

# OWASSO PUBLIC SCHOOLS

## Owasso 8<sup>th</sup> Grade Addition

**Owner:**  
Independent School District No. 11  
Tulsa County  
Owasso, Oklahoma

**Architect:** The Stacy Group  
**Project Number:** 2407

03.17.2026



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**addendum number:** TWO (2)  
**date:** 03.17.2026  
**project:** Owasso Public Schools  
Owasso 8<sup>th</sup> Grade Addition  
Owasso, OK  
**project number:** 2407  
**architect:** The Stacy Group  
8091 N Owasso Expressway  
Owasso, OK 74055  
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To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated **November 25, 2025**, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

**Clarifications:**

**Pre-Qualifications:**

A2-1 **Section 074213 Metal Wall Panels:** Manufacturer listed below is approved in name only and must still meet all requirements as listed in the specification in order to bid and supply products for this project specifications:  
ForMe Design

**Specifications:**

- A2-2 **Section 083330 Serving Coiling Security Grilles:** Issue section in its entirety.  
A2-3 **Section 083473 Sound Control Door Assemblies:** Issue section in its entirety.  
A2-4 **Section 087100 Door Hardware:** Issue section in its entirety.

**Drawings:**

**General: None**

**Civil: None**

**Architectural:**

- A2-5 **D100 Overall Demo Plan:** Replace sheet in its entirety.  
A2-6 **D101 Demo Plan Area 2:** Replace sheet in its entirety.  
A2-7 **D102 Demo Plan Area 3:** Replace sheet in its entirety.  
A2-8 **A200 Enlarged Plans:** Detail 32, add CS2. Replace sheet in its entirety.  
A2-9 **Sheet A310 Ceiling Details:** Revised HPL to 5/8" GWB. Replace sheet in its entirety.

A2-10 A400 Exterior Elevations: Update detail 11. Add elevations for dumpster enclosure. Replace sheet in its entirety.

A2-11 A700 Door Schedule: Revise Base Bid Area 1 schedule. Replace sheet in its entirety.

**Interiors:**

A2-12 Sheet AI113 Floor Pattern Plan Area 3 Base Bid: Revised floor finish to LVT in designated rooms. Replace sheet in its entirety.

**Structural:**

A2-13 Sheet S007 – Precast Panel Elevations:  
11/S007 – Revised steel mullion location graphically at new door location  
21/S007 – Added in-wall precast beam for rolling door attachment

A2-14 Sheet S101 – Foundation Plan Area 1:  
- Updated steel mullion locations at precast  
- Clarified where general dumpster detail applies

A2-15 Sheet S102 – Foundation Plan Area 2: Updated CMU at G/1.5 to match Detail 31/A600

A2-16 Sheet S120 – Overall Roof Framing Plan: Removed note at new RTU at existing to coordinate with S123.

A2-17 Sheet S122 – Roof Framing Plan Area 2: Added dimension string for column at G/1

A2-18 Sheet S123 – Roof Framing Plan Areas 2 and 3: Revised new RTU locations for two existing RTUs to remain.

**Plumbing:**

A2-19 Sheet P200 Plumbing Plan – Enlarged Kitchen: Delete domestic water and floor sink from kitchen scope as shown. Reissue sheet in its entirety.

**Mechanical: None**

**Electrical:**

A2-20 Sheet E002 Electrical One-Line Diagram & Schedules: Add Disconnect DCH1 to One-Line Diagram.

A2-21 Sheet E004 Electrical Schedules: Add FB to Special Receptacle Schedule.

A2-22 Sheet E201 Power Plan – Area 1: Add power for Serving Lines and Points of Sale. Add Keynotes 4, 5, and 6.

A2-23 Sheet E202 Power Plan – Area 2: Add power to MDF. Clarify power to projectors. Add Keynotes 3 and 4.

A2-24 Sheet E203 Power Plan – Area 3: Clarify power to projectors. Add Keynote 4.

A2-25 Sheet E301 Systems Plan – Area 1: Add Systems Plan Notes C, D, and E. Add box note for Horizontal Cabling Standard Service Loop. Add Security Camera Schedule. Add Card Reader Schedule. Add Security Camera type tag to cameras. Add card readers at exterior doors. Add speakers to Classrooms. Add power to Serving Lines and Points of Sale. Add speakers to Classrooms. Add Keynote 3. Add ICC500 Emergency Ventilation Activation Switch. Add magnetic door hold open device. Add Keynote 4 for each Classroom.

A2-26 Sheet E302 Systems Plan – Area 2: Add card readers to exterior doors. Add Security Camera type tag to cameras. Add System Plan Notes C, D, E, and F. Add box note for speaker cable from speaker to Teachers Desk. Add Keynote 4 for each Classroom.

A2-27 Sheet E303 Systems Plan – Area 3: Add speakers to Classrooms. Add door switch to exterior door in Art Classrooms 311 and 312. Add Keynote 4 for each Classroom.

A2-28 Sheet E501 Enlarged Electrical Kitchen Plan: Show power to Serving Lines and Points of Sale. Remove Ice Maker. Show Floor Box for Pizza Oven.

**END OF ADDENDUM**

## SERVING COILING SECURITY GRILLES

## SECTION 083330

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PART 1 GENERAL

## 1.01 GENERAL REQUIREMENTS

- A. Provide all materials, labor, equipment and services necessary to furnish, deliver and install all work under this section as shown on the contract documents, specified herein, and as specified by the job conditions.

## 1.02 DESCRIPTION

- A. Related work specified elsewhere:
  - 1. Metal Fabrication. Division 05
  - 2. Rough Carpentry. Division 06
  - 3. Access Panels & Doors: Division 08
  - 4. Painting: Division 09

## 1.03 SUBMITTALS

- A. Procedures: Furnish submittals in accordance with the general requirements specified.
- B. Shop Drawing: Furnish shop drawings for architect's approval. Include elevations, sections, and details indicating dimensions, materials, finishes, conditions for anchorage and support of each coiling security grille.
- C. Product Literature: Submit manufacturer's technical literature describing the product to be used under this section.
- D. Maintenance and Operating Manuals: Furnish complete manuals describing the materials, devices and procedures to be followed in operating and maintaining all coiling security grilles under this section. Include manufacturer's brochures and parts lists describing the actual materials used in the product.

## 1.04 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances and regulations of federal, state and municipal authorities having jurisdiction.
- B. Manufacturer Requirements: Coiling security grille manufacturer shall have been in the business of and have experience in manufacturing the type of product covered under this specification section as well as giving credible service for a minimum of five (5) years. Provide list of at least ten (10) completed projects which include the products covered under this section.

## 1.05 DELIVERY, STORAGE AND HANDLING

- A. General: Deliver and store materials in manufacturer's original packaging, labeled to show name, brand and type. Store materials in a protected dry location off the ground in accordance with manufacturer's instructions.

## 1.06 WARRANTY

- A. Coiling Security Grille Warranty: Provide Two (2) Year Warranty signed by the manufacturer and installer agreeing to repair or replace work which has failed as a result of defects in materials or workmanship. Upon notification within the warranty period, such defects shall be repaired at no cost to the owner.

## PART 2 PRODUCTS

### 2.01 COILING SECURITY GRILLES

- A. Manufacturer:
  - 1. McKeon Door Company.
  - 2. Cookson
  - 3. Cornell
  - 4. Or preapproved equal

### 2.02 MATERIALS

- A. Curtain: Shall be the SL9 pattern consisting of 5/16" diameter solid aluminum rods and vertical links fabricated of 1/16" thick aluminum strips which are set in a straight lattice pattern. The vertical spacing is 9" while the horizontal spacing is set at 2".
- B. Bottom Bar: Shall be fabricated of an extruded tubular section of not less than 1½" x 3" aluminum formed to fit curtain and finished to match grille curtain.
- C. Guides: Each guide assembly shall be fabricated of a minimum 3" x 3" steel support angle or steel support tube, with a 2½" minimum extruded aluminum guide finished to match grille curtain. Guides shall be furnished with integral nylon wear strips to prevent metal to metal contact.
- D. Mounting Brackets: Fabricated of hot rolled 3/16" steel plate minimum, brackets shall be provided to house ends of the counterbalance barrel assembly.
- E. Hood: Shall be provided to entirely enclose curtain and counterbalance barrel assembly. Hood shall be fabricated 22 gauge galvanized steel and designed to match brackets. Top and bottom shall be bent and reinforced for stiffness.
- F. Counterbalance Assembly: Coiling security grille shall be counterbalanced by means of adjustable steel helical torsion springs attached to shaft enclosed in pipe with required mounting blocks or rings for attachment of curtain. Grease sealed bearings or self-lubricating graphite bearings shall be attached to the spring barrel which shall be fabricated of hot formed structural quality carbon steel seamless pipe.
- G. Hand Chain Operator: Coiling security grille shall be provided with a gear reduction mechanism designed and built by the door manufacturer. The gear reduction mechanism shall not require more than 35 pounds of operational force to move the coiling security grille in either direction.
- H. Finish: After completion of fabrication, clean all metal surfaces to remove dirt and chemically treat to provide for paint adhesion. All steel components shall receive a coat of prime paint finish and all aluminum surfaces shall be of a clear anodized finish.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine surfaces and field conditions to which this work is to be performed and notify architect if conditions of surfaces exist which are detrimental to proper installation and timely completion of work.
- B. Verify all dimensions taken at job site affecting the work. Notify the architect in any instance where dimensions vary.
- C. Coordinate and schedule work under this section with work of other sections so as not to delay job progress.

### 3.02 INSTALLATION

- A. Perform installation using only factory approved and certified representatives of the coiling security grille manufacturer.
- B. Install coiling security grille assemblies at locations shown in perfect alignment and elevation, plumb, level, straight and true.
- C. Adjust coiling security grille installation to provide uniform clearances and smooth non-binding operation.

### 3.03 PROTECTION AND CLEANING

- A. Protect installed work using adequate and suitable means during and after installation until accepted by owner.
- B. Remove, repair or replace materials which have been damaged in any way.
- C. Clean surfaces of grime and dirt using acceptable and recommended means and methods.

END OF SECTION

## SOUND CONTROL DOOR ASSEMBLIES

## SECTION 083473

## 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 sound-control door assemblies consisting of swinging wood doors, steel frames, sound-control seals, and related accessories to achieve STC ratings indicated.
  - 1. Where scheduled, provide sound-control door assemblies listed and labeled to meet fire ratings indicated.
- B. Related Sections include the following:
  - 1. Division 04 Section "Unit Masonry" for building anchors into and grouting sound-control door frames in masonry construction.
  - 2. Division 08 Section "Hollow Metal Doors and Frames" for non-sound-control, hollow-metal doors and frames.
  - 3. Division 08 Section "Flush Wood Doors" for non-sound-control wood doors.
  - 4. Division 08 Section "Door Hardware" for hardware to the extent not specified in this Section, including locksets and cylinders.
  - 5. Division 08 Section "Glazing" for field-installed glazed lites in sound-control doors.
  - 6. Division 09 painting Sections for field painting sound-control door assemblies.

## 1.3 DEFINITIONS

- A. Minimum Thickness: Minimum thickness of base metal without coatings.

## 1.4 PERFORMANCE REQUIREMENTS

- A. Sound Rating: Provide sound-control door assemblies that have been fabricated and tested as sound-retardant units, are identical to assemblies tested according to ASTM E 90 by an independent testing agency, and have the following minimum certified STC rating according to ASTM E 413:
  - 1. STC Rating: 52

## 1.5 SUBMITTALS

- A. Product Data: Include sound ratings, construction and hardware preparation details, material and gasketing descriptions, core descriptions, label compliance, dimensions of individual components and profiles, and finishes for sound-control door assemblies.

- B. Shop Drawings: In addition to requirements below, provide a schedule of doors and frames using same reference numbers for details and openings as those on Drawings.
  - 1. Elevations of each door design.
  - 2. Details of sound-control seals, door bottoms, and thresholds.
  - 3. Details of doors including vertical and horizontal edge details.
  - 4. Frame details for each frame type including dimensioned profiles.
  - 5. Details and locations of reinforcement and preparations for hardware.
  - 6. Details of each different wall opening condition.
  - 7. Details of anchorages, accessories, joints, and connections.
  - 8. Details of glazing frames and stops showing glazing.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of not less than 3 by 5 inches.
- E. Product Certificates: For each type of sound-control door assembly, signed by product manufacturer.
- F. Field quality-control test reports.
- G. Product Test Reports: Based on evaluation of comprehensive sound-rating tests performed by a qualified testing agency, for each type of sound-control door assembly.
- H. Maintenance Data: For sound-control door assemblies to include in maintenance manuals.
- I. Warranty: Special warranty specified in this Section.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Acoustical Testing Agency Qualifications: An independent agency accredited as an acoustical laboratory according to the National Voluntary Laboratory Accreditation Program of NIST.
- C. Source Limitations: Obtain sound-control door assemblies, including doors, frames, sound-control seals, hinges (when integral for sound control), thresholds, and other items essential for sound control, through one source from a single manufacturer.
- D. Safety Glass: Category I or II materials complying with testing requirements in 16 CFR 1201.
- E. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver doors and frames palletized, wrapped, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.
  - 1. Provide additional protection to prevent damage to finish of factory-finished wood doors.

- B. Deliver frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store doors and frames under cover at Project site. Place units in a vertical position with heads up, spaced by blocking, on minimum 4-inch-high, wood blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber.
  - 1. If wrappers on doors become wet, remove cartons immediately. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

## 1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install sound-control wood doors until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

## 1.9 COORDINATION

- A. Coordinate installation of anchorages for sound-control door assemblies. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in [concrete] [or] [masonry]. Deliver such items to Project site in time for installation.

## 1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sound-control door assemblies that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Failure to meet sound rating requirements.
    - b. Faulty operation of sound seals.
    - c. Deterioration of metals, metal finishes, and other materials beyond normal use or weathering.
    - d. Wood doors that are warped (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section, or show telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.
  - 2. Warranty Period for Wood Doors: Two years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Sound-Control Door Assemblies with Wood Doors:

- a. Ambico Limited.
- b. Krieger Steel Products Co.
- c. Overly Door Company.
- d. Security Acoustics; Div. of Security Metal Products Corp.
- e. Or equal.

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B, with G60 (Z180) zinc (galvanized) or A40 (ZF120) zinc-iron-alloy (galvannealed) coating designation.
- D. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A 153/A 153M, Class B.
- E. Inserts, Bolts, and Fasteners: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M.
- F. Powder-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching sound-control door frames of type indicated.
- G. Grout: Comply with Division 04 Section "Unit Masonry."
- H. Grout: Comply with ASTM C 476, with a slump of 4 inches (102 mm) for sound-control door frames built into concrete or masonry, as measured according to ASTM C 143/C 143M.
- I. Mineral Fiber Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool with 6 to 12 lb/cu. ft. (96 to 192 kg/cu. m) density; with maximum flame-spread and smoke-developed indexes of 25 and 50 respectively; passing ASTM E 136 for combustion characteristics.
- J. Glazing: As required by sound-control door assembly manufacturer to comply with sound-control requirements.

2.3 WOOD DOORS

- A. Provide flush-design wood doors, not less than 1-3/4 inches thick; with manufacturer's standard sound-retardant core as required to provide STC rating indicated. Fabricate wood doors with tolerances according to WDMA 1.S.1-A.
- B. Comply with Division 08 Section "Flush Wood Doors" for grade, faces, veneer matching, fabrication, finishing, and other requirements, unless otherwise indicated.
  1. Stiles: Same species as faces.

## 2.4 STEEL FRAMES

- A. General: Fabricate sound-control door frames of full-welded unit construction, with corners mitered, reinforced, and continuously welded full depth and width of frame. Knocked-down frames are not acceptable.
  - 1. Interior Frames: Formed from minimum 0.067-inch- thick, cold-rolled steel sheet, unless otherwise indicated.
- B. Hardware Reinforcement: Fabricate reinforcement plates from same material as door frame to comply with the following minimum sizes:
  - 1. Hinges: Minimum 0.167 inch thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not less than 6 spot welds.
  - 2. Strikes, and Closers: Minimum 0.093 inch thick.
  - 3. Surface-Mounted Hardware: Minimum 0.093 inch thick.
- C. Head Reinforcement: Minimum 0.093-inch- thick, steel channel or angle stiffener.
- D. Jamb Anchors:
  - 1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed of same material as frame, not less than 0.053 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.156 inch wide.
  - 2. Stud Wall Type: Designed to engage metal stud, welded to back of frames; formed of same material as frame, not less than 0.042 inch thick.
  - 3. Postinstalled Expansion Type for In-Place Concrete or Masonry: Minimum 3/8-inch-diameter bolts with expansion shields or inserts. Provide pipe spacer from frame to wall with throat reinforcement plate, welded to frame at each anchor location.
- E. Floor Anchors: Formed of same material as door frame, not less than 0.067 inch thick, and as follows:
  - 1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.
  - 2. Separate Topping Concrete Slabs: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface.
- F. Ceiling Struts: Minimum 3/8-inch-thick by 2-inch- wide steel.
- G. Plaster Guards: Same material as frame, not less than 0.026 inch thick.
- H. Miscellaneous Components: Fabricated from hot- or cold-rolled steel sheet.

## 2.5 STOPS AND MOLDINGS

- A. Fixed Frame Moldings: Formed integral with sound-control frames, unless otherwise indicated.
- B. Stops for Glazed Lites: Minimum 0.032 inch thick, formed of same material as door.

## 2.6 DOOR HARDWARE

- A. General: Provide manufacturer's standard sound-control system, including head and jamb seals, door bottoms, cam-lift hinges, and thresholds, as required by testing to achieve STC rating indicated.
- B. Compression Seals: One-piece units; consisting of closed-cell sponge neoprene seal held in place by metal retainer; with retainer cover of same material as door frame; attached to door frame with concealed screws.
- C. Automatic Door Bottoms: Neoprene or silicone gasket, held in place by metal housing, that automatically drops to form seal when door is closed; mounted to bottom edge of door with screws.
  - 1. Mounting: Mortised or semimortised into bottom of door or surface mounted on face of door as required by testing to achieve STC rating indicated.
- D. Cam-Lift Hinges: Full-mortise template type that raises door 1/2 inch when door is fully open; with hardened pin; fabricated from stainless steel.
- E. Thresholds: Flat, smooth, unfluted type as recommended by manufacturer; fabricated from aluminum.
  - 1. Finish: Color anodic finish.
  - 2. Color: Black

## 2.7 FABRICATION

- A. General: Fabricate sound-control door assemblies to be rigid and free of defects, warp, or buckle. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
  - 1. Glazed Lites: Factory cut openings in sound-control doors.
- B. Wood Doors: Factory fit doors to suit frame-opening sizes indicated, with uniform clearances and bevels according to referenced quality standard, unless otherwise indicated. Comply with final door hardware schedules and hardware templates.
  - 1. Comply with clearance requirements in NFPA 80 for fire-rated doors.
- C. Steel Frames: Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Weld exposed joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
  - 1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.
  - 2. Plaster Guards: Weld guards to frame at back of hardware cutouts and glazing-stop screw and sound-control seal preparations to close off interior of openings and prevent mortar or other materials from obstructing hardware operation or installation.
  - 3. Where installed in masonry, leave vertical mullions in frames open at top for grouting.
  - 4. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
  - 5. Jamb Anchors: Provide number and spacing of anchors as follows:

- a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
    - 1) Two anchors per jamb up to 60 inches in height.
    - 2) Three anchors per jamb from 60 up to 90 inches in height.
    - 3) Four anchors per jamb from 90 up to 96 inches in height.
    - 4) Four anchors per jamb plus one additional anchor per jamb for each 24 inches or fraction thereof more than 96 inches in height.
  - b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
    - 1) Three anchors per jamb up to 60 inches in height.
    - 2) Four anchors per jamb from 60 up to 90 inches in height.
    - 3) Five anchors per jamb from 90 up to 96 inches in height.
    - 4) Five anchors per jamb plus one additional anchor per jamb for each 24 inches or fraction thereof more than 96 inches in height.
    - 5) Two anchors per head for frames more than 42 inches wide and mounted in metal stud partitions.
  - c. Postinstalled Expansion Type: Locate anchors not more than 6 inches from top and bottom of frame. Space anchors not more than 26 inches o.c.
6. Head Reinforcement: For frames more than 48 inches wide, provide continuous head reinforcement for full width of opening, welded to back of frame at head.
- D. Hardware Preparation:
- 1. Wood Doors: Locate door hardware as indicated, or if not indicated, according to DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
    - a. Coordinate measurements of hardware mortises in steel frames to verify dimensions and alignment before factory machining.
- E. Glazing: Factory install glazed lites according to requirements of tested assembly to achieve STC rating indicated.
- F. Stops and Moldings: Provide stops and moldings around glazed lite where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
- 1. Single Glazed Lites: Provide fixed stops and moldings welded on secure side of door.
  - 2. Multiple Glazed Lites: Provide fixed and removable stops and moldings such that each glazed lite is capable of being removed independently.
  - 3. Coordinate rabbet width between fixed and removable stops with type of glass and type of installation indicated.

## 2.8 STEEL FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  - 1. Finish sound-control steel door assemblies after assembly.

- B. Metallic-Coated Steel Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas, and apply galvanizing repair paint specified below to comply with ASTM A 780.
  - 1. Galvanizing Repair Paint: High-zinc-dust-content paint for regalanizing welds in steel, complying with SSPC-Paint 20.
- C. Steel Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning"; remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel; comply with SSPC-SP 3, "Power Tool Cleaning," or SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
- D. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils (0.018 mm).
  - 1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible with substrate and field-applied finish paint system indicated; and providing a sound foundation for field-applied topcoats despite prolonged exposure.

## 2.9 WOOD FINISHES

- A. Finish sound-control wood doors after assembly.
- B. Factory finish sound-control wood doors to match doors specified in Division 08 Section Flush Wood Doors.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of sound-control door assemblies.
  - 1. Examine roughing-in for embedded and built-in anchors to verify actual locations of sound-control door frame connections before frame installation.
  - 2. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.
  - 3. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Remove welded-in shipping spreaders installed at factory.
- B. Prior to installation and with installation spreaders in place, adjust and securely brace sound-control door frames for squareness, alignment, twist, and plumb to the following tolerances:

1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
  2. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
  3. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
  4. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.
- C. Drill and tap doors and frames to receive non-templated mortised and surface-mounted door hardware.

### 3.3 INSTALLATION

- A. General: Install sound-control door assemblies plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Frames: Install sound-control door frames in sizes and profiles indicated.
1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
    - a. At fire-rated openings, install frames according to NFPA 80.
    - b. Where frames are fabricated in sections due to shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, fill, dress, make splice smooth, flush, and invisible on exposed faces.
    - c. Install sound-control frames with removable glazing stops located on secure side of opening.
    - d. Remove temporary braces only after frames or bucks have been properly set and secured.
    - e. Check plumb, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
    - f. Apply bituminous coating to backs of frames that are filled with mortar, grout, and plaster containing antifreezing agents.
    - g. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor and secure with postinstalled expansion anchors.
      - 1) Floor anchors may be set with powder-actuated fasteners instead of postinstalled expansion anchors, if so indicated and approved on Shop Drawings.
    - h. Metal-Stud Partitions: Solidly pack mineral-fiber insulation behind frames.
    - i. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar as specified in Division 04 Section "Unit Masonry."
    - j. Concrete Walls: Solidly fill space between frames and concrete with grout. Install grout in lifts and take other precautions, including bracing frames, to ensure that frames are not deformed or damaged by grout forces.
    - k. In-place Concrete or Masonry Construction: Secure frames in place with postinstalled expansion anchors. Countersink anchors, and fill and make smooth, flush, and invisible on exposed faces.

2. Ceiling Struts: Extend struts vertically from top of frame at each jamb to supporting construction above, unless frame is anchored to masonry or to other structural support at each jamb. Bend top of struts to provide flush contact for securing to supporting construction above. Provide adjustable wedged or bolted anchorage to frame jamb members.
  3. Installation Tolerances: Adjust sound-control door frames for squareness, alignment, twist, and plumb to the following tolerances:
    - a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
    - b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
    - c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
    - d. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.
- C. Doors: Fit sound-control doors accurately in frames, within clearances indicated below. Shim as necessary.
1. Non-Fire-Rated Doors: Fit non-fire-rated doors accurately in frames with the following clearances:
    - a. Jambs: 1/8 inch.
    - b. Head with Butt Hinges: 1/8 inch.
    - c. Head with Cam-Lift Hinges: As required by manufacturer, but not more than 3/8 inch.
    - d. Sill: Manufacturer's standard.
    - e. Between Edges of Pairs of Doors: 1/8 inch.
- D. Sound-Control Seals: Where seals have been prefit and preinstalled in the factory and subsequently removed for shipping, reinstall seals and adjust according to manufacturer's written instructions.
- E. Cam-Lift Hinges: Install hinges according to manufacturer's written instructions.
- F. Thresholds: Set thresholds in full bed of sealant complying with requirements in Division 07 Section "Joint Sealants."
- G. Glazing: Comply with installation requirements in Division 08 Section "Glazing" and sound-control door assembly manufacturer's written instructions.
1. Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c., and not more than 2 inches o.c. from each corner.
- 3.4 FIELD QUALITY CONTROL
- A. Testing Agency: Engage a qualified independent acoustical testing and inspecting agency to perform field tests and inspections and prepare test reports.

- B. Testing Services: Acoustical testing and inspecting agency shall select one sound-control door at random from sound-control door assemblies that are completely installed and perform testing for verification that assembly complies with STC rating requirements.
  - 1. Field tests shall be conducted according to ASTM E 336, with results calculated according to ASTM E 413. Acceptable field STC values shall be within 5 dB of laboratory STC values.
  - 2. Inspection Report: Testing and inspecting agency shall submit report in writing to Architect and Contractor within 24 hours after testing.
- C. Remove and replace sound-control door assemblies where test results indicate that they do not comply with specified STC rating requirements.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

### 3.5 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and adjust operating hardware items just before final inspection. Leave work in complete and proper operating condition.
- B. Remove and replace defective work, including defective or damaged sound seals and doors and frames that are warped, bowed, or otherwise unacceptable.
  - 1. Adjust gaskets, gasket retainers, and retainer covers to provide contact required to achieve STC rating.
- C. Clean grout off sound-control door frames immediately after installation.
- D. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.
- E. Galvanized Surfaces: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.

END OF SECTION 083473

DOOR HARDWARESECTION 087100

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

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

## 1.2 SUMMARY

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

1. Swinging doors.

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

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

- C. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 06 Section "Rough Carpentry".
3. Division 06 Section "Finish Carpentry".
4. Division 08 Section "Operations and Maintenance".
5. Division 08 Section "Hollow Metal Doors and Frames".
6. Division 08 Section "Flush Wood Doors".
7. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
8. Division 26 Section "Electrical"

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

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. FEMA P-361 2015/2021 - Design and Construction Guidance for Community Safe Rooms.
3. ICC 500-2014/2020, ICC/NSSA Standard for the Design and Construction of Storm Shelters.
4. ICC/IBC - International Building Code.
5. NFPA 70 - National Electrical Code.
6. NFPA 80 - Fire Doors and Windows.
7. NFPA 101 - Life Safety Code.
8. NFPA 105 - Installation of Smoke Door Assemblies.
9. State Building Codes, Local Amendments.

- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.

2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

### 1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
  1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
  2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
  3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.
    - g. Door and frame sizes and materials.
    - h. Warranty information for each product.
  4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
  1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
    - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    - b. Complete (risers, point-to-point) access control system block wiring diagrams.
    - c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Proof of Qualification: Provide copy of manufacturer(s) Factory Trained Installer documentation indicating proof of status as a qualified installer of tornado or hurricane storm shelter assemblies.
  - E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
  - F. Informational Submittals:
    1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

#### 1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Storm Shelter Impact Protective Assembly Installer Qualifications: Installers are to be factory trained for shop and field installation prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project. A pre-installation site

inspection of the frame and floor conditions shall be conducted by the factory trained installer prior to any Storm Shelter Impact Protective assembly hardware applied to the opening.

- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
  2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- G. Storm Shelter Openings: Provide complete door systems for hurricane or tornado resistant storm shelters and other areas of refuge complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.
- H. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- I. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
  2. Plans for existing and future key system expansion.
  3. Requirements for key control storage and software.
  4. Installation of permanent keys, cylinder cores and software.
  5. Address and requirements for delivery of keys.
- J. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
  2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
  3. Review sequence of operation narratives for each unique access controlled opening.
  4. Review and finalize construction schedule and verify availability of materials.
  5. Review the required inspecting, testing, commissioning, and demonstration procedures
- K. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

## 1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

## 1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

## 1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of the hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

## 2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity:
    - a. Two Hinges: For doors with heights up to 60 inches.
    - b. Three Hinges: For doors with heights 61 to 90 inches.
    - c. Four Hinges: For doors with heights 91 to 120 inches.
    - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
  2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
    - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
    - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
  4. Hinge Options: Comply with the following:
    - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
  5. Manufacturers:
    - a. McKinney (MK) - TA/T4A Series, 5-knuckle.

## 2.3 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Manufacturers:
    - a. Pemko (PE).
- B. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Manufacturers (Storm Shelter Assemblies):

- a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).
- b. No Substitution.

