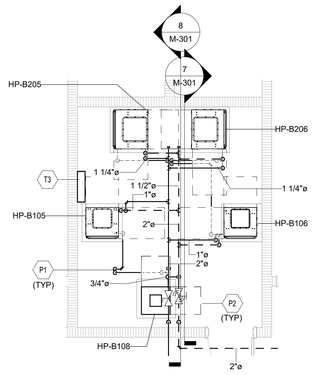
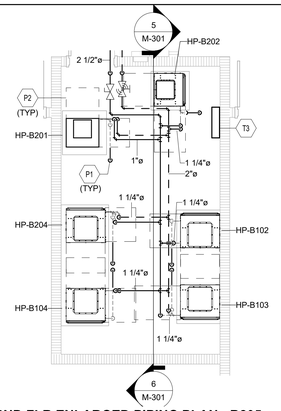


2 2ND FLR ENLARGED PIPING PLAN - B216

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

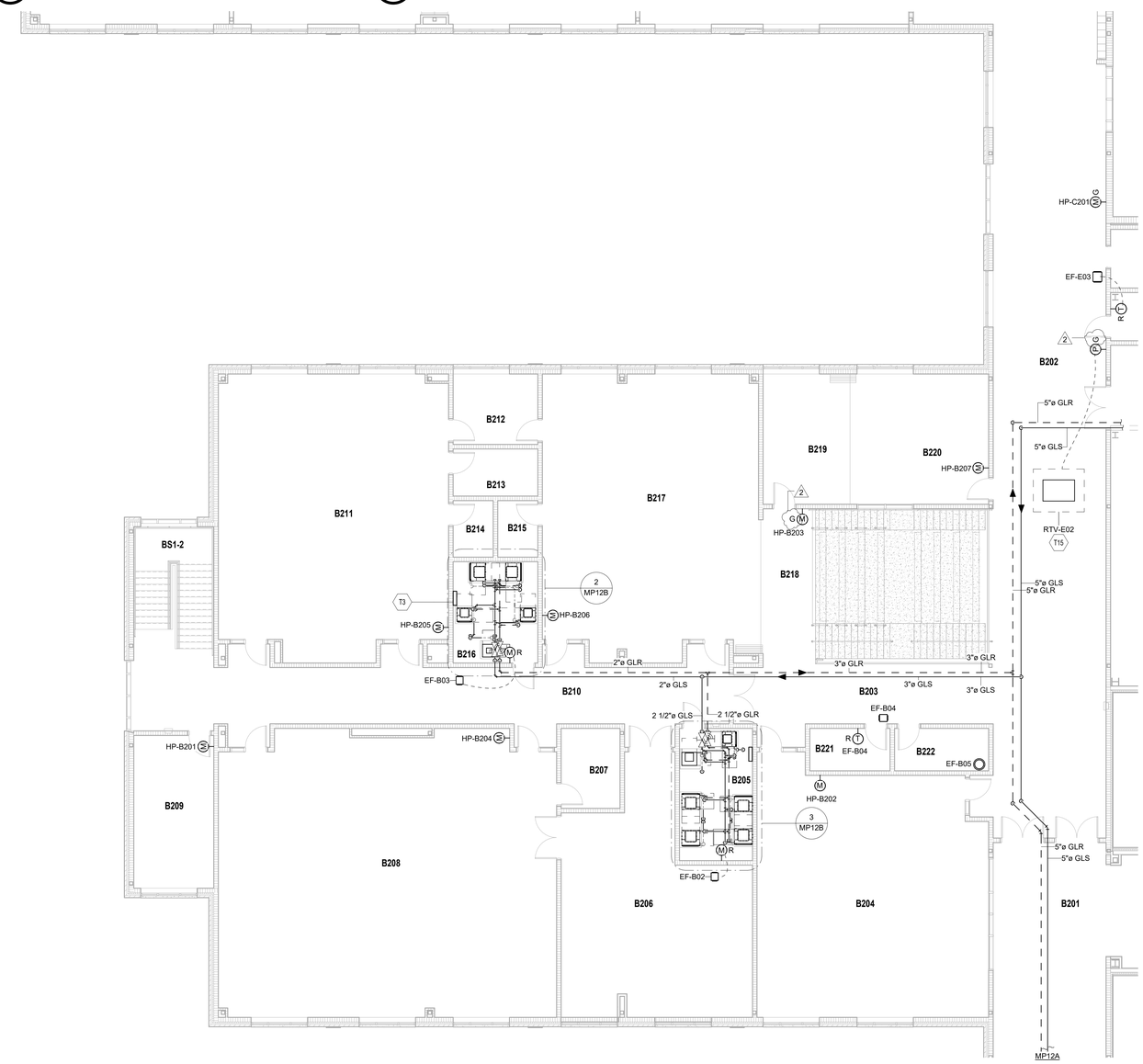


3 2ND FLR ENLARGED PIPING PLAN - B205

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
BS1-2	STAIR	216 SF
C201	UPPER MAIN HALL	1343 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF



SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

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

HVAC PIPING & TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. GROUND LOOP SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
F. COORDINATE WALL MOUNTED SENSOR HEIGHTS WITH SPECIFICATIONS.
G. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
H. THERMOSTAT ROUGH-IN SHALL BE BY DIVISION 26 CONTRACTOR. COORDINATE SCOPE OF WORK BETWEEN ALL TRADES.

HVAC PIPING & TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	3/4" DIAMETER CONDENSATE PIPING ROUTED TO DRAIN IN AREA. SLOPE PIPING AT A MINIMUM OF 1/8" PER LINEAR FOOT. END OF PIPE TURN DOWN TO DRAIN AND TO BE CUT AT 45 DEGREE ANGLE. VERIFY FINAL PIPE DIAMTER PER MANUFACTURERS GUIDELINES.
P2	CLEARANCE ALLOWED FOR HEAT PUMP ACCESS.
T3	APPROXIMATE LOCATION OF HEAT PUMP UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T15	RELIEF AIR CONTROL DAMPER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANCIAL CONTRACTOR.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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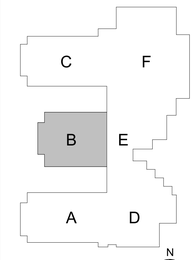

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

SECOND FLOOR PIPING & TEMP. CONTROL PLAN - UNIT B

MP12B

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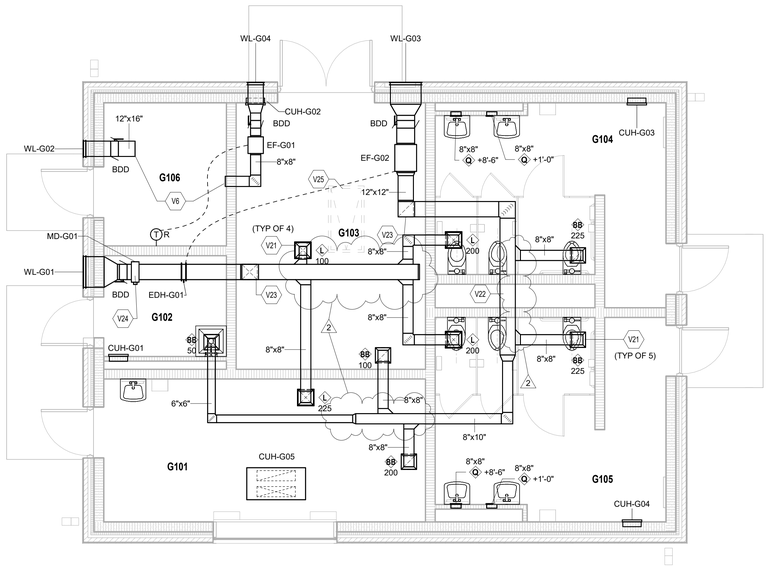

1ST FLR ENLARGED CONSESSIONS BUILDING

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

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

2 △

MECHANICAL ROOM PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
V6	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V21	AIR DEVICE PROVIDED WITH FACTORY MOUNTED VOLUME DAMPER.
V22	ROUTE DUCTWORK BETWEEN/THROUGH ROOF TRUSSES. COORDINATE EXACT LOCATION WITH ALL TRADES.
V23	ROUTE DUCTWORK UP THROUGH CEILING AND ROOF TRUSSES AT THIS APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH ALL TRADES.
V24	PROVIDE TWO POSITION MOTORIZE DAMPER TO SEQUENCE CONTROL DAMPER OPEN AND CLOSED WITH EDH OPERATION.
V25	INTERCONNECTING CONTROL WIRING BETWEEN EDH AND EF OPERATION. CONTROL WIRING TO BE INSTALLED IN CONDUIT

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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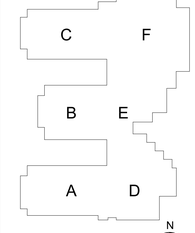

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO. △	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

ENLARGED CONSESSION BUILDING - UNIT G

M-401

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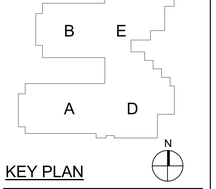


KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

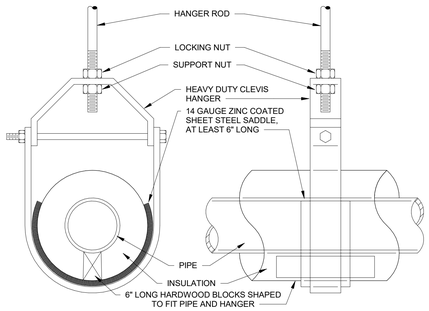
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

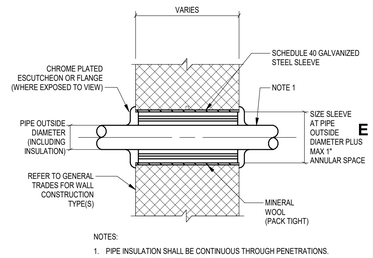
REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

MECHANICAL DETAILS

M-501

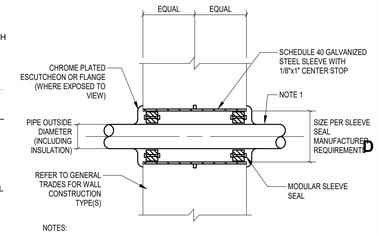


6 PIPE HANGERS (6" AND SMALLER)
NOT TO SCALE



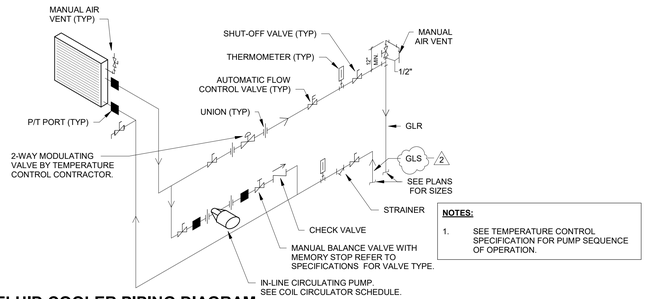
NOTES:
1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS.

1 PIPE PENETRATION INTERIOR WALL
NOT TO SCALE



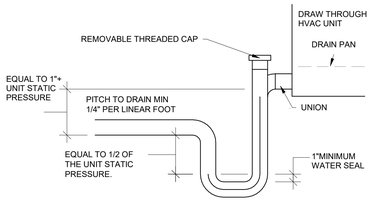
NOTES:
1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS. PROVIDE RIGID THERMAL HANGAR SHIELD INSERT AT MODULAR SLEEVE SEALS.

2 PIPE PENETRATION EXTERIOR WALL
NOT TO SCALE



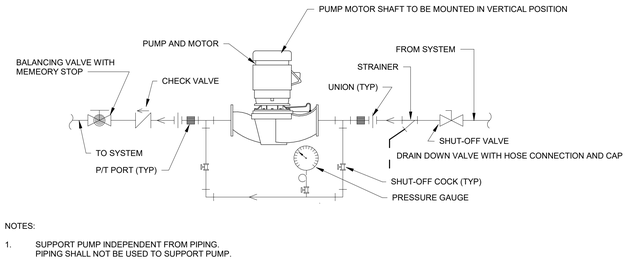
NOTES:
1. SEE TEMPERATURE CONTROL SPECIFICATION FOR PUMP SEQUENCE OF OPERATION.

10 DRY FLUID COOLER PIPING DIAGRAM
NOT TO SCALE



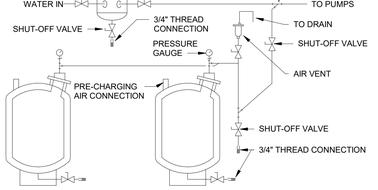
NOTE:
1. SEE PLANS FOR PIPE SIZES.
2. REFER TO SPECIFICATIONS FOR INSULATION REQUIRED.

7 CONDENSATE TRAP PIPING DIAGRAM
NOT TO SCALE

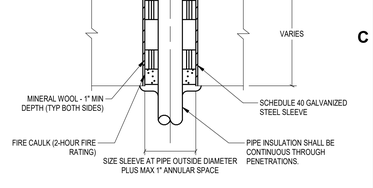


NOTES:
1. SUPPORT PUMP INDEPENDENT FROM PIPING. PIPING SHALL NOT BE USED TO SUPPORT PUMP.

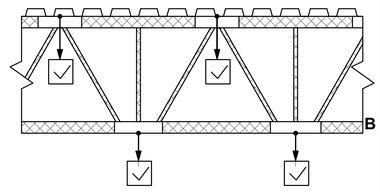
11 IN-LINE PUMP PIPING DIAGRAM
NOT TO SCALE



8 AIR SEPARATOR/EXPANSION TANK PIPING DIAGRAM
NOT TO SCALE

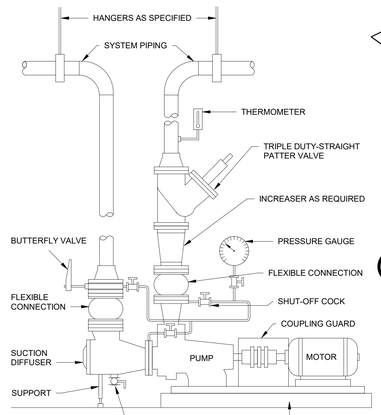


3 PIPE PENETRATION FLOOR
NOT TO SCALE

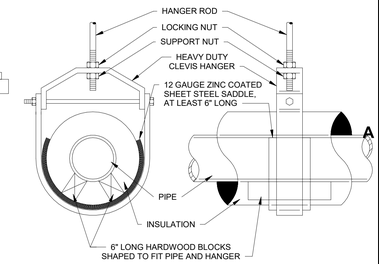


1. ALL LOADS IN EXCESS OF 100 LBS MAY ONLY BE HUNG FROM STEEL JOISTS AT THE LOCATIONS INDICATED WITH A CHECK MARK.
2. LOADS IN EXCESS OF 100 LBS ARE NOT TO BE HUNG FROM THE CROSS HATCHED REGIONS UNLESS ADDITIONAL WEB REINFORCING MEMBERS ARE INSTALLED PER STRUCTURAL DRAWINGS.
3. THIS SECTION APPLIES TO LOADS HUNG FROM BOTH NEW AND EXISTING JOISTS.
4. SPACE HANGERS OUT SO THAT NOT ALL HANGERS ARE ATTACHED TO THE SAME JOIST.

ACCEPTABLE LOCATION TO HANG LOADS FROM STEEL JOISTS
4 NOT TO SCALE



9 BASE MOUNTED WATER PUMP PIPING DETAIL
NOT TO SCALE



5 PIPE HANGERS (8" AND LARGER)
NOT TO SCALE

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23.33.00 - MODULATING MOTORIZED DAMPER SCHEDULE

MARK	AIR FLOW	OVERALL SIZE	SYSTEM TYPE	NOTES
MD-A101	165 CFM	8" x 6"	Outdoor Air (OA)	1
MD-A102	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A103	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A104	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A105	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A106	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A107	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A108	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A109	625 CFM	12" x 10"	Outdoor Air (OA)	1
MD-A110	365 CFM	8" x 10"	Outdoor Air (OA)	1
MD-A111	70 CFM	6" x 4"	Outdoor Air (OA)	1
MD-A201	180 CFM	8" x 6"	Outdoor Air (OA)	1
MD-A202	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A203	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A204	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A205	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A206	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A207	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A208	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-A209	625 CFM	12" x 10"	Outdoor Air (OA)	1
MD-A210	375 CFM	8" x 10"	Outdoor Air (OA)	1
MD-B101	35 CFM	4" x 4"	Outdoor Air (OA)	1
MD-B102	500 CFM	10" x 10"	Outdoor Air (OA)	1
MD-B103	500 CFM	10" x 10"	Outdoor Air (OA)	1
MD-B104	660 CFM	12" x 10"	Outdoor Air (OA)	1
MD-B105	455 CFM	10"	Outdoor Air (OA)	1
MD-B106	425 CFM	10"	Outdoor Air (OA)	1
MD-B107	225 CFM	8" x 8"	Outdoor Air (OA)	1
MD-B108	120 CFM	6" x 6"	Outdoor Air (OA)	1
MD-B201	195 CFM	8" x 6"	Outdoor Air (OA)	1
MD-B202	430 CFM	10"	Outdoor Air (OA)	1
MD-B203	275 CFM	8" x 6"	Outdoor Air (OA)	1
MD-B204	735 CFM	12" x 10"	Outdoor Air (OA)	1
MD-B205	625 CFM	10" x 12"	Outdoor Air (OA)	1
MD-B206	595 CFM	10" x 12"	Outdoor Air (OA)	1
MD-B207	60 CFM	4" x 6"	Outdoor Air (OA)	1
MD-C101	310 CFM	8" x 8"	Outdoor Air (OA)	1
MD-C102	625 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C103	485 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C104	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C105	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C106	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C107	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C108	485 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C109	425 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C110	365 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C111	70 CFM	6" x 4"	Outdoor Air (OA)	1
MD-C201	235 CFM	8" x 8"	Outdoor Air (OA)	1
MD-C202	625 CFM	12" x 10"	Outdoor Air (OA)	1
MD-C203	485 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C204	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C205	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C206	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C207	485 CFM	10" x 10"	Outdoor Air (OA)	1
MD-C208	485 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C209	475 CFM	8" x 10"	Outdoor Air (OA)	1
MD-C210	375 CFM	8" x 10"	Outdoor Air (OA)	1
MD-D101	350 CFM	10" x 10"	Outdoor Air (OA)	3
MD-D102	350 CFM	10" x 8"	Outdoor Air (OA)	3
MD-D103	115 CFM	6" x 6"	Outdoor Air (OA)	1
MD-D104	1,600 CFM	20" x 12"	Outdoor Air (OA)	1
MD-D105	1,600 CFM	20" x 12"	Outdoor Air (OA)	1
MD-D106	110 CFM	6" x 4"	Outdoor Air (OA)	1
MD-D107	45 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D108	70 CFM	6" x 6"	Outdoor Air (OA)	1
MD-D109	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D110	25 CFM	4" x 4"	Outdoor Air (OA)	1
MD-D111	975 CFM	14" x 12"	Exhaust Air (EA)	1
MD-D112	1,200 CFM	14" x 14"	Outdoor Air (OA)	4
MD-E101	210 CFM	8" x 6"	Outdoor Air (OA)	1
MD-E102	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-E103	40 CFM	4" x 4"	Outdoor Air (OA)	1
MD-E104	90 CFM	6" x 4"	Outdoor Air (OA)	1
MD-E105	90 CFM	6" x 4"	Outdoor Air (OA)	1
MD-E106	60 CFM	6" x 4"	Outdoor Air (OA)	1
MD-E107	90 CFM	6" x 4"	Outdoor Air (OA)	1
MD-E108	25 CFM	4" x 4"	Outdoor Air (OA)	1
MD-E109	800 CFM	12" x 12"	Outdoor Air (OA)	1
MD-E110	3,000 CFM	30" x 18"	Exhaust Air (EA)	6
MD-E111	6,100 CFM	32" x 26"	Exhaust Air (EA)	2
MD-E201	6,100 CFM	32" x 26"	Exhaust Air (EA)	2
MD-F101	3,570 CFM	48" x 16"	Outdoor Air (OA)	1
MD-F102	2,920 CFM	36" x 16"	Outdoor Air (OA)	1
MD-F103	3,570 CFM	48" x 16"	Outdoor Air (OA)	1
MD-F104	3,600 CFM	32" x 26"	Exhaust Air (EA)	7
MD-F105	3,600 CFM	32" x 26"	Exhaust Air (EA)	5
MD-F107	185 CFM	8" x 6"	Outdoor Air (OA)	1
MD-F201	455 CFM	12"	Outdoor Air (OA)	1
MD-F202	1,000 CFM	14" x 12"	Outdoor Air (OA)	1
MD-G01	725 CFM	12" x 12"	Supply Air (SA)	8

NOTES

1 PROVIDE AN ADJUSTABLE GLOBAL MINIMUM POSITION SET POINT. SET MINIMUM POSITION AT 50%.
2 SET MINIMUM DAMPER POSITION AT 0% (ADJ.).
3 SET MINIMUM DAMPER POSITION AT 100% (ADJ.).
4 INTERLOCK MOTORIZED DAMPER WITH DISHWASHER EXHAUST FAN.
5 INTERLOCK MOTORIZED EXHAUST DAMPER WITH MD-F101.
6 INTERLOCK MOTORIZED EXHAUST DAMPER WITH MD-F102.
7 INTERLOCK MOTORIZED EXHAUST DAMPER WITH MD-F103.
8 INTERLOCK MOTORIZED EXHAUST DAMPER WITH EF-G02

23.81.46 - WATER-SOURCE HEAT PUMP SCHEDULE LITE

IDENTITY DATA				ELECTRICAL					SUPPLY FAN		COOLING						HEATING						CONDENSER COIL							UNIT SIZE (IN)				
MARK	MANUFACTURER	MODEL	LOCATION # NAME	VOLT.	PH.	HZ	MCA (A)	MOCP (A)	NOMINAL (CFM)	ESP (IN-WG)	TOT. CAP. (MBH)	SENS. CAP. (MBH)	HEAT OF REJECTION (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EWT (°F)	LWT (°F)	EER	CAP. (MBH)	HEAT OF ABSORPTION (MBH)	EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	COP	FLOW (GPM)	COOLING WPD (FT-WG)	HEATING WPD (FT-WG)	GLYCOL TYPE	%	REFRIG. TYPE	REFRIG. VOLUME (OZ)	L	W	H	OPER. WT. (LBS.)	NOTES
HP-A101	CLIMATEMASTER	SEV024	D201 MECHANICAL	277	1	60	13.3	20	840	0.75	24.6	17.9	41.2	75	63	54	52	80	90.3	16.4	23.7	25.5	68	95	50	44	4.1	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A102	CLIMATEMASTER	SEV024	A105 MECHANICAL	277	1	60	13.3	20	850	0.50	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A103	CLIMATEMASTER	SEV024	A105 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A104	CLIMATEMASTER	SEV024	A112 MECHANICAL	277	1	60	13.3	20	850	0.70	24.6	18.4	29.4	75	63	55	53	80	90.5	16	23.6	18.3	68	94	50	44	4.3	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A105	CLIMATEMASTER	SEV024	A112 MECHANICAL	277	1	60	13.3	20	850	0.50	24.6	18.4	41.2	75	63	55	53	80	90.5	16	23.6	25.5	68	94	50	44	4.3	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A106	CLIMATEMASTER	SEV024	A112 MECHANICAL	277	1	60	13.3	20	850	0.50	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A107	CLIMATEMASTER	SEV024	A112 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A108	CLIMATEMASTER	SEV024	A105 MECHANICAL	277	1	60	13.3	20	850	0.80	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A109	CLIMATEMASTER	SEV036	A105 MECHANICAL	480	3	60	8.5	15	1125	0.55	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-A110	CLIMATEMASTER	SEV036	A105 MECHANICAL	480	3	60	8.5	15	1200	0.70	37.2	25.7	43.4	75	63	55	52	80	90.2	17.7	36.2	27.6	68	96	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-A111	CLIMATEMASTER	SEV018	A112 MECHANICAL	277	1	60	11.6	15	735	0.75	19.1	16.3	23.2	75	63	54	54	80	90.8	14.9	18.4	14.3	68	92	50	43	4.5	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-A201	CLIMATEMASTER	SEV024	D201 MECHANICAL	277	1	60	13.3	20	850	0.75	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A202	CLIMATEMASTER	SEV024	A204 MECHANICAL	277	1	60	13.3	20	850	0.55	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A203	CLIMATEMASTER	SEV024	A204 MECHANICAL	277	1	60	13.3	20	850	0.65	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A204	CLIMATEMASTER	SEV024	A211 MECHANICAL	277	1	60	13.3	20	850	0.65	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A205	CLIMATEMASTER	SEV024	A211 MECHANICAL	277	1	60	13.3	20	850	0.55	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A206	CLIMATEMASTER	SEV024	A211 MECHANICAL	277	1	60	13.3	20	850	0.50	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A207	CLIMATEMASTER	SEV024	A211 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A208	CLIMATEMASTER	SEV024	A204 MECHANICAL	277	1	60	13.3	20	850	0.80	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-A209	CLIMATEMASTER	SEV036	A204 MECHANICAL	480	3	60	8.5	15	1125	0.60	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-A210	CLIMATEMASTER	SEV036	A204 MECHANICAL	480	3	60	8.5	15	1225	0.65	37.3	26.0	43.4	75	63	55	52	80	90.3	17.6	36.2	27.6	68	95	50	43	4.6	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B101	CLIMATEMASTER	SEV006	E201 MECHANICAL	277	1	60	4.5	15	250	0.70	5.9	5.5	7.0	75	63	55	55	80	90.1	14.8	5.6	3.8	68	89	50	44	4.1	1.50	2.90	2.90	PROPYLENE GLYCOL	20	R-454B	19	22	22	35	136	1,2,3,4,5
HP-B102	CLIMATEMASTER	SEV036	B205 MECHANICAL	480	3	60	8.5	15	1125	0.60	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B103	CLIMATEMASTER	SEV036	B205 MECHANICAL	480	3	60	8.5	15	950	0.70	36.0	22.7	43.4	75	63	53	49	80	89.9	18.1	35.2	27.6	68	102	50	44	4.1	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B104	CLIMATEMASTER	SEV036	B205 MECHANICAL	480	3	60	8.5	15	1250	0.80	37.4	26.3	43.4	75	63	56	52	80	90.2	17.5	36.3	27.6	68	95	50	43	4.6	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B105	CLIMATEMASTER	SEV024	B216 MECHANICAL	277	1	60	13.3	20	650	0.55	23.9	16.0	29.4	75	63	52	50	80	89.9	16.7	23.1	18.3	68	101	50	44	4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B106	CLIMATEMASTER	SEV024	B216 MECHANICAL	277	1	60	13.3	20	650	0.55	23.9	16.0	41.2	75	63	52	50	80	89.9	16.7	23.1	25.5	68	101	50	44	4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B107	CLIMATEMASTER	SEV018	E201 MECHANICAL	277	1	60	11.6	15	540	0.60	18.6	14.1	23.2	75	63	51	51	80	90.5	15.9	17.8	14.3	68	98	50	44	4	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-B108	CLIMATEMASTER	SEV012	B216 MECHANICAL	277	1	60	8.3	15	450	0.60	11.8	10.2	14.0	75	63	54	54	80	90.0	15.7	11.9	8.7	68	93	50	44	3.9	3.00	5.30	7.40	PROPYLENE GLYCOL	20	R-454B	27	22	22	35	160	1,2,3,4,5
HP-B201	CLIMATEMASTER	SEV018	B205 MECHANICAL	277	1	60	11.6	15	550	0.70	18.6	14.1	23.2	75	63	51	51	80	90.5	15.9	17.8	14.3	68	98	50	44	4	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-B202	CLIMATEMASTER	SEV024	B205 MECHANICAL	277	1	60	13.3	20	750	0.55	24.4	17.2	41.2	75	63	54	53	80	90.2	16.5	23.5	25.5	68	97	50	44	4.1	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-B203	CLIMATEMASTER	SEV018	E201 MECHANICAL	277	1	60	11.6	15	700	0.50	19.1	16.0	23.2	75	63	54	53	80	90.8	15.1	18.3	14.3	68	92	50	43	4.5	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-B204	CLIMATEMASTER	SEV048	B205 MECHANICAL	480	3	60	14.9	20	1700	0.60	49.1	36.3	58.5	75	63	55	53	80	90.3	16.3	48.0	36.7	68	94	50	44	4.3	12.00	6.00	6.40	PROPYLENE GLYCOL	20	R-454B	59	31	25	55	450	1,2,3,4,5,6
HP-B205	CLIMATEMASTER	SEV036	B216 MECHANICAL	480	3	60	8.5	15	1250	0.55	37.4	26.3	43.4	75	63	56	52	80	90.3	17.5	36.3	27.6	68	95	50	43	4.6	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B206	CLIMATEMASTER	SEV036	B216 MECHANICAL	480	3	60	8.5	15	1200	0.55	37.2	25.7	43.4	75	63	55	52	80	90.2	17.7	36.2	27.6	68	96	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-B207	CLIMATEMASTER	SEV018	E201 MECHANICAL	277	1	60	11.6	15	555	0.80	18.6	14.1	23.2	75	63	51	51	80	90.5	15.9	17.8	14.3	68	98	50	44	4	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-C101	CLIMATEMASTER	SEV036	F202 MECHANICAL	480	3	60	8.5	15	1110	0.90	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-C102	CLIMATEMASTER	SEV036	C222 MECHANICAL	480	3	60	8.5	15	1125	0.80	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-C103	CLIMATEMASTER	SEV024	C222 MECHANICAL	277	1	60	13.3	20	850	0.75	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C104	CLIMATEMASTER	SEV024	C113 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C105	CLIMATEMASTER	SEV024	C113 MECHANICAL	277	1	60	13.3	20	850	0.50	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C106	CLIMATEMASTER	SEV024	C113 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C107	CLIMATEMASTER	SEV024	C113 MECHANICAL	277	1	60	13.3	20	850	0.65	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C108	CLIMATEMASTER	SEV024	C222 MECHANICAL	277	1	60	13.3	20	850	0.80	24.7	18.5	41.2	75	63	55	53	80	90.3	16.1	23.8	25.5	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C109	CLIMATEMASTER	SEV024	C222 MECHANICAL	277	1	60	13.3	20	850	0.65	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C110	CLIMATEMASTER	SEV036	C222 MECHANICAL	480	3	60	8.5	15	1200	0.80	37.2	25.7	43.4	75	63	55	52	80	90.2	17.7	36.2	27.6	68	96	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-C111	CLIMATEMASTER	SEV018	C113 MECHANICAL	277	1	60	11.6	15	675	0.85	19.0	15.7	23.2	75	63	54	53	80	90.7	15.3	18.2	14.3	68	93	50	43	4.4	4.50	2.80	3.80	PROPYLENE GLYCOL	20	R-454B	40	26	22	45	257	1,2,3,4,5
HP-C201	CLIMATEMASTER	SEV024	F202 MECHANICAL	277	1	60	13.3	20	750	0.65	24.4	17.2	41.2	75	63	54	51	80	90.2	16.5	23.5	25.5	68	97	50	44	4.1	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C202	CLIMATEMASTER	SEV036	C222 MECHANICAL	480	3	60	8.5	15	1125	0.65	36.9	24.7	43.4	75	63	55	51	80	90.2	17.8	35.9	27.6	68	98	50	44	4.4	9.00	5.50	6.20	PROPYLENE GLYCOL	20	R-454B	43	31	25	51	359	1,2,3,4,5,6
HP-C203	CLIMATEMASTER	SEV024	C222 MECHANICAL	277	1	60	13.3	20	850	0.80	24.7	18.5	29.4	75	63	55	53	80	90.3	16.1	23.8	18.3	68	94	50	44	4.4	6.00	1.60	1.90	PROPYLENE GLYCOL	20	R-454B	34	26	22	49	298	1,2,3,4,5
HP-C204	CLIMATEMASTER	SEV024	C214 MECHANICAL	277	1	60	13.3	20	850	0.60	24.7	18.5	41.2	75	63	55	53	80

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23.73.13 - AIR HANDLING UNIT SCHEDULE

IDENTITY				SUPPLY FAN	SUPPLY FAN					EXHAUST FAN							ELECTRICAL				COOLING								HEATING				GENERAL COIL PERFORMANCE					HOT GAS REHEAT COIL			UNIT SIZE (IN)				
MARK	MFG	MODEL	# NAME	EQUIPMENT NOMINAL (CFM)	MIN OSA (CFM)	ESP (IN-WG)	FAN RPM	DRIVE	MOTOR QTY	MOTOR KW	MOTOR FLA	AIRFLOW (CFM)	ESP (IN-WG)	FAN RPM	DRIVE	MOTOR QTY	MOTOR KW	MOTOR FLA	MCA	MOCP	VOLT.	PH	TOT. CAP. (BTU/H)	SENS. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EWT (°F)	LWT (°F)	CAP. (BTU/H)	EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	WPD (FT-W G)	FLOW (GPM)	GLYCOL TYPE	GLYCOL %	REFRIG.	FACE VEL. (FPM)	CAP. (BTU/H)	EAT DB (°F)	LAT DB (°F)	L	W	H	OPER. WT (LB)	NOTES
DOAS-01	UNITED COOLAIR	VZWHD50G4DTBC-C-ERX	E201 MECHANICAL	18000	18000	1.50	2595	ECM	4	5.9	8	14,000	1.5	2102	ECM	4	5.9	8	133 A	150 A	460 V	3	655672	439092	80.4	68.8	58.3	57.6	80	92.2	550260	38.8	72.7	50.0	42.2	11.50	125.0	PG	20	R-454B	520	336206	58	76	176.0	130.5	93.0	10538	1,2,3,4,5,6,7,8,9,10,11
DOAS-02	UNITED COOLAIR	VZWHD50G4DTBC-C-ERX	E201 MECHANICAL	18000	18000	1.50	2595	ECM	4	5.9	8	14,000	1.5	2102	ECM	4	5.9	8	133 A	150 A	460 V	3	655672	439092	80.4	68.8	58.3	57.6	80	92.2	550260	38.8	72.7	50.0	42.2	11.50	125.0	PG	20	R-454B	520	336206	58	76	176.0	130.5	93.0	10538	1,2,3,4,5,6,7,8,9,10,11

NOTES:

1 REFER TO PROJECT MANUAL SECTION 237316 FOR ADDITIONAL REQUIREMENTS.
2 REFER TO PLANS & SCHEMATIC SHEETS FOR UNIT LAYOUT DETAILS.
3 PROVIDE FACTORY MOUNTED CONVENIENCE OUTLETS AND INTERNAL LIGHTS AT EACH ACCESS DOOR. PROVIDE CONVENIENCE OUTLET AND LIGHTS ON SEPARATE CIRCUIT.
4 MAXIMUM HEATING/COOLING COIL FACE VELOCITY SHALL BE 500 FPM.

NOTES:

5 MAXIMUM PRE FILTER AND PRIMARY FILTER FACE VELOCITY SHALL BE 500 FPM.
6 UNIT SHALL BE PROVIDED WITH INTERNAL REFRIGERANT LEAK DETECTION AND MITIGATION SYSTEM.
7 INCLUDE MODULATING HOT GAS REHEAT COIL.
8 HEAT WHEEL SHALL BE PROVIDED WITH PURGE PROTECTOR.

NOTES:

9 SINGLE POINT ELECTRICAL CONNECTION TO UNITS.
10 ENERGY RECOVERY SELECTED WITH A HEAT WHEEL WITH FACTORY INSTALLED VFD.
11 PROVIDE WITH 65 KAIC SCCR RATING.

