

ADDENDUM NO. 02
LEGRANDE ELEMENTARY SCHOOL ADDITION AND RENOVATION
SCB PROJECT NO. 2210

TO: All Plan Holders

FROM: Sherman Carter Barnhart Architects
144 Turner Commons Drive, Suite 110
Lexington, Kentucky 40508

DATE: August 23, 2023

The purpose of this Addendum is to clarify further the requirements of the plans and specifications. The bidders are governed by the information in this Addendum as if included in the plans and specifications. This Addendum does hereby become a part of the Contract Documents. Each bidder shall acknowledge receipt of this Addendum in the space provided in the Bid Form.

This Addendum consists of forty-eight (48) pages.

A. Project Manual

1. 088000 – Glazing. **REPLACE** with **attached**.
2. 071326 – Self-Adhered Sheet Waterproofing System. Item 1.1-A. **REVISE** to read:
“Installation of sheet membrane waterproofing is to occur on the existing basement wall where the areaway is removed and the existing louver opening infilled as indicated on drawings and consisting of preparation of existing and repaired concrete surfaces, sealing of cracks and joints and application of sheet membrane waterproofing.”
3. 081416 – Flush Wood Doors. **DELETE** “Item 2.2-D-3 – STC Rated Doors” in its entirety.

B. Construction Drawings

1. Sheet SD1.0 – Site Development Plan. **REPLACE** with **attached**.
2. Sheet SD2.0 – Site Grading & Drainage Plan. **REPLACE** with **attached**.
3. Sheet A1.3 – Roof Plan and Details. **REPLACE** with **attached**.
4. Sheet A3.1 – Reflected Ceiling Plan and Details. **REPLACE** with **attached**.
5. Sheet D1.0 – Demolition Plan, Details & Notes. **REPLACE** with **attached**.

C. Mechanical / Electrical / Plumbing

1. **Refer to attachments** from CMTA Engineers.

End of Addendum

SECTION 088000 - GLAZING

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. Section includes:

1. Glass for storefront framing and hollow metal framing.
2. Glazing sealants and accessories.
3. Translucent glazing units and 1" glazing units.
4. Film to provide one way viewing glass.
5. Ceramic coated frit glass.

- B. Related Requirements:

1. Section 084113 "Aluminum-Framed Entrances and Storefronts" for associated aluminum framing.
2. Section 081113 "Hollow Metal Doors and Frames".

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. IBC: International Building Code.
- D. Interspace: Space between lites of an insulating-glass unit.

1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 PREINSTALLATION MEETINGS

- A. Pre-installation Conference: Conduct conference at Project site.
 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 2. Review temporary protection requirements for glazing during and after installation.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of the following products; 12 inches (300 mm) square.
 - 1. Insulating glass (typical and spandrel).
 - 2. Translucent insulating glass.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For glass.
- C. Preconstruction adhesion and compatibility test report.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- B. Mockups: Build mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Install glazing in mockups specified in Section 084113 "Aluminum-Framed Entrances and Storefronts" to match glazing systems required for Project, including glazing methods.
 - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C).

1.11 WARRANTY

- A. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass

breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Glass Product: Subject to compliance with requirements, provide PPG Solarban 60 on Low-E product indicated or comparable product by one of the following:
 1. Guardian Industries Corp.; SunGuard.
 2. Pilkington North America.
 3. PPG Flat Glass; PPG Industries, Inc.
- B. Glass Fabricators: Acceptable fabricators of Sealed Glass Units, Heat-Strengthened Glass, Tempered Glass and Spandrel Glass:
 1. Oldcastle Building Envelope
 2. Glenny Glass
 3. Trulite Glass and Aluminum Solutions, LLC
 4. Viracon, Inc.
- C. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.
 1. Obtain tinted glass from single source from single manufacturer.
 2. Obtain reflective-coated glass from single source from single manufacturer.
- D. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

2.2 CERAMIC COATED SPANDREL GLASS: ASTM C 1048, Condition B (spandrel glass, one surface ceramic coated), Type I (transparent flat glass), Quality-Q3, and complying with other requirements specified.

1. Fallout Resistance: Provide spandrel units identical to those passing the fallout-resistance test for spandrel glass specified in ASMT C 1048.
2. Available Products:
 - a. PPG Industries, Inc.
 - b. Pilkington Building Products North America; Opti-Float Clear Glass
 - c. Or equal.

2.3 Film to Provide One-Way Viewing Glass: Privacy series one-way mirror window film (by 3M or equal) provides clear, plain glass to provide one-way vision glass. Provide film which provides the least need for light level / brightness from spaces on opposite sides of the glass. Prior to installation install a mock-up of film to actual location for Owner's review and approval to

proceed with installation. Prep glass and install film per manufacturer's written instructions. Provide 1-year warranty for tears and other failures.

2.4 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E 1300.
 - 1. Design Wind Pressures: As indicated on Drawings.
 - 2. Design Snow Loads: As indicated on Drawings.
 - 3. Thickness of Patterned Glass: Base design of patterned glass on thickness at thinnest part of the glass.
 - 4. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.
 - 5. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.
- C. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 2. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
 - 3. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - 4. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.5 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. GANA Publications: "Glazing Manual."
 - 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- C. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
 - 1. Minimum Glass Thickness for Exterior Lites: 6 mm.

2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.

D. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.6 GLASS PRODUCTS

A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.

1. Ultra-Clear (Low Iron) Float Glass with minimum 91 percent visible light transmission and a minimum solar heat gain coefficient of 0.87.

B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.

1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

2.7 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.

1. Sealing System: Dual seal, with polyisobutylene and silicone primary and secondary sealants.

2. Spacer: Manufacturer's standard spacer material and construction.

3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.8 GLAZING SEALANTS

A. General:

1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.

2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

3. Field-applied sealants shall have a VOC content of not more than 250 g/L.

4. Sealants shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California Department of Health Services') "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

5. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

- B. Glazing Sealant: Acid-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 25, Use NT.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. BASF Corporation; Construction Systems.
 - b. Dow Corning Corporation; DOW CORNING® 999A SILICONE GLAZING SEALANT.
 - c. GE Construction Sealants; Momentive Performance Materials Inc; SCS1000 Contractors.
 - d. Sika Corporation; Sikasil-GP.

2.9 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
1. AAMA 804.3 tape, where indicated.
 2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.10 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.11 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
- C. Grind smooth and polish exposed glass edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep systems.
 - 3. Minimum required face and edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.

- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch (3-mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.

- G. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.

1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.

C. Remove and replace glass that is damaged during construction period.

D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.8 INSULATING GLASS SCHEDULE

A. Glass Type: Low-E-coated, insulating glass.

1. Basis-of-Design Product: PPG Solarban 60 on Solar Gray Low E #2.
2. Overall Unit Thickness: 1 inch (25 mm).
3. Minimum Thickness of Each Glass Lite: 1/4 inch.
4. Outdoor Lite: Clear fully tempered float glass.
5. Interspace Content: Air.
6. Indoor Lite: Clear annealed float glass.
7. Low-E Coating: Sputtered on second surface.
8. Winter Nighttime U-Factor:.29 maximum.
9. Summer Daytime U-Factor:.27 maximum.
10. Visible Light Transmittance: 35 percent minimum.
11. Solar Heat Gain Coefficient:.25 maximum.

B. Glass Type: Low-E-coated, insulating glass spandrel units.

1. Basis-of-Design Product: PPG Solarban 60 on Solar Gray Low E #2.
2. Overall Unit Thickness: 1 inch (25 mm).
3. Minimum Thickness of Each Glass Lite: 1/4 inch.
4. Outdoor Lite: Clear fully tempered float glass.
5. Interspace Content: Air.
6. Indoor Lite: Clear annealed float glass.
7. Ceramic Frit (Manufacturer's Standard Selection) on Surface No. 4.
8. Low-E Coating: Sputtered on second surface.
9. Winter Nighttime U-Factor:.29 maximum.
10. Summer Daytime U-Factor:.27 maximum.
11. Visible Light Transmittance: 35 percent minimum.
12. Solar Heat Gain Coefficient:.25 maximum.

C. Glass Type: Translucent insulating glass.

1. Basis-of-Design Product: Advanced Glazings Ltd., "Solera L in white"
2. Overall Unit Thickness: 1 inch (25 mm).
3. Minimum Thickness of Each Glass Lite: 1/4" inch.
4. Outdoor Lite: Clear fully tempered float glass
5. Interspace Content: Air
6. Indoor Lite: Clear fully tempered float glass.
7. Summer Daytime U-Factor: 0.47
8. Visible Light Transmittance: 46%
9. Solar Heat Gain Coefficient: 0.11-0.58
10. At Spandrel Location (Frame Type C*): Provide ceramic frit on Surface No. 4 (White)

END OF SECTION 088000

| KEY | DESCRIPTION | DETAIL |
|-----|--|---------------|
| A | HEAVY DUTY ASPHALT PAVEMENT | AP / SD-3.0 |
| B | CONCRETE PAVING | CP / SD-3.0 |
| C | NOT USED | |
| D | CONCRETE WALK | CW / SD-3.0 |
| E | 1/2" EXPANSION JOINT MATERIAL W/ SEALANT (TYP) | EJ / SD-3.0 |
| F | 1/4" TOOLED CONTROL JOINT (TYP) | TJ / SD-3.0 |
| G | 4" WIDE WHITE PAINT STRIPE (TYP) | SEE SPECS. |
| H | PIPE BOLLARD | BD / SD-3.0 |
| I | SITE UTILITY | SEE MECH/ELEC |
| J | CONCRETE WALK WITH TURNED DOWN EDGE | TW / SD-3.0 |
| K | 4'-0" TALL, PVC COATED, CHAINLINK FENCE AND SINGLE GATE | CF / SD-3.0 |
| L | 8'-0" TALL CHAINLINK FENCE, PVC COATED | CF / SD-3.0 |
| M | 8'-0" TALL CHAINLINK FENCE DOUBLE VEHICULAR GATE, PVC COATED | CF / SD-3.0 |
| N | 8'-0" TALL CHAINLINK FENCE SINGLE GATE, PVC COATED | CF / SD-3.0 |
| O | 8'-0" TALL CHAINLINK FENCE, PVC COATED, WITH PVC SLATS | CF / SD-3.0 |
| P | 8'-0" TALL CHAINLINK FENCE DOUBLE VEHICULAR GATE, PVC COATED, WITH PVC SLATS | CF / SD-3.0 |
| Q | 8'-0" TALL CHAINLINK FENCE SINGLE GATE, PVC COATED, WITH PVC SLATS | CF / SD-3.0 |
| R | CONCRETE RAMP | HD / SD-3.1 |
| S | HANDRAIL | HD / SD-3.1 |
| T | GUARDRAIL | GR / SD-3.1 |
| U | CONCRETE STEPS | SD / SD-3.0 |
| V | CHEEK WALLS AT CONCRETE STEPS (SEE STRUCTURAL) | K / S-3.1 |
| W | TERRACE WALL (SEE STRUCTURAL) | D / S-3.1 |
| X | TERRACE WALL AT CONCRETE STEPS (SEE STRUCTURAL) | P / S-3.1 |

GENERAL SITE NOTES:

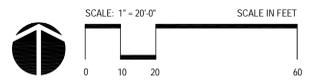
- PROVIDE 1/2" EXP. JT. MATERIAL W / SEALANT WHERE NEW CONC. CURBS, WALKS, OR PAVING ABUT STORM SEWER STRUCTURES, BUILDINGS, ETC.
- AT END OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FENCING, TEMPORARY EROSION CONTROL STRUCTURES, AND OTHER TEMPORARY SERVICES ON SITE.
- ALL RADII ARE TO BE 5' UNLESS SHOWN OTHERWISE.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL GOVERNING AGENCIES.
- ALL PERMITS AND BONDS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY AREAS DAMAGED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED UNLESS OTHERWISE SHOWN TO RECEIVE SOO.
- UTILITIES ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO UTILITY DRAWINGS FOR LOCATIONS UNLESS OTHERWISE SHOWN ON THIS SHEET.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS SHOWN OTHERWISE.
- ALL TREES ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE STAGING, CONSTRUCTION ENTRANCE, AND NEW WORK WITH OWNER.
- REFER TO MECH/ELEC/PLUMB SITE UTILITY SHEETS FOR ADDITIONAL CUT AND PATCHING OF PAVEMENTS.
- REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR CONCRETE WALK CONNECTION TO BUILDING SLAB AT DOORWAYS.
- CAD FILES WILL BE AVAILABLE TO SUCCESSFUL CONTRACTOR FOR LAYOUT PURPOSES UPON CONTRACTOR SIGNING OF RELEASE FORM. ANY ADDITIONAL DIMENSIONS REQUIRED FOR LAYOUT SHALL BE REQUESTED BY THE CONTRACTOR.
- WHERE NEW WORK OCCURS IN EXISTING PAVEMENT, CONTRACTOR SHALL CUT AND PATCH PAVEMENT AS REQUIRED TO COMPLETE NEW WORK AND RESTORE PAVEMENT. MATCH PAVEMENT TYPE. SEE SPECIFIC DETAILS FOR NEW PAVEMENT SECTIONS. IF SPECIFIC DETAIL IS NOT INCLUDED CONTRACTOR SHALL MATCH EXISTING PAVEMENT SECTION. FOR ASPHALT PATCHING SEE DETAIL EK/SD3.1 FOR EDGE KEY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS INCLUDING ALL SITE UTILITY DRAWINGS AND ASSOCIATED UTILITY TRENCHING.
- ALL LIGHT STANDARDS SHALL BE EQUIDISTANT FROM BACK OF CURB UNLESS NOTED OTHERWISE (TYP. 3 FEET CLEAR BETWEEN BACK OF CURB AND FACE OF FIXTURE FOUNDATION). WHERE LIGHT STANDARDS ARE SHOWN IN LINE, INTENT IS FOR THE POLES TO ALIGN WITHIN A 1" TOLERANCE. REFER TO SITE ELECTRICAL SHEET FOR FURTHER INFORMATION.
- COORDINATES SHOWN ON THIS DRAWING ARE PROVIDED TO LOCATE NEW BUILDING ON SITE. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS.

LEGEND

- PROPERTY LINE (LIMITS OF CONSTRUCTION)
- T- TREE PROTECTION FENCE REFER TO DETAIL A / DS-1.0
- [G/F] CONCRETE WALK - CW / AS-201

KEY TO SHADING

- [A] HEAVY DUTY ASPHALT PAVEMENT
- [B] CONCRETE PAVING





**LEGRANDE ELEMENTARY
ADDITION AND RENOVATION**
HART COUNTY BOARD OF EDUCATION
70 LEGRANDE SCHOOL ROAD
HORSE CAVE, KENTUCKY 42749

SITE GRADING AND DRAINAGE PLAN

| | |
|---------|-----------|
| JOB NO. | 2210 |
| DATE | 8/03/2023 |
| DRAWN | MB |
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| No. | Description | Date |
| 1 | ADDENDUM #2 | 8/23/23 |

SHEET

SD2.0

| GRADING SITE LEGEND | |
|---|--|
| REFER TO TOPOGRAPHIC SURVEY FOR EXISTING UTILITIES LEGEND | |
| REFER TO SITE DEVELOPMENT PLANS FOR SITE LEGEND | |
| SYMBOLS | DESCRIPTION |
| --- | EXISTING CONTOUR MKOR |
| --- | EXISTING CONTOUR MAJOR |
| --- | CONTOUR MINOR |
| --- | CONTOUR MAJOR |
| ✕979.5 | EXISTING SPOT ELEVATION |
| ✕979.5 | SPOT ELEVATION AT GUTTER LINE ADD 6" FOR TOP OF CURB ELEVATION |
| ✕979.5 FL | CHANNEL FLOW LINE ELEVATION |
| ✕979.5 HP | SPOT ELEVATION HIGH POINT @ BREAKLINE |
| ✕979.5 TC | SPOT ELEVATION TOP OF CURB/CONCRETE |
| ✕979.5 CL | SPOT ELEVATION GUTTER LINE |
| ✕E | EXISTING FIELD VERIFIED SPOT ELEVATION (AT GUTTER LINE ADD 6" FOR CURB ELEVATION) |
| ✕E | MATCH EXIST |
| ✕979.5 FL | SPOT ELEVATION FLUSH AT GUTTER LINE |
| ✕979.5 FFE | FINISH FLOOR ELEVATION |
| ✕979.5 CC | CURB CUT ELEVATION |
| ⊙ | DROP INLET SQUARE OR ROUND DIS640 |
| ⊙ | STANDARD HEADWALL SHWSD40 |
| ⊙ | NEW OR EXISTING DOWNSPOUTS ARE SHOWN FOR REFERENCE ONLY REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION PROVIDE BOOTHS PER(S)6040 |
| ⊙ | 4" DIA FOUNDATION DRAIN SMOOTH INTERIOR FDS640 |
| —ST | STORM SEWER ST6640 |
| 1.0% | GRADERSLOPE |
| → | RUNOFF FLOW ARROW |
| ↗ | HANDICAPPED RAMP MAX SLOPE 8.33% |
| F.V. | FIELD VERIFY EXISTING CONDITIONS AND ADJUST ACCORDINGLY |

- GRADING AND DRAINAGE NOTES:**
1. ALL EARTHWORK FOR THIS PROJECT SHALL BE UNCLASSIFIED EXCAVATION TO PLAN BOTTOM DEPTH. PLAN BOTTOM DEPTHS DEFINED AS THE LOWEST ELEVATION OF EXCAVATION. THIS INCLUDES BOTTOM OF EXCAVATION FOR FOUNDATIONS, UTILITIES, ROADS, PARKING, SIDEWALKS, REQUIRED UNSUITABLE SOILS UNDERCUTTING AND/OR ROCK REMOVAL AS INDICATED OR NOTED ON DRAWINGS OR GEOTECHNICAL REPORT.
 2. AREAS THAT WILL SUPPORT FOUNDATIONS, FLOORS, PAVEMENTS, SHALL BE PROPERLY PREPARED AS SPECIFIED IN ACCORDANCE WITH GEOTECHNICAL EXPLORATION REPORT PREPARED BY Y SOLID GROUND CONSULTING ENGINEERS PLLC DATED AUGUST 2023 AND SHALL BE APPROVED BY ON-SITE GEOTECHNICAL ENGINEERING TESTING AGENCY.
 3. PRIOR TO CONSTRUCTION OR THE PLACEMENT OF NEW ENGINEERED FILL, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE EVALUATION SHALL INCLUDE PROTECTING OF THE EXPOSED SUBGRADE. IF UNSUITABLE MATERIALS AREA DISCOVERED, AN APPROPRIATE REMEDIAL MEASURE WOULD BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER AT THAT TIME.
 4. CARE MUST BE EXERCISED DURING GRADING AND FILL PLACEMENT OPERATIONS. THE COMBINATION OF CONSTRUCTION EQUIPMENT TRAFFIC AND EXCESS SURFACE MOISTURE CAN CAUSE PUMPING AND DETERIORATION OF THE NEAR SURFACE SOILS. THE SEVERITY OF THIS POTENTIAL PROBLEM DEPENDS TO A GREAT EXTENT ON THE WEATHER CONDITIONS PREVAILING DURING CONSTRUCTION. THE CONTRACTOR MUST EXERCISE CAUTION WHEN SELECTING EQUIPMENT SIZES AND ALSO MAKE A CONCERTED EFFORT TO CONTROL SURFACE WATER WHILE THE SUBGRADE SOILS ARE EXPOSED. IF SUCH PROBLEMS DO ARISE, THE GEOTECHNICAL ENGINEER SHOULD BE CONTACTED TO EVALUATE THE CONDITION.
 5. ENGINEERED FILL PLACEMENT AND COMPACTION OPERATIONS SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FIELD DENSITY TESTS MUST BE PERFORMED ON EACH LIFT AS NECESSARY TO CHECK THAT THE SPECIFIED COMPACTION IS BEING ACHIEVED.
 6. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION AND SHALL CLOSELY MONITOR UTILITY INSTALLATION BY OTHERS. IT IS RECOMMENDED TO INSTALL GRAVITY STORM AND SANITARY LINES PRIOR TO ELECTRICAL, COMMUNICATION AND WATER LINES. BURY DEPTH CONFLICTS DUE TO NON COORDINATION WILL NOT BE SUBJECT TO CHANGE REQUEST.
 7. EXCAVATION, ROCK REMOVAL, TOPSOIL STOCKPILES, DETENTION POND BERMS, UTILITY TRENCHES, AND OTHER SPECTS OF CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE OSHA REGULATIONS 1926.690-692.
 8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT CIVIL ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
 9. THE PRINCIPLES OF POSITIVE DRAINAGE SHALL BE APPLIED UNIVERSALLY ACROSS THE SITE. WATER SHALL BE MOVED AWAY FROM THE BUILDINGS. WATER SHW SHOULD NOT BE ALLOWED TO POND AT LOW POINTS OR IN LOW AREAS. FINISH SUBGRADE TO REQUIRED ELEVATION WITHIN THE FOLLOWING TOLERANCES:
LAWN OR UNPAVED AREAS: PLUS OR MINUS 0.1 FT
SIDEWALKS PLUS OR MINUS 0.1 FT
PAVEMENTS PLUS OR MINUS 0.1 FT
GRADING INSIDE BUILDING LINE TO A TOLERANCE OF 0.05 FT WHEN TESTED WITH A 10 FOOT STRAIGHTEDGE
 10. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE SITE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.
 11. PROPOSED EXISTING ROAD AND PARKING AREAS ARE NOT DESIGNED TO ACCOMMODATE HIGH LOADS CAUSED BY CONSTRUCTION TRUCKS. CONTRACTOR SHALL MAINTAIN STABLE AND UNIFORM SUBGRADE TO REMAIN AND EXISTING ASPHALT PAVEMENT DAMAGED BY CONSTRUCTION TRAFFIC AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR PROVIDE AND MAINTAIN TEMPORARY CONSTRUCTION ROAD IN ACCORDANCE WITH CONTRACTOR CONSTRUCTION METHODS AND SCHEDULE.
 12. IF EXISTING FOUNDATION DRAINS EXIST AT EXISTING FOUNDATIONS, RECONNECT AND EXTEND EXISTING FOUNDATION DRAIN AS REQUIRED TO PROVIDE SUBSURFACE DRAINAGE.
 13. ALL VALVE, METERS AND MANHOLE COVERS SHALL BE ADJUSTED TO MATCH THE NEW GRADERS (TYP)

- DRAINAGE STRUCTURE NOTES:**
1. ALL LENGTHS OF STORM SEWER PIPING ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PIPE MATERIALS AS FITTINGS AS NECESSARY TO COMPLETE THE STORM DRAINAGE SYSTEM (NOT REQUIRED).
 2. PROVIDE PPE SUPPLIED BY PRODUCER THAT LISTED ON THE LIST OF APPROVED MATERIALS PUBLISHED BY HENRIKUY TRANSPORTATION, CABINET, AND IN ACCORDANCE WITH SECTION 605 KTC STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION EDITION OF 2006. ENSURE ALL FITTINGS AND PPE ARE MADE FROM THE SAME TYPE OF MATERIAL.
 3. STORM PIPE DESIGNATION:
R1: THERMOPLASTIC PIPE, PROVIDE 1/2" DIA BENT PIPE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) OR DEPT WITH SMOOTH INTERIOR WALL WITH SLOTTED JOINTS.
R2: EQUIVALENT MEETING ASHTO STANDARDS H24 INSTALL AND MANHOLE HOPE PIPE IN STRICT ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
R3: REINFORCED CONCRETE PIPE CONFORMING ASHTO M-170 CLASS III.
 4. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
 5. ADJUST ALL SEWER AND DRAIN FRAMES AND GRATES TO FINISH GRADE AND ENSURE THAT GRATES AND FRAMES ARE PROPERLY SEATED OUTSIDE.
 6. PROVIDE 4000PSI @ 28 DAYS CONCRETE, CEMENT TYPE I OR TYPE II FOR ALL CONCRETE DRAINAGE STRUCTURES.
 7. PLACE PIPES TO THE GRADERS AND ALIGNMENT AS SHOWN ON DRAWINGS WITH THE FOLLOWING TOLERANCES:
HORIZONTALLY ± 0.10'
VERTICALLY ± 0.05'
 8. PROVIDE CONSISTENT SLOPE TO STORM DRAINAGE STRUCTURES. INTENT IS TO AVOID ABRUPT GRADE CHANGES ADJACENT TO DRAINAGE STRUCTURES. NO SLOPES GREATER THAN 10:1.

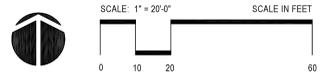
- ACCESSIBILITY INFORMATION:**
1. THE ELEVATION OF ALL EXTERIOR WALKS AND SLABS SHALL BE FLUSH WITH FINISH FLOOR ELEVATION AT ALL DOORS, AND SHALL SLOPE NO MORE THAN 2% WITHIN 9" OF THOSE DOORS. ELSEWHERE EXTERIOR WALKS AND SLABS SHALL CONFORM TO THE SPOT ELEVATIONS AND CONTOURS INDICATED AND IN NO CASE SHALL EXCEED 2% SLOPE EXCEPT AT CURBS RAMPS WHICH SHALL SLOPE 8.33% (MAX). CROSS SLOPE OF WALKWAYS/RAMPES SHALL NOT BE STEEPER THAN 1:20.
 2. GRATING LOCATED WITHIN ROUTE SHALL BE POSITIONED PERPENDICULAR TO DIRECTION OF THE TRAVEL. SLOT WIDTH SHALL NOT EXCEED 1/2" UNLESS OTHERWISE NOTED.
 3. PARKING SPACES AND ACCESSIBLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2% (1:50).
 4. TRANSITIONS FROM RAMPS TO WALKS, SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
 5. RAMPS TO BUILDING: WHERE INDICATED:
a. MINIMUM WIDTH 48" SEE PLAN FOR ACTUAL DIMENSION
b. SLOPE TO BE 1:12 MAXIMUM TO 1:20.
c. CROSS SLOPE 2% MAXIMUM
d. FLARED SIDES MINIMUM SLOPE 1:10.