## 2.4 POWER TRANSFER DEVICES

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

1. Manufacturers:

- a. Pemko (PE) - EL-CEPT Series.
- b. Securitron (SU) - EL-CEPT Series.

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

1. Provide one each of the following tools as part of the base bid contract:

- a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
- b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

- a. McKinney (MK) - QC-C Series.

## 2.5 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

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

- a. Rockwood (RO).

- B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
  - 1. Manufacturers:
    - a. Rockwood (RO).
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
  - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
  - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
  - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
  - 4. Pulls shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
  - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
  - 6. Manufacturers:
    - a. Rockwood (RO).

## 2.6 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
  - 1. Manufacturers:
    - a. Sargent Manufacturing (SA).
    - b. No Substitution – Facility Standard.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
  - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
  - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
  - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
  - 4. Tubular deadlocks and other auxiliary locks.
  - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
  - 6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.
  - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.

2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

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

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

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

## 2.7 KEY CONTROL

A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:
  - a. Lund Equipment (LU).
  - b. MMF Industries (MM).
  - c. Telkee (TK).

## 2.8 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
  - a. Sargent Manufacturing (SA) - 8200 Series.
  - b. No Substitution – Facility Standard.

## 2.9 CYLINDRICAL LOCKS AND LATCHING DEVICES

A. Tubular Locksets, Grade 1 (Extra Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed tubular locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
  - a. Sargent Manufacturing (SA) - 11 Line.
  - b. No Substitution – Facility Standard.

## 2.10 MULTI-POINT LOCKS AND LATCHING DEVICES

- A. Multi-Point Locksets, Storm Shelter: Provide ANSI/BHMA A156.37, Series 1000, Operational Grade 1 and Security Grade 1 Certified Products Directory (CPD) listed multi-point locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide locksets with functions and features as follows:
    - a. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
    - b. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
    - c. Meets Florida Building Code FL2998 and UL Certification Directory ZHEM.R21744 for latching hardware for hurricane requirements.
    - d. Approved for usage as part of a complete ICC 500 (2014/2020) and FEMA P-361 (2015/2021) door, frame, and hardware assemblies for storm shelter components.
    - e. Lever torque to retract all bolts less than 28 in.lb.
    - f. Cycle tested to 1,000,000 cycles.
    - g. Seven-year limited warranty for mechanical functions.
  2. Manufacturers:
    - a. Sargent Manufacturing (SA) - FM7300 Series.
    - b. No Substitution – Facility Standard.

## 2.11 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
  2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
  3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
  4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
  2. Strikes for Bored Locks and Latches: BHMA A156.2.
  3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
  4. Dustproof Strikes: BHMA A156.16.

## 2.12 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. Exit devices shall have a five-year warranty.

2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
  3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
  4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
  5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
  6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
    - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
  7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
  8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
  9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
  10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
  11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Electromechanical exit devices shall have the following functions and features:
    - a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
    - b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
    - c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
    - d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
    - e. Five-year limited warranty for electromechanical features.
  2. Manufacturers:
    - a. Sargent Manufacturing (SA) - 80 Series.
    - b. No Substitution – Facility Standard.

- C. Multi-Point Exit Devices (Storm Shelter Openings): Multi-point exit devices specifically engineered for out-swinging door applications on tornado or hurricane resistant storm shelter openings. Extra heavy duty steel component construction with each of the latching points automatically activated when the device is locked. The multi-point exit device is approved for usage as part of a complete ICC 500 (2014/2020) and FEMA P-361 (2015/2021) door, frame and hardware assembly.

1. Manufacturers:

- a. Sargent Manufacturing (SA) - FM8700 Series.
- b. No Substitution – Facility Standard.

- D. Steel Removable Mullions: ANSI/BHMA A156.3 steel removable mullions with options for fire rating, locking, through-wire electrification and hurricane compliance as specified.

1. Manufacturers:

- a. Same as exit device manufacturer.

## 2.13 SURFACE DOOR CLOSERS

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

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
7. Storm Shelter Compliance: Door closers to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

- B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:

- a. Sargent Manufacturing (SA) - 281 Series.
  - b. No Substitution – Facility Standard.
- C. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
- 1. Heavy duty surface mounted door closers shall have a 30-year warranty.
  - 2. Manufacturers:
    - a. Sargent Manufacturing (SA) - 351 Series.
    - b. No Substitution – Facility Standard.
- D. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.
- 1. Manufacturers:
    - a. Sargent Manufacturing (SA) - 1431 Series.
    - b. No Substitution – Facility Standard.

#### 2.14 SURFACE MOUNTED CLOSER HOLDERS

- A. Electromagnetic Door Holders: ANSI A156.15, Grade 1 electromagnetic door holder/releases with a minimum 25 to 40 pounds holding power and fail-safe operation; power failure releases door to close.
- 1. Manufacturers:
    - a. Norton Rixson (NO) - 900 Series.

#### 2.15 ARCHITECTURAL TRIM AND ACCESSORIES

- A. Door, Frame and Wall Protective Trim: ANSI/BHMA A156.6, protective products as specified in the hardware sets. Door protection plates shall be not more than 2" less than door width on stop side and 1" less door width on the pull side or on stop side of pairs of doors. Listed manufacturers shall meet all functions and features as specified herein.
- 1. Provide protective trim with functions and features as follows:
    - a. Meets ADA requirements for smooth bottom door surfaces.
    - b. UL Classified options for use on fire-rated doors up to 3 hours.
    - c. Fabricated from stainless steel, brass, bronze, aluminum, or high-impact plastic.

- d. Available in a variety of sizes, finishes, and profiles to suit aesthetic and functional requirements.
  - e. Designed to protect doors, frames, and adjacent walls from damage due to impact, abrasion, or traffic.
  - f. Fasteners included; adhesive-backed options available for select models.
  - g. Ten-year limited warranty.
2. Manufacturers:
    - a. Rockwood (RO).

## 2.16 DOOR STOPS AND HOLDERS

- A. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
  1. Manufacturers:
    - a. Rockwood (RO).
- B. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
  1. Manufacturers:
    - a. Norton Rixson (NO).
    - b. Sargent Manufacturing (SA).

## 2.17 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
  1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Hurricane and Storm Shelter Compliance: Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.
- G. Manufacturers:
  1. Pemko (PE).

## 2.18 ELECTRONIC ACCESSORIES

- A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
  1. Manufacturers:
    - a. Alarm Controls (AK) - CP1-1026 Series.
    - b. Securitron (SU) - DPS Series.

## 2.19 FABRICATION

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

## 2.20 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

### 3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

### 3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
  - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
  - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
  - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
  - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
  - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

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

### 3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

- 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

### 3.5 ADJUSTING

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

### 3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

### 3.7 DEMONSTRATION

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

### 3.8 DOOR HARDWARE SETS

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

- 1. Quantities listed are for each pair of doors, or for each single door.
  - 2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. MR - Markar
4. SU - Securitron
5. RO - Rockwood
6. SA - SARGENT
7. NO - Norton Rixson
8. OT - Other

**Hardware Sets**

**Set: 1.0**

Doors: 101A, 101B, 101G

1 Cylinder	x Type Required	US32D SA
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Notes: Balance of hardware provided with FEMA rated aluminum door assembly.

**Set: 2.0**

Doors: 113A, 205B

2 Continuous Hinge	KCFM83-HD1 x Height Required	PE
1 Mullion	L980	PC SA
1 Rim Exit Device, Storeroom	8804 Less Pull	US32D SA
1 Rim Exit Device, Exit Only	8810 EO	US32D SA
1 Mullion Cylinder	980C1	US26D SA
2 Pull	RM201 Mtg-Type 1XHD	US32D RO
2 Surface Closer	351 CPS	EN SA
2 Drop Plate	351D	EN SA
2 Blade Stop Spacer Kit	581-2	EN SA
1 Gasketing	Provided by Alum. Door Supplier	OT
1 Mullion Gasketing	5110BL	PE
2 Sweep	3452CNB TKSP8	PE
1 Threshold	253x3AFG	PE

Notes: Door normally closed, latched and secured.  
Entry by pulls when doors manually dogged open by hex key in exit device rail or key override.  
Free egress at all times.

**Set: 3.0**

Doors: 121, 136, 201, 205A, 220, 221, 300, 318

2 Continuous Hinge	KCFM83-HD1 PT x Height Required	PE
2 Electric Power Transfer	EL-CEPT	630 SU
1 Mullion	L980	PC SA
1 Rim Exit Device, Storeroom	55 56 8804 Less Pull	US32D SA
1 Rim Exit Device, Exit Only	55 56 8810 EO	US32D SA
1 Mullion Cylinder	980C1	US26D SA
2 Pull	RM201 Mtg-Type 1XHD	US32D RO
2 Surface Closer	351 CPS	EN SA
2 Drop Plate	351D	EN SA
2 Blade Stop Spacer Kit	581-2	EN SA
1 Gasketing	Provided by Alum. Door Supplier	OT
1 Mullion Gasketing	5110BL	PE
2 Sweep	3452CNB TKSP8	PE
1 Threshold	253x3AFG	PE
2 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)	MK
2 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Exit Device)	MK
2 Position Switch	DPS-M / W	SU
1 Card Reader	Provided by Security Contractor	OT
1 Power Supply	Provided by Security Contractor	OT

Notes: Door normally closed, latched and secured.  
Entry by pulls when doors electrically dogged open by access control system, valid card read or key override.  
Free egress at all times.

**Set: 4.0**

Doors: 311B, 312B

1 Continuous Hinge	KCFM83-HD1 x Height Required	PE
1 Rim Exit Device, Storeroom	8804 Less Pull	US32D SA
1 Pull	RM201 Mtg-Type 1XHD	US32D RO
1 Surface Closer	351 CPS	EN SA
1 Drop Plate	351D	EN SA
1 Blade Stop Spacer Kit	581-2	EN SA
1 Gasketing	Provided by Alum. Door Supplier	OT
1 Sweep	3452CNB TKSP8	PE

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1 Threshold 253x3AFG PE

Notes: Door normally closed, latched and secured.  
Entry by pulls when doors manually dogged open by hex key in exit device rail or key override.  
Free egress at all times.

**Set: 5.0**

Doors: 106

1 Continuous Hinge	CFM83HD1 PT x Height Required		PE
1 Electric Power Transfer	EL-CEPT	630	SU
1 Fail Secure Lock	RX 8271 LNL	US26D	SA
1 Surface Closer	351 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Gasketing	2891APK TKSP8		PE
1 Sweep	3452CNB TKSP8		PE
1 Threshold	253x3AFG		PE
1 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)		MK
1 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Lock)		MK
1 Position Switch	DPS-M / W		SU
1 Card Reader	Provided by Security Contractor		OT
1 Power Supply	Provided by Security Contractor		OT
1 Door Viewer	627	CRM	RO

Notes: Door normally closed, latched and secured.  
Entry by valid card read or key override.  
Free egress at all times.

Install gasketing prior to soffit mounted hardware. Do not notch gasketing for soffit mounted hardware.

**Set: 6.0**

Doors: 101D, 101E, 113B

6 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
2 Surface Vert Rod Exit, Classroom	12 NB-8713 ETL	US32D	SA
2 Surface Closer	1431 P10	EN	SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2 Wall Stop	400 / 403	US26D	RO
2 Astragal	18041CNB TKSP		PE
1 Gasketing	S88BL		PE

**Set: 7.0**

Doors: 129, 208, 210

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6 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 5" x 4-1/2"	US26D MK
2 Surface Vert Rod Exit, Classroom	12 NB-8713 ETL	US32D SA
2 Surface Closer	1431 P10	EN SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D RO
2 Electromagnetic Holder	998M	689 NO
2 Astragal	18041CNB TKSP	PE
1 Gasketing	S88BL	PE

**Set: 8.0**

Doors: 101D, 101E

6 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 5" x 4-1/2"	US26D MK
2 Surface Vert Rod Exit, Classroom	12 NB-8713 ETL	US32D SA
2 Surface Closer	1431 P10	EN SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D RO
2 Astragal	18041CNB TKSP	PE
1 Gasketing	S88BL	PE

**Set: 9.0**

Doors: 134B, 135A

6 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
2 Flush Bolt	555	US26D RO
1 Dust Proof Strike	570	US26D RO
1 Entry/Office Lock	28 11G05 LL	US26D SA
1 Surface Closer	1431 P10	EN SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D RO
2 Wall Stop	400 / 403	US26D RO
2 Kick Down Door Stop	461	US26D RO
2 Silencer	608-RKW	RO

Notes: Mount closer on active leaf only.

**Set: 10.0**

Doors: 206A

6 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
2 Flush Bolt	555	US26D RO
1 Dust Proof Strike	570	US26D RO
1 Entry/Office Lock	28 11G05 LL	US26D SA
1 Surface Closer	1431 P10	EN SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D RO
2 Wall Stop	400 / 403	US26D RO

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2 Kick Down Door Stop	461	US26D	RO
1 Acoustic Seal Set	PEMKOSTCSET-1A x Size Required	BL	PE

Notes: Mount closer on active leaf only.

**Set: 11.0**

Doors: 118

6 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	28 11G04 LL	US26D	SA
2 Wall Stop	400 / 403	US26D	RO
2 Silencer	608-RKW		RO

**Set: 12.0**

Doors: 115

6 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	28 11G04 LL	US26D	SA
2 Surface Overhead Stop	9-x36	630	NO
2 Silencer	608-RKW		RO

**Set: 13.0**

Doors: 101C

2 Continuous Hinge	HG305 x Height Required	630	MR
2 Surface Bolt	988	Bright Zinc	SA
1 Multi-Point Lock	FM7349 OL 188	US26D	SA
1 Coordinator	1700	Black	RO
2 Surface Closer	TB 281 O	EN	SA
2 Kick Plate	K1050 WS 10" x 1" LDW CSK BEV	US32D	RO
2 Wall Stop	400 / 403	US26D	RO
1 Gasketing	S773BL		PE

Notes: Metal overlapping astragal furnished by Hollow Metal Door Supplier.

Surface bolts must be installed on the shelter side of the door so surface bolts are protected.

Doors will have a 3/8" undercut.

**Set: 14.0**

Doors: 122A, 122B, 126A, 126B, 202A, 202B, 211A, 211B, 214A, 214B, 215A, 215B

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Rim Exit Device, Classroom Security	8816 ETL x I.S. Thumb Turn Cylinder	US32D	SA
1 Surface Closer	1431 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400 / 403	US26D	RO
1 Kick Down Door Stop	461	US26D	RO
3 Silencer	608-RKW		RO

**Set: 15.0**

Doors: 311A, 312A

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 5" x 4-1/2"	US26D	MK
1 Rim Exit Device, Classroom Security	8816 ETL x I.S. Thumb Turn Cylinder	US32D	SA
1 Surface Closer	1431 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400 / 403	US26D	RO
1 Kick Down Door Stop	461	US26D	RO
3 Silencer	608-RKW		RO

**Set: 16.0**

Doors: 124, 204

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	28 11G04 LL	US26D	SA
1 Surface Closer	1431 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400 / 403	US26D	RO
1 Gasketing	S88BL		PE

**Set: 17.0**

Doors: 310, 313

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	28 11G04 LL	US26D	SA
1 Surface Overhead Stop	9-x36	630	NO
1 Surface Closer	1431 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Gasketing	S88BL		PE

**Set: 18.0**

Doors: 103D

1 Continuous Hinge	HG305 x Height Required	630	MR
1 Multi-Point Lock	FM7349 OL 188	US26D	SA
1 Surface Overhead Stop	9-x36	630	NO
1 Surface Closer	TB 281 O	EN	SA
1 Kick Plate	K1050 WS 10" x 2" LDW CSK BEV	US32D	RO
1 Gasketing	S773BL		PE

Notes: Door will have a 3/8" undercut.

**Set: 19.0**

Doors: 105, 107

3 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	28 11G37 LL	US26D	SA
1 Wall Stop	400 / 403	US26D	RO
3 Silencer	608-RKW		RO

**Set: 20.0**

Doors: 130, 302, 308A

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Entry/Office Lock	28 11G05 LL	US26D	SA
1 Surface Closer	1431 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400 / 403	US26D	RO
1 Kick Down Door Stop	461	US26D	RO
3 Silencer	608-RKW		RO

**Set: 21.0**

Doors: 206B

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D	MK
1 Entry/Office Lock	28 11G05 LL	US26D	SA
1 Surface Closer	1431 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400 / 403	US26D	RO
1 Kick Down Door Stop	461	US26D	RO
1 Acoustic Seal Set	PEMKOSTCSET-1A x Size Required	BL	PE

**Set: 22.0**

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Doors: 134A, 135B

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Entry/Office Lock	28 11G05 LL	US26D SA
1 Surface Closer	1431 CPS	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
1 Kick Down Door Stop	461	US26D RO
3 Silencer	608-RKW	RO

**Set: 23.0**

Doors: 102, 131

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Storeroom Lock	28 11G04 LL	US26D SA
1 Surface Closer	1431 O	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

**Set: 24.0**

Doors: 128

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Storeroom Lock	28 11G04 LL	US26D SA
1 Surface Closer	1431 P10	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

**Set: 25.0**

Doors: 119, 125, 212, 216

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Storeroom Lock	28 11G04 LL	US26D SA
1 Surface Closer	1431 CPS	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
3 Silencer	608-RKW	RO

**Set: 26.0**

Doors: 203, 207, 213A, 213B, 213C, 303, 307

3 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D MK
1 Classroom Lock	28 11G37 LL	US26D SA
1 Wall Stop	400 / 403	US26D RO

DOOR HARDWARE

Owasso 8<sup>th</sup> Grade Addition  
Owasso, OK087100 - 25  
November 25, 2025  
Addendum #2 03.17.2026

3 Silencer	608-RKW	RO
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**Set: 27.0**

Doors: 123A, 123B

3 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D MK
1 Classroom Lock	28 11G37 LL	US26D SA
1 Surface Overhead Stop	9-x36	630 NO
3 Silencer	608-RKW	RO

**Set: 28.0**

Doors: 108, 317.1

3 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D MK
1 Entry/Office Lock	28 11G05 LL	US26D SA
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

**Set: 29.0**

Doors: 305, 306, 308B

3 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D MK
1 Passage Set	28 11U15 LL	US26D SA
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

**Set: 30.0**

Doors: 304, 307.1

4 Hinge, Full Mortise	TA2714-MCK 4-1/2" x 4-1/2"	US26D MK
1 Surface Bolt	630-4	US26D RO
1 Passage Set	28 11U15 LL	US26D SA
1 Wall Stop	400 / 403	US26D RO
4 Silencer	608-RKW	RO

**Set: 31.0**

Doors: 109

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Privacy Set w/ Indicator	V21 EMB 8265 LNL	US26D SA
1 Surface Closer	1431 O	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

DOOR HARDWARE

Owasso 8<sup>th</sup> Grade Addition  
Owasso, OK087100 - 26  
November 25, 2025  
Addendum #2 03.17.2026

**Set: 32.0**

Doors: 116, 132, 133, 217, 218, 314, 315

3 Hinge, Full Mortise, Hvy Wt	T4A3786-MCK 4-1/2" x 4-1/2"	US26D MK
1 Storeroom Deadbolt Lock w/ Indicator	V21 EMB 8251 LNL	US26D SA
1 Surface Closer	1431 O	EN SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D RO
1 Wall Stop	400 / 403	US26D RO
3 Silencer	608-RKW	RO

**Set: 33.0**

Doors: 101F, 103A, 103B, 103C, 103E, 103F, 103G

1 Hardware supplied with door 00

Mark	Hardware
101A	1.0
101B	1.0
101C	13.0
101D	8.0
101E	8.0
101F	33.0
101G	1.0
102	23.0
103A	33.0
103B	33.0
103C	33.0
103D	18.0
103E	33.0
103F	33.0
103G	33.0
105	19.0
106	5.0
107	19.0
108	28.0
109	31.0
113A	2.0
113B	6.0

115	12.0
116	32.0
118	11.0
119	25.0
121	3.0
122A	14.0
122B	14.0
123A	27.0
123B	27.0
124	16.0
125	25.0
126A	14.0
126B	14.0
128	24.0
129	7.0
130	20.0
131	23.0
132	32.0
133	32.0
134A	22.0
134B	9.0
135A	9.0
135B	22.0

136	3.0
201	3.0
202A	14.0
202B	14.0
203	26.0
204	16.0
205A	3.0
205B	2.0
206A	10.0
206B	21.0
207	26.0
208	7.0
210	7.0
211A	14.0
211B	14.0
212	25.0
213A	26.0
213B	26.0
213C	26.0
214A	14.0
214B	14.0
215A	14.0
215B	14.0

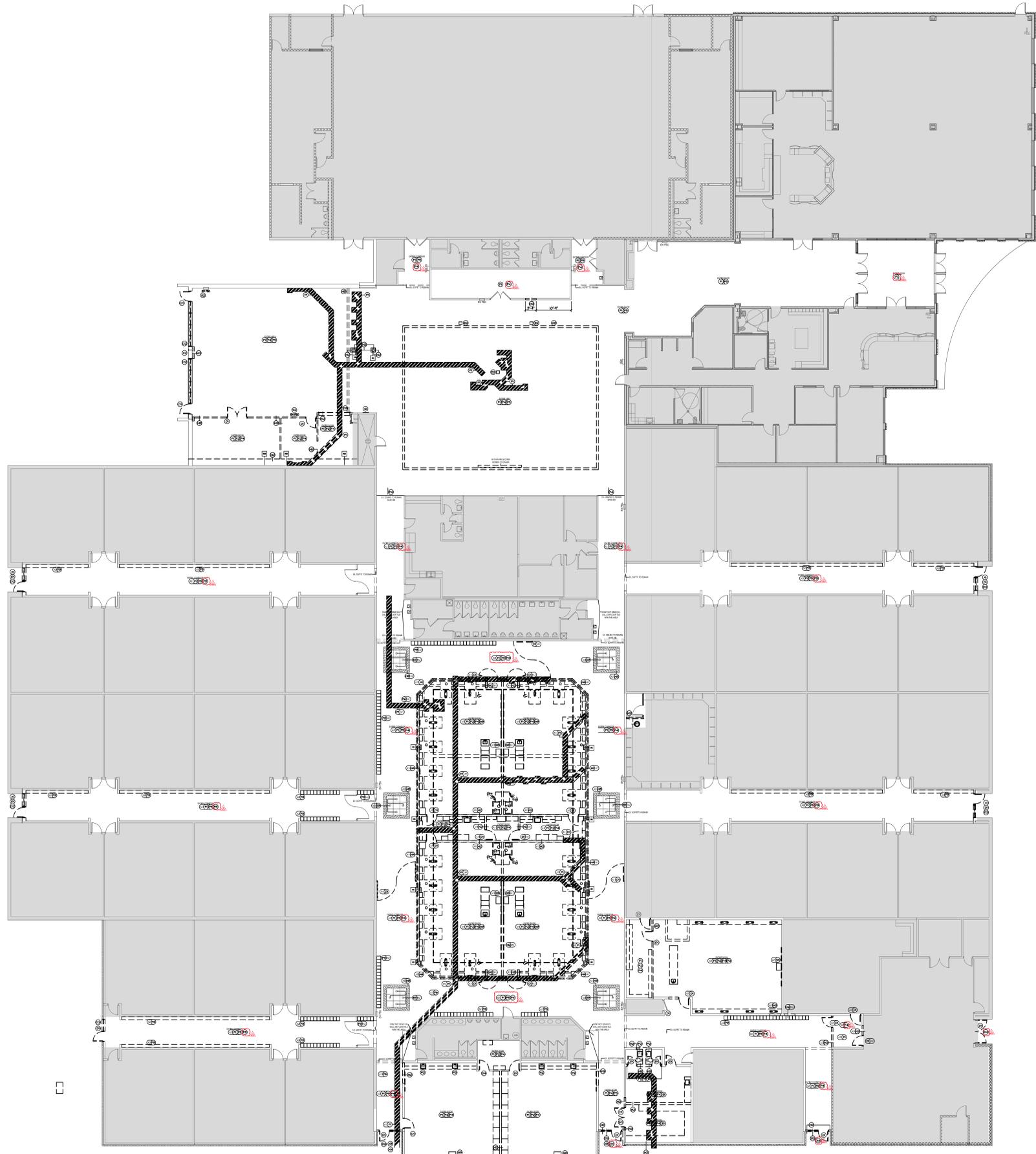
216	25.0
217	32.0
218	32.0
220	3.0
221	3.0
300	3.0
302	20.0
303	26.0
304	30.0

305	29.0
306	29.0
307	26.0
307.1	30.0
308A	20.0
308B	29.0
310	17.0
311A	15.0
311B	4.0

312A	15.0
312B	4.0
313	17.0
314	32.0
315	32.0
317.1	28.0
318	3.0

END OF SECTION 087100

3'-0" 1'-0" 1/2"=1'-0" 2'-0" 1"=1'-0" 3'-0" 1/2"=1'-0" 4'-0" 1"=1'-0" 8'-0" 1/2"=1'-0" 16'-0" 1/4"=1'-0" 32'-0" 1/8"=1'-0"



**DEMOLITION GENERAL NOTES:**

1. COORDINATE WITH THE OWNER ANY PRE-APPROVED DISRUPTION AND VERIFICATION OF SERVICE WITHIN THE EXISTING BUILDING SO AS TO MINIMIZE THE DISRUPTION OF SERVICE.
2. COORDINATE ALL DEMOLITION PHASING EFFORTS WITH THE ARCHITECT-ENGINEER AND OWNERS AND OWNERS REPRESENTATIVES. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF SCHOOL OPERATION AND TO PROVIDE PATRON FACULTY AND STUDENT SAFETY. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER.
3. VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
4. REMOVE ALL DEMOLITION MATERIALS FROM THE SITE UNLESS NOTED OTHERWISE. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
5. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION RELATED ACTIVITY PERFORMED UNDER THIS CONTRACT.
6. REPAIR OR REPLACE ANY WALLS, FLOORS, OR EQUIPMENT DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
7. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT/ENGINEER ANY MATERIALS TO BE REUSED AND WILL BE RESPONSIBLE FOR VERIFYING AND MAINTAINING THE FUNCTIONAL AND AESTHETIC INTEGRITY OF THE MATERIALS.
8. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES SO AS TO NOT INADVERTENTLY INTERRUPT THE CONTINUITY OF THEIR SERVICE.
9. PATCH ALL FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR REROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, ETC. AS REQUIRED TO MAINTAIN FIRE SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
10. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
11. ALL CEILING MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO, LIGHTS, FIRE SPROKLER HEADS, SPEAKERS, SMOKE OR THERMAL DETECTORS SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATION AND CONDITION.
12. CONSTRUCT TEMPORARY PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
13. MAINTAIN SECURE WEATHER-TIGHT ENCLOSURE AT THE EXTERIOR OF THE EXISTING BUILDING THROUGHOUT THE DEMOLITION/CONSTRUCTION PORTION OF THE WORK IN THAT AREA. CONTRACTOR TO PROVIDE BUILDING SECURITY. SECURITY SHALL BE COORDINATED WITH THE OWNER.
14. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, ETC., AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE ARCHITECT-ENGINEER.
15. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
16. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY SOILS ENGINEER.