23.72.00 - AIR-TO-AIR ENERGY RECOVERY EQUIPMENT SCHEDULE

		SUPPLY AIR DATA						EXHAUST AIR DATA						HEAT WHEEL				
		AIR FLOW		SUMMER				WINTER				AIR FLOW		SUMMER				ELECTRICAL
MARK	TYPE	CFM IN	CFM OUT	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	CFM IN	CFM OUT	EAT (°F) DB	EAT (°F) WB	EAT (°F) DB	EAT (°F) WB	HP	V	PH	Hz	NOTES
DOAS-01	ENTHALPY WHEEL	18,000	18,400	88.1	72.7	80.4	68.8	-2	-3	38.8	32.1	14,000	13,600	74	61.7	68	51.6	0.50	460	3	60	1,2,3,4,5,6,7,8,9,10,11
DOAS-02	ENTHALPY WHEEL	18,000	18,000	88.1	72.7	80.4	68.8	-2	-3	38.8	32.1	14,000	13,600	74	61.7	68	51.6	0.50	460	3	60	1,2,3,4,5,6,7,8,9,10,11

23.37.13 - DIFFUSERS, REGISTERS, AND GRILLES SCHEDULE

IDENTITY DATA			NECK SIZE	FACE SIZE		MAX CORE/ NECK VELO.	AIR FLOW	MAX N.C.	FRAME/ MOUNTING	REMARKS
MARK	DESCRIPTION	MANUFACTURER		W	L		MAX			
V	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	24"x16"	24"	16"	600 FPM	1,400	20	SEE REFLECTED CEILING PLAN	
EE	RETURN/EXHAUST GRILLE	TITUS 350	24"x24"	24"	24"	500 FPM	1,950	20	REFER TO REFLECTED CEILING PLAN	
A	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	5"ø	12"	12"	800 FPM	100	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
B	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"ø	12"	12"	800 FPM	150	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
C	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"ø	24"	24"	800 FPM	150	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
D	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	8"ø	24"	24"	800 FPM	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
D	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	8"ø	24"	24"	800 FPM	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
E	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	10"ø	24"	24"	800 FPM	450	25	REFER TO REFLECTED CEILING PLAN	<varies>
F	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	12"ø	24"	24"	800 FPM	625	25	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
G	ROUND SUPPLY DIFFUSER	TITUS TMR	20"ø			600 FPM	1,300	25	SEE REFLECTED CEILING PLAN	TWO DISCHARGE PATTERNS
H	ROUND SUPPLY DIFFUSER	TITUS TMR	30"ø			600 FPM	2,950	25	SEE REFLECTED CEILING PLAN	TWO DISCHARGE PATTERNS
I	SIDEWALL - SUPPLY GRILLE	TITUS 300	8"x8"	8"	8"	600 FPM	225	20	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
J	SIDEWALL - SUPPLY GRILLE	TITUS 300	12"x8"	12"	8"	600 FPM	340	20	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
K	SIDEWALL - SUPPLY GRILLE	TITUS 300	12"x10"	12"	10"	600 FPM	425	20	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
L	SIDEWALL - SUPPLY GRILLE	TITUS 300	12"x12"	12"	12"	600 FPM	500	20	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
M	SIDEWALL - SUPPLY GRILLE	TITUS 300	36"x20"	36"	20"	600 FPM	2,850	30	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
N	SIDEWALL - SUPPLY GRILLE	TITUS 300	48"x24"	48"	24"	600 FPM	4,500	30	SEE REFLECTED CEILING PLAN	22.5 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
O	LINEAR SLOT DIFFUSER	TITUS FL-20	13"/5"	48"			500	25	DUCT - W/ SAFETY CHAIN REFER TO FLOOR PLAN	JET THROW W/INSULATED PLENUM 2.0" SLOT WIDTH, TOTAL OF 1
P	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	6"x6"	6"	6"	600 FPM	150	15	REFER TO REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
Q	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	8"x8"	8"	8"	600 FPM	250	20	SEE REFLECTED CEILING PLAN	<varies>
R	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	10"x10"	10"	10"	600 FPM	350	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
S	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	12"x12"	12"	12"	600 FPM	525	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
T	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	14"x14"	14"	14"	600 FPM	725	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
U	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	16"x16"	16"	16"	600 FPM	950	20	SEE REFLECTED CEILING PLAN	<varies>
V	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	24"x16"	24"	16"	600 FPM	1,400	20	SEE REFLECTED CEILING PLAN	<varies>
W	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	36"x12"	36"	12"	500 FPM	1,500	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
X	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	48"x18"	48"	18"	500 FPM	3,000	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
Y	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	24"x36"	24"	36"	500 FPM	3,000	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
Z	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	48"x24"	48"	24"	500 FPM	4,000	20	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
AA	SIDEWALL - RETURN/EXHAUST GRILLE	TITUS 350	48"x72"	48"	72"	500 FPM	3,750	N/A	SEE REFLECTED CEILING PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
BB	RETURN/EXHAUST GRILLE	TITUS 350	12"x12"	12"	12"	600 FPM	525	20	REFER TO REFLECTED CEILING PLAN	<varies>
CC	RETURN/EXHAUST GRILLE	TITUS 350	12"x24"	12"	24"	600 FPM	1,050	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
CC	RETURN/EXHAUST GRILLE	TITUS 350	24"x12"	24"	12"	600 FPM	1,050	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
DD	RETURN/EXHAUST GRILLE	TITUS 350	16"x16"	16"	16"	600 FPM	950	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
EE	RETURN/EXHAUST GRILLE	TITUS 350	24"x24"	24"	24"	500 FPM	1,950	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.

23.34.23 - HVAC POWER VENTILATOR SCHEDULE

IDENTITY DATA					DESCRIPTION	PERFORMANCE DATA				ELECTRICAL DATA							
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	DRIVE	CFM	RPM	ESP (IN-WG)	MOTOR HP	VOLTS	PH	FREQ	FLA (A)	MCA (A)	DISCONNECT	CONTROLS	NOTES
EF-A01	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-A02	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-A03	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-A04	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-A05	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	600	1600	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-A06	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	600	1600	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-A07	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-B01	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	650	1700	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-B02	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	150	1635	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-B03	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	150	1635	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-B04	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-B05	GREENHECK	G-60-VG	36	DIRECT DRIVE ROOF MOUNTED FAN	DIRECT	75	1135	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	A	1,2,3,4,5
EF-B06	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-C01	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-C02	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-C03	GREENHECK	SQ-70-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	175	1300	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-C04	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	600	1600	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-C05	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	600	1600	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-C06	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	300	1500	0.3	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	C	1,2,3,4,6
EF-C07	GREENHECK	G-60-VG	36	DIRECT DRIVE ROOF MOUNTED FAN	DIRECT	75	1135	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	A	1,2,3,4,5
EF-C08	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-C09	GREENHECK	SQ-120-VG	61	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	750	1325	0.9	0.5	115 V	1	60	6.6	8.2	FACTORY MOUNTED	D	1,2,3,4,6
EF-D01	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	500	1300	0.15	0.13	115 V	1	60	2.8	3.6	FACTORY MOUNTED	C	1,2,3,4,6
EF-D02	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	400	1150	0.15	0.13	115 V	1	60	2.8	3.6	FACTORY MOUNTED	C	1,2,3,4,6
EF-D03	GREENHECK	G-70-VG	38	DIRECT DRIVE ROOF MOUNTED FAN	DIRECT	125	1300	0.25	0.1	115 V	1	60	1.6	1.9	FACTORY MOUNTED	A	1,2,3,4,5
EF-E01	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-E02	GREENHECK	SQ-60-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	100	1310	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-E03	GREENHECK	SQ-80-VG	34	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	350	1575	0.25	0.13	115 V	1	60	2.8	3.5	FACTORY MOUNTED	B	1,2,3,4,6
EF-E04	GREENHECK	G-60-VG	36	DIRECT DRIVE ROOF MOUNTED FAN	DIRECT	75	1375	0.25	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	A	1,2,3,4,5
EF-F01	GREENHECK	SQ-70-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	275	1700	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-F02	GREENHECK	G-70-VG	38	DIRECT DRIVE ROOF MOUNTED FAN	DIRECT	150	1300	0.25	0.1	115 V	1	60	1.6	1.9	FACTORY MOUNTED	A	1,2,3,4,5
EF-F03	GREENHECK	SQ-70-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	175	1300	0.15	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-G01	GREENHECK	SQ-70-VG	27	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	200	1500	0.25	0.06	115 V	1	60	1.3	1.6	FACTORY MOUNTED	B	1,2,3,4,6
EF-G02	GREENHECK	SQ-100-VG	55	DIRECT DRIVE CENTRIFUGAL INLINE FAN	DIRECT	800	1275	0.4	0.25	115 V	1	60	3.8	4.8	FACTORY MOUNTED	A	1,2,3,4,6

NOTES:

1 INCLUDE FACTORY MOUNTED DISCONNECT SWITCH.
2 INCLUDE BACKDRAFT DAMPER.
3 SUPPORT FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS.
4 REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.
5 MOUNT ON 12" HIGH ROOF CURB ABOVE FINISHED ROOF SURFACE. CONTRACTOR TO VERIFY ROOF INSULATION THICKNESS.
6 INCLUDE FACTORY MOUNTED AND WIRED SPEED CONTROL.

CONTROLS:

A AUTOMATIC OCCUPIED OPERATION BY LOCAL TEMPERATURE CONTROL ZONE
B AUTOMATIC OPERATION BY REVERSE-ACTING THERMOSTAT
C MANUAL CONTROLS WITH TIMER SWITCH BY DIVISION 26
D MANUAL CONTROLS WITH OPERATION OF FUME HOOD;SWITCH BY DIVISION 26

23.21.23 - HYDRONIC PUMP SCHEDULE

IDENTITY DATA					PERFORMANCE DATA								ELECTRICAL DATA			
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	FLOW RATE (GPM) PER PUMP	HEAD (ftH20)	NPSH	Brake HP	MOTOR HP	PUMP η (%)	SUCT. X DISCH.	IMPELLER DIAMETER	VOLTS	PH	FREQ	NOTES
CCP-1	Bell & Gossett	ECOCIRC XL 20-140	31	INLINE CIRCULATOR PUMP	65	10	0	0.3	0.5	58.8%	2 x 2		208 V	1	60	1,6,7
P-1	Bell & Gossett	E-1510-4GC	520	BASE MOUNTED END SUCTION HIGH EFFICIENCY PUMP	800	145	12	36.3	50	81.3%	5 x 4	13.375	460 V	3	60	1,2,3,4,5,6
P-2	Bell & Gossett	E-1510-4GC	520	BASE MOUNTED END SUCTION HIGH EFFICIENCY PUMP	800	145	12	36.3	50	81.3%	5 x 4	13.375	460 V	3	60	1,2,3,4,5,6

NOTES:

1 REFER TO PROJECT MANUAL SECTION 232123.
2 PUMP CONTROLLED BY VARIABLE FREQUENCY CONTROLLER.
3 SINGLE POINT POWER CONNECTION TO THE PUMP. PUMP DISCONNECT AND WIRING BETWEEN PUMP AND VFC BY DIVISION 26.

NOTES:

4 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD.
5 PUMPS WILL OPERATE LEAD/STANDBY (N+1).
6 PUMP WILL OPERATE WITH 20% PROPYLENE GLYCOL.
7 COIL CIRCULATOR PUMPS SHALL BE ENERGIZED ANYTIME THE OUTSIDE AIR TEMPERATURE IS BELOW 20 DEGREES F (ADJ.).

23.37.13 - EXTERIOR LOUVER SCHEDULE

IDENTITY DATA			AIRFLOW (CFM)	NECK SIZE	MIN FREE AREA (SF)	FREE AREA VELO. (FPM)	STATIC PD (IN-WC)	LOUVER TYPE	NOTES
MARK	DESCRIPTION	SERVICE							
WL-A01	DRAINABLE WALL LOUVER	EXHAUST AIR	600	28"x20"	1.7	361 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-A02	DRAINABLE WALL LOUVER	EXHAUST AIR	600	28"x20"	1.7	361 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-B01	DRAINABLE WALL LOUVER	EXHAUST AIR	650	28"x20"	1.7	361 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-C01	DRAINABLE WALL LOUVER	EXHAUST AIR	600	28"x20"	1.7	361 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-C02	DRAINABLE WALL LOUVER	EXHAUST AIR	300	16"x16"	0.6	485 FPM	0.04	WIND-DRIVEN RAIN	1,2,3,4,5
WL-C03	DRAINABLE WALL LOUVER	EXHAUST AIR	600	28"x20"	1.7	361 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-C04	DRAINABLE WALL LOUVER	EXHAUST AIR	750	28"x20"	1.7	451 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-E01	DRAINABLE WALL LOUVER	OUTSIDE AIR	16,000	120"x60"	30.8	585 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-E02	DRAINABLE WALL LOUVER	EXHAUST AIR	14,250	120"x48"	23.8	600 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-E03	DRAINABLE WALL LOUVER	EXHAUST AIR	14,250	120"x48"	23.8	600 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-G01	DRAINABLE WALL LOUVER	OUTSIDE AIR	725	24"x18"	0.9	683 FPM	0.07	WIND-DRIVEN RAIN	1,2,3,4,5
WL-G02	DRAINABLE WALL LOUVER	OUTSIDE AIR	200	12"x16"	0.4	476 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5
WL-G03	DRAINABLE WALL LOUVER	EXHAUST AIR	800	24"x18"	0.9	765 FPM	0.09	WIND-DRIVEN RAIN	1,2,3,4,5
WL-G04	DRAINABLE WALL LOUVER	EXHAUST AIR	200	12"x16"	0.4	476 FPM	0.05	WIND-DRIVEN RAIN	1,2,3,4,5

NOTES:

1 REFER TO SPECIFICATION SECTION 089119.
2 SEAL ALL AROUND WITH SILICONE.
3 REFER TO INSTALLATION DETAILS AND ARCHITECTURAL DRAWINGS.

NOTES:

4 CUSTOM COLOR TO BE SELECTED BY THE ARCHITECT/ENGINEER.
5 COORDINATE SIZE AND LOCATION WITH ALL TRADES AND ARCHITECTURAL ELEVATIONS.

23.82.39 - ELECTRIC DUCT HEATER SCHEDULE

IDENTITY DATA		UNIT DIMENSIONS		FAN DATA	HEATING PERFORMANCE				ELECTRICAL DATA				
MARK	TYPE	H	W	CFM	HEAT SOURCE	EAT (°F)	LAT (°F)	HEAT (kW)	VOLTS	PH	FREQ	NOTES
EDH-G01	ELECTRIC DUCT HEATER	12"	12"	725	ELECTRIC	0	47.5	10.8	208 V	3	60	1,2,3,4

NOTES

1 REFER TO SPECIFICATION 238239.
2 PROVIDE DISPOSABLE FILTER(S).
3 BUILT IN 2-STAGE STAT OPERATED BY AN INTERNAL 24 VOLT SOURCE (RANGE 40° - 90° F). SET AT 60° F.
4 FACTORY MOUNTED DISCONNECT SWITCH.

HVAC MISC. EQUIPMENT SCHEDULE

IDENTITY DATA			
MARK	MANUFACTURER	DESCRIPTION	NOTES
ADS-01	BELL & GOSSETT	8" COALESCING AIR & DIRT SEPARATOR. 800 GPM.	2,4
GT-01	VENTURE	GLYCOL FEED SYSTEM. 50 GALLONS	1,3
ST-01	MILLER - LEAMAN	HYDRONIC WATER SYSTEM STRAINER. DESIGN FLOW - 1300 GPM MAX. MODEL - MLS-8	1,2

NOTES:

1 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD.
2 REFER TO SPECIFICATION SECTION 232113.
3 REFER TO SPECIFICATION SECTION 232500.
4 SUPPORT FROM STRUCTURE ABOVE.

23.82.39 - UNIT HEATER SCHEDULE

IDENTITY DATA				UNIT DIMENSIONS			FAN DATA	HEATING PERFORMANCE			ELECTRICAL DATA				
MARK	MFG	WEIGHT (LBS)	TYPE	H	W	D	CFM	HEAT SOURCE	EAT (°F)	LAT (°F)	HEAT (kW)	VOLTS	PH	FREQ	NOTES
CUH-A01	RAYWALL	130	VERTICALL WALL MOUNTED	25"	46"	9"	500	ELECTRIC	60	110	8	460 V	3	60	1,2,3,5
CUH-A02	RAYWALL	99	VERTICALL WALL MOUNTED	25"	33"	9"	500	ELECTRIC	60	92	5	460 V	3	60	1,2,3,5
CUH-A03	RAYWALL	99	VERTICALL WALL MOUNTED	25"	33"	9"	250	ELECTRIC	60	98	3	460 V	3	60	1,2,3,5
CUH-B01	RAYWALL	130	VERTICALL WALL MOUNTED	25"	46"	9"	500

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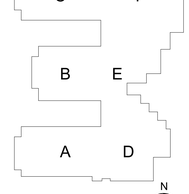


KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28th, 2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #4	11.24.2025

MECHANICAL SCHEMATICS

M-701

ELECTRIC BTU METER

The controller shall monitor the BTU meter thru BACnet integration for electric consumption on a continual basis. These values shall be made available to the system at all times.

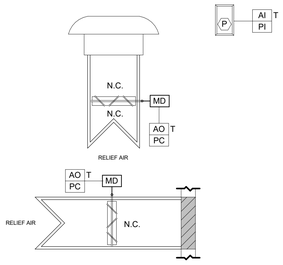
Alarm shall be generated as follows:
- Meter Failure: Sensor reading indicates a loss of pulse output from the BTU meter.

PEAK DEMAND HISTORY:
The controller shall monitor and record the peak (high and low) demand readings from the BTU meter. Peak readings shall be recorded on a daily, month-to-date, and year-to-date basis.

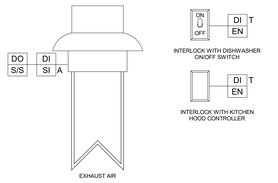
USAGE HISTORY:
The controller shall monitor and record BTU meter readings so as to provide a energy consumption history. Usage readings shall be recorded on a daily, month-to-date, and year-to-date basis.

12 ELECTRICAL BTU METER SCHEMATIC
NOT TO SCALE

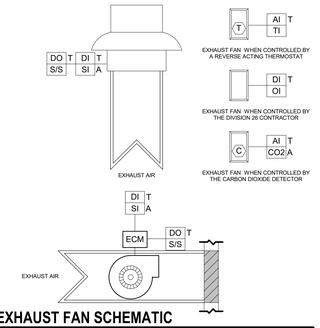
13 RELIEF ROOFTOP VENTILATOR AND WALL LOUVER SCHEMATIC
NOT TO SCALE



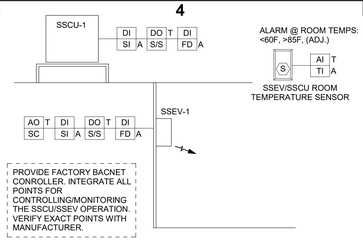
6 KITCHEN / DISHWASHER EXHAUST FAN SCHEMATIC
NOT TO SCALE



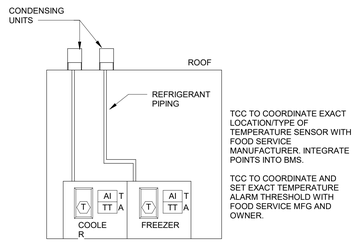
7 EXHAUST FAN SCHEMATIC
NOT TO SCALE



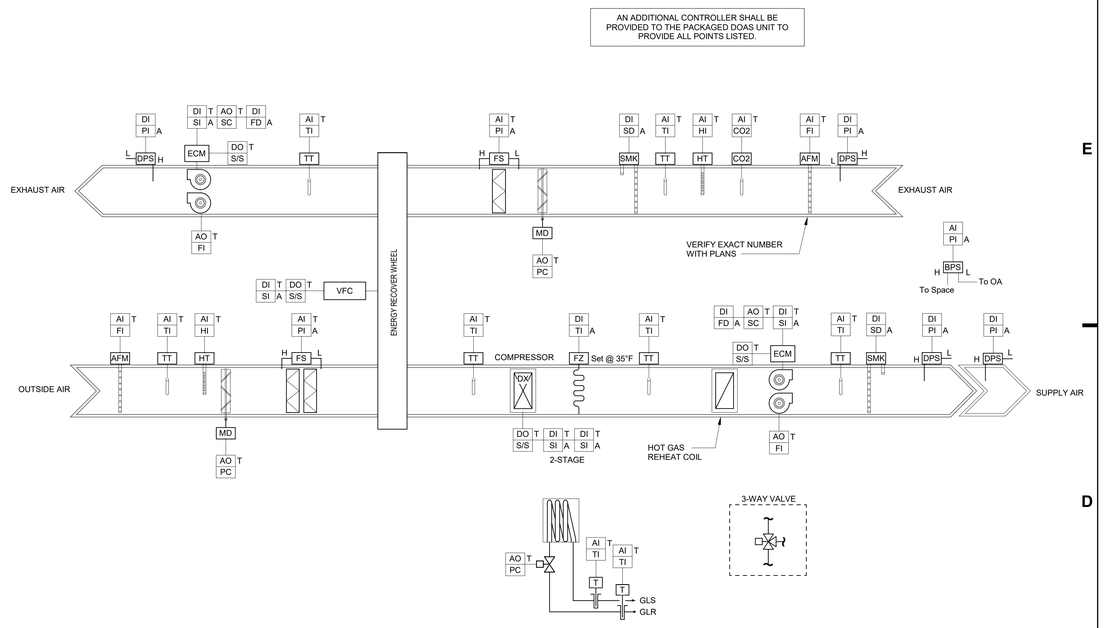
4 SSEV/SSCU SCHEMATIC
SCALE: 12" = 1'-0"



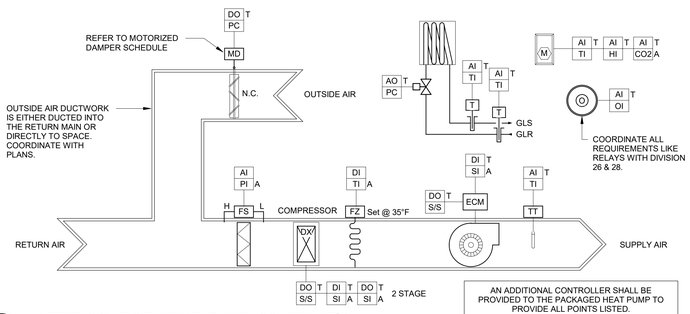
5 WALK-IN COOLER/FREEZER SCHEMATIC
SCALE: 1" = 1'-0"



1 TYPICAL DOAS SCHEMATIC
NOT TO SCALE



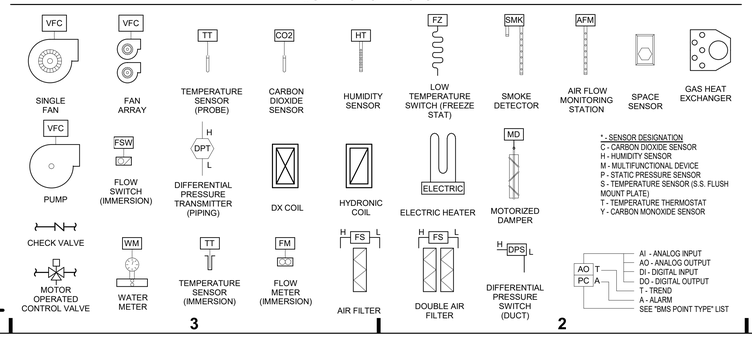
8 MAKE UP AIR UNIT
SCALE: 12" = 1'-0"



9 WATER SOURCE HEAT PUMP SCHEMATIC
NOT TO SCALE

2 VARIABLE PUMP CONTROL DIAGRAM
NOT TO SCALE

CONTROL SYMBOLS



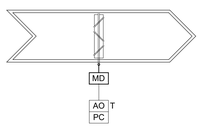
TEMPERATURE CONTROL SYMBOLS & ABBREVIATIONS

CONTROL ABBREVIATIONS
AFM - AIR FLOW MONITORING STATION
BSP - BUILDING STATIC PRESSURE
CO2 - CO2 LEVEL TRANSMITTER
CO - CO LEVEL TRANSMITTER
DPS - DIFFERENTIAL PRESSURE SWITCH
DPT - DIFFERENTIAL PRESSURE TRANSMITTER
FM - FLOW METER
FS - FILTER STATUS
FSW - FLOW SWITCH
FT - FLOW TRANSMITTER
FZ - FREEZESTAT
GCV - GAS CONTROL VALVE
HT - HUMIDITY TRANSMITTER
HTG - HEATING ELEMENT
LT - LEVEL TRANSMITTER
M - MOTOR
MD - MOTORIZED DAMPER
OCC - OCCUPANCY SENSOR
PKG - PACKAGED EQUIPMENT CONTROLLER
SMK - SMOKE DETECTOR
SNW - SNOW/ICE SENSOR
TCV - TEMPERATURE CONTROL VALVE
TT - TEMPERATURE TRANSMITTER
WM - WATER METER
VFC - VARIABLE FREQUENCY CONTROLER

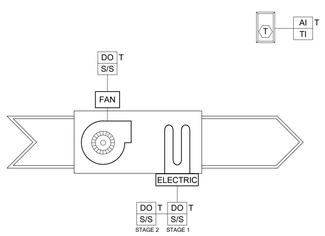
BMS POINT TYPE
BFR - BOILER FIRE-RATE %
CAP - EQUIPMENT CAPACITY SIGNAL
CO2 - CARBON DIOXIDE LEVEL
CO - CARBON MONOXIDE LEVEL
EN - EQUIPMENT ENABLE
FF - FLAME FAILURE
FI - FLOW INDICATE
FD - FAULT DETECTOR OR ALARM
HI - HUMIDITY INDICATE
LI - LEVEL INDICATE
O/C - OPEN/CLOSE (DAMPER/VALVE)
OI - OCCUPIED/UNOCCUPIED INDICATE
PC - POSITION CONTROL (DAMPER/VALVE)
PI - PRESSURE INDICATE
SC - SPEED CONTROL
SI - STATUS INDICATOR
SD - SMOKE DETECTOR
SNW - SNOW/ICE INDICATE
SO - SPACE OVERRIDE (OCCU./UNOCCU.)
SPT - SETPOINT SIGNAL
S/S - START/STOP
STR - SETPOINT RESET
TI - TEMPERATURE INDICATE
TIH - HIGH TEMPERATURE INDICATE
TIL - LOW TEMPERATURE INDICATE
TS - TIMER SWITCH
ZI - POSITION INDICATE

*** - SENSOR DESIGNATION**
C - CARBON DIOXIDE SENSOR
H - HUMIDITY SENSOR
M - MULTIFUNCTIONAL DEVICE
P - STATIC PRESSURE SENSOR
S - TEMPERATURE SENSOR (S.S. FLUSH MOUNT PLATE)
T - TEMPERATURE THERMOSTAT
Y - CARBON MONOXIDE SENSOR

14 MOTORIZED DAMPER SCHEMATIC
NOT TO SCALE



11 ELECTRIC CABINET / PROPELLER UNIT HEATER SCHEMATIC
NOT TO SCALE



10 ELECTRIC DUCT HEATER SCHEMATIC
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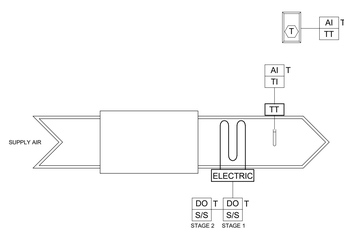

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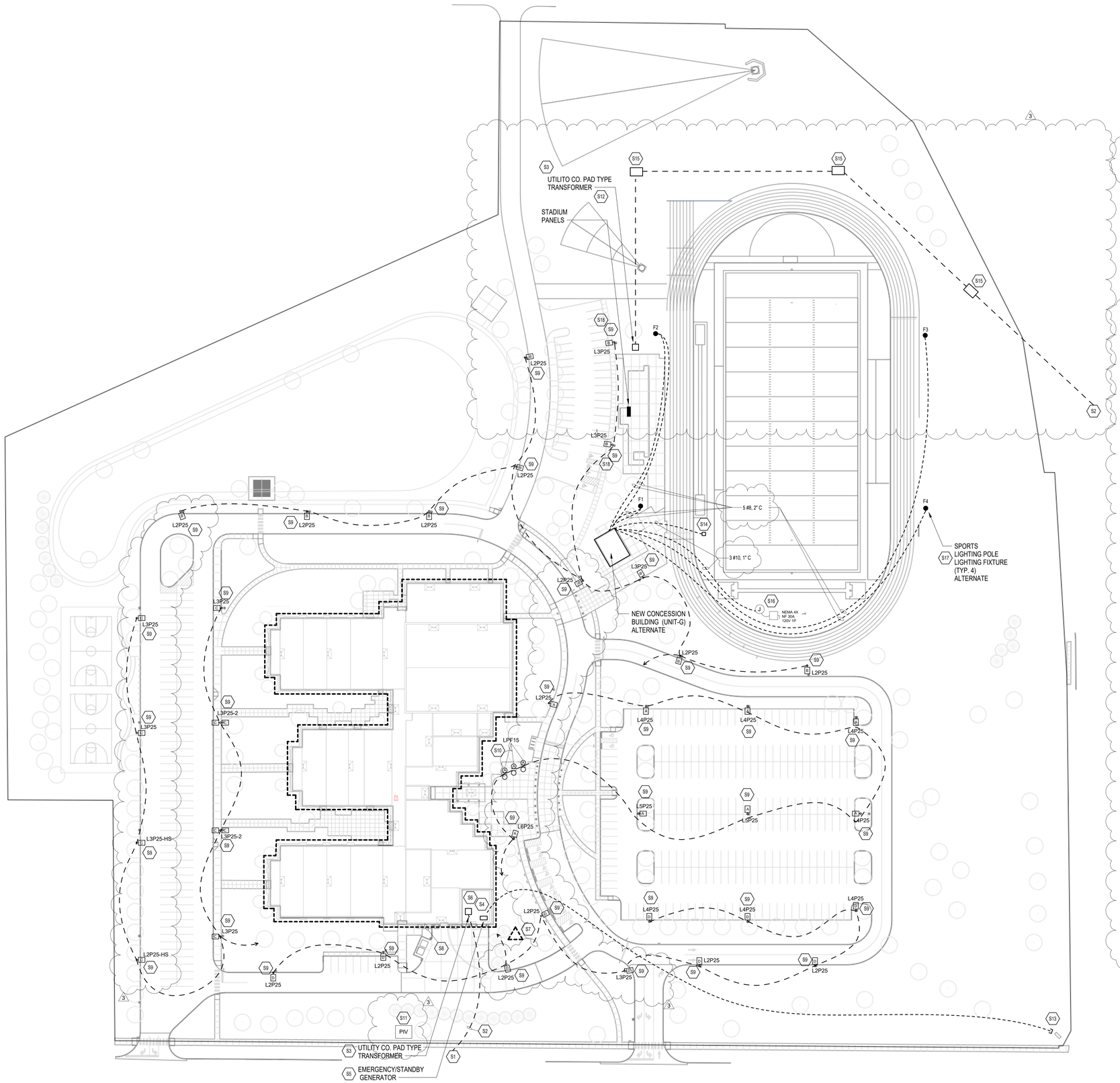

ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

ELECTRICAL SITE PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
3. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
4. REFER TO CIVIL AND ARCHITECTURAL SITE PLANS FOR LOCATION OF REFERENCED EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
5. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
6. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR, MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
7. PROVIDE #8 AWG COPPER CONDUCTORS AND 1" PVC SCHEDULE 40 CONDUIT AS MINIMUM SIZE FOR ALL SITE CIRCUITRY UNLESS OTHERWISE NOTED.