SITE UTILITIES NOTES: REFER TO M & E DRAWINGS FOR DEMOLITION AND INSTALLATION OF NEW UTILITIES, SANITARY AND WATER LINES ARE SHOWN FOR COORDINATION ONLY.

1. CONTRACTOR SHALL CALL KENTUCKY 811 AT LEAST 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION, TO LOCATE AND MARK EXISTING UTILITIES.
2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFE GUARD UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE SITE CONTRACTOR WILL BE REQUIRED TO OBTAIN SUCH EQUIPMENT. IF SERVICE IS INTERRUPTED CONTRACTOR IS RESPONSIBLE FOR RESTORING SERVICE BY REPAIRING THE DAMAGED UTILITY AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
5. GRAVITY STORM AND SANITARY LINES SHALL BE INSTALLED PRIOR TO INSTALLATION OF WATER, ELECTRICAL, COMMUNICATION AND GEOTHERMAL LINES.

FIELD QUALITY CONTROL:
OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM THE SPECIAL INSPECTION AND QUALITY ASSURANCE TESTING AS REQUIRED IN ACCORDANCE WITH THE TEST SPECIFICATION OF KENTUCKY BUILDING CODE CHAPTER 17 AND EARTHWORK SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL, SCHEDULING, PLANNING AND INSPECTION TO ENSURE PROPER TESTING BY OWNERS TESTING AGENCY IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND EARTHWORK SPECIFICATION.

Kentucky 811
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Call before you dig.
Call 811 or 800-752-6007
www.kentucky811.org

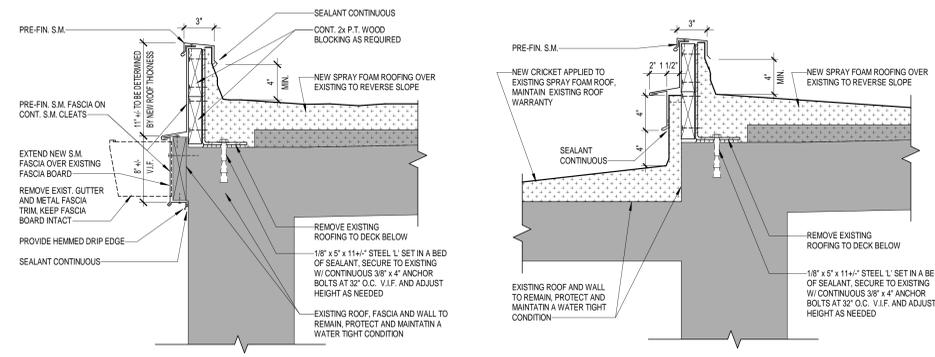


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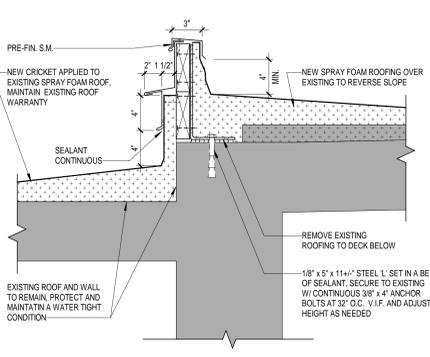
IMPORT SOILS
CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS TO IMPORT SOIL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATION AS REQUIRED TO ACHIEVE PROPOSED ELEVATION PRIOR TO BRINGING SOIL MATERIALS ON SITE. ANY OFF-SITE SOILS SHALL BE TESTED AND APPROVED BY THE OWNER TESTING AGENCY. IMPORT SOIL FILL SHALL BE UNIFORM AND CONSISTENT.

SOIL ALLOWANCES
INCLUDE AN ALLOWANCE BASED ON THE FOLLOWING WORK SCOPE. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID AN ALLOWANCE TO REMOVE AND DISPOSE OFF-SITE AN ADDITIONAL 150 CY OF UNSUITABLE SOIL, WHICH MAY BE ENCOUNTERED BELOW PLAN BOTTOM DEPTH. THE ALLOWANCE PRICE SHALL INCLUDE REPLACEMENT WITH 150 CY OF GDA PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND ON-SITE TESTING AGENCY RECOMMENDATIONS. ACTUAL VOLUMES IN THE ALLOWANCE SHALL BE MEASURED BY THE ON-SITE TESTING AGENCY AND THE CONTRACT WILL BE ADJUSTED USING UNIT PRICES.

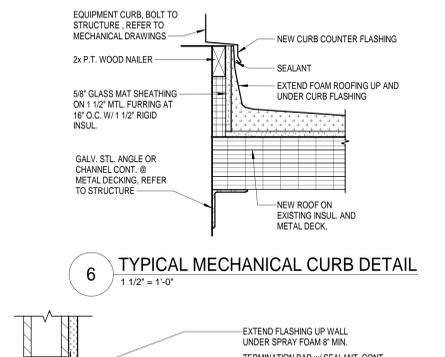
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| CHECKED | TSS/BKL | |
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| 1 | ADDENDUM #1 | 08-21-23 |
| 2 | ADDENDUM #2 | 08-23-23 |



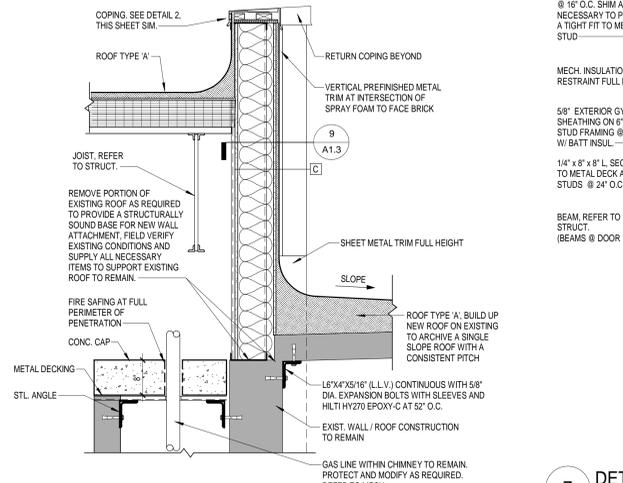
14 DETAIL
1 1/2" = 1'-0"



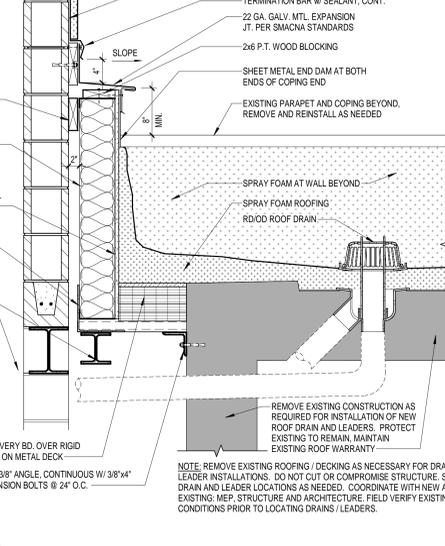
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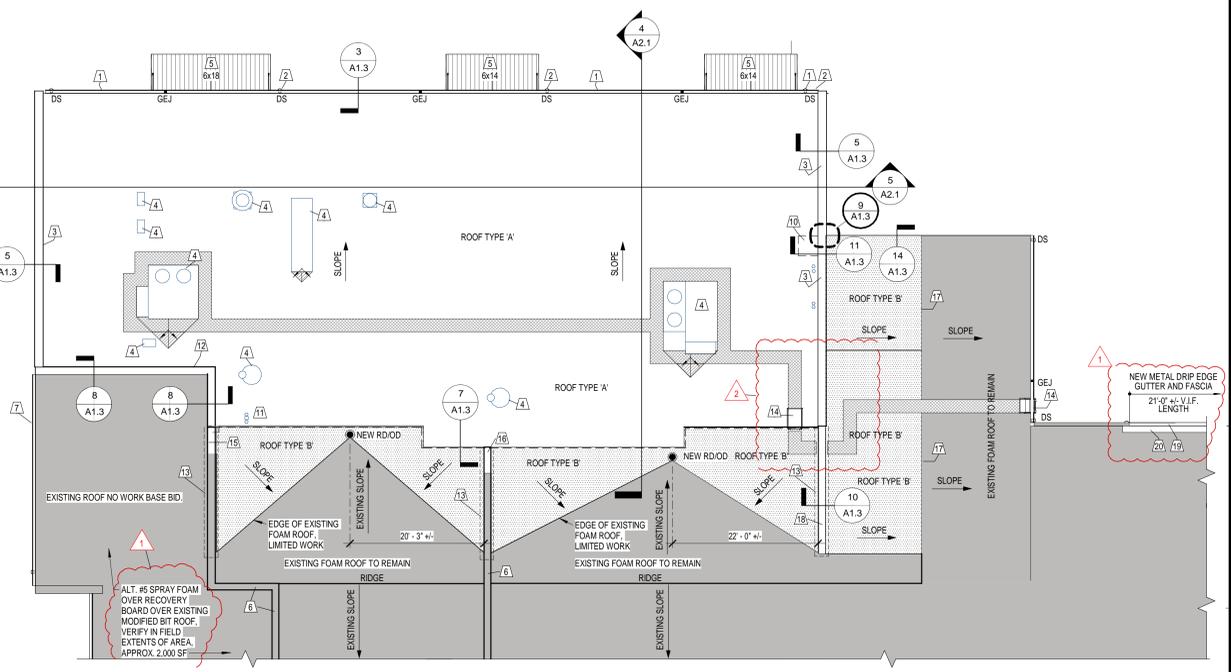
6 TYPICAL MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



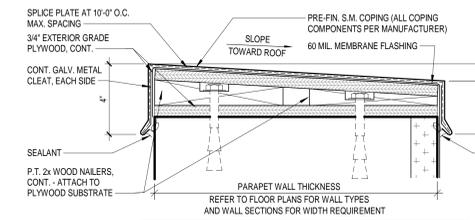
11 ROOF DETAIL
3/4" = 1'-0"



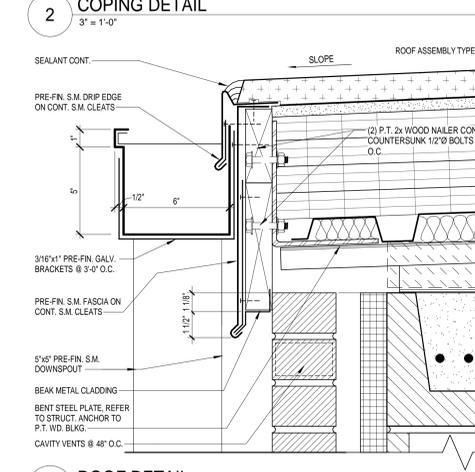
7 DETAIL
1" = 1'-0"



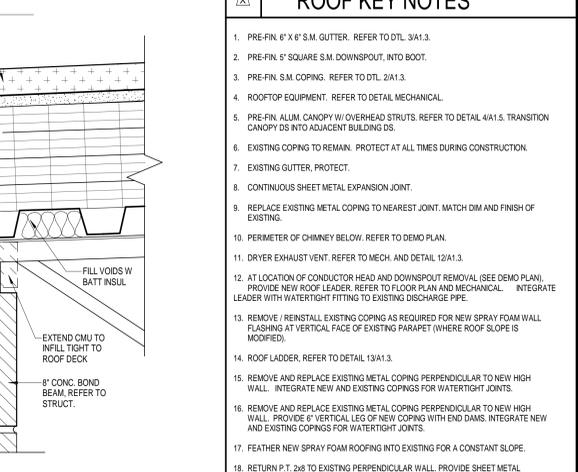
1 ROOF PLAN
3/32" = 1'-0"



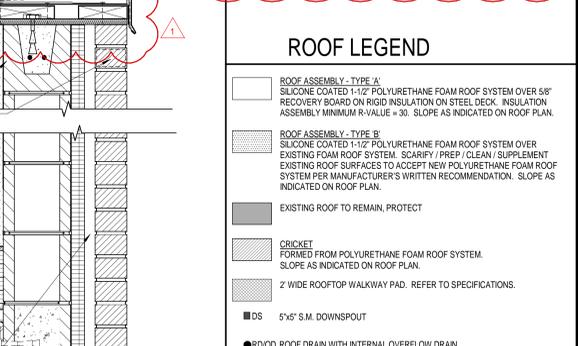
2 COPING DETAIL
3" = 1'-0"



3 ROOF DETAIL
3" = 1'-0"



4 DETAIL
1 1/2" = 1'-0"



5 ROOF DETAIL
1 1/2" = 1'-0"

GENERAL ROOF NOTES

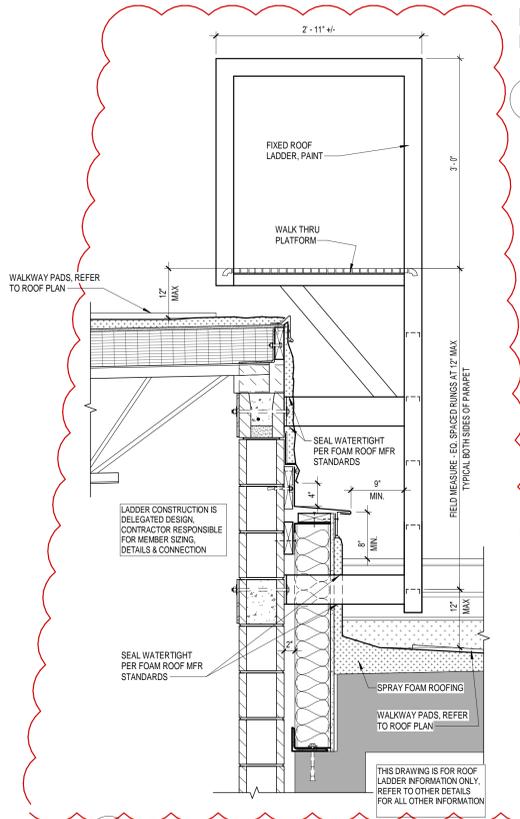
- A. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC STRUCTURAL ELEVATIONS.
- B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF MECHANICAL ITEMS THAT MAY NOT BE SHOWN ON THIS PLAN.
- C. FLASH ALL ROOF PENETRATIONS PER MANUFACTURER'S STANDARD DETAILS, U.N.O.
- D. THE ROOFING CONTRACTOR SHALL NOT CONCEAL ANY WEEPS, BRICK VENTS, EXPANSION JOINTS, OR FLASHINGS. ROOFING SHALL TERMINATE AS SHOWN ON DETAILS.
- E. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ROOFING FLASHING WITH OTHER TRADES FOR ADDITIONAL WORK REQUIRED.
- F. INSTALL CRICKETS TO MAINTAIN MINIMUM CLEARANCE TO MEMBRANE AS REQUIRED ON THE UPPER SIDE OF ALL EQUIPMENT CURBS, TYPICAL.
- G. REFER TO DETAILS 12/1.3 FOR TYPICAL PENETRATION DETAIL.
- H. REFER TO DETAIL 6/A1.3 FOR TYPICAL EQUIPMENT CURB DETAIL.
- I. ALL ROOF SLOPES ARE 1/4" FT. MIN.

ROOF KEY NOTES

1. PRE-FIN. 6" X 6" S.M. GUTTER. REFER TO DTL. 3/A1.3.
2. PRE-FIN. 9" SQUARE S.M. DOWNSPOUT, INTO ROOF.
3. PRE-FIN. S.M. COPING. REFER TO DTL. 2/A1.3.
4. ROOFTOP EQUIPMENT. REFER TO DETAIL MECHANICAL.
5. PRE-FIN. ALUM. CANOPY W/ OVERHEAD STRS. REFER TO DETAIL 4/A1.5. TRANSITION CANOPY DS INTO ADJACENT BUILDING DS.
6. EXISTING COPING TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
7. EXISTING GUTTER. PROTECT.
8. CONTINUOUS SHEET METAL EXPANSION JOINT.
9. REPLACE EXISTING METAL COPING TO NEAREST JOINT. MATCH DIM AND FINISH OF EXISTING.
10. PERIMETER OF CHIMNEY BELOW. REFER TO DEMO PLAN.
11. DRYER EXHAUST VENT. REFER TO MECH. AND DETAIL 12/A1.3.
12. AT LOCATION OF CONDUCTOR HEAD AND DOWNSPOUT REMOVAL, (SEE DEMO PLAN), PROVIDE NEW ROOF LEADER. REFER TO FLOOR PLAN AND MECHANICAL. INTEGRATE LEADER WITH WATERTIGHT FITTING TO EXISTING DISCHARGE PIPE.
13. REMOVE / REINSTALL EXISTING COPING AS REQUIRED FOR NEW SPRAY FOAM WALL FLASHING AT VERTICAL FACE OF EXISTING PARAPET (WHERE ROOF SLOPE IS MODIFIED).
14. ROOF LADDER. REFER TO DETAIL 13/A1.3.
15. REMOVE AND REPLACE EXISTING METAL COPING PERPENDICULAR TO NEW HIGH WALL. INTEGRATE NEW AND EXISTING COPINGS FOR WATERTIGHT JOINTS.
16. REMOVE AND REPLACE EXISTING METAL COPING PERPENDICULAR TO NEW HIGH WALL. PROVIDE 6" VERTICAL LEG OF NEW COPING WITH END DAMS, INTEGRATE NEW AND EXISTING COPINGS FOR WATERTIGHT JOINTS.
17. FEATHER NEW SPRAY FOAM ROOFING INTO EXISTING FOR A CONSTANT SLOPE.
18. RETURN P.T. 2x6 TO EXISTING PERPENDICULAR WALL. PROVIDE SHEET METAL FLASHING AND COUNTERFLASHING FOR WATERTIGHT JOINTS.
19. REMOVE PORTION OF EXISTING SPRAY FOAM ROOF AS REQUIRED FOR INSTALLATION OF NEW DRIP EDGE, FASCIA AND GUTTER TO MATCH EXISTING.
20. NEW DRIP EDGE, FASCIA AND GUTTER, MATCH EXISTING, REFER TO 12/A2.1.

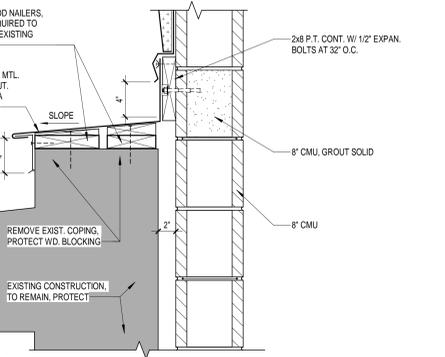
ROOF LEGEND

- ROOF ASSEMBLY - TYPE 'A'
SILICONE COATED 1-1/2" POLYURETHANE FOAM ROOF SYSTEM OVER 5/8" RECOVERY BOARD ON RIGID INSULATION ON STEEL DECK. INSULATION ASSEMBLY MINIMUM R-VALUE = 30. SLOPE AS INDICATED ON ROOF PLAN.
- ROOF ASSEMBLY - TYPE 'B'
SILICONE COATED 1-1/2" POLYURETHANE FOAM ROOF SYSTEM OVER EXISTING FOAM ROOF SYSTEM. SCARIFY / PREP / CLEAN / SUPPLEMENT EXISTING ROOF SURFACES TO ACCEPT NEW POLYURETHANE FOAM ROOF SYSTEM PER MANUFACTURER'S WRITTEN RECOMMENDATION. SLOPE AS INDICATED ON ROOF PLAN.
- EXISTING ROOF TO REMAIN, PROTECT
- CRICKET FORMED FROM POLYURETHANE FOAM ROOF SYSTEM. SLOPE AS INDICATED ON ROOF PLAN.
- 2" WIDE ROOFTOP WALKWAY PAD. REFER TO SPECIFICATIONS.
- DS 5"x5" S.M. DOWNSPOUT
- RD/OD ROOF DRAIN WITH INTERNAL OVERFLOW DRAIN
- VTR VENT THRU ROOF. REFER TO DETAIL 12/A1.3
- GEJ GUTTER EXPANSION JOINT PER SMACNA STANDARDS

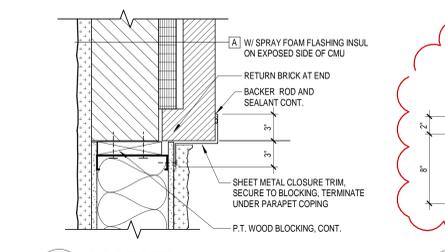


13 DETAIL
1" = 1'-0"

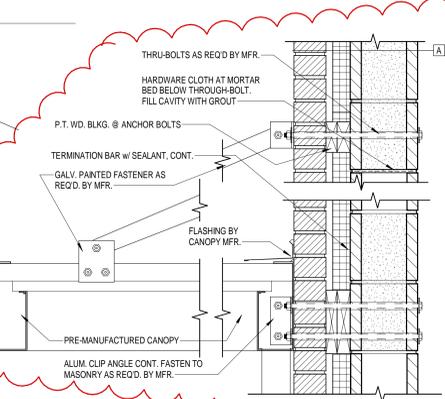
12 TYPICAL ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



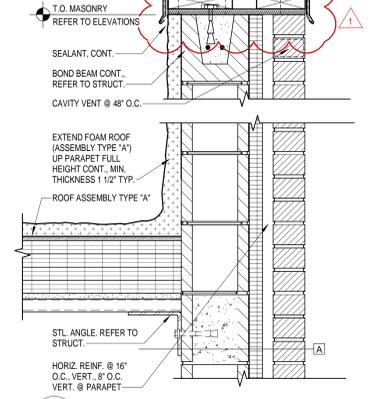
8 DETAIL
1 1/2" = 1'-0"



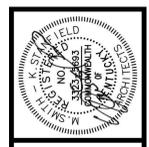
9 ROOF DETAIL
1 1/2" = 1'-0"



4 DETAIL
1 1/2" = 1'-0"



5 ROOF DETAIL
1 1/2" = 1'-0"



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GENERAL DEMOLITION NOTES

A. DEMOLITION REFERENCE NOTES FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED BUT SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS AND NEW WORK PRIOR TO BIDDING THE PROJECT.

B. THE INTENT OF THE DEMOLITION NOTES IS TO PROVIDE A GENERAL OUTLINE FOR THE CONTRACTOR OF ITEMS TO BE REMOVED AND/OR TURNED OVER TO THE OWNER AND TO ALLOW FOR THE NEW CONSTRUCTION AS OUTLINED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.

C. CAVITY WALLS AND SPACES BEHIND EXTERIOR FINISHES OR PARTIALLY REMOVED WALLS / ROOFS, ETC. SHALL BE PROTECTED FROM EXPOSURE TO WEATHER BY THE CONTRACTOR. WALLS/ROOFS, ETC. SHALL BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED WALLS, ROOFS, ETC. CAUSED BY THIS DEMOLITION OR WEATHER EXPOSURE OF ITEMS THAT ARE REMAIN.

D. INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO THIS RENOVATION PROJECT HAVE BEEN OBTAINED FROM ORIGINAL DRAWINGS PROVIDED BY HART CO. SCHOOLS AND FIELD OBSERVATIONS. THE INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR TO VERIFY ALL FIELD DIMENSIONS AND CONDITIONS.

E. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS AT EXISTING CONDITIONS REQUIRING PARTIAL OR COMPLETE REMOVAL AND/OR MODIFICATION TO COMPONENTS OR ASSEMBLIES PERTAINING TO EXISTING BUILDING STRUCTURE.

F. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.

G. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECTS TO CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF SUCH FINDINGS.

H. WHERE AN EXISTING WALL IS REMOVED AND NO NEW WALL IS SHOWN TO BE INSTALLED, REMOVE EXISTING WALL TO 8 INCHES BELOW ADJACENT FLOOR SLAB. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH. REFER TO NEW WORK PLANS.

I. ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SOAPEP IN OAU UNITS TOOTHED-IN INTO EXISTING MASONRY.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING AND REPAIRING DUE TO DEMOLITION AND/OR REMOVAL OF EQUIPMENT TO CREATE A FLUSH SMOOTH SURFACE PROPERLY PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. CONTRACTOR SHALL SOAP IN NEW CMU TO MATCH EXISTING ADJACENT AREAS.

K. REFER TO MECH/ELEC DRAWINGS FOR SPECIFIC NOTES REGARDING REMOVAL OF EXISTING MECH/ELEC ITEMS.

L. REFER TO STRUCTURAL DRAWINGS FOR NEW WORK (I.E. NEW FOOTING, ETC.) WHICH MAY REQUIRE DEMOLITION WORK IN ADDITION TO ITEMS NOTED ON THE ARCHITECTURAL DRAWINGS ALL SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR.