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architecture. interiors

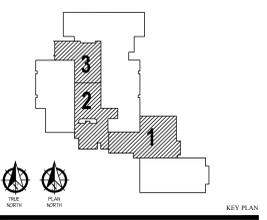
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Owasso, Oklahoma 74055  
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web: stacy-group.com



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**OWASSO  
8th GRADE  
ADDITION**

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025



ADDENDUM 2 03.17.26

11.25.25

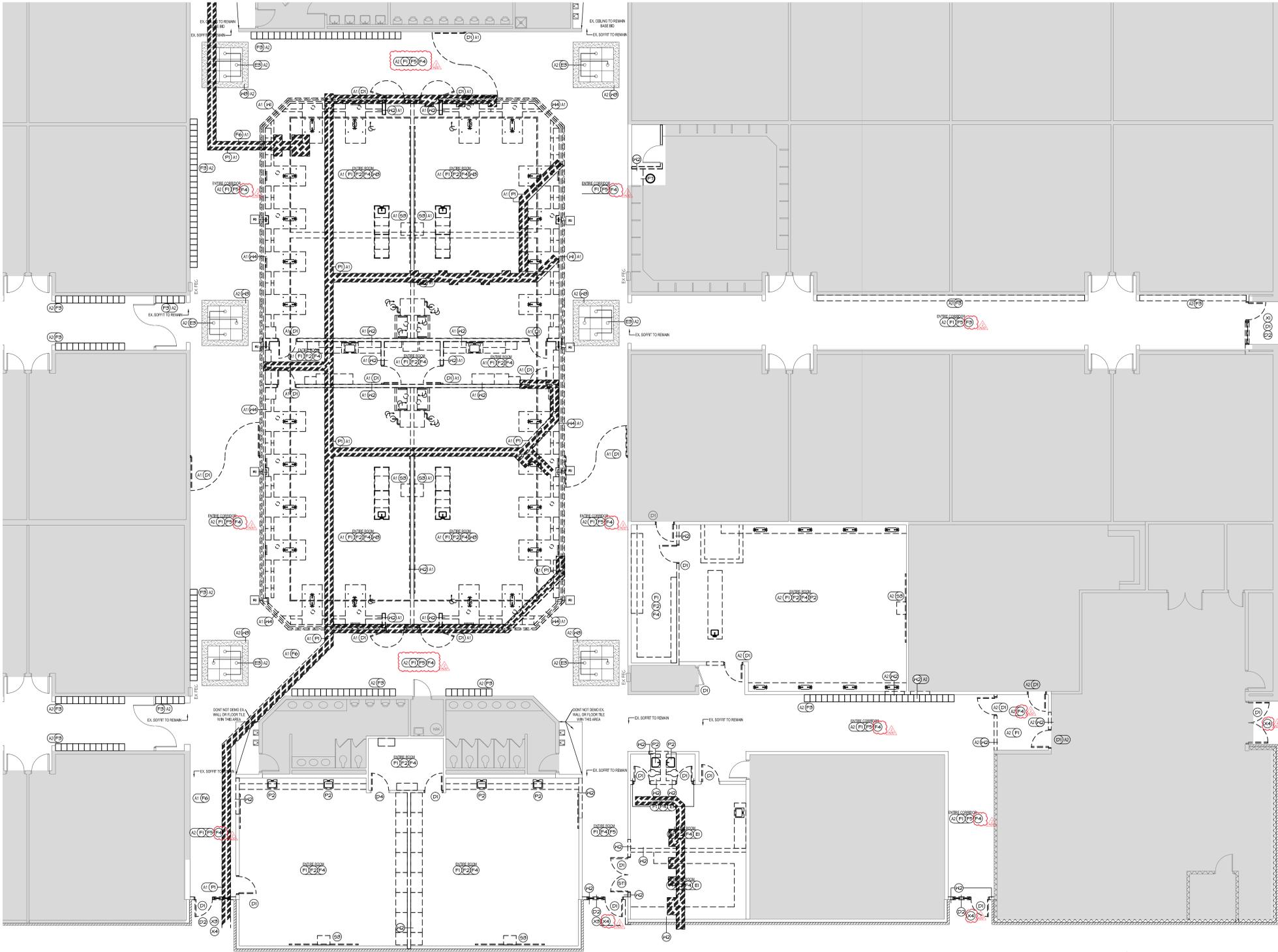
OVERALL DEMO PLAN

11 OVERALL DEMO PLAN  
SCALE: 3/32" = 1'-0"

**D100**

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3'-0" = 1'-0"  
 1 1/2" = 1'-0"  
 1" = 1'-0"  
 3/4" = 1'-0"  
 1/2" = 1'-0"  
 1/4" = 1'-0"  
 1/8" = 1'-0"  
 3/16" = 1'-0"  
 1/16" = 1'-0"



**11 DEMO PLAN AREA 2**  
 SCALE: 1/8" = 1'-0"

**DEMOLITION KEYNOTE LEGEND:**

- DOORS / WINDOWS**
- D1 — DEMO EXISTING DOOR AND FRAME
  - D2 — DEMO EXISTING WINDOW STOREFRONT/DOORFRAME
  - D3 — DEMO EXISTING COILING DOOR AND ALL RELATED COMPONENTS
  - D4 — DEMO EXISTING DOOR, EXISTING FRAME TO REMAIN, STRIP FRAME TO BARE METAL AND PATCH ALL DAMAGE.
- ELECTRICAL**
- E1 — CAP ALL EXISTING ELECTRICAL, PLUMBING, GAS, AND MECHANICAL, DEVICES ON ENTIRE LENGTH OF WALL INDICATED. RE: MEP
  - E2 — DEMO EXISTING POWER POLE
  - E3 — SALVAGE LIGHT FIXTURE AND RETURN TO OWNER
- FINISHES**
- F1 — REMOVE EXISTING FLOORING AND BASE IN EACH ROOM AS INDICATED. COORDINATE WITH FLOOR PATTERN PLANS AND INTERIORS SHEETS.
  - F2 — DEMO EXISTING MILLWORK
  - F3 — DEMO EXISTING LOCKERS
  - F4 — DEMO ACOUSTICAL PANEL CEILING AND ALL ASSOCIATED ACCESSORIES, INCLUDING BUT NOT LIMITED TO LIGHTS, EXIT SIGNS, SMOKE/ THERMAL DETECTORS, GRILLES AND DIFFUSERS. SALVAGE AND RETURN TO OWNER ALL CAMERAS AND ASSOCIATED ACCESSORIES.
  - F5 — DEMO EXISTING HALL TILE AND BACKER BOARD TO EXTENTS SHOWN. COORDINATE WITH INTERIORS SHEETS, EXISTING STUDS TO REMAIN.
  - F6 — SALVAGE, CLEAN, AND REINSTALL EXISTING CARPET AS REQUIRED FOR MECHANICAL SANKCUTS
  - F7 — DEMO EXISTING MILLWORK AS REQUIRED FOR WALL MODIFICATION
- PLUMBING**
- P1 — SAW CUT EXISTING SLAB TO EXTENTS SHOWN RE: PLUMBING
  - P2 — DEMO EXISTING PLUMBING FIXTURE, RE: PLUMBING
- SPECIALTIES**
- S1 — SALVAGE AND REINSTALL EXISTING DEDICATION PLAQUE, RE: INTERIORS FOR LOCATION
  - S2 — DEMO EXISTING FIRE EXTINGUISHER CABINET
  - S3 — SALVAGE EXISTING MARKERBOARD AND PROJECTOR AND RETURN TO OWNER
- STRUCTURAL**
- S11 — DEMO EXISTING BEAM, RE: STRUCTURAL
- WALLS**
- W1 — DEMO EXISTING STUD WALL AND MASONRY VENEER
  - W2 — DEMO WALL
  - W3 — DEMO EXISTING GYP BOARD SOFFIT AND METAL STUD FRAMING
  - W4 — DEMO EXISTING CMU VENEER, SHEATHING, AND GWB, EXISTING STUD TO REMAIN IN PLACE
- EXTERIOR**
- X1 — DEMO EXISTING EIFS SOFFIT
  - X2 — DEMO EXISTING METAL PANEL
  - X3 — DEMO EXISTING FLATWORK
  - X4 — DEMO EXISTING SOFFIT FRAMING AS REQUIRED FOR INSTALLATION OF NEW CEILING

**EXISTING ITEMS TO REMAIN:**

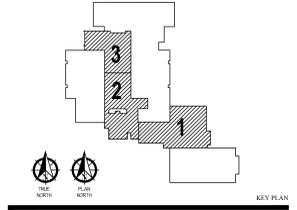
- R1 — EXISTING COLUMN TO REMAIN, PROTECT IN PLACE
- R2 — EXISTING CMU WALLS TO REMAIN
- R3 — EXISTING METAL BUILDING MEMBER TO REMAIN



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**OWASSO  
 8th GRADE  
 ADDITION**

OWASSO PUBLIC  
 SCHOOLS  
 OWASSO, OK  
 2025



KEY PLAN

ADDENDUM 2 03.17.26

REVISIONS  
 11.25.25

ISSUE DATE  
 DEMO PLAN - AREA 2

**D101**

SHEET TITLE

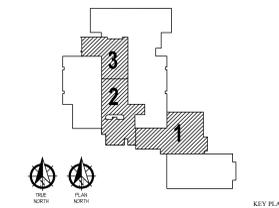
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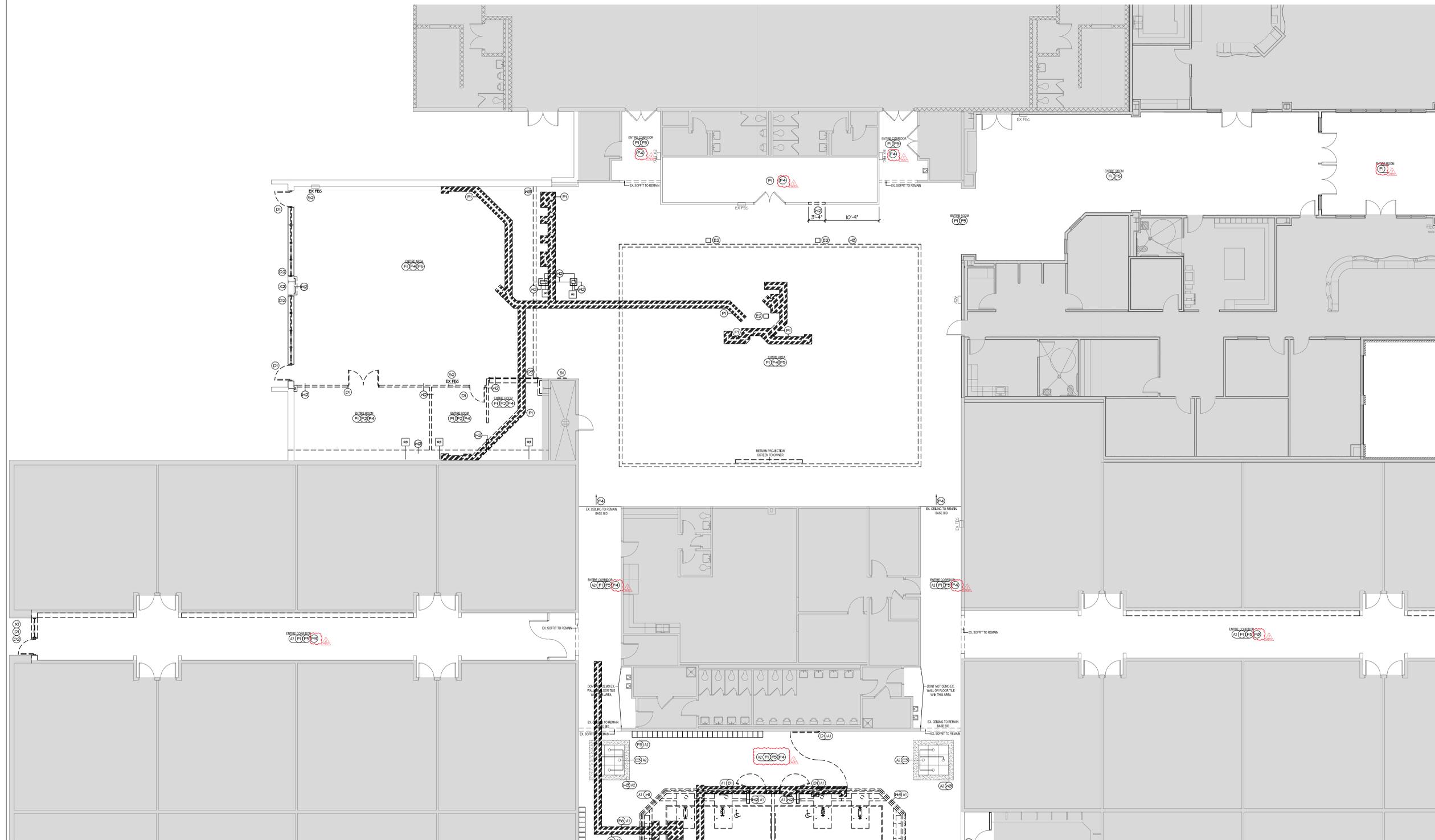
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OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025



3'-0" 1'-0" 1/2"=1'-0" 2'-0" 1"=1'-0" 3/4"=1'-0" 1"=1'-0" 1/2"=1'-0" 1"=1'-0" 1/4"=1'-0" 1/8"=1'-0" 3"



**11 DEMO PLAN AREA 2**  
SCALE: 1/8" = 1'-0"  
BASE BID

- EXISTING ITEMS TO REMAIN:
- R1 ——— EXISTING COLUMN TO REMAIN, PROTECT IN PLACE
  - R2 ——— EXISTING CMU WALLS TO REMAIN
  - R3 ——— EXISTING METAL BUILDING MEMBER TO REMAIN

ADDENDUM 2 03.17.26

REVISIONS  
11.25.25

ISSUE DATE  
11.25.25

PROJECT NO.  
OWASSO 8th GRADE ADDITION

SHEET TITLE  
D102

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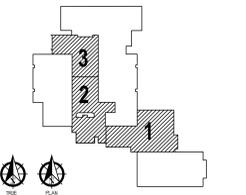


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ADDITION

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2025

PROJECT



KEY PLAN

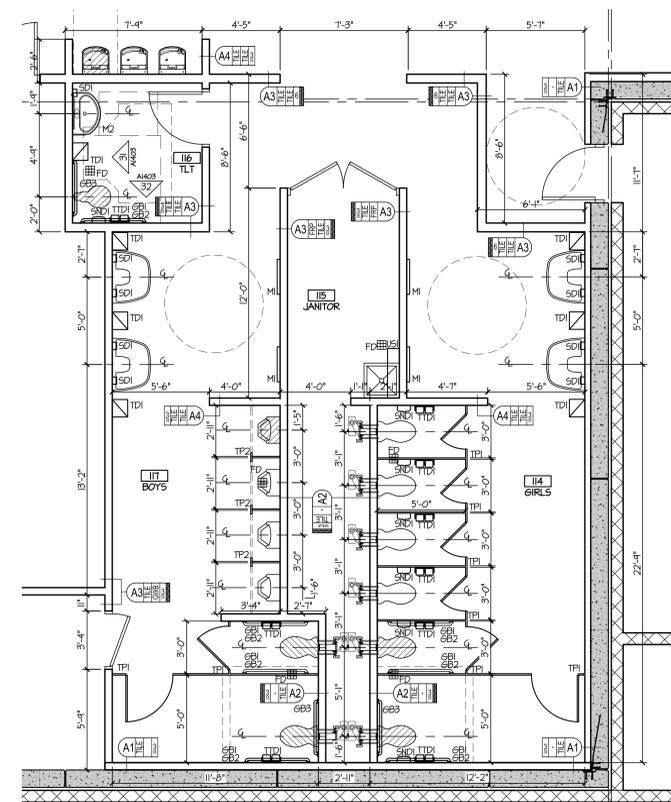
ADDENDUM #2 03.17.2026

11.25.25 ISSUE DATE

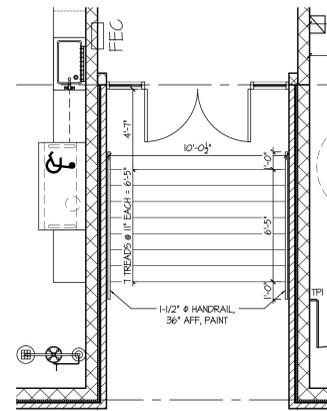
ENLARGED PLANS

A200  
SHEET TITLE

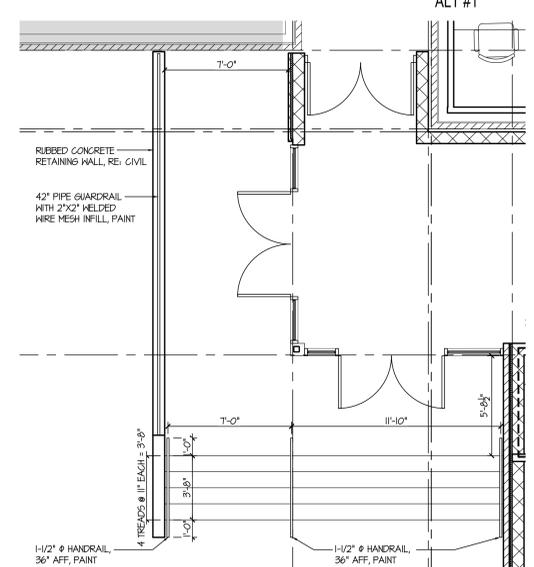
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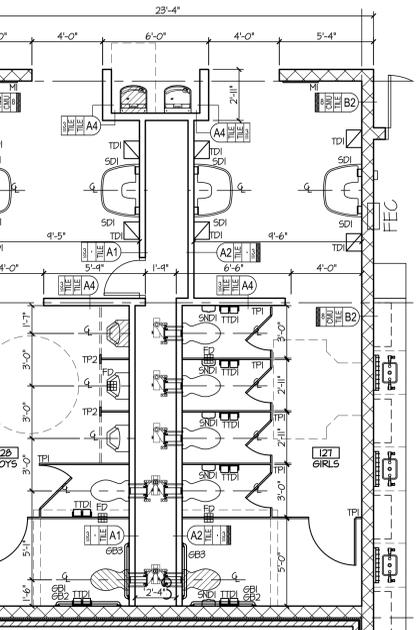
16 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



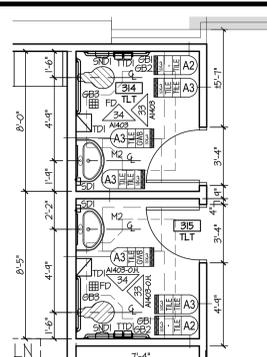
23 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



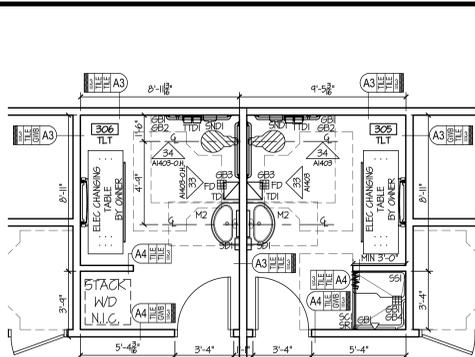
22 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



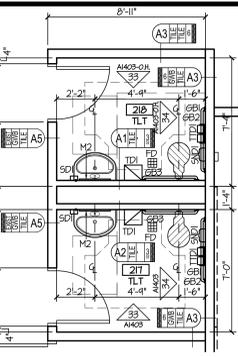
21 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



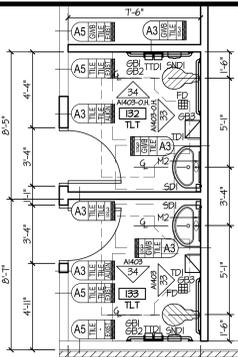
11 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



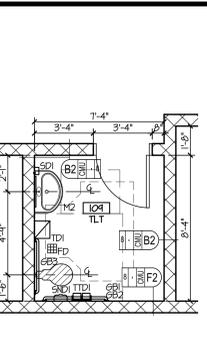
12 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



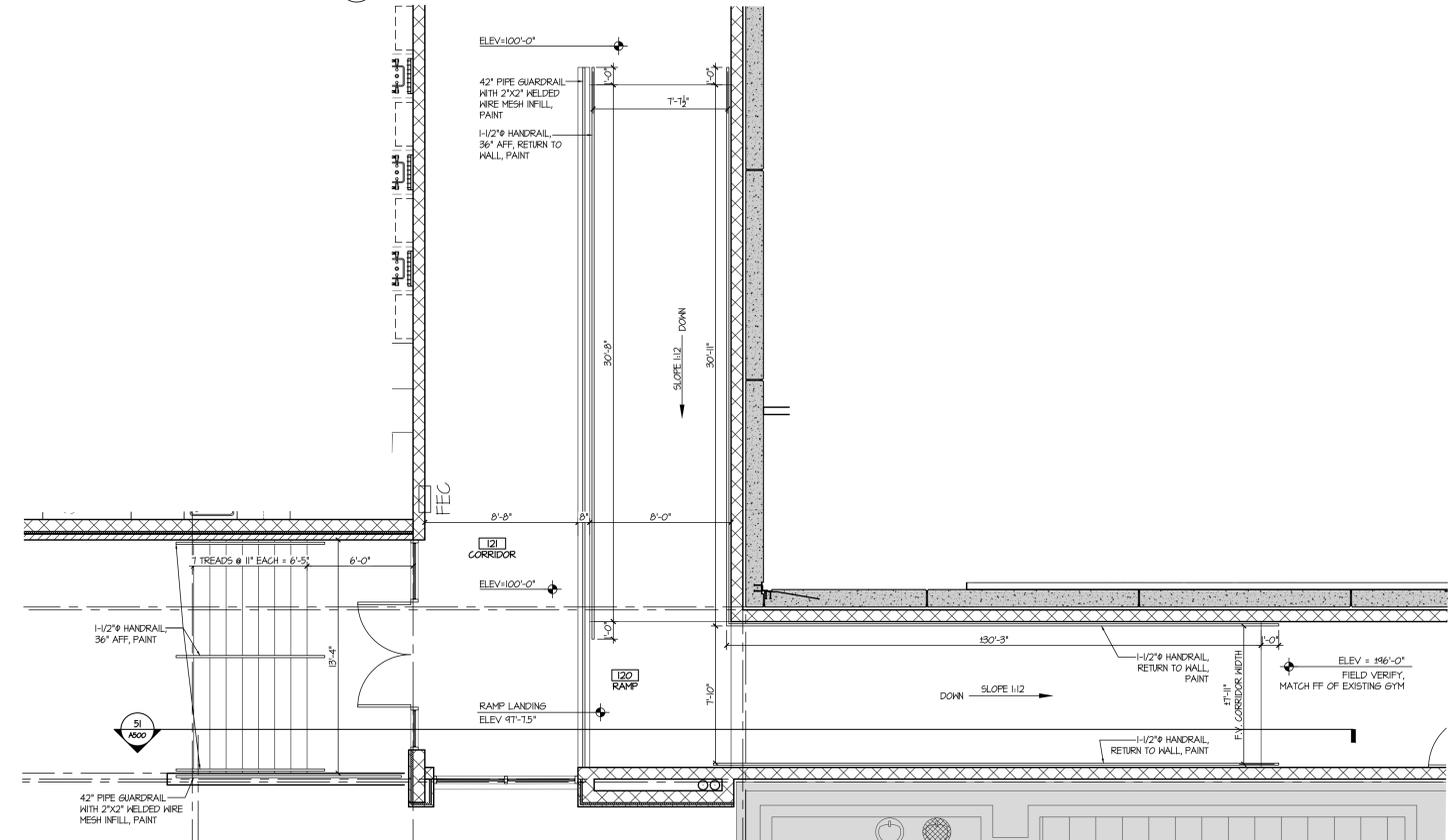
13 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"  
ALT #1



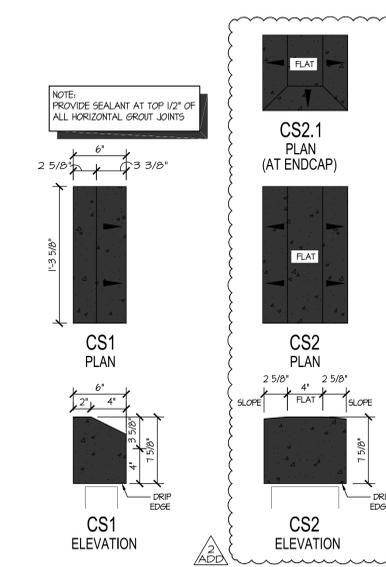
14 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



15 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



31 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



32 CAST STONE PROFILES  
SCALE: 1-1/2" = 1'-0"

1/16"=1'-0" 1/8"=1'-0" 1/4"=1'-0" 1/2"=1'-0" 3/4"=1'-0" 1"=1'-0" 1 1/2"=1'-0" 2"=1'-0" 3"=1'-0" 4"=1'-0" 6"=1'-0" 12"=1'-0" 18"=1'-0" 30"=1'-0" 36"=1'-0"

Scale: 1/4" = 1'-0"  
Date: 11/25/25  
Drawn by: [Name]  
Checked by: [Name]

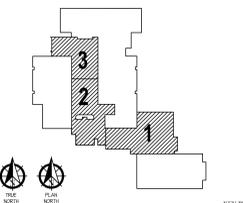


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ADDITION**

OWASSO PUBLIC  
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PROJECT



KEY PLAN

- NOTES FOR SOFFITS CLAD WITH PLASTIC LAMINATE PANELS:**
- 5/8" PLYWD. SUBSTRATE BY FRAMING SUB. FOR PLAM. PANEL CONNECTION BY MILLWORK SUB.
  - PLAM. PANELS AND REQUIRED BLOCKING BY MILLWORK SUB.
  - ALL PLAM. PANELS TO RECEIVE A MITER FOLD AT OUTSIDE CORNERS WHERE POSSIBLE.
  - ALL EDGES OF PLAM. PANELS TO BE SELF LAMINATE. NO PVC EDGE BANDING.
  - ALL FASTENERS TO BE CONCEALED. IF A 3/4" PANEL WITH DIRECT ATTACHMENT IS TO BE USED PROVIDE A MATCHING PLAM. PLUG WHERE COUNTERSUNK MECHANICAL FASTENER IS USED UNLESS NOTED OTHERWISE FOR POST LAMINATE IN FIELD.

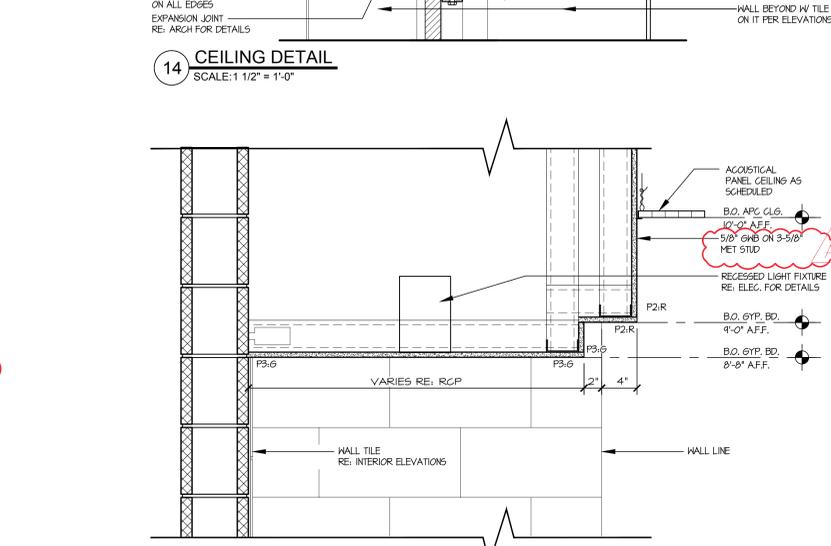
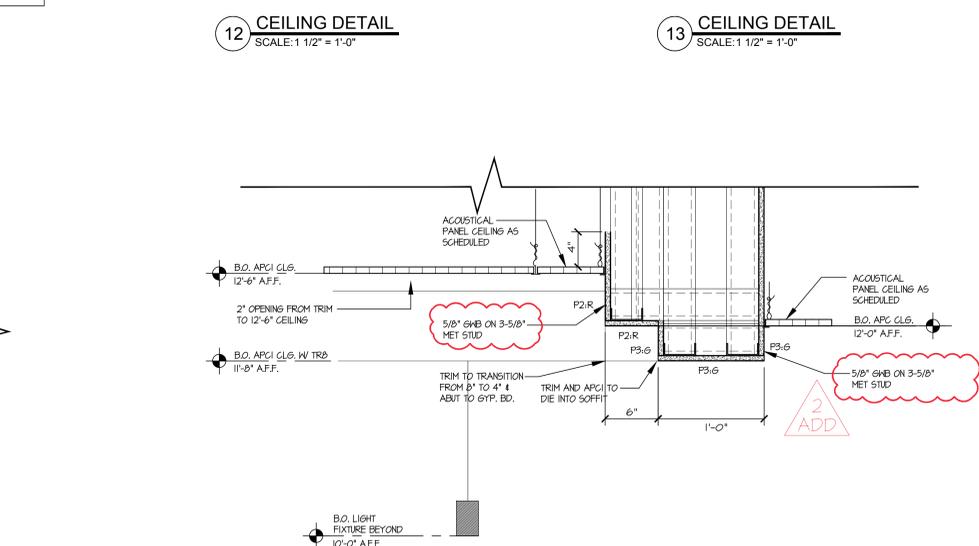
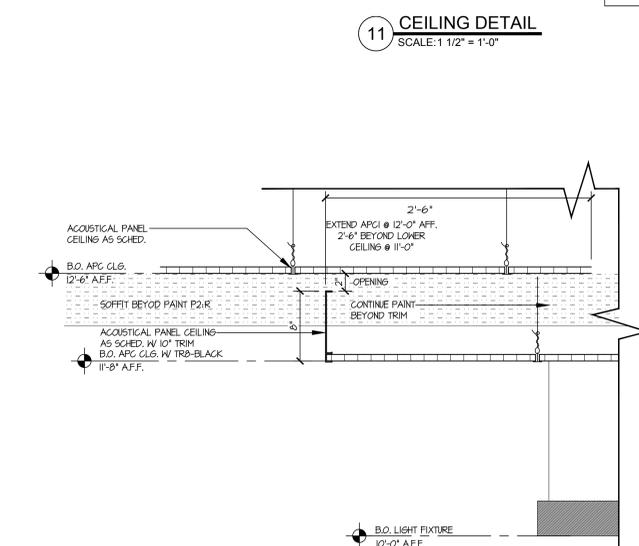
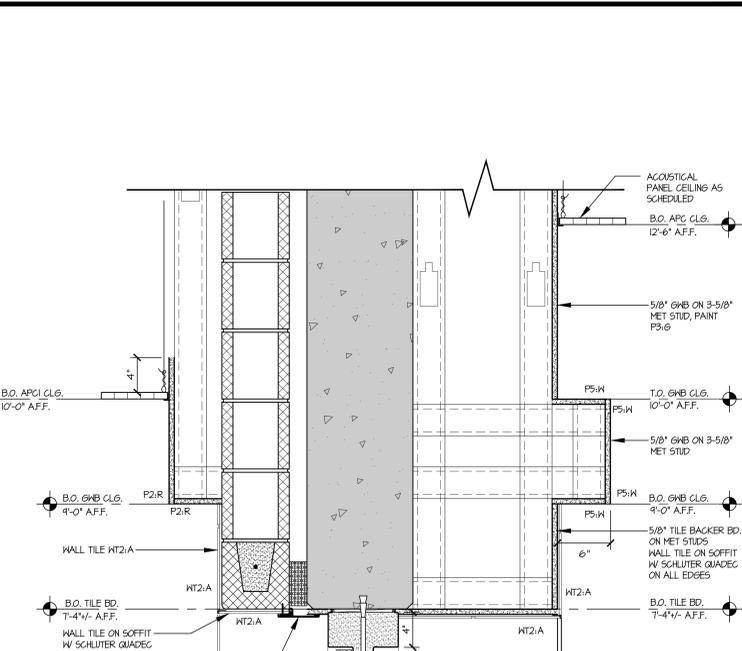
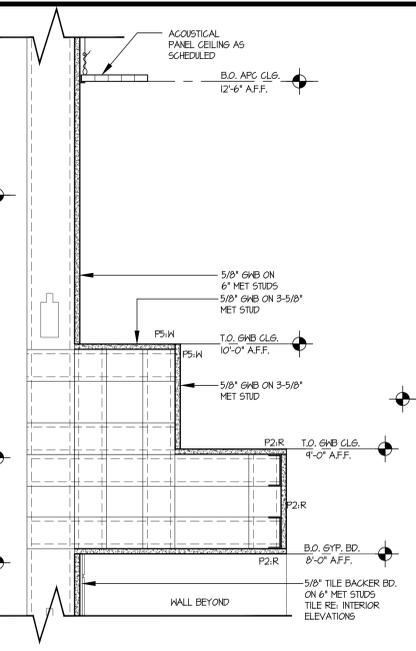
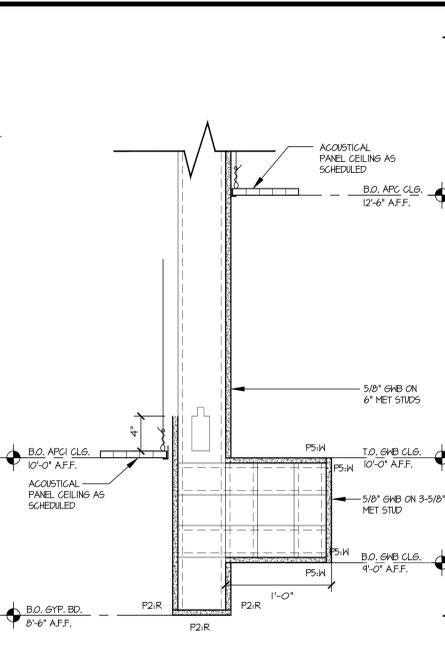
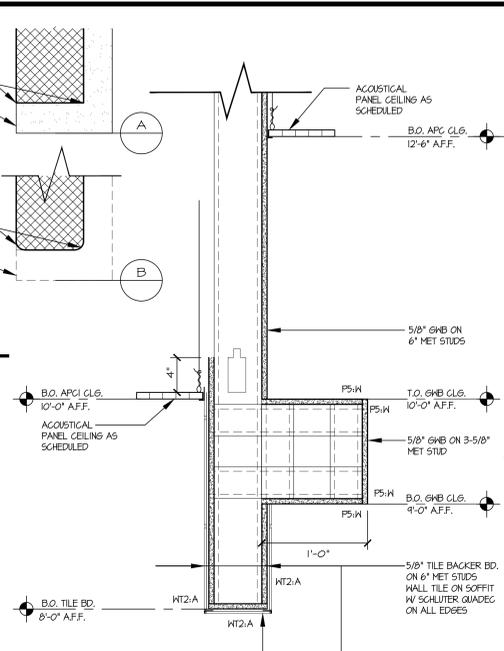
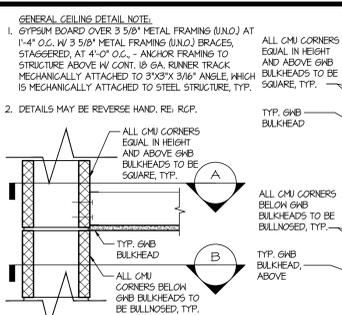
ADDENDUM 2 03.17.26