ELECTRICAL SITE PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

S1	PROPOSED PICK-UP POINT FOR NEW UTILITY CO. UNDERGROUND PRIMARY ELECTRIC SERVICE AT EXISTING UTILITY POLE. VERIFY PICK-UP POINT WITH UTILITY CO.
S2	PROVIDE CONDUITS AS REQUIRED FOR UNDERGROUND PRIMARY ELECTRIC CONDUIT. PROVIDE RISER CONDUIT AT UTILITY POLE AS REQUIRED BY UTILITY. COORDINATE ALL REQUIREMENTS WITH NIPSCO PRIOR TO INSTALLATION.
S3	UTILITY CO. PAD MOUNT TYPE TRANSFORMER FURNISHED AND INSTALLED BY UTILITY CO. DIVISION 26 TO PROVIDE CAST-IN-PLACE CONCRETE PAD FOR TRANSFORMER AND SUB-GRADE CAST-IN-PLACE CONCRETE BOX FOR CONDUIT ENTRY/EXIT PER UTILITY CO. SPECIFICATIONS. COORDINATE LOCATION OF TRANSOFRMER PAD AND STUB-UP LOCATION FOR PRIMARY AND SECONDARY ELECTRIC SERVICE CONDUITS WITH UTILITY CO. PRIOR TO INSTALLATION OF PAD, SUB-GRADE CONCRETE BOX, AND TRANSFORMER. FINAL PAD LOCATION TO MAINTAIN A MINIMUM OF 5'-0" CLEARANCE ON ALL SIDES OF TRANSFORMER OR AS DETERMINED BY UTILITY.
S4	PROVIDE APPROVED ELECTRIC METER BASE ON EQUIPMENT YARD WALL WITH 2" RMC CONDUIT TO THE UTILITY TRANSFORMER. COORDINATE FINAL METER LOCATION. CONDUIT STUB-UP LOCATION AT TRANSFORMER, AND ALL INSTALLATION REQUIREMENTS WITH UTILITY CO. PRIOR TO ROUGH-IN.
S5	EMERGENCY/STANDBY GENERATOR. REFER TO SPECIFICATION SECTION 26 32 13 AND SHEETS "E-501" AND "E-701" FOR ADDITIONAL EQUIPMENT, CONNECTION, AND CONDUIT/FEEDER REQUIREMENTS. INSTALL UNDERGROUND FEEDERS TO AUTOMATIC TRANSFER SWITCHES IN ROOM D103, INDICATED ON SHEET "E-402".
S6	UNDERGROUND SECONDARY ELECTRIC SERVICE CONDUITS FROM UTILITY CO. TRANSFORMER AND EMERGENCY/STANDBY SERVICE CONDUITS FROM GENERATOR AT 30" BELOW FINISH GRADE. RUN TO SERVICE EQUIPMENT IN ROOMS D102 AND D103 ACCORDINGLY. REFER TO SHEET "E-701" FOR CONDUIT/FEEDER REQUIREMENTS. COORDINATE ROUTING PRIOR TO INSTALLATION.
S7	GROUNDING FIELD AND CONNECTION TO BUILDING PERIMETER GROUND RING. REFER TO DETAILS ON SHEET "E-501" FOR REQUIREMENTS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS AND OTHER SITE FEATURES IN THIS AREA.
S8	BUILDING PERIMETER GROUND RING. REFER TO SPECIFICATION SECTION 26 05 26 AND DETAILS ON SHEET "E-501" FOR REQUIREMENTS. COORDINATE EXACT ROUTING WITH ALL UNDERGROUND UTILITIES TO RUN GROUNDING CONDUCTOR CONTINUOUSLY AROUND BUILDING PERIMETER. CONNECT TO MAIN SERVICE GROUNDING BUSBAR IN ROOM D102.
S9	INSTALL SITE LIGHTING POLE FOUNDATION WITH 2'-6" EXPOSED CONCRETE ABOVE FINISH GRADE. REFER TO POLE FOUNDATION DETAIL ON SHEET "E-501". CONNECT ALL LIGHTS LABELED "A" TO CIRCUIT XAH1-2, LIGHTS LABELED "B" TO CIRCUIT XAH1-4, LIGHTS LABELED "C" TO CIRCUIT XAH1-6, AND LIGHTS LABELED "D" TO CIRCUIT XAH1-8. RUN ALL SITE LIGHTING CIRCUITS THROUGH LIGHTING CONTACTOR "LC-2", LOCATED ADJACENT TO PANELBOARD "XAH1" IN ROOM D103. COORDINATE INSTALLATION WITH APPLICABLE DIVISIONS AS REQUIRED.
S10	MOUNT FLAG POLE LIGHT FIXTURES AT 15'-0" ABOVE FINISH GRADE. STUB-UP CONDUITS WITHIN FLAG POLE BASE. CONNECT TO CIRCUIT XAH1-2 VIA LIGHTING CONTACTOR "LC-3". COORDINATE INSTALLATION WITH APPLICABLE DIVISIONS AS REQUIRED.
S11	APPROXIMATE LOCATION OF POST INDICATOR VALVE. COORDINATE EXACT LOCATION IN FIELD.
S12	REFER TO STADIUM ONE-LINE DIAGRAM ON SHEET "E-701" FOR MORE INFORMATION.
S13	BURIED 1" CONDUIT TO FUTURE MESSAGE BOARD LOCATION. STUB UP IN ROOM D102. PROVIDE PULL STRING.
S14	IN GROUND 2-GANG, FOUR DUPLEX SPORTS FIELD POWER TO BE CONNECTED TO CIRCUIT GL1-27.
S15	NORTHWEST SPORTS LIGHTING POLE TO ACCOMODATE (2) DISTRICT-WIDE REPEATERS ON RADIO ANTENNA. ANTENNA TO REACH 110FT ABOVE GRADE. IF ANTENNATE IS NOT TAKEN, RADIO ANTENNA TO BE INSTALLED ON POLE IN THIS LOCATION.
S16	STADIUM SCOREBOARD. CONNECT TO CIRCUIT GL1-29 VIA BURIED CONDUIT. STUB UP TO PANEL IN ROOM G106.
S17	SPORTING LIGHTING IS AN ALTERNATE. IF SPORTS LIGHTING ALTERNATE IS NOT TAKEN BUT CONCESSION STAND IS, RUN UNDERGROUND CONDUITS FROM GL1 OUT BEYOND CONCRETE WALKWAY FOR FUTURE INSTALLMENT OF SPORTS LIGHTING.
S18	STADIUM PARKING LOT LIGHTING IS AN ALTERNATE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10800018 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

ELECTRICAL SITE PLAN

ES101

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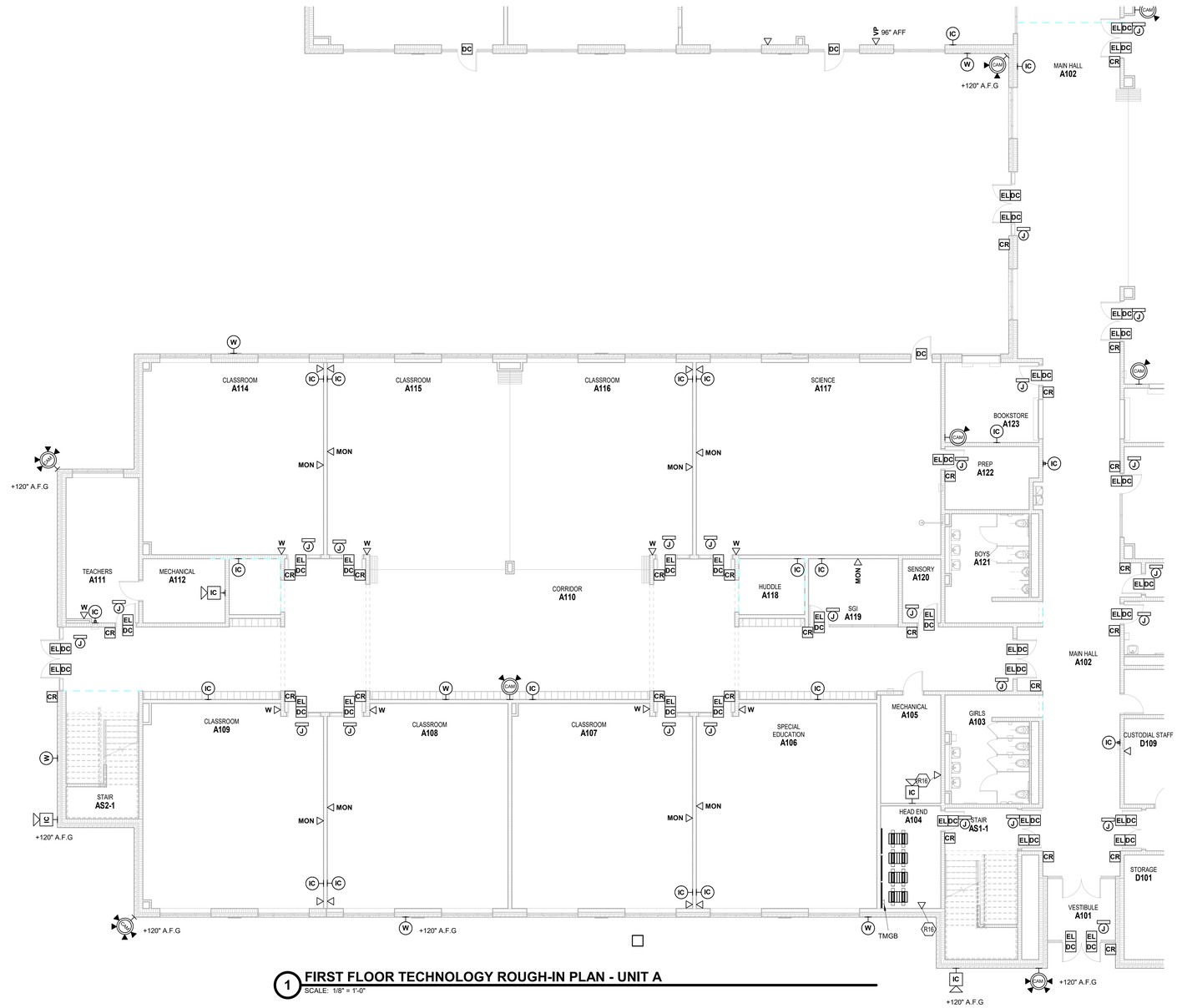

1 FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A104	B111	HEAD END	151 SF
A105	C102	MECHANICAL	159 SF
A106	C104	SPECIAL EDUCATION	891 SF
A107	C108	CLASSROOM	889 SF
A108	C110	CLASSROOM	892 SF
A109	C112	CLASSROOM	885 SF
A110	C100	CORRIDOR	2370 SF
A111	C114	TEACHERS	255 SF
A112	C114A	MECHANICAL	129 SF
A113	C113	HUDDLE	70 SF
A114	C111	CLASSROOM	843 SF
A115	C109	CLASSROOM	889 SF
A116	C107	CLASSROOM	889 SF
A117	C106	SCIENCE	1148 SF
A118	C105	HUDDLE	90 SF
A119	C103	SGI	147 SF
A120	C101	SENSORY	60 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
AS2-1	STAIR C	STAIR	220 SF
B101	A100	MAIN HALL	2209 SF
B103	D101	MEDIA CENTER	1827 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
D101	B110B	STORAGE	196 SF
D104	B110	CORRIDOR	191 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D121	B104	KITCHEN / SERVING	2365 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

R16	PROVIDE DATA FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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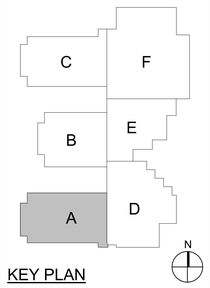

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

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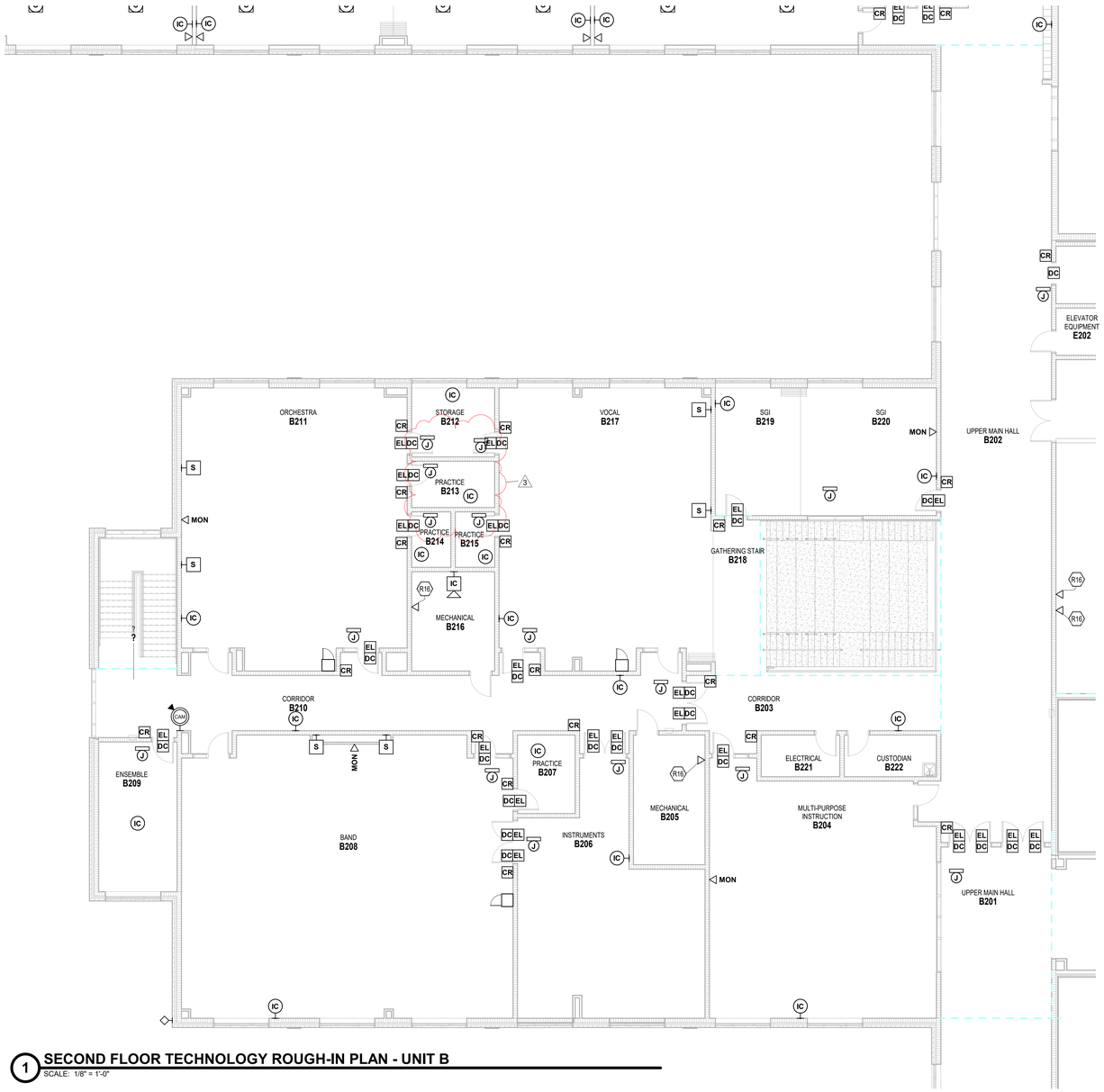

1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
B201	B200	UPPER MAIN HALL	398 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	D205	MECHANICAL	195 SF
B206	D206	INSTRUMENTS	765 SF
B207	D207A	PRACTICE	95 SF
B208	D207	BAND	1902 SF
B209	D209	ENSEMBLE	247 SF
B210	D200	CORRIDOR	843 SF
B211	D208	ORCHESTRA	1271 SF
B212	D208C	STORAGE	120 SF
B213	D208B	PRACTICE	81 SF
B214	D208A	PRACTICE	46 SF
B215	D204A	PRACTICE	46 SF
B216	D200C	MECHANICAL	173 SF
B217	D204	VOCAL	1202 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
BS1-2	STAIR D	STAIR	216 SF
C201	A200	UPPER MAIN HALL	1343 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
E201	A201	MECHANICAL	1999 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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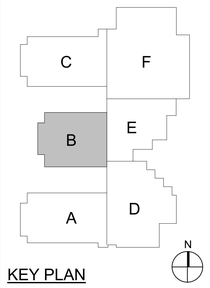

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10200 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025
3	ADDENDUM NO. 4	11/24/2025

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT B

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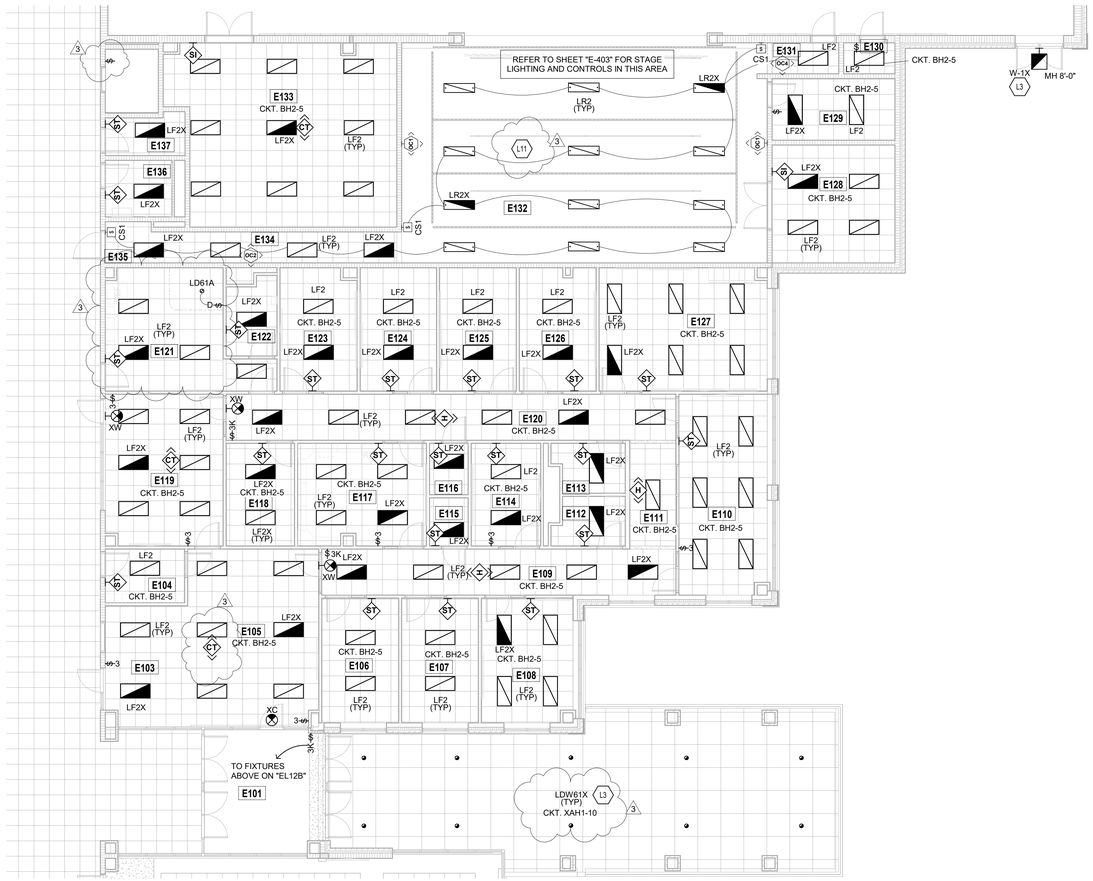

FIRST FLOOR LIGHTING PLAN - UNIT E

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
D124	CAFETERIA	4442 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	184 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.
L11	CONNECT EMERGENCY AND NORMAL LIGHTING IN THIS ROOM THROUGH THEATRICAL RELAY PANEL "PNL2". SEE STAGE LIGHTING ONE-LINE FOR ADDITIONAL INFORMATION.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XBH1-3.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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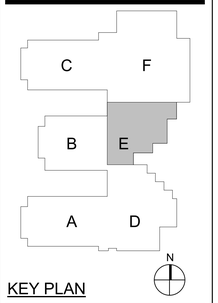

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800026 STATE OF IN PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

FIRST FLOOR LIGHTING PLAN - UNIT E

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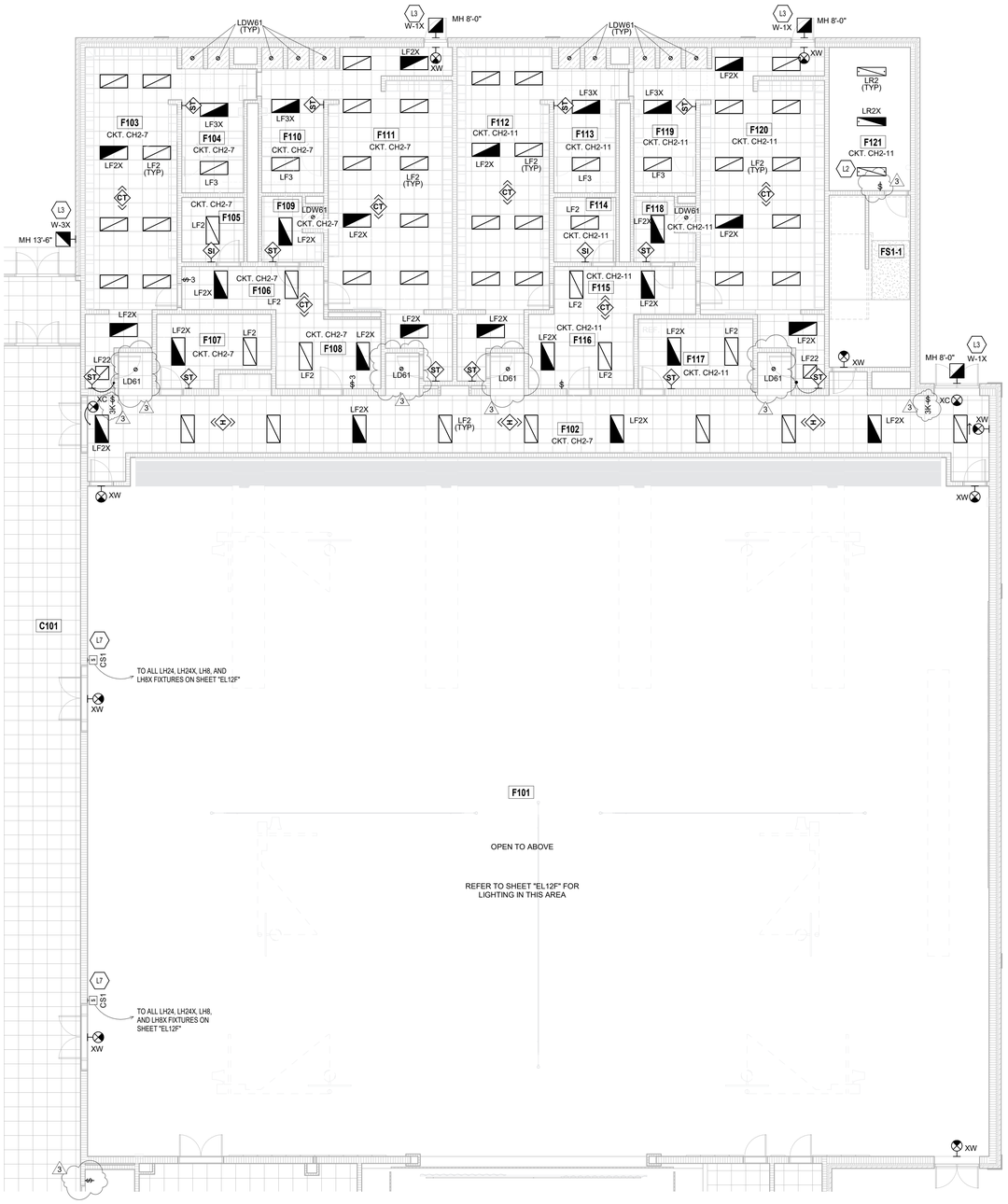

FIRST FLOOR LIGHTING PLAN - UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C124	VESTIBULE	116 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L2	COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT.
L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.
L7	SEE GYM / STAGE CONTROL DETAIL "3A/E-503" FOR MORE INFORMATION.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XCH1-3.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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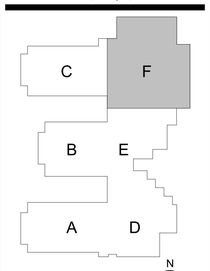

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19930000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

FIRST FLOOR LIGHTING PLAN - UNIT F

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SECOND FLOOR LIGHTING PLAN UNIT C

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	227 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L1	DIMMER SWITCH "A" TO CONTROL THE ROW OF LIGHT FIXTURES AT THE TEACHING WALL AND DIMMER SWITCH "B" TO CONTROL ALL THE OTHER LIGHT FIXTURES IN THE ROOM.
L3	CONNECT EXTERIOR LIGHT FIXTURE TO CIRCUIT XAH1-9. ALL EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED AUTOMATICALLY BY BUILDING MANAGEMENT SYSTEM AND WIRED THRU LIGHTING CONTACTOR "LC-1" LOCATED ADJACENT TO PANELBOARD XAH1 IN ROOM D103. ALL CONDUIT SHALL BE INSTALLED IN A CONCEALED MANNER AND CONDUCTORS SIZED TO ACCOUNT FOR VOLTAGE DROP.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XCH1-2.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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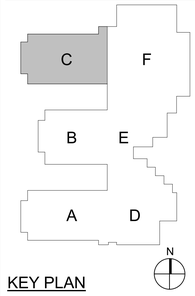

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR LIGHTING PLAN - UNIT C

EL12C

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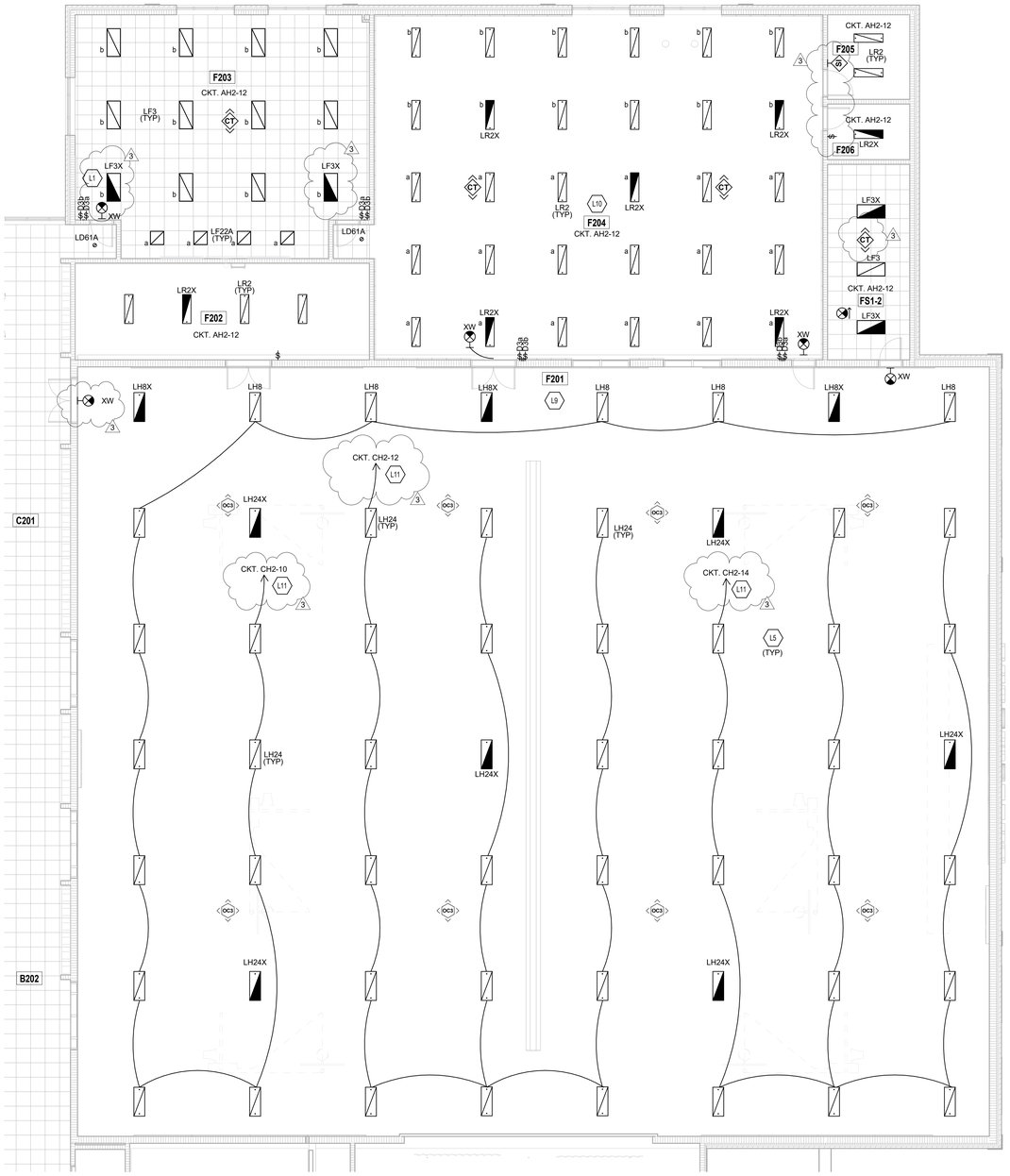

SECOND FLOOR LIGHTING PLAN UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
E201	MECHANICAL	1995 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	FITNESS	2985 SF
F205	STORAGE	133 SF
F206	ELECTRICAL	87 SF
FS1-2	STAIR	307 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L1	DIMMER SWITCH "A" TO CONTROL THE ROW OF LIGHT FIXTURES AT THE TEACHING WALL AND DIMMER SWITCH "B" TO CONTROL ALL THE OTHER LIGHT FIXTURES IN THE ROOM.
L5	MOUNT LIGHT FIXTURES IN GYM AT 28'-0" AFF. SEE DETAIL"3A/E-503" FOR INFORMATION ON CONTROLS.
L9	LIGHTS "LH8/X" SUSPENDED ABOVE ABOVE BALCONY SHALL BE MOUNTED AT SAME HEIGHT AS MAIN GYM LIGHTS.
L10	LIGHTS IN THIS ROOM SHALL BE MOUNTED AT 9'-0"A.F.F.
L11	CONNECT EMERGENCY AND NORMAL LIGHTING IN THIS ROOM THROUGH THEATRICAL RELAY PANEL "PNLZ". SEE STAGE LIGHTING ONE-LINE FOR ADDITIONAL INFORMATION.

NOTE: ALL EMERGENCY AND EXIT LIGHTS SHOWN ON THIS SHEET SHALL BE CONNECTED TO CKT. XCH1-2 AND XCH1-5. SEE PANELBOARD SCHEDULE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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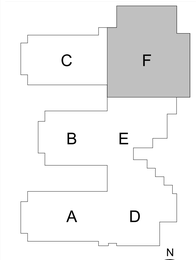

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19930008 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR LIGHTING PLAN - UNIT F

EL12F

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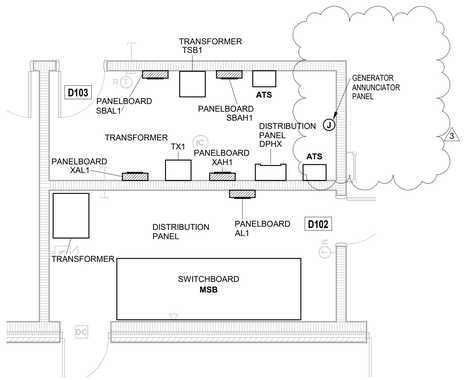
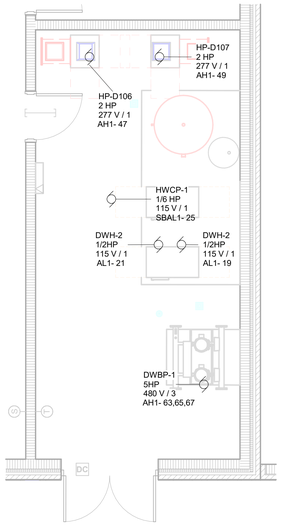


ENLARGED ELECTRICAL ROOMS D102 AND D103

2 SCALE: 1/4" = 1'-0"

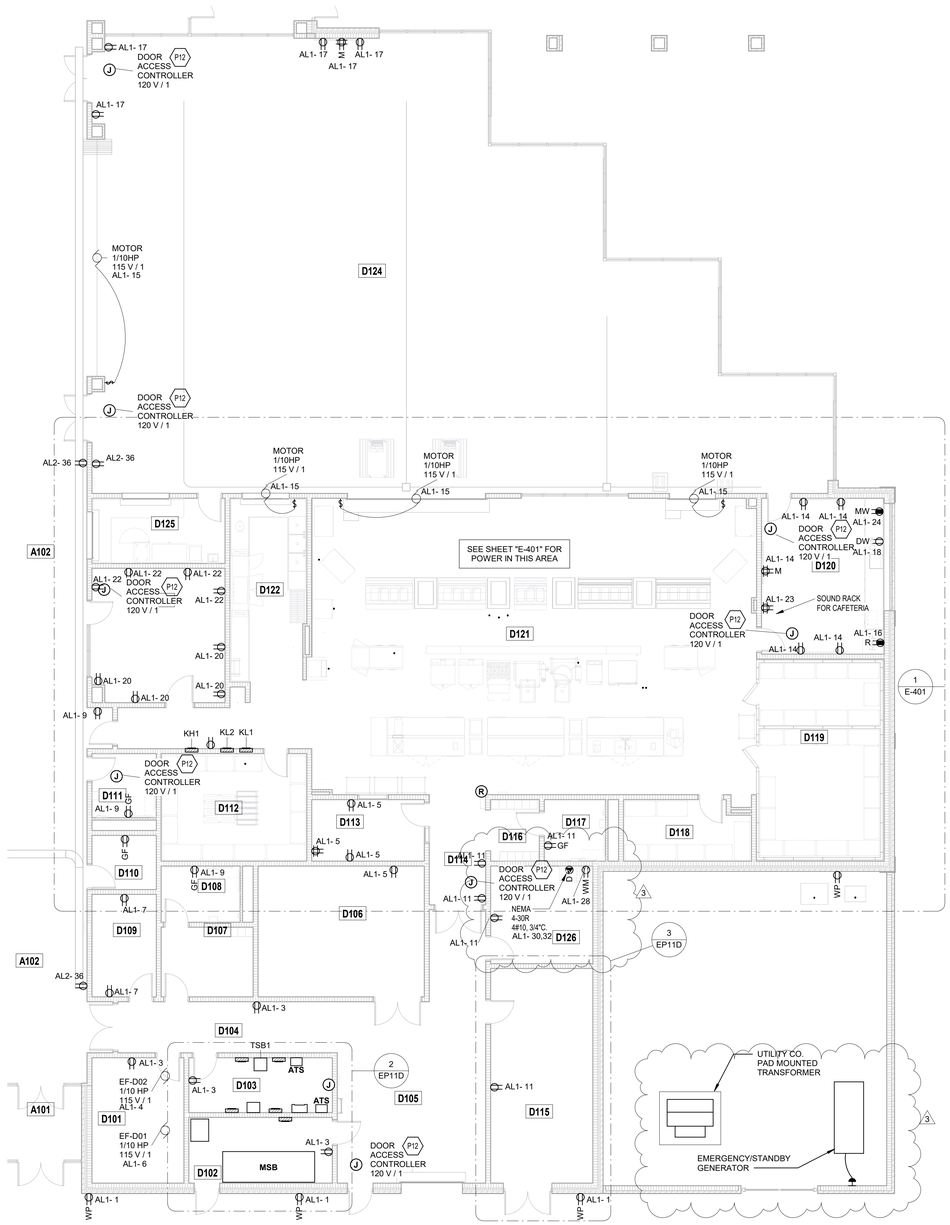


ENLARGED MECHANICAL ROOM D115

3 SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.



FIRST FLOOR POWER PLAN UNIT D

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	VESTIBULE	107 SF
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D101	STORAGE	196 SF
D102	ELECTRICAL	161 SF
D103	ELECTRICAL	134 SF
D104	CORRIDOR	191 SF
D105	RECEIVING	547 SF
D106	STORAGE	370 SF
D107	LOCKERS	109 SF
D108	RESTROOM	76 SF
D109	CUSTODIAL STAFF	112 SF
D110	CUSTODIAN	59 SF
D111	RESTROOM	70 SF
D112	DRY STORAGE	267 SF
D113	OFFICE	118 SF
D114	CORRIDOR	106 SF
D115	BUILDING SERVICES	373 SF
D116	LOCKERS	55 SF
D117	RESTROOM	64 SF
D118	STORAGE	127 SF
D119	COOLER / FREEZER	439 SF
D120	FACULTY DINING	325 SF
D121	KITCHEN / SERVING	2365 SF
D122	DISHWASHING	236 SF
D123	HYDROPONICS	301 SF
D124	CAFETERIA	4442 SF
D125	ALA CART	148 SF
D126	STORAGE	170 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 /N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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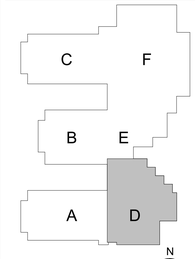

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

FIRST FLOOR POWER PLAN - UNIT D

EP11D

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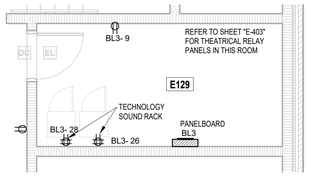
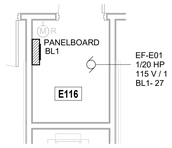