M. REFER TO CIVIL/SITE DRAWINGS FOR ADDITIONAL DEMOLITION OF SITE/CIVIL ITEMS.

N. CONTRACTOR TO PROVIDE ALL SHORING AND BRACING AS REQUIRED TO SECURE ADJACENT CONSTRUCTION DURING DEMOLITION AND SELECTED DEMOLITION WORK.

O. INFILL ALL EXISTING MASONRY OPENINGS FROM MEP DEMOLITION. OPENINGS LESS THAN 2" TO BE FILLED WITH BACKER ROD AND SEALANT. ANY LARGER OPENING TO BE FILLED WITH CMU. TOOTH IN WHERE EXPOSED TO VIEW.

PHASING NOTES (CONT.)

8. INTERRUPTION OF ANY OF THE BUILDING UTILITIES MAY ONLY OCCUR AFTER HOURS, DURING UNOCCUPIED PERIODS OR DURING HOLDINGS OR SCHEDULED VACATIONS. FULL SERVICE MUST BE RESTORED TO OCCUPIED AREAS OF THE FACILITY PRIOR TO RE-OCCUPANCY.

9. NO CONDITIONS WILL BE PERMITTED WHICH, IN THE OPINION OF THE OWNER, CODE OFFICIAL, OR THE ARCHITECT CONSTITUTE AN UNSAFE CONDITION OR HAZARD TO THE OCCUPANTS OR CONTINUE USE OF THE FACILITY.

10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SIGNAGE AND TRAFFIC CONTROL DEVICES REQUIRED THROUGH AND AROUND THE SITE. COORDINATE WITH THE OWNER.

11. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE SECURE AND SAFE AT ALL TIMES.

12. TEMPORARY PEDESTRIAN ROUTES SHALL BE ADA ACCESSIBLE.

13. ALL EXISTING DRIVES SHALL REMAIN OPEN WHILE SCHOOL IS IN SESSION.

14. APPROXIMATE SCHEDULE FOR HART CO. SCHOOLS: (SCHEDULE IS SUBJECT TO CHANGE. COORDINATE WITH OWNER)

| DATE | SCHEDULE | FACILITY PROFESSIONAL DEVELOPMENT ON-SITE |
|----------------------|---|---|
| AUGUST 15, 2023 | SCHEDULE | STUDENT'S COMMENCE NORMAL WEEKDAY CLASSROOM |
| AUGUST 22, 2023 | HOLIDAY | |
| SEPTEMBER 4, 2023 | HOLIDAY | |
| SEPTEMBER 22, 2023 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| OCTOBER 24, 2023 | FALL BREAK FOR STUDENTS AND FACULTY | |
| OCTOBER 20, 2023 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| NOVEMBER 7, 2023 | FACILITY PROFESSIONAL DEVELOPMENT ON-SITE | |
| NOVEMBER 22-24, 2023 | HOLIDAY | |
| DECEMBER 19, 2023 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| DECEMBER 20-29, 2023 | WINTER BREAK FOR STUDENTS AND FACULTY | |
| JANUARY 1, 2024 | HOLIDAY | |
| JANUARY 2, 2024 | STUDENT'S COMMENCE NORMAL WEEKDAY CLASSROOM | |
| JANUARY 15, 2024 | HOLIDAY | |
| JANUARY 26, 2024 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| FEBRUARY 16, 2024 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| MARCH 16, 2024 | FACILITY PROFESSIONAL DEVELOPMENT ON-SITE | |
| APRIL 1, 2024 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| APRIL 2, 2024 | SPRING BREAK | |
| APRIL 19, 2024 | EARLY RELEASE OF STUDENTS AND FACULTY | |
| MAY 21, 2024 | FACILITY PROFESSIONAL DEVELOPMENT ON-SITE | |
| MAY 27, 2024 | HOLIDAY | |
| MAY 28, 2024 | STUDENTS CONCLUDE NORMAL WEEKDAY CLASSROOM SCHEDULE | |

NOTE: THE FALL 2024 LEGRANDE SCHOOL SCHEDULE WILL BE SIMILAR TO THE DATES NOTED ABOVE. THE CONTRACTOR IS TO PERFORM WORK AS NEEDED SUCH THAT THE NORMAL SCHOOL AND AFTER-SCHOOL ACTIVITIES ARE NOT INTERRUPTED BY CONSTRUCTION OR RENOVATION.

WORK BY OTHERS TO BE COORDINATED BY CONTRACTOR

THE OWNER IS CONTRACTING WITH OTHERS IN SEPARATE BID DOCUMENTS TO RENOVATE AND IMPROVE THE EXISTING SANITARY TREATMENT SYSTEM OF LEGRANDE ELEMENTARY SCHOOL. DRAWINGS ARE INCLUDED WITH THESE DOCUMENTS FOR ~~YOUR CONFORMANCE~~. DOCUMENTS FOR SANITARY TREATMENT SYSTEM BY (PWS) / OTHERS ARE NOT UNDER SHERMAN CARTER BARNHART ARCHITECTS STAMP OR SIGNATURE. WORK ON THE RENOVATION AND IMPROVEMENT TO THE SANITARY TREATMENT SYSTEM BY OTHERS WILL COINCIDE WITH WORK FOR THE ADDITION & RENOVATION CONTAINED WITH THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS TO COORDINATE WORK WITH OWNER'S OTHER CONTRACTOR(S) AS REQUIRED FOR CONCURRENT WORK AND TO MAINTAIN THE SCHEDULE.

PHASE 1 - SANITARY TREATMENT RENOVATION

CONTRACTOR TO SUBSTANTIALLY COMPLETE SANITARY TREATMENT RENOVATION WITHOUT DISRUPTION OF THE EXISTING SANITARY TREATMENT SYSTEM OR NORMAL FUNCTIONS OF THE SCHOOL. SANITARY TREATMENT RENOVATIONS MUST BE SUBSTANTIALLY COMPLETE BY JANUARY 1, 2024.

PHASE 2 - BUILDING ADDITION AND NON-DISRUPTIVE MEP WORK

CONTRACTOR TO COMMENCE WORK ASSOCIATED WITH THE BUILDING ADDITION WITHOUT DISRUPTION OF THE EXISTING KITCHEN AND RESTROOMS ACCESS OR FUNCTIONS. THE EXISTING CAFETERIA MAY BE REDUCED BY APPROXIMATELY 20% OF AREA FOR LIMITED RENOVATION WORK (AND BARRICADES ERECTED TO SEGREGATE STUDENTS FROM WORK AREAS). MEP MAY NOT DISRUPT OWNER'S NORMAL USE AND DISRUPTIVE MEP WORK.

PHASE 3 - GANG RESTROOMS RENOVATION

THE EXISTING GANG RESTROOMS (ROOMS 115 & 116) AND MEP WORK THAT DISRUPT NORMAL USE OF THE FACILITY ARE TO REMAIN IN USE THROUGHOUT THE NORMAL ACADEMIC YEAR. RENOVATION MUST OCCUR AND BE COMPLETED DURING A SINGLE, LONG BREAK PERIOD.

PHASE 3 - RENOVATION

CONTRACTOR TO SUBSTANTIALLY COMPLETE BUILDING ADDITION. SCHOOL FORCES WILL VACATE THE EXISTING KITCHEN AND CAFETERIA SO THAT RENOVATION WORK MAY OCCUR IN THOSE AREAS.

NOTES:

a. REFERENCE TO "SUBSTANTIAL COMPLETION" ABOVE APPLIES TO BENEFICIAL USE OF THE OWNER OF THE SPACE BEING DESCRIBED. THE USE DOES NOT IMPLY SUBSTANTIAL COMPLETION OF THE OVERALL SCHEDULE AS IDENTIFIED IN THE PROJECT MANUAL.

b. THE CONTRACTOR IS TO MAINTAIN ALL MEANS OF EGRESS AND CLEAR PASSAGE THROUGH CONSTRUCTION AREAS AS NEEDED. PROVIDE BARRICADES, WALKING SURFACE AND SHELTERS AS NEEDED TO PROTECT STUDENTS, VISITORS AND FACULTY.

HAZARDOUS MATERIAL NOTES

DUE TO THE AGE OF THE EXISTING BUILDING, IT IS POSSIBLE HAZARDOUS MATERIALS MAY EXIST INCLUDING, BUT NOT LIMITED TO ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) AND OTHER TOXIC SUBSTANCES. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL, WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

1. THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER-BARNHART, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS. NOR IS SHERMAN-CARTER-BARNHART, PLLC A DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS.

2. IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED W/ HAZARDOUS MATERIALS.

3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS IN THE PROJECT.

4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS OR OTHER HAZARDOUS MATERIALS RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

SALVAGE NOTES

1. SALVAGE EXISTING STONE SILLS AT WINDOWS AND SILLS IDENTIFIED TO BE REMOVED FOR REUSE.

2. UPON CONTRACTOR'S COMMENCEMENT OF THE WORK, ANY EQUIPMENT, FURNISHINGS, CONSTRUCTION WITHIN THE AREAS OF RENOVATION ARE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE.

DEMOLITION LEGEND

--- EXISTING CONSTRUCTION TO BE REMOVED

--- EXISTING CONSTRUCTION TO REMAIN, UNLESS NOTED OTHERWISE

--- EXISTING DOOR AND / OR FRAME TO BE REMOVED, U.N.O. - REFER TO DEMOLITION KEY NOTES

--- EXISTING DOOR AND / OR FRAME TO REMAIN - REFER TO DEMOLITION KEY NOTES

PHASING NOTES

CONTRACTOR TO PHASE ALL WORK AT LEGRANDE ELEMENTARY SCHOOL TO MINIMIZE DISRUPTION OF NORMAL USE TO STUDENTS / FACULTY / VISITORS TO THE SCHOOL BUILDING AND PROPERTY. THE WORK IS TO BE PHASED AS FOLLOWS:

GENERAL PHASING NOTES:

- IN ALL PHASES OF THIS JOB, THE CONTRACTOR MUST FULLY COOPERATE WITH THE OWNER CLOSELY TO COORDINATE ACCESS TO THE SITE, MATERIAL STORAGE AND STAGING AREAS, INTERRUPTIONS OF UTILITIES, MAINTENANCE OF MEANS OF EGRESS AND SIMILAR ITEMS NECESSARY FOR THE OWNER'S SAFE OPERATION AND USE OF THE PREMISES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES AS REQUIRED DURING CONSTRUCTION. SHOULD ABUSE OF TEMPORARY UTILITIES BE NOTED BY THE OWNER AND ARCHITECT, THE GENERAL CONTRACTOR SHALL BE CHARGED ACCORDINGLY. ADDITIONAL OFF-SITE UTILITIES THAT MAY BE REQUIRED SUCH AS PROPANE GAS OR ADDITIONAL ELECTRIC METER SERVICE SHALL BE PROVIDED BY THE CONTRACTOR. SHOULD CONTRACTOR DISCONNECT ANY EXISTING UTILITIES FROM A PORTION OR PORTIONS OF THE BUILDING DURING CONSTRUCTION AND REQUIRE ADDITIONAL UTILITIES TO BE PROVIDED FOR TEMPORARY HEAT, LIGHTING, ETC., THIS COST SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL INSTALL TEMPORARY ENCLOSURES, DUST BARRIERS, AND EGRESS DOORS AS REQUIRED FOR CONTROL OF SOUND, DUST AND SEPARATION OF STUDENT POPULATION FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ADDITIONAL SAFETY MEASURES AND TEMPORARY ENCLOSURES.
- THE CONTRACTOR SHALL NOTIFY THE OWNER TWO (2) WEEKS PRIOR TO ANY ANTICIPATED UTILITY OUTAGES.
- ALL WORK TO BE COMPLETED WITHIN AREAS OF THE BUILDING THAT ARE TO REMAIN OPEN SHALL BE COORDINATED WITH THE OWNER AND BUILDING OCCUPANTS.
- THE MEANS OF EGRESS MUST BE MAINTAINED FROM ALL OCCUPIED PORTIONS OF THE FACILITY AT ALL TIMES TO THE SATISFACTION OF THE LOCAL BUILDING CODE ENFORCEMENT OFFICIALS AND THE OWNER.
- MINOR DEMOLITION AND RENOVATION MAY NOT OCCUR IN AN OCCUPIED AREA DURING OPERATING HOURS, BUT MAY OCCUR AFTER HOURS AND DURING UNOCCUPIED HOURS. SUCH WORK MUST BE SCHEDULED WITH THE OWNER A MIN. OF (2) WEEKS IN ADVANCE.

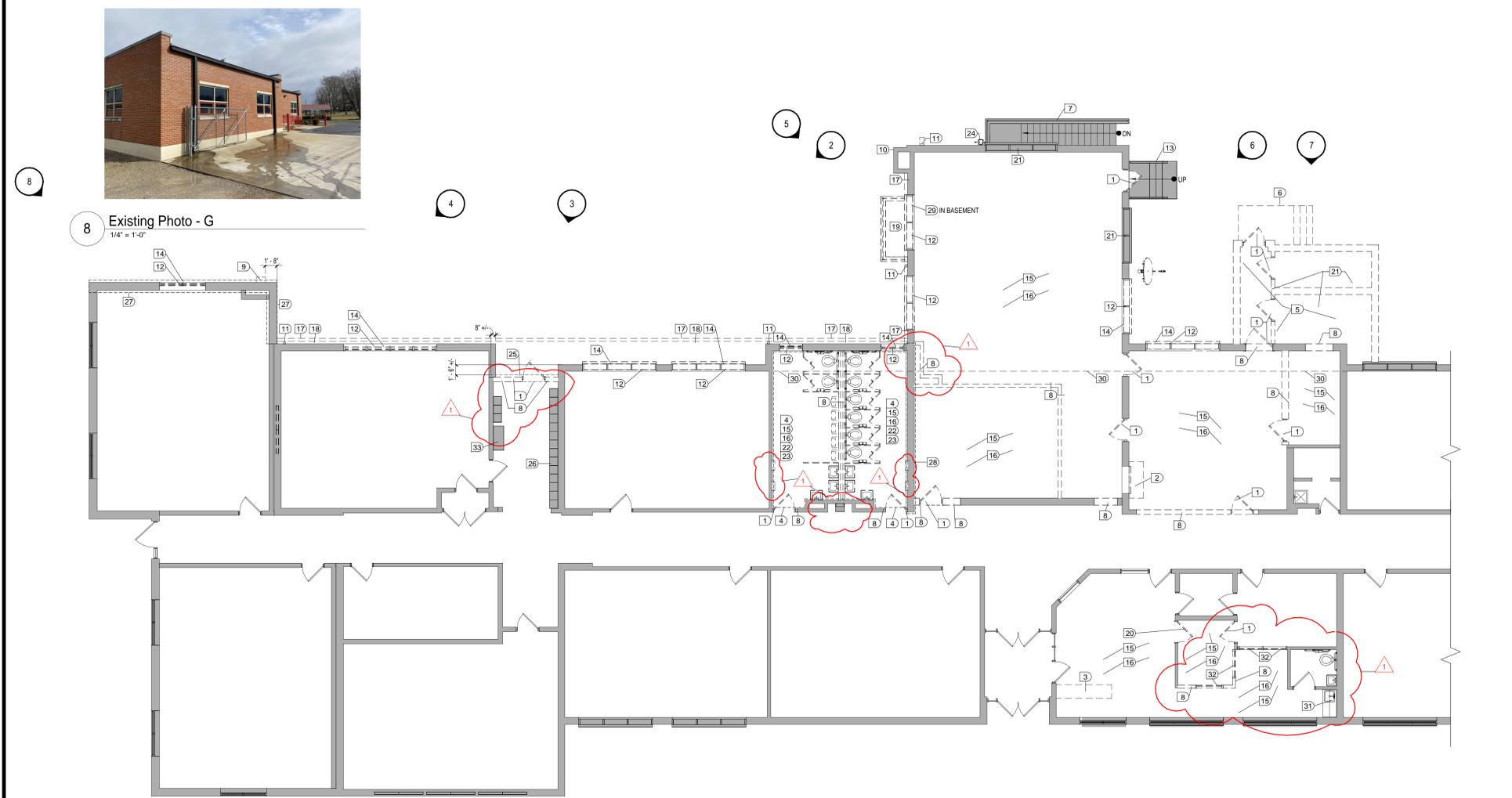
CONT.

DEMOLITION KEYNOTES

NOTE: SEQUENCE OF DEMOLITION WILL BE AFFECTED BY REQUIRED PROJECT PHASING. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL WORK FOR MINIMAL DISRUPTION TO THE OWNER AND THE NORMAL USE OF THE BUILDING. SEE PHASING NOTES THIS SHEET.

NOTE: ALL KEYNOTES MAY NOT APPLY TO THIS SHEET.

- DOOR/ FRAME/ HARDWARE ASSEMBLY TO BE REMOVED.
- ROLL-UP SHUTTER ASSEMBLY TO BE REMOVED.
- RECEPTION COUNTER AND WALL TO BE REMOVED.
- CONCRETE SLAB TO BE REMOVED. SAW CUT EDGE OF SLAB TO REMAIN.
- METAL BUILDING ADDITION ASSEMBLY (STRUCTURE, SYSTEMS AND FINISHES) TO BE REMOVED ENTIRELY. SELECTIVELY DEMOLISH TO PROTECT ADJACENT CONSTRUCTION TO REMAIN. MAINTAIN A WATERTIGHT AND SECURE BUILDING ENVELOPE.
- STOOP, STEPS AND RAILING ASSEMBLY TO BE REMOVED.
- AREAWAY / STEPS / RAILING ASSEMBLY TO REMAIN. PROTECT.
- WALL TO BE REMOVED AS REQUIRED FOR NEW OPENING. WHERE WALLS ARE BEING REMOVED ENTIRELY OR AT NEW DOOR OPENINGS REMOVE WALL TO 8" BELOW FINISHED FLOOR. WHERE WALLS ARE BEING REMOVED AND BEING REBUILT IN THE SAME PLACE, REMOVE WALL TO FINISH FLOOR.
- CONDUCTOR HEAD, DOWNSPOUT AND SPLASHBLOCK TO BE REMOVED.
- SELECT DEMOLISH TOP PORTION OF CHIMNEY AND FLUE ASSEMBLY TO 8" BELOW ROOF. PROVIDE TEMPORARY WEATHERTIGHT CAP.
- DOWNSPOUT AND SPLASHBLOCK TO BE REMOVED.
- REMOVE WINDOW, STONE SILL AND TRIM COMPLETELY. PREPARE OPENING FOR NEW WORK.
- CONCRETE STEPS & RAILINGS TO REMAIN. PROTECT.
- SALVAGE EXISTING STONE WINDOW SILLS. DELIVER SURPLUS MATERIAL TO OWNER'S IN COUNTY STORAGE FACILITY.
- BUILDING ASSEMBLY TO BE REMOVED.
- FLOORING AND BASE TO BE REMOVED. PROTECT ADJACENT FLOORING TO REMAIN. PREPARE SURFACES FOR NEW WORK.
- GUTTER ASSEMBLY TO BE REMOVED.
- ROOF OVERHANG TO BE SPECULATIVELY DEMOLISHED TO ALIGN WITH EXTERIOR FACE OF WALLS BELOW.
- CONCRETE AREAWAY ASSEMBLY TO BE REMOVED. REFER ALSO TO MECHANICAL.
- DOOR AND HARDWARE TO BE REMOVED. FRAME TO REMAIN. PROTECT.
- REMOVE SLABS/FOOTINGS/WALLS/ROOF OF EXISTING COOLER/FREEZER/CORRIDOR CONSTRUCTION.
- TOILET PARTITIONS TO BE REMOVED.
- TOILET ACCESSORIES TO BE REMOVED.
- GAS METER TO REMAIN. PROTECT.
- REMOVE STOOP. SAW CUT EDGE AT EXISTING TO REMAIN.
- EXISTING LOCKERS TO REMAIN. PROTECT.
- REMOVE METAL COPING AT PARAPET ABOVE. REFER TO ROOF PLAN, SHEET A1.3.
- REMOVE SPRAY FOAM ROOFING, GUTTER AND DOWNSPOUT. REFER TO ROOF PLAN, SHEET A1.3.
- REFER TO MEP FOR LOUVER REMOVAL IN BASEMENT. REFER ALSO TO STRUCTURAL FOR INFILL OF FORMER LOUVER OPENING.
- EDGE OF BASEMENT BELOW, SHOREBRACE BASEMENT DECKING AND WALLS AS REQUIRED.
- BASE, WALL CABINETS AND SINK TO REMAIN. PROTECT.
- REMOVE STOREFRONT.
- DISPLAY CASE. REMOVE AND RELOCATE AFTER CONSTRUCTION AS DIRECTED BY OWNER.



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NTS



4 Existing Photo - C
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3 Existing Photo - B
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REFER TO MEP TYP



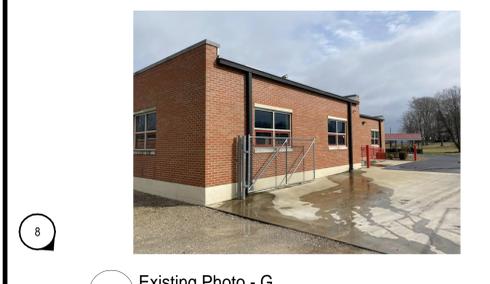
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Hart County Schools
LeGrande Elementary School Addition and Renovation
CMTA Engineers
Addendum #2
August 23, 2023



LeGrande Elementary School Addition and Renovation

For

Hart County Schools

Horse Cave, Kentucky

ADDENDUM #2

August 23, 2023

CMTA, INC.

Consulting Engineers

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Prospect, Kentucky 40059

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MEP Engineering | Performance Contracting | Net Zero Engineering | Technology | Commissioning

The following information supersedes or is in addition to information released in the 100% Construction Documents package dated June 12, 2023.

Mechanical Specification Items:

1. SECTION 200200 - SCOPE OF THE MECHANICAL WORK
 - a. REVISE and ADD to section 1.17:
 - 1.17 Complete exterior gravity and forced main sanitary sewer system connected to the wastewater treatment plant. Wastewater treatment and septic system plant by Ensafé.

2. SECTION 201300 - PIPE, PIPE FITTINGS AND PIPE SUPPORT
 - a. DELETE the following parts and all associated subsections:
 - Part 5.3.2 "Pex" domestic water piping
 - Part 5.4.10 Pipe Joining Methods
 - Part 5.5 Geothermal Piping

 - b. REVISE and ADD to section 6.1:
 - 6.1 SITE SANITARY SEWER:
 - 6.1.1 Class II reinforced concrete pipe (RCP) with tongue and groove gasketed joints conforming to ASTM C-443. (Pipes 12" and greater in size only.)
 - 6.1.2 Service weight cast iron piping with bell and spigot fittings complying with ASTM A 74. All joints shall be compression gasket type.
 - 6.1.3 Schedule 40 PVC pipe with drainage pattern fittings and solvent cement joints made in accordance with the Plumbing Code.
 - 6.1.4 SDR 35 PVC pipe extruded from Type 1, Grade 1 polyvinyl chloride material. PVC pipe shall have a bell type fitting on one end. All joints shall be solvent cement type. (Pipes 8" and greater size only.)
 - 6.1.5 SITE SANITARY SEWER - FORCE MAIN:
 - 6.1.5.1 Ductile cast iron pipe shall conform to ANSI A21.51 and AWWA C151. All ductile cast iron pipe thickness shall be designed according to ANSI A21.50 and AWWA C150 requirements.
 - 6.1.5.2 Ductile cast iron pipe and fittings shall receive the standard cement mortar lining with bituminous seal coat on the inside in accordance with ANSI A 21.4 requirements. Thickness of the lining shall be as set out in aforesaid specification. Pipe and fittings shall have standard coal tar or asphalt based bituminous outside coating a minimum of 1 mil thick.
 - 6.1.5.3 Fittings for ductile cast iron pipe shall be mechanical joint Class 250 gray iron conforming to ANSI A21.10 and AWWA C110 for short body cast iron fittings. Fittings shall be bituminous coated outside and shall receive the standard



cement mortar lining with bituminous seal coat on the inside as specified hereinbefore.

3. SECTION 250400 - CONTROL - DIRECT DIGITAL
 - a. Part 1.7 - BASE BID APPROVED MANUFACTURER'S. ADD Alerton and an approved base bid manufacturer.

Fire Protection Items:

1. Sheet FP-1.0
 - a. Added Fire protection scope to drawing.
2. Sheet FP-1.1
 - a. Added Fire protection scope to drawing.