11.25.25

CEILING DETAILS

**A310**

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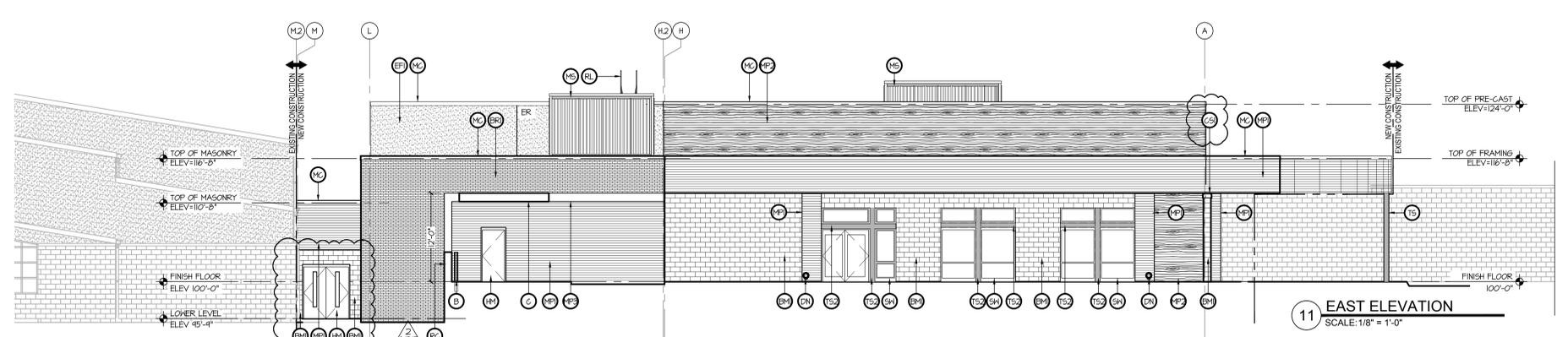
1/16"=1'-0"  
1/8"=1'-0"  
1/4"=1'-0"  
1/2"=1'-0"  
3/4"=1'-0"  
1"=1'-0"  
1 1/2"=1'-0"  
2"=1'-0"  
3"=1'-0"  
4"=1'-0"  
6"=1'-0"  
8"=1'-0"  
12"=1'-0"  
18"=1'-0"  
24"=1'-0"  
30"=1'-0"  
36"=1'-0"

MARK	MATERIAL	MFGR.	STYLE/FINISH	COLOR	REMARKS
A	ALUMINUM DOOR	KANNEER		BLACK ANODIZED	
AS	ALUMINUM STOREFRONT	KANNEER	TRIFAB 451-TYPERHADIZE	BLACK ANODIZED	FRONT GLAZED
B	STEEL BOLLARD			PAINT, BLACK	RE: CIVIL
BRI	BRICK	INTERSTATE	WALNUT		
BMI	BURNISHED MASONRY UNIT	TRENNYTH	TRENDSTONE PLUS	SPICE	
C	PREMANUFACTURED CANOPY	MAPES	4" SMOOTH FACE FASCIA	BLACK	RE: STRUCT FOR ATTACHMENT
CSH-CSS	CAST STONE			FROM FULL LINE	RE: 32/A200
DN	DOWNPOUT NOZZLE				RE: PLUMBING
EPI	EIP5	DRYVIT	SANDPEBBLE FINE	MATCH EXISTING	PROVIDE SAMPLE
ELC	EXPANSION JOINT COVER	CS GROUP	RE: DW69	FROM FULL LINE	

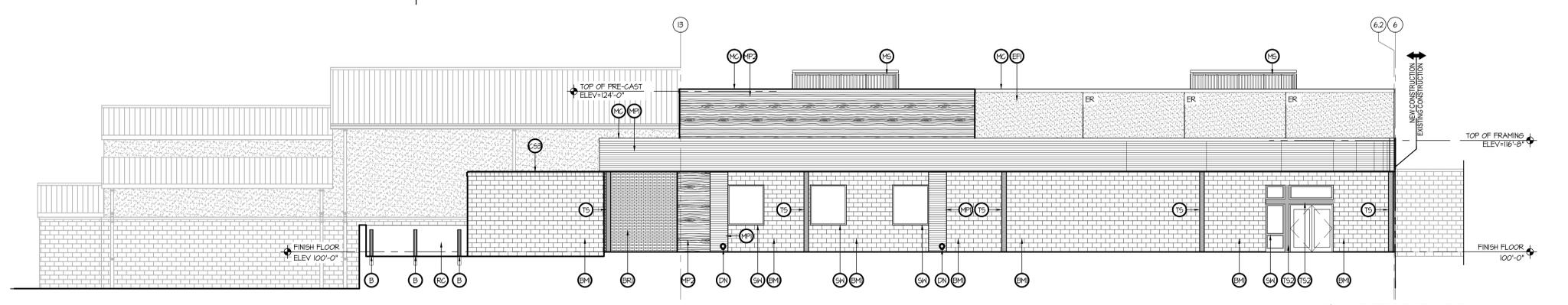
MARK	MATERIAL	MFGR.	STYLE/FINISH	COLOR	REMARKS
EP	EIP5 REVEAL-1" VEE				
G	STEEL GATE	AMETCO	SHADOW 100 DESIGN DOUBLE SWING	BLACK	
GL	GLAZING				SAFE HAVEN DEFENSE ROY RESISTANT FILM WITH SILICONE ANCHORS
HM	HOLLOW METAL DOOR AND FRAME		PRIME AND PAINT	BLACK	
HR	GUARDRAIL/HANDRAIL		PRIME AND PAINT	BLACK	
LT	WALL MOUNTED LIGHT				RE: LIGHT FIXTURE SCHEDULE
MC	PRE-FINISHED METAL COPING	BERRIDGE		MATTE BLACK	
ML	PRE-FINISHED METAL LOUVER				RE: MECHANICAL
MP1	PREFORMED METAL PANEL	AL B3	6" PLANK	EMERY METALLIC	
MP2	PREFORMED METAL PANEL	AL B3	6" PLANK	DARK EUROPEAN CHERRY	
MP3	PREFORMED METAL PANEL	AL B3	6" PLANK	ORCA BLACK	

MARK	MATERIAL	MFGR.	STYLE/FINISH	COLOR	REMARKS
MFR	PREFORMED METAL PANEL	BERRIDGE	MS-12	FROM FULL LINE	
MS	MECHANICAL SCREEN	CITYSCAPES		FROM FULL LINE	
RC	RUBBED CONCRETE				
RL	ROOF LADDER	ALAGO	#564		W/ CROSSOVER PLATFORM
SO	CLTR. BOX AND DOWNPOUT				FROM FULL LINE
SO	SCUPPER OVERFLOW				FROM FULL LINE
SH	STORM WINDOW	SURVIVALITE		BLACK ANODIZED	
TS	TUBE STEEL BEAM		PAINT: P4 SHERWIN WILLIAMS 6250 TRICORN BLACK	ARCH STEEL, GRIND SMOOTH OF ALL MARKINGS	
TS2	TUBE STEEL		WRAP WITH BRAKE MTL TO MATCH SH		RE: STRUCT

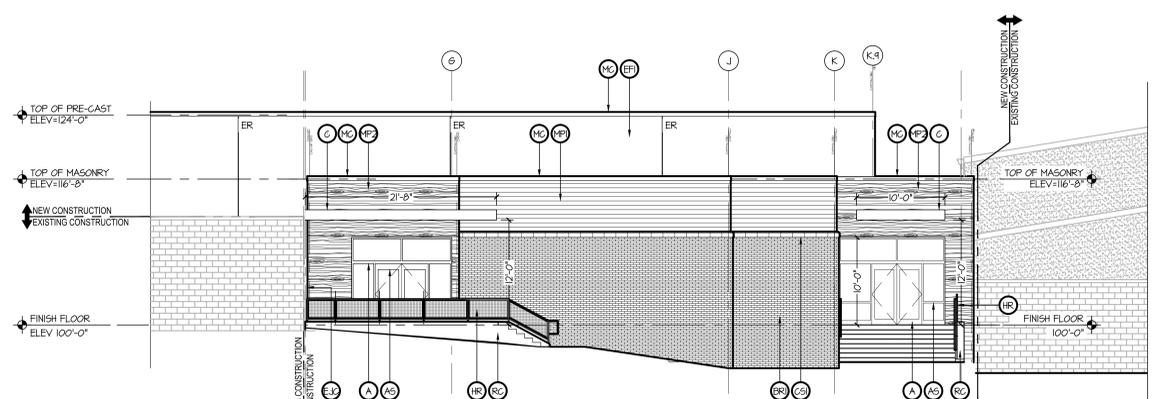
- ELEVATION GENERAL / SPECIFIC NOTES:**
- GENERAL NOTES APPLY TO ALL ELEVATION SHEETS.
  - ALL EXPOSED STEEL IS CONSIDERED ARCHITECTURAL STEEL. IT SHALL BE GRIND SMOOTH OF ALL MARKINGS AND ALL WELDS ARE TO BE GRIND SMOOTH. ANY GRIND MARKS, SCRATCHES, OR OTHER DAMAGE IN THE GALVANIZING SHALL BE REPAIRED PRIOR TO PAINTING.
  - ALL EXPOSED STEEL AND METAL DECK TO BE GALVANIZED.
  - ALL EIPS TO RECEIVE WATER RESISTIVE COATING ON SHEATHING PER MANUFACTURER'S STANDARD. REFER TO EIP5 SPECIFICATION.
  - PROVIDE CONCRETE SPLASH BLOCKS FOR ROOF DRAIN SCUPPERS AND DOWNPOUTS WHERE THEY OCCUR IF NOT AT A SIDEWALK.
  - ALL COLORS NOTED TO MATCH EXISTING MUST BE APPROVED BY ARCHITECT.
  - COORDINATE HEIGHT OF EXTERIOR LIGHTING WITH ARCHITECT.
  - SEALANT COLOR TO MATCH ADJACENT SURFACE. ALL COLORS TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
  - MASONRY CONTROL JOINTS SHOWN ON ARCHITECTURAL ELEVATIONS ARE FOR MASONRY VENEER ONLY. REFER TO STRUCTURAL FOR CONTROL JOINTS IN STRUCTURAL WALLS.



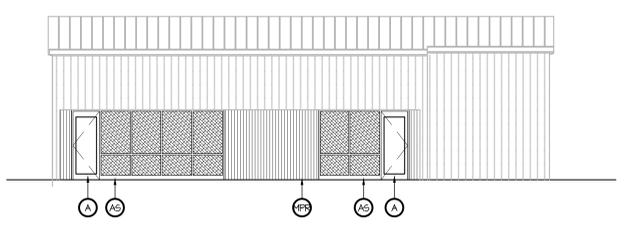
**11 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



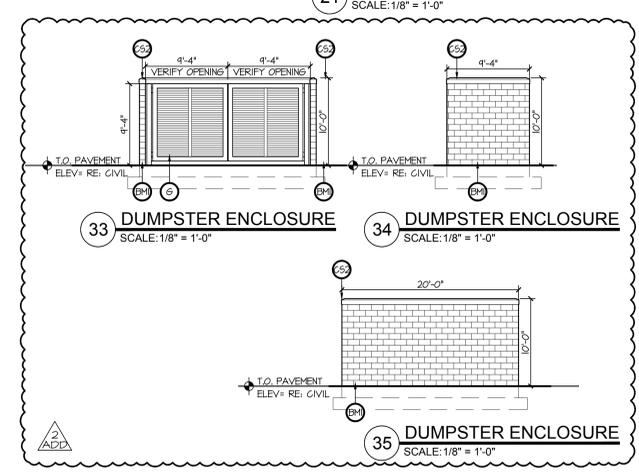
**21 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**31 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



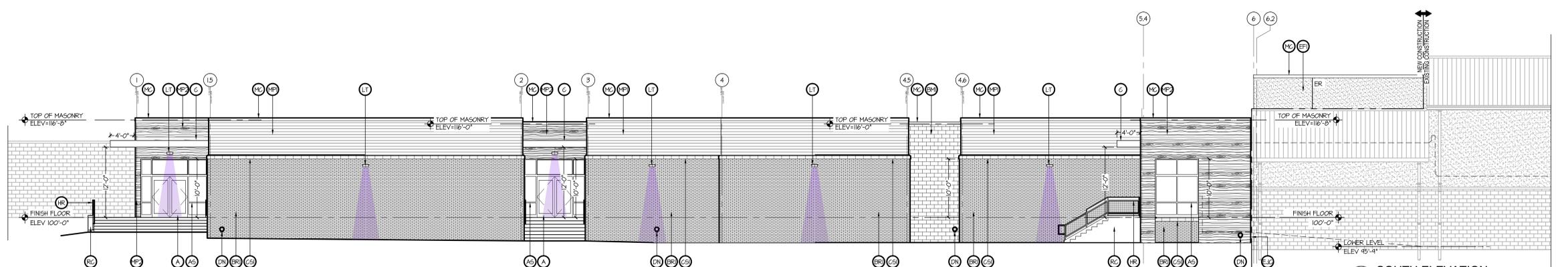
**32 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



**33 DUMPSTER ENCLOSURE**  
SCALE: 1/8" = 1'-0"

**34 DUMPSTER ENCLOSURE**  
SCALE: 1/8" = 1'-0"

**35 DUMPSTER ENCLOSURE**  
SCALE: 1/8" = 1'-0"



**41 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"

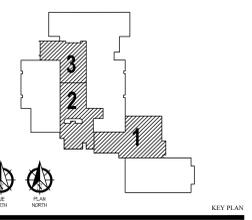
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Owasso, Oklahoma 74055  
phone: 918.272.2022  
web: stacy-group.com



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**OWASSO  
8th GRADE  
ADDITION**

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025



**ADDENDUM #2** 03.17.2026

**11.25.25** ISSUE DATE

**EXTERIOR ELEVATIONS**

**A400**  
SHEET TITLE

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DOOR AND FRAME SCHEDULE - BASE BID

DOOR NUMBER	DOOR					FRAME/WINDOW						REMARKS			
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	THROAT WIDTH	MATERIAL	FIRE RATING	HEAD	JAMB		JAMB	SILL	
101A	COMMONS	FR 3'-0"	T'-0"	2"	2AS	ALUM	A1	5"	ALUM	-	53/A101	13/A601	25/A600	-	ICC 500, CARD READER
101B	COMMONS	FR 3'-0"	T'-0"	2"	2AS	ALUM	A1	5"	ALUM	-	53/A101	25/A600	-	-	ICC 500, CARD READER
101C	COMMONS	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H4	7"	HM	90 MIN	5/A101	21/A600	61/A101	-	ICC 500, VERIFY EXISTING OPENING SIZE
101D	COMMONS	FR 3'-0"	T'-0"	1-3/4"	INDF	WD	H2F	7"	HM	90 MIN	-	21/A600	-	-	-
101E	COMMONS	FR 3'-0"	T'-0"	1-3/4"	INDF	WD	H2F	7"	HM	90 MIN	-	-	-	-	-
101F	COMMONS	14'-6"	12'-10"	1-1/4"	65TM	ST	-	-	-	-	41/A520	21/A600	-	-	ICC 500 POWERED COLLING DOOR
101G	COMMONS	FR 3'-0"	T'-0"	2"	2AS	ALUM	A1	5"	ALUM	-	53/A101	13/A601	25/A600	-	ICC 500, CARD READER
102	IT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7-1/4"	HM	-	3/A101	41/A101	-	-	-
102A	SERVING	12'-0"	10'-0"	1-1/4"	65TM	ST	-	-	-	90 MIN	41/A520	14/A601	24/A601	-	ICC 500 POWERED COLLING DOOR
102B	SERVING	12'-0"	10'-0"	1-1/4"	65TM	ST	-	-	-	90 MIN	41/A520	14/A601	-	-	ICC 500 POWERED COLLING DOOR
102C	SERVING	12'-0"	10'-0"	1-1/4"	65TM	ST	-	-	-	90 MIN	41/A520	14/A601	24/A601	-	ICC 500 POWERED COLLING DOOR
102D	SERVING	3'-0"	T'-0"	1-3/4"	4HM	HM	H4	7"	HM	90 MIN	44/A101	43/A101	61/A101	-	ICC 500
102E	SERVING	12'-0"	10'-0"	-	75T	ST	-	-	-	-	41/A520	14/A601	24/A601	-	POWERED COLLING GRILLE
102F	SERVING	12'-0"	10'-0"	-	75T	ST	-	-	-	-	41/A520	14/A601	-	-	POWERED COLLING GRILLE
102G	SERVING	12'-0"	10'-0"	-	75T	ST	-	-	-	-	41/A520	14/A601	-	-	POWERED COLLING GRILLE
105	DRY STORAGE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
106	CORRIDOR	4'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	14/A101	24/A101	-	-	CARD READER, DOOR VIEWER
107	JANITOR	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
108	OFFICE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
109	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
113A	CORRIDOR	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	-	-	-	-	-
113B	CORRIDOR	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H2F	7"	HM	90 MIN	11/A101	21/A101	-	-	-
115	JANITOR	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
116	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
118	STORAGE	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7-1/4"	HM	-	31/A101	41/A101	-	-	-
119	INVERTER	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
121	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A4	4-1/2"	ALUM	-	34/A101	11/A601	11/A601	-	CARD READER
122A	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
122B	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
123A	PREP	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
123B	PREP	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
124	CHEMICAL	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	45 MIN	31/A101	41/A101	-	-	-
125	ELEC	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
126A	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
126B	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
128	BOYS	2'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
129	CORRIDOR	FR 3'-6"	T'-0"	1-3/4"	4HM	HM	H2F	7"	HM	90 MIN	11/A101	14/A600	-	-	FIELD VERIFY CORRIDOR WIDTH, MAG HOLD OPEN
130	BREAKOUT	3'-0"	T'-0"	1-3/4"	4HM	HM	-	-	-	-	-	-	-	-	FIELD VERIFY EXISTING FRAME
131	ELECTRICAL	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
132	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
133	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
136	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A6	4-1/2"	ALUM	-	34/A520	21/A601	-	-	CARD READER

DOOR AND FRAME SCHEDULE - BASE BID

DOOR NUMBER	DOOR					FRAME/WINDOW						REMARKS			
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	THROAT WIDTH	MATERIAL	FIRE RATING	HEAD	JAMB		JAMB	SILL	
201	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A3	4-1/2"	ALUM	-	35/A101	24/A600	-	-	CARD READER
202A	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
202B	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	7"	HM	-	11/A101	21/A101	-	-	-
203	PREP	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	OMIT FOR ALT #3
204	CHEMICAL	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	45 MIN	31/A101	41/A101	-	-	OMIT FOR ALT #3
205A	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A12	4-1/2"	ALUM	-	54/A101	31/A600	31/A601	63/A101	CARD READER
205B	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A13	4-1/2"	ALUM	-	54/A101	31/A600	31/A601	63/A101	-
206A	CHOIR	FR 3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	16/A101	26/A101	-	-	SOUND SEAL
206B	CHOIR	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	16/A101	26/A101	-	-	SOUND SEAL
207	STORAGE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	-	-	-	15/A101	25/A101	-	-	FIELD VERIFY EXISTING FRAME SIZE
208	CORRIDOR	FR 3'-3"	T'-0"	1-3/4"	4HM	HM	H2F	7"	HM	90 MIN	11/A101	41/A600	34/A600	-	FIELD VERIFY CORRIDOR WIDTH, MAG HOLD OPEN
210	CORRIDOR	FR 3'-2"	T'-0"	1-3/4"	4HM	HM	H2F	7"	HM	90 MIN	11/A101	32/A600	33/A600	-	FIELD VERIFY CORRIDOR WIDTH, MAG HOLD OPEN
220	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A6	4-1/2"	ALUM	-	34/A520	21/A601	-	63/A101	CARD READER
221	CORRIDOR	FR 3'-4"	T'-0"	2"	2A	ALUM	A5	4-1/2"	ALUM	-	43/A101	21/A601	-	63/A101	CARD READER, FIELD VERIFY OPENING

DOOR AND FRAME SCHEDULE - BASE BID

DOOR NUMBER	DOOR					FRAME/WINDOW						REMARKS			
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	THROAT WIDTH	MATERIAL	FIRE RATING	HEAD	JAMB		JAMB	SILL	
300	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A6	4-1/2"	ALUM	-	34/A520	21/A601	-	-	CARD READER
302	SPEED	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
303	STB	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
304	CALM	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	DUTCH DOOR, NO SHELF
305	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
306	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
307	STB	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
307J	CALM	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	DUTCH DOOR, NO SHELF
308A	SPEED	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
308B	SPEED	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
310	STB	3'-0"	T'-0"	1-3/4"	4HM	HM	H2F	4-7/8"	HM	45 MIN	31/A101	41/A101	-	-	-
311A	ART	4'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
311B	ART	3'-0"	T'-0"	2"	2A	ALUM	A1	4-1/2"	ALUM	-	43/A101	43/A600	-	63/A101	-
312A	ART	4'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
312B	ART	3'-0"	T'-0"	2"	2A	ALUM	A3	4-1/2"	ALUM	-	43/A101	43/A600	-	63/A101	-
313	STB	3'-0"	T'-0"	1-3/4"	4HM	HM	H2F	4-7/8"	HM	45 MIN	31/A101	41/A101	-	-	-
314	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
315	TLT	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
317J	OFFICE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	F.V.	HM	-	15/A101	25/A101	-	-	FIELD VERIFY STUD WIDTH
318	CORRIDOR	FR 3'-0"	T'-0"	2"	2A	ALUM	A6	4-1/2"	ALUM	-	34/A520	21/A601	-	-	CARD READER

DOOR AND FRAME SCHEDULE - ALT #1

DOOR NUMBER	DOOR					FRAME/WINDOW						REMARKS			
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	THROAT WIDTH	MATERIAL	FIRE RATING	HEAD	JAMB		JAMB	SILL	
211A	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
211B	SCIENCE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
212	STORAGE	3'-0"	T'-0"	1-3/4"	4HM	HM	H1	4-7/8"	HM	-	31/A101	41/A101	-	-	-
213A	PREP	3'-0"	T'-0"												



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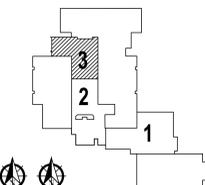
NOTES:  
ALL FLOOR TILE PATTERNS ARE DRAWN USING MFG. NOMINAL SIZES. TILE WITHIN PATTERNS MAY NEED TO SHIFT ONE HALF TILE, DUE TO TRUE TILE SIZE, TO ELIMINATE SMALL SLIVERS OF TILE AND TO MAINTAIN A 3/16" GROUT JOINT. SUB SHALL NOT RELY ON COUNTING TILE IN PATTERNS SHOWN FOR TAKE-OFF.

ALL LVT PATTERNS ARE DRAWN USING MFG. NOMINAL SIZES. PLANKS MAY NEED TO SHIFT ONE HALF TILE, DUE TO TRUE PLANK SIZE, TO ELIMINATE SMALL SLIVERS.

# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT



KEY PLAN

ADDENDUM 1 03.02.26  
ADDENDUM 2 03.17.26

REVISIONS

11.25.25

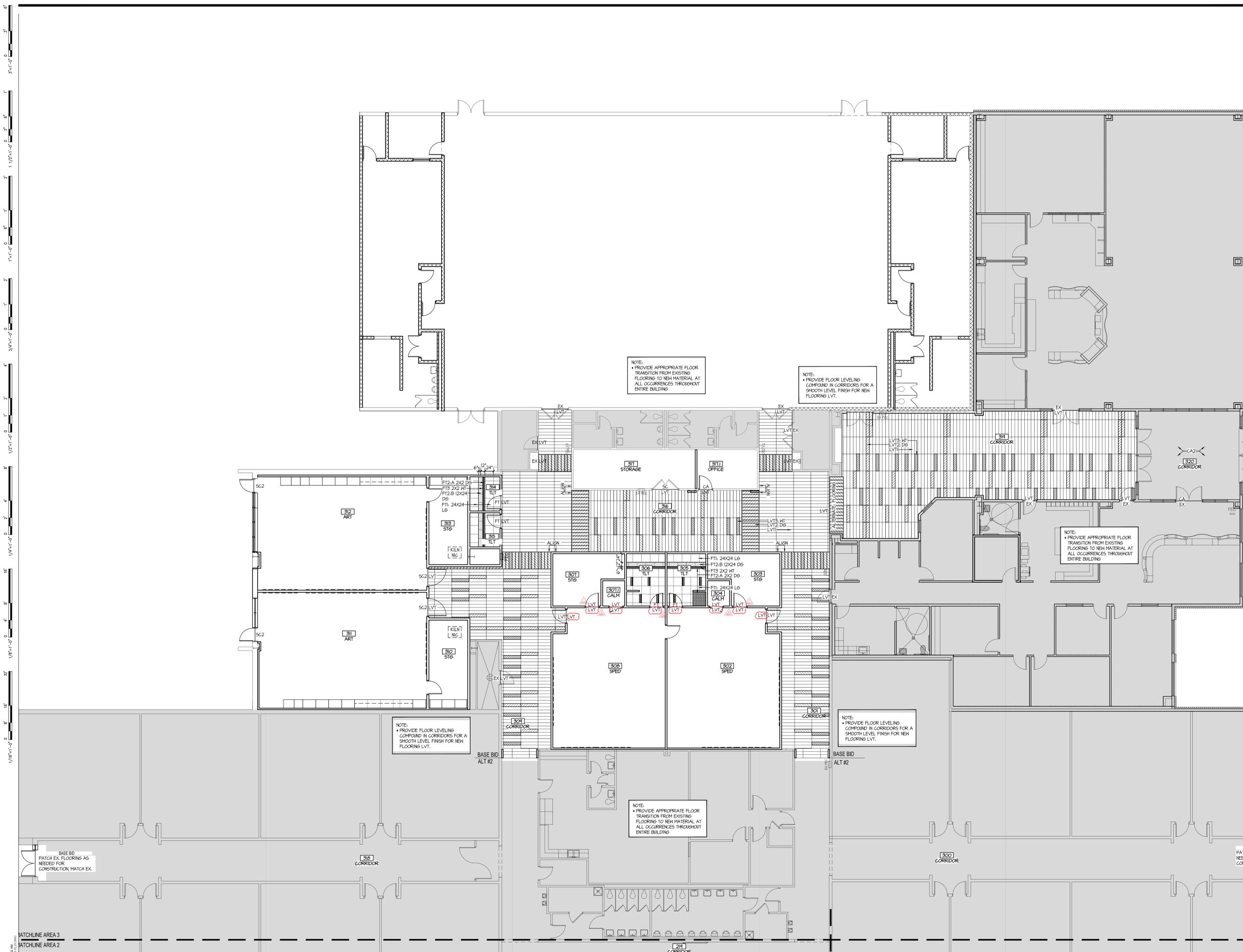
ISSUE DATE

FLOOR PATTERN PLAN  
AREA 3  
BASE BID

AI113

SHEET TITLE

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MATCHLINE AREA 3  
MATCHLINE AREA 2

DATE: 11/25/25  
DRAWN BY: JAC  
CHECKED BY: JAC

FLOOR PATTERN PLAN - AREA 3 - BASE BID  
SCALE: 1/8" = 1'-0"



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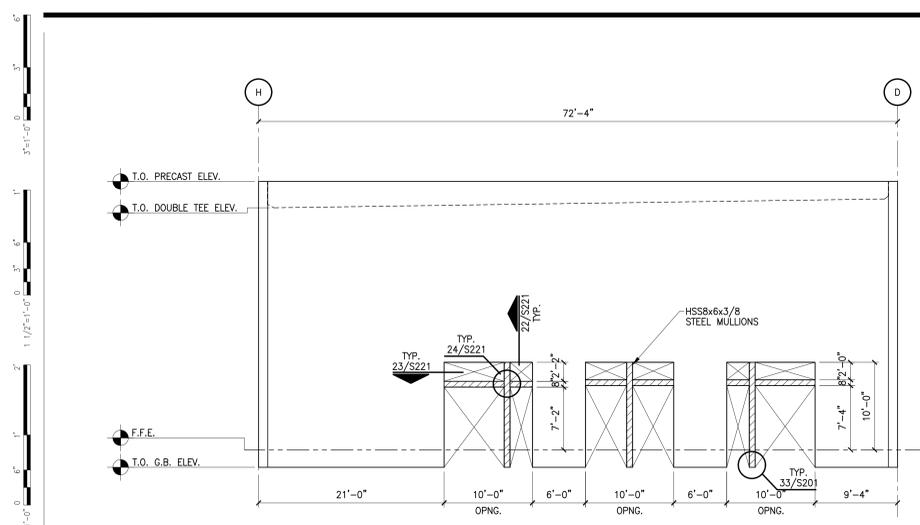
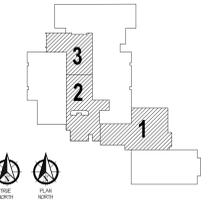


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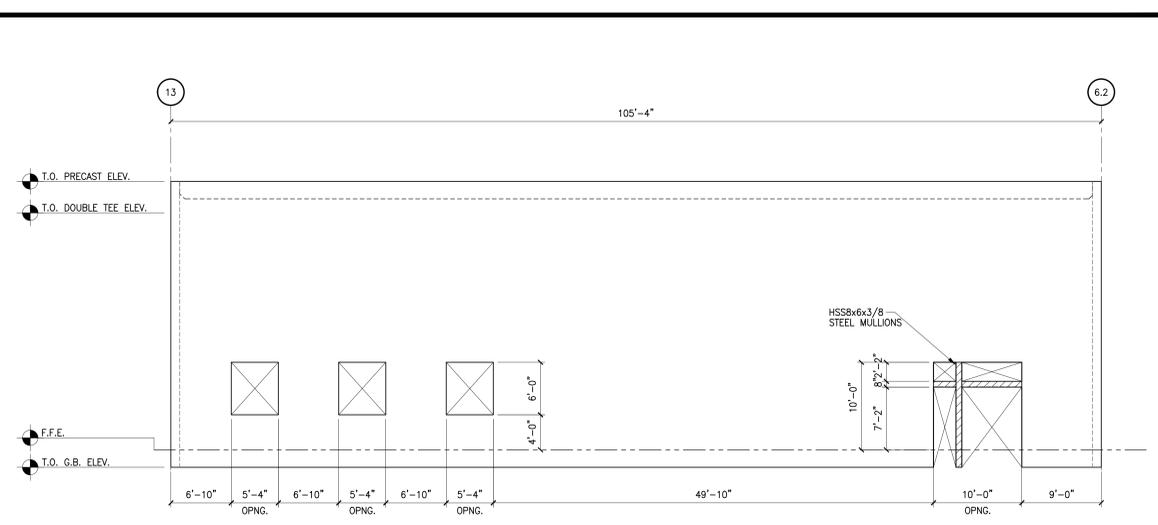
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# OWASSO 8th GRADE ADDITION

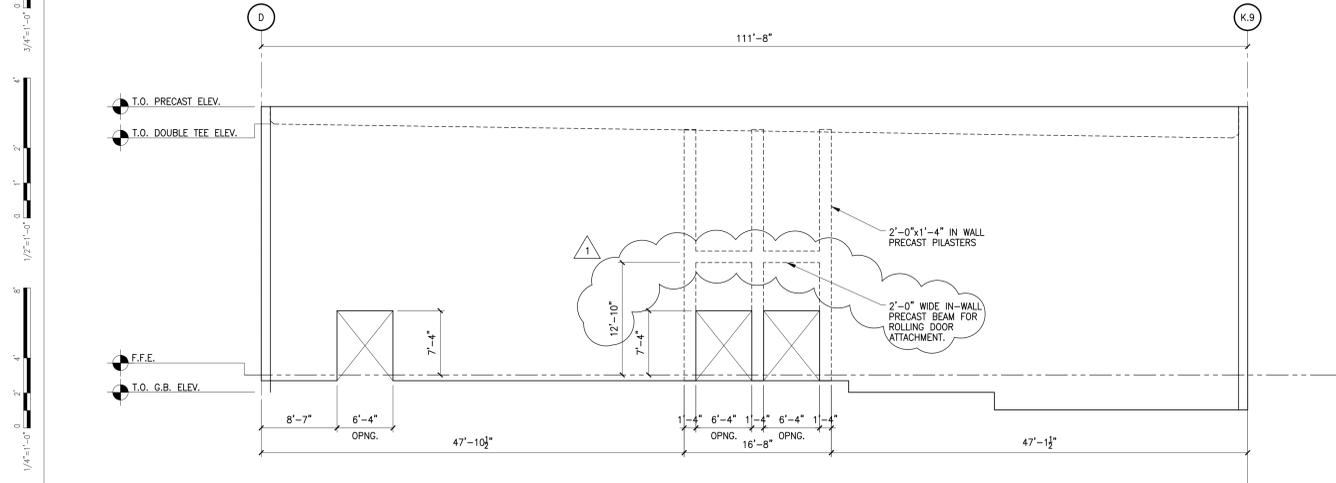
OWASSO PUBLIC  
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OWASSO, OK  
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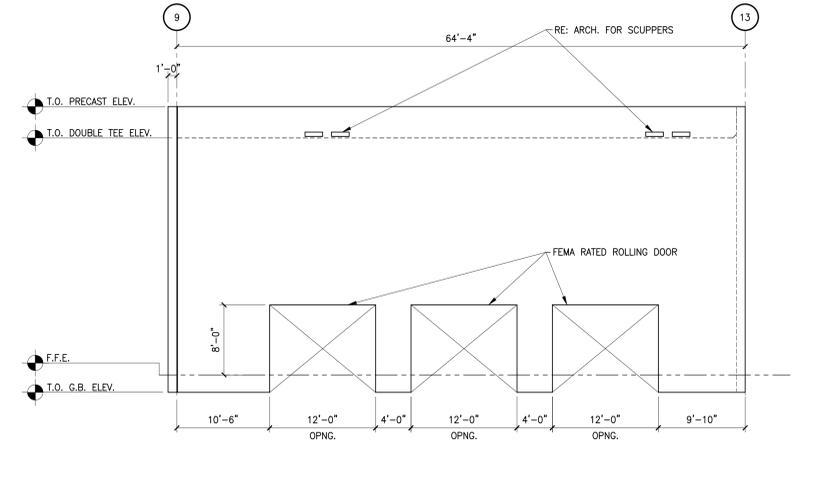
11 PANEL EXTERIOR ELEVATION - GRIDLINES 13  
1/8" = 1'-0"



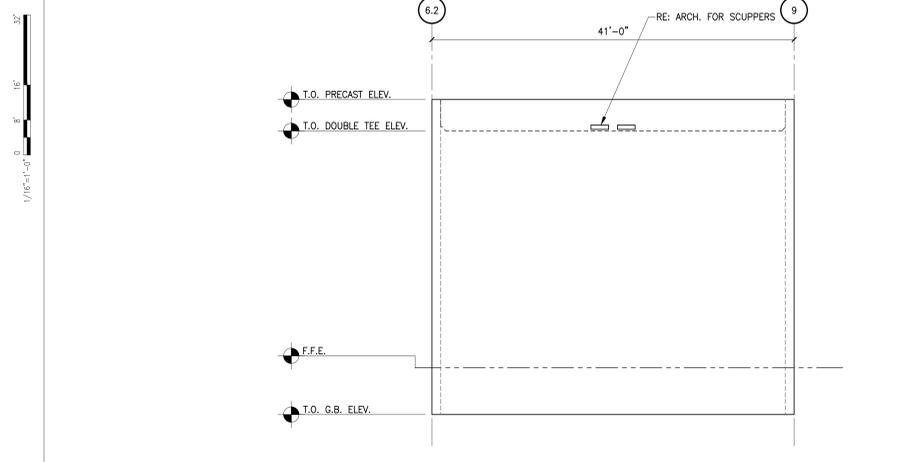
12 PANEL EXTERIOR ELEVATION - GRIDLINE D  
1/8" = 1'-0"



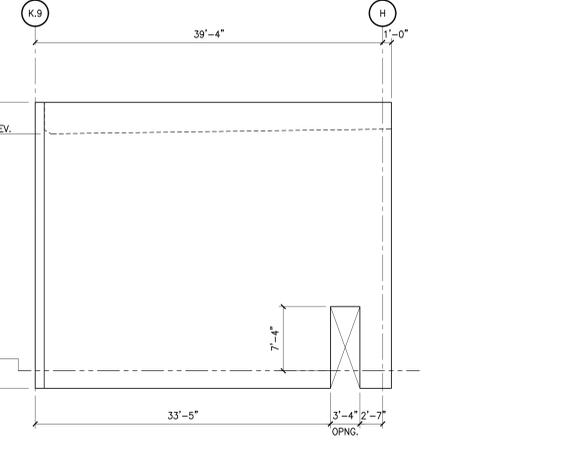
21 PANEL EXTERIOR ELEVATION - GRIDLINE 6.2  
1/8" = 1'-0"



22 PANEL EXTERIOR ELEVATION - GRIDLINE H  
1/8" = 1'-0"



31 PANEL EXTERIOR ELEVATION - GRIDLINE K.9  
1/8" = 1'-0"



32 PANEL EXTERIOR ELEVATION - GRIDLINE 9  
1/8" = 1'-0"

- PANEL ELEVATION NOTES:
- GENERAL CONTRACTOR AND PRECAST MANUFACTURER TO COORDINATE AND VERIFY ALL OPENING LOCATIONS AND SIZES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND WITH ACTUAL EQUIPMENT PURCHASED.
  - RE: ARCH, MEP FOR OPENING DIMENSIONS AND LOCATIONS.
  - RE: S221 FOR OPENING PROTECTION.
  - THE INSTALLATION OF ITEMS IN THE PRECAST CONCRETE PANELS, AT THE PERIMETER OF THE GYMNASIUM, SHALL BE COORDINATED WITH ALL ENTITIES INVOLVED PRIOR TO THE PANEL BUILD SO THAT THERE ARE NO EXPOSED CONDUITS (ELECTRICAL AND LIGHTING).
  - PRECAST MANUFACTURER TO SUBMIT PANEL JOINT LAYOUT FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO PRECAST SUBMITTAL REVIEW.
  - PRECAST MANUFACTURER SHALL COORDINATE EMBEDS FOR FEMA RATED DOORS, WINDOWS, AND LOUVERS WITH COMPONENT MANUFACTURERS.
  - PRECAST MANUFACTURER SHALL COORDINATE CONNECTION LAYOUT BETWEEN ALL ELEMENTS WITH ARCHITECT.
  - PANEL LIFTING INSERTS SHALL BE LOCATED ON THE EXTERIOR SIDE OF THE WALL PANELS UNLESS OTHERWISE APPROVED BY ARCHITECT.
  - JOINTS BETWEEN PRECAST WALL PANELS GREATER THAN 3/8" IN WIDTH SHALL BE PROTECTED BY STEEL OR ANOTHER METHOD OTHER THAN CAULKED JOINT PER ICC 500 (2014) 306.8.
  - GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS IN SHELTER ENVELOPE PRIOR TO PRECAST SUBMITTAL APPROVAL. COORDINATION SHALL INCLUDE OPENING SIZES, LOCATIONS, AND VERIFICATION THAT DUCT/ PIPE TURNS FIT WITHIN SCHEDULES ON S221.
  - PRECAST MANUFACTURER SHALL CONFIRM OPENING LOCATIONS WITH STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION FOR SHROUD APPROVAL.
  - ALL PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER OR WIDTH SHALL BE PROTECTED AS SHOWN ON THE DETAILS ON S220. SIZE OF OPENINGS SHALL BE KEPT TO A MINIMUM SIZE AS REQUIRED TO ALLOW THE UTILITIES TO PASS THROUGH THE WALL OR ROOF. THE PIPE OR DUCT SHALL BE TURNED 90 DEGREES AS SOON AS THE UTILITY PENETRATES THE SHELTER ENVELOPE AS SHOWN ON THE MEP PLANS. IF SIZE DIMENSION OR LOCATION OF OPENINGS IN THE SHELTER ENVELOPE AND PIPE AND DUCT SIZES CHANGE FROM THE INFORMATION SUPPLIED ON THE MEP DRAWINGS AND THE DETAILS ON S220, NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION, ADDITIONAL CHANGES MAY BE REQUIRED.

1 ADD #2 03/17/26

11.25.25

## PRECAST PANEL ELEVATIONS

S007  
SHEET TITLE





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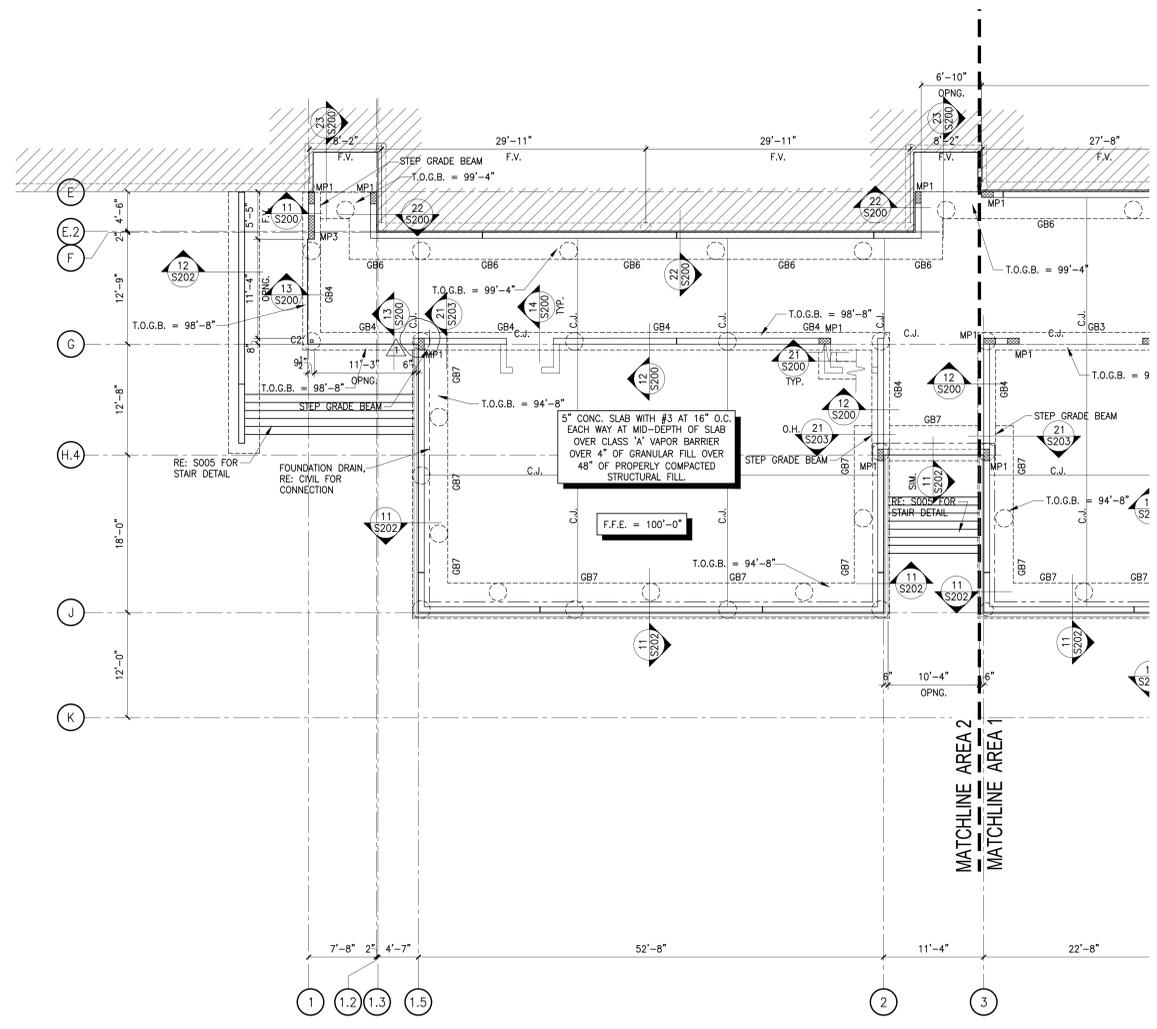
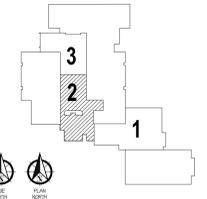


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- PLAN NOTES:**
- RE: S001-S005 FOR GENERAL NOTES, SCHEDULES AND DETAILS.
  - RE: S006, S007 FOR GENERAL INFORMATION REGARDING SHELTER.
  - SLOPE SLAB TO DRAINS AS REQ'D, RE: ARCH.
  - VERIFY ALL WALL OPENING AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. NOT ALL OPENINGS ARE DIMENSIONED.
  - DO NOT LOCATE SLAB CONSTRUCTION JOINTS IN AREAS THAT RECEIVE TILE.
  - RE: S005 FOR TYP. RE-ENTRANT CORNER DETAIL AT RE-ENTRANT CORNERS AND DOOR OPENINGS, TYP.
  - RE: S005 FOR STEP FOOTING DETAIL.
  - RE: 41 AND 42/S200 FOR PLUMBING PENETRATIONS AT OR BELOW FOUNDATION STEMWALL.
  - RE: 43 AND 44/S200 FOR EXISTING SLAB REPLACEMENT DETAILS, RE: ARCH AND MEP FOR LOCATIONS.
  - DO NOT PENETRATE FOUNDATIONS AT SHELTER WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. NOTIFY STRUCTURAL ENGINEER OF RECORD OF ALL POTENTIAL SLEEVES THROUGH FOUNDATION FOR REVIEW.
  - RE: 11/S203 FOR DUMPSTER ENCLOSURE, RE: ARCH. AND CIVIL FOR LOCATION.

**FOUNDATION PLAN - AREA 2**  
SCALE: 1/8" = 1'-0"

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## FOUNDATION PLAN AREA 2

**S102**

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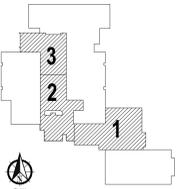
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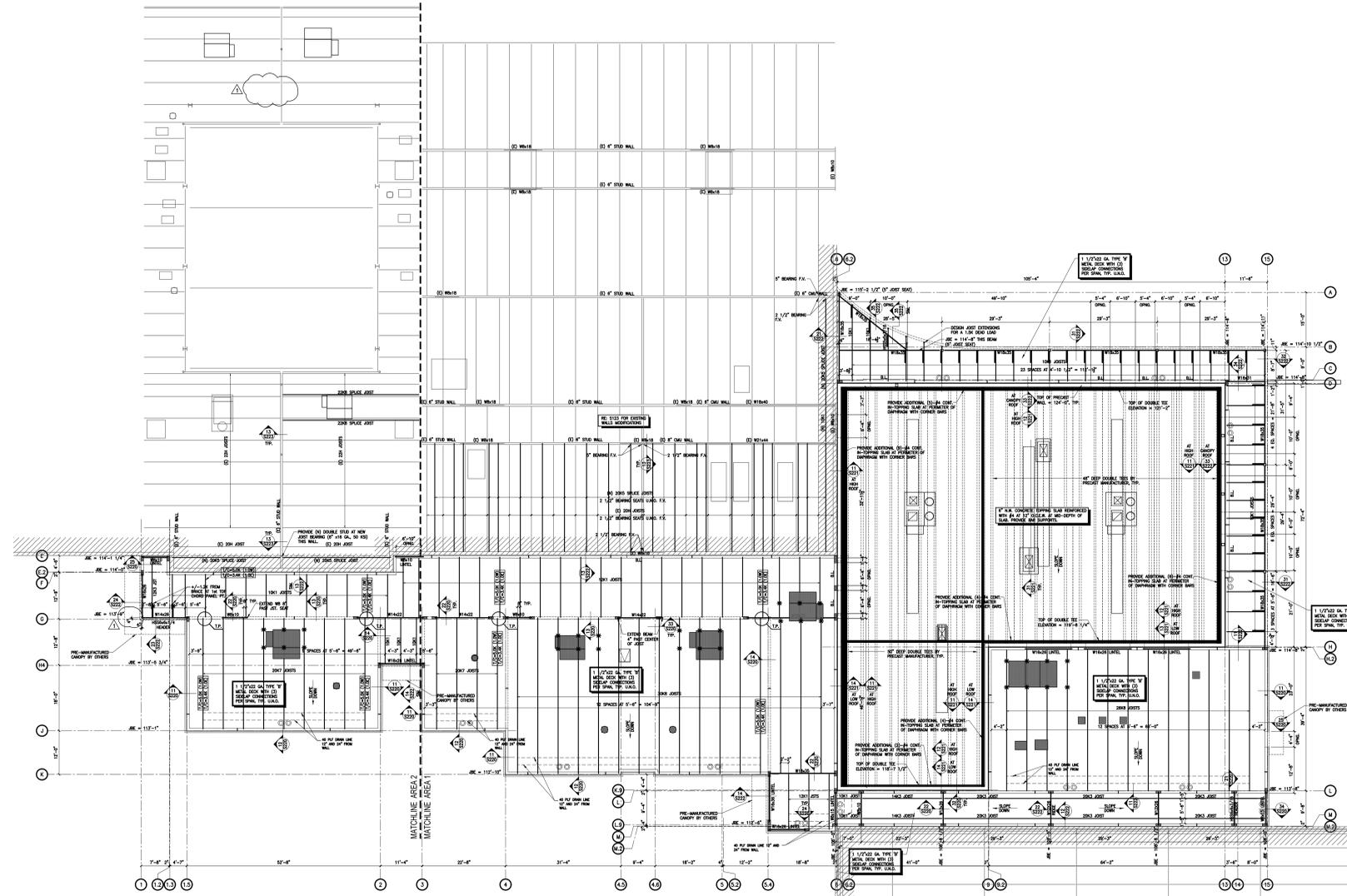
PROJECT



KEY PLAN

MATCHLINE AREA 3  
MATCHLINE AREA 2

MATCHLINE AREA 3  
MATCHLINE AREA 1



OVERALL ROOF FRAMING PLAN  
SCALE: 1/32" = 1'-0"

ADD #2 03/17/26

11.25.25

REVISIONS

ISSUE DATE

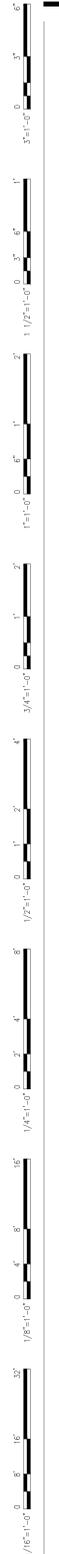
2/18/25 PROJECT NO.  
TBS DRAWN BY  
GCM CHECKED BY

OVERALL  
ROOF FRAMING PLAN

S120

SHEET TITLE

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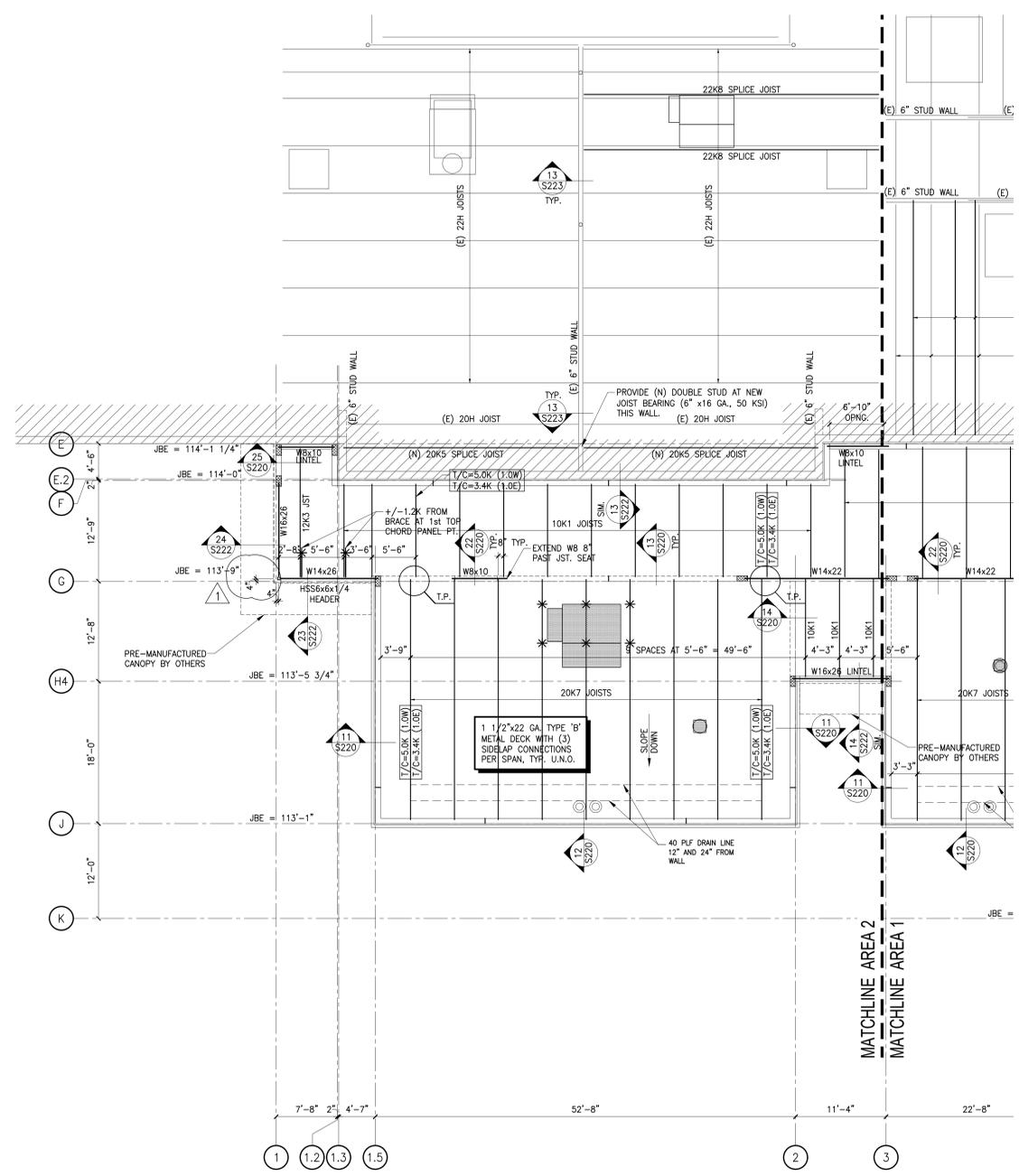
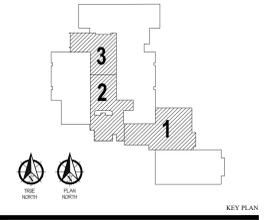


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- PLAN NOTES:**
- RE: S001-S005 FOR GENERAL NOTES AND SCHEDULES.
  - RE: S006-S007 FOR GENERAL INFORMATION REGARDING SHELTER.
  - PROVIDE 2 1/2" JOIST SEATS AT K-SERIES JOISTS U.N.O. RE: PLAN.
  - DESIGN ALL JOISTS FOR PUBLISHED UNIFORM GRAVITY LOADS IN ADDITION TO ANY POINT LOADS, SEAT ROLLER FORCES, AND/OR ADDITIONAL UNIFORM LOADS SHOWN ON PLAN OR DETAILS.
  - RE: RTU AND ROOF OPENING DETAIL ON S003 FOR ANGLE FRAME SUPPORTS AT RTU'S.
  - JOIST MANUFACTURER: DESIGN JOISTS FOR POINT LOAD FROM ROOF DRAIN PIPE.
  - RE: STEEL JOIST NOTE 5 ON S001 FOR DRAIN LINE SERVICE LOAD. RE: MECHANICAL FOR LOCATIONS.
  - JOIST MANUFACTURER:  
T/C = [ ] INDICATES A TENSION OR COMPRESSION LOAD IN THE TOP CHORD OF THE JOIST DUE TO WIND OR SEISMIC LOADS. A 1/3 STRESS INCREASE IS NOT ALLOWED. LOAD = xxxKIP/xxxKIP = 1.0W/1.0E.  
R = 31/S220 FOR BRACING AT TOP OF INTERIOR MASONRY PARTITION WALLS.
  - RE: ARCH FOR ROOF HATCH LOCATION.
  - FOR MECH., ELEC., PLUMBING OPENINGS IN CMU GREATER THAN 8" WIDE, REINFORCING SHALL BE PROVIDED PER LINTEL AND JAMB SCHEDULE ON S004. OPENINGS IN CMU SHALL AVOID DISRUPTING WALL REINFORCING. IF OPENING CANNOT BE LOCATED TO AVOID WALL REINFORCING, CONTACT THE ENGINEER OF RECORD TO DETERMINE WHAT SHOULD BE DONE.
  - "T.P." INDICATES TIE PLATE. RE: 15/S222 FOR SIZE AND WELDS.
  - JOIST MANUFACTURER NOTE: DESIGN JOIST FOR 1.0K DEAD GRAVITY LOAD AT EACH \*.
  - JOIST MANUFACTURER NOTE: DESIGN JOIST FOR ±0.4K (1.0W) LOAD AT EACH \*.
  - JOIST MANUFACTURER NOTE: ALL WIND/SEISMIC LOADS ARE 1.0W/1.0E U.N.O.