2 ENLARGED SOUND LIGHT ELECTRICAL ROOM E129

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



3 ENLARGED ELECTRICAL ROOM E116

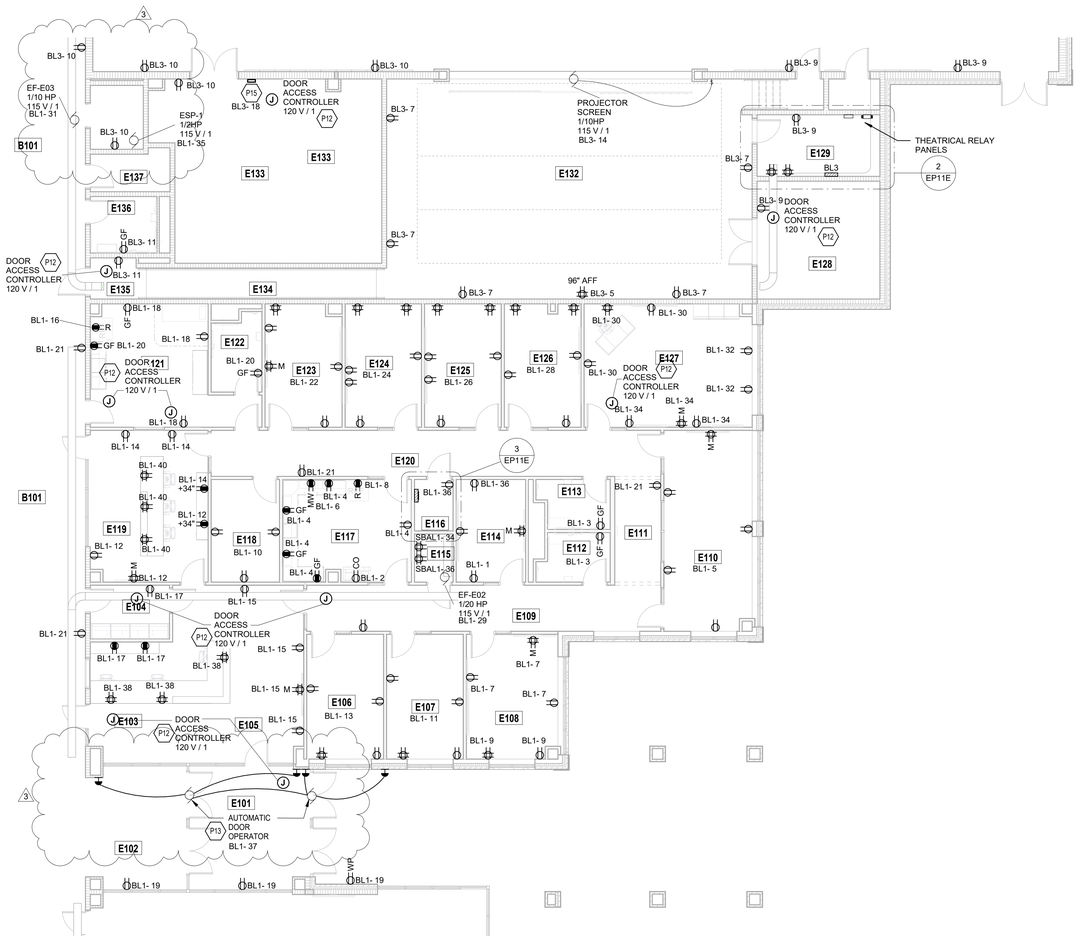
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	MAIN HALL	1968 SF
B101	MAIN HALL	2209 SF
D124	CAFETERIA	4442 SF
E101	VESTIBULE	260 SF
E102	CORRIDOR	213 SF
E103	ATTENDANCE	164 SF
E104	MAIL	72 SF
E105	ADMIN RECEPTION	400 SF
E106	TREASURER	163 SF
E107	ASSISTANT PRINCIPAL	163 SF
E108	PRINCIPAL OFFICE	191 SF
E109	CORRIDOR	278 SF
E110	LARGE CONFERENCE	299 SF
E111	CORRIDOR	85 SF
E112	STAFF RR	57 SF
E113	STAFF RR	57 SF
E114	SMALL CONFERENCE	121 SF
E115	TECHNOLOGY	32 SF
E116	ELECTRICAL	34 SF
E117	WORK ROOM	222 SF
E118	FILES	119 SF
E119	RECEPTION	301 SF
E120	CORRIDOR	352 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F101	GYMNASIUM	12261 SF



FIRST FLOOR POWER PLAN UNIT E

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P13	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS, AND KEYED SWITCH BY THE UNIT MANUFACTURER CONDUITS, WIRING, AND BACKBOXES BY THE DIVISION 26 CONTRACTORS PER THE MANUFACTURERS REQUIREMENT. VERIFY THE EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
P15	BACKSTOP AND DIVIDER CURTAIN TOUCH PAD. PROVIDE POWER AND CONTROL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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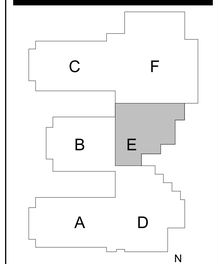

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

FIRST FLOOR POWER PLAN - UNIT E

EP11E

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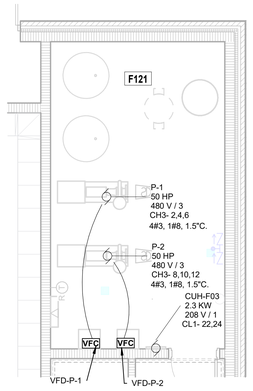
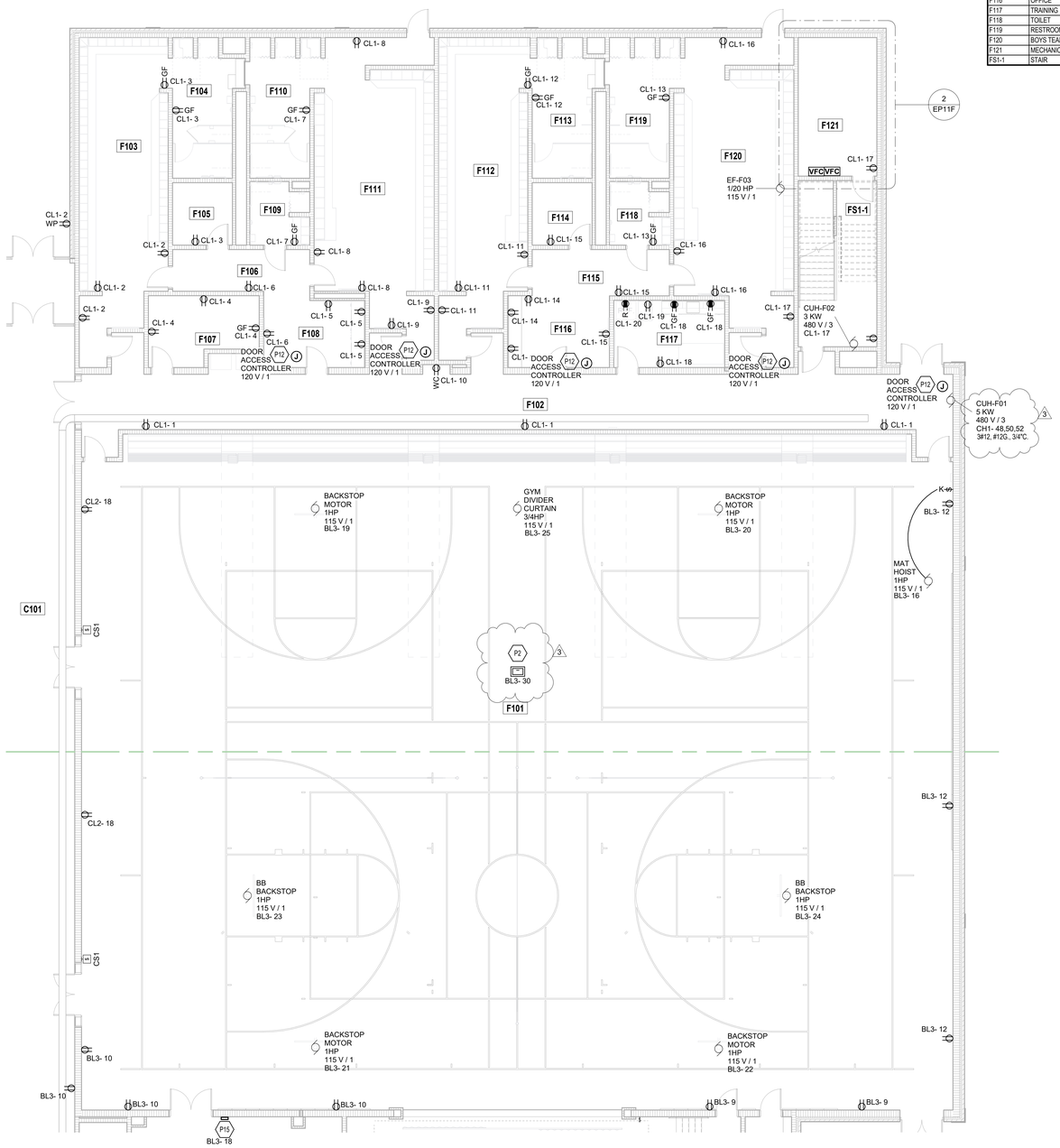


2 ENLARGED MECHANICAL ROOM F121

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

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.



FIRST FLOOR POWER PLAN UNIT F

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
C124	VESTIBULE	116 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
F101	GYMNASIUM	12261 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F104	RESTROOM	178 SF
F105	ATHLETIC STORAGE	78 SF
F106	CORRIDOR	122 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F109	TOILET	73 SF
F110	RESTROOM	175 SF
F111	GIRLS TEAM LOCKERS	695 SF
F112	BOYS PE LOCKERS	543 SF
F113	RESTROOM	175 SF
F114	ATHLETIC STORAGE	78 SF
F115	CORRIDOR	136 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F118	TOILET	73 SF
F119	RESTROOM	175 SF
F120	BOYS TEAM LOCKER	705 SF
F121	MECHANICAL	228 SF
FS1-1	STAIR	265 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P2	FLUSH MOUNTED FLOOR POCKET. REFER TO DETAIL "1/AE5.02" FOR REQUIREMENTS INSTALL SO THAT TOP SURFACE OF FLOOR POCKET COVER IS ABSOLUTELY FLUSH AND LEVEL WITH FINISH FLOOR SURFACE.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P15	BACKSTOP AND DIVIDER CURTAIN TOUCH PAD. PROVIDE POWER AND CONTROL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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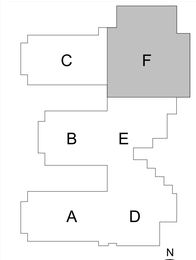

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

FIRST FLOOR POWER PLAN - UNIT F

EP11F

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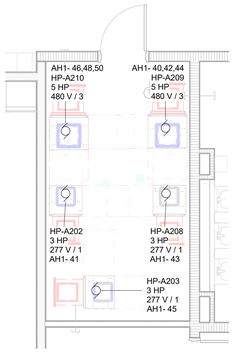
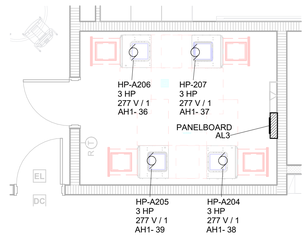


3 ENLARGED MECHANICAL ROOM A204

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



2 ENLARGED MECHANICAL ROOM A211

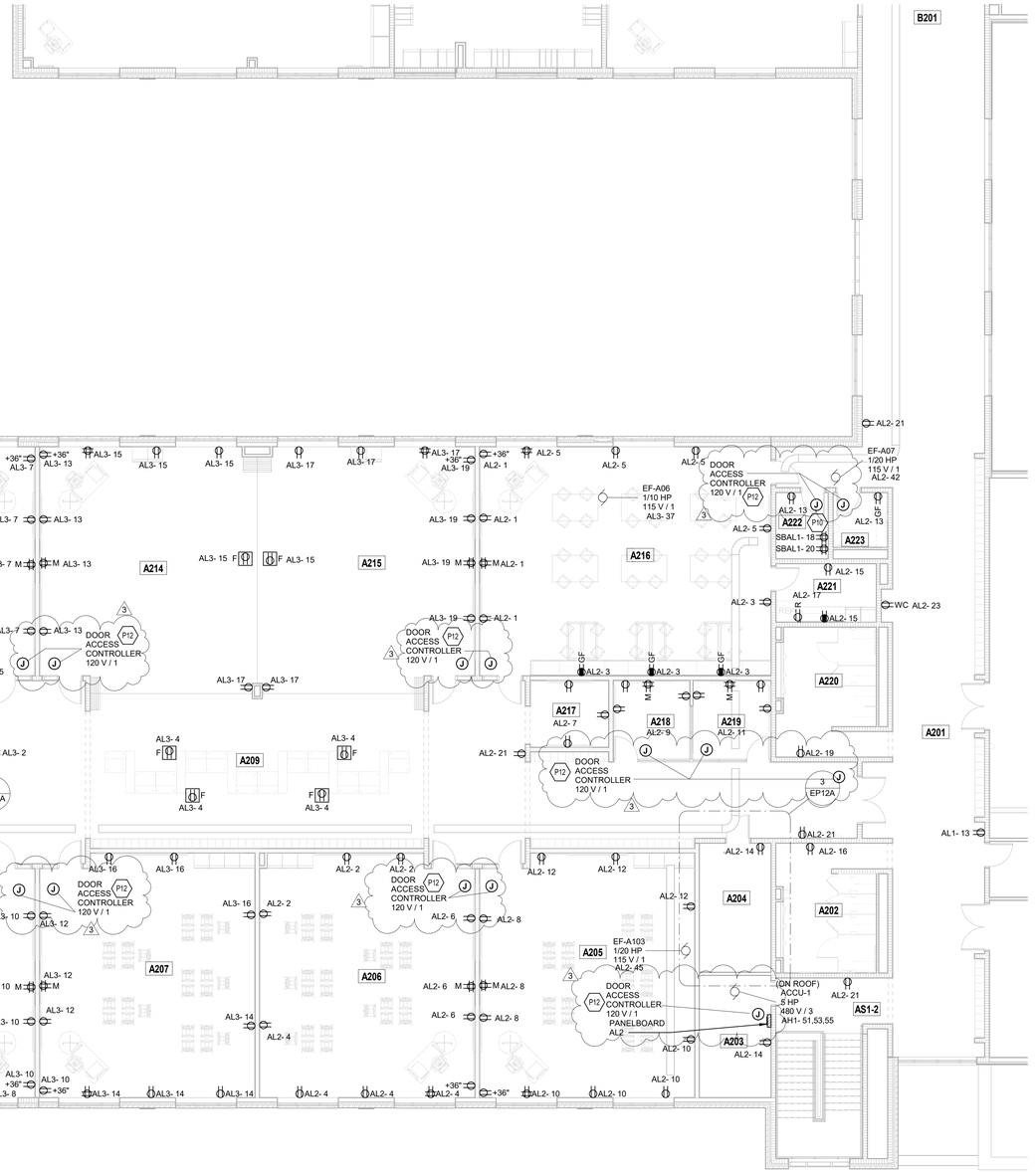
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
A202	GIRLS	217 SF
A203	STORAGE	151 SF
A204	MECHANICAL	159 SF
A205	SPECIAL ED	801 SF
A206	CLASSROOM	889 SF
A207	CLASSROOM	892 SF
A208	CLASSROOM	885 SF
A209	COLLABORATION	2366 SF
A210	TEACHERS	238 SF
A211	MECHANICAL	129 SF
A212	HUDDLE	73 SF
A213	CLASSROOM	843 SF
A214	CLASSROOM	889 SF
A215	CLASSROOM	889 SF
A216	SCIENCE	1147 SF
A217	HUDDLE	93 SF
A218	SGI	107 SF
A219	SGI	109 SF
A220	BOYS	217 SF
A221	PREP	101 SF
A222	E / T	60 SF
A223	RESTROOM	52 SF
AS1-2	STAIR	293 SF
AS2-2	STAIR	227 SF
B201	UPPER MAIN HALL	398 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B206	INSTRUMENTS	765 SF
B208	BAND	1902 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF



SECOND FLOOR POWER PLAN UNIT A

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P10	TECHNOLOGY RACK(IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR. PROVIDE TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

3

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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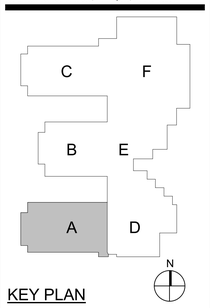
350 E. New York St. Suite 300, Indianapolis, Indiana 46204



KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED PROFESSIONAL ENGINEER No. PE10802005 STATE OF INDIANA

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT A

EP12A

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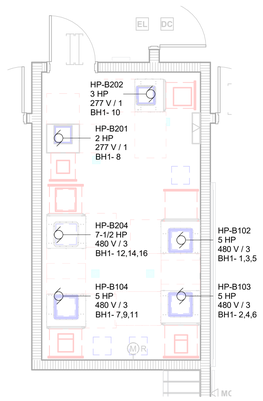
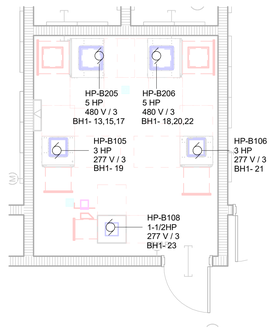


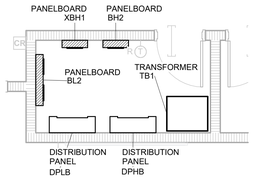
3 ENLARGED MECHANICAL ROOM B205

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



4 ENLARGED MECHANICAL ROOM B216

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



2 ENLARGED MECHANICAL ROOM B221

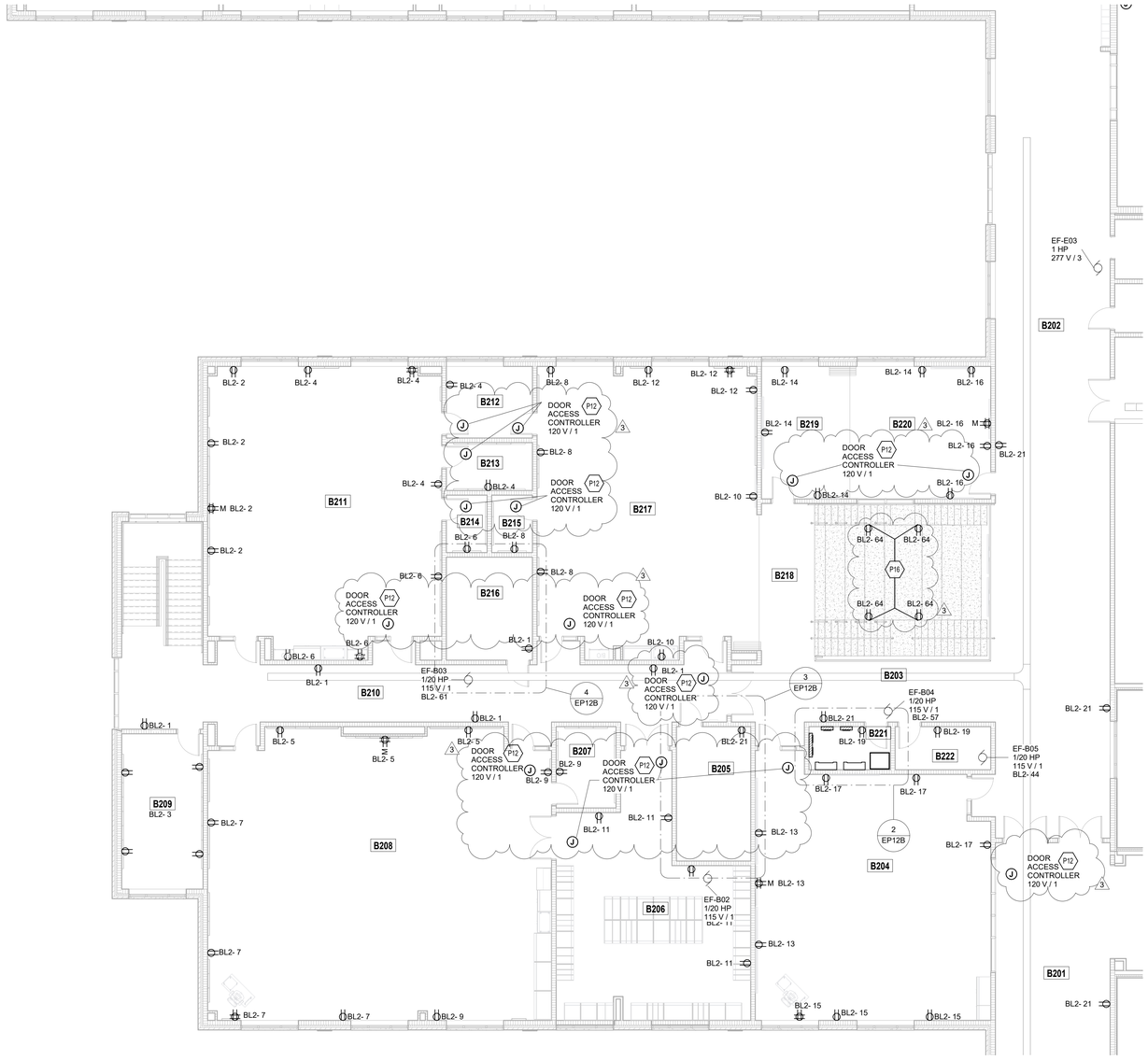
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
B203	CORRIDOR	318 SF
B204	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	MECHANICAL	195 SF
B206	INSTRUMENTS	765 SF
B207	PRACTICE	95 SF
B208	BAND	1902 SF
B209	ENSEMBLE	247 SF
B210	CORRIDOR	843 SF
B211	ORCHESTRA	1271 SF
B212	STORAGE	120 SF
B213	PRACTICE	81 SF
B214	PRACTICE	46 SF
B215	PRACTICE	46 SF
B216	MECHANICAL	173 SF
B217	VOCAL	1202 SF
B218	GATHERING STAIR	146 SF
B219	SGI	223 SF
B220	SGI	358 SF
B221	ELECTRICAL	69 SF
B222	CUSTODIAN	81 SF
B51-2	STAIR	216 SF
C201	UPPER MAIN HALL	1343 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF



SECOND FLOOR POWER PLAN UNIT B

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P16	RECEPTACLES TO BE INSTALLED HORIZONTALLY ON SIDE OF ADJACENT STAIR RISER WITH BOTTOM OF RECEPTACLE 2" FROM STAIR TREAD.

3

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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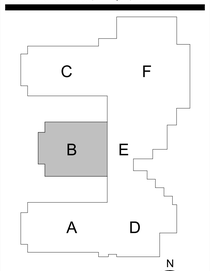

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT B

EP12B

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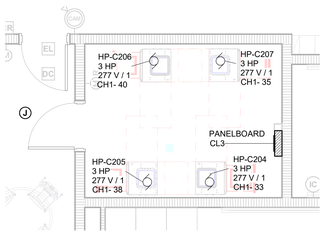
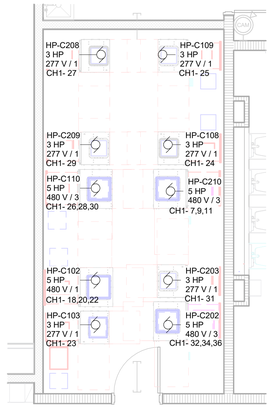


2 ENLARGED MECHANICAL ROOM C214
SCALE: 1/4" = 1'-0"



3 ENLARGED MECHANICAL ROOM C227
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C203	E / T	60 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C206	SGI	109 SF
C207	SGI	107 SF
C208	HUDDLE	90 SF
C209	SCIENCE	1147 SF
C210	CLASSROOM	889 SF
C211	CLASSROOM	889 SF
C212	CLASSROOM	843 SF
C213	HUDDLE	70 SF
C214	MECHANICAL	129 SF
C215	TEACHERS	258 SF
C216	COLLABORATION	2369 SF
C217	CLASSROOM	885 SF
C218	CLASSROOM	892 SF
C219	CLASSROOM	889 SF
C220	SPECIAL ED	814 SF
C221	CUSTODIAN	106 SF
C222	MECHANICAL	280 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
CS2-2	STAIR	277 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P10	TECHNOLOGY RACK(IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P16	RECEPTACLES TO BE INSTALLED HORIZONTALLY ON SIDE OF ADJACENT STAIR RISER WITH BOTTOM OF RECEPTACLE 2" FROM STAIR TREAD.

SECOND FLOOR POWER PLAN UNIT C
SCALE: 1/8" = 1'-0"

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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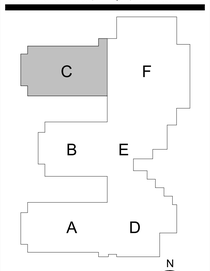

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800008 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT C

EP12C

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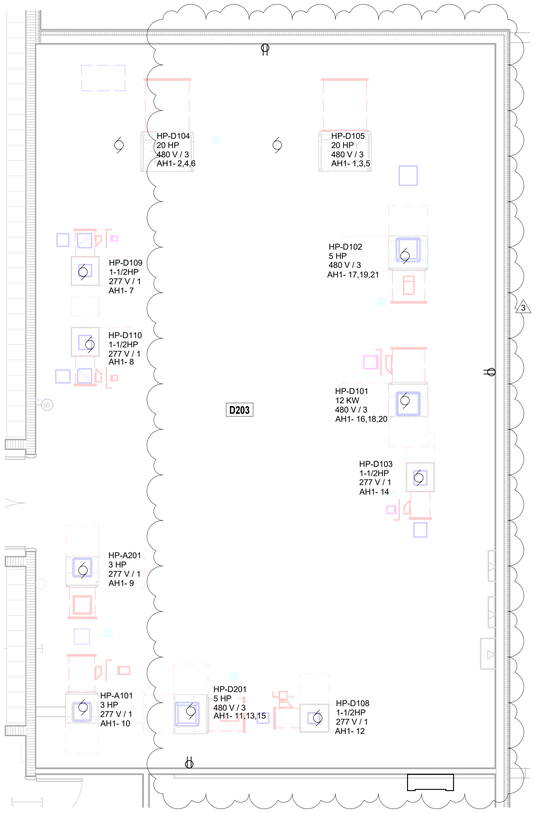


2 ENLARGED MECHANICAL ROOM D203

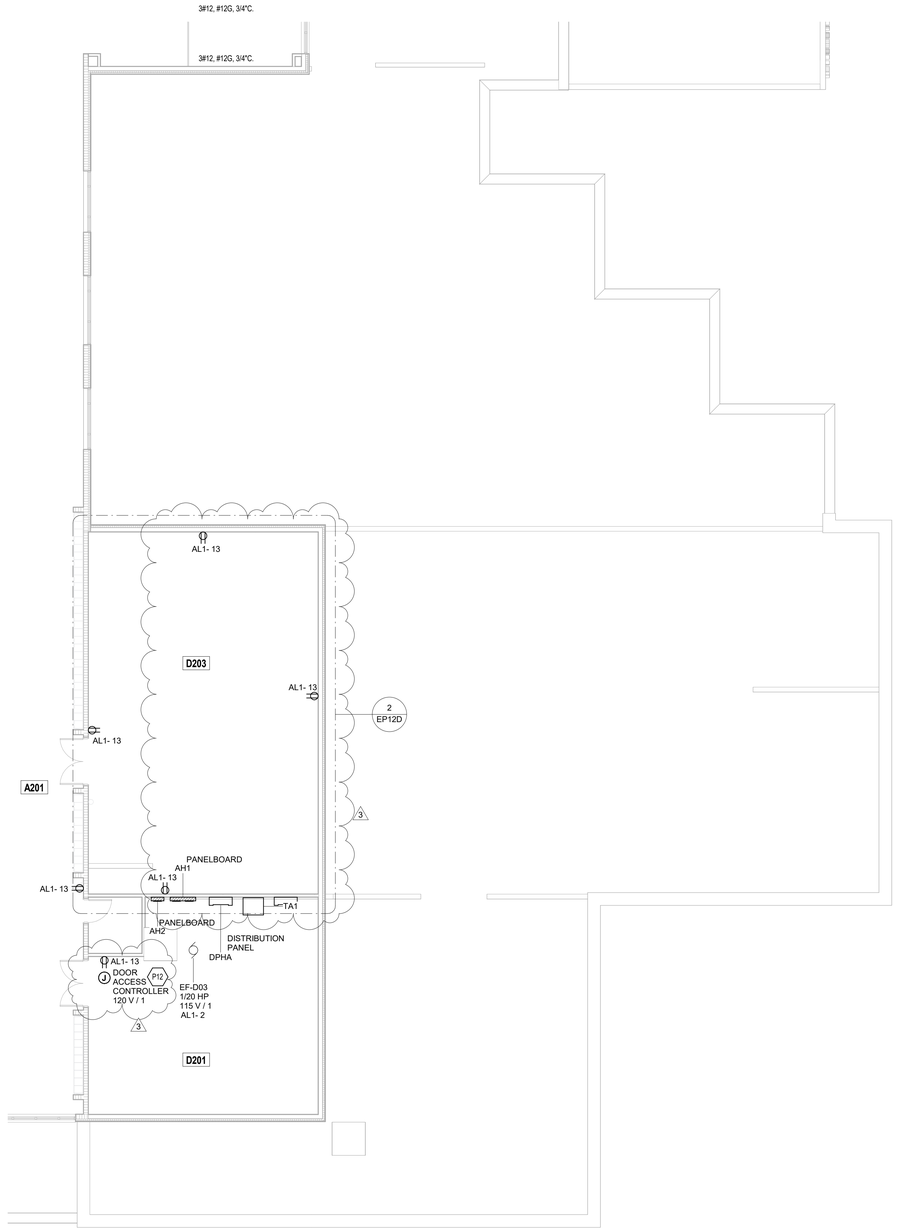
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
D201	STORAGE	6048 SF
D202	CUSTODIAN	51 SF
D203	MECHANICAL	1413 SF



SECOND FLOOR POWER PLAN UNIT D

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 /N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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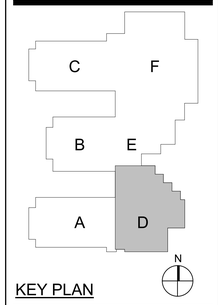

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803035 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT D

EP12D

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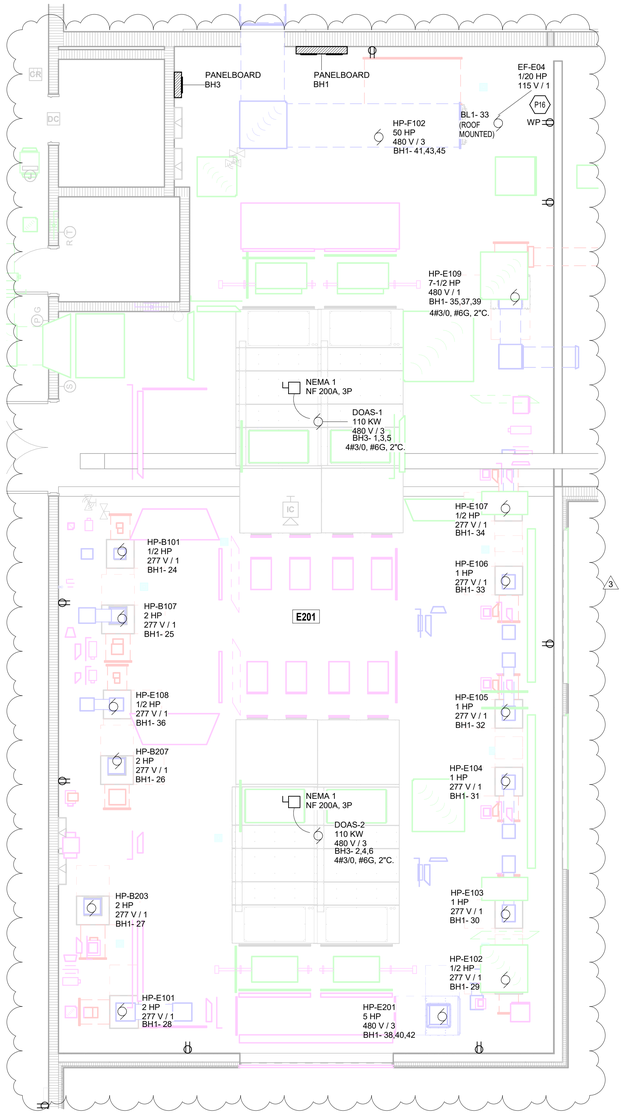
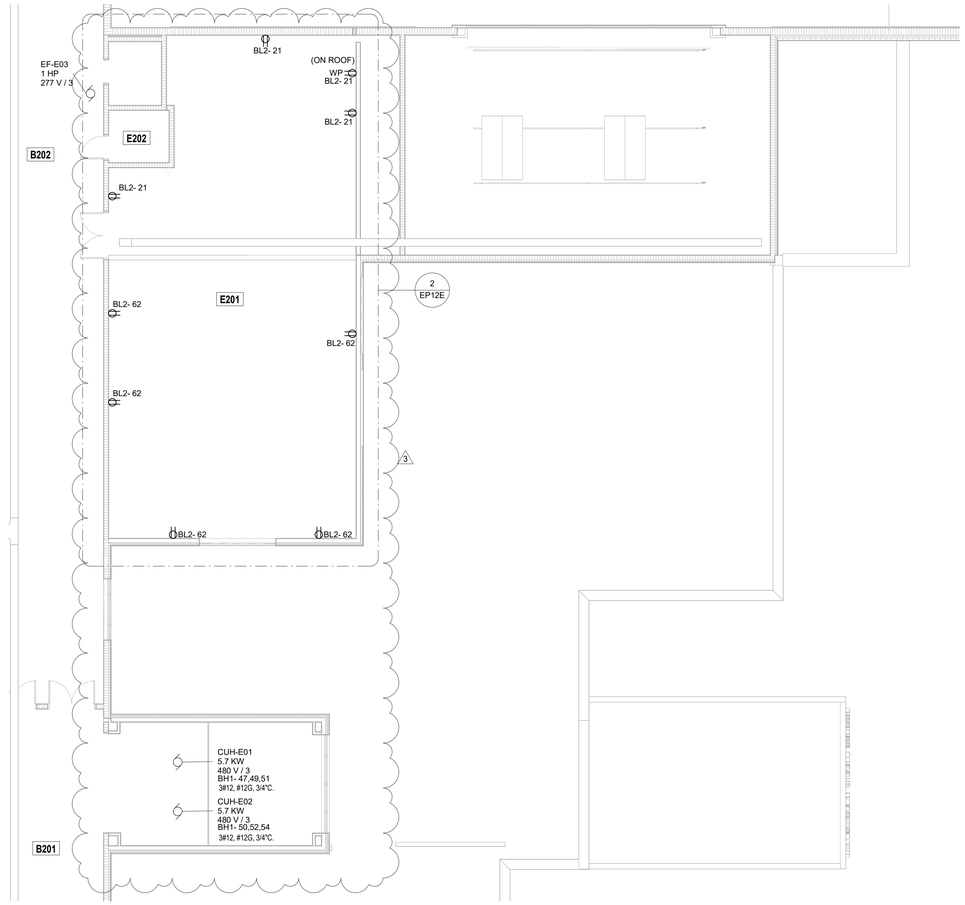


2 ENLARGED MECHANICAL ROOM E201

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



SECOND FLOOR POWER PLAN UNIT E

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

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A201	UPPER MAIN HALL	1885 SF
B201	UPPER MAIN HALL	398 SF
B202	UPPER MAIN HALL	1871 SF
E201	MECHANICAL	1995 SF
E202	ELEVATOR EQUIPMENT	54 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P16	RECEPTACLES TO BE INSTALLED HORIZONTALLY ON SIDE OF ADJACENT STAIR RISER WITH BOTTOM OF RECEPTACLE 2" FROM STAIR TREAD.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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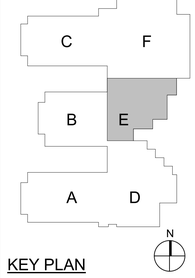

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000365 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT E

EP12E

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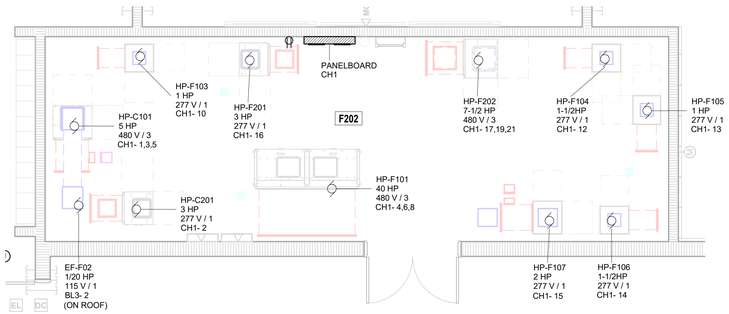
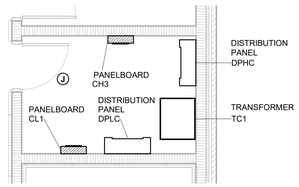


2 ENLARGED MECHANICAL ROOM F202

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



3 ENLARGED ELECTRICAL ROOM F206

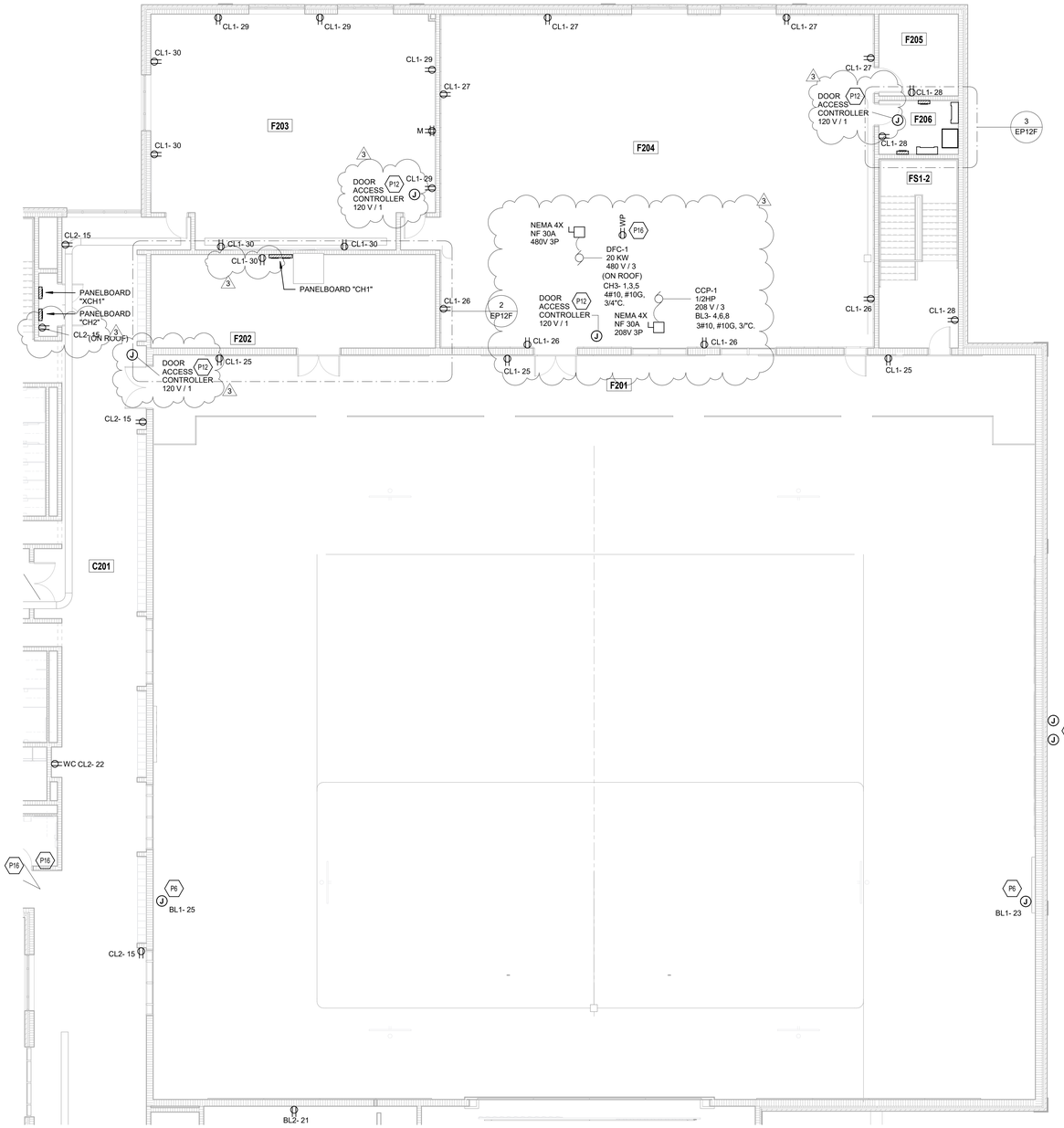
SCALE: 1/4" = 1'-0"

ITEMS REVISED ON ALL POWER PLANS FOR ADDENDUM NO.2

1. TURNED FLOOR LINES OFF FOR CLARIFICATION.
2. TURNED STRUCTURAL OFF FOR CLARIFICATION.
3. TURNED MECHINICAL EQUIPTMENT ON ON ALL ENLARGED PLANS.