Plumbing Items:

1. Sheet P1.0 – Plumbing Legend and Details
 - a. Added Sanitary Manhole Detail
 - b. Added Condensate Pit Detail

2. Sheet P2.2– First Floor Plan – Plumbing
 - a. Added 3” natural gas piping gas meter to be re-worked by local utility
 - b. Added 2” domestic water down in basement mech room and connected to main
 - c. Added gas to reworked gas fires kitchen equipment
 - d. Added floor drain for mech condensate pit
 - e. Re-worked kitchen waterlines and sanitary

3. Sheet P4.1 – Site Utility Plan – Plumbing
 - a. Reworked all site utility lines per ensafe instruction

4. Sheet P4.2 – Roof Plan – Plumbing
 - a. Re-worked Natural Gas Line to 3”
 - b. Routed 2-1/2” gas line DN to kitchen equipment.
 - c. Reworked gas to existing rtu's

Mechanical Items:

1. Sheet M1.1 – Mechanical Zoning Plan

- a. Added Humidity sensor in Kitchen 167 & Cafeteria 164.
2. Sheet M2.1 – First Floor Plan – Mechanical Demolition
 - a. Added demolition scope for the admin area.
 - b. Added Keynote D22.
3. Sheet M2.2 – First Floor Plan – Hydronics Demolition
 - a. Added demolition for existing console heat pumps condensate.
 - b. Added keynotes D3, D4, D17 and D23.
4. Sheet M3.1 – First Floor Plan – Mechanical New Work
 - a. Revised return air layout to move grille out of the Vestibule and into Kitchen 167.
 - b. Revised kitchen hood, exhaust air duct and outdoor air duct to account for opening behind the cooking line in Kitchen 167.
 - c. Added rebalance airflows to existing airflow devices.
 - d. Added exhaust in Classrooms 162 and Classroom 163.
 - e. Added new work scope for the admin area.
 - f. Added Keynotes A24, A25 and A26.
5. Sheet M3.2 – Roof Plan – Mechanical New Work
 - a. Revised MAU-1 & KEF-1.
 - b. Added Roof Curb Cap for removed kitchen exhaust fan.
 - c. Added Keynotes A27 and H34.
6. Sheet M4.1 – First Floor Plan – Hydronics New Work
 - a. Revised condensate piping for existing console heat pumps in Computer 112, Classroom 114 and corridor.
 - b. Added size for existing heat pump condensate in Guidance 156.
7. Sheet M5.1 – Mechanical Details
 - a. Revised Detail 4 – Typical Air Handler Condensate Drain Trap Detail.
8. Sheet M6.0 – Mechanical Schedules
 - a. Revised RTU-1 & RTU-2 on Rooftop Unit Schedule and Remarks.
 - b. Revised KH-1 & KH-2 on Kitchen Hood Schedule and Remarks.
 - c. Revised MAU-1 on Make-Up Air Unit Schedule Remarks.
 - d. Revised KEF-1 on Exhaust Fan Schedule and Remarks.
 - e. Added E-3 on Registers, Grilles and Diffusers Schedule.

Electrical Items:

5. Sheet ED.1 – First Floor Plan – Electrical Demolition
 - a. Added demolition scope for the admin area.
 - b. Added demolition of fire alarm system and all fire alarm devices.
 - c. Revised Keynotes D1 and D2.
 - d. Added Keynotes D9, D10 and D11.
6. Sheet ED.2 – First Floor Plan – Electrical Demolition



- a. Added new sheet to show demolition of fire alarm system and all fire alarm devices.
7. Sheet E1.1 – First Floor Plan - Lighting
 - a. Added downlight fixture D6 in soffit over door outside of Cafeteria 164.
 - b. Added new lighting and lighting controls in Reception 102, Principal 104 and Conference Room 106.
 - c. Added two fixture A1 in Cafeteria 164.
8. Sheet E2.1 – First Floor Plan – Power
 - a. Revised exhaust fan EF-1 and EF-2.
9. Sheet E2.2 – Roof Plan – Electrical
 - a. Revised mechanical equipment CU-1, KEF-1, MAU-1 and DEF-1.
 - b. Added duct detectors to the rooftop units.
10. Sheet E3.1 – First Floor Plan – Systems
 - a. Added access controls to doors at Reception 102.
 - b. Added new fire alarm system and fire alarm devices for all existing and new areas.
 - c. Added keynotes S2 and S3.
 - d. Added Basement view.
11. Sheet E3.2 – First Floor Plan – Systems
 - a. Added new sheet to show new fire alarm system and fire alarm devices.
12. Sheet E4.1 – Enlarged Kitchen Plan – Electrical
 - a. Revised Enlarged Kitchen Plan.
 - b. Revised Kitchen Equipment Connection Schedule.
 - c. Revised Detail 4, Kitchen Dishwasher Equipment Control Schematic.
 - d. Revised Detail 5, Kitchen Hood (KH-1) Control Schematic (For Type 1 Hood).
 - e. Revised Detail 7, Kitchen Hood (KH-2) Control Schematic (For Type 1 Hood).
13. Sheet E5.5 – Door Details
 - a. Added door detail for doors 102b and 102c.
14. Sheet E6.1 – Electrical Schedules
 - a. Added light fixture “D6” to Luminaire Schedule.
 - b. Revised Equipment Connection Schedule.
15. Sheet E6.2 – Panel Schedules
 - a. Revised panelboard schedules K1, L1, P1 and M1.
16. Sheet E7.1 – Electrical Distribution Riser Diagram
 - a. Revised feeder for panelboard K1 in Elec Riser – Feeder Schedule.
 - b. Revised K1 panelboard to be 600 amp and 2-section.
 - c. Revised feeder breaker in existing main switchboard (MDP) for panelboard K1.
17. Sheet E7.2 – Fire Alarm Riser Diagram
 - a. Revised Fire Alarm System Riser Diagram to show entire new system.

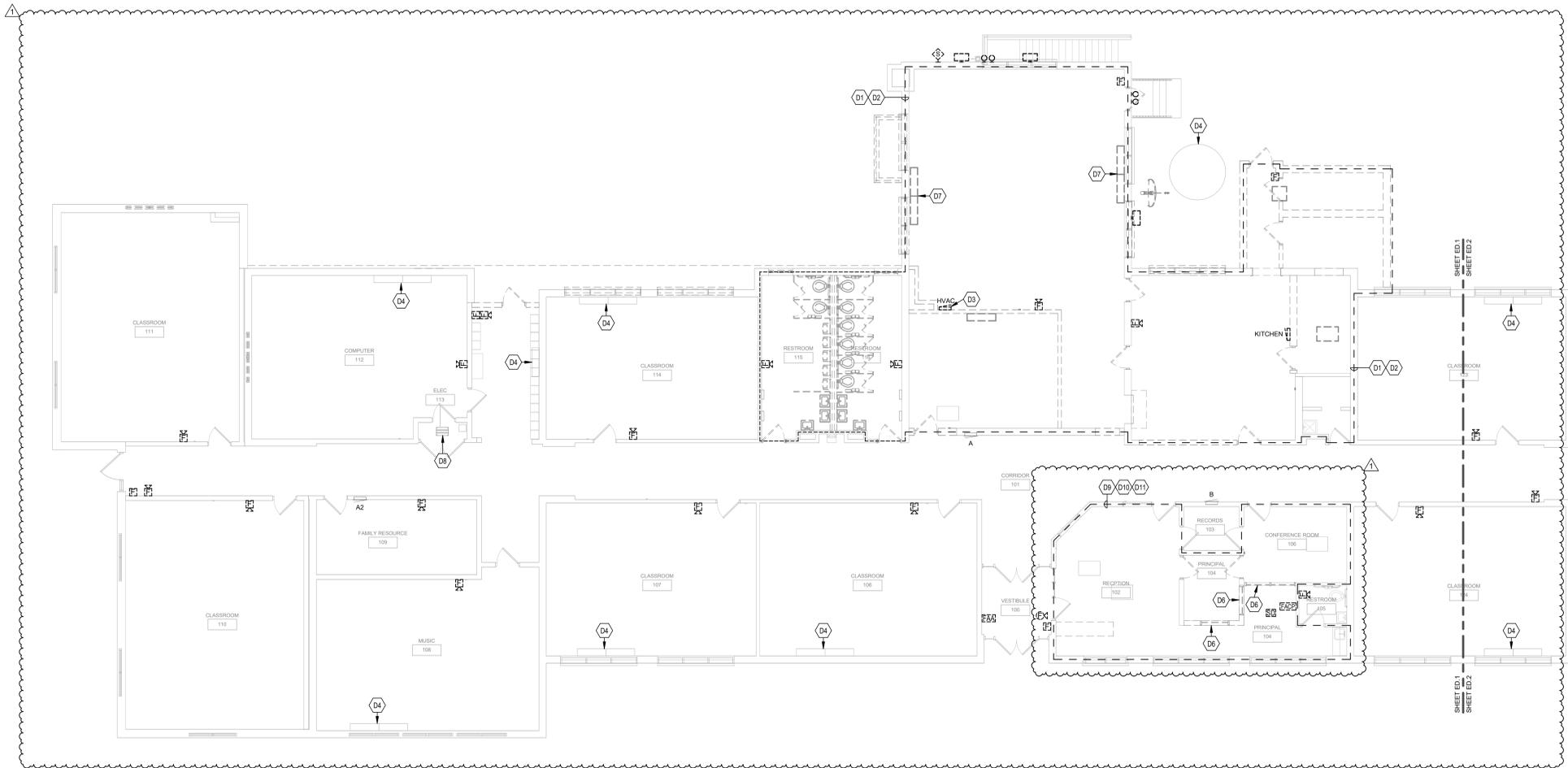
RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON THE BID.

GENERAL NOTES (DEMOLITION):

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND GRAY SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- C. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- D. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- E. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE). WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- G. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- H. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- I. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- J. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- K. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- L. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPEWRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

KEYNOTES

- D1 ALL MECHANICAL UNIT(S) IN THIS AREA SHALL BE DEMOLISHED COMPLETE. REMOVE ALL WIRING, CONDUIT, DISCONNECTS, ETC. ASSOCIATED WITH UNIT(S) COMPLETELY BACK TO SOURCE. COORDINATE DEMOLITION OF POWER TO ALL HVAC CONTROL DEVICES BEING REMOVED WITH MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL DRAWINGS.
- D2 ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, DATA DEVICES, FIRE ALARM DEVICES, FIRE ALARM SYSTEMS, ETC. IN THIS AREA TO BE DEMOLISHED COMPLETE. ALL ASSOCIATED CONDUIT AND WIRING TO BE COMPLETELY REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- D3 PANELBOARD "HVAC" TO BE DEMOLISHED COMPLETE. EXISTING CABLE AND CONDUIT FEEDING FROM EXISTING SWITCHBOARD TO PANELBOARD TO BE DEMOLISHED COMPLETE. ALL EXISTING LOADS TO REMAIN TO BE ROUTED TO NEW PANELBOARD LOCATION. SEE NEW WORK PLAN FOR NEW LOCATION.
- D4 EXISTING MECHANICAL EQUIPMENT TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- D6 ALL EXISTING RECEPTACLES, DATA DEVICES, FIRE ALARM DEVICES, FIRE ALARM SYSTEMS, ETC. ON THIS WALL TO BE DEMOLISHED COMPLETE. ALL ASSOCIATED CONDUIT AND WIRING TO BE COMPLETELY REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- D7 EXISTING MECHANICAL EQUIPMENT TO BE REUSED IN NEW LOCATION. REMOVE ALL WIRING, CONDUIT, DISCONNECTS, ETC. ASSOCIATED WITH UNIT(S) COMPLETELY BACK TO SOURCE. COORDINATE DEMOLITION OF POWER TO ALL HVAC CONTROL DEVICES BEING REMOVED WITH MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL DRAWINGS.
- D8 EXISTING IDF RACK TO REMAIN.
- D9 ALL EXISTING LIGHTING FIXTURES IN THIS AREA TO BE DEMOLISHED COMPLETE. ALL ASSOCIATED CONDUIT AND WIRING TO BE COMPLETELY REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- D10 REMOVE EXISTING WALL SWITCHES IN THIS AREA. ROUGH-IN TO REMAIN FOR INSTALLATION OF NEW SWITCH AS PART OF NEW WORK. PROVIDE SINGLE GANG MUD RING AS REQUIRED.
- D11 SUPPORT EXISTING CEILING DEVICES IN THIS AREA. PROTECT AND PLACE BACK INTO CEILING ONCE NEW CEILING INSTALLATION IS COMPLETE. CLEAN DEVICES/EQUIPMENT PRIOR TO INSTALLATION. CONDUIT, WIRING, JUNCTION BOXES SHALL REMAIN FOR RECONNECTION TO EXISTING DEVICES AS REQUIRE, UNLESS OTHERWISE NOTED.



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"



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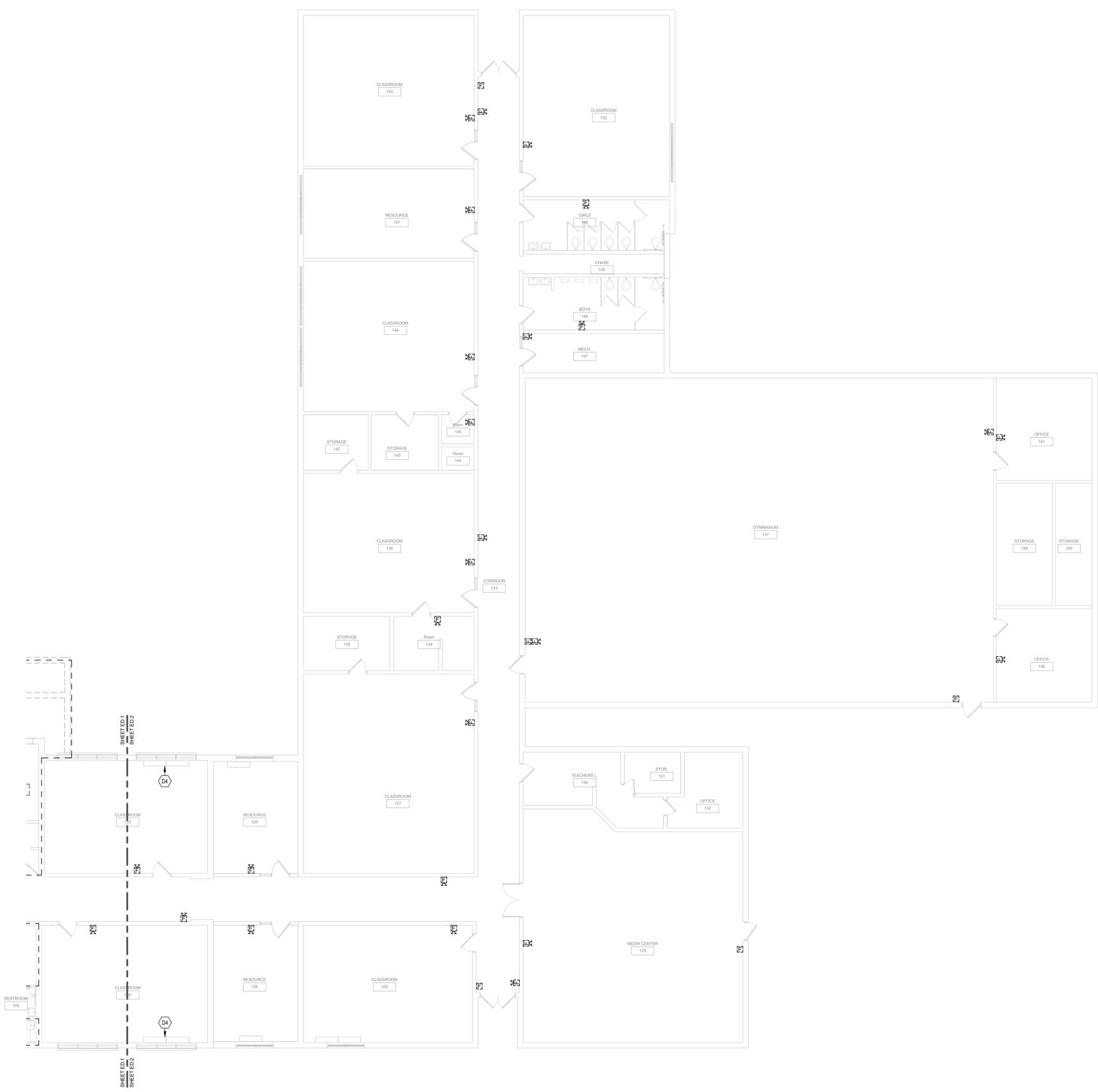
ED.2

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KEYNOTES

- D4 EXISTING MECHANICAL EQUIPMENT TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"



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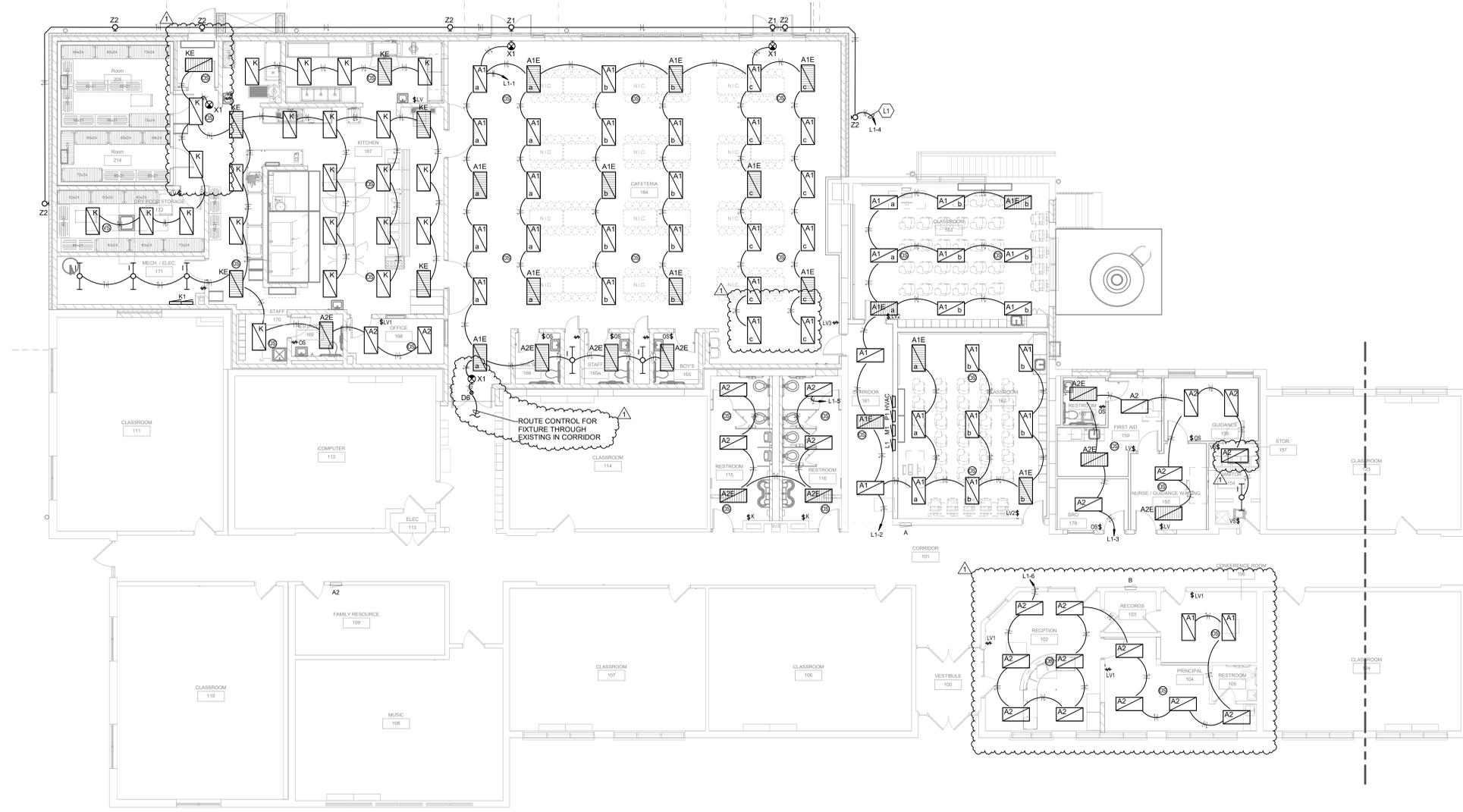
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- GENERAL NOTES (LIGHTING):**
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
 - CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C. #210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
 - IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
 - LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
 - LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
 - LUMINAIRES INDICATED WITH MULTILEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
 - ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
 - RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

- KEYNOTES**
- ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTRACTOR. REFER TO DETAIL 3, SHEET ES.1.



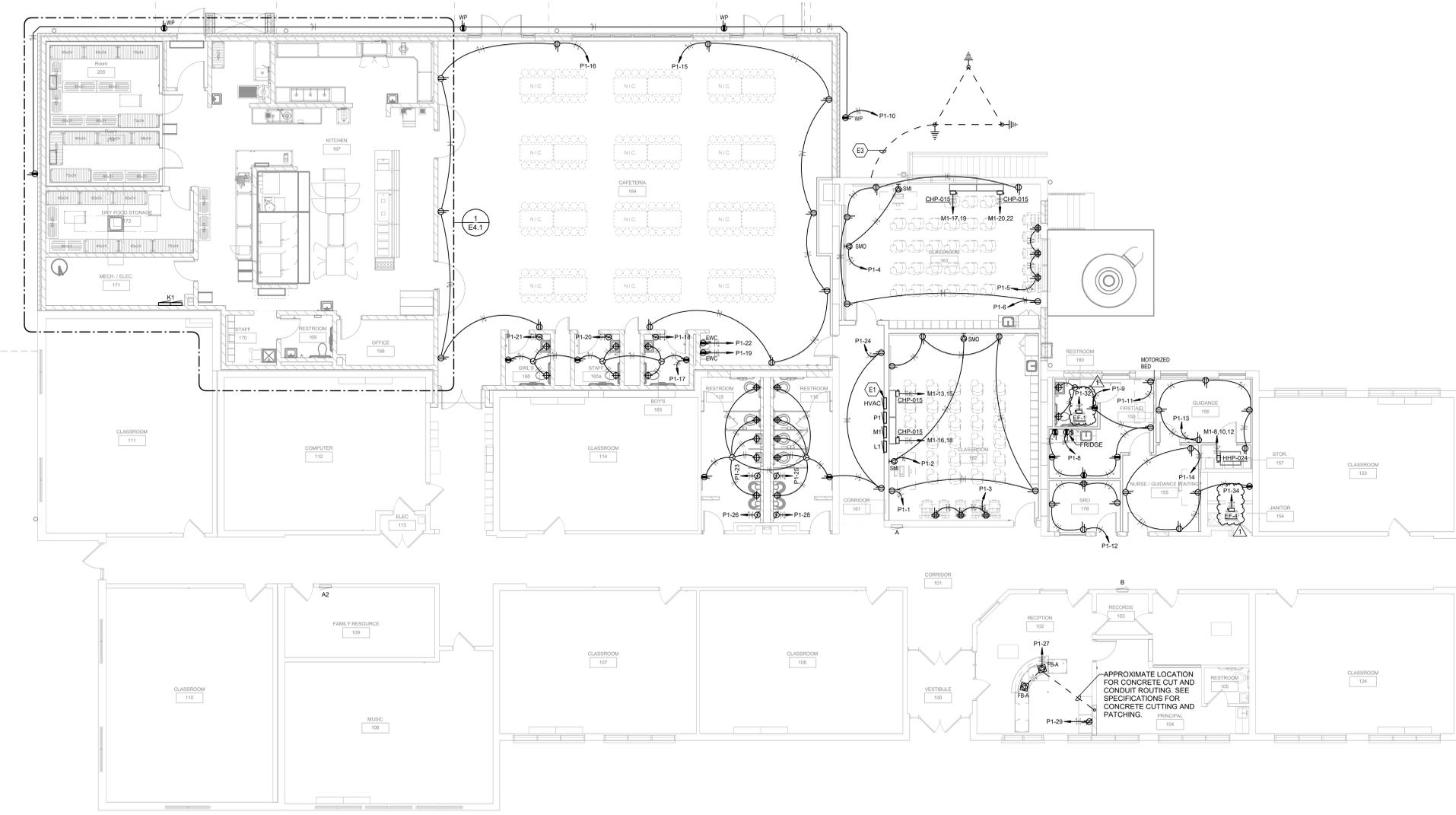
1 FIRST FLOOR - LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER):

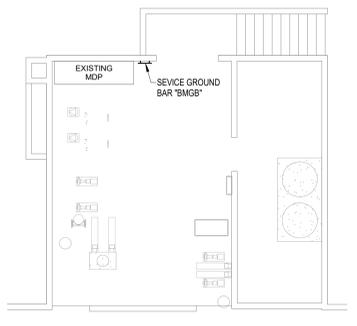
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- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

KEYNOTES

- E1 NEW PANELBOARD "HVAC" ALL EXISTING BRANCH CIRCUITS TO BE REFEED BACK INTO PANELBOARD. PROVIDE NEW BREAKERS IN PANELBOARD TO MATCH DEMOLISHED.
- E3 PROVIDE ONE (1) #500 Kcmil GROUND FROM NEW GROUND BAR AT EXISTING MDP TO THREE (3) 5/8" x 10'-0" COPPERWELD CHEMICAL GROUND RODS AS REQUIRED (REFER TO SHEET E5.4). CONTRACTOR SHALL TEST GROUND IMPEDANCE LEVEL AND IF NOT 1 Ohm, CONTRACTOR SHALL ADD GROUND RODS AS NECESSARY TO MEET THE REQUIREMENT. FIELD VERIFY BEST LOCATION FOR GROUND RODS ON SITE PRIOR TO CONSTRUCTION. PLACE BARE COPPER BELOW SERVICE SECONDARIES WHERE RUN IN SAME TRENCH. IN ADDITION, CONNECT TO WATER LINE AT FIRE PROTECTION FIT AS REQUIRED.