1 ADD #2 03/17/26

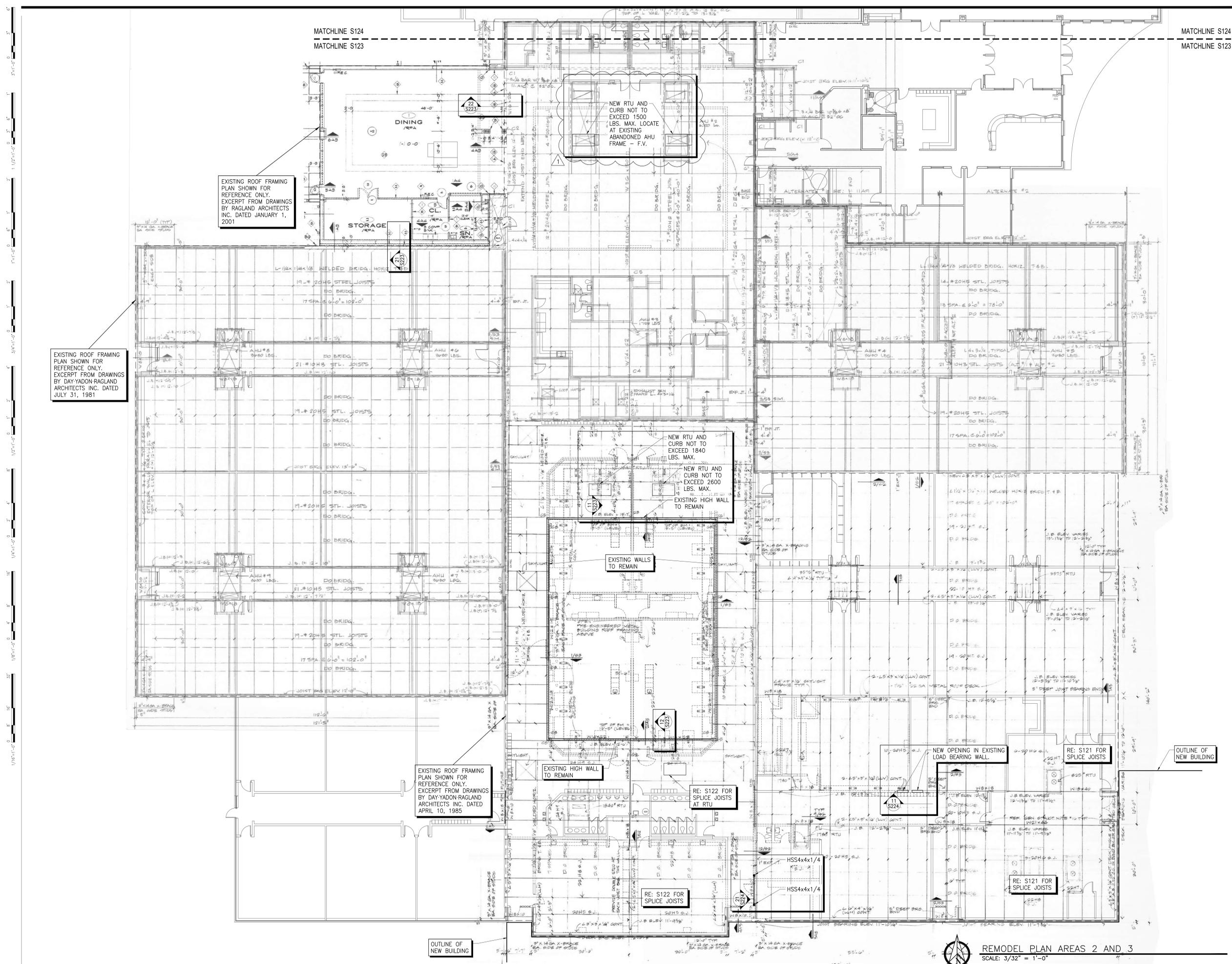
11.25.25

## ROOF FRAMING PLAN AREA 2

S122

ROOF FRAMING PLAN - AREA 2  
SCALE: 1/8" = 1'-0"

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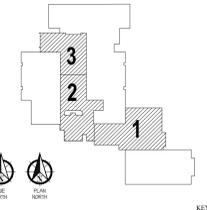


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ADD #2 03/17/26

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REMODEL PLAN  
AREAS 2 AND 3

S123

REMODEL PLAN AREAS 2 AND 3  
SCALE: 3/32" = 1'-0"

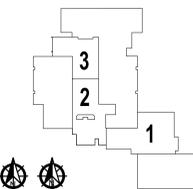
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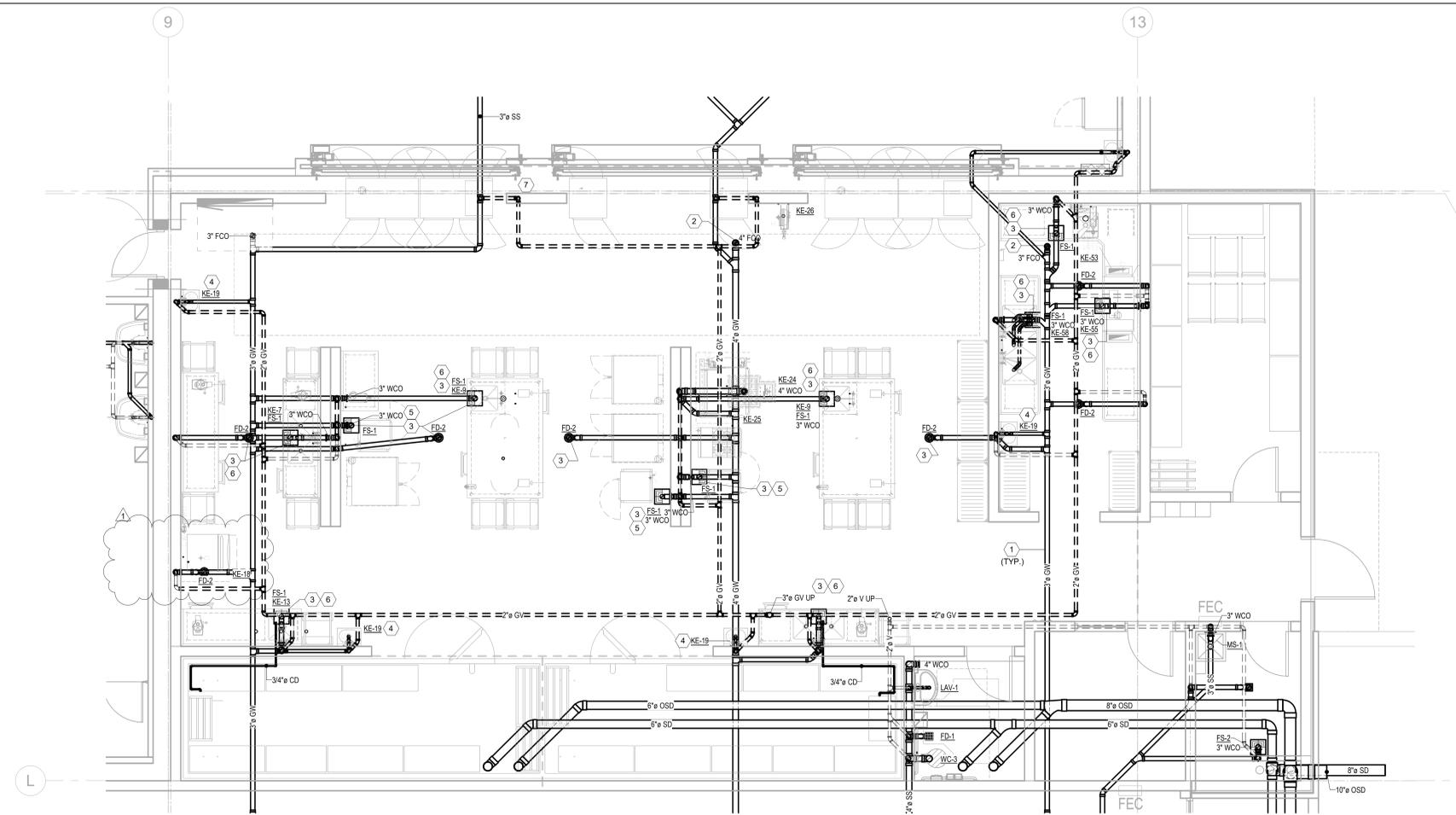
PROJECT



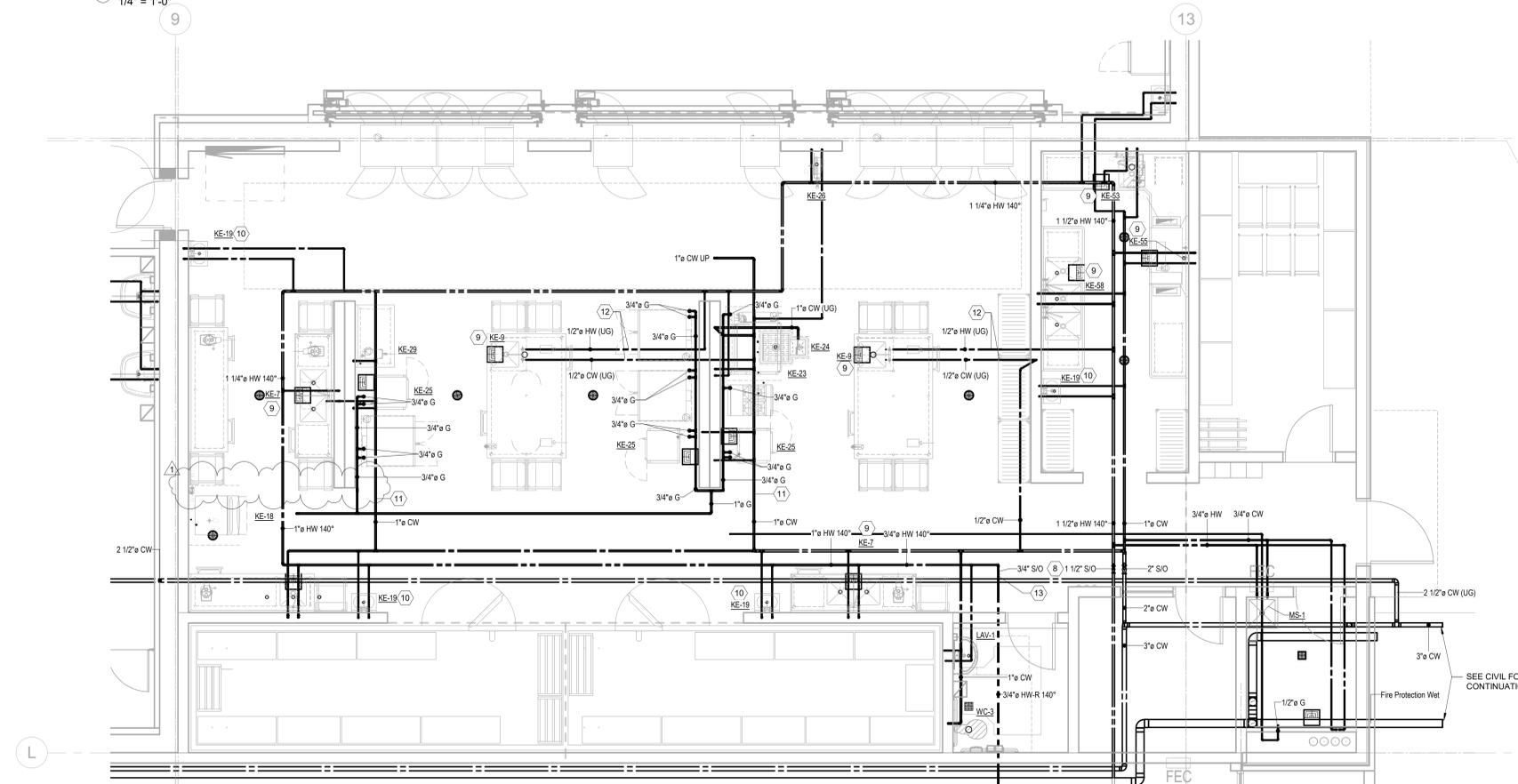
KEY PLAN

KEYNOTES

- 1 PROVIDE ALL WASTE PIPE CAST IRON TO GREASE TRAP.
- 2 PROVIDE FLOOR CLEANOUTS FLUSH WITH FLOOR. LOCATE NO CLOSER THAN 18" TO WALLS OR MILLWORK. COORDINATE FINAL FINISH OF CLEANOUT WITH ARCHITECT AND FLOOR TYPE. TYPICAL THROUGHOUT.
- 3 COORDINATE FINAL LOCATION OF DRAIN RECEPTORS WITH FOOD SERVICE EQUIPMENT PROVIDER. COORDINATE WITH KITCHEN CONSULTANT DRAWINGS. TYPICAL THROUGHOUT.
- 4 HAND SINK PROVIDED BY FOOD SERVICE AND INSTALLED BY PLUMBING. PROVIDE DRAIN TO GREASE WASTE SYSTEM.
- 5 PROVIDE WASTE PIPING FROM KITCHEN EQUIPMENT TO DRAIN RECEPTOR. COORDINATE WITH FOOD SERVICE FOR PIPE MATERIAL AND SIZE. DO NOT COMBINE WASTE PIPING. PROVIDE INSTALLATION AS TO NOT VOID WARRANTY.
- 6 SINK PROVIDED AND INSTALLED BY FOOD SERVICE CONTRACTOR. STRAINER PROVIDED BY FOOD SERVICE CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WASTE PIPING FROM DRAIN CONNECTION TO FLOOR SINK. TERMINATION: PROVIDE 2" AIR GAP. NO EXPOSED VENTING AS POSSIBLE. IF EXPOSED, ALL VENT PIPING SHALL BE CAST IRON. PAINT PER ARCHITECT.
- 8 LOCATE SHUT-OFF VALVES FOR COMPLETE ACCESSIBILITY. PROVIDE 12" BLUE DOT IN CEILING GRID FOR VALVES LOCATED ABOVE CEILING. TYPICAL THROUGHOUT.
- 9 FOOD SERVICE EQUIPMENT AND FAUCETS PROVIDED AND INSTALLED BY FOOD SERVICE CONSULTANT. PLUMBING CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES AND RUN OUT PIPING TO FOOD SERVICE FAUCETS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
- 10 HAND SINK PROVIDED BY FOOD SERVICE CONTRACTOR TO BE INSTALLED BY PLUMBING CONTRACTOR. PROVIDE THERMOSTATIC MIXING VALVE EQUIVALENT TO WATTS LFUSG-B. PROVIDE RUN-OUT PIPING AND SHUT-OFF VALVES. INSULATE ALL WATER PIPES. LOCATE ROUGH-IN AT 2' AFF.
- 11 DROP WATER COLD WATER IN WALL. ROUTE HORIZONTALLY AT 12" AFF TO SERVE FIXTURES. VERIFY FIXTURE LOCATIONS AND TYPES WITH FOOD SERVICE. ROUTE HORIZONTAL WATER BELOW ANY ELECTRICAL RECEPTACLES OR CONDUITS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
- 12 WATER PIPE ROUTED UNDER SLAB TO FOOD SERVICE EQUIPMENT. LOCATE ROUGH-IN AT 2' AFF. PROVIDE BELOW SLAB PIPING TYPE K COPPER OR PEX. NO JOINTS BELOW SLAB. SLEEVE AND SEAL ALL SLAB PENETRATIONS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
- 13 PROVIDE CIRCUIT SETTING BALANCE VALVE IN HOT WATER RECIRCULATION PIPE.



DWV PLUMBING PLAN - ENLARGED  
KITCHEN  
1/4" = 1'-0"



DOMESTIC PLUMBING PLAN - ENLARGED KITCHEN  
1/4" = 1'-0"

NO.	DESCRIPTION	DATE
1	ADDENDUM 02	03/17/26

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ISSUE DATE

PLUMBING PLAN - ENLARGED KITCHEN

P200

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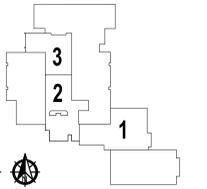
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KEY PLAN

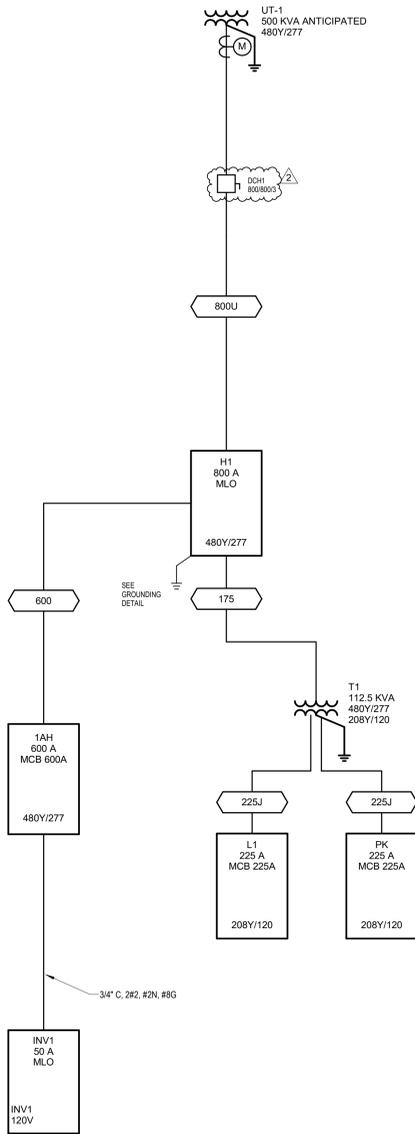
DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER		TRANSFORMER		FAULT AT PRIMARY
				SIZE	LENGTH	KVA	Z%	
DCH1	10,038	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	445'			
UT-1	111,24,195 III	22,000 AMPS SYMMETRICAL	480V	12.40W		500	2.5	UTILITY
PK	7,942	10,000 AMPS SYMMETRICAL	208V	4/0	113'			
L1	13,687	22,000 AMPS SYMMETRICAL	208V	4/0	16'			
T1	15,261	22,000 AMPS SYMMETRICAL	480V	2/0	19'	112.5	2	130,961
1AH	111,92,703 III	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	110'			
1AH	12,013	22,000 AMPS SYMMETRICAL	480V			75	1.75	UTILITY

CALLOUT	PHASE	VOLTAGE	CIRCUIT		WIRE CALLOUT	LOAD			AVAILABLE FAULT CURRENT	DISCONNECT		NOTES
			PANEL	NUMBER		KVA	FLA	MCA		TYPE	NEMA	
AC-1	1	208 V	(E) PL3	5,7	3/4" C, 2#10, #10G	0.00	0.0 A	0.0 A	513	HARDWIRED	-	
AC-2	1	208 V	L1	32,34	3/4" C, 2#10, #10G	0.00	0.0 A	0.0 A	691	HARDWIRED	-	
CU-1	1	208 V	(E) PL3	5,7	3/4" C, 2#10, #10G	3.56	17.1 A	19 A	513	NON-FUSED	NEMA 3R	
CU-2	1	208 V	L1	32,34	3/4" C, 2#10, #10G	3.56	17.1 A	19 A	691	NON-FUSED	NEMA 3R	
DEF-1	1	120 V	PK	59	3/4" C, 1#12, #12N, #12G	0.52	4.3 A	0 A	702	FUSED	NEMA 3R	
DDMU-1	3	480 V	1AH	38,40,42	1-1/2" C, 3-1/0, #5G	87.36	84 A	105 A	19,393	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
EF-1	1	120 V	L1	38	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-2	1	120 V	L1	38	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-3	1	120 V	L1	42	3/4" C, 1#12, #12N, #12G	0.58	4.8 A	0 A	1,150	TOGGLE SWITCH	-	
EF-4	1	120 V	L1	40	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-5	1	120 V	L1	40	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-6	1	120 V	L1	40	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-7	1	120 V	L1	43	3/4" C, 1#12, #12N, #12G	0.34	2.8 A	4 A	1,544	TOGGLE SWITCH	NEMA 3R	
EF-8	1	120 V	L1	45	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-9	1	120 V	L1	45	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-10	1	120 V	L1	47	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	1,084	TOGGLE SWITCH	NEMA 3R	
EF-11	1	120 V	L1	47	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	1,084	TOGGLE SWITCH	NEMA 3R	
EF-12	1	120 V	(E)7PB	2	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-13	1	120 V	(E)7PB	2	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-14	1	120 V	(E)7PB	2	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-15	1	120 V	(E)7PB	2	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-16	1	120 V	(E)7PB	4	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	0 A	352	TOGGLE SWITCH	-	
EF-17	1	120 V	(E)7PB	4	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	0 A	352	TOGGLE SWITCH	-	
EF-18	1	120 V	(E) PL3	11	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-19	1	120 V	(E) PL3	11	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-20	1	120 V	(E) PL3	11	3/4" C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-21	1	120 V	(E) PL3	11	3/4" C, 1#12, #12N, #12G	0.02	1.5 A	2 A	3,764	TOGGLE SWITCH	-	
EF-22	1	120 V	(E) PL3	14	3/4" C, 1#12, #12N, #12G	0.02	0.0 A	0 A	2,076	TOGGLE SWITCH	-	
EF-23	1	120 V	(E) PL3	14	3/4" C, 1#12, #12N, #12G	0.02	0.0 A	0 A	2,076	TOGGLE SWITCH	-	
KEH-1	3	480 V	1AH	8,10,12	3/4" C, 3#12, #12G	4.99	6 A	0 A	1,178	FUSED	NEMA 3R	
KEH-2	3	480 V	1AH	13,15,17	3/4" C, 3#12, #12G	4.99	6 A	0 A	1,417	FUSED	NEMA 3R	
KEH-3	3	480 V	1AH	14,16,18	3/4" C, 3#12, #12G	4.99	6 A	0 A	1,269	FUSED	NEMA 3R	
RTU-4	3	480 V	(E)1P	21,23,25	3/4" C, 3#12, #12G	11.31	13.6 A	17 A	1,973	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-5	3	480 V	(E)1P	20,22,24	3/4" C, 3#12, #12G	10.65	12.8 A	16 A	1,440	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-13	3	480 V	H1	7.9,11	3/4" C, 3#10, #10G	17.96	23.4 A	26 A	811	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-14	3	480 V	H1	2,4,6	3/4" C, 3#8, #10G	27.71	33.3 A	37 A	2,151	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-27	3	480 V	1AH	19,21,23	3/4" C, 3#10, #10G	17.96	23.4 A	26 A	814	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-28	3	480 V	1AH	26,28,30	3/4" C, 3#8, #10G	27.71	33.3 A	37 A	2,635	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-29	3	480 V	1AH	20,22,24	3/4" C, 3#8, #10G	20.22	23 A	26 A	2,565	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-30	3	480 V	1AH	31,33,35	3/4" C, 3#8, #10G	27.71	33.3 A	37 A	5,459	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-31	3	480 V	1AH	25,27,29	3/4" C, 3#8, #10G	20.22	24.3 A	27 A	4,230	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-32	3	480 V	1AH	32,34,36	1-1/4" C, 3#2, #5G	48.57	63.9 A	71 A	10,983	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-33	3	480 V	1AH	37,39,41	1-1/4" C, 3#2, #5G	48.57	63.9 A	71 A	7,806	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
SLV-1	1	120 V	INV1	5	3/4" C, 1#12, #12N, #12G	0.01	16 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER. COORDINATE W/MECH CONTRACTOR
SLV-2	1	120 V	INV1	5	3/4" C, 1#12, #12N, #12G	0.01	16 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER. COORDINATE W/MECH CONTRACTOR
SVF-1	1	120 V	INV1	7	3/4" C, 1#10, #10N, #10G	1.56	13 A	21 A	743	NON-FUSED	-	
SVF-2	1	120 V	INV1	8	3/4" C, 1#10, #10N, #10G	1.56	13 A	21 A	612	NON-FUSED	-	
SVF-3	1	120 V	INV1	6	3/4" C, 1#12, #12N, #12G	0.46	3.8 A	5 A	3,376	NON-FUSED	-	
WH-1	1	120 V	L1	9	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	675	GFCI RECEPTACLE	-	
WH-2	1	120 V	L1	9	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	675	GFCI RECEPTACLE	-	
WH-3	1	120 V	(E) PL3	9	3/4" C, 1#12, #12N, #12G	0.18	1.5 A	2 A	730	GFCI RECEPTACLE	-	

**MECHANICAL SCHEDULE NOTE**  
A. REF MECHANICAL PLANS FOR ADDITIONAL INFORMATION. PROVIDE REVISED EQUIPMENT  
B. SIZE FUSES PER MANUFACTURED RECOMMENDATIONS  
C. COORDINATE FINAL REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT. PROVIDE UPDATED EQUIPMENT SELECTIONS, BREAKERS, AND/OR CONDUCTOR SIZES BASED UPON DEVIATIONS FROM BASIS OF DESIGN. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO SUBMITTING SUBMITTALS.  
COORDINATE LOCATION PRIOR TO ROUGH-IN.

**ONE-LINE NOTES**  
A. CIRCUIT BREAKERS SHALL BE 3-POLE AND 80% RATED UNLESS NOTED OTHERWISE.  
B. FEEDER SIZING METHOD: COPPER, 60C #12 THROUGH #1, 75C #10 AND ABOVE IN EMT.