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B202	UPPER MAIN HALL	1871 SF
C201	UPPER MAIN HALL	1343 SF
C202	RESTROOM	51 SF
C204	PREP	101 SF
C205	BOYS	217 SF
C216	COLLABORATION	2369 SF
C223	GIRLS	282 SF
C224	ELECTRICAL	24 SF
CS1-2	STAIR	293 SF
E201	MECHANICAL	1995 SF
F201	BALCONY	1137 SF
F202	MECHANICAL	543 SF
F203	MULTI-PURPOSE INSTRUCTION	1306 SF
F204	FITNESS	2985 SF
F205	STORAGE	133 SF
F206	ELECTRICAL	87 SF
FS1-2	STAIR	307 SF



SECOND FLOOR POWER PLAN UNIT F

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

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P6	WALL MOUNTED SCOREBOARD. CONNECT TO INDICATED CIRCUIT.
P7	EXTERIOR LIT SIGNS. CONNECT TO CIRCUITS CL2-21 AND CL2-23.
P12	DOOR ACCESS CONTROLLER JUNCTION BOX MOUNTED ABOVE THE CEILINGS FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST RECEPTACLE CIRCUIT.
P16	RECEPTACLES TO BE INSTALLED HORIZONTALLY ON SIDE OF ADJACENT STAIR RISER WITH BOTTOM OF RECEPTACLE 2" FROM STAIR TREAD.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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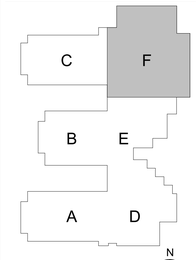

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

SECOND FLOOR POWER PLAN - UNIT F

EP12F

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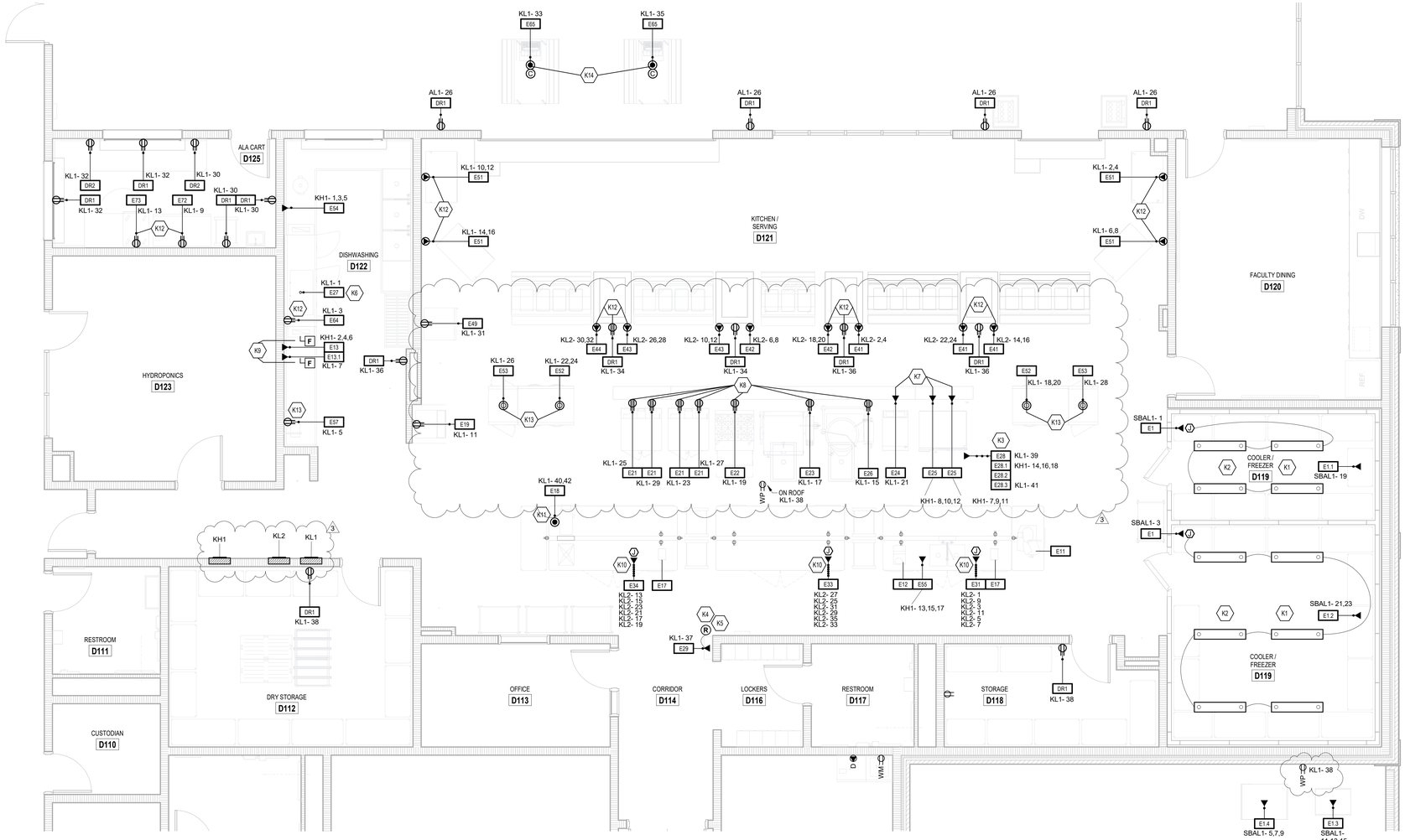

ENLARGED KITCHEN POWER PLAN

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

SHEET KEYNOTES

K1	REFER TO DEATILS ON "FS" SERIES DRAWINGS AS APPLICABLE FOR ADDITIONAL WIRING AND INSTALLATION REQUIREMENTS FOR THE COOLER AND FREEZER. DIVISION 26 TO PROVIDE DISCONNECT SWITCH AND FUSES, SIZE AS INDICATED. UNLESS OTHER SIZE REQUIRED PER SUPPLIED EQUIPMENT MANIFUFACTURER'S MAXIMUM FUSE SIZE REQUIREMENTS. ROOFTOP MOUNTED COMPRESSORS ARE SHOWN SCHEMATICALLY ONLY ON THIS PLAN, COORDINATE EXACT LOCATION IN FIELD.
K2	SEAL ALL CONDUIT PENETRATIONS IN COOLER/FREEZER. REFER TO NOTES ON THE "FS" SEREIES DRAWINGS FOR ADDITIONAL INFORMATION.
K3	KITCHEN HOOD AND KITCHEN HOOD VENTILATION SYSTEM. REFER TO NOTES AND DETAILS ON "FS" SERIES DRAWINGS AS APPLICABLE FOR CONNECTION REQUIREMENTS, EQUIPMENT LOCATIONS, AN ADDITIONAL INFORMATION AND REQUIREMENTS.
K4	KITCHEN HOOD EMERGENCY SHUT-OFF RELAY. PROVIDE AN AC CONTROL RELAY WITH FIELD CONVERTIBLE CONTACTS AND 120 VOLT CONTROL VOLTAGE IN A NEMA 1 ENCLOSURE FOR KITCHEN VENTILATION SYSTEM SHUT-DOWN INTERFACE. INSTALL ABOVE ACCESSIBLE CEILING NEAR KITCHEN HOOD AND WIRE CONTROLS OR CONTROL DEVICES FOR EQUIPMENT RELATED TO KITCHEN HOOD THROUGH CONTROL RELAY FOR SHUT-DOWN VIA ACTUATION OF KITCHEN HOOD FIRE PROTECTION SYSTEM. WIRE (AT MINIMUM) THE FOLLOWING THROUGH THE CONTROL RELAY: (A.) KITCHEN VENTILATION SHUT-OFF CONTROLS. (B.) SHUNT-TRIP CONTROL WIRING FOR CIRCUITS SERVING EQUIPMENT UNDER KITCHEN HOOD (N.O. CONTACTS) (C.) FIRE ALARM SYSTEM INTERFACE FOR KITCHEN VENTILATION SYSTEM (D.) KITCHEN EQUIPMENT GAS SHUT-OFF VALVE SOLENOID (N.C. CONTACT). (E.) ANY ADDITIONAL CONTROLS REQUIRED. CONTROL RELAY SHALL BE SQUARE D CLASS 8501-TYPE X, EATON D26 SERIES-TYPE M, OR EQUAL. PROVIDE CONTROL RELAY WITH NUMBER OF POLES AND QUANTITY OF N.O. AND N.C. CONTACTS AS REQUIRED. WIRE CONTROL REALY AS REQUIRED TO BE TRIGGERED BY KITCHEN HOOD FIRE PROTECTION SYSTEM MICRO SWITCH TO CHANCE CONTACT STATES UPON ACTUATION OF KITCHEN HOOD FIRE PROTECTION SYSTEM. COORDINATE REQUIREMENTS OF ITEMS TO BE CONTROLLED WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION. PROVIDE 120 VOLT CIRCUIT INDICATED FOR CONTROL POWER.
K5	KITCHEN HOOD FIRE PROTECTION SYSTEM. WIRE 120 VOLT CIRCUIT SERVING KITCHEN HOOD EMERGENCY SHUT-OFF RELAY THROUGH MICRO SWITCH IN FIRE PROTECTION SYSTEM ENCLOSURE, AND PROVIDE ALL CONTROL WIRING TO INTERFACE TO FIRE PROTECTION SYSTEM CONTROL PANEL. COORDINATE WIRING REQUIREMENTS WITH APPLICABLE NOTES AND DETAILS ON "FS" SERIES DRAWINGS, SPECIFICATION SECTION 11 40 00, AND KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED CONDUIT, WIRING, EQUIPMENT, DEVICES, ETC. TO MAKE ALL FINAL CONNECTIONS TO ALL EQUIPMENT CONNECTED TO FIRE PROTECTION SYSTEM. PROVIDE AN OCAGON BOX AT 48" AFF AND 1/2" C. TO ABOVE CEILING AT FIELD COORDINATED LOCATION FOR INSTALLATION OF THE FIRE PROTECTION SYSTEM PULL STATION.
K6	DISHWASHER VENTILATION SYSTEM EXHAUST FAN TO BE CONTROLLED BY DISHWASHER CONTROLS. REFER TO "FS" SERIES DRAWINGS AS APPLICABLE FOR ADDITIONAL CONENCTION REQUIREMENTS, EQUIPMENT LOCATION, AND ADDITION INFORMATION.
K7	DROP INDICATED CIRCUIT FROM ABOVE THRU UTILITY CABINET. REFER TO "FS" SERIES DRAWINGS FOR MORE INFORMATION.
K8	DEVICE CONNECTED TO DESIGNATED NEMA 5-15R RECEPTACLE MOUNTED IN THE UTILITY CABINET. REFER TO "FS" SERIES DRAWINGS FOR MORE INFORMATION.
K9	LOCATE DISCONNECT SWITCH BELOW DISHTABLE, ADJACENT TO DISHWASHER EQUIPMENT CONTROL UNITS. COORDINATE LOCATION WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN TO PROVIDE CODE REQUIRED "DEDICATED EQUIPMENT SPACE" AND "SPACES ABOUT ELECTRICAL EQUIPMENT" FOR WORKING SPACE AND ACCESS FOR SERVICEABILITY.
K10	PROVIDE CONDUIT STUB-UP TO FOR EACH CIRCUIT INDICATED AT THIS LOCATION. WIRE IN SEAL-TITE CONDUIT TO JUNCTION BOX AT TABLE. REFER TO "FS" SERIES DRAWINGS FOR MORE INFORMATION.
K11	1-GANG ABOVE FLOOR SERVICE FITTING WITH DUPLEX RECEPTACLE. TYPE AS INDICATED ON "FS" SERIES DRAWINGS ELECTRICAL SCHEDULE.
K12	1-GANG FLUSH WALL MOUNTED DUPLEX RECEPTACLE. TYPE AS INDICATED ON "FS" SERIES DRAWINGS ELECTRICAL SCHEDULE.
K13	1-GANG FLUSH CEILING MOUNTED DUPLEX RECEPTACLE. TYPE AS INDICATED ON "FS" SERIES DRAWINGS ELECTRICAL SCHEDULE.
K14	2-GANG FLUSH FLOOR BOX FOR CASH HANDLING STATION POWER AND DATA OUTLETS. PROVIDE FLOOR BOX WITH DIVIDER BETWEEN POWER AND DATA GANGS. REFER TO SPECIFICATIONS FOR ADDITIONAL FLOOR BOX REQUIREMENTS. REFER TO "I" SERIES DRAWINGS FOR DATA OUTLET AND WIRING REQUIREMENTS.

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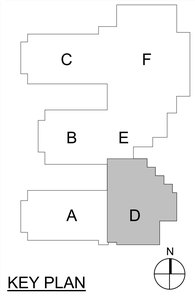

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

KITCHEN POWER PLAN

E-401

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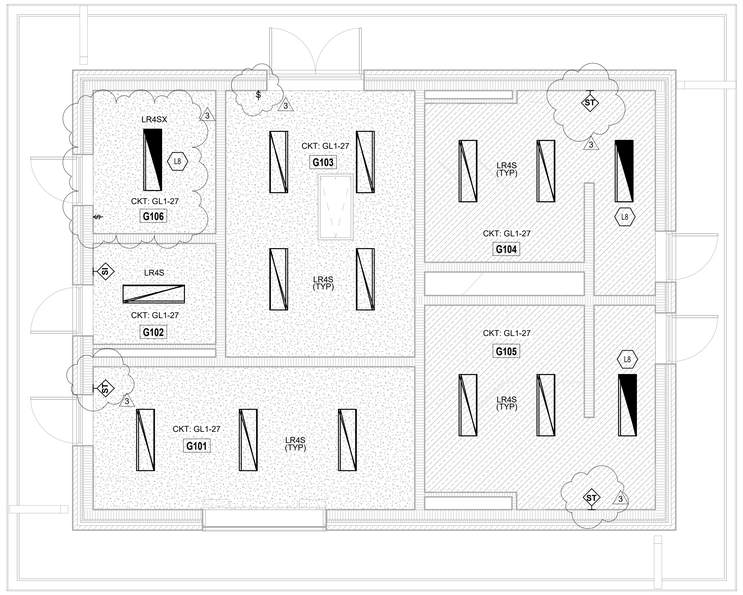
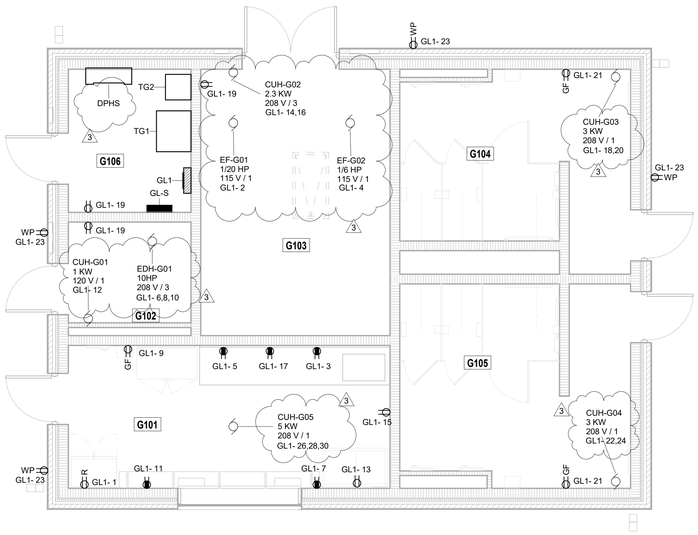


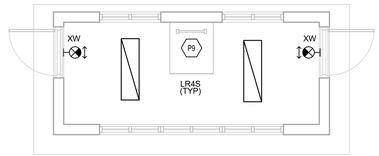
CONCESSION STANDING LIGHTING PLAN - UNIT G

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



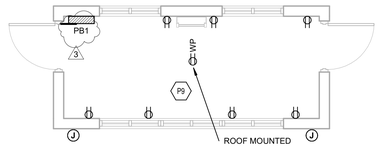
CONCESSION STAND POWER PLANS - UNIT G

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



PRESSBOX LIGHTING PLAN - UNIT H

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



PRESSBOX POWER PLANS - UNIT H

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
G101	CONCESSIONS	196 SF
G102	CUSTODIAN	53 SF
G103	STORAGE	214 SF
G104	RESTROOM	169 SF
G105	RESTROOM	189 SF
G106	ELEC	75 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES	
L8	PROVIDE BATTERY PACKS FOR INDICATED EMERGENCY FIXTURES IN THIS ROOM.
P9	ELECTRICAL DEVICES SHOWN IN PRESSBOX ARE SHOWN FOR LOCATION REFERENCE ONLY. ALL DEVICES ARE TO BE PROVIDED BY THE MODULAR PRESSBOX MANUFACTURER. REFER TO PROJECT MANUNAL SECTION 13 43 23 FOR ADDITIONAL REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

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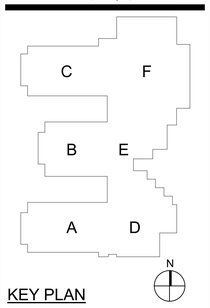

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800028 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

CONCESSION AND PRESSBOX PLANS - UNIT G AND H

E-402

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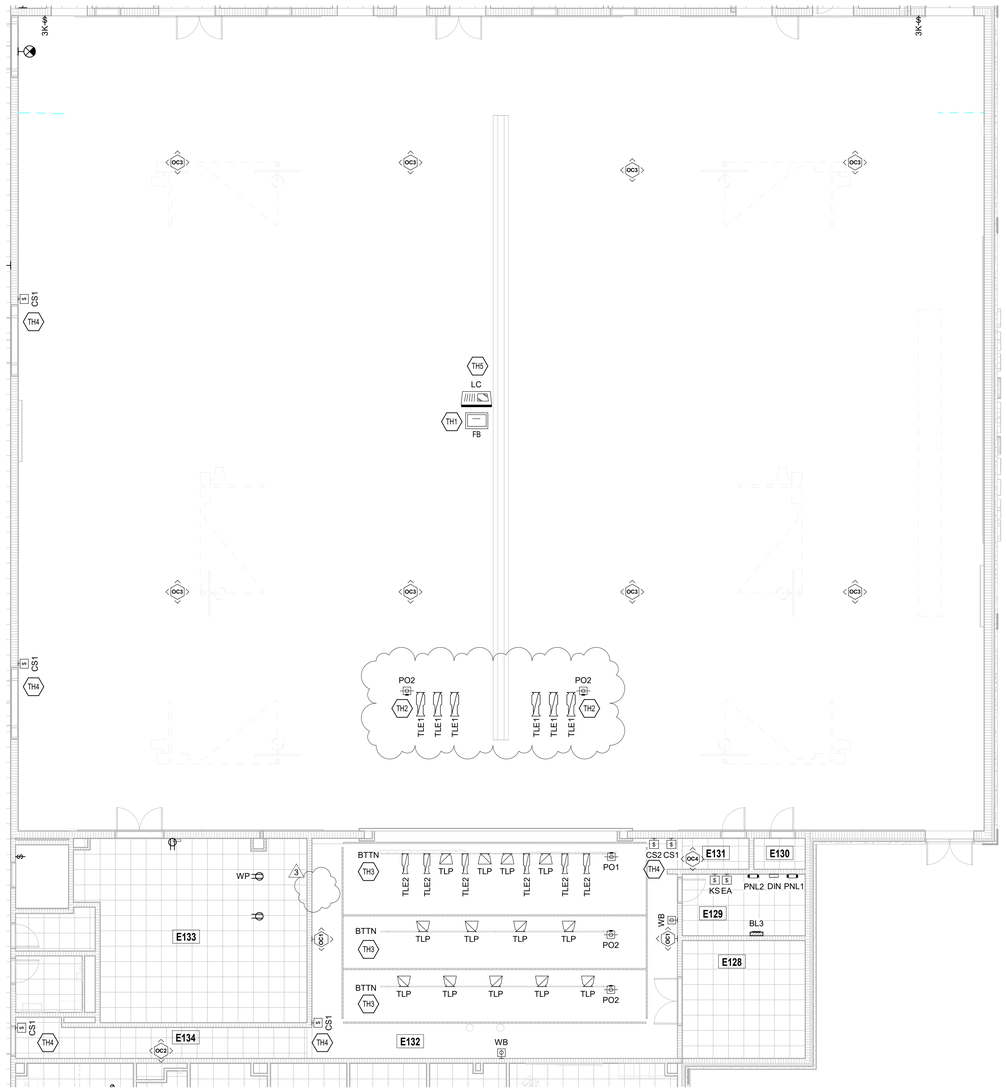

STAGE LIGHTING PLAN

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

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
B101	MAIN HALL	2209 SF
C101	MAIN HALL	1111 SF
E121	CLINIC	274 SF
E122	RESTROOM	64 SF
E123	CONFERENCE	158 SF
E124	GUIDANCE	160 SF
E125	GUIDANCE	161 SF
E126	GUIDANCE	159 SF
E127	IN-SCHOOL SUSPENSION	350 SF
E128	STAGE STORAGE	246 SF
E129	SOUND LIGHT ELEC	129 SF
E130	CLOSET	27 SF
E131	CORRIDOR	34 SF
E132	STAGE	1376 SF
E133	PE STORAGE	671 SF
E134	RAMP	120 SF
E135	CORRIDOR	38 SF
E136	FAMILY RR	64 SF
E137	CUSTODIAN	53 SF
F102	CORRIDOR	1209 SF
F103	GIRLS PE LOCKERS	542 SF
F107	CUSTODIAN	145 SF
F108	OFFICE	149 SF
F116	OFFICE	149 SF
F117	TRAINING	156 SF
F120	BOYS TEAM LOCKER	705 SF
F201	BALCONY	1137 SF

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502".**
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

TH1	PROVIDE DMX INPUT IN GYM FLOOR BOX. REFER TO FLOOR BOX DETAIL "1A/E-502" AND SHEET "EP12F" FOR LOCATION AND ADDITIONAL INFORMATION.
TH2	MOUNT ELLIPSOIDAL FIXTURES TO STRUCTURE AT A MINIMUM OF 26'-0" AFF. RUN ALL CABLES AND CONDUIT BELOW ROOF DECK WITH APPROPRIATE SUPPORTS.
TH3	PROVIDE SCHEDULE 40 PIPE BATTENS OF 30'-0" LENGTH TO BE HUNG AT 16'-0" AFF. SEE SPECIFICATIONS FOR MORE INFORMATION.
TH4	REFER TO SHEET "EL11E", SHEET "EL11F", AND THEATRICAL CONTROL DETAILS ON SHEET "E-503" FOR MORE INFORMATION ON CONTROL STATIONS AND PRESETS.
TH5	LIGHTING CONSOLE TO BE STORED IN ROOM E129.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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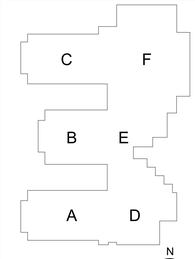

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
2	Addendum No. 3	11.18.25
3	Addendum No. 4	11.25.25

STAGE LIGHTING PLAN

E-403

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LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	LAMPS LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
L2P25	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	14842 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE II DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L2P25-HS	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15133 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE II DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, HOUSE SIDE SHIELD, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L3P25	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15133 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE III DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L3P25-2	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	TWO ON 25'-0" POLE	2	224 W	LED	15133 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE III DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE TWO LUMINAIRES MOUNTED AT 180 DEGREES ON A 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	448 VA
L3P25-HS	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15133 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE III DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, HOUSE SIDE SHIELD, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L4P25	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15221 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE IV/FT DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L5P25	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15112 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE V SHORT DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 700mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
L6P25	McGRAW-EDISON GLEON SERIES GARDCO PUREFORM P21 SERIES LITHONIA DSX1 LED KIM LIGHTING ALT96 SERIES	25'-0" POLE	1	224 W	LED	15221 lm	277 V	FULL CUT-OFF LED AREA LUMINAIRE, TYPE FORWARD-THROW DISTRIBUTION, LOW PROFILE RECTANGULAR HOUSING, 850mA DRIVER, SQUARE POLE ARM MOUNT. PROVIDE 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE AND ALL MOUNTING ACCESSORIES SHALL BE DARK BRONZE FINISH COLOR. REFER TO PROJECT MANUAL SECTION 26 56 00 FOR ADDITIONAL REQUIREMENTS. REFER TO APPLICABLE FOUNDATION DETAILS ON THE "E1" SERIES DRAWINGS FOR INSTALLATION REQUIREMENTS.	224 VA
LD6B	PORTFOLIO LD6A SERIES PHILIPS LIGHTOLIER C6L SERIES GOTHAM EVO SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22 W	LED	4000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, WIDE DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. 4000K CCT	19 VA
LD61	PORTFOLIO LD6A SERIES PHILIPS LIGHTOLIER C6L SERIES GOTHAM EVO SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. FIXTURES IN SERVING AREA ARE TO BE EITHER 3000K OR 3500K AS NOTED, ALL OTHER INSTANCES TO BE 4000K	19 VA
LD61A	PORTFOLIO LD6A SERIES PHILIPS LIGHTOLIER C6L SERIES GOTHAM EVO SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	19 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. FIXTURES IN SERVING AREA ARE TO BE EITHER 3000K OR 3500K AS NOTED, ALL OTHER INSTANCES TO BE 4000K	19 VA
LDW61	FAIL-SAFE FLD6A SERIES PHILIPS BRANDS A/E APPROVED EQUAL GOTHAM EVO SHOWER SERIES PRESCOLITE LF6LEDG4 SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LDW61X	FAIL-SAFE FLD6A SERIES PHILIPS BRANDS A/E APPROVED EQUAL GOTHAM EVO SHOWER SERIES PRESCOLITE LF6LEDG4 SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LF2	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	36 W	LED	4000 lm	277 V	2 BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	36 VA
LF2X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	36 W	LED	4000 lm	277 V	2 BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	36 VA
LF3	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	40 W	LED	5000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING. 4000K	40 VA
LF3X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	40 W	LED	5000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING. 4000K. PROVIDE WITH EMERGENCY TRANSFER DEVICE	40 VA
LF22	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	36 W	LED	4000 lm	277 V	2 BY 2-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	36 VA
LF22A	ALIGHT LEAN SERIES OR A/E APPROVED EQUAL	RECESSED	1	20 W	LED	2500 lm	120 V	2 BY 2-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	20 VA
LF22X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	36 W	LED	4000 lm	277 V	2 BY 2-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING. PROVIDE WITH EMERGNECY TRANSFER DEVICE.	36 VA
LH8	METALUX HBLED SERIES DAY-BRITE FBX SERIES LITHONIA IBL SERIES COLUMBIA LLHV SERIES	SUSPENDED	1	60 W	LED	8000 lm	277 V	2 BY 4-FOOT LED HIGH BAY, 95% REFLECTIVE SPECULAR ALUMINUM REFLECTOR, WIDE DISTRIBUTION, FROSTED ACRYLIC LENS AND WIREGUARD, 0-10VDC DIMMING. PROVIDE WITH ALL MOUNTING HARDWARE AND ACCESSORIES FOR AIRCRAFT CABLE SUSPENSION.	60 VA
LH8X	METALUX HBLED SERIES DAY-BRITE FBX SERIES LITHONIA IBL SERIES COLUMBIA LLHV SERIES	SUSPENDED	1	60 W	LED	8000 lm	277 V	2 BY 4-FOOT LED HIGH BAY, 95% REFLECTIVE SPECULAR ALUMINUM REFLECTOR, WIDE DISTRIBUTION, FROSTED ACRYLIC LENS AND WIREGUARD, 0-10VDC DIMMING. PROVIDE WITH ALL MOUNTING HARDWARE AND ACCESSORIES FOR AIRCRAFT CABLE SUSPENSION.	60 VA
LH24	METALUX HBLED SERIES DAY-BRITE FBX SERIES LITHONIA IBL SERIES COLUMBIA LLHV SERIES	SUSPENDED	1	241 W	LED	24000 lm	277 V	2 BY 4-FOOT LED HIGH BAY, 95% REFLECTIVE SPECULAR ALUMINUM REFLECTOR, WIDE DISTRIBUTION, FROSTED ACRYLIC LENS AND WIREGUARD, 0-10VDC DIMMING. PROVIDE WITH ALL MOUNTING HARDWARE AND ACCESSORIES FOR AIRCRAFT CABLE SUSPENSION.	241 VA
LH24X	METALUX HBLED SERIES DAY-BRITE FBX SERIES LITHONIA IBL SERIES COLUMBIA LLHV SERIES	SUSPENDED	1	241 W	LED	24000 lm	277 V	2 BY 4-FOOT LED HIGH BAY, 95% REFLECTIVE SPECULAR ALUMINUM REFLECTOR, WIDE DISTRIBUTION, FROSTED ACRYLIC AND WIREGUARD, 0-10VDC DIMMING. PROVIDE WITH ALL MOUNTING HARDWARE AND ACCESSORIES FOR AIRCRAFT CABLE SUSPENSION. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	241 VA
LPF15	SOLERA LIGHTING SRBK8 SERIES ELCAST LIGHTING 1822 SERIES SPECTRUM SPC0618UDLEDXT SERIES V2 LIGHTING GROUP CORE 400 SERIES	FLAG POLE	1	30 W	LED	1100 lm	277 V	6-INCH NOMINAL DIAMETER LED UPLIGHT CYLINDER LUMINAIRE FOR FLAG POLE. SPOT DISTRIBUTION, WET LOCATION LISTED. PROVIDE CUSTOM FIXTURE AS REQUIRED TO PROVIDE UPLIGHT ONLY, AND CUSTOM MOUNTING ARM/BRACKET TO MOUNT TWO LUMINAIRES BACK-TO-BACK TO 6-INCH DIAMETER FLAG POLE AT 15'-0" A.F.G. PROVIDE LUMINAIRE AND MOUNTING ACCESSORIES IN CUSTOM FINISH COLOR TO MATCH FLAG POLE FINISH COLOR.	30 VA
LR2	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES OR A/E APPROVED EQUAL	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR2X	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES OR A/E APPROVED EQUAL	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR4S	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES HUBBELL BRANDS A/E APPROVED EQUAL	SURFACE	1	73 W	LED	7000 lm	<varies>	4-FOOT WRAP LED AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. MULTI-VOLT	73 VA
LR4SX	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES HUBBELL BRANDS A/E APPROVED EQUAL	SURFACE	1	73 W	LED	7000 lm	<varies>	4-FOOT WRAP LED AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. MULTI-VOLT	73 VA
SL4R	MARK SLOT SERIES STARTEK BEAM SERIES LITECONTROL 4L SERIES OR A/E APPROVED EQUAL	RECESSED	1	16 W	LED	2000 lm	277 V	4 IN RECESSED STRIP FIXTURE OF 4 FOOT LENGTH, GRID MOUNTING, 400 LUMENS PER FOOT, 10% 0-10V DIMMING, 80+CRI, 4000K CCT	16 VA
SL8P	MARK SLOT SERIES STARTEK BEAM SERIES LITECONTROL 4L SERIES OR A/E APPROVED EQUAL	PENDANT	1	32 W		4000 lm	277 V	4 IN PENDANT STRIP FIXTURE OF 8 FOOT LENGTH, 500 LUMENS PER FOOT, 10% 0-10V DIMMING, 80+CRI, 4000K CCT	32 VA
SL8P2	MARK SLOT SERIES STARTEK BEAM SERIES LITECONTROL 4L SERIES OR A/E APPROVED EQUAL	PENDANT	1	32 W		4000 lm	277 V	4 IN PENDANT STRIP FIXTURE OF 8 FOOT LENGTH, 1000 LUMENS PER FOOT, 10% 0-10V DIMMING, 80+CRI, 4000K CCT	32 VA
W-1X	LITHONIA WDGE1 LED SERIES HUBBELL RW1 LED SERIES MCGRAW-EDISON IMPACT ELITE SERIES	SURFACE	1	7 W	LED	700 lm	277 V	TRAPEZOID SHAPED WALL SCONCE, FORWARD THROW, LISTED FOR WET LOCATIONS, DARK BRONZE FINISH, WITH UL924 EMERGENCY OPERATION, SOCKET AND REMOTE EMERGENCY LIGHTING UNIT.	7 VA
W-3X	LITHONIA WDGE3 LED SERIES HUBBELL RW2 LED SERIES MCGRAW-EDISON IMPACT ELITE SERIES	SURFACE	1	52 W	LED	11000 lm	277 V	TRAPEZOID SHAPED WALL SCONCE, FORWARD THROW, LISTED FOR WET LOCATIONS, DARK BRONZE FINISH, WITH UL924 EMERGENCY OPERATION, SOCKET AND REMOTE EMERGENCY LIGHTING UNIT.	52 VA
W-4X	LITHONIA WDGE4 LED SERIES HUBBELL RW2 LED SERIES MCGRAW-EDISON IMPACT ELITE SERIES	SURFACE	1	77 W	LED	11000 lm	277 V	TRAPEZOID SHAPED WALL SCONCE, FORWARD THROW, LISTED FOR WET LOCATIONS, DARK BRONZE FINISH, WITH UL924 EMERGENCY OPERATION, SOCKET AND REMOTE EMERGENCY LIGHTING UNIT.	77 VA
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES OR A/E APPROVED EQUAL	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