1 FIRST FLOOR - POWER
SCALE: 1/8" = 1'-0"



2 BASEMENT - POWER
SCALE: 1/8" = 1'-0"



ROOF PLAN - ELECTRICAL

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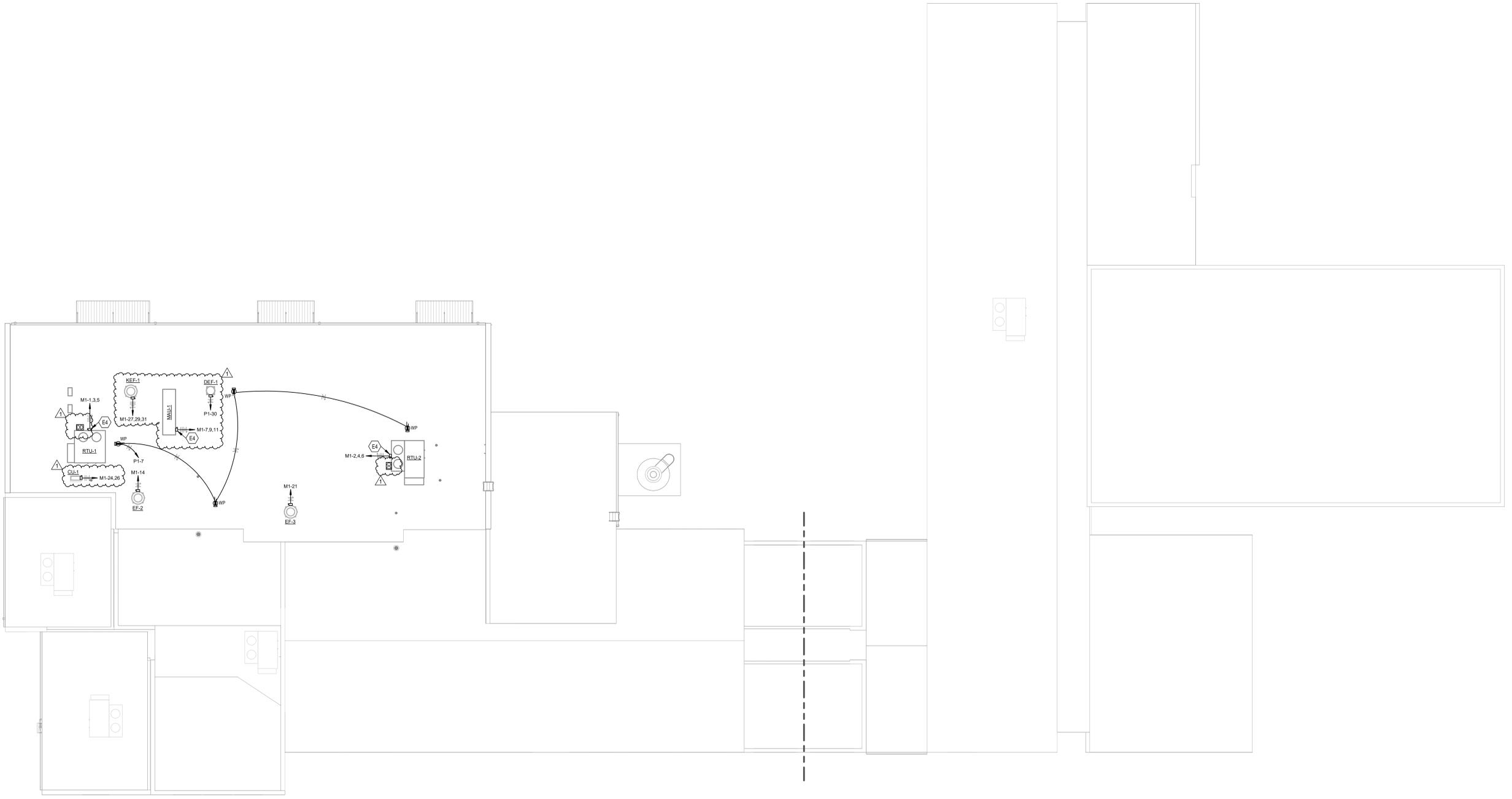
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GENERAL NOTES (POWER):

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- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
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KEYNOTES

- E4 ROUTE FEEDER TO PANEL THROUGH INSIDE OF ROOF CURB. DO NOT ROUTE THROUGH ROOF.



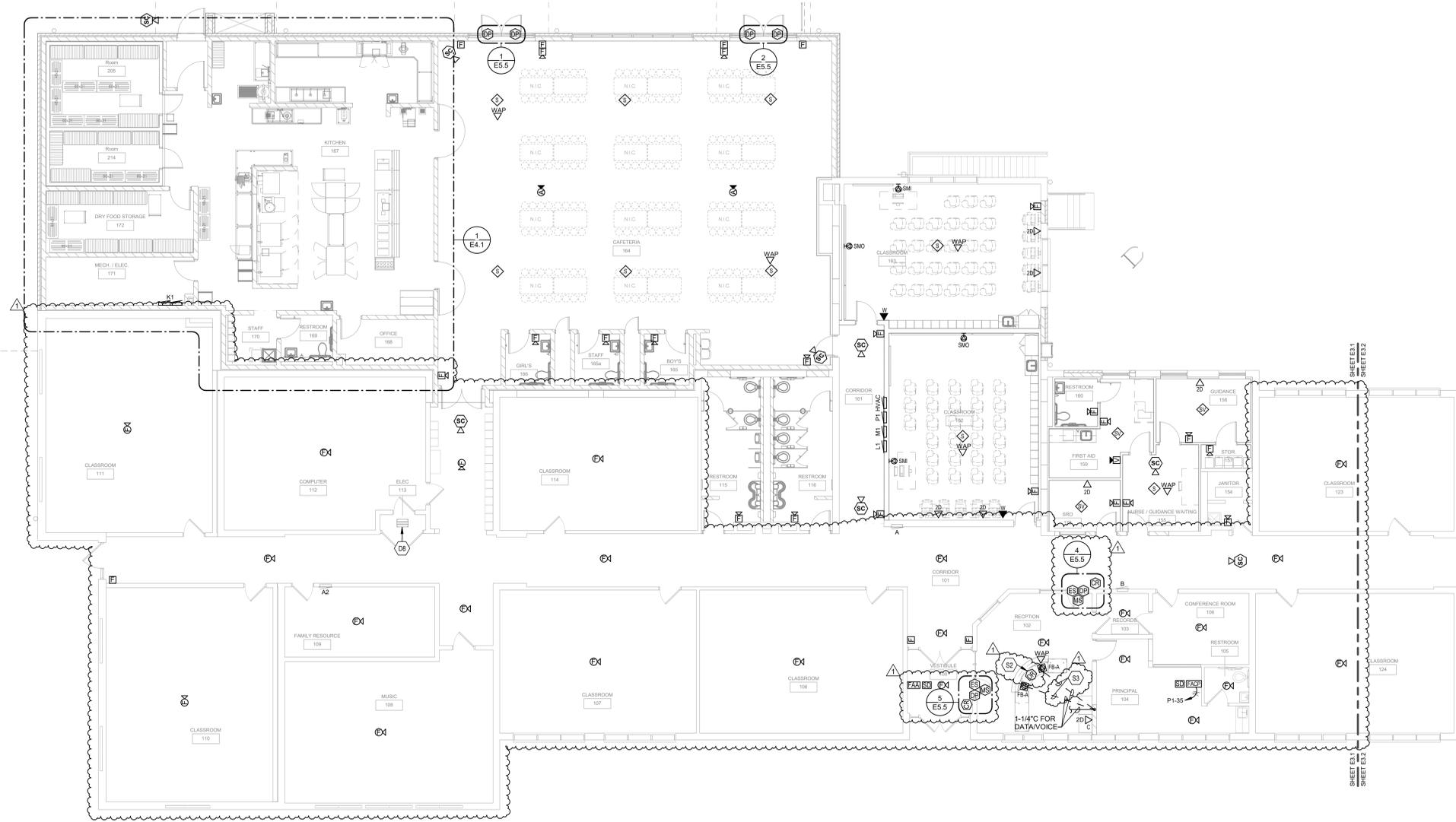
1 ROOF PLAN - ELECTRICAL
SCALE: 3/32" = 1'-0"

GENERAL NOTES (SYSTEMS):

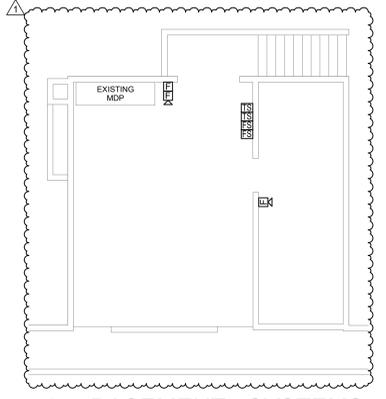
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- REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES

- D8 EXISTING IDF RACK TO REMAIN.
- S2 DOOR RELEASE BUTTON TO CONTROL TWO (2) DORRS INTO RECEPTION. PROVIDE LOW-VOLTAGE WIRING AND CONDUIT FOR PUSH BUTTONS LOCATED AT RECEPTION DESK TO POWER SUPPLY FOR CONTROL OF TWO (2) DOORS IN AREA. COORDINATE ALL REQUIREMENTS PRIOR TO CONSTRUCTION WITH ACCESS CONTROL VENDOR. BUTTONS TO BE LABELED FOR EACH DOOR.
- S3 APPROXIMATE LOCATION FOR CONCRETE CUT AND CONDUIT ROUTING. SEE SPECIFICATIONS FOR CONCRETE CUTTING AND PATCHING.



1 FIRST FLOOR PLAN - SYSTEMS
SCALE: 1/8" = 1'-0"



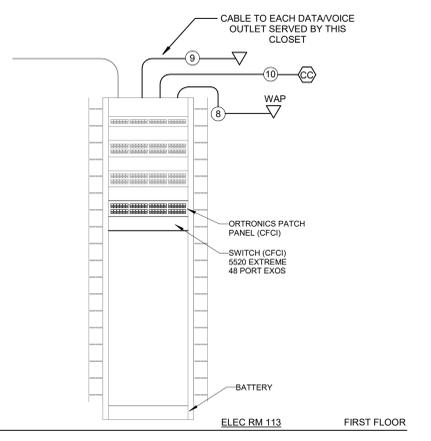
3 BASEMENT - SYSTEMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES (COMM RISER):

- ALL PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE FIRE STOPPED BY APPROVED METHOD. INSTALL FIRE STOP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- TOTAL DISTANCE FROM HORIZONTAL PATCH PANEL OR CROSS CONNECT TO WORKSTATION OUTLET SHALL NOT EXCEED 275'.
- PROVIDE #2 AWG GROUND TO ALL RACKS AND WALL MOUNTED EQUIPMENT. REFER TO GROUNDING DIAGRAM AND PLANS FOR GROUNDING BUS REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE PATCH PANELS, 1 PORT PER EACH JACK WITH 25% SPARE CAPACITY. ALL CABLING SHALL TERMINATE ON RACK-MOUNT PATCH PANELS. ALL HORIZONTAL CABLING SHALL BE FULLY TERMINATED.
- ALL CABLING SHALL BE ROUTED IN CONDUIT FROM DEVICE TO J-HOOKS.
- PROVIDE VERTICAL CABLE MANAGEMENT BETWEEN EACH EQUIPMENT RACK AND AT END OF EACH EQUIPMENT RACKS.
- ALL DROP TYPED SHALL BE EVENLY DISTRIBUTED ACROSS THE PATCH PANELS AND ADJACENT TO NEARBY DROPS.
- PROVIDE TWO (2) CAT6A CABLE TO EACH WIRELESS ACCESS POINT (WAP).
- PROVIDE CAT 6 CABLING TO ALL DATA/VOICE OUTLETS.
- PROVIDE RISER RATED LOW-VOLTAGE CABLING.
- CONTRACTOR TO PROVIDE ALL PATCH CABLES IN CLOSET.

CABLE KEYNOTES:

- EXISTING FIBER FROM MDF.
- PROVIDE TWO (2) CAT6A COPPER CABLE TO EACH WIRELESS ACCESS POINT (WAP).
- PROVIDE ONE (1) CAT6 COPPER CABLE PER EACH DATA/VOICE JACK.
- PROVIDE ONE (1) CAT6 COPPER CABLE TO EACH CCTV.



2 COMMUNICATIONS RISER DIAGRAM
NO SCALE



| | |
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| JOB NO. | 1506.2 |
| DATE | 08/03/2023 |
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| No. | Description | Date |
| 1 | ADDENDUM #2 | 08-23-23 |

GENERAL NOTES (SYSTEMS):

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION; PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES

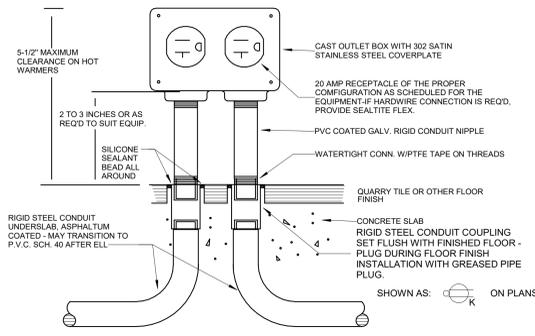


1 FIRST FLOOR PLAN - SYSTEMS
SCALE: 1/8" = 1'-0"

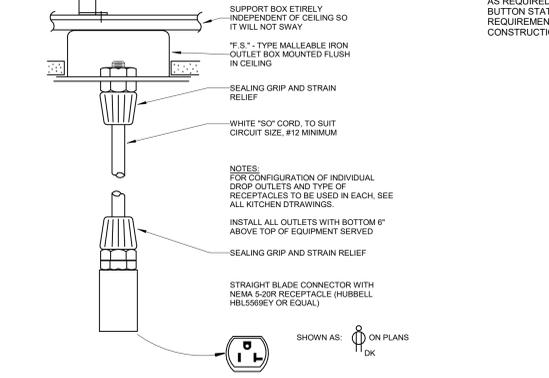
ELEC - KITCHEN EQUIPMENT CONNECTION SCHEDULE

| EQUIP ID | DESCRIPTION | CONNECTION TYPE | ELECTRICAL ROUGH-IN | | | | REMARKS |
|----------|---|------------------|---------------------|---------|-------|----|---|
| | | | MOUNTING HEIGHT | VOLTAGE | POLES | HP | |
| K-1 | CASHER COUNTER | FLOOR RECEPTACLE | PED | 120 | 1 | | |
| K-3 | COLD FOOD COUNTER | RECEPTACLE | PED | 208 | 2 | | NEMA 6-15R |
| K-4 | HOT FOOD COUNTER | RECEPTACLE | PED | 208 | 2 | | 6.24 kVA NEMA 6-15R |
| K-5 | MILK COOLER | RECEPTACLE | 18" | 120 | 1 | | 0.26 kVA NEMA 5-15P |
| K-8 | GARBAGE DISPOSER | DIRECT | 18" | 208 | 3 | | 1.30 kVA |
| K-10a | DISHWASHER (CONVEYOR) | DIRECT | 66" | 208 | 3 | | 19.82 kVA |
| K-10b | DISHWASHER (BOOSTER HEATER) | DIRECT | 66" | 208 | 3 | | 30.23 kVA |
| K-13a | ICE MAKER & BIN (EVAPORATOR/COMPRESSOR) | DIRECT | 48" | 120 | 1 | | 1.43 kVA |
| K-13b | ICE MAKER & BIN (BIN/DISPENSOR) | RECEPTACLE | 48" | 120 | 1 | | 0.19 kVA NEMA 5-15P |
| K-16 | PASS THRU HOLDING/PROOFING CABINET | RECEPTACLE | CEILING | 120 | 1 | | 2.87 kVA NEMA 5-20P |
| K-18 | PASS THRU REFRIGERATOR | RECEPTACLE | CEILING | 120 | 1 | | 1.03 kVA NEMA 5-15P |
| K-20a | COMBI OVEN (DOUBLE STACK, TOP UNIT) | RECEPTACLE | 42" | 208 | 2 | | 1.88 kVA |
| K-20b | COMBI OVEN (DOUBLE STACK, BOTTOM UNIT) | RECEPTACLE | 12" | 208 | 2 | | 1.88 kVA |
| K-22 | OVEN, MICROWAVE | RECEPTACLE | 48" | 208 | 2 | | 3.75 kVA NEMA 6-20 |
| K-23 | HOT WATER DISPENSER | DIRECT | 48" | 208 | 2 | | 10.06 kVA |
| K-25 | CONVECTION OVEN | RECEPTACLE | 42" 112" | 120 | 1 | | 0.92 kVA |
| K-26 | TILTING KETTLE, GAS | RECEPTACLE | 42" | 120 | 1 | | 0.90 kVA |
| K-28 | FOOD PROCESSOR | RECEPTACLE | PED | 120 | 1 | | 1.18 kVA |
| K-30 | GARBAGE DISPOSER | DIRECT | 18" | 208 | 3 | | 1.30 kVA |
| K-32 | CUTTERMIXER, VERTICAL | RECEPTACLE | 36" | 208 | 3 | | 10.81 kVA |
| K-38 | FOOD SLICER | RECEPTACLE | PED | 120 | 1 | | 4.94 kVA |
| K-39 | COOLER (CONDENSING UNIT) | DIRECT | VERIFY | 208 | 3 | | 5.40 kVA LOCATE DISCONNECT IN A REDILY ACCESSIBLE LOCATION. |
| K-40 | COOLER (EVAPORATOR) | DIRECT | DFA | 120 | 1 | | 0.14 kVA VERIFY CONNECTIONS WITH OWNER. |
| K-41 | COOLER (LIGHTS) | DIRECT | DFA | 120 | 1 | | 0.50 kVA VERIFY CONNECTIONS WITH OWNER. |
| K-42 | COOLER (DOOR HEATER) | DIRECT | DFA | 120 | 1 | | 0.50 kVA VERIFY CONNECTIONS WITH OWNER. |
| K-43 | FREEZER (CONDENSING UNIT) | DIRECT | VERIFY | 208 | 3 | | 8.90 kVA LOCATE DISCONNECT IN A REDILY ACCESSIBLE LOCATION. |
| K-44 | FREEZER (EVAPORATOR) | DIRECT | DFA | 120 | 1 | | 0.50 kVA VERIFY CONNECTIONS WITH OWNER. |
| K-45 | FREEZER (LIGHTS) | DIRECT | DFA | 120 | 1 | | 0.50 kVA VERIFY CONNECTIONS WITH OWNER. |
| K-46 | FREEZER (DOOR HEATER) | DIRECT | DFA | 120 | 1 | | 0.50 kVA VERIFY CONNECTIONS WITH OWNER. |

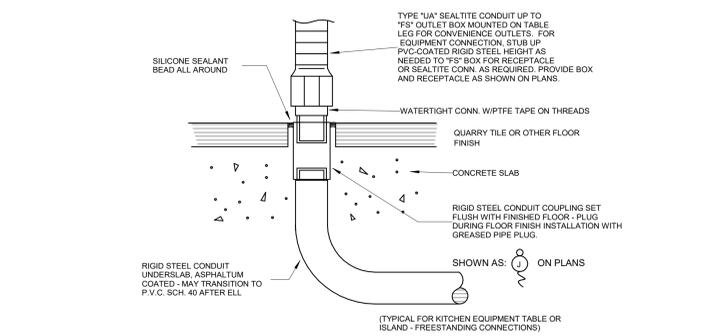
2 KITCHEN TYPE FLOOR STUB-UP OUTLET
NO SCALE



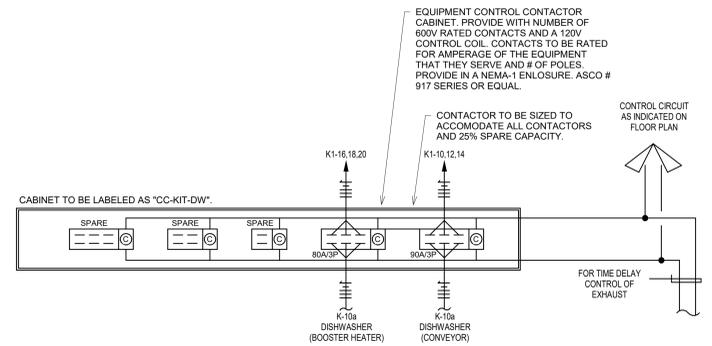
6 TYPICAL CEILING OUTLET DROP DETAIL
NO SCALE



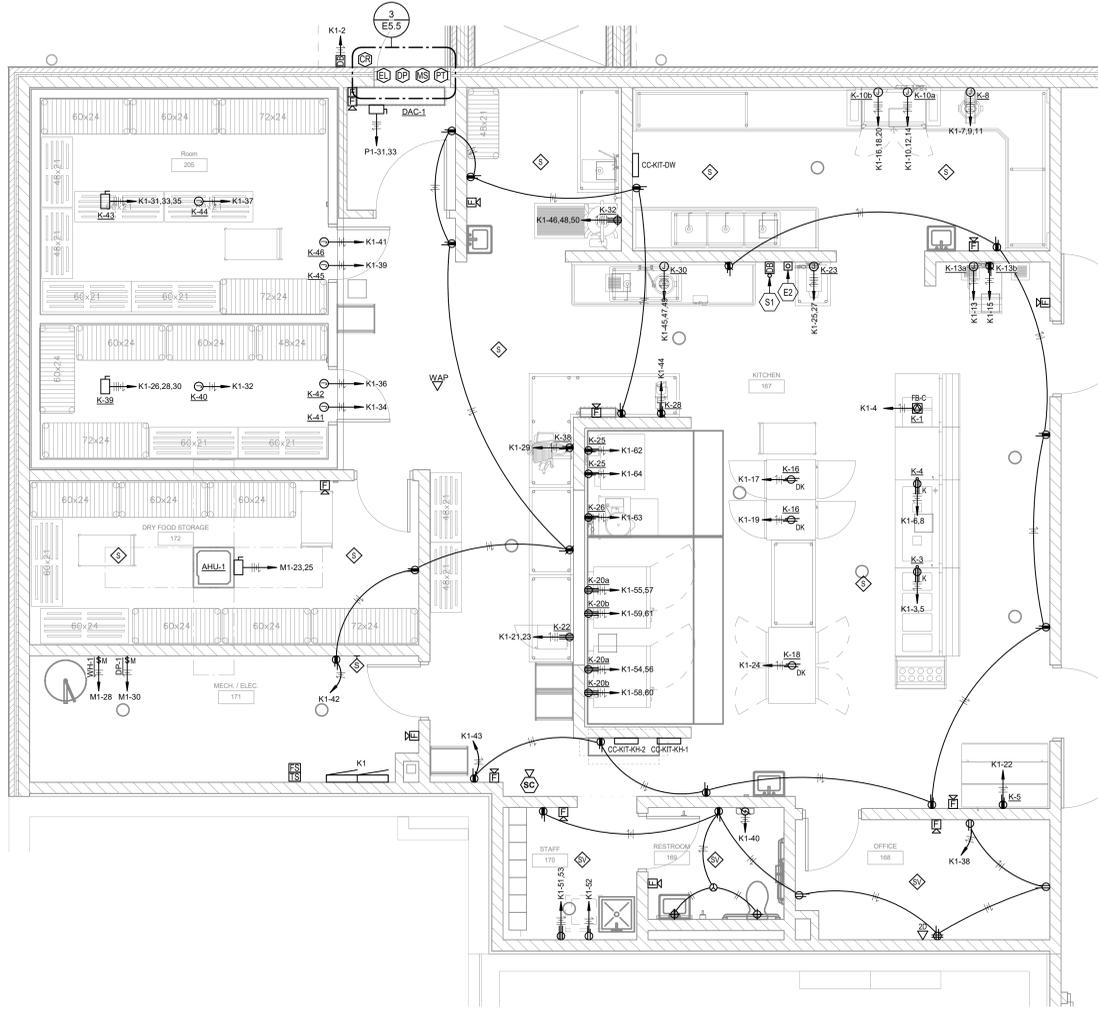
3 FLOOR OUTLET COUPLING TO FLEX STUB-UP DETAIL
NO SCALE



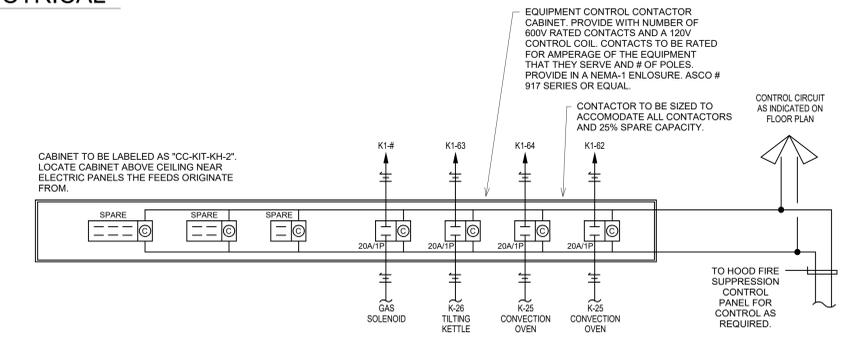
4 KITCHEN DISHWASHER EQUIPMENT CONTROL SCHEMATIC
NO SCALE



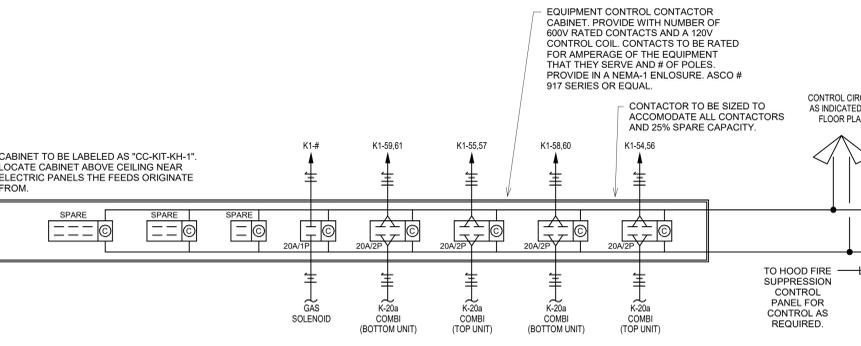
1 ENLARGED KITCHEN PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



7 KITCHEN HOOD (KH-2) CONTROL SCHEMATIC (FOR TYPE 1 HOOD)
NO SCALE



5 KITCHEN HOOD (KH-1) CONTROL SCHEMATIC (FOR TYPE 1 HOOD)
NO SCALE



GENERAL NOTES (KITCHEN):

- A. PROVIDE BREAKER LOCK-OUT PROVISIONS IN PANELS FOR BREAKERS THAT SERVE HARD-WIRED KITCHEN EQUIPMENT CONNECTIONS.
- B. KITCHEN PLANS ARE BASED UPON COORDINATION WITH THE KITCHEN DESIGN CONSULTANT'S DRAWINGS. ALL ROUGH-INS AND FINAL CONNECTIONS SHALL BE VERIFIED WITH KITCHEN EQUIPMENT SHOP DRAWINGS AND ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- C. FOR ALL CIRCUITS SERVING RECEPTABLES AND EQUIPMENT IN KITCHEN AND SERVING AREAS, PROVIDE "GFCI" TYPE CIRCUIT BREAKERS FOR THOSE CIRCUITS. FOR ALL RECEPTABLES THAT ARE CONNECTED TO "GFCI" CIRCUIT BREAKERS, PROVIDE PERMANENT LABELS ON THE RECEPTACLE COVERPLATE INDICATING "GFCI" PROTECTED CIRCUIT.
- D. PROVIDE #302 STAINLESS STEEL COVERPLATES ON ALL OUTLETS LOCATED ON A WALL WITH STAINLESS STEEL COVERINGS. VERIFY LOCATIONS OF THESE STAINLESS STEEL WALLS WITH THE KITCHEN VENDOR DRAWINGS/ SHOP DRAWINGS.
- E. REFER TO KITCHEN ELECTRICAL CONNECTIONS SCHEDULES FOR MOUNTING HEIGHTS OF RECEPTABLES AND JUNCTION BOXES.
- F. VERIFY EXACT OUTLET NEMA CONFIGURATIONS WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION.