FEEDER SCHEDULE	
175	2" C, 3-20, 20N, #5G
225J	2-1/2" C, 3-40, 40N, #2G
600	(2)3" C, 3-350kcmil, 350kcmil N, #10
800U	(3)3-1/2" C, 3-300kcmil, 300kcmil N



1 ONE-LINE DIAGRAM  
SCALE: NOT TO SCALE

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	03/02/25
2	ADDENDUM 02	03/17/25

11.25.2025

## ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

E002



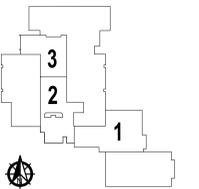
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# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT



KEY PLAN

LIGHTING CONTROL SCHEDULE										
ROOM NUMBER	ROOM NAME	LIGHTING CONTROL ON	LIGHTING CONTROL OFF	SENSOR TYPE	SENSOR TIMEOUT (MIN)	DIMMING PERCENTAGE	TIMECLOCK INTEGRATION	TIMECLOCK OVERRIDE	REMARKS	
<varies>	ART	MANUAL	MANUAL							
135	BLACKBOX	MANUAL	MANUAL							
<varies>	BOYS	OCCUPANCY	KEYED MANUAL	DUAL TECH	30				KEYED	
130	BREAKOUT	MANUAL	MANUAL							
<varies>	CALM	MANUAL	MANUAL							
<varies>	CHEMICAL	MANUAL	MANUAL							
208	CHOR	MANUAL	MANUAL							
101	COMMONS	MANUAL	MANUAL							
111	COOLER	MANUAL	MANUAL							
<varies>	CORRIDOR	MANUAL	MANUAL							
104	DISH WASH	MANUAL	MANUAL							
105	DRY STORAGE	MANUAL	MANUAL							
125	ELEC.	MANUAL	MANUAL						KEYED	
131	ELECTRICAL	MANUAL	MANUAL						KEYED	
112	FREEZER	OCCUPANCY	OCCUPANCY	DUAL TECH	15					
<varies>	GIRLS	OCCUPANCY	KEYED MANUAL	DUAL TECH	30				KEYED	
119	INVERTER	MANUAL	MANUAL							
216	IT	MANUAL	MANUAL							
<varies>	JANITOR	MANUAL	MANUAL							
110	KITCHEN	MANUAL	MANUAL							
<varies>	OFFICE	MANUAL	MANUAL							
<varies>	PREP	MANUAL	MANUAL							
120-1	RAMP-1	MANUAL	MANUAL							
120-2	RAMP-2	MANUAL	MANUAL							
<varies>	SCIENCE	MANUAL	MANUAL							
<varies>	SPED	MANUAL	MANUAL							
<varies>	STG	MANUAL	MANUAL							
<varies>	STORAGE	MANUAL	MANUAL							
<varies>	TLT	MANUAL	MANUAL							

**LIGHTING CONTROL NOTES**

- BASIS OF DESIGN: LINE VOLTAGE SWITCHES AND SENSORS. 0-10V DIMMING ONLY WHERE INDICATED. SUBSTITUTIONS ARE WELCOME. NO PRE-APPROVAL REQUIRED. ENGINEER WILL REVIEW ONE LIGHTING CONTROL SUBMITTAL PACKAGE DURING SUBMITTAL PHASE. IF SUBSTITUTIONS ARE DEEMED NOT EQUAL TO SPECIFIED CONTROL SYSTEM, CONTRACTOR SHALL PROVIDE SPECIFIED CONTROL SYSTEM. PROVIDE SHOP DRAWINGS OF DEVICE LAYOUT AS PART OF SUBMITTAL REVIEW.
  - SUBMITTING AGENT SHALL PROVIDE ALL REQUESTED COLOR SAMPLES, WORKING FIXTURE SAMPLES AND/OR SENSOR CALCULATIONS WITHIN 10 DAYS IF REQUESTED FROM THE DESIGN TEAM.
  - THE DESIGN TEAM SHALL RESERVE THE RIGHT TO APPROVE OR REJECT ANY SUBSTITUTED FIXTURE BASED ON ANY OF THE FOLLOWING: AESTHETICS, PERFORMANCE, FEATURES, QUALITY, COST, AND LEAD TIMES.
  - LOCATE LOCAL CONTROL/POWER PACKS FOR EXTERIOR DEVICES ADJACENT TO THE PANEL THE DEVICES ARE FED FROM.
  - REFER TO EMERGENCY LIGHTING CONTROL DETAILS.

SPECIAL RECEPTACLE SCHEDULE						
SUBSCRIPT	NEMA	VOLTS	MANUFACTURER	MODEL	DESCRIPTION	GENERAL NOTES
EWC		<varies>			FEED THROUGH GFCI BREAKER IN PANEL.	COORDINATE LOCATION WITH EQUIPMENT AND MOUNT BEHIND EWC.
FB		120 V/1-380 VA	HUBBELL	GFB4G30CR CFBS1R8CVR**	IN-GRADE BOX 4 GANG FLOOR BOX WITH (2) 5/8" DUPLEX RECEPTACLES AND (2) LOW-VOLTAGE ROUGH-INS	PROVIDE (1) 1-1/2" DATA CONDUIT FROM FLOORBOX TO ACCESSIBLE CEILING VIA MAIN WALL OF ROOM.
SP		<varies>			SMART BOARD PROJECTOR	COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT AND FINAL LOW VOLTAGE TERMINATIONS WITH OWNER.

LIGHTING FIXTURE SCHEDULE										
CALL OUT	LIGHT SOURCE					DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	GENERAL NOTES
	LUMENS	CCT	CRI	VA	VOLT					
A2	2000L	3500K	80CRI	30	277 V	2X2 LED BACKLIT FLAT PANEL	RECESSED	ESL	ESL-CSS-820-22-2030W-4000K	10 YEAR WARRANTY REQUIRED FOR THIS MANUFACTURER.
A4	5000L	3500K	80CRI	38	<varies>	2X4 BACKLIT FLAT PANEL	RECESSED	ESL	ESL-CSS-820-24-3050W-4000K	10 YEAR WARRANTY REQUIRED FOR THIS MANUFACTURER.
D	2000L	3500K	80CRI	20	277 V	DOWNLIGHT	RECESSED	GOTHAM	EV04-40/20-AR-LSS-WD-MVOLT-GZ1	
D2	1500L	4000K	80CRI	14	277 V	DOWNLIGHT - SHOWER	RECESSED	GOTHAM	EV04SH-40/15-AR-LSS-WD-MVOLT-GZ1	
DT	3100	3500K	80CRI	17	277 V	4DR TUNABLE RGBW DOWNLIGHT	RECESSED	GOTHAM	4DR-TL-L31-RGBB-35-DMX-UNV-R-W-OF-CS-N-F1	
E	-	-	-	0	277 V	EXISTING 2X4 LED TROFFER	RECESSED	-	-	EXISTING
EA	-	-	-	10		EMERGENCY LIGHT - 70" O.C. SPACING	WALL MOUNTED	MULE LIGHTING	MRDR-6-12 W SD LED	
M	375L/FT	3500K	80CRI	57	277 V	3' LINEAR UTILITY STRIP, LENSED	SUSPENDED	LUX	E052-0-P-DL-AM-375-XBT-375-12-35K-8-1-UNV-S1-B-HC-42-SF/SC	
N1	-	-	-	36	277 V	WALLPACK	WALL MOUNTED	MIMIK	M30-36-T3-BK-4K-UNV-0-10V	
N2	-	-	-	30	277 V	WALLPACK	WALL MOUNTED	MIMIK	M30-36-T4-BK-4K-UNV-0-10V-REM	
P	375L/FT	3500K	80CRI	57	<varies>	3' LINEAR UTILITY STRIP, LENSED	SUSPENDED	LUX	E052-0-P-DL-AM-375-XBT-375-12-35K-8-1-UNV-S1-B-HC-42-SF/SC	
X1	-	-	-	5	277 V	SINGLE FACE EXIT SIGN	CEILING MOUNTED, RECESSED	EVENLITE	POEL-1-B-RM-BA-U-SD	
X2	-	-	-	5	277 V	DOUBLE FACE EXIT SIGN	CEILING MOUNTED, RECESSED	EVENLITE	POEL-X2-B-RM-BA-U	
XA	-	-	-	5	120 V	SINGLE FACE EXIT SIGN IN SHELTER	CEILING MOUNTED, RECESSED	EVENLITE	POEL-1-B-RM-BA-U-SD	

**LIGHTING FIXTURE NOTES**

- SPECIFIED FIXTURES INDICATE DESIGN INTENT. SUBSTITUTIONS ARE WELCOME. NO PRE-APPROVAL REQUIRED. ENGINEER WILL REVIEW ONE LIGHTING SUBMITTAL PACKAGE DURING SUBMITTAL PHASE. IF SUBSTITUTIONS ARE DEEMED NOT EQUAL TO SPECIFIED FIXTURE, CONTRACTOR SHALL PROVIDE SPECIFIED FIXTURE.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL LIGHTING INFORMATION - ELEVATIONS, CEILING HEIGHTS, CEILING TYPES, DETAILS, ETC.

Inverter: INV1					
Location:	INVERTER 119	Volts:	480V 1PH IN/120V OUT	A.I.C. Rating:	10,000 AMPS SYMMETRICAL
Supply From:	1AH	Phases:	1	Mains Type:	MLO
Mounting:	SURFACE	Wires:	2	Bus Amps:	100
Enclosure:	NEMA 1	Runtime:	120 MINUTES	MCB Rating:	MLO
<b>Notes:</b>					
BASIS OF DESIGN: MYERS Z (480 - 120)-E-9-S-R120-2YW-TR *OUTPUT BREAKERS PER SCHEDULE					
CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	L - INVERTER 119, STORAGE, RESTROOMS	1	20 A	494	
2	L - COMMONS 101	1	20 A	603	
3	L - COMMONS 101	1	20 A	742	
4	IT 101	1	20 A	1500	
5	SLV-1, SLV-2	1	15 A	20	
6	SVF-3	1	15 A	456	
7	SVF-1	1	25 A	1560	
8	SVF-2	1	25 A	1560	
9	SPARE	1	20 A	0	
10	SPARE	1	20 A	0	
11	SPACE ONLY	1	--	--	
12	SPACE ONLY	1	--	--	
				8935 VA	
				58 A	
Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Motor	3596 VA	110.85%	3986 VA		
Lighting	1839 VA	125%	2299 VA		
Power	1500 VA	100%	1500 VA		
				Total Conn. Load:	8935 VA
				Total Est. Demand:	7785 VA
				Total Conn.:	58 A
				Total Est. Demand:	65 A
<b>Notes:</b>					
PROVIDE ONE UL924 SHUNT DEVICE PER CONTROL ZONE. SEE EMERGENCY LIGHTING CONTROL DETAIL. PROVIDE FIRE SPRINKLER DRIP GUARD PER MANUFACTURER'S REQUIREMENTS.					

ICC 500 RELAY PANEL				
RELAY	UNITS	AREA(S) CONTROLLED	CIRCUIT	CONTROL SCENARIO
1	SVF-1	COMMONS	INV1-7	B
2	SVF-2	COMMONS	INV1-8	B
3	SLV-1 & SLV-2	COMMONS	INV1-12	A
4	SVF-3	INVERTER 119	PF-50	C
5	--	--	--	--
6	--	--	--	--
7	--	--	--	--
8	--	--	--	--

- GENERAL NOTES:**
- BASIS OF DESIGN CONTROL PANEL IS HUBBELL CX.
  - COORDINATE ALL SETTINGS WITH ICC500 AND MECHANICAL CONTRACTOR PRIOR TO PROGRAMMING.
  - SEE PLANS FOR OVERRIDE SWITCHES. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.

- CONTROL SCENARIOS:**
- ON/OFF VIA ICC500 OVERRIDE SWITCH
  - ON/OFF VIA ICC500 OVERRIDE SWITCH, 5 SECOND DELAY
  - ON/OFF VIA THERMOSTAT

NO.	DESCRIPTION	DATE
2	ADDENDUM 02	03/17/26

REVISIONS

11.25.2025

ISSUE DATE

2021 PROJECT NO  
A.BAH  
REL

## ELECTRICAL SCHEDULES

E004

SHEET TITLE

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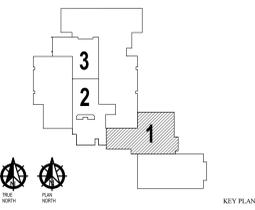
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**BASE BID**  
**OWASSO**  
**8th GRADE**  
**ADDITION**

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT

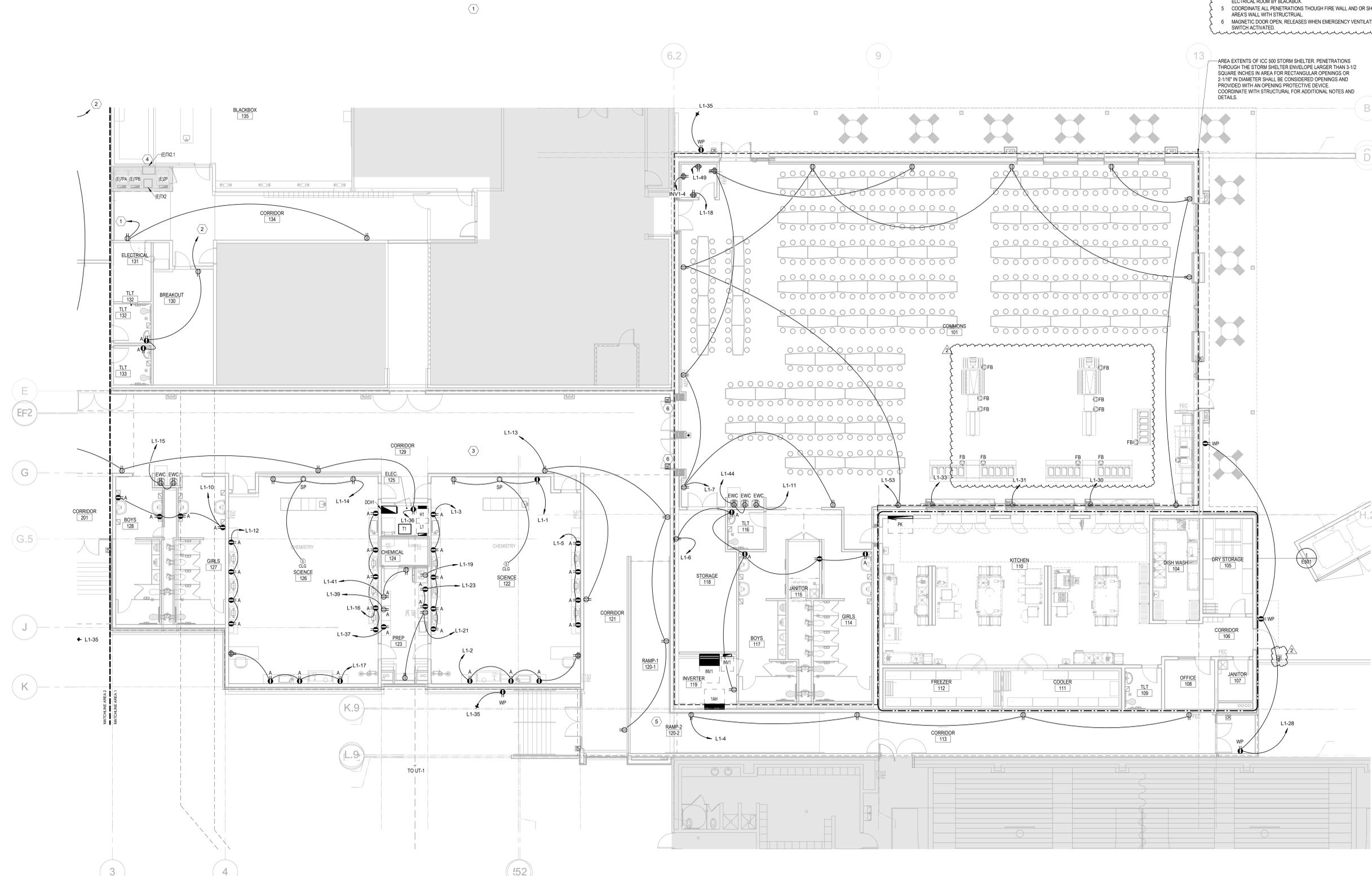


KEY PLAN

**EMERGENCY VENTILATION ACTIVATION PROCEDURE:**  
ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:  
1. RTU-32 AND RTU-33 TO DEENERGIZE  
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.  
3. SVF-1 & SVF-2 TO ENERGIZE  
SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS TWISTED TO RESET:  
1. SVF-1 & SVF-2 TO DEENERGIZE  
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY CLOSE  
3. RTU-32 AND RTU-33 TO ENERGIZE PER THEIR SET POINTS  
PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. PROVIDE STI SS2179PQ-EN STI INDOOR/OUTDOOR SURFACE TURN-TO-RESET (ILLUMINATED) STOPPER STATION (OR EQUAL), COORDINATE WITH ARCHITECTURAL FOR EXACT MOUNTING LOCATION, COLOR, AND LETTERINGS OPTIONS.

**POWER PLAN NOTES**  
A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4" AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.  
**KEYNOTES**  
1. REPLACE EXISTING DEVICES WITH NEW AND NEW FACE PLATES.  
2. UTILIZE EXISTING CIRCUIT IN ALL ROOMS.  
3. COORDINATE WITH SCIENCE FIXTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS.  
4. COORDINATE AS NEEDED TO REPLACE NOISY TRANSFORMER IN EXISTING ELECTRICAL ROOM BY BLACKBOX.  
5. COORDINATE ALL PENETRATIONS THROUGH FIRE WALL AND OR SHELTER AREA'S WALL WITH STRUCTURAL.  
6. MAGNETIC DOOR OPEN, RELEASES WHEN EMERGENCY VENTILATION SWITCH ACTIVATED.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/8" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



**1 POWER PLAN - AREA 1**  
SCALE: 1/8" = 1'-0"

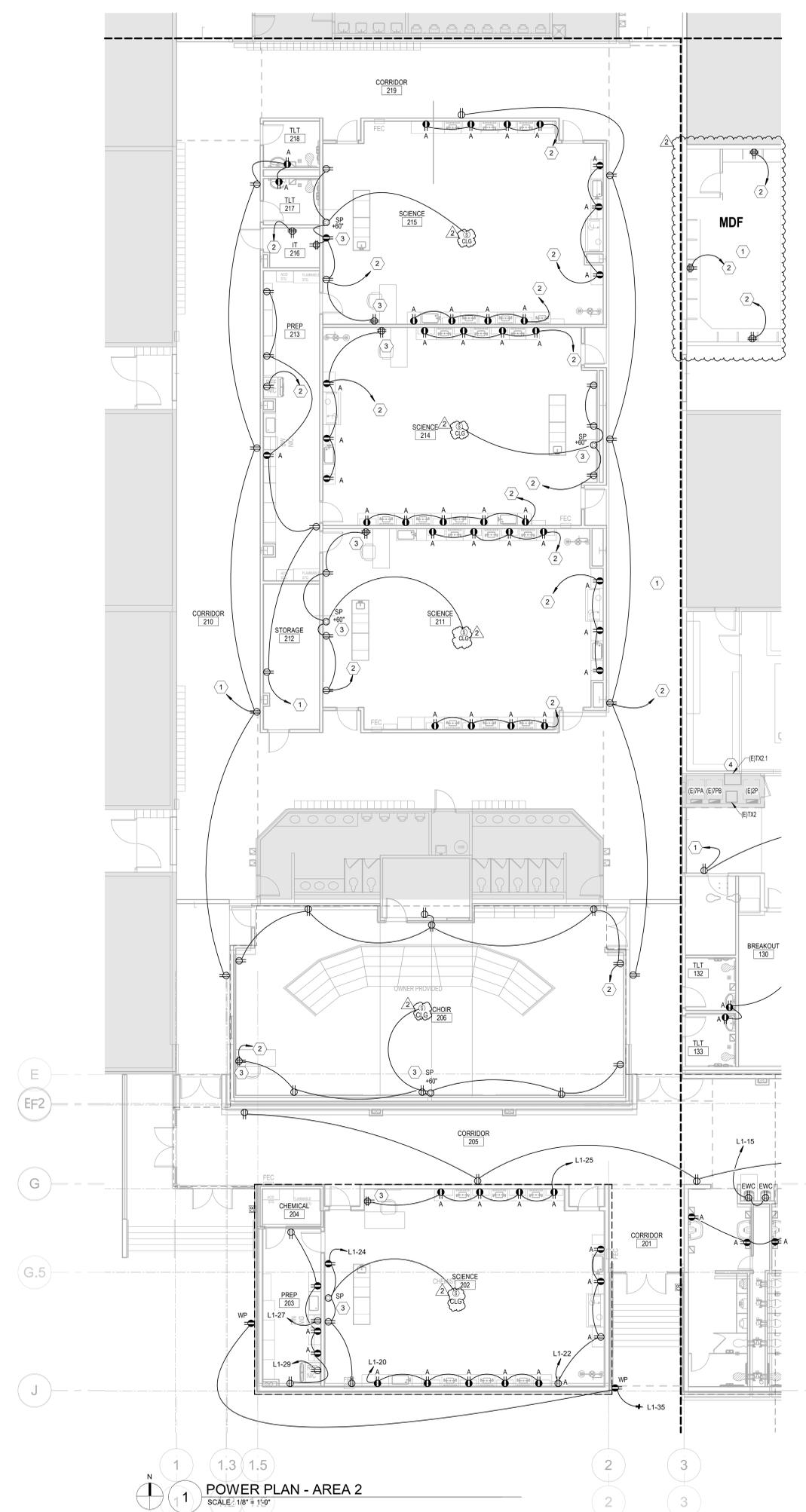
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2	ADDENDUM 02	03/17/25

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**POWER PLAN - AREA 1**

**E201**

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**POWER PLAN NOTES**

A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.

**KEYNOTES**

1. REPLACE EXISTING DEVICES WITH NEW AND NEW FACE PLATES.
2. UTILIZE EXISTING CIRCUIT IN ALL ROOMS.
3. INSTALL HDMI AND AUDIO CABLE FROM PROJECTOR AND SPEAKER TO TEACHER'S DESK. DO NOT BEND THE HDMI. USE 'L' CONNECTIONS.
4. COORDINATE AS NEEDED TO REPLACE NOISY TRANSFORMER IN EXISTING ELECTRICAL ROOM BY BLACKBOX.

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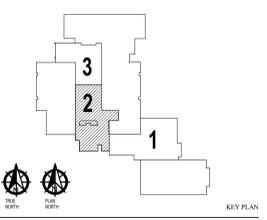


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# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025



KEY PLAN

NO.	DESCRIPTION	DATE
Z	ADDENDUM 02	03/17/25

REVISIONS

11.25.2025

ISSUE DATE

## POWER PLAN - AREA 2

**E202**

SHEET TITLE

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**POWER PLAN - AREA 2**  
SCALE: 1/8" = 1'-0"



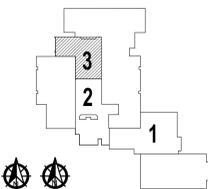
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# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT

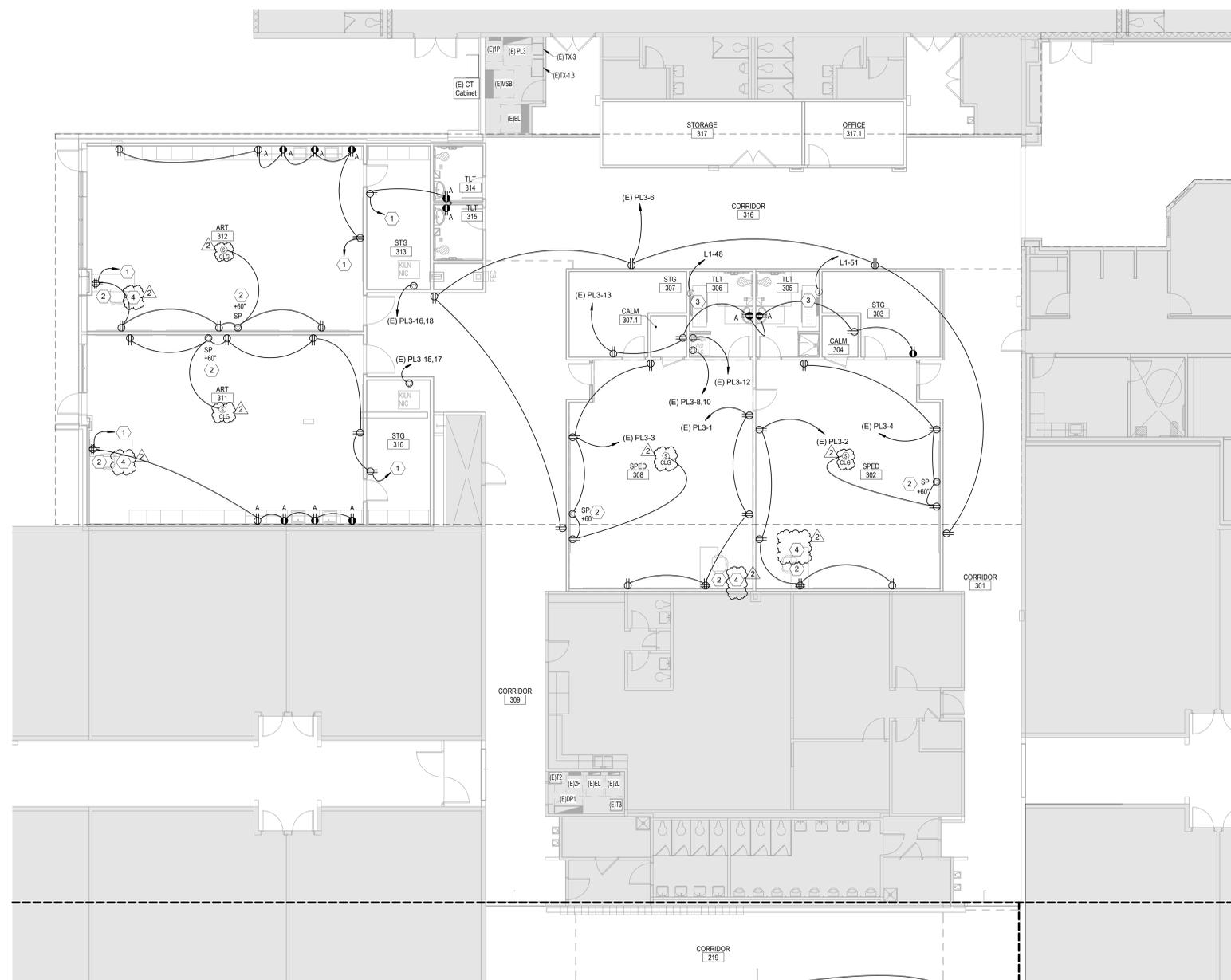


**POWER PLAN NOTES**

A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.

**KEYNOTES**

- 1 UTILIZE EXISTING CIRCUIT IN ALL ROOMS.
- 2 INSTALL HDMI AND AUDIO CABLE FROM PROJECTOR AND SPEAKER TO TEACHERS DESK. DO NOT BEND THE HDMI USE 1' CONNECTIONS.
- 3 PROVIDE 120V J-BOX CONNECTION FOR THE CHANGING STATION POWER. COORDINATE ALL POWERCONTROL AND EMERGENCY BUTTON CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 4 INSTALL INTERCOM IN ALL CLASSROOMS. MATCH EXISTING MODEL, TIE TO EXISTING SYSTEM.



**1 POWER PLAN - AREA 3**  
SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE
2	ADDENDUM 02	03/17/26

REVISIONS

11.25.2025

ISSUE DATE

## POWER PLAN - AREA 3

**E203**

SHEET TITLE

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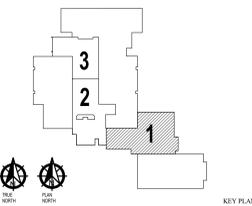


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# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025



KEY PLAN

**KEYNOTES**

- COORDINATE ALL PENETRATIONS THROUGH FIRE WALL AND OR SHELTER AREAS WALL WITH STRUCTURAL.
- EXISTING CAMERAS IN GYM TO BE CONNECTED TO NEW SECURITY NVR.
- INSTALL HDMI AND AUDIO CABLE FROM PROJECTOR AND SPEAKER TO TEACHER'S DESK. DO NOT BEND THE HDMI. USE 'L' CONNECTIONS.
- MAGNETIC DOOR OPEN, RELEASES WHEN EMERGENCY VENTILATION SWITCH ACTIVATED.
- INSTALL INTERCOM IN ALL CLASSROOMS. MATCH EXISTING MODEL. TIE TO EXISTING SYSTEM.

**EMERGENCY VENTILATION ACTIVATION PROCEDURE:**

ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:

- RTU-22 AND RTU-33 TO DEENERGIZE.
- MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.
- SVF-1 & SVF-2 TO ENERGIZE.

SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS TWISTED TO RESET:

- SVF-1 & SVF-2 TO DEENERGIZE.
- MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY CLOSE.
- RTU-22 AND RTU-33 TO ENERGIZE PER THEIR SET POINTS.

PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. PROVIDE ST1 SS2219P0-EN ST1 INDOOR/OUTDOOR SURFACE TURN-TO-RESET (ILLUMINATED) STOPPER STATION (OR EQUAL) COORDINATE WITH ARCHITECTURAL FOR EXACT MOUNTING LOCATION, COLOR, AND LETTERINGS OPTIONS.