THEATRICAL EQUIPMENT SCHEDULE

LABEL	QTY	MOUNTING	DESCRIPTION	ACCESSORIES	MANUFACTURER AND MODEL
Electrical Equipment					
DIN	1		14 INCH DIN RAIL ENCLOSURE	ENCLOSURE CONTENTS: POWER SUPPLY	ETC
PNL1	1		MAINS FEED RELAY PANEL, 208V THREE-PHASE, 12 CIRCUIT	60A MAINS BREAKER 20A SINGLE-POLE BREAKERS SURFACE MOUNT DOOR 0-10V DIMMING CONTROL	ETC, ECHO RELAY PANEL
PNL2	1		FEED THRU RELAY PANEL, 120V SINGLE-PHASE, 8 CIRCUIT	20A SINGLE-POLE BREAKERS 0-10V DIMMING CONTROL VOLTAGE DIVIDER KIT	ETC, FOUNDRY MINI PANEL
Electrical Fixtures					
PO1	1	PORTABLE, PIPE MOUNTED	PORTABLE CONNECTION BOX, (1) DMX OUTLET, (4) EDISON OUTLETS BLACK	U-BOLT HANGING ATTACHMENT	ETC
PO2	4	PORTABLE, PIPE MOUNTED	PORTABLE CONNECTION BOX, (1) DMX OUTLET, (2) EDISON OUTLETS BLACK	U-BOLT HANGING ATTACHMENT	ETC
WB	2	WALL, RECESSED	WALL BOX, (6) DMX OUTLET(S), BLACK	FLUSH FACEPLATE	ETC
Rigging Equipment					
BTTN	3	Suspended from structure	30' length, Schedule 40 steel pipe, NPS 1.5, Black		
Lighting Devices					
CS1	5	WALL, RECESSED	PUSH BUTTON LIGHTING CONTROL STATION, WHITE	STANDARD BACKBOX	ETC, INSPIRE 2-BUTTON STATION
CS2	1	WALL, RECESSED	PUSH BUTTON LIGHTING CONTROL STATION, WHITE	STANDARD BACKBOX	ETC, INSPIRE 6-BUTTON STATION
EA	1	WALL, RECESSED	BLUETOOTH CONNECTION INTERFACE, WHITE	STANDARD BACKBOX	ETC, ECHOACCESS INTERFACE
KS	1	WALL, RECESSED	KEYSWITCH STATION, WHITE	STANDARD BACKBOX	ETC, ECHO KEYSWITCH STATION
LC	1	TABLE TOP, PORTABLE	LIGHTING CONTROL CONSOLE	POWER CORD, 10FT DMX CABLE, 10FT DUST COVER	ETC, COLORSOURCE 20
OC1	2	WALL	OCCUPANCY SENSOR, 140 DEG DUAL TECHNOLOGY, WHITE, MOUNTED AT 8FT AFF.	STANDARD BACKBOX	ETC, UNISON WALL MOUNT OCC SENSOR, WIDE LENS
OC2	1	CEILING	OCCUPANCY SENSOR, 360 DEG PASSIVE DUAL TECHNOLOGY, WHITE	STANDARD ELECTRICAL BOX	ETC, UNISON DUAL TECH OCC SENSOR, LARGE ROOM
OC3	8	CEILING	OCCUPANCY SENSOR, 360 DEG PASSIVE DUAL TECHNOLOGY, WHITE, MOUNTED TO STRUCTURE	STANDARD ELECTRICAL BOX	ETC, UNISON DUAL TECH OCC SENSOR, HIGH CEILING
OC4	1	CEILING	OCCUPANCY SENSOR, 360 DEG PASSIVE DUAL TECHNOLOGY, WHITE	STANDARD ELECTRICAL BOX	ETC, UNISON DUAL TECH OCC SENSOR, SMALL ROOM
Lighting Fixtures					
TLE1	6	PORTABLE, PIPE BATTEN	26 DEG LED ELLIPSOIDAL SPOT FIXTURE WITH COLOR ARRAY, BLACK	26 DEG LENS TUBE PATTERN HOLDER C-CLAMP AND HANGING YOKE, BLACK SAFETY CABLE, BLACK POWER CABLE, 10FT DMX CABLE, 10FT	ETC, COLORSOURCE SPOT V
TLE2	6	PORTABLE, PIPE BATTEN	ZOOM LED MINI ELLIPSOIDAL SPOT FIXTURE WITH COLOR ARRAY, BLACK	COLORSOURCE ACCESSARY KIT C-CLAMP AND HANGING YOKE, BLACK SAFETY CABLE, BLACK POWER CABLE, 10FT DMX CABLE, 10FT	ETC, COLORSOURCE SPOT JR
TLP	13	PORTABLE, PIPE BATTEN	ZOOM LED PAR BEAM FIXTURE WITH COLOR ARRAY. BLACK	C-CLAMP AND HANGING YOKE, BLACK SAFETY CABLE, BLACK POWER CABLE, 10FT DMX CABLE, 10FT	ETC, COLORSOURCE PAR V ZOOM

LUMINAIRE SCHEDULE - GENERAL NOTES

1. ALL LAMPS LISTED IN SCHEDULE ARE SYLVANNIA CATALOG NUMBERS, UNLESS OTHERWISE NOTED. EQUAL LAMPS BY MANUFACTURERS INDICATED IN SPECIFICATION SECTIONS 265600 ARE ACCEPTABLE.
2. SEE SPECIFICATIONS FOR BALLAST REQUIREMENTS.
3. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
4. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES. LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
5. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR BALLAST COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY CUSTOM COLOR LIGHT FIXTURES.

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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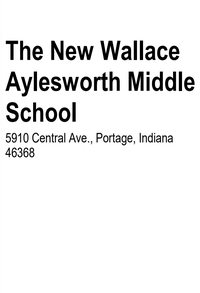

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

LUMINAIRE SCHEDULES

E-601

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Switchboard: MSB

Location: ELECTRICAL D102 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 65,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Pad Mounted | **Wires:** 4 | **Mains Rating:** 2500 A
Enclosure: Type 1 | **MCB Rating:** 2500 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	DPHA	3	400 A	20 A	323098 VA	
2	TK1	3	400 A	20 A	68028 VA	
3	1KH1	3	400 A	20 A	129056 VA	
4	DPHX	3	400 A	20 A	20975 VA	
5	SBAH1	3	400 A	20 A	26813 VA	
6	DPHB	3	400 A	20 A	530673 VA	
7	DPHC	3	400 A	20 A	422119 VA	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	1520762 VA	
				Total Amps:	1829 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	993286 VA	102.78%	1020933 VA		
Other	220361 VA	100.00%	220361 VA	**Total Conn. Load:**	1520762 VA
Spare	6480 VA	100.00%	6480 VA	**Total Est. Demand:**	1517049 VA
Power	600 VA	100.00%	600 VA	**Total Conn.:**	1829 A
Lighting	69815 VA	125.00%	87269 VA	**Total Est. Demand:**	1825 A
Receptacle - Convenience	204420 VA	80.00%	163536 VA		
Receptacle - Undercounter Ref.	600 VA	70.00%	420 VA		
Receptacle - Refrigerator	8000 VA	80.00%	6400 VA		
Receptacle - Microwave	4500 VA	50.00%	2250 VA		
Receptacle - Copy Machine	1500 VA	80.00%	1200 VA		
Receptacle - Washing Machine	2400 VA	60.00%	1440 VA		
Receptacle - Dryer	8800 VA	70.00%	6160 VA		

Notes:

Branch Panel: DPHX

Location: STORAGE D103 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	TX1	20 A	3	480 VA	0 VA	0 VA
4,5,6	XAH1	20 A	3	5000 VA	4327 VA	3664 VA
7,8,9	XBH1	20 A	3	969 VA	1047 VA	963 VA
10,11,12	XCH1	20 A	3	1896 VA	985 VA	1644 VA
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	8345 VA	6359 VA	6271 VA
			Total Amps:	30 A	23 A	23 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	788 VA	100.00%	788 VA		
Lighting	20187 VA	125.00%	25234 VA	**Total Conn. Load:**	20975 VA
				Total Est. Demand:	26022 VA
				Total Conn. Current:	25 A
				Total Est. Demand Current:	31 A

Notes:

Branch Panel: DPHA

Location: STORAGE D201 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1 | **MCB Rating:** 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	TA1	200 A	3	29745 VA	29925 VA	30378 VA
4,5,6	AH1	400 A	3	74959 VA	72244 VA	69908 VA
7,8,9	AH2	100 A	3	4897 VA	4726 VA	6316 VA
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	109601 VA	106895 VA	106602 VA
			Total Amps:	396 A	386 A	385 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	232919 VA	102.99%	239891 VA		
Other	1156 VA	100.00%	1156 VA	**Total Conn. Load:**	323098 VA
Lighting	15503 VA	125.00%	19379 VA	**Total Est. Demand:**	318112 VA
Receptacle - Convenience	63420 VA	80.00%	50736 VA	**Total Conn. Current:**	389 A
Receptacle - Refrigerator	3000 VA	80.00%	2400 VA	**Total Est. Demand Current:**	383 A
Receptacle - Microwave	1500 VA	50.00%	750 VA		
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

Branch Panel: DPHB

Location: ELECTRICAL B221 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1 | **MCB Rating:** 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	TB1	200 A	3	37749 VA	38257 VA	35174 VA
4,5,6	BH1	400 A	3	64376 VA	64182 VA	57081 VA
7,8,9	BH2	100 A	3	4754 VA	3828 VA	4098 VA
10,11,12	BH3	400 A	3	73725 VA	73725 VA	73725 VA
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	180604 VA	179992 VA	170078 VA
			Total Amps:	658 A	655 A	614 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	437173 VA	106.32%	464820 VA		
Other	960 VA	100.00%	960 VA	**Total Conn. Load:**	530673 VA
Spare	6000 VA	100.00%	6000 VA	**Total Est. Demand:**	545761 VA
Power	600 VA	100.00%	600 VA	**Total Conn. Current:**	638 A
Lighting	12420 VA	125.00%	15525 VA	**Total Est. Demand Current:**	656 A
Receptacle - Convenience	66420 VA	80.00%	53136 VA		
Receptacle - Undercounter Ref.	600 VA	70.00%	420 VA		
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA		
Receptacle - Microwave	3000 VA	50.00%	1500 VA		
Receptacle - Copy Machine	1500 VA	80.00%	1200 VA		

Notes:

Branch Panel: DPHC

Location: ELECTRICAL F206 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 18,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1 | **MCB Rating:** 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	TC1	200 A	3	28190 VA	27450 VA	28420 VA
4,5,6	CH1	400 A	3	64192 VA	64644 VA	58597 VA
7,8,9	CH2	100 A	3	7754 VA	6624 VA	7367 VA
10,11,12	CH3	400 A	3	42960 VA	42960 VA	42960 VA
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	143096 VA	141678 VA	137344 VA
			Total Amps:	519 A	514 A	496 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	322194 VA	104.19%	335704 VA		
Other	1040 VA	100.00%	1040 VA	**Total Conn. Load:**	422119 VA
Spare	480 VA	100.00%	480 VA	**Total Est. Demand:**	425035 VA
Lighting	21705 VA	125.00%	27131 VA	**Total Conn. Current:**	508 A
Receptacle - Convenience	68100 VA	80.00%	54480 VA	**Total Est. Demand Current:**	511 A
Receptacle - Refrigerator	3000 VA	80.00%	2400 VA		
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

Branch Panel: DPLA

Location: STORAGE D201 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: TA1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	AL1	100 A	3	11135 VA	10225 VA	11978 VA
4,5,6	AL2	100 A	3	8470 VA	9610 VA	9570 VA
7,8,9	AL3	100 A	3	10140 VA	10090 VA	8830 VA
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	29745 VA	29925 VA	30378 VA
			Total Amps:	248 A	250 A	253 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	15809 VA	114.79%	18148 VA		
Other	720 VA	100.00%	720 VA	**Total Conn. Load:**	90049 VA
Receptacle - Convenience	63420 VA	80.00%	50736 VA	**Total Est. Demand:**	76554 VA
Receptacle - Refrigerator	3000 VA	80.00%	2400 VA	**Total Conn. Current:**	250 A
Receptacle - Microwave	1500 VA	50.00%	750 VA	**Total Est. Demand Current:**	212 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

Branch Panel: DPLB

Location: ELECTRICAL B221 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: TB1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	BL1	100 A	3	10010 VA	10020 VA	8857 VA
4,5,6	BL2	100 A	3	14887 VA	14767 VA	14457 VA
7,8,9	BL3	100 A	3	12852 VA	13470 VA	11860 VA
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	37749 VA	38257 VA	35174 VA
			Total Amps:	318 A	322 A	293 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	30359 VA	108.89%	33059 VA		
Other	700 VA	100.00%	700 VA	**Total Conn. Load:**	111179 VA
Spare	6000 VA	100.00%	6000 VA	**Total Est. Demand:**	98215 VA
Power	600 VA	100.00%	600 VA	**Total Conn. Current:**	309 A
Receptacle - Convenience	66420 VA	80.00%	53136 VA	**Total Est. Demand Current:**	273 A
Receptacle - Undercounter Ref.	600 VA	70.00%	420 VA		
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA		
Receptacle - Microwave	3000 VA	50.00%	1500 VA		
Receptacle - Copy Machine	1500 VA	80.00%	1200 VA		

Notes:

Branch Panel: DPLC

Location: ELECTRICAL F206 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: TC1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	CL1	100 A	3	5500 VA	5350 VA	5890 VA
4,5,6	CL2	100 A	3	11890 VA	12540 VA	12740 VA
7,8,9	CL3	100 A	3	10800 VA	9560 VA	9790 VA
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	28190 VA	27450 VA	28420 VA
			Total Amps:	236 A	229 A	238 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	5880 VA	109.78%	6455 VA		
Other	1000 VA	100.00%	1000 VA	**Total Conn. Load:**	84080 VA
Spare	480 VA	100.00%	480 VA	**Total Est. Demand:**	68615 VA
Receptacle - Convenience	68100 VA	80.00%	54480 VA	**Total Conn. Current:**	233 A
Receptacle - Refrigerator	3000 VA	80.00%	2400 VA	**Total Est. Demand Current:**	190 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

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350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-602

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Branch Panel: XAH1

Location: STORAGE D103 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 18,000
Supply From: DPHX | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EM. LTS AND EXIT LTS UNIT A FIRST FLOOR	20 A	1	678 VA	1882...		1	20 A	DRIVE AND PARKING LTG	2
3	EM. LTS AND EXIT LTS UNIT A SECOND FLOOR	20 A	1		901 VA	2464...	1	20 A	DRIVE AND PARKING LTG	4
5	EM. LTS AND EXIT LTS UNIT D 1ST AND 2ND...	20 A	1			1424...	2240...	1	20 A	DRIVE AND PARKING LTG	6
7	Spare	20 A	1	0 VA	2240...			1	20 A	DRIVE AND PARKING LTG	8
9	Spare	20 A	1		0 VA	962 VA		1	20 A	EXT BLDG LTG	10
11	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
		Total Load:		5000 VA	4327 VA	3664 VA				
		Total Amps:		18 A	16 A	13 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	76 VA	100.00%	76 VA		
Lighting	12915 VA	125.00%	16144 VA	**Total Conn. Load:**	12991 VA
				Total Est. Demand:	16220 VA
				Total Conn.:	16 A
				Total Est. Demand:	20 A

Notes:

Branch Panel: XBH1

Location: ELECTRICAL B221 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 18,000
Supply From: DPHX | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 60 A
Enclosure: Type 1 | **MCB Rating:** 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EMERGENCY AND EXIT LTS 1ST FLOOR UNIT...	20 A	1	848 VA	0 VA		1	20 A	Spare	2
3	EMERGENCY AND EXIT LTS 1ST FLOOR UNIT...	20 A	1		1047...	0 VA	1	20 A	Spare	4
5	EMERGENCY AND EXIT LTS 2ND FLOOR UNI...	20 A	1			963 VA	0 VA	1	20 A	Spare	6
7	EMERGENCY AND EXIT LTS 2ND FLOOR UNI...	20 A	1	121 VA	0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
		Total Load:		969 VA	1047 VA	963 VA				
		Total Amps:		4 A	4 A	3 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	76 VA	100.00%	76 VA		
Lighting	2903 VA	125.00%	3629 VA	**Total Conn. Load:**	2979 VA
				Total Est. Demand:	3705 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes:

Branch Panel: XCH1

Location: ELECTRICAL C224 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 18,000
Supply From: DPHX | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EM. LTS AND EXIT LTS UNIT C FIRST FLOOR	20 A	1	857 VA	1039...		1	20 A	EM. LTS AND EXIT LTS UNITS C & F 2ND...	2
3	EM. LTS AND EXIT LTS UNIT F FIRST FLOOR	20 A	1		985 VA	0 VA	1	20 A	Spare	4
5	EMERG. LTG AND EXIT LIGHTS RM. F101 GYM	20 A	1			1644...	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
		Total Load:		1896 VA	985 VA	1644 VA				
		Total Amps:		7 A	4 A	6 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	156 VA	100.00%	156 VA		
Lighting	4369 VA	125.00%	5461 VA	**Total Conn. Load:**	4525 VA
				Total Est. Demand:	5617 VA
				Total Conn.:	5 A
				Total Est. Demand:	7 A

Notes:

Branch Panel: AH1

Location: STORAGE D201 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: DPHA | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HP-D105	50 A	3	9296...	9296...		3	50 A	HP-D104	2
3	--	--	--		9296...	9296...	--	--	--	4
5	--	--	--			9296...	9296...	--	--	6
7	HP-D109	20 A	1	2290...	2290...		1	20 A	HP-D110	8
9	HP-A201	20 A	1		3684...	3684...	1	20 A	HP-A101	10
11	HP-D201	20 A	3			2353...	2290...	1	20 A	HP-D108	12
13	--	--	--	2353...	2290...		1	20 A	HP-D103	14
15	--	--	--		2353...	3956...	3	20 A	HP-D101	16
17	HP-D102	20 A	3			2353...	3956...	--	--	18
19	--	--	--	2353...	3956...		--	--	--	20
21	--	--	--		2353...	3684...	1	20 A	HP-A106	22
23	HP-A107	20 A	1			3684...	3213...	1	20 A	HP-A111	24
25	HP-A104	20 A	1	3684...	3684...		1	20 A	HP-A105	26
27	HP-A110	20 A	3		2353...	2353...	3	20 A	HP-A109	28
29	--	--	--			2353...	2353...	--	--	30
31	--	--	--	2353...	2353...		--	--	--	32
33	HP-A108	20 A	1		3684...	3684...	1	20 A	HP-A102	34
35	HP-A103	20 A	1			3684...	3684...	1	20 A	HP-A206	36
37	HP-A207	20 A	1	3684...	3684...		1	20 A	HP-A204	38
39	HP-A205	20 A	1		3684...	2353...	3	20 A	HP-A209	40
41	HP-A202	20 A	1			3684...	2353...	--	--	42
43	HP-A208	20 A	1	3684...	2353...		--	--	--	44
45	HP-A203	20 A	1		3684...	2353...		3	20 A	HP-A210	46
47	HP-D106	20 A	1			3213...	2353...	--	--	--	48
49	HP-D107	20 A	1	3213...	2353...		--	--	--	50
51	ACCU-1	20 A	3		2353...	2667...		3	20 A	CUH-A01	52
53	--	--	--			2353...	2667...	--	--	--	54
55	--	--	--	2353...	2667...		--	--	--	--	56
57	CUH-A03	20 A	3		1000...	1667...		3	20 A	CUH-A02	58
59	--	--	--			1000...	1667...	--	--	--	60
61	--	--	--	1000...	1667...			--	--	--	62
63	DWBP-1	20 A	3		2105...	0 VA		1	20 A	Spare	64
65	--	--	--				2105...	0 VA	1	20 A	Spare	66
67	--	--	--	2105...	0 VA				1	20 A	Spare	68
69	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	70
71	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	74
75	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	80
81	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	84
		Total Load:		74959 VA	72244 VA	69908 VA				
		Total Amps:		272 A	262 A	252 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	217110 VA	103.21%	224082 VA		
				Total Conn. Load:	217110 VA
				Total Est. Demand:	224082 VA
				Total Conn.:	261 A
				Total Est. Demand:	270 A

Notes:

Branch Panel: BH1

Location: MECHANICAL E201 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 18,000
Supply From: DPHB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HP-B102	20 A	3	2353...	2353...		3	20 A	HP-B103	2
3	--	--	--			2353...	2353...	--	--	4
5	--	--	--				2353...	2353...	--	--	6
7	HP-B104	20 A	3	2353...	3213...			1	20 A	HP-B201	8
9	--	--	--			2353...	3684...	1	20 A	HP-B202	10
11	--	--	--				2353...	4124...	3	20 A	HP-B204	12
13	HP-B205	20 A	3	2353...	4124...			--	--	--	14
15	--	--	--			2353...	4124...	--	--	--	16
17	--	--	--				2353...	2353...	3	20 A	HP-B206	18
19	HP-B105	20 A	1	3684...	2353...			--	--	--	20
21	HP-B106	20 A	1			3684...	2353...	--	--	--	22
23	HP-B108	20 A	1				2290...	1246...	1	20 A	HP-B101	24
25	HP-B107	20 A	1	3213...	3213...				1	20 A	HP-B207	26
27	HP-B203	20 A	1			3213...	3213...		1	20 A	HP-E101	28
29	HP-E102	20 A	1				1246...	1911...	1	20 A	HP-E103	30
31	HP-E104	20 A	1	1911...	1911...				1	20 A	HP-E105	32
33	HP-E106	20 A	1			1911...	1246...		1	20 A	HP-E107	34
35	HP-E109	20 A	3				4124...	1246...	1	20 A	HP-E108	36
37	--	--	--	4124...	2353...				3	20 A	HP-E201	38
39	--	--	--			4124...	2353...		--	--	--	40
41	HP-F102	20 A	3				1840...	2353...	--	--	--	42
43	--	--	--	1840...	2667...				3	20 A	CUH-B01	44
45	--	--	--			1840...	2667...		--	--	--	46
47	CUH-E01	20 A	3				1900...	2667...	--	--	--	48
49	--	--	--	1900...	1900...				3	20 A	CUH-E02	50
51	--	--	--			1900...	1900...		--	--	--	52
53	EF-E03	20 A	1				1911...	1900...	--	--	--	54
55	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	58
59	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	64
65	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	70
71	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	74
75	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	80
81	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	84
		Total Load:		64376 VA	64182 VA	57081 VA				
		Total Amps:		236 A	236 A	206 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	185638 VA	107.43%	199438 VA		
				Total Conn. Load:	185638 VA
				Total Est. Demand:	199438 VA
				Total Conn.:	223 A
				Total Est. Demand:	240 A

Notes:

Branch Panel: CH1

Location: MECHANICAL F202 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 14,000
Supply From: DPHC | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HP-C101	20 A	3	2353...	3684...		1	20 A	HP-C201	2
3	--	--	--		2353...	1400...		3	20 A	HP-F101	4
5	--	--	--			2353...	1400...	--	--	--	6
7	HP-C210	20 A	3	2353...	1400...			--	--	--	8
9	--	--	--		2353...	1911...		1	20 A	HP-F103	10
11	--	--	--				2353...	2290...	1	20 A	HP-F104	12
13	HP-F105	20 A	1	1911...	2290...			1	20 A	HP-F106	14
15	HP-F107	20 A	1			3213...	3684...	1	20 A	HP-F201	16
17	HP-F202	20 A	3				4124...	2353...	3	20 A	HP-C102	18
19	--	--	--	4124...	2353...			--	--	--	20
21	--	--	--		4124...	2353...		--	--	--	22
23	HP-C103	20 A	1				3684...	3684...	1	20 A	HP-C108	24
25	HP-C109	20 A	1	3684...	2353...				3	20 A	HP-C110	26
27	HP-C208	20 A	1			3684...	2353...		--	--	--	28
29	HP-C209	20 A	1				3684...	2353...	--	--	--	30
31	HP-C203	20 A	1	3684...	2353...				3	20 A	HP-C202	32
33	HP-C204	20 A	1			3684...	2353...		--	--	--	34
35	HP-C207	20 A	1				3684...	2353...	--	--	--	36
37	HP-C105	20 A	1	3684...	3684...				1	20 A	HP-C205	38
39	HP-C107	20 A	1			3684...	3684...		1	20 A	HP-C206	40
41	CUH-C01	20 A	3				2667...	3684...	1	20 A	HP-C104	42
43	--	--	--		2667...	3684...			1	20 A	HP-C106	44
45	--	--	--				2667...	3213...	1	20 A	HP-C111	46
47	CUH-C02	20 A	3				1667...	1667...	3	20 A	CUH-F01	48
49	--	--	--	1667...	1667...				--	--	--	50
51	--	--	--			1667...	1667...		--	--	--	52
53	CUH-C03	20 A	3				1000...	1000...	3	20 A	CUH-F02	54
55	--	--	--	1000...	1000...				--	--	--	56
57	--	--	--		1000...	1000...			--	--	--	58
59	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	64
65	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	70
71	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	74
75	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	80
81	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	84
		Total Load:		64192 VA	64644 VA	58597 VA				
		Total Amps:		235 A	236 A	212 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	187434 VA	105.60%	197934 VA		
				Total Conn. Load:	187434 VA
				Total Est. Demand:	197934 VA
				Total Conn.:	225 A
				Total Est. Demand:	238 A

Notes:

The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-603

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Branch Panel: AH2

Location: STORAGE D201
Supply From: DPHA
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting RM. A101 - A103, A121, A123, AS1-1	20 A	1	941 VA	920 VA					1	20 A	Lighting RM.A201,A202,A220,AS1-2	2
3	Lighting RM. A110 A111-A113, A118, A119	20 A	1			714 VA	886 VA			1	20 A	Lighting RM. A209-A211, A217-A219, AS2-2	4
5	Lighting RM. A104 - A109	20 A	1					1530...	1574...	1	20 A	Lighting RM. A203-208	6
7	Lighting RM. A114-A117, A122	20 A	1	1516...	1520...					1	20 A	Lighting RM. A213-A216, A221	8
9	Ltg RM.D101-D106,D109-D116,D118-D126	20 A	1			2657...	469 VA			1	20 A	Lighting RM. D201-D203	10
11	Lighting RM. D124	20 A	1					1935...	1277...	1	20 A	Lighting RM. F202-F204, FS1-2	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	4897 VA		4726 VA		6316 VA					
			Total Amps:	18 A		17 A		23 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	436 VA	100.00%	436 VA		
Lighting	15503 VA	125.00%	19379 VA	**Total Conn. Load:**	15939 VA
				Total Est. Demand:	19815 VA
				Total Conn.:	19 A
				Total Est. Demand:	24 A

Notes:

Branch Panel: BH2

Location: ELECTRICAL B221
Supply From: DPHB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Ltg. RM. E201	20 A	1	351 VA	1375...					1	20 A	Lighting RM.B201-B203, B210, B221,B22, BS1-2	2
3	GATHERING STAIR LTG	20 A	1			575 VA	1614...			1	20 A	Ltg. RM.B211-B213,B216,B217,B219-B220	4
5	LtgRM.E103-E111,E114,E117-E121,E123-E131,...	20 A	1					2304...	1794...	1	20 A	Ltg. RM. B204-B209, B221, B222	6
7	Lighting RM. B103-B108	20 A	1	1816...	1212...					1	20 A	Lighting RM. B101,B102,B109,B119,B120,	8
9	Lighting RM. B110-B117	20 A	1			1639...	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	4754 VA		3828 VA		4098 VA					
			Total Amps:	17 A		14 A		15 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	260 VA	100.00%	260 VA		
Lighting	12420 VA	125.00%	15525 VA	**Total Conn. Load:**	12680 VA
				Total Est. Demand:	15785 VA
				Total Conn.:	15 A
				Total Est. Demand:	19 A

Notes:

Branch Panel: CH2

Location: ELECTRICAL C224
Supply From: DPHC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Ltg. RM. C101,C102,C104,C123	20 A	1	706 VA	632 VA					1	20 A	Ltg. RM. C201,C204,C205,C223,CS1-2	2
3	Ltg. RM. C116-C119, C121, C122	20 A	1			1512...	760 VA			1	20 A	Ltg. RM. C206-C208,C213,C216,CS2-2	4
5	Ltg. Rm.C106, C107,C115	20 A	1					672 VA	1654...	1	20 A	Ltg. RM. C204, C209-C212, C214, C215	6
7	Ltg. RM. F102-F111	20 A	1	1106...	1695...					1	20 A	Ltg. RM.C217-C222	8
9	Ltg. RM. C103,C108-C111	20 A	1			1642...	2710...			1	20 A	PNL2-1 (Ltg. RM. F101)	10
11	Ltg. RM. F112-F117,F119-F121	20 A	1					944 VA	4097...	1	20 A	PNL2-2 (Ltg. RM. F101)	12
13	Spare	20 A	1	0 VA	3615...					1	20 A	PNL2-3 (Ltg. RM. F101)	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	PNL2-5 (Ltg RM. 131, 132, 134, 135)	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	PNL2 Sense Feed	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7754 VA		6624 VA		7367 VA					
			Total Amps:	28 A		24 A		27 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	40 VA	100.00%	40 VA		
Lighting	21705 VA	125.00%	27131 VA	**Total Conn. Load:**	21745 VA
				Total Est. Demand:	27171 VA
				Total Conn.:	26 A
				Total Est. Demand:	33 A

Notes:

Branch Panel: BH3

Location: MECHANICAL E201
Supply From: DPHB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DOAS-1	150 A	3	3686...	3686...					3	150 A	DOAS-2	2
3	--	--	--			3686...	3686...			--	--	--	4
5	--	--	--					3686...	3686...	--	--	--	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	73725 VA		73725 VA		73725 VA					
			Total Amps:	266 A		266 A		266 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	221176 VA	112.50%	248823 VA		
				Total Conn. Load:	221176 VA
				Total Est. Demand:	248823 VA
				Total Conn.:	266 A
				Total Est. Demand:	299 A

Notes:

Branch Panel: CH3

Location: ELECTRICAL F206
Supply From: DPHC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DFC-1	20 A	3	6933...	1801...					3	100 A	P-1	2
3	--	--	--			6933...	1801...			--	--	--	4
5	--	--	--					6933...	1801...	--	--	--	6
7	Spare	20 A	1	0 VA	1801...					3	100 A	P-2	8
9	Spare	20 A	1			0 VA	1801...			--	--	--	10
11	Spare	20 A	1					0 VA	1801...	--	--	--	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	42960 VA		42960 VA		42960 VA					
			Total Amps:	155 A		155 A		155 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	128880 VA	110.48%	142390 VA		
				Total Conn. Load:	128880 VA
				Total Est. Demand:	142390 VA
				Total Conn.:	155 A
				Total Est. Demand:	171 A

Notes:

Branch Panel: AL1

Location: ELECTRICAL D102
Supply From: DPLA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT UNIT D EXT	20 A	1	540 VA	190 VA					1	20 A	EF-D03	2
3	RECPTS RM D101-D104	20 A	1			720 VA	420 VA			1	20 A	EF-D02	4
5	RECEPTS RM D106, D113	20 A	1					900 VA	420 VA	1	20 A	EF-D01	6
7	RECEPTS RM D109	20 A	1	360 VA	3118...					3	20 A	CRAC-1	8
9	RECEPTS RM D108, D111	20 A	1			540 VA	3118...			--	--	--	10
11	RECEPTS RM D114, D115 D117	20 A	1					900 VA	3118...	--	--	--	12
13	RECEPTS RM D202-D203	20 A	1	1080...	1080...					1	20 A	RECEPTS RM D120	14
15	CAFE MOTORIZED DOORS	20 A	1			1380...	1000...			1	20 A	RECEPT RM D120 FRIDGE	16
17	Cafeteria North Receptacles	20 A	1					1080...	1500...	1	20 A	RECEPTS RM D120 DISHWASHER	18
19	DWH-2	20 A	1	1127...	720 VA					1	20 A	RECEPTS RM D123	20
21	DWH-2	20 A	1			1127...	720 VA			1	20 A	RECEPTS RM D123	22
23	SOUND RACK RM. D120	20 A	1					360 VA	1500...	1	20 A	RECEPTS RM D120	24
25	Spare	20 A	1	0 VA	720 VA					1	20 A	Cafeteria South Receptacles	26
27	Spare	20 A	1			0 VA	1200...			1	20 A	WASHING MACHINE RM. D126	28
29	Spare	20 A	1					0 VA	2200...	2	20 A	DRYER RM. D126	30
31	Spare	20 A	1	0 VA	2200...					--	--	--	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	11135 VA		10225 VA		11978 VA					
			Total Amps:	94 A		85 A		101 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	14019 VA	116.68%	16358 VA		
Other	720 VA	100.00%	720 VA	**Total Conn. Load:**	33339 VA
Receptacle - Convenience	10500 VA	80.00%	8400 VA	**Total Est. Demand:**	30828 VA
Receptacle - Refrigerator	1000 VA	80.00%	800 VA	**Total Conn.:**	93 A
Receptacle - Microwave	1500 VA	50.00%	750 VA	**Total Est. Demand:**	86 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