KEYNOTES

- E2. EMERGENCY PUSH BUTTON. PROVIDE CONNECTION BETWEEN HOOD FIRE SUPPRESSION SYSTEM AND BUILDING FIRE ALARM SYSTEM FOR MONITORING. REFER TO EMERGENCY SHUT-OFF WIRING DIAGRAM.
- S1. DOOR CHIME AND STROBE. PROVIDE ALL WIRE AND CONDUIT AS REQUIRED FOR CONNECTIONS TO DOOR BELL PUSH BUTTON STATION ON EXTERIOR. COORDINATE ALL REQUIREMENTS WITH ACCESS CONTROL VENDOR PRIOR TO CONSTRUCTION.

GENERAL NOTES (POWER/SYSTEMS):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAYOUT AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100.121(4) (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTABLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTABLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 408.2(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- H. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE FULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

SHERMAN CARTER BARNHART ARCHITECTS
LEGRADE ELEMENTARY SCHOOL ADDITION AND RENOVATION
ENLARGED KITCHEN PLAN - ELECTRICAL
LEGRADE ELEMENTARY SCHOOL ADDITION AND RENOVATION
BG #23-217
HART COUNTY BOARD OF EDUCATION
HORSE CAVE, KY

REVISIONS
 No. Description Date
 1 ADDENDUM #2 08-23-23

JOB NO. 15062
DATE 08/03/2023
DRAWN GDC
CHECKED BKB
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SHEET **E4.1**

| ITEM | DESCRIPTION | WIRING |
|-------|---|---------------------------------|
| DA | CONCEALED DOOR ALARM CONTACT (POSITION) SWITCH, ROUND, POP-IN, BALANCED | COMPOSITE, PLENUM RATED CABLE |
| EL | ELECTRIFIED LATCH | COMPOSITE, PLENUM RATED CABLE |
| SA | PIEZO DOOR HOLD OPEN SOUNDER ALARM | COMPOSITE, PLENUM RATED CABLE |
| CR | CARD READER / KEY FOB | COMPOSITE, PLENUM RATED CABLE |
| ES | ELECTRIC DOOR STRIKE | COMPOSITE, PLENUM RATED CABLE |
| MS | REQUEST TO EXIT MOTION SENSER DOOR CONTROL WITH SOUNDER (BOSCH DX160) | COMPOSITE, PLENUM RATED CABLE |
| PB | PUSH BUTTON STATION MOUNTED UNDER DESK, MOMENTARY PUSH BUTTON | COMPOSITE, PLENUM RATED CABLE |
| MR | DOOR RELEASE BUTTON | COMPOSITE, PLENUM RATED CABLE |
| PP | PUSH PLATE | COMPOSITE, PLENUM RATED CABLE |
| PT | POWER TRANSFER (FRAME TO DOOR) | COMPOSITE, PLENUM RATED CABLE |
| IM | AUDIO/VIDEO INTERCOM MASTER STATION (AXIS) | |
| AI | AUDIO/VIDEO INTERCOM REMOTE STATION (AXIS) | 18/4 CABLE TO DOOR ACCESS PANEL |
| DBD | DOORBELL AUDIO/VISUAL STATION | (2) #12 AWG, (1) #12 AWG GND |
| DB | DOORBELL PUSHBUTTON STATION | (2) #12 AWG, (1) #12 AWG GND |
| DS | DOOR POWER SUPPLY (LOCATE IN MDF / IDF) | (2) #12 AWG, (1) #12 AWG GND |
| SB | SWATBOX WITH CARD READER | COMPOSITE, PLENUM RATED CABLE |
| SEC-A | ACCESS DOOR CONTROLLER (LOCATE IN MDF/IDF. SEE FLOOR PLANS FOR LOCATIONS) | (2) #12 AWG, (1) #12 AWG GND |

- ACCESS CONTROL AND INTRUSION SYSTEM NOTES:**
- INSTALLATION MUST BE COORDINATED WITH THE OWNER, ARCHITECT, ELECTRICAL CONTRACTOR AND DOOR HARDWARE CONTRACTOR PRIOR TO ROUGH-IN AND INSTALLATION.
 - INSTALLATION MUST BE COORDINATED WITH ANY DOOR OPERATOR EQUIPMENT.
 - ALL REQUIRED MODIFICATIONS TO THE DOOR FRAMES SHALL BE THE RESPONSIBILITY OF THE DIVISION 28 CONTRACTOR.
 - EGRESS SHALL NOT BE IMPEDED BY ACCESS CONTROLS AND SHALL BE ACCOMPLISHED BY THE DOOR HARDWARE.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER CIRCUITS AND RECEPTACLES FOR THE SYSTEM.
 - DOOR HARDWARE SHALL BE PROVIDED AND INSTALLED AS PART OF THE DOOR HARDWARE CONTRACT.
 - THE ASSOCIATED LINE DIAGRAMS PRESENTS A TYPICAL SYSTEM WIRING SCHEME. NOT ALL CONNECTIONS ARE SHOWN.
 - ELECTRICAL CIRCUITS FEEDING THE ACCESS CONTROL SYSTEM SHALL BE DEDICATED TO THE SECURITY SYSTEM AND HAVE CIRCUIT BREAKER LOCK OFF CAPABILITY.
 - ALL CABLING SHALL BE PLENUM RATED AND ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
 - DOOR CONTACTS SHALL BE RECESSED UNLESS OTHERWISE NOTED.
 - CARD READER PATHWAYS SHALL BE RECESSED AND FLUSH MOUNTED IN ALL INSTANCES.
 - SUBMITTALS AND SHOP DRAWINGS SHALL INCLUDE EXACT PRODUCT DATA CLEARLY INDICATED. SYSTEM CONNECTIONS, WIRING DIAGRAMS AND DEVICE LOCATIONS.
 - AS-BUILT DOCUMENTATION SHALL BE SUBMITTED IN ELECTRONIC AUTOCAD AND HARDCOPY FORMAT AND SHALL INCLUDE ALL SYSTEM REVISIONS.

- DOOR HARDWARE RISERS (GENERAL NOTES)**
- REFER TO SPECIFICATION 087100, FINISHED HARDWARE, FOR ADDITIONAL REQUIREMENTS.
 - PROVIDE ALL NECESSARY ROUGH-INS, 120V POWER, AND CONNECTIONS AS REQUIRED FOR A COMPLETE AND FULLY-FUNCTIONING DOOR HARDWARE ACCESS CONTROL SYSTEM.
 - COORDINATE ALL REQUIRED FIRE ALARM CONNECTIONS WITH DOOR HARDWARE SPECIFICATIONS AND VENDOR. SEE FLOOR PLANS AND SPECIFICATIONS FOR LOCATIONS AND REQUIREMENTS.
 - COORDINATE ALL REQUIREMENTS WITH FINAL DOOR HARDWARE SPECIFICATIONS PRIOR TO ROUGH-IN.

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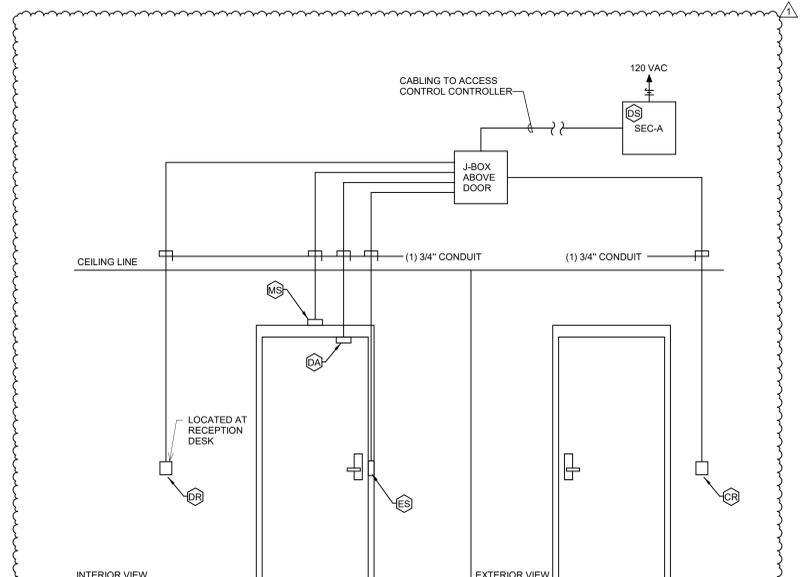
BRIAN K. BARNHART
23179
LICENSED PROFESSIONAL ENGINEER

CMTA
A LEICESTER COUNTY COMPANY

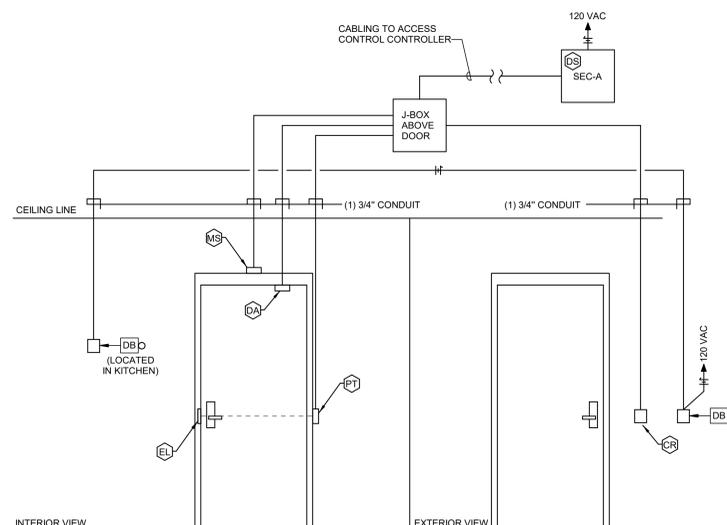
LEGRANDE ELEMENTARY SCHOOL ADDITION AND RENOVATION
BG # 23-217
HART COUNTY BOARD OF EDUCATION
HORSE CAVE, KY

DOOR DETAILS

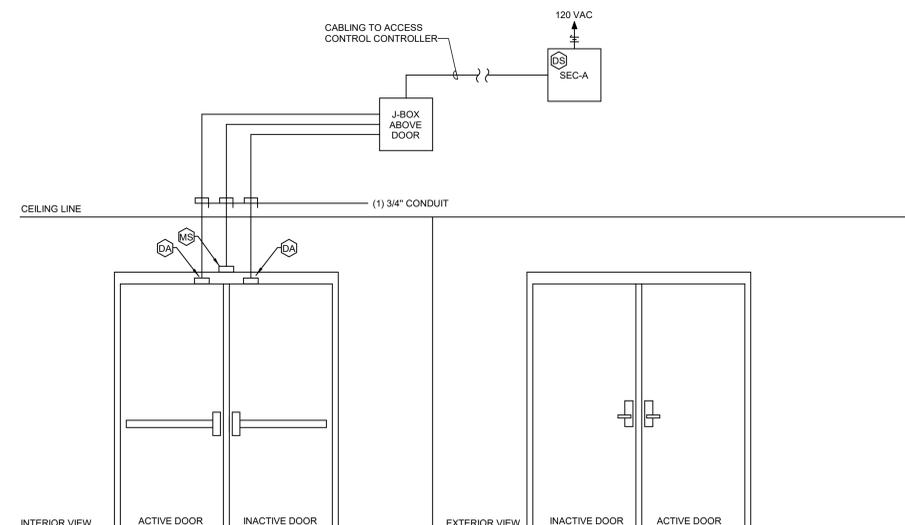
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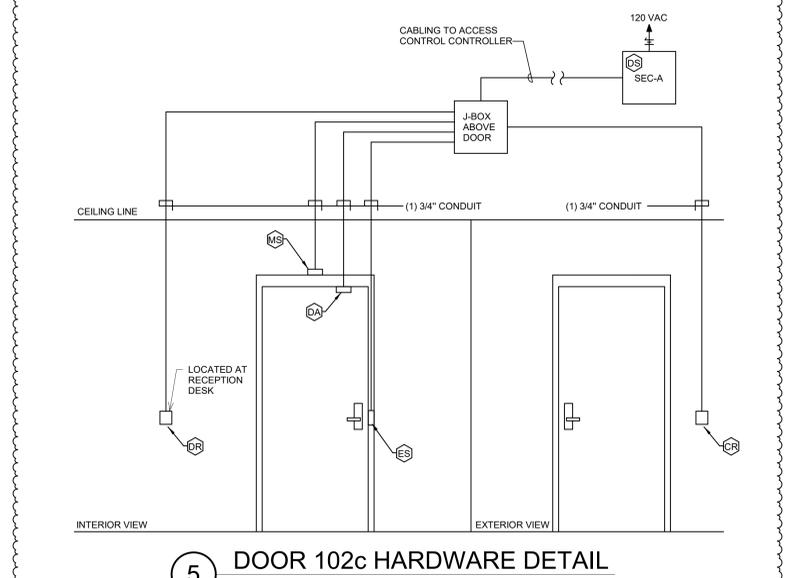
4 DOOR 102b HARDWARE DETAIL
NO SCALE REF: E3.1



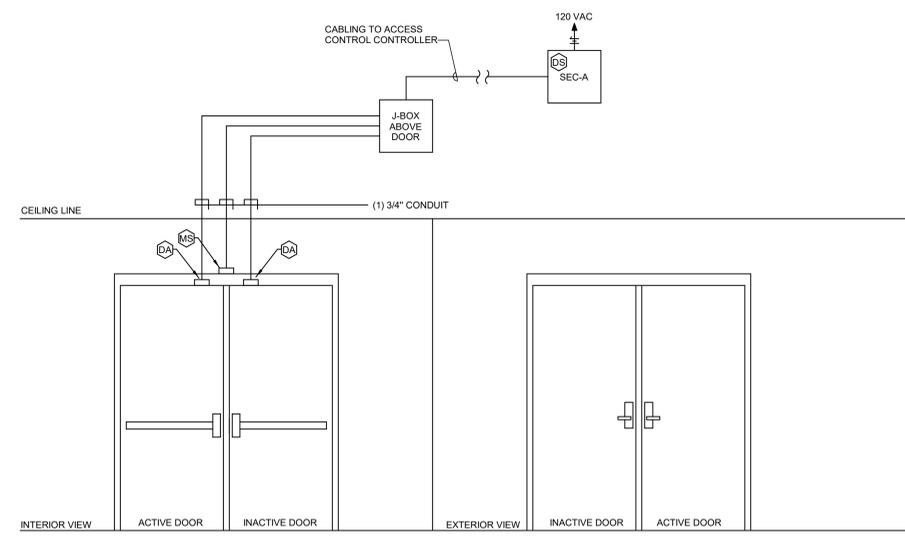
3 DOOR E167 HARDWARE DETAIL
NO SCALE REF: E4.1



1 DOOR E167a HARDWARE DETAIL
NO SCALE REF: E3.1



5 DOOR 102c HARDWARE DETAIL
NO SCALE REF: E3.1



2 DOOR E164b HARDWARE DETAIL
NO SCALE REF: E3.1

E5.5 LEGRANDE ELEMENTARY SCHOOL ADDITION AND RENOVATION 8/23/2023 3:09:09 PM



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SHEET

ELEC - LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | BASIS OF DESIGN | | EQUAL MANUFACTURERS | MOUNTING | LAMPS / CCT | MINIMUM LUMENS | MAXIMUM WATTAGE | VOLTAGE | REMARKS |
|------|---|-----------------|--|---------------------|-----------|-------------|----------------|-----------------|---------|---|
| | | MANUFACTURER | MODEL | | | | | | | |
| A1 | 2'X4' LAY-IN LED TROFFER WITH 22-GUAGE POWDER STEEL AND AMATTE WHITE POWDER PAINT FOR IMPROVED AESTHETICS. | LITHONIA | SPX 2'X4 4800LM 80CRI 40K BFR LUGR MN1 ZT MVOLT XXXX | COOPER, PHILIPS | RECESSED | LED, 4000K | 4800 LUMENS | 34 | 120 | ARCHITECT TO SELECT FINISH. |
| A1E | SAME AS FIXTURE "A1" EXCEPT WITH INTEGRAL BATTERY PACK. | LITHONIA | SPX 2'X4 4800LM 80CRI 40K BFR LUGR MN1 ZT MVOLT E10WLCP XXXX | COOPER, PHILIPS | RECESSED | LED, 4000K | 4800 LUMENS | 34 | 120 | ARCHITECT TO SELECT FINISH. |
| A2 | 2'X4' LAY-IN LED TROFFER WITH 22-GUAGE POWDER STEEL AND AMATTE WHITE POWDER PAINT FOR IMPROVED AESTHETICS. | LITHONIA | SPX 2'X4 3000LM 80CRI 40K BFR LUGR MN1 ZT MVOLT XXXX | COOPER, PHILIPS | RECESSED | LED, 4000K | 3000 LUMENS | 30 | 120 | ARCHITECT TO SELECT FINISH. |
| A2E | SAME AS FIXTURE "A2" EXCEPT WITH INTEGRAL BATTERY PACK. | LITHONIA | SPX 2'X4 3000LM 80CRI 40K BFR LUGR MN1 ZT MVOLT E10WLCP XXXX | COOPER, PHILIPS | RECESSED | LED, 4000K | 3000 LUMENS | 30 | 120 | ARCHITECT TO SELECT FINISH. |
| D6 | 6" RECESSED CAN LIGHT FIXTURE | LITHONIA | LDN6 40/20 L06 AR LSS XXX MVOLT GZ1 | COOPER, PHILIPS | RECESSED | LED, 4000K | 2000 LUMENS | 23 | 120 | ARCHITECT TO SELECT FINISH. |
| K | 2'X4' LAY-IN-WET LOCATION TROFFER WITH ALUMINUM DOOR FRAME, FLAT FROSTED ACRYLIC LENS, IP65 LISTING. | LITHONIA | 2'WRTL G L48 7000LM GAW AFL MVOLT EZ1 40K 80CRI | COOPER, PHILIPS | RECESSED | LED, 4000K | 7000 LUMENS | 59 | 120 | |
| KE | 2'X4' LAY-IN-WET LOCATION TROFFER WITH ALUMINUM DOOR FRAME, FLAT FROSTED ACRYLIC LENS, IP65 LISTING WITH INTEGRAL BATTERY PACK. | LITHONIA | 2'WRTL G L48 7000LM GAW AFL MVOLT EZ1 40K 80CRI E10WLCP | COOPER, PHILIPS | RECESSED | LED, 4000K | 7000 LUMENS | 59 | 120 | |
| X1 | SINGLE FACE, EXIT SIGN WITH INTEGRAL BATTERY PACK. | LITHONIA | LQC 1 R EL N | COOPER, PHILIPS | UNIVERSAL | N/A | N/A | 1 | 120 | |
| Z1 | LED WALL PACK WITH COLD WEATHER INTEGRAL 90 MINUTE BATTERY PACK. | LITHONIA | ARC1 LED P2 30K MVOLT E4WH XXXX | COOPER, PHILIPS | WALL | LED, 3000K | 2000 LUMENS | 17 | 120 | ARCHITECT TO SELECT FINISH. MOUNT ABOVE DOOR. COORDINATE MOUNTING OF FIXTURE WITH CANOPY. |
| Z2 | LED WALL PACK. | LITHONIA | TWX2 LED P2 30K MVOLT PE XXXX | COOPER, PHILIPS | WALL | LED, 4000K | 3450 LUMENS | 28 | 120 | ARCHITECT TO SELECT FINISH. MOUNT AT 12'-0" AFF. |

ELEC - EQUIPMENT CONNECTION SCHEDULE

| EQUIP ID | DESCRIPTION | DISCONNECT MEANS | VOLTAGE | POLES | HP | POWER (KVA) | REMARKS |
|----------|--------------------------------------|---|---------|-------|------|-------------|---------|
| AHU-1 | DUCTLESS SPLIT SYSTEM (INDOOR UNIT) | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 2 | | 1.87 | |
| CHP-015 | HEAT PUMP | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 2 | | 2.08 | |
| CU-1 | DUCTLESS SPLIT SYSTEM (OUTDOOR UNIT) | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 2 | | 1.87 | |
| DAC-1 | DOOR AIR CURTAIN | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 2 | 1/6 | 9.57 | |
| DEF-1 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 120 | 1 | 1/3 | 0.86 | |
| DP-1 | RECIRCULATING PUMP | EC TO PROVIDE MOTOR RATED TOGGLE SWITCH | 120 | 1 | | 1.00 | |
| EF-1 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 120 | 1 | 1/8 | 1.00 | |
| EF-2 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 120 | 1 | 1/60 | 1.00 | |
| EF-3 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 120 | 1 | 1/60 | 1.00 | |
| EF-4 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 120 | 1 | 1/8 | 1.00 | |
| HHP-024 | HEAT PUMP | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 3 | | 4.32 | |
| KEF-1 | EXHAUST FAN | DISCONNECT FURNISHED WITH EQUIPMENT | 208 | 3 | 3 | 6.31 | |
| MAU-1 | MAKE-UP AIR UNIT | EC TO PROVIDE SAFETY SWITCH AT UNIT | 208 | 3 | | 4.32 | |
| RTU-1 | ROOFTOP UNIT | DISCONNECT FURNISHED WITH EQUIPMENT | 208 | 3 | | 13.91 | |
| RTU-2 | ROOFTOP UNIT | DISCONNECT FURNISHED WITH EQUIPMENT | 208 | 3 | | 22.19 | |
| WH-1 | WATER HEATER | EC TO PROVIDE MOTOR RATED TOGGLE SWITCH | 120 | 1 | | 1.00 | |

GENERAL NOTES (LUMINAIRE SCHEDULE):

- A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
- B. WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.
- C. PROVIDE DRIVERS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS.
- D. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
- E. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.
- F. ALL FIXTURES SHALL HAVE A CRI GREATER THAN 80, U.O.N.
- G. CONFIRM ALL FINISHES AND MOUNTING HEIGHTS WITH ARCHITECT DURING SHOP DRAWING REVIEW. PROVIDE CUSTOM, FACTORY CUT STEM LENGTHS AS REQUIRED.
- H. REFER TO LIFE SAFETY AND LIGHTING DRAWINGS FOR MOUNTING REQUIREMENTS. NUMBER OF FACES AND ARROWS (CHEVRONS) FOR ALL EXIT SIGNS. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLANS.
- I. CONTRACTOR SHALL VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURE AND PROVIDE FIXTURES APPROPRIATE TO THE ACTUAL CONDITION. THIS IS TO INCLUDE SPECIFIC TYPE OF LAY-IN CEILING GRID.
- J. ALL LUMINAIRES, INCLUDING PENANTS AND DOWNLIGHTS SHALL HAVE A "MAXIMUM WATTAGE LABEL" AFFIXED TO EACH FIXTURE BY THE MANUFACTURER'S FACTORY. MAXIMUM WATTAGE TO BE BASED ON THE SPECIFIED LIGHT ENGINE AND/OR DRIVER FROM THE LIGHT FIXTURE SCHEDULE.
- K. ALL LUMINAIRES SHALL HAVE INTERNAL FAST-BLOWING FUSING.
- L. PROVIDE GROUNDING CONDUCTOR AND NEUTRAL TO ALL SWITCHES, DIMMERS, AND WALL MOUNTED OCCUPANCY SENSORS.
- M. FIXTURES AND ASSOCIATED ON-BOARD CIRCUITRY MUST MEET CLASS A EMISSION LIMITS REFERRED TO IN FEDERAL COMMUNICATIONS COMMISSION (FCC) TITLE 47, SUBPART B, SECTION 15 NON-CONSUMER REQUIREMENTS FOR EMIRF EMISSIONS. ANY ADDITIONAL MATERIALS AND LABOR REQUIRED TO ADDRESS EMIRF ISSUES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- N. ALL DOWNLIGHTS ABOVE SHOWER AREAS SHALL HAVE DEAD FRONT DROP LENS TRIM.