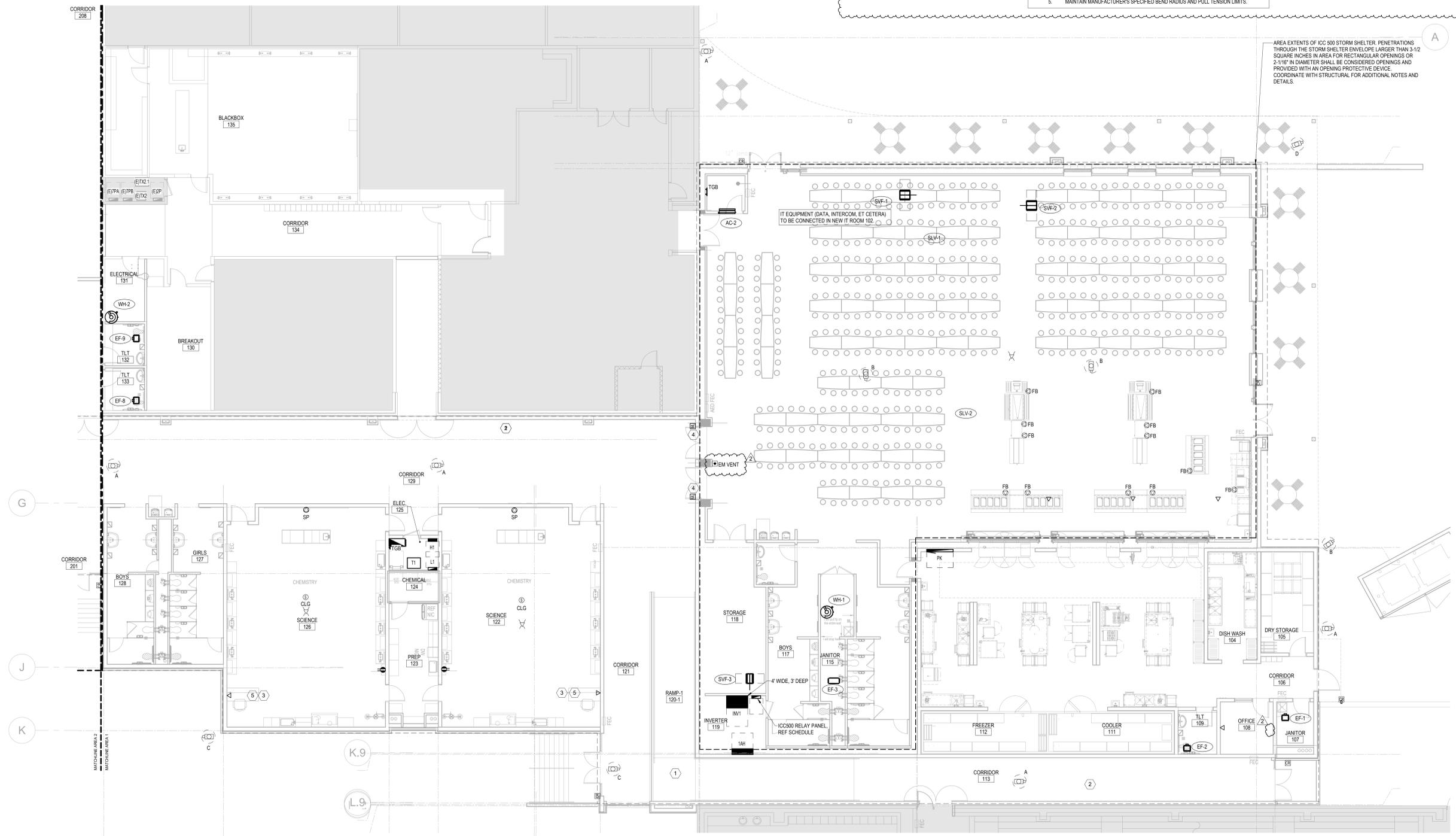
**HORIZONTAL CABLING STANDARD SERVICE LOOP**

- MAXIMUM HORIZONTAL CABLE LENGTH 90 METERS.
- INSTALL IN APPROVED PATHWAYS (CABLE TRAYS, CONDUIT, OR J-HOOKS) WITH A 5 FT MAXIMUM SPACING.
- ZIP TIES NOT PERMITTED. USE VELCRO OR HOOK-AND-LOOP FASTENERS.
- 2METER SERVICE LOOP AT BOTH IDF/ CABINET AND ENDPOINT.
- MAINTAIN MANUFACTURER'S SPECIFIED BEND RADIUS AND PULL TENSION LIMITS.

**SYSTEM PLAN NOTES**

- REFER TO MECHANICAL CONNECTION REQUIREMENTS.
- REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES.
- EXISTING CAMERA THAT ARE REMOVED ARE TO BE SALVAGED AND RETURNED TO OWNER.
- OWNER TO PROVIDE FIBER AND PATCH PANEL FROM EACH IT CLOSET TO THE EXISTING MDF.
- AVIGILON UNITY
  - ANVIR IN EXISTING MDF IN EXISTING COMPUTER ROOM.
  - THREE SWITCHES WITH UPS IN NEW IT CLOSET IN CAFETERIA, IT CLOSET 216 IN EXISTING OFFICE AND EXISTING MDF IN COMPUTER ROOM.
  - ALL EXISTING CAMERAS GET RECONNECTED TO NEW AVIGILON SYSTEM VERIFY EXISTING CABLING IS IN GOOD CONDITION BEFORE CONNECTING TO NEW SWITCH.
- ADD MOTIONS SENSORS AND DOOR SWITCHES TO ALL NEW EXTERIOR DOOR.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/8" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



Security Camera Schedule		Card reader schedule	
Identity Type Mark	Model	Identity Type Mark	Model
A	DUAL HEAD CAMERA 10.0C-H6ADH-D01-IR	CR	AC-HID-READER-SIGNO-40NKS-00-000000-STA-INDARD
B	FISHEYE CAMERA 12.0C-H6A-FE-360-D01-IR	CR	AC-HID-SIGNO-20NKS-00-000000-MILLION
C	MULTIHEAD CAMERA 24C-H6A-4MH		
D	MULTIHEAD CAMERA 20C-H6A-4MH		
F	DOME CAMERA 4.0C-H6A-D1-IR		

**1 SYSTEMS PLAN - AREA 1**  
SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE
2	ADDENDUM 02	03/17/26

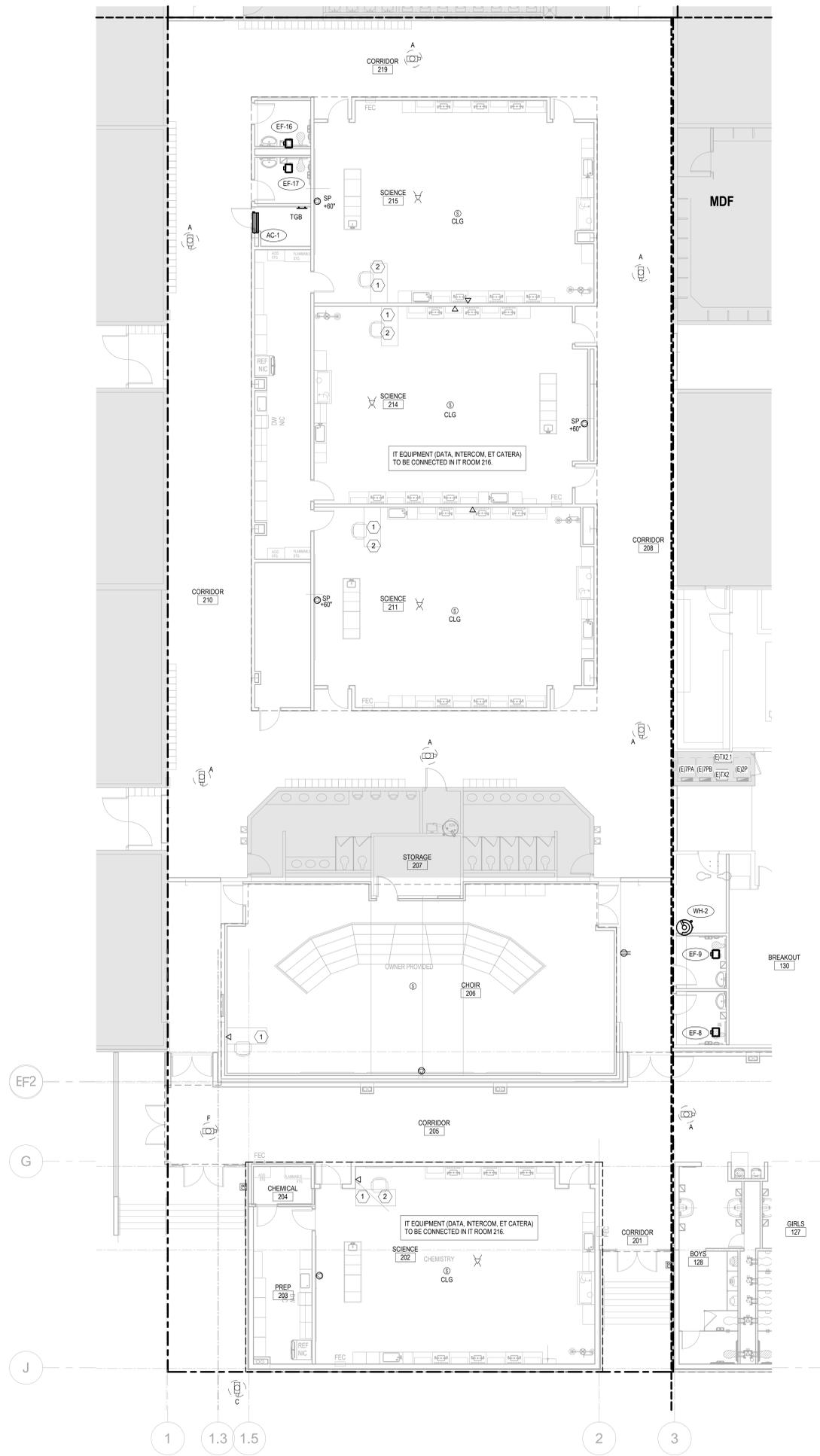
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## SYSTEMS PLAN - AREA 1

E301

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1/8" = 1'-0"  
 1/4" = 3'-0"  
 1/2" = 6'-0"  
 3/4" = 9'-0"  
 1" = 12'-0"



**SYSTEM PLAN NOTES**

- REFER TO MECHANICAL CONNECTION REQUIREMENTS.
- REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES.
- EXISTING CAMERA THAT ARE REMOVED ARE TO BE SALVAGED AND RETURNED TO OWNER.
- OWNER TO PROVIDE FIBER AND PATCH PANEL FROM EACH IT CLOSET TO THE EXISTING MDF.
- AVIGILON UNITY
  - AINVR IN EXISTING MDF IN EXISTING COMPUTER ROOM.
  - THREE SWITCHES WITH UPS IN NEW IT CLOSET IN CAFETERIA, IT CLOSET 219 IN EXISTING OFFICE AND EXISTING MDF IN COMPUTER ROOM.
  - ALL EXISTING CAMERAS GET RECONNECTED TO NEW AVIGILON SYSTEM. VERIFY EXISTING CABLING IS IN GOOD CONDITION BEFORE CONNECTING TO NEW SWITCH.
- ADD MOTIONS SENSORS AND DOOR SWITCHES TO ALL NEW EXTERIOR DOOR.

**KEYNOTES**

- INSTALL HDMI AND AUDIO CABLE FROM PROJECTOR AND SPEAKER TO TEACHERS DESK. DO NOT BEND THE HDMI. USE 'L' CONNECTIONS.
- INSTALL INTERCOM IN ALL CLASSROOMS. MATCH EXISTING MODEL. TIE TO EXISTING SYSTEM.

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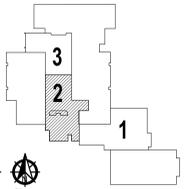
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# OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT



KEY PLAN

NO.	DESCRIPTION	DATE
2	ADDENDUM 02	03/17/25

REVISIONS

11.25.2025

ISSUE DATE

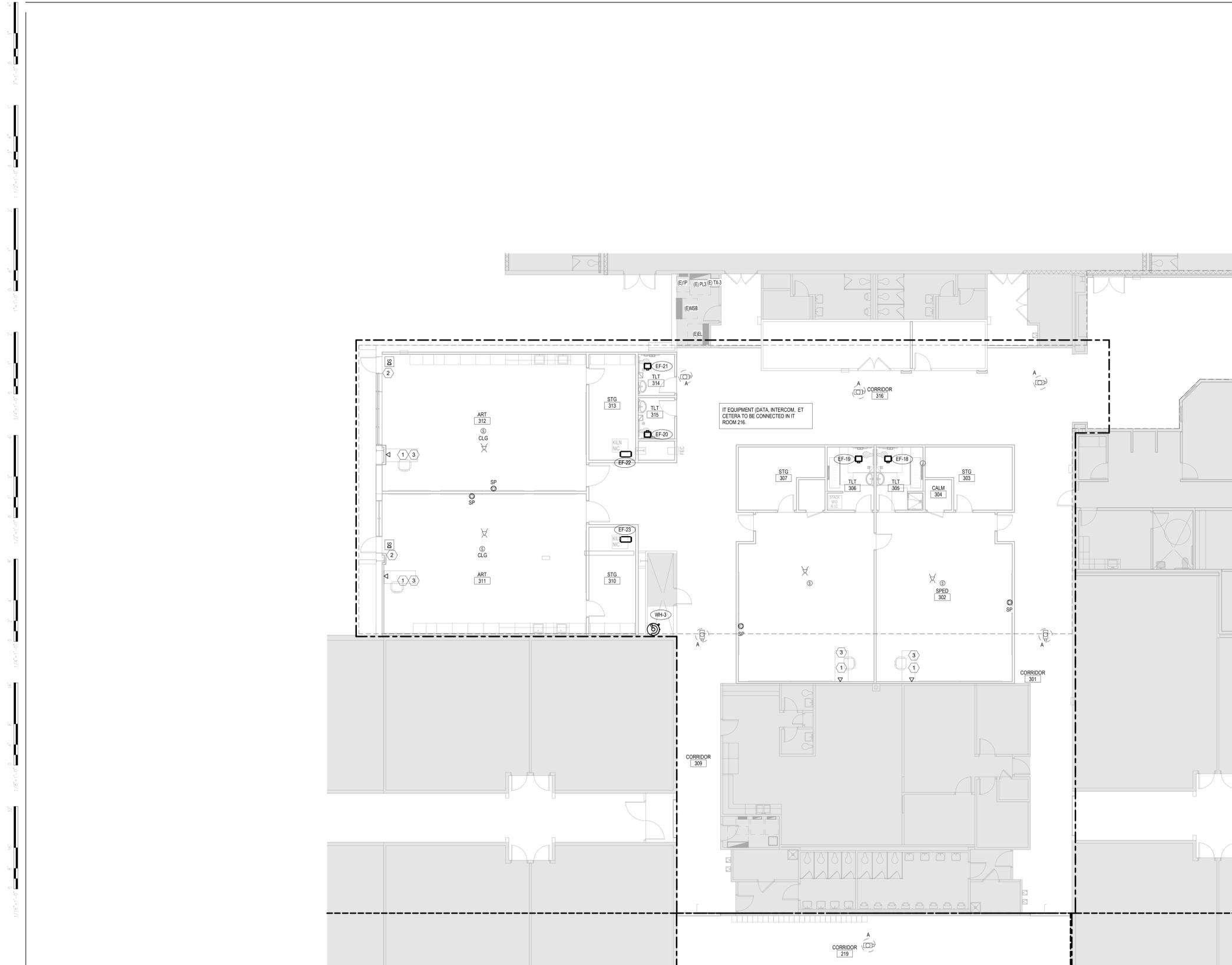
## SYSTEMS PLAN - AREA 2

E302

SHEET TITLE

**1** SYSTEMS PLAN - AREA 2  
 SCALE: 1/8" = 1'-0"

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1 SYSTEMS PLAN - AREA 3  
SCALE: 1/8" = 1'-0"

- SYSTEM PLAN NOTES**
- REFER TO MECHANICAL CONNECTION REQUIREMENTS.
  - REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES.
  - EXISTING CAMERA THAT ARE REMOVED ARE TO BE SALVAGED AND RETURNED TO OWNER.
  - OWNER TO PROVIDE FIBER AND PATCH PANEL FROM EACH IT CLOSET TO THE EXISTING MDF.
  - AVIGILON UNITY:
    - AINVR IN EXISTING MDF IN EXISTING COMPUTER ROOM.
    - THREE SWITCHES WITH UPS IN NEW IT CLOSET IN CAFETERIA, IT CLOSET 216 IN EXISTING OFFICE AND EXISTING MDF IN COMPUTER ROOM.
    - ALL EXISTING CAMERAS GET RECONNECTED TO NEW AVIGILON SYSTEM VERIFY EXISTING CABLING IS IN GOOD CONDITION BEFORE CONNECTING TO NEW SWITCH.
  - ADD MOTIONS SENSORS AND DOOR SWITCHES TO ALL NEW EXTERIOR DOOR.
- KEYNOTES**
- INSTALL HDMI AND AUDIO CABLE FROM PROJECTOR AND SPEAKER TO TEACHER'S DESK. DO NOT SEND THE HDMI USE 'L' CONNECTIONS.
  - INSTALL NEW DOOR SENSOR TO VERIFY DOOR POSITION (OPEN/CLOSED). VERIFY EXACT LOCATION WITH OWNER AND SECURITY SYSTEM INSTALLER PRIOR TO ROUGH IN. CONNECT TO NEW AVIGILON SYSTEM.
  - INSTALL INTERCOM IN ALL CLASSROOMS. MATCH EXISTING MODEL. TIE TO EXISTING SYSTEM.

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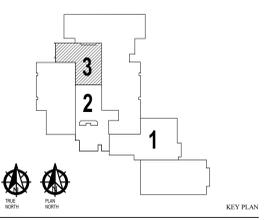


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## OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
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NO.	DESCRIPTION	DATE
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### SYSTEMS PLAN - AREA 3

E303

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CALLOUT	EQUIPMENT DESCRIPTION	PHASE	VOLTAGE	CIRCUIT		WIRE CALLOUT	LOAD			DISCONNECT		NOTES
				PANEL	NUMBER		KVA	FLA	MCA	TYPE	NEMA	
1	WALK-IN COOLER EVAPORATOR COIL	1	120 V	PK	8	3/4" C, 1#12, #12N, #12G	0.19	0 A	0 A	HARDWIRED	-	
1A	WALK-IN COOLER EVAPORATOR COIL	1	120 V	PK	1	3/4" C, 1#12, #12N, #12G	0.19	2 A	3 A	NON-FUSED	-	
1B	WALK-IN COOLER CONDENSER	1	208 V	PK	4,6	3/4" C, 2#12, #12G	2.81	14 A	15 A	FUSED	NEMA 3R	
1C	WALK-IN COOLER CONDENSER	1	208 V	PK	26,28	3/4" C, 2#12, #12G	2.81	0 A	0 A	FUSED	NEMA 3R	
1D	WALK-IN FREEZER EVAPORATOR COIL	1	208 V	PK	7,9	3/4" C, 2#12, #12G	2.26	16 A	32 A	NON-FUSED	-	
1E	WALK-IN FREEZER CONDENSER	1	208 V	PK	11,13	3/4" C, 2#6, #10G	5.15	25 A	28 A	NON-FUSED	-	
12	BUN PAN RACK	1	120 V	PK	55	3/4" C, 1#12, #12N, #12G	0.75	0 A	0 A	DUPLEX RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	12	3/4" C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	58	3/4" C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	62	3/4" C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
23	BRAISING PAN	1	120 V	PK	17	3/4" C, 1#12, #12N, #12G	0.60	5 A	6 A	HARDWIRED	-	
25	STEAMER	1	120 V	PK	38	3/4" C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
25	STEAMER	1	120 V	PK	75	3/4" C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
25	STEAMER	1	120 V	PK	79	3/4" C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	35	3/4" C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	36	3/4" C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	46	3/4" C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	69	3/4" C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
28	HOT WATER DISPENSER	1	120 V	PK	39	3/4" C, 1#12, #12N, #12G	0.12	0 A	0 A	GFCI RECEPTACLE	-	
30	EXHAUST HOOD	1	120 V	PK	44	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
31	FIRE SUPPRESSION SYSTEM	1	120 V	PK	48	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
32	EXHAUST HOOD FANS	1	120 V	PK	56	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
33	EXHAUST HOOD	1	120 V	PK	44	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
34	FIRE SUPPRESSION SYSTEM	1	120 V	PK	46	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
35	EXHAUST HOOD FANS	1	120 V	PK	54	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
36	EXHAUST HOOD	1	120 V	PK	32	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
37	FIRE SUPPRESSION SYSTEM	1	120 V	PK	50	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
38	EXHAUST HOOD FANS	1	120 V	PK	52	3/4" C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
39	HEATED CABINET - 1 DOOR	1	120 V	PK	18	3/4" C, 1#12, #12N, #12G	1.44	0 A	0 A	DUPLEX RECEPTACLE	-	
39	HEATED CABINET - 1 DOOR	1	120 V	PK	47	3/4" C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
40	FOOD PROCESSOR	1	120 V	PK	10	3/4" C, 1#12, #12N, #12G	1.44	0 A	0 A	DUPLEX RECEPTACLE	-	
40	FOOD PROCESSOR	1	120 V	PK	43	3/4" C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
41	REFRIGERATOR - 2 DOOR	1	120 V	PK	16	3/4" C, 1#12, #12N, #12G	1.44	16 A	19 A	GFCI RECEPTACLE	-	
41	REFRIGERATOR - 2 DOOR	1	120 V	PK	53	3/4" C, 1#12, #12N, #12G	1.44	0 A	0 A	GFCI RECEPTACLE	-	
43	BEVERAGE REFRIGERATOR	1	120 V	PK	21	3/4" C, 1#12, #12N, #12G	0.24	0 A	0 A	DUPLEX RECEPTACLE	-	
43	BEVERAGE REFRIGERATOR	1	120 V	PK	23	3/4" C, 1#12, #12N, #12G	0.24	2 A	3 A	DUPLEX RECEPTACLE	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	25	3/4" C, 1#10, #10N, #10G	2.66	22 A	28 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	31	3/4" C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	42	3/4" C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	45	3/4" C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	80	3/4" C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
45	SERVING COUNTER - FLAT TOP	1	120 V	PK	20	3/4" C, 1#12, #12N, #12G	0.24	0 A	0 A	GFCI RECEPTACLE	-	
45	SERVING COUNTER - FLAT TOP	1	120 V	PK	33	3/4" C, 1#12, #12N, #12G	0.24	0 A	0 A	GFCI RECEPTACLE	-	
46	PIZZA OVEN	1	208 V	PK	61,63	3/4" C, 2#4, #10G	9.99	0 A	0 A	SEE NOTES FOR RECEPTACLE CONFIGURATION	-	
48	MILK COOLER	1	120 V	PK	22	3/4" C, 1#12, #12N, #12G	0.60	5 A	6 A	DUPLEX RECEPTACLE	-	
48	MILK COOLER	1	120 V	PK	24	3/4" C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
49	CASHIERS STAND	1	120 V	PK	27	3/4" C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
49	CASHIERS STAND	1	120 V	PK	51	3/4" C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
50	HEAT CABINET	1	120 V	PK	30	3/4" C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
51	REFRIGERATED PIZZA PREP	1	120 V	PK	57	3/4" C, 1#12, #12N, #12G	0.60	48 A	72 A	DUPLEX RECEPTACLE	-	
55	DISH MACHINE	1	120 V	PK	34	3/4" C, 1#12, #12N, #12G	1.50	0 A	0 A	FUSED	-	
56	DISH MACHINE VENT	1	120 V	PK	29	3/4" C, 1#12, #12N, #12G	1.50	13 A	16 A	GFCI RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	37	3/4" C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	74	3/4" C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	76	3/4" C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	78	3/4" C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	

**KITCHEN EQUIPMENT SCHEDULE NOTE**

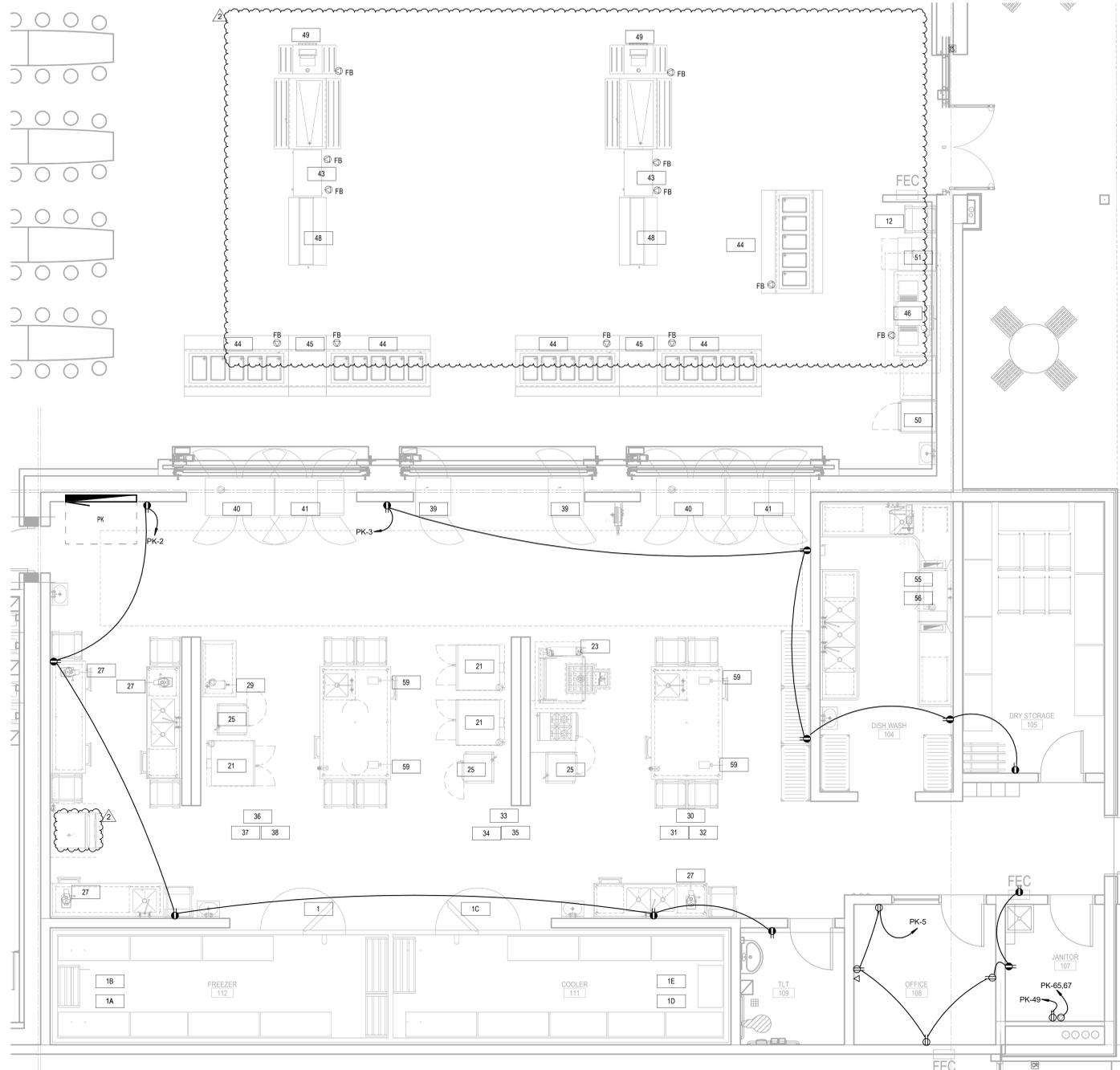
A. REF KITCHEN CONSULTANT PLANS FOR ADDITIONAL INFORMATION. PROVIDE REVISED EQUIPMENT BASED ON FINAL APPROVED SUBMITTALS.

B. COORDINATE FINAL REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT. PROVIDE UPDATED EQUIPMENT SELECTIONS, BREAKERS, AND/OR CONDUCTOR SIZES BASED UPON DEVIATIONS FROM BASIS OF DESIGN. COORDINATE WITH KITCHEN CONTRACTOR PRIOR TO SUBMITTING SUBMITTALS. COORDINATE LOCATION PRIOR TO ROUGH-IN.

C. ALL 125 VOLT, 15 AND 20 AMPERE RECEPTACLES INSTALLED IN KITCHENS SHALL BE GFCI-GROUND FAULT CIRCUIT INTERRUPTING PROTECTED.

D. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.

E. VERIFY KITCHEN EQUIPMENT NEMA RECEPTACLE CONFIGURATIONS WITH SUCCESSFUL KITCHEN EQUIPMENT PROVIDER AND PROVIDE ELECTRICAL DEVICES, CONNECTIONS, CIRCUIT BREAKERS, WIRING AS REQUIRED FOR A COMPLETE KITCHEN EQUIPMENT SYSTEM. PROVIDE COSTS IN BASE BID.



1 FIRST FLOOR ENLARGED KITCHEN PLAN  
SCALE: 1/4" = 1'-0"  
1/E201

**POWER PLAN NOTES**

A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4" AIR ENTRANCED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.

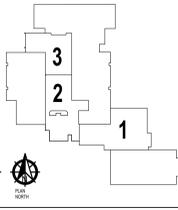
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**OWASSO  
8th GRADE  
ADDITION**

OWASSO PUBLIC SCHOOLS  
OWASSO, OK  
2025



NO.	DESCRIPTION	DATE
2	ADDENDUM 02	03/17/25

11.25.2025

**ENLARGED  
ELECTRICAL  
KITCHEN PLAN**

**E501**

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