Branch Panel: AL2

Location: STORAGE A203
Supply From: DPLA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM. A216	20 A	1	900 VA	540 VA					1	20 A	RECEPTS RM. A206	2
3	RECEPTS RM. A216	20 A	1			720 VA	900 VA			1	20 A	RECEPTS RM. A206	4
5	RECEPTS RM. A216	20 A	1					900 VA	900 VA	1	20 A	RECEPTS RM. A206	6
7	RECEPTS RM. A217	20 A	1	540 VA	900 VA					1	20 A	RECEPTS RM. A205	8
9	RECEPTS RM. A218	20 A	1			900 VA	900 VA			1	20 A	RECEPTS RM. A205	10
11	RECEPTS RM. A219	20 A	1					900 VA	540 VA	1	20 A	RECEPTS RM. A205	12
13	RECEPTS RM. A223	20 A	1	360 VA	360 VA					1	20 A	RECEPTS RM. A203, A204	14
15	RECEPTS RM. A221	20 A	1			360 VA	180 VA			1	20 A	RECEPT RM. A202	16
17	REFRIGERATOR RM. A221	20 A	1					1000...	540 VA	1	20 A	RECEPT RM. A107	18
19	RECEPTS RM. A220	20 A	1	180 VA	900 VA					1	20 A	RECEPT RM. A107	20
21	RECEPTS CORRIDOR A201, AS1-2	20 A	1			720 VA	900 VA			1	20 A	RECEPT RM. A107	22
23	WATER COOLER CORRIDOR A201	20 A	1					180 VA	900 VA	1	20 A	RECEPT RM. A106	24
25	RECEPTS RM. A117	20 A	1	1080...	900 VA					1	20 A	RECEPT RM. A106	26
27	RECEPTS RM. A117	20 A	1			900 VA	540 VA			1	20 A	RECEPT RM. A106	28
29	RECEPTS RM. A117	20 A	1					720 VA	360 VA	1	20 A	RECEPT RM. A104, A105	30
31	RECEPTS RM. A118	20 A	1	540 VA	180 VA					1	20 A	RECEPT RM. A103	32
33	RECEPTS RM. A119	20 A	1			1080...	180 VA			1	20 A	WATER COOLER RM. A102	34
35	RECEPTS RM. A120	20 A	1					180 VA	1260...	1	20 A	RECEPT CORRIDOR A102	36
37	RECEPTS RM. A123	20 A	1	720 VA	190 VA					1	20 A	EF-A01	38
39	RECEPTS RM. A122	20 A	1			720 VA	420 VA			1	20 A	EF-A05	40
41	REFRIGERATOR RM. A122	20 A	1					1000...	190 VA	1	20 A	EF-A07	42
43	RECEPTS RM. A121	20 A	1	180 VA	0 VA					1	20 A	Spare	44
45	EF-A03	20 A	1			190 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	8470 VA		9610 VA		9570 VA					
			Total Amps:	71 A		81 A		81 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	990 VA	110.61%	1095 VA		
Receptacle - Convenience	24660 VA	80.00%	19728 VA	**Total Conn. Load:**	27650 VA
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA	**Total Est. Demand:**	22423 VA
				Total Conn.:	77 A
				Total Est. Demand:	62 A

Notes:

Branch Panel: AL3

Location: MECHANICAL A211
Supply From: DPLA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM. A210, A211	20 A	1	720 VA	360 VA					1	20 A	RECEPTS CORRIDOR	2
3	RECEPTS RM. A213	20 A	1			540 VA	720 VA			1	20 A	RECEPTS RM. A209	4
5	RECEPTS RM. A213	20 A	1					540 VA	540 VA	1	20 A	RECEPTS RM. A208	6
7	RECEPTS RM. A213	20 A	1	900 VA	900 VA					1	20 A	RECEPTS RM. A208	8
9	RECEPTS RM. A213	20 A	1			900 VA	1080...			1	20 A	RECEPTS RM. A208	10
11	RECEPTS RM. A212	20 A	1					540 VA	720 VA	1	20 A	RECEPTS RM. A207	12
13	RECEPTS RM. A214	20 A	1	900 VA	900 VA					1	20 A	RECEPTS RM. A207	14
15	RECEPTS RM. A214	20 A	1			1080...	540 VA			1	20 A	RECEPTS RM. A207	16
17	RECEPTS RM. A215	20 A	1					1080...	540 VA	1	20 A	RECEPTACLES RM. A109	18
19	RECEPTS RM. A215	20 A	1	900 VA	900 VA					1	20 A	RECEPTACLES RM. A109	20
21	RECEPTACLE RM. A111	20 A	1			540 VA	900 VA			1	20 A	RECEPTACLES RM. A109	22
23	RECEPTACLE RM. A111, A112	20 A	1					720 VA	540 VA	1	20 A	RECEPTACLES RM. A108	24
25	RECEPTACLE RM. A114	20 A	1	1080...	900 VA					1	20 A	RECEPTACLES RM. A108	26
27	RECEPTACLE RM. A114	20 A	1			540 VA	900 VA			1	20 A	RECEPTACLES RM. A108	28
29	RECEPTACLE RM. A114	20 A	1					900 VA	540 VA	1	20 A	RECEPTACLES CORRIDOR A110	30
31	RECEPTACLE RM. A113	20 A	1	540 VA	720 VA					1	20 A	RECEPTACLES CORRIDOR A110	32
33	EF-A02	20 A	1			190 VA	1080...			1	20 A	RECEPTACLE RM. A115	34
35	EF-A04	20 A	1					190 VA	900 VA	1	20 A	RECEPTACLE RM. A115	36
37	EF-A06	20 A	1	420 VA	0 VA					1	20 A	Spare	38
39	RECEPTACLE RM. A116	20 A	1			1080...	0 VA			1	20 A	Spare	40
41	RECEPTACLE RM. A116	20 A	1					1080...	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	10140 VA		10090 VA		8830 VA					
			Total Amps:	86 A		86 A		74 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	800 VA	113.13%	905 VA		
Receptacle - Convenience	28260 VA	80.00%	22608 VA	**Total Conn. Load:**	29060 VA
				Total Est. Demand:	23513 VA
				Total Conn.:	81 A
				Total Est. Demand:	65 A

Notes:

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803555 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-604

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Branch Panel: BL1

Location: CL. E116 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DPLB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPT RM. E114	20 A	1	900 VA	1500...		1	20 A	COPIER RM. E117	2
3	RECEPT RM. E112, E113	20 A	1		360 VA	900 VA	1	20 A	RECEPT RM. E117	4
5	RECEPTS RM. E110	20 A	1			1080...	1500...	1	20 A	MICROWAVE RM. E117	6
7	RECEPTS RM. E108	20 A	1	720 VA	1000...			1	20 A	REFRIGERATOR RM. E117	8
9	RECEPTS RM. E108	20 A	1		540 VA	540 VA		1	20 A	RECEPTS RM. E118	10
11	RECEPTS RM. E107	20 A	1			900 VA	720 VA	1	20 A	RECEPTS RM. E119	12
13	RECEPTS RM. E106	20 A	1	900 VA	540 VA			1	20 A	RECEPTS RM. E119	14
15	RECEPTS RM. E105	20 A	1		900 VA	1000...		1	20 A	REFRIGERATOR RM. E121	16
17	RECEPTS RM. E105	20 A	1			540 VA	540 VA	1	20 A	RECEPTS RM. E121	18
19	RECEPTS RM. E101, E102	20 A	1	540 VA	360 VA			1	20 A	RECEPTS RM. E121, E122	20
21	RECEPTS CORRIDOR B101, E109, E111, E120	20 A	1		1440...	1260...		1	20 A	RECEPTS RM. E123	22
23	GYM SCOREBOARD	20 A	1			100 VA	1260...	1	20 A	RECEPTS RM. E124	24
25	GYM SCOREBOARD	20 A	1	100 VA	900 VA			1	20 A	RECEPTS RM. E125	26
27	EF-E01	20 A	1		190 VA	900 VA		1	20 A	RECEPTS RM. E126	28
29	EF-E02	20 A	1			190 VA	720 VA	1	20 A	RECEPTS RM. E127	30
31	EF-E03	20 A	1	420 VA	360 VA			1	20 A	RECEPTS RM. E127	32
33	EF-E04	20 A	1		190 VA	720 VA		1	20 A	RECEPTS RM. E127	34
35	ESP-1	20 A	1			1127...	180 VA	1	20 A	RECEPT RM. E116	36
37	AUTOMATIC DOOR OPERATOR RM. E101	20 A	1	690 VA	1080...			1	20 A	RECEPTS RM. E103	38
39	Spare	20 A	1		0 VA	1080...		1	20 A	RECEPTS RM. E119	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	44
45	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	46
47	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	50
51	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	52
53	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	56
57	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	58
59	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	60
			Total Load:	10010 VA	10020 VA	8857 VA				
			Total Amps:	85 A	85 A	74 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2807 VA	110.04%	3089 VA	
Other	200 VA	100.00%	200 VA	**Total Conn. Load:** 28887 VA
Receptacle - Convenience	20880 VA	80.00%	16704 VA	**Total Est. Demand:** 23543 VA
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA	**Total Conn.:** 80 A
Receptacle - Microwave	1500 VA	50.00%	750 VA	**Total Est. Demand:** 65 A
Receptacle - Copy Machine	1500 VA	80.00%	1200 VA	

Notes:

Branch Panel: BL2

Location: ELECTRICAL B221 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: DPLB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPTS COORIDOR B.210	20 A	1	900 VA	900 VA		1	20 A	RECEPTS RM. B211	2
3	RECEPTS RM. B209	20 A	1			720 VA	1080...	1	20 A	RECEPTS RM. B211, B212, B213	4
5	RECEPTS RM. B208	20 A	1				720 VA	900 VA	1	20 A	RECEPTS RM. B211, B214	6
7	RECEPTS RM. B208	20 A	1	900 VA	720 VA				1	20 A	RECEPTS RM. B215, B217	8
9	RECEPTS RM. B208, B207	20 A	1		540 VA	360 VA			1	20 A	RECEPTS RM. B217	10
11	RECEPTS RM. B206	20 A	1				720 VA	720 VA	1	20 A	RECEPTS RM. B217	12
13	RECEPTS RM. B204	20 A	1	720 VA	720 VA				1	20 A	RECEPTS RM. B219, B220	14
15	RECEPTS RM. B204	20 A	1			720 VA	900 VA		1	20 A	RECEPTS RM. B220	16
17	RECEPTS RM. B204	20 A	1				540 VA	1080...	1	20 A	RECEPTS RM. B110	18
19	RECEPTS RM. B221, B222	20 A	1	360 VA	720 VA				1	20 A	RECEPTS RM. B110	20
21	RECEPTS CORRIDOR B201, B202, B203, RM....	20 A	1		1620...	900 VA			1	20 A	RECEPTS RM. B110, B112	22
23	RECEPTS CORRIDOR B109	20 A	1			900 VA	900 VA		1	20 A	RECEPTS RM. B111	24
25	RECEPTS RM. B108	20 A	1	540 VA	1080...				1	20 A	RECEPTS RM. B113	26
27	RECEPTS RM. B107	20 A	1		900 VA	1080...			1	20 A	RECEPTS RM. B114	28
29	RECEPTS RM. B107	20 A	1				720 VA	900 VA	1	20 A	RECEPTS RM. B114	30
31	RECEPTS RM. B107	20 A	1	720 VA	540 VA				1	20 A	RECEPTS RM. B114	32
33	RECEPTS RM. B106	20 A	1		720 VA	1080...			1	20 A	RECEPTS RM. B119	34
35	RECEPTS RM. B106	20 A	1				720 VA	720 VA	1	20 A	RECEPTS RM. B119	36
37	RECEPTS RM. B106	20 A	1	720 VA	360 VA				1	20 A	RECEPTS RM. B119	38
39	RECEPTS RM. B105	20 A	1		540 VA	180 VA			1	20 A	RECEPTS RM. B116	40
41	REFRIGERATOR RM. B105	20 A	1				600 VA	1260...	1	20 A	RECEPTS RM. B120	42
43	MICROWAVE RM. B105	20 A	1	1500...	190 VA				1	20 A	EF-B05	44
45	RECEPTS RM. B104	20 A	1		720 VA	190 VA			1	20 A	EF-B06	46
47	RECEPTS RM. B103	20 A	1				900 VA	720 VA	1	20 A	GATHERING STAIR MONITORS	48
49	RECEPTS RM. B103	20 A	1	900 VA	720 VA				1	20 A	CORD REELS RM B116	50
51	RECEPTS RM. B103	20 A	1		720 VA	720 VA			1	20 A	CORD REELS RM B114	52
53	RECEPTS FLOOR RM B103	20 A	1				720 VA	360 VA	1	20 A	MAIN CORRIDOR RECEPTS	54
55	EF-B01	20 A	1	420 VA	167 VA				3	20 A	KILN RM B108	56
57	EF-B04	20 A	1		190 VA	167 VA			--	--	--	58
59	EF-B02	20 A	1				190 VA	167 VA	--	--	--	60
61	EF-B03	20 A	1	190 VA	900 VA				1	20 A	RECEPTS RM. D203	62
63	Spare	20 A	1		0 VA	720 VA			1	20 A	GATHERING STAIR RECEPTS.	64
65	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	68
69	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	70
71	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	72
73	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	74
75	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	76
77	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	80
81	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	84
			Total Load:	14887 VA	14767 VA	14457 VA				
			Total Amps:	124 A	123 A	120 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	1370 VA	107.66%	1475 VA	
Other	500 VA	100.00%	500 VA	**Total Conn. Load:** 44110 VA
Receptacle - Convenience	40140 VA	80.00%	32112 VA	**Total Est. Demand:** 35257 VA
Receptacle - Undercounter Ref.	600 VA	70.00%	420 VA	**Total Conn.:** 122 A
Receptacle - Microwave	1500 VA	50.00%	750 VA	**Total Est. Demand:** 98 A

Notes:

Branch Panel: BL3

Location: SOUND LIGHT ELEC E129 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DPLB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EF-F01	20 A	1	190 VA	190 VA		1	20 A	EF-F02	2
3	EF-F03	20 A	1		190 VA	3600...	3	20 A	CCP-1	4
5	RECEPT BACK OF STAGE	20 A	1			360 VA	3600...	--	--	6
7	STAGE RECEPTS	20 A	1	900 VA	3600...			--	--	8
9	RECEPTS RM E128-E129	20 A	1		720 VA	1080...		1	20 A	RECEPT RM E133	10
11	RECEPTS RM E135-E136	20 A	1			360 VA	540 VA	1	20 A	RECEPTS GYM EAST	12
13	THEATRICAL RELAY PANEL	60 A	3	2000...	345 VA			1	20 A	PROJECTOR SCREEN RM E132	14
15	--	--	--		2000...	1840...		1	20 A	WRESTLING MAT HOIST RM. F101	16
17	--	--	--				2000...	600 VA	1	20 A	BACKSTOP AND DIVIDER CURTAIN TOUCHPAD	18
19	BB BACKSTOP "NW" RM. F101	20 A	1	1840...	1840...				1	20 A	BB BACKSTOP "NE" RM. F101	20
21	BB BACKSTOP "SW" RM. F101	20 A	1		1840...	1840...			1	20 A	BB BACKSTOP "SE" RM. F101	22
23	BB BACKSTOP "W" RM. F101	20 A	1				1840...	1840...	1	20 A	BB BACKSTOP "E" RM. F101	24
25	GYM DIVIDER CURTAIN RM. F101	20 A	1	1587...	360 VA				1	20 A	TECH SOUND RACK RM. E129	26
27	Spare	20 A	1		0 VA	360 VA			1	20 A	TECH SOUND RACK RM. E129	28
29	Spare	20 A	1			0 VA	720 VA		1	20 A	FLOOR BOX RM. F101	30
31	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	42
			Total Load:	12852 VA	13470 VA	11860 VA				
			Total Amps:	108 A	114 A	99 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	26182 VA	110.31%	28882 VA	
Spare	6000 VA	100.00%	6000 VA	**Total Conn. Load:** 38182 VA
Power	600 VA	100.00%	600 VA	**Total Est. Demand:** 39802 VA
Receptacle - Convenience	5400 VA	80.00%	4320 VA	**Total Conn.:** 106 A
				Total Est. Demand: 110 A

Notes:

Branch Panel: CL1

Location: ELECTRICAL F206 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: DPLC | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPTS RM F102	20 A	1	540 VA	720 VA		1	20 A	RECEPTS RM F103	2
3	RECEPTS RM F104, F105	20 A	1		540 VA	540 VA	1	20 A	RECEPTS RM F107	4
5	RECEPTS RM F108	20 A	1			540 VA	360 VA	1	20 A	RECEPTS RM F106	6
7	RECEPTS RM F109, F110	20 A	1	360 VA	540 VA			1	20 A	RECEPTS RM F111	8
9	RECEPTS RM F111	20 A	1		360 VA	180 VA		1	20 A	RECEPTS F102 WATER COOLER	10
11	RECEPTS RM F112	20 A	1			540 VA	360 VA	1	20 A	RECEPTS RM F113	12
13	RECEPTS RM F119, F118	20 A	1	360 VA	540 VA			1	20 A	RECEPTS RM F116	14
15	RECEPTS RM F115, F114	20 A	1		540 VA	540 VA		1	20 A	RECEPTS RM F120	16
17	RECEPTS RM F121, STAIRS	20 A	1			540 VA	540 VA	1	20 A	RECEPTS RM F117	18
19	RECEPTS F117 ICE MAKER	20 A	1	180 VA	1000...			1	20 A	RECEPTS F117 FRIDGE	20
21	EXTERIOR SIGN	20 A	1		240 VA	1150...		2	20 A	CUH-F03	22
23	EXTERIOR SIGN	20 A	1			240 VA	1150...	--	--	--	24
25	RECEPTS RM F201	20 A	1	540 VA	720 VA			1	20 A	RECEPTS RM F204	26
27	RECEPTS RM F204	20 A	1		720 VA	540 VA		1	20 A	RECEPTS RM F205-F206	28
29	RECEPTS RM F203	20 A	1			720 VA	900 VA	1	20 A	RECEPTS RM F203	30
31	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5500 VA	5350 VA	5890 VA				
			Total Amps:	46 A	45 A	49 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2300 VA	125.00%	2875 VA	
Spare	480 VA	100.00%	480 VA	**Total Conn. Load:** 16740 VA
Receptacle - Convenience	12960 VA	80.00%	10368 VA	**Total Est. Demand:** 14523 VA
Receptacle - Refrigerator	1000 VA	80.00%	800 VA	**Total Conn.:** 46 A
				Total Est. Demand: 40 A

Notes:

Branch Panel: CL2

Location: STORAGE C221 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DPLC | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPTS RM. C219	20 A	1	900 VA	720 VA		1	20 A	RECEPTS RM. C209	2
3	RECEPTS RM. C219	20 A	1			540 VA	900 VA	1	20 A	RECEPTS RM. C209	4
5	RECEPTS RM. C219	20 A	1				900 VA	720 VA	1	20 A	RECEPTS RM. C209	6
7	RECEPTS RM. C220	20 A	1	900 VA	540 VA				1	20 A	RECEPTS RM. C208	8
9	RECEPTS RM. C220	20 A	1			900 VA	900 VA		1	20 A	RECEPTS RM. C207	10
11	RECEPTS RM. C220	20 A	1				540 VA	900 VA	1	20 A	RECEPTS RM. C206	12
13	RECEPTS RM. C221, C222	20 A	1	360 VA	720 VA				1	20 A	RECEPTS RM. C205, C204	14
15	RECEPT CORRIDOR C201	20 A	1			1260...	360 VA		1	20 A	RECEPT RM. C122, C123	16
17	RECEPT RM. C223	20 A	1				180 VA	1440...	1	20 A	RECEPTS CORRIDOR C101	18
19	RECEPTS RM. C118	20 A	1	540 VA	180 VA				1	20 A	RECEPTS RM. C201	20
21	RECEPTS RM. C118	20 A	1		900 VA	180 VA			1	20 A	WATER COOLER CORRIDOR C201	22
23	RECEPTS RM. C118	20 A	1				900 VA	720 VA	1	20 A	RECEPTS RM. C108	24
25	RECEPTS RM. C119	20 A	1	900 VA	1260...				1	20 A	RECEPTS RM. C108	26
27	RECEPTS RM. C119	20 A	1		900 VA	720 VA			1	20 A	RECEPTS RM. C108	28
29	RECEPTS RM. C119	20 A	1				720 VA	540 VA	1	20 A	RECEPTS RM. C107	30
31	EF-C03	20 A	1	190 VA	1080...				1	20 A	RECEPTS RM. C106	32
33	EF-C04	20 A	1		420 VA	360 VA			1	20 A	RECEPTS RM. C105, C104	34
35	REFRIGERATOR RM. C121	20 A	1				1000...	540 VA	1	20 A	RECEPTS RM. C103	36
37	RECEPTS RM. C121	20 A	1	720 VA	1500...				1	20 A	DISHWASHER RM. C121	38
39	DRYER RM. C121	30 A	2			2200...	1000...		1	20 A	REFRIGERATOR RM. C103	40
41	--	--	--				2200...	720 VA	1	20 A	RECEPTS RM. C102	42
43	WASHING MACHINE RM. C121	20 A	1	1200...	180 VA				1	20 A	WATER COOLER CORRIDOR C101	44
45	FUME HOOD RM. C103	20 A	1			1000...	0 VA		1	20 A	Spare	46
47	RECEPTS RM C216	20 A	1				720 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	52
53	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	56
57	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	60
			Total Load:	11890 VA	12540 VA	12740 VA				
			Total Amps:	99 A	105 A	107 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	610 VA	117.21%	715 VA	
Other	1000 VA	100.00%	1000 VA	**Total Conn. Load:** 37170 VA
Receptacle - Convenience	27960 VA	80.00%	22368 VA	**Total Est. Demand:** 29483 VA
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA	**Total Conn.:** 103 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA	**Total Est. Demand:** 82 A
Receptacle - Dryer	4400 VA	70.00%	3080 VA	

Notes:

Branch Panel: CL3

Location: MECHANICAL C214 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DPLC | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPTACLES RM. C217	20 A	1	900 VA	720 VA		1	20 A	RECEPTACLES RM. C215	2
3	RECEPTACLES RM. C217	20 A	1		540 VA	540 VA	1	20 A	RECEPTACLES RM. C214, C215	4
5	RECEPTACLES RM. C217	20 A	1			900 VA	900 VA	1	20 A	RECEPTACLES RM. C212	6
7	RECEPTACLES RM. C218	20 A	1	900 VA	720 VA			1	20 A	RECEPTACLES RM. C212	8
9	RECEPTACLES RM. C218	20 A	1		900 VA	540 VA		1	20 A	RECEPTACLES RM. C212	10
11	RECEPTACLES RM. C218	20 A	1			540 VA	540 VA	1	20 A	RECEPTACLES RM. C213	12
13	RECEPTACLE COORIDOR RM. C216	20 A	1	540 VA	720 VA			1	20 A	RECEPTACLES RM. C211	14
15	RECEPTACLES RM. C116	20 A	1		900 VA	1080...		1	20 A	RECEPTACLES RM. C211	16
17	RECEPTACLES RM. C116	20 A	1				540 VA	1080...	1	20 A	RECEPTACLES RM. C210	18
19	RECEPTACLES RM. C116	20 A	1	900 VA	720 VA				1	20 A	RECEPTACLES RM. C210	20
21	RECEPTACLES RM. C117	20 A	1		900 VA	540 VA			1	20 A	RECEPTACLES RM. C113, C114	22
23	RECEPTACLES RM. C117	20 A	1				900 VA	720 VA	1	20 A	RECEPTACLES RM. C114	24
25	RECEPTACLES RM. C117	20 A	1	540 VA	900 VA				1	20 A	RECEPTACLES RM. C111	26
27	CORRIDOR C115 EXTERIOR RECEPTACLE	20 A	1			540 VA	540 VA		1	20 A	RECEPTACLES RM. C111	28
29	CORRIDOR C115 FLOOR RECEPTACLES	20 A	1				720 VA	900 VA	1	20 A	RECEPTACLES RM. C111	30
31	EF-C01	20 A	1	190 VA	540 VA				1	20 A	RECEPTACLES RM. C112	32
33	EF-C02	20 A	1		190 VA	1080...			1	20 A	RECEPTACLES RM. C110	34
35	EF-C05	20 A	1				420 VA	720 VA	1	20 A	RECEPTACLES RM. C110	36
37	EF-C06	20 A	1	420 VA	720 VA				1	20 A	RECEPTACLES RM. C109	38
39	EF-C07	20 A	1			190 VA	1080...		1	20 A	RECEPTACLES RM. C109	40
41	EF-C08	20 A	1				190 VA	720 VA	1	20 A	RECEPTACLES RM. C109, C110	42
43	EF-C09	20 A	1	1370...	0 VA				1	20 A	Spare	44
45	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	50
51	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA				1	20 A	Spare	56
57	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	60
			Total Load:	10800 VA	9560 VA	9790 VA				
			Total Amps:	90 A	80 A	82 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2970 VA	111.53%	3313 VA	
Receptacle - Convenience	27180 VA	80.00%	21744 VA	**Total Conn. Load:** 30150 VA
				Total Est. Demand: 25057 VA
				Total Conn.: 84 A
				Total Est. Demand: 70 A

Notes:

The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

PROFESSIONAL ENGINEER BRIAN W. BUTLER REGISTERED No. PE19800108 STATE OF INDIANA

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 2	11.11.25
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-605

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11/24/2025 4:04:35 PM

Branch Panel: DPHS

Location: ELEC G106
Supply From:
Mounting:
Enclosure: Type 4X

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating:
MCB Rating: 1 A

Notes:
ENCLOSURE TO BE TYPE 4X IF CONCESSION ALTERNATE IS NOT TAKEN OR TYPE 1 IF ALTERNATE IS TAKEN.

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	TG1	100 A	3	11102 VA	10177 VA	10827 VA
4,5,6	TG2	50 A	3	14000 VA	14000 VA	14000 VA
7	GL-S CONTACT	30 A	1	10000 VA		
8	GL-S CONTACT	30 A	1		10000 VA	
9	GL-S CONTACT	30 A	1			10000 VA
10	GL-S CONTACT	30 A	1	10000 VA		
11	GL-S CONTACT	30 A	1		10000 VA	
12	GL-S CONTACT	30 A	1			10000 VA
13						
14						
15						
16						
17						
18						
19						
20						
21						
			Total Load:	45102 VA	44177 VA	44827 VA
			Total Amps:	163 A	159 A	162 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	26290 VA	110.27%	28990 VA	
Spare	102660 VA	100.00%	102660 VA	**Total Conn. Load:** 134105 VA
Lighting	1095 VA	125.00%	1369 VA	**Total Est. Demand:** 136267 VA
Receptacle - Convenience	3060 VA	80.00%	2448 VA	**Total Conn. Current:** 161 A
Receptacle - Refrigerator	1000 VA	80.00%	800 VA	**Total Est. Demand Current:** 164 A

Notes:

Branch Panel: GL1

Location: ELEC G106
Supply From: TG1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM G101 REFRIGERATOR	20 A	1	1000...	190 VA					1	20 A	EF-G01	2
3	RECEPTS RM G101	20 A	1			180 VA	1000...			1	20 A	EF-G02	4
5	RECEPTS RM G101	20 A	1					180 VA	3600...	3	20 A	EDH-G01	6
7	RECEPTS RM G101	20 A	1	180 VA	3600...					--	--	--	8
9	RECEPTS RM G101	20 A	1			180 VA	3600...			--	--	--	10
11	RECEPTS RM G101	20 A	1					180 VA	1000...	1	20 A	CUH-G01	12
13	RECEPTS RM G101	20 A	1	180 VA	1150...					2	20 A	CUH-G02	14
15	RECEPTS RM G101	20 A	1			180 VA	1150...			--	--	--	16
17	RECEPTS RM G101	20 A	1					180 VA	1500...	2	20 A	CUH-G03	18
19	RECEPTS RM. G102, G103, G106	20 A	1	540 VA	1500...					--	--	--	20
21	RECEPTS RM. G104, G105	20 A	1			360 VA	1500...			2	20 A	CUH-G04	22
23	RECEPTS CONCESSION EXT	20 A	1					720 VA	1500...	--	--	--	24
25	LTG RM G101-G106	20 A	1	1095...	1667...					3	20 A	CUH-G05	26
27	TRACK IN GROUND RECEPTS	20 A	1			360 VA	1667...			--	--	--	28
29	STADIUM SCOREBOARD	20 A	1					300 VA	1667...	--	--	--	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	11102 VA		10177 VA		10827 VA					
			Total Amps:	93 A		85 A		91 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	26290 VA	110.27%	28990 VA	
Spare	660 VA	100.00%	660 VA	**Total Conn. Load:** 32105 VA
Lighting	1095 VA	125.00%	1369 VA	**Total Est. Demand:** 34267 VA
Receptacle - Convenience	3060 VA	80.00%	2448 VA	**Total Conn.:** 89 A
Receptacle - Refrigerator	1000 VA	80.00%	800 VA	**Total Est. Demand:** 95 A

Notes:

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

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ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10500 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS
DRAWN BY: ANE
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-606

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Branch Panel: SBAH1

Location: STORAGE D103 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	TSB	20 A	3	8654... 0 VA			1	20 A	Spare	2
3	--	--	--		1003... 0 VA		1	20 A	Spare	4
5	--	--	--			8119... 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
			Total Load:	8654 VA	10039 VA	8119 VA				
			Total Amps:	32 A	37 A	29 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1000 VA	125.00%	1250 VA		
Other	19333 VA	100.00%	19333 VA	**Total Conn. Load:**	26813 VA
Receptacle - Convenience	6480 VA	80.00%	5184 VA	**Total Est. Demand:**	25767 VA
				Total Conn.:	32 A
				Total Est. Demand:	31 A

Notes:

Branch Panel: SBAL1

Location: STORAGE D103 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TSB1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Walk-in	20 A	1	1920... 360 VA			1	20 A	TECH RACK RM A104	2
3	Walk-in	20 A	1		1920... 360 VA		1	20 A	TECH RACK RM A104	4
5	Freezer Condensing Unit	20 A	3			2177... 360 VA	1	20 A	TECH RACK RM A104	6
7	--	--	--	2177... 360 VA			1	20 A	TECH RACK RM A104	8
9	--	--	--		2177... 360 VA		1	20 A	TECH RACK RM A104	10
11	Cooler Condensing Unit	20 A	3			1213... 360 VA	1	20 A	TECH RACK RM A104	12
13	--	--	--	1213... 360 VA			1	20 A	TECH RACK RM A104	14
15	--	--	--		1213... 360 VA		1	20 A	TECH RACK RM A104	16
17	Spare	20 A	1			0 VA 360 VA	1	20 A	TECH RACK RM A222	18
19	Cooler Evaporator	20 A	1	184 VA 360 VA			1	20 A	TECH RACK RM A222	20
21	Freezer Evaporator	20 A	2		2569... 360 VA		1	20 A	TECH RACK RM B115	22
23	--	--	--			2569... 360 VA	1	20 A	TECH RACK RM B115	24
25	HWCP-1	20 A	1	1000... 360 VA			1	20 A	TECH RACK RM C203	26
27	Spare	20 A	1		0 VA 360 VA		1	20 A	TECH RSCK RM C203	28
29	Spare	20 A	1			0 VA 360 VA	1	20 A	TECH RACK RM C203	30
31	Spare	20 A	1	0 VA 360 VA			1	20 A	TECH RACK RM C203	32
33	Spare	20 A	1		0 VA 360 VA		1	20 A	TECH RACK RM E115	34
35	Spare	20 A	1			0 VA 360 VA	1	20 A	TECH RACK RM E115	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	8654 VA	10039 VA	8119 VA				
			Total Amps:	73 A	84 A	68 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1000 VA	125.00%	1250 VA		
Other	19333 VA	100.00%	19333 VA	**Total Conn. Load:**	26813 VA
Receptacle - Convenience	6480 VA	80.00%	5184 VA	**Total Est. Demand:**	25767 VA
				Total Conn.:	74 A
				Total Est. Demand:	72 A

Notes:

Branch Panel: XAL1

Location: STORAGE D103 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TX1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 60 A
Enclosure: Type 1 | **MCB Rating:** 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FIRE ALARM CONTROL PANEL	20 A	1	480 VA 0 VA			1	20 A	Spare	2
3	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	4
5	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
			Total Load:	480 VA	0 VA	0 VA				
			Total Amps:	4 A	0 A	0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	480 VA	100.00%	480 VA		
				Total Conn. Load:	480 VA
				Total Est. Demand:	480 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Notes:

Branch Panel: KH1

Location: Space FS1-5 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Disposer	20 A	3	1663... 2438...			3	20 A	Dishwasher	2
3	--	--	--		1663... 2438...		--	--	--	4
5	--	--	--			1663... 2438...	--	--	--	6
7	Oven / Steamer	20 A	3	6433... 6433...			3	20 A	Oven / Steamer	8
9	--	--	--		6433... 6433...		--	--	--	10
11	--	--	--			6433... 6433...	--	--	--	12
13	Disposer	20 A	3	665 VA 3437...			3	20 A	Hood Exhaust Fan	14
15	--	--	--		665 VA 3437...		--	--	--	16
17	--	--	--			665 VA 3437...	--	--	--	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	43019 VA	43019 VA	43019 VA				
			Total Amps:	155 A	155 A	155 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	129056 VA	100.00%	129056 VA		
				Total Conn. Load:	129056 VA
				Total Est. Demand:	129056 VA
				Total Conn.:	155 A
				Total Est. Demand:	155 A

Notes:

Branch Panel: KL1

Location: Space FS1-5 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Dishwasher Ventilation System	20 A	1	720 VA 791 VA			2	15 A	Merchandiser	2
3	Detergent Injector System	20 A	1		1920... 791 VA		--	--	--	4
5	Tray Dryer	20 A	1			1920... 791 VA	2	15 A	Merchandiser	6
7	Drain Water Tempering	20 A	1	1920... 791 VA			--	--	--	8
9	Ala Cart Merchandiser	15 A	1		978 VA 791 VA		2	15 A	Merchandiser	10
11	Ice Maker	20 A	1			690 VA 791 VA	--	--	--	12
13	Warming Cabinet	20 A	1	2004... 791 VA			2	15 A	Merchandiser	14
15	Tilting Kettle	20 A	1		1200... 791 VA		--	--	--	16
17	Braising Pan	15 A	1			500 VA 1500...	2	20 A	Mobile Heated Cabinet	18
19	Six Burner Range	15 A	1	1440... 1500...			--	--	--	20
21	Convection Steamer	20 A	1		300 VA 1500...		2	20 A	Mobile Heated Cabinet	22
23	Convection Oven	15 A	1			1896... 1500...	--	--	--	24
25	Convection Oven	15 A	1	1896... 1047...			1	15 A	Mobile Refrigerator	26
27	Convection Oven	15 A	1		1896... 437 VA		1	20 A	Mobile Refrigerator	28
29	Convection Oven	15 A	1			1896... 540 VA	1	20 A	Ala Cart Receptacles	30
31	Display Fridge	20 A	1	621 VA 540 VA			1	20 A	Ala Cart Receptacles	32
33	POS System	15 A	1		1440... 1200...		1	20 A	Kitchen Counter Convenience Receptacles	34
35	POS System	15 A	1			1440... 1560...	1	20 A	Kitchen Counter Convenience Receptacles	36
37	Fire Supression System	20 A	1	1920... 720 VA			1	20 A	Kitchen Storage Receptacles	38
39	Ventilation Hood	20 A	1		1920... 2500...		2	30 A	Hot Water Dispenser	40
41	Make-up Air Furance	20 A	1			1200... 2500...	--	--	--	42
43	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	44
45	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	46
47	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	50
51	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	52
53	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	56
57	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	58
59	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	60
			Total Load:	16700 VA	17663 VA	18723 VA				
			Total Amps:	139 A	148 A	157 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	52545 VA	100.00%	52545 VA		
Receptacle - Convenience	540 VA	80.00%	432 VA	**Total Conn. Load:**	53085 VA
				Total Est. Demand:	52977 VA
				Total Conn.:	147 A
				Total Est. Demand:	147 A