PANELBOARD AND WIRING SCHEDULE

PANEL: K1
VOLTAGE: 208Y/120V/3P/4W
AMPERES: 100 A

MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE

SCCR (KA): 65k
AVAIL FAULT CURRENT (KA): 65k
SUPPLY FROM: EXISTING MDP

| CIRCUIT DESCRIPTION | WIRE | GND | C | OC | P | CKT | A | B | C | CKT P | OC | C | GND | WIRE | CIRCUIT DESCRIPTION | |
|--|---------|-----|--------|----|----|-----|-----|------|------|-------|-----|-----|--------|-----------|--|----------------------|
| LTNG - KITCHEN 167 | | | 20 | 1 | 1 | 1.9 | 0.0 | | | 2 | 1 | 20 | | | DOOR BELL | |
| K-3 COLD FOOD COUNTER | (3) #10 | #10 | 34°C | 2 | 3 | | | 3.1 | 0.4 | 4 | 1 | 20 | | | K-1 CASHIER COUNTER | |
| | | | | | | 7 | 0.4 | 3.1 | | 3.1 | 3.1 | 6 | 2 | 30 | 34°C | K-4 HOT FOOD COUNTER |
| K-8 GARBAGE DISPOSER | (4) #12 | #12 | 34°C | 20 | 3 | 9 | | 0.4 | 6.6 | 10 | | 70 | 1-1/2" | #8 (4) #4 | K-10a DISHWASHER (CONVEYOR) | |
| K-13a ICE MAKER (EVAPORATOR) | | | 20 | 1 | 13 | 1.4 | 6.6 | | 0.4 | 6.6 | 12 | 3 | | | K-10b DISHWASHER (BOOSTER HEATER) | |
| K-13b ICE MAKER (DISPENSOR) | | | 20 | 1 | 15 | | 0.2 | 10.1 | | | | 22 | 1 | 20 | K-5 MILK COOLER | |
| K-16 PASS THRU PROOFING | (2) #10 | #10 | 34°C | 30 | 1 | 17 | | 2.9 | 10.1 | 18 | 3 | 110 | 1-1/2" | #6 (4) #2 | K-18 PASS THRU REFRIG | |
| K-16 PASS THRU PROOFING | (2) #10 | #10 | 34°C | 30 | 1 | 19 | 2.9 | 10.1 | | | | 20 | | | K-39 COOLER (CONDENSING UNIT) | |
| K-22 OVEN, MICROWAVE | (3) #12 | #12 | 34°C | 25 | 2 | 23 | | 1.9 | 0.3 | | | 24 | 1 | 20 | K-40 COOLER (EVAPORATOR) | |
| K-23 HOT WATER DISPENSER | (3) #4 | #8 | 1-1/4" | 70 | 2 | 25 | 5.0 | 1.8 | | | | 26 | | | K-41 COOLER (LIGHTS) | |
| K-38 FOOD SLICER | | | 20 | 1 | 29 | | 5.0 | 1.8 | | 0.7 | 1.8 | 30 | | | K-42 COOLER (DOOR HEATER) | |
| K-43 FREEZER (CONDENSING UNIT) | (4) #12 | #12 | 34°C | 20 | 3 | 31 | 3.0 | 0.1 | | 3.0 | 0.5 | 36 | 1 | 20 | HAND DRYER | |
| K-44 FREEZER (EVAPORATOR) | | | 20 | 1 | 35 | | 0.5 | 1.6 | | 3.0 | 0.5 | 36 | 1 | 20 | REC | |
| K-45 FREEZER (LIGHTS) | | | 20 | 1 | 39 | | 0.5 | 1.0 | | | | 40 | 1 | 20 | K-28 FOOD PROCESSOR | |
| K-46 FREEZER (DOOR HEATER) | | | 20 | 1 | 41 | | 0.5 | 1.4 | 4.2 | 1 | 20 | | | | REC | |
| REC | | | 20 | 1 | 43 | 1.4 | 1.2 | | | 4.4 | 1 | 20 | | | K-32 CUTTERMIXER, VERTICAL | |
| K-30 GARBAGE DISPOSER | (4) #12 | #12 | 34°C | 20 | 3 | 47 | | 0.4 | 3.6 | 0.4 | 3.6 | 48 | 3 | 40 | 1" | #10 (4) #8 |
| DRYER | (3) #10 | #10 | 34°C | 30 | 2 | 51 | 0.4 | 3.6 | | 5.0 | | 52 | 1 | 20 | WASHER | |
| K-20a COMBI OVEN (DOUBLE STACK, TOP UNIT) | | | 20 | 2 | 55 | 0.9 | 0.9 | | | 2.6 | 0.9 | 54 | 2 | 20 | K-20b COMBI OVEN (DOUBLE STACK, TOP UNIT) | |
| K-20b COMBI OVEN (DOUBLE STACK, BOTTOM UNIT) | | | 20 | 2 | 57 | | 0.9 | 0.9 | | 2.6 | 0.9 | 54 | 2 | 20 | K-20c COMBI OVEN (DOUBLE STACK, BOTTOM UNIT) | |
| K-26 TILTING KETTLE | | | 20 | 1 | 63 | | 0.6 | 0.9 | | 0.9 | 0.9 | 60 | | | K-25 CONVECTION OVEN | |
| SPARE | | | 20 | 1 | 65 | | | | | 0.0 | 0.0 | 66 | 1 | 20 | K-25 CONVECTION OVEN | |
| SPARE | | | 20 | 1 | 67 | 0.0 | 0.0 | | | 0.0 | 0.0 | 68 | 1 | 20 | SPARE | |
| SPARE | | | 20 | 1 | 69 | | 0.0 | 0.0 | | 0.0 | 0.0 | 70 | 1 | 20 | SPARE | |
| SPARE | | | 20 | 1 | 71 | | | | | 0.0 | 0.0 | 72 | 1 | 20 | SPARE | |
| SPARE | | | 20 | 1 | 73 | 0.0 | 0.0 | | | 0.0 | 0.0 | 74 | 1 | 20 | SPARE | |
| SPARE | | | 20 | 1 | 75 | | 0.0 | 0.0 | | 0.0 | 0.0 | 76 | 1 | 20 | SPARE | |
| SPARE | | | 20 | 1 | 77 | | | | | 0.0 | 0.0 | 78 | 1 | 20 | SPARE | |
| SPACE | | | 20 | 1 | 79 | | | | | 0.0 | 0.0 | 80 | 1 | 20 | SPARE | |
| SPACE | | | 20 | 1 | 81 | | | | | 0.0 | 0.0 | 82 | 1 | 20 | SPARE | |
| SPACE | | | 20 | 1 | 83 | | | | | 0.0 | 0.0 | 84 | 1 | 20 | SPARE | |

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---------------------|----------------|---------------|------------------|---------------------------------------|
| EQUIP | 10992 VA | 100.00% | 10992 VA | TOTAL CONNECTED LOAD: 140 KVA |
| LTNG | 1876 VA | 100.00% | 1876 VA | TOTAL ESTIMATED DEMAND: 131 KVA |
| REC | 28774 VA | 67.38% | 19387 VA | TOTAL CONNECTED CURRENT: 389 A |
| | | | | TOTAL ESTIMATED DEMAND CURRENT: 363 A |

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: L1
VOLTAGE: 208Y/120V/3P/4W
AMPERES: 100 A

MAINS TYPE: MLO
SPD: Yes
MOUNTING: FLUSH

SCCR (KA): 22k
AVAIL FAULT CURRENT (KA): 22k
SUPPLY FROM: EXISTING MDP

| CIRCUIT DESCRIPTION | WIRE | GND | C | OC | P | CKT | A | B | C | CKT P | OC | C | GND | WIRE | CIRCUIT DESCRIPTION |
|---------------------------|------|-----|----|----|----|-----|-----|-----|---|-------|-----|----|-----|------|-----------------------|
| LTNG - CAFETERIA 164 | | | 20 | 1 | 1 | 1.3 | 0.7 | | | 2 | 1 | 20 | | | LTNG - CLASSROOMS 163 |
| LTNG - NURSE/GUIDANCE 155 | | | 20 | 1 | 5 | | 0.3 | 0.2 | | 0.2 | 0.4 | 6 | 1 | 20 | LTNG - EXTERIOR |
| SPARE | | | 20 | 1 | 7 | 0.0 | 0.0 | | | 0.0 | 0.0 | 8 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 9 | | | | | 0.0 | 0.0 | 10 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 11 | | | | | 0.0 | 0.0 | 12 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 13 | 0.0 | 0.0 | | | 0.0 | 0.0 | 14 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 15 | | | | | 0.0 | 0.0 | 16 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 17 | | | | | 0.0 | 0.0 | 18 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 19 | 0.0 | 0.0 | | | 0.0 | 0.0 | 20 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 21 | | | | | 0.0 | 0.0 | 22 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 23 | | | | | 0.0 | 0.0 | 24 | 2 | 20 | SPARE |
| SPARE | | | 20 | 1 | 25 | 0.0 | 0.0 | | | 0.0 | 0.0 | 26 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 27 | | | | | 0.0 | 0.0 | 28 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 29 | | | | | 0.0 | 0.0 | 30 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 31 | 0.0 | 0.0 | | | 0.0 | 0.0 | 32 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 33 | | | | | 0.0 | 0.0 | 34 | 1 | 20 | SPARE |
| SPARE | | | 20 | 1 | 35 | | | | | 0.0 | 0.0 | 36 | 1 | 20 | SPARE |
| SPACE | | | 20 | 1 | 37 | | | | | 0.0 | 0.0 | 38 | 1 | 20 | SPACE |
| SPACE | | | 20 | 1 | 39 | | | | | 0.0 | 0.0 | 40 | 1 | 20 | SPACE |
| SPACE | | | 20 | 1 | 41 | | | | | 0.0 | 0.0 | 42 | 1 | 20 | SPACE |

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---------------------|----------------|---------------|------------------|-------------------------------------|
| LTNG | 3044 VA | 100.00% | 3044 VA | TOTAL CONNECTED LOAD: 3 KVA |
| | | | | TOTAL ESTIMATED DEMAND: 3 KVA |
| | | | | TOTAL CONNECTED CURRENT: 8 A |
| | | | | TOTAL ESTIMATED DEMAND CURRENT: 8 A |

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: P1
VOLTAGE: 208Y/120V/3P/4W
AMPERES: 225 A

MAINS TYPE: MLO
SPD: Yes
MOUNTING: FLUSH

SCCR (KA): 22k
AVAIL FAULT CURRENT (KA): 22k
SUPPLY FROM: EXISTING MDP

| CIRCUIT DESCRIPTION | WIRE | GND | C | OC | P | CKT | A | B | C | CKT P | OC | C | GND | WIRE | CIRCUIT DESCRIPTION |
|-----------------------|--------|-----|----|----|----|-----|-----|-----|---|-------|-----|----|-----|------|-----------------------|
| REC | | | 20 | 1 | 1 | 0.9 | 0.4 | | | 2 | 1 | 20 | | | REC |
| REC | | | 20 | 1 | 3 | | 1.1 | 0.4 | | 4 | 1 | 20 | | | REC |
| REC | | | 20 | 1 | 5 | | 0.7 | 0.2 | | 1.1 | 0.9 | 6 | 1 | 20 | REC - REFRIGERATOR |
| REC - EXTERIOR | | | 20 | 1 | 7 | 0.7 | 0.2 | | | 1.4 | 0.9 | 8 | 1 | 20 | REC - EXTERIOR |
| REC | | | 20 | 1 | 9 | | | | | 1.4 | 0.9 | 10 | 1 | 20 | REC |
| REC - MOTORIZED BED | | | 20 | 1 | 11 | | | | | 0.2 | 0.9 | 12 | 1 | 20 | REC |
| REC | | | 20 | 1 | 13 | 0.9 | 0.9 | | | 0.9 | 0.9 | 14 | 1 | 20 | REC |
| REC | | | 20 | 1 | 15 | | | | | 1.1 | 0.9 | 16 | 1 | 20 | REC |
| REC | | | 20 | 1 | 17 | | | | | 1.8 | 1.0 | 18 | 1 | 20 | HAND DRYER |
| ELECTRIC WATER COOLER | | | 20 | 1 | 19 | 0.2 | 1.0 | | | 2.0 | 1.0 | 20 | 1 | 20 | HAND DRYER |
| HAND DRYER | | | 20 | 1 | 21 | | 1.0 | 0.2 | | 2.2 | 1.0 | 22 | 1 | 20 | ELECTRIC WATER COOLER |
| HAND DRYER | | | 20 | 1 | 23 | | | | | 1.0 | 1.4 | 24 | 1 | 20 | REC |
| HAND DRYER | | | 20 | 1 | 25 | 1.0 | 1.0 | | | 2.0 | 1.0 | 26 | 1 | 20 | HAND DRYER |
| REC | | | 20 | 1 | 27 | | | | | 1.4 | 1.0 | 28 | 1 | 20 | HAND DRYER |
| REC | | | 20 | 1 | 29 | | | | | 0.2 | 0.9 | 30 | 1 | 20 | DEF-1 |
| DAC-1 | (3) #6 | #10 | 1" | 80 | 2 | 31 | 4.8 | 1.0 | | 3.2 | 1 | 20 | | | EF-1 |
| HVAC CONTROL PANEL | | | 20 | 1 | 33 | | | | | 4.8 | 1.0 | 34 | 1 | 20 | EF-4 |
| SPACE | | | 20 | 1 | 35 | | | | | 0.5 | 0.0 | 36 | 1 | 20 | SPARE |
| SPACE | | | 20 | 1 | 37 | | | | | 0.0 | 0.0 | 38 | 1 | 20 | SPACE |
| SPACE | | | 20 | 1 | 39 | | | | | 0.0 | 0.0 | 40 | 1 | 20 | SPACE |
| SPACE | | | 20 | 1 | 41 | | | | | 0.0 | 0.0 | 42 | 1 | 20 | SPACE |

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---------------------|----------------|---------------|------------------|--------------------------------------|
| EQUIP | 19930 VA | 100.00% | 19930 VA | TOTAL CONNECTED LOAD: 38 KVA |
| REC | 18000 VA | 77.78% | 14000 VA | TOTAL ESTIMATED DEMAND: 34 KVA |
| | | | | TOTAL CONNECTED CURRENT: 105 A |
| | | | | TOTAL ESTIMATED DEMAND CURRENT: 94 A |

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M1
VOLTAGE: 208Y/120V/3P/4W
AMPERES: 225 A

MAINS TYPE: MLO
SPD: Yes
MOUNTING: FLUSH

SCCR (KA): 25k
AVAIL FAULT CURRENT (KA): 25k
SUPPLY FROM: EXISTING MDP

| CIRCUIT DESCRIPTION | WIRE | GND | C | OC | P | CKT | A | B | C | CKT P | OC | C | GND | WIRE | CIRCUIT DESCRIPTION | |
|---------------------|--------|-----|----|----|----|-----|-----|-----|---|-------|-----|----|-----|------|---------------------|-------------|
| RTU-1 | (4) #8 | #10 | 1" | 50 | 3 | 1 | 4.6 | 7.4 | | 4.6 | 7.4 | 4 | 3 | 80 | 1-1/2" | C #8 (4) #4 |
| | | | | | | 5 | | | | 4.6 | 7.4 | 6 | | | RTU-2 | |
| MAU-1 | | | 20 | 3 | 9 | 1.4 | 1.4 | | | 1.4 | 1.4 | 12 | 1 | 20 | HHP-024 | |
| CHP-015 | | | 20 | 2 | 15 | 1.0 | 1.0 | | | 1.4 | 1.4 | 14 | 1 | 20 | EF-2</ | |



| | |
|---------|------------|
| JOB NO. | 15062 |
| DATE | 08/03/2023 |
| DRAWN | ODC |
| CHECKED | BKB |

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ARCHITECTS, PLLC

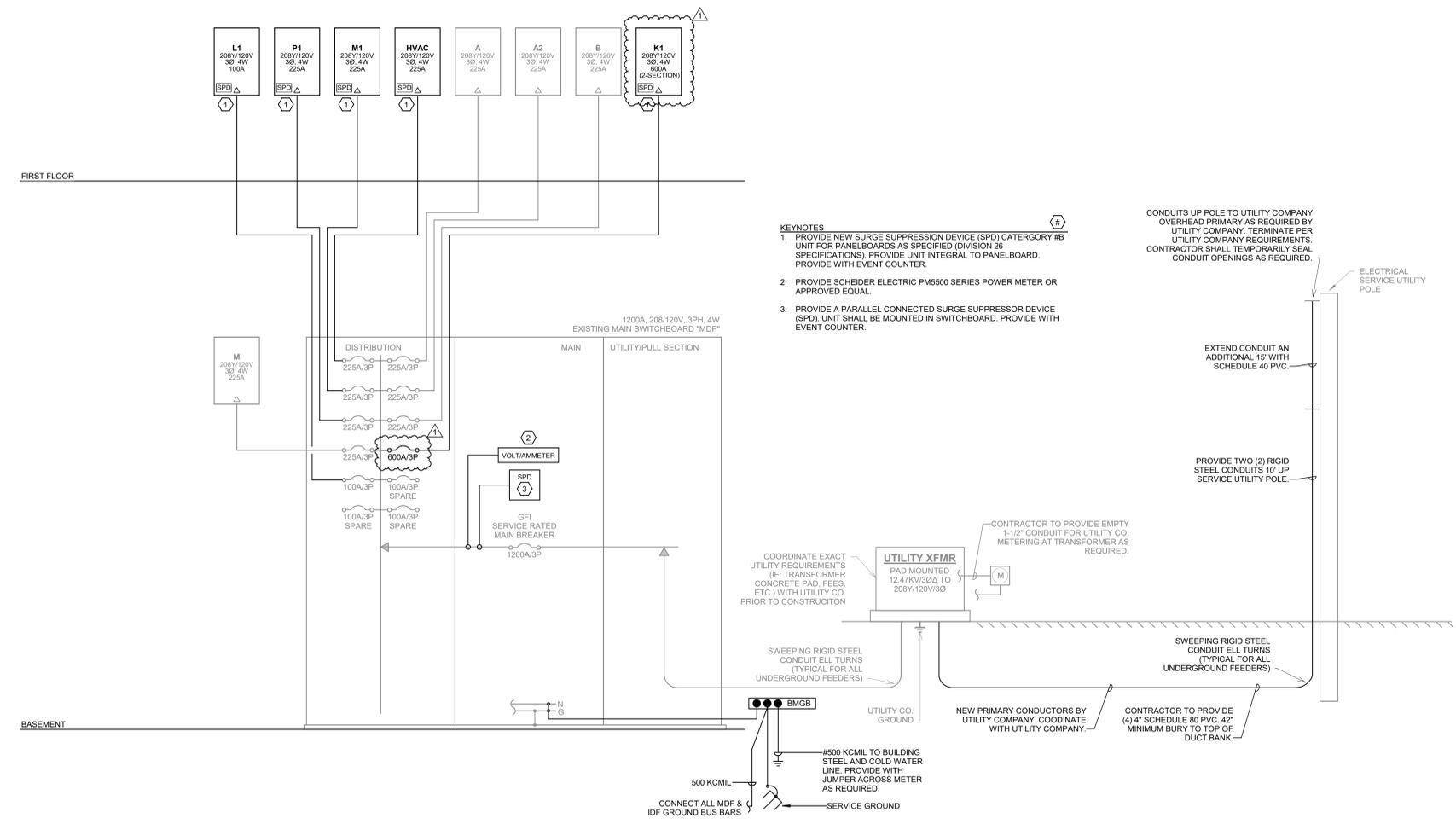
| REVISIONS | |
|-----------|-------------|
| No. | Description |
| 1 | ADDENDUM #2 |
| 2 | 08-23-23 |

SHEET

GENERAL NOTES (RISER):

- A. ALL NEW CONDUCTORS SHALL BE COPPER (REFER TO SPECIFICATIONS FOR TYPES).
- B. REFER TO DETAILS FOR TYPICAL PANEL LABELING REQUIREMENTS.
- C. REFER TO PANEL SCHEDULES FOR EQUIPMENT ACCESSORIES, BREAKER SIZES, AND RELATED INFORMATION.
- D. AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR ALL POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC. PER NFPA 70E AND OSHA REQUIREMENTS. ALL LABELS SHALL BE AFFIXED PRIOR TO FINAL ELECTRICAL INSPECTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. STUDY SHALL INCLUDE ALL EXISTING EQUIPMENT IN EXISTING FACILITY. REFER TO SPECIFICATION SECTION 260973, "ELECTRICAL STUDIES" FOR ADDITIONAL REQUIREMENTS.
- E. AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. THE EMERGENCY POWER SYSTEMS SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS THROUGH BOTH THE UTILITY AND GENERATOR DERIVED SYSTEMS. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN - OTHER MANUFACTURERS LISTED AS EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT. ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL COST ASSOCIATED WITH THESE CHANGES IN THEIR BID (INCLUDING INCREASES IN FEEDER SIZES). SUBMIT STUDY AS SHOP DRAWING TO ENGINEER PRIOR TO ORDERING ANY POWER DISTRIBUTION EQUIPMENT. ANY EQUIPMENT SUBMITTED PRIOR TO SUBMISSION OF THIS STUDY WILL NOT BE REVIEWED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. REFER TO SPECIFICATION SECTION 260973, "ELECTRICAL STUDIES" FOR ADDITIONAL REQUIREMENTS.
- F. AS PART OF THIS CONTRACT, PROVIDE AN IEEE 1547 CERTIFICATION.
- G. THERMAL SCAN OF PANEL AND LARGE EQUIPMENT TERMINATIONS SHALL BE PROVIDED TO OWNER AT COMPLETION OF PROJECT. CONTRACTOR TO CORRECT DEFICIENCIES DISCOVERED AT NO ADDITIONAL COST TO CONTRACT.
- H. POWER INTERRUPTIONS SHALL BE PLANNED WITH TWO WEEK MINIMUM NOTICE PRIOR TO INTERRUPTION TO EXISTING FACILITY POWER. CONTRACTOR SHALL COORDINATE ALL EXPECTED PROCEDURES WITH OWNER AND ALL LOCAL INSPECTION AGENCIES. ONE MONTH PRIOR TO INTERRUPTING POWER CONTRACTOR SHALL SUBMIT TO ENGINEER A DETAILED OUTLINE AND DESCRIPTION OF HOW THIS PROCEDURE IS TO TAKE PLACE, FOR HOW LONG POWER WILL BE DOWN, WHO HAS BEEN CONTACTED, ETC. THIS OUTLINE AND DESCRIPTION IS TO BE SUBMITTED AS SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. NO INTERRUPTION OF MAIN SERVICE POWER SHALL OCCUR WITHOUT THE ENGINEER'S WRITTEN APPROVAL OF THE ABOVE REFERENCED MATERIAL.
- I. REFER TO PANEL AND EQUIPMENT SCHEDULES FOR FEEDER AND OVERCURRENT DEVICE SIZES.
- J. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND 1/2" HIGH BLACK LETTERING.
- K. ALL SPD'S SHALL BE INTERNALLY MOUNTED.
- L. ALL UN-USED SPACES WITHIN SWITCHBOARD, DISTRIBUTION PANELBOARDS AND PANELBOARDS SHALL BE "PREPARED SPACES" THAT ALLOW EACH INSTALLATION OF A CIRCUIT BREAKER.

| ELEC RISER - FEEDER SCHEDULE | | | | | | | |
|------------------------------|--------------|---------|--------|------|-----------|--------------|-----------|
| EQUIPMENT NAME | FEED FROM | VOLTAGE | RATING | SETS | WIRE SIZE | CONDUIT SIZE | WIRE TYPE |
| K1 | EXISTING MDP | 208 V | 600 A | 2 | (4) #250 | 3-1/2" C | THWN |
| L1 | EXISTING MDP | 208 V | 100 A | 1 | (4) #40 | 1-1/2" C | THWN |
| M1 | EXISTING MDP | 208 V | 225 A | 1 | (4) #40 | #4 | THWN |
| P1 | EXISTING MDP | 208 V | 225 A | 1 | (4) #40 | #4 | THWN |



- KEYNOTES**
- PROVIDE NEW SURGE SUPPRESSION DEVICE (SPD) CATEGORY #B UNIT FOR PANELBOARDS AS SPECIFIED (DIVISION 26 SPECIFICATIONS). PROVIDE UNIT INTEGRAL TO PANELBOARD. PROVIDE WITH EVENT COUNTER.
 - PROVIDE SCHEIDER ELECTRIC PM5500 SERIES POWER METER OR APPROVED EQUAL.
 - PROVIDE A PARALLEL CONNECTED SURGE SUPPRESSOR DEVICE (SPD) UNIT SHALL BE MOUNTED IN SWITCHBOARD. PROVIDE WITH EVENT COUNTER.

CONDUITS UP POLE TO UTILITY COMPANY OVERHEAD PRIMARY AS REQUIRED BY UTILITY COMPANY. TERMINATE PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL TEMPORARILY SEAL CONDUIT OPENINGS AS REQUIRED.

EXTEND CONDUIT AN ADDITIONAL 15' WITH SCHEDULE 40 PVC.

PROVIDE TWO (2) RIGID STEEL CONDUITS 10' UP SERVICE UTILITY POLE.

COORDINATE EXACT UTILITY REQUIREMENTS (IE: TRANSFORMER CONCRETE PAD, FEES, ETC.) WITH UTILITY CO. PRIOR TO CONSTRUCTION

UTILITY XFMR PAD MOUNTED 12.47KV/3Ø/20 208Y/120V/3Ø

CONTRACTOR TO PROVIDE EMPTY 1-1/2" CONDUIT FOR UTILITY CO. METERING AT TRANSFORMER AS REQUIRED.

SWEETING RIGID STEEL CONDUIT ELL TURNS (TYPICAL FOR ALL UNDERGROUND FEEDERS)

NEW PRIMARY CONDUCTORS BY UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY.

CONTRACTOR TO PROVIDE (4) 4" SCHEDULE 80 PVC 42" MINIMUM BURY TO TOP OF DUCT BANK.

500 KCMIL

CONNECT ALL MDF & IDF GROUND BUS BARS

5000 KCMIL TO BUILDING STEEL AND COLD WATER LINE. PROVIDE WITH JUMPER ACROSS METER AS REQUIRED.

SERVICE GROUND

1 ELECTRICAL DISTRIBUTION RISER DIAGRAM
NO SCALE



| | |
|---------|------------|
| JOB NO. | 1506.2 |
| DATE | 08/03/2023 |
| DRAWN | GDC |
| CHECKED | BKB |

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| REVISIONS | | |
|-----------|-------------|----------|
| No. | Description | Date |
| 1 | ADDENDUM #2 | 08-23-23 |

SHEET

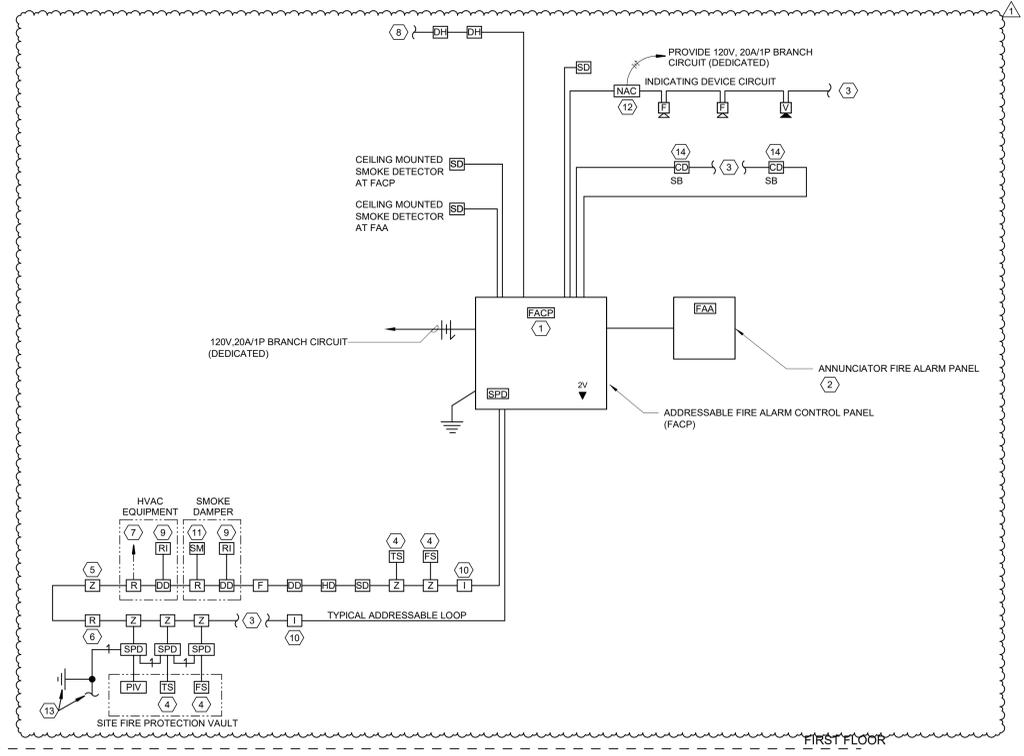
E7.2

GENERAL NOTES (FIRE ALARM SYSTEM):

- PROVIDE AN INTELLIGENT ADDRESSABLE VOICE FIRE ALARM SYSTEM FOR THE FACILITY. THIS FIRE ALARM SYSTEM SHALL BE CAPABLE OF MONITORING THE INCOMING FIRE SUPPRESSION RISER, MANUAL PULL-STATIONS, ALL CEILING MOUNTED AUTOMATIC SMOKE AND HEAT DETECTORS AND ALL DUCT-MOUNTED AUTOMATIC SMOKE DETECTORS. IN ADDITION, PROVIDE THE SYSTEM WITH A DIGITAL DIALER CONNECTED TO A MONITORING SERVICE SO THAT THE PROPER AUTHORITIES ARE NOTIFIED IN THE EVENT OF AN ALARM CONDITION.
- THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE FIRE ALARM CONTROL PANEL (FACP) UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- ANNUNCIATE ALL INDIVIDUAL FIRE ALARM DEVICES AS WELL AS AUXILIARY FUNCTIONS AT EACH ANNUNCIATOR. REFER TO SPECIFICATIONS, AS WELL AS GENERAL NOTES AND SCHEDULES THIS SHEET.
- FIELD VERIFY THE EXACT NUMBERS AND LOCATIONS OF ALL MECHANICAL RELATED ITEMS (EX. SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
- WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER AND CMTA AT CLOSE OF PROJECT.
- PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE DUCTWORK SERVING EACH AUTOMATIC FIRE SMOKE DAMPER. THESE DETECTORS ARE TO MONITOR THE DUCT OPENING IN A SMOKE OR FIRE RATED PARTITION. THESE DETECTORS ARE TO BE PROVIDED WITH AN AUXILIARY 24V, NORMALLY-CLOSED, RELAY WHICH HOLDS THE DAMPER OPEN. THIS RELAY IS TO KEEP THE DAMPER OPEN UNDER NORMAL CONDITIONS. THIS RELAY IS TO BE WIRED SO THAT IT OPENS, THUS ALLOWING THE DAMPER TO CLOSE IN THE EVENT OF AN ALARM OR LOSS OF POWER CONDITION. THESE DETECTORS ARE TO BE SUPPLIED AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR AND SHALL BE INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR.
- PROVIDE ADDRESSABLE NOTIFICATION APPLIANCES WITH THIS SYSTEM. THESE APPLIANCES ARE TO BE WHITE WITH RED LETTERING. AUDIBLE NOTIFICATION APPLIANCES ARE TO UTILIZE AN AUDIBLE HORN SETTING AT A MINIMUM OF 87dB. VISUAL NOTIFICATION APPLIANCES SHALL BE CAPABLE OF MULTIPLE CANDELA SETTINGS UP TO 110 CANDELAS. ALL CONDUIT IN THE FIRE ALARM SYSTEM SHALL BE 3/4" SIZE EXCEPT AS OTHERWISE NOTED. PROVIDE LARGER CONDUIT IF REQUIRED TO MAINTAIN CONDUCTORS AT 40% MAXIMUM FILL.
- FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET AND ALL SHOULD BE KEYPAD ALIKE.
- AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE DEVICES CAPABLE FIXED TEMPERATURE (165 F TO 200 F) DETECTION IN SUCH AREAS.
- THE ENTIRE FIRE ALARM INSTALLATION SHALL BE IN FULL ACCORDANCE WITH THE CURRENT EDITION OF NFPA, IBC, AMERICANS WITH DISABILITIES ACT AND ALL OTHER APPLICABLE CODES.
- COORDINATE WITH THE DOOR HARDWARE SET SPECIFICATIONS AND THE OWNER'S SECURITY REPRESENTATIVE TO VERIFY THE DOORS THAT WILL REQUIRE CONNECTION TO THE FIRE ALARM SYSTEM.
- ALL TAMPER, FLOW AND PRESSURE SWITCHES THAT ARE PROVIDED IN THE CONTRACT SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR, WHERE IN UNDERGROUND VAULTS, USE SEALED WATERPROOF CONNECTORS AND SWITCHES. REFER TO FIRE SUPPRESSION SYSTEM SHOP DRAWINGS FOR EACH TYPE OF DEVICE AND LOCATIONS.
- FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS.
- FIRE ALARM SYSTEM CABLEING SHALL BE ROUTED IN CONDUIT. CONDUIT SHALL BE 3/4" MINIMUM OR AS REQUIRED TO SUIT CONDUCTORS. CONDUIT SHALL BE MANUFACTURED RED IN COLOR - FIELD PAINTED RED CONDUIT SHALL NOT BE ACCEPTED.
- PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR AIR HANDLING UNITS THAT ARE 2000 CFM OR GREATER.
- THE SENSITIVITY OF SMOKE DETECTORS SHALL BE ADJUSTED FOR THE SERVICE DUTY IN THE AREA INDICATED, TO SUIT BUILDING OPERATIONAL CONDITIONS.
- WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- RISER DIAGRAM FOR FIRE ALARM SYSTEM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER AND THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR THE LOCAL AUTHORITY HAVING JURISDICTION, AS APPLICABLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES AND LOCATION OF FIRE ALARM DEVICES PRIOR TO SYSTEM ACTIVATION.
- AUTOMATIC FIRE ALARM DETECTORS SHALL BE LOCATED SO AS TO PREVENT SHIELDING BY DUCTWORK, EQUIPMENT AND PIPING ON CEILING. SPAVING BETWEEN DETECTORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS IN ANY CASE. ADDITIONAL DETECTORS SHALL BE PROVIDED IF NEEDED TO INSURE COMPLETE COVERAGE OF THE INDICATED SPACE.
- WHEN CONNECTING TO RANGEHOOD FIRE EXTINGUISHING SYSTEM, COORDINATE WITH SYSTEM INSTALLER TO PROVIDE A NORMALLY - OPEN AUXILIARY CONTACT TO CLOSE ON SYSTEM DISCHARGE FOR ALARM.
- FIRE ALARM SIGNALING DEVICES SHALL BE SEMI-FLUSH TYPE AUDIBLES WITH FLASHING LAMP MOUNTED ON SAME PLATE. SURFACE-MOUNTED UNITS MAY BE USED IN UNFINISHED AREAS.
- NO SMOKE DETECTORS SHALL BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.
- VERIFY FINAL ROOM NAME AND NUMBERING SCHEME USED FOR ANNUNCIATOR LEGENDS IS IN ACCORD WITH THE ACTUAL ROOM NAMES AND NUMBERS FINALLY CHOSEN BY THE OWNER.
- ALL ANNUNCIATOR LEGEND NUMBERING AND/OR ALPHANUMERIC DISPLAY LEGENDS SHALL BE APPROVED BY THE ARCHITECT, OWNER AND LOCAL FIRE DEPARTMENT AUTHORITY, AS APPLICABLE. SUBMIT THIS INFORMATION WITH SHOP DRAWINGS.
- A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.

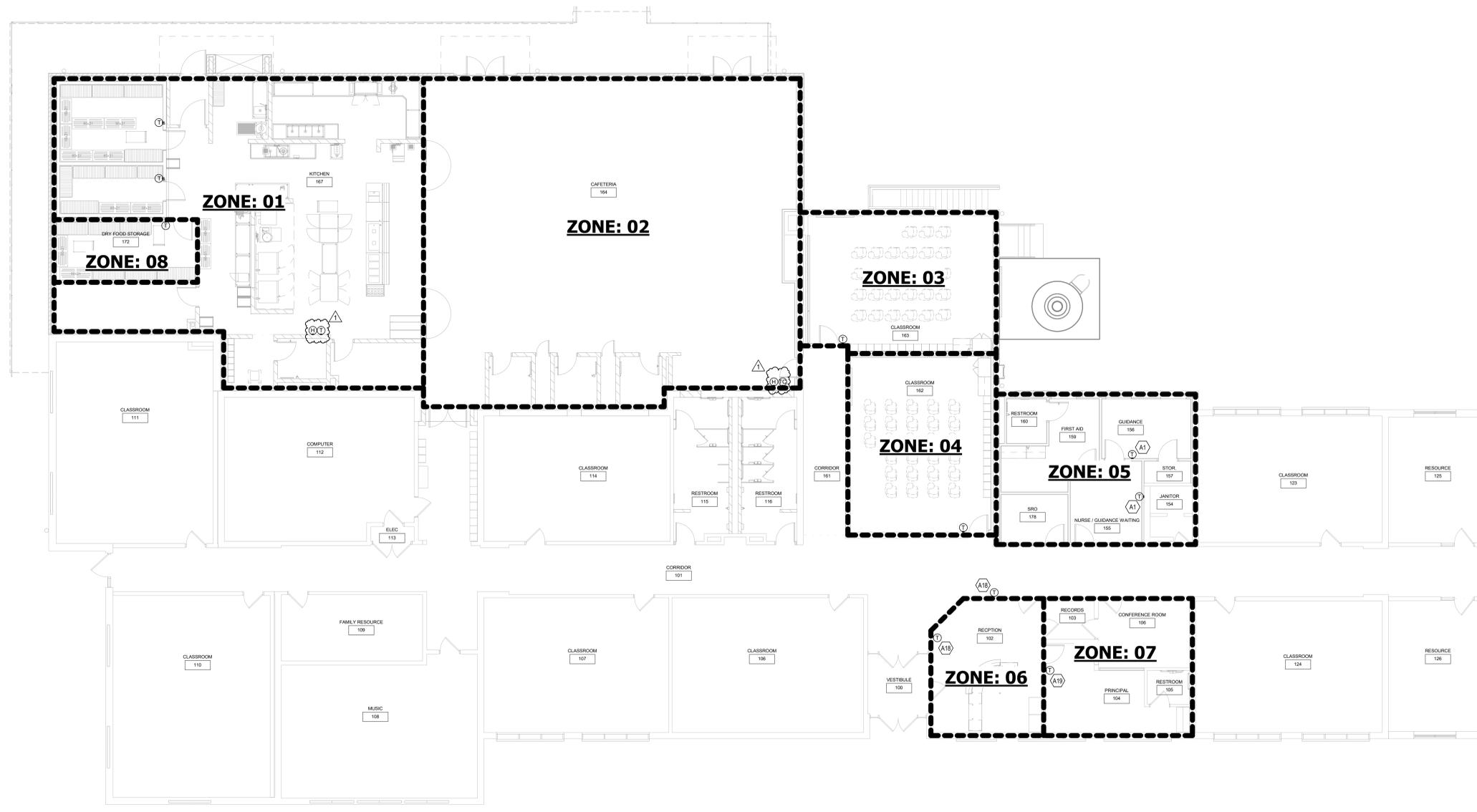
TAGGED NOTES:

- PROVIDE NEW RECESSED MOUNTED, MICROPROCESSOR BASED, FIRE ALARM TRANSPODER PANEL / CENTRAL PROCESSING UNIT (C.P.U.) PANEL, SHALL BE CAPABLE OF MONITORING ALL INDIVIDUALLY ADDRESSABLE ALARM INDICATING DEVICES OR POINTS AS INDICATED AND WITH A MINIMUM OF 20% SPARE CAPACITY FOR FUTURE EXPANSION. ALL SYSTEM EQUIPMENT SHALL BE HOUSED IN A SINGLE CABINET. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- NEW REMOTE FLUSH-MOUNTED FIRE ALARM ANNUNCIATOR STATION WITH LCD DISPLAY. SEE FLOOR PLANS FOR LOCATION(S) AND QUANTITY.
- TO ALL OTHER DEVICES ON LOOP/CIRCUIT AS REQUIRED. REFER TO FLOOR PLAN FOR PROPOSED DEVICE LOCATIONS.
- COORDINATE WITH DRAWINGS FOR ACTUAL NUMBER OF TAMPER, FLOW AND PRESSURE SWITCHES REQUIRED TO BE MOUNTED ON THE FIRE SUPPRESSION RISER AND THE SUPPRESSION ZONES ON EACH FLOOR.
- PROVIDE ZONE ADDRESSABLE MODULE FOR SUPERVISION OF ANCILLARY FIRE PROTECTION/MONITORING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR:
 - FIRE PROTECTION TAMPER, FLOW AND PRESSURE SWITCHES.
 - FIRE PROTECTION POST-INDICATOR VALVE.
 - DRY/CHEMICAL FIRE SUPPRESSION SYSTEMS.
- PROVIDE ADDRESSABLE FIRE ALARM RELAY FOR SIGNAL OUTPUT TO ANCILLARY BUILDING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR:
 - OPERABLE FIRE SHUTTERS TO CLOSE ON FIRE ALARM.
 - ACCESS CONTROL DOORS TO UNLOCK AND POSITIVELY LATCH ON FIRE ALARM.
 - ELEVATOR FOR ALL SPECIFIED AND REQUIRED FUNCTIONS.
- ROUTE CONTROL WIRING (IN CONDUIT) BACK TO NEW HVAC EQUIPMENT CONTROLS FOR AUTOMATIC SHUTDOWN.
- TO ALL OTHER DOOR HOLDERS ON INDICATED FLOOR. DOOR HOLDERS SHALL BE POWERED FROM THE FIRE ALARM SYSTEM CABINETS AND SHALL RELEASE ON FIRE ALARM AS REQUIRED. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULES AND DIVISION 8 AND 28 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW FLUSH-MOUNTED REMOTE ALARMPOWER INDICATING KEY RESET/TEST STATION ON CORRIDOR WALL (WHENEVER POSSIBLE) AT 7'-0" AFF BELOW SMOKE DAMPER/DUCT SMOKE DETECTOR LOCATION AS REQUIRED.
- PROVIDE AN "ISOLATOR MODULE" AT ALL BRANCH RUNS. MOUNT IN A SURFACE NEMA-1 ENCLOSURE ABOVE SUSPENDED CEILING. PROVIDE AS REQUIRED BY SYSTEM MANUFACTURER TO ISOLATE LOOPS ON EACH FLOOR AND WITHIN EACH SMOKE COMPARTMENT.
- ROUTE 120V POWER WIRING THROUGH ADDRESSABLE RELAY MODULE FOR CONTROL OF DAMPER VIA ASSOCIATED DUCT/AREA SMOKE DETECTOR.
- PROVIDE NUMBER OF NOTIFICATION APPLIANCE POWER SUPPLIES, ASSOCIATED 120V CIRCUITS AND SMOKE DETECTORS WITHIN 5' OF NAC PANELS REQUIRED. LOCATE IN ELECTRICAL ROOMS. SUBMIT PROPOSED LOCATIONS IN SHOP DRAWINGS FOR REVIEW.
- PROVIDE SURGE PROTECTION DEVICE AT POINT OF CONDUIT ENTRANCE INTO BUILDING. PROVIDE 5/8" X 10'-0" COPPER-WELD GROUND ROD AT PERIMETER OF BUILDING NEXT TO CONDUIT ENTRANCE AND CONNECT TO SPD'S, COLD WATER LINE AND BUILDING STEEL WITH #3 AWG INSULATED GROUND IN 3/4" CONDUIT.
- ALL CARBON MONOXIDE SOUNDER BASES SHALL SOUND TOGETHER.



1 FIRE ALARM SYSTEM RISER DIAGRAM
NO SCALE

| TAGGED NOTES | |
|--------------|--|
| A1 | PROVIDE ZONE HEAT PUMP WITH 2 TEMPERATURE SENSORS FOR AVERAGE TEMPERATURE CONTROL. |
| A18 | EXISTING THERMOSTAT TO REMAIN. |
| A19 | RELOCATE THERMOSTAT TO THIS LOCATION AND RECONNECT TO EXISTING EQUIPMENT. |



1 MECHANICAL ZONING PLAN
SCALE: 1/8" = 1'-0"

| | |
|---------|------------|
| JOB NO. | 1506.2 |
| DATE | 08/03/2023 |
| DRAWN | ADB |
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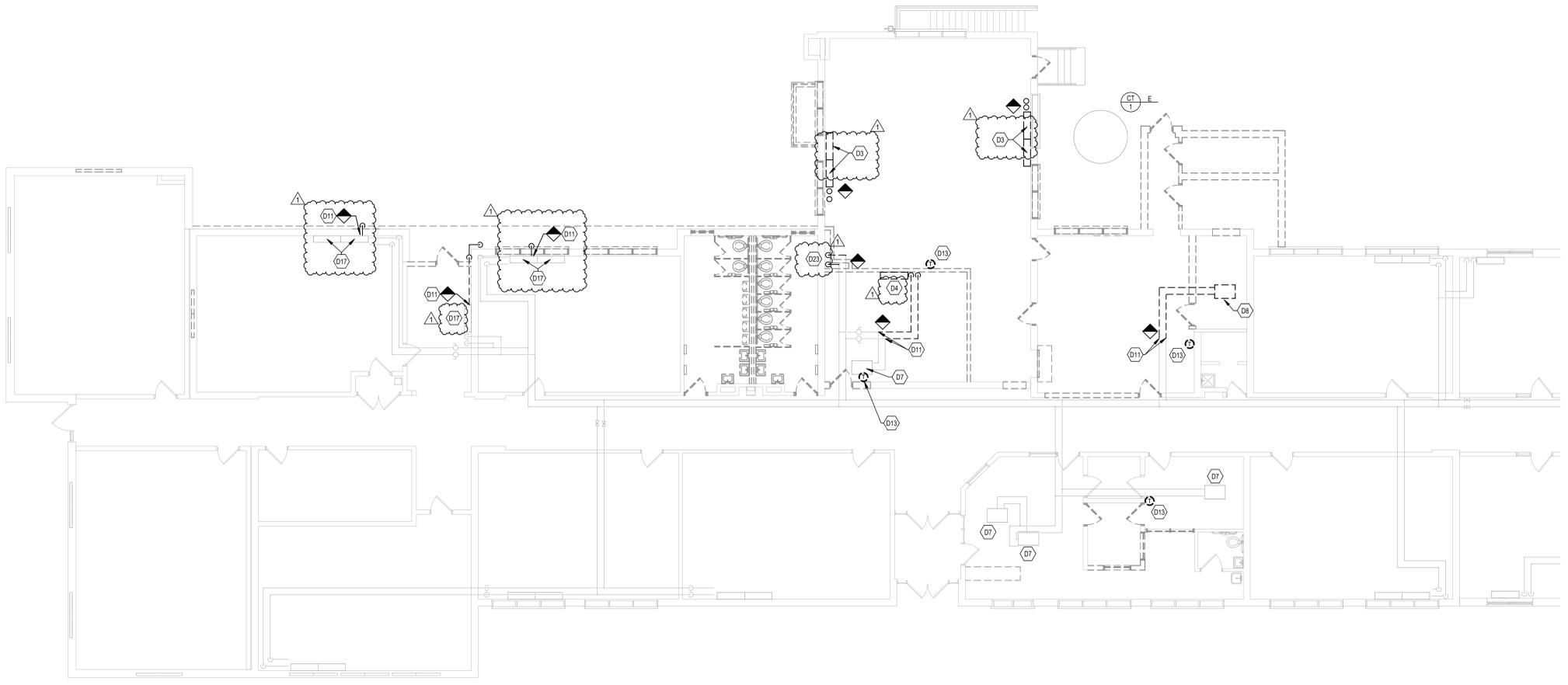
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| REVISIONS | | |
|-----------|-------------|----------|
| No. | Description | Date |
| 1 | ADDENDUM #2 | 08-23-23 |

SHEET

M2.2

| TAGGED NOTES | |
|--------------|--|
| D3 | CONSOLE HEAT PUMP TO BE SAFELY REMOVED AND REUSED FOR NEW CLASSROOMS. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION. |
| D4 | COMPLETELY REMOVE EXISTING CONSOLE HEAT PUMPS INCLUDING ASSOCIATED PIPING, INSULATION, SUPPORTS AND CONTROLS. |
| D7 | EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION. PRETEST AIRFLOWS PRIOR TO DEMOLITION AND REPORT TO ENGINEER. COVER OA EQUIPMENT INTAKES WITH FILTER MEDIA DURING CONSTRUCTION. |
| D8 | COMPLETELY REMOVE EXISTING CEILING HUNG UNIT INCLUDING ASSOCIATED HYDRONIC PIPING, CONDENSATE, VALVES, SUPPORTS AND CONTROLS. |
| D11 | REMOVE PIPING TO POINT INDICATED. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION. |
| D13 | EXISTING THERMOSTAT CONTROLS TO BE REMOVED. |
| D17 | CONSOLE HEAT PUMPS TO BE SAFELY REMOVED TO DEMO CONDENSATE AND REWORK PIPING. CONSOLE HEAT PUMPS TO BE REINSTALLED IN THE SAME LOCATION. SEE NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION. |
| D23 | DEMOLISH 4" CWS/R PIPING TO MECHANICAL ROOM BELOW. REFER TO SHEET M4.0 FOR CONTINUATION. |