Notes:

Branch Panel: KL2

Location: Space FS1-5 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: TK1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Vegetable Prep Table	20 A	1	1920... 2250...			2	20 A	Hot/Cold/Freeze Table	2
3	Vegetable Prep Table	20 A	1		1920... 2250...		--	--	--	4
5	Vegetable Prep Table	20 A	1			1920... 1248...	2	20 A	Hot/Cold/Freeze Table	6
7	Vegetable Prep Table	20 A	1	1920... 1248...			--	--	--	8
9	Vegetable Prep Table	20 A	1		1920... 2496...		2	20 A	Hot/Cold/Freeze Table	10
11	Vegetable Prep Table	20 A	1			1920... 2496...	--	--	--	12
13	Island Work Table	20 A	1	1920... 2250...			2	20 A	Hot/Cold/Freeze Table	14
15	Island Work Table	20 A	1		1920... 2250...		--	--	--	16
17	Island Work Table	20 A	1			1920... 1248...	2	20 A	Hot/Cold/Freeze Table	18
19	Island Work Table	20 A	1	1920... 1248...			--	--	--	20
21	Island Work Table	20 A	1		1920... 2250...		2	20 A	Hot/Cold/Freeze Table	22
23	Island Work Table	20 A	1			1920... 2250...	--	--	--	24
25	Island Prep Table	20 A	1	1920... 2496...			2	20 A	Hot/Cold/Freeze Table	26
27	Island Prep Table	20 A	1		1920... 2496...		--	--	--	28
29	Island Prep Table	20 A	1			1920... 2496...	2	20 A	Hot/Cold/Freeze Table	30
31	Island Prep Table	20 A	1	1920... 2496...			--	--	--	32
33	Island Prep Table	20 A	1		1920... 0 VA		1	20 A	Spare	34
35	Island Prep Table	20 A	1			1920... 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	23508 VA	23262 VA	21258 VA				
			Total Amps:	198 A	196 A	177 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	68028 VA	100.00%	68028 VA		
				Total Conn. Load:	68028 VA
				Total Est. Demand:	68028 VA
				Total Conn.:	189 A
				Total Est. Demand:	189 A

Notes:

The New Wallace Aylesworth Middle School
5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19900108 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS
DRAWN BY: ANE
PROJECT NUMBER: 223047.01
PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

PANELBOARD SCHEDULES

E-607

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The New Wallace Aylesworth Middle School

5910 Central Ave., Portage, Indiana 46368

PORTAGE TOWNSHIP SCHOOLS

PORTAGE TOWNSHIP SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. New York St. Suite 300, Indianapolis, Indiana 46204

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

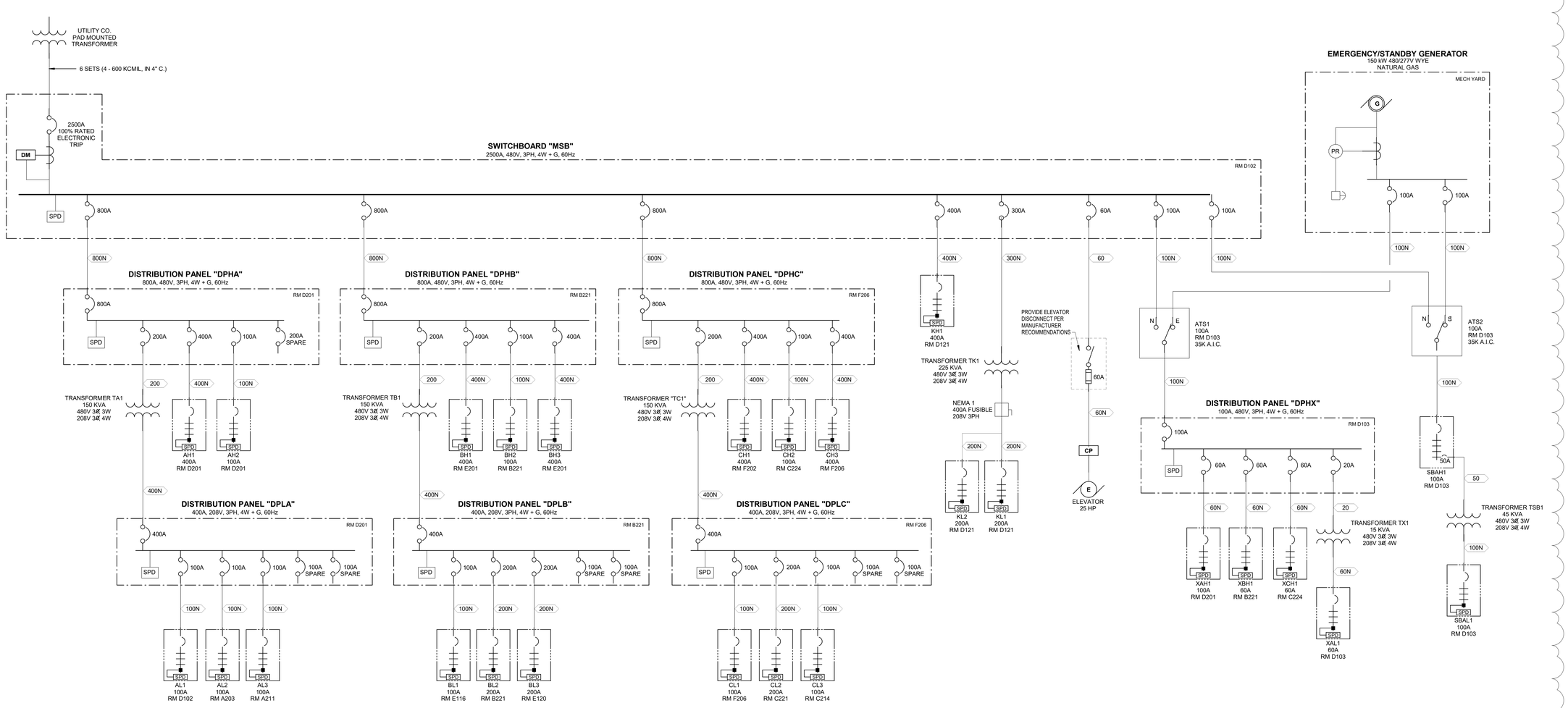
PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

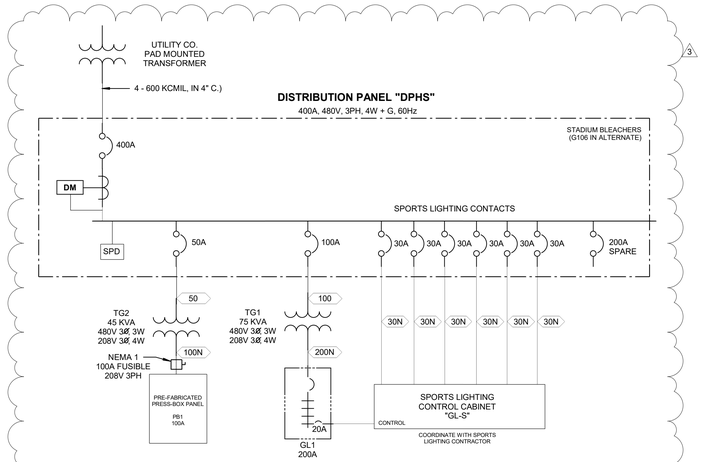
REV. NO.	DESCRIPTION	DATE
3	Addendum No. 4	11.25.25

ELECTRICAL ONE-LINE DIAGRAM

E-701



ELECTRICAL ONE LINE DIAGRAM



STADIUM ONE-LINE DIAGRAM

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

ONE LINE DIAGRAM SYMBOLS

1AL1	MAIN LUG ONLY CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	DM	DIGITAL ELECTRONIC POWER METER	KH	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED SWITCH		FUSED SWITCH IN SWITCHBOARD, 3P UNO
		K	KIRK KEY INTERLOCK				DISCONNECT SWITCH IN SWITCHBOARD, 3P UNO
		M	UTILITY METER			SPG	FUSED BOLTED PRESSURE SWITCH WITH GROUND FAULT AND SINGLE PHASE PROTECTION, 3P UNO
2AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	XXXA 5AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SUB-FEED BREAKER. REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	KC	COMBINATION MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER	N E	TRANSFER SWITCH
3AL1	THROUGH FEED LUGS CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 6AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH INTEGRAL BUS CONNECTED SPD. REFER TO E8 SERIES DRAWINGSFOR PANELBOARD SCHEDULES	KM	COMBINATION MAGNETIC MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR		DISCONNECT, 3P UNO
							MOLDED CASE CIRCUIT BREAKER, 3P UNO
				VSC	COMBINATION MAGNETIC MOTOR STARTER WITH VARIABLE SPEED CONTROLLER		CIRCUIT BREAKER IN SWITCHBOARD, 3P UNO
							INSULATED CASED POWER CIRCUIT BREAKER WITH L.I.S.G. PROTECTION FEATURES, 3P UNO
4AL1	MAIN DOUBLE LUG CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 7AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SPD MOUNTED ADJACENT WITH CLOSED NIPPLE. REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	EO	COMBINATION MAGNETIC MOTOR STARTER WITH ELECTRONIC OVERLOADS		DRAWOUT CIRCUIT BREAKER, 3P UNO
						S	SHUNT TRIP OPERATED CIRCUIT BREAKER

	FUSED POTENTIAL TRANSFORMER
	CURRENT TRANSFORMERS, 3 UNO
	CAPACITOR
	EARTH GROUND
LA	LIGHTNING ARRESTER
	PLUG AND RECEPTACLE OR DRAWOUT DEVICE
	POWER TRANSFORMER
X	3 PHASE MOTOR. X INDICATES HORSEPOWER OR KILOWATTS
CP	CONTROL PANEL FURNISHED UNDER DIVISION 25
G	GENERATOR

COPPER FEEDER SCHEDULE

SOURCE 2014 NEC T310.15(B)(16), COPPER 75C. (THHW, THW, THWN, XHHW)

X	NO.	CONDUCTOR SIZE			CONDUIT
FEEDER	OF	PHASE	NEUTRAL	GROUND	SIZE
LEGEND	SETS	QTY	(1)	(1)	Inches
15	1	3 # 14		#14	3/4
15N	1	3 # 14	#14	#14	3/4
20	1	3 # 12		#12	3/4
20N	1	3 # 12	#12	#12	3/4
30	1	3 # 10		#10	3/4
30N	1	3 # 10	#10	#10	3/4
40	1	3 # 8		#10	3/4
40N	1	3 # 8	#8	#10	3/4
60	1	3 # 6		#10	1
60N	1	3 # 6	#6	#10	1
80	1	3 # 4		#8	1 1/4
80N	1	3 # 4	#4	#8	1 1/4
100	1	3 # 3		#8	1 1/2
100N	1	3 # 3	#3	#8	1 1/2
125	1	3 # 1		#6	2
125N	1	3 # 1	#1	#6	2
150	1	3 # 1/0		#6	2
150N	1	3 # 1/0	#1/0	#6	2
175	1	3 # 2/0		#6	2
175N	1	3 # 2/0	#2/0	#6	2
200	1	3 # 3/0		#6	2
200N	1	3 # 3/0	#3/0	#6	2
225	1	3 # 4/0		#4	2 1/2
225N	1	3 # 4/0	#4/0	#4	2 1/2
250	1	3 # 250		#4	2 1/2
250N	1	3 # 250	#250	#4	2 1/2
300	1	3 # 350		#3	3
300N	1	3 # 350	#350	#3	3
350	1	3 # 500		#3	4
350N	1	3 # 500	#500	#3	4
400	1	3 # 600		#3	4
400N	1	3 # 600	#600	#3	4
500	2	3 # 250		#2	2 1/2
500N	2	3 # 250	#250	#2	2 1/2
600	2	3 # 350		#1	3
600N	2	3 # 350	#350	#1	3
800	2	3 # 600		#1/0	4
800N	2	3 # 600	#600	#1/0	4
1000	3	3 # 400		#2/0	3
1000N	3	3 # 400	#400	#2/0	3
1200	3	3 # 600		#3/0	4
1200N	3	3 # 600	#600	#3/0	4
1600	4	3 # 600		#4/0	4
1600N	4	3 # 600	#600	#4/0	4
2000	5	3 # 600		#250	4
2000N	5	3 # 600	#600	#250	4
2500	6	3 # 600		#350	4
2500N	6	3 # 600	#600	#350	4
3000	7	3 # 600		#400	4
3000N	7	3 # 600	#600	#400	4
3300	8	3 # 600		#400	4
3300N	8	3 # 600	#600	#400	4
3700	9	3 # 600		#400	4
3700N	9	3 # 600	#600	#400	4

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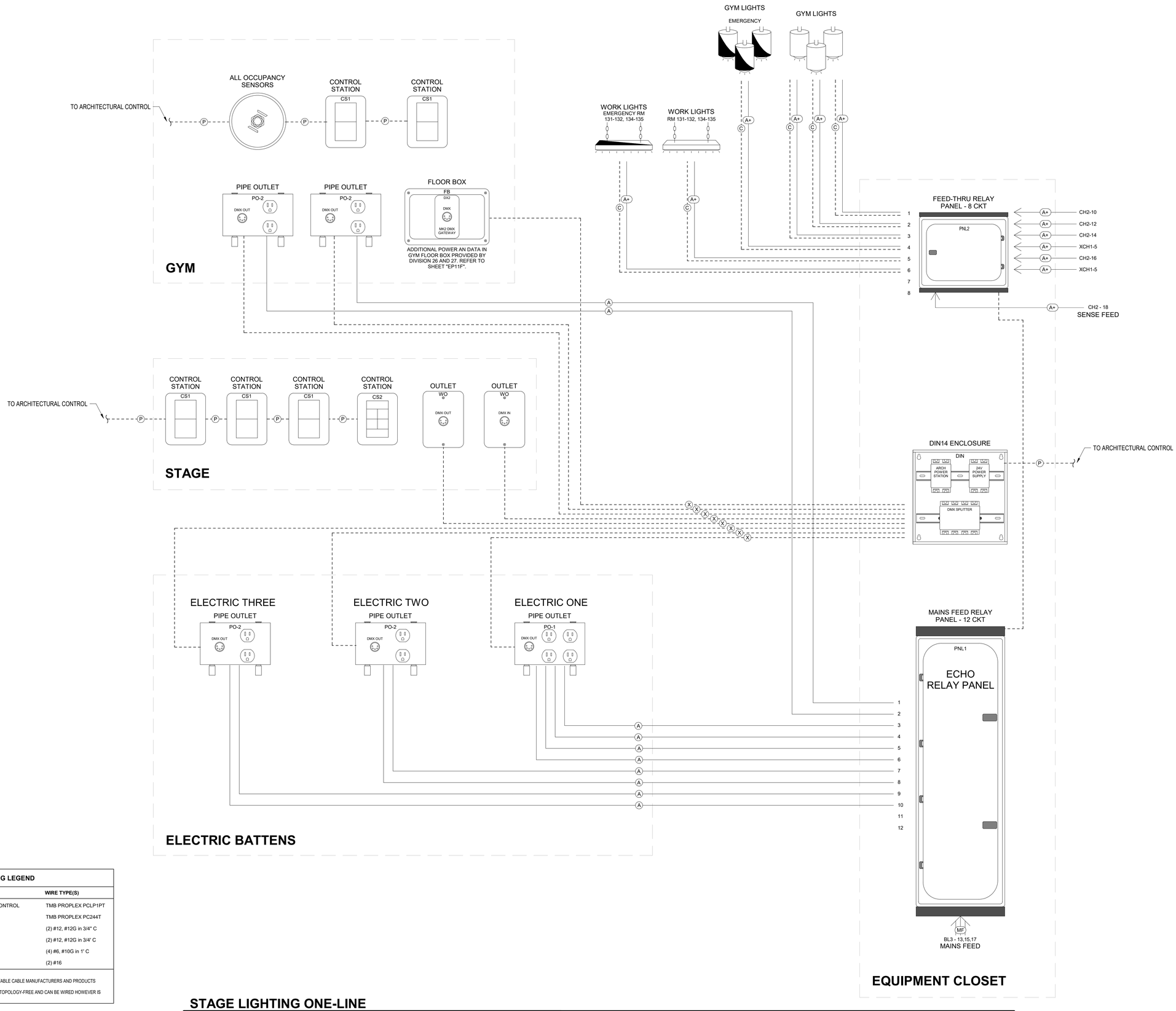

WIRING LEGEND		
SYMBOL	**SIGNAL**	**WIRE TYPE(S)**
(P)	ARCHITECTURAL CONTROL	TMB PROPLEX PCLP1PT
(X)	DMX	TMB PROPLEX PC244T
(A)	120V 20A	(2) #12, #12G in 3/4" C
(A+)	277V 20A	(2) #12, #12G in 3/4" C
(MF)	120/208V 60A	(4) #6, #10G in 1" C
(C)	0-10V CONTROL	(2) #16

NOTES:
SEE THEATRICAL SPECS FOR ALL ACCEPTABLE CABLE MANUFACTURERS AND PRODUCTS

ARCHITECTURAL CONTROL (P) WIRING IS TOPOLOGY-FREE AND CAN BE WIRED HOWEVER IS DETERMINED MOAT PRACTICAL

STAGE LIGHTING ONE-LINE

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

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Construction Documents

BRIAN W. BUTLER REGISTERED No. PE19800 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: ANE

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE

STAGE LIGHTING ONE-LINE DIAGRAM

E-702

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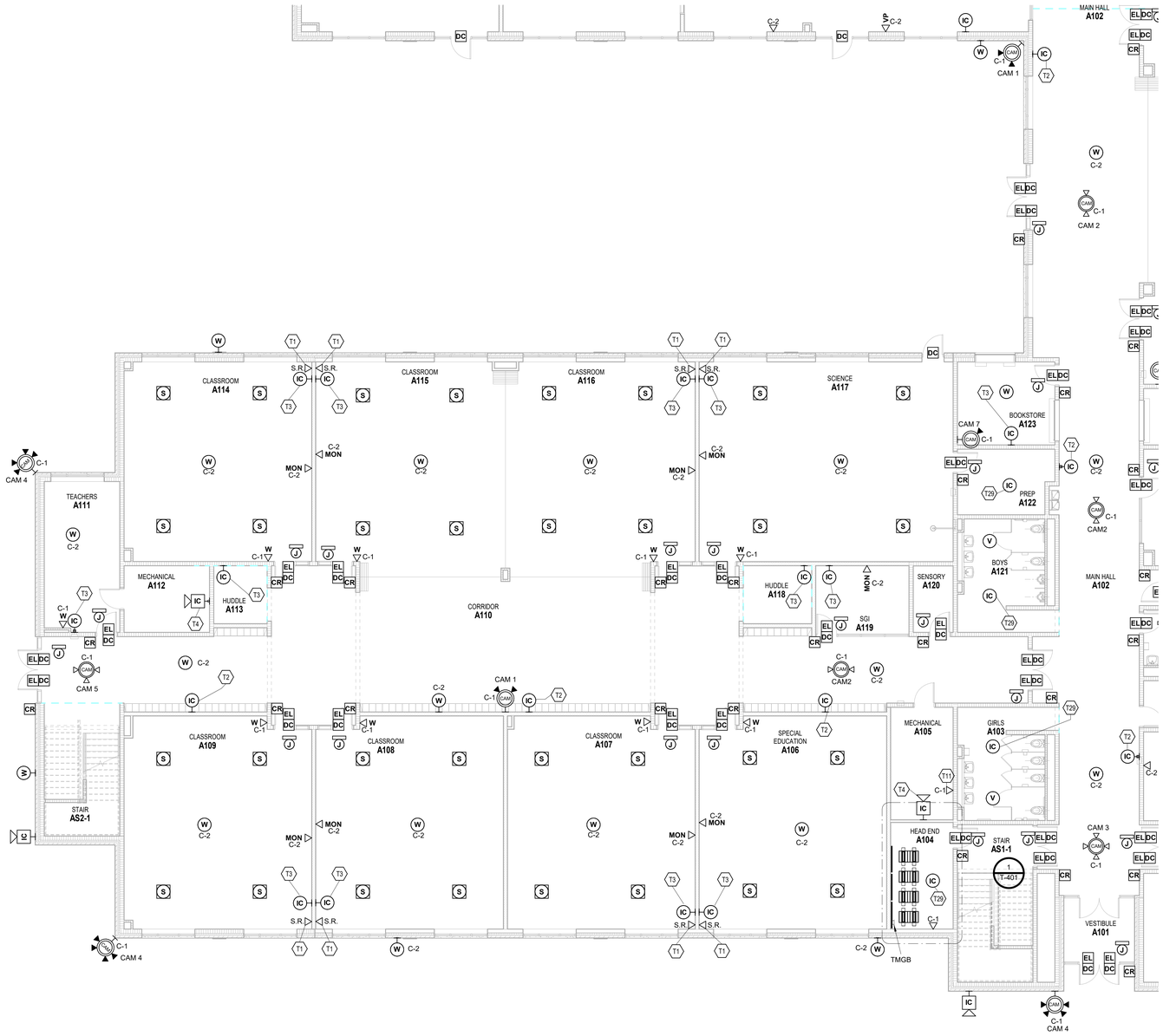

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT A

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
A101	-	VESTIBULE	107 SF
A102	B100	MAIN HALL	1968 SF
A103	B109	GIRLS	217 SF
A104	B111	HEAD END	151 SF
A105	C102	MECHANICAL	159 SF
A106	C104	SPECIAL EDUCATION	891 SF
A107	C108	CLASSROOM	889 SF
A108	C110	CLASSROOM	892 SF
A109	C112	CLASSROOM	885 SF
A110	C100	CORRIDOR	2370 SF
A111	C114	TEACHERS	255 SF
A112	C114A	MECHANICAL	129 SF
A113	C113	HUDDLE	70 SF
A114	C111	CLASSROOM	843 SF
A115	C109	CLASSROOM	889 SF
A116	C107	CLASSROOM	889 SF
A117	C106	SCIENCE	1148 SF
A118	C105	HUDDLE	90 SF
A119	C103	SGI	147 SF
A120	C101	SENSORY	60 SF
A121	B107	BOYS	217 SF
A122	C106A	PREP	137 SF
A123	B102	BOOKSTORE	183 SF
AS1-1	STAIR B	STAIR	262 SF
AS2-1	STAIR C	STAIR	220 SF
B101	A100	MAIN HALL	2209 SF
B103	D101	MEDIA CENTER	1827 SF
B106	D106	MEDIA CLASSROOM	1071 SF
B107	D107	ART	1190 SF
D101	B110B	STORAGE	196 SF
D109	B110A	CUSTODIAL STAFF	112 SF
D110	B108	CUSTODIAN	59 SF
D111	B106	RESTROOM	70 SF
D123	B103	HYDROPONICS	301 SF
D124	B101	CAFETERIA	4442 SF
D125	B101A	ALA CART	148 SF

TECHNOLOGY PLAN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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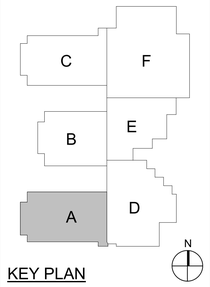

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025

FIRST FLOOR TECHNOLOGY PLAN - UNIT A

T-11A

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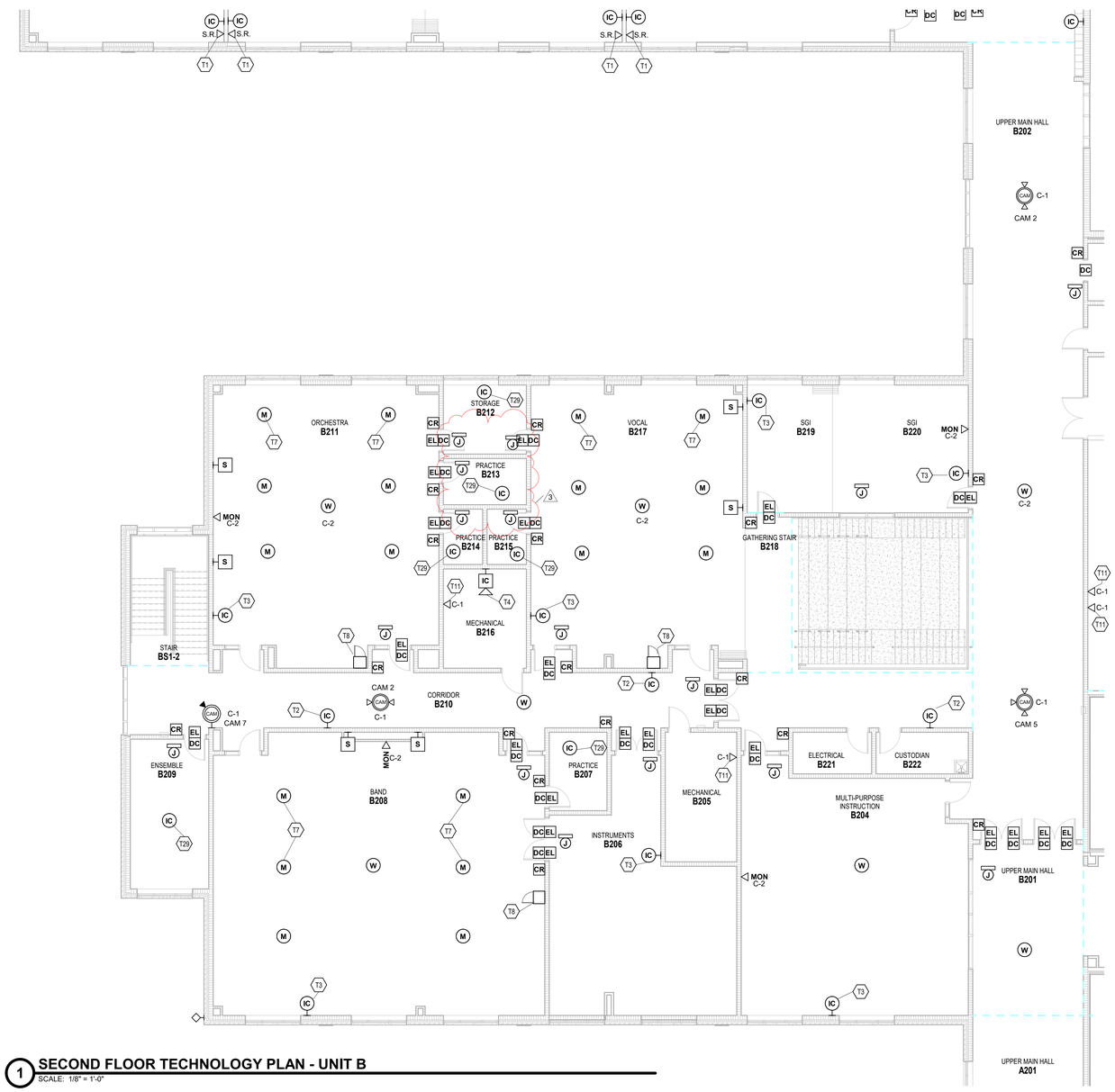

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT B

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
SECOND FLOOR			
A201	B200	UPPER MAIN HALL	1885 SF
B201	B200	UPPER MAIN HALL	396 SF
B202	A200	UPPER MAIN HALL	1871 SF
B203	A200	CORRIDOR	318 SF
B204	D201	MULTI-PURPOSE INSTRUCTION	1131 SF
B205	D205	MECHANICAL	195 SF
B206	D206	INSTRUMENTS	765 SF
B207	D207A	PRACTICE	95 SF
B208	D207	BAND	1902 SF
B209	D209	ENSEMBLE	247 SF
B210	D200	CORRIDOR	843 SF
B211	D208	ORCHESTRA	1271 SF
B212	D208C	STORAGE	120 SF
B213	D208B	PRACTICE	81 SF
B214	D208A	PRACTICE	46 SF
B215	D204A	PRACTICE	46 SF
B216	D200C	MECHANICAL	173 SF
B217	D204	VOCAL	1202 SF
B218	STAIR A	GATHERING STAIR	146 SF
B219	D203	SGI	223 SF
B220	D202	SGI	358 SF
B221	D200B	ELECTRICAL	69 SF
B222	D200A	CUSTODIAN	81 SF
BS1-2	STAIR D	STAIR	216 SF
C201	A200	UPPER MAIN HALL	1343 SF
C209	E206	SCIENCE	1147 SF
C210	E207	CLASSROOM	889 SF
C211	E209	CLASSROOM	889 SF
C212	E211	CLASSROOM	843 SF
E201	A201	MECHANICAL	1995 SF
E202	A202	ELEVATOR EQUIPMENT	54 SF

TECHNOLOGY PLAN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
T1	SOUND REINFORCEMENT SYSTEM. WALLPLATE AT 48" SEE DETAIL 3/T-502.
T2	ALGO 8420 IP DUAL SIDED CLOCK SPEAKER IN COMMON HALLWAYS
T3	ALGO 8410 IP DISPLAY SPEAKER IN CLASSROOMS AND OFFICES
T4	ALGO 8196 IP HORN SPEAKER
T7	CONDENSER HANGING MICROPHONE(TYPICAL)
T8	SEE DETAIL ON 2/T-504 FOR MUSIC/VOCAL ROOM SOUND SYSTEM
T11	PROVIDE DATA CABLE(S) FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
T29	ALGO 8198 IP CEILING SPEAKER WITH ALGO 8138 IP COLOR VISUAL ALERTER (TYPICAL)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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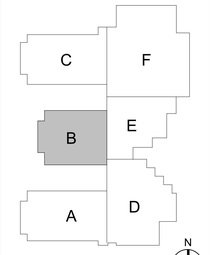

KEY PLAN

Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	11/11/2025
2	ADDENDUM NO.3	11/18/2025
3	ADDENDUM NO. 4	11/24/2025

SECOND FLOOR TECHNOLOGY PLAN - UNIT B

T-12B

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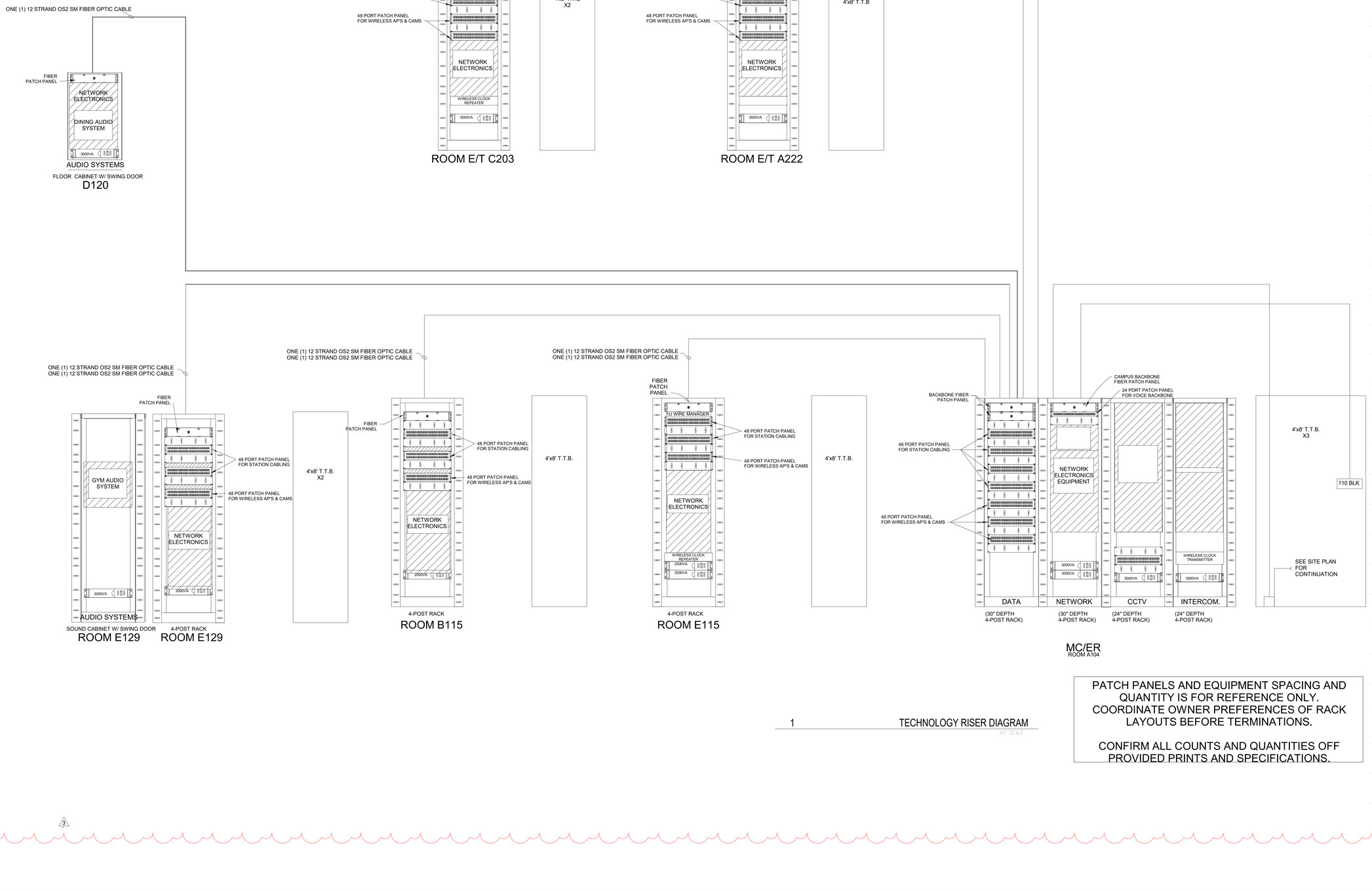

1 TECHNOLOGY RISER DIAGRAM

NO SCALE

PATCH PANELS AND EQUIPMENT SPACING AND QUANTITY IS FOR REFERENCE ONLY. COORDINATE OWNER PREFERENCES OF RACK LAYOUTS BEFORE TERMINATIONS.

CONFIRM ALL COUNTS AND QUANTITIES OFF PROVIDED PRINTS AND SPECIFICATIONS.

△3

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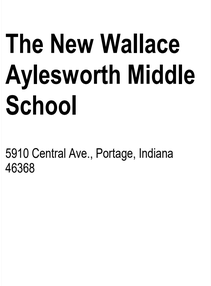

KEY PLAN

Construction Documents

BRIAN W. BUTLER REGISTERED No. PE10803035 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: MKS

DRAWN BY: JJR

PROJECT NUMBER: 223047.01

PROJECT ISSUE DATE: October 28, 2025

REV. NO.	DESCRIPTION	DATE
3	ADDENDUM NO. 4	11/24/2025

TECHNOLOGY RISER DIAGRAM

T-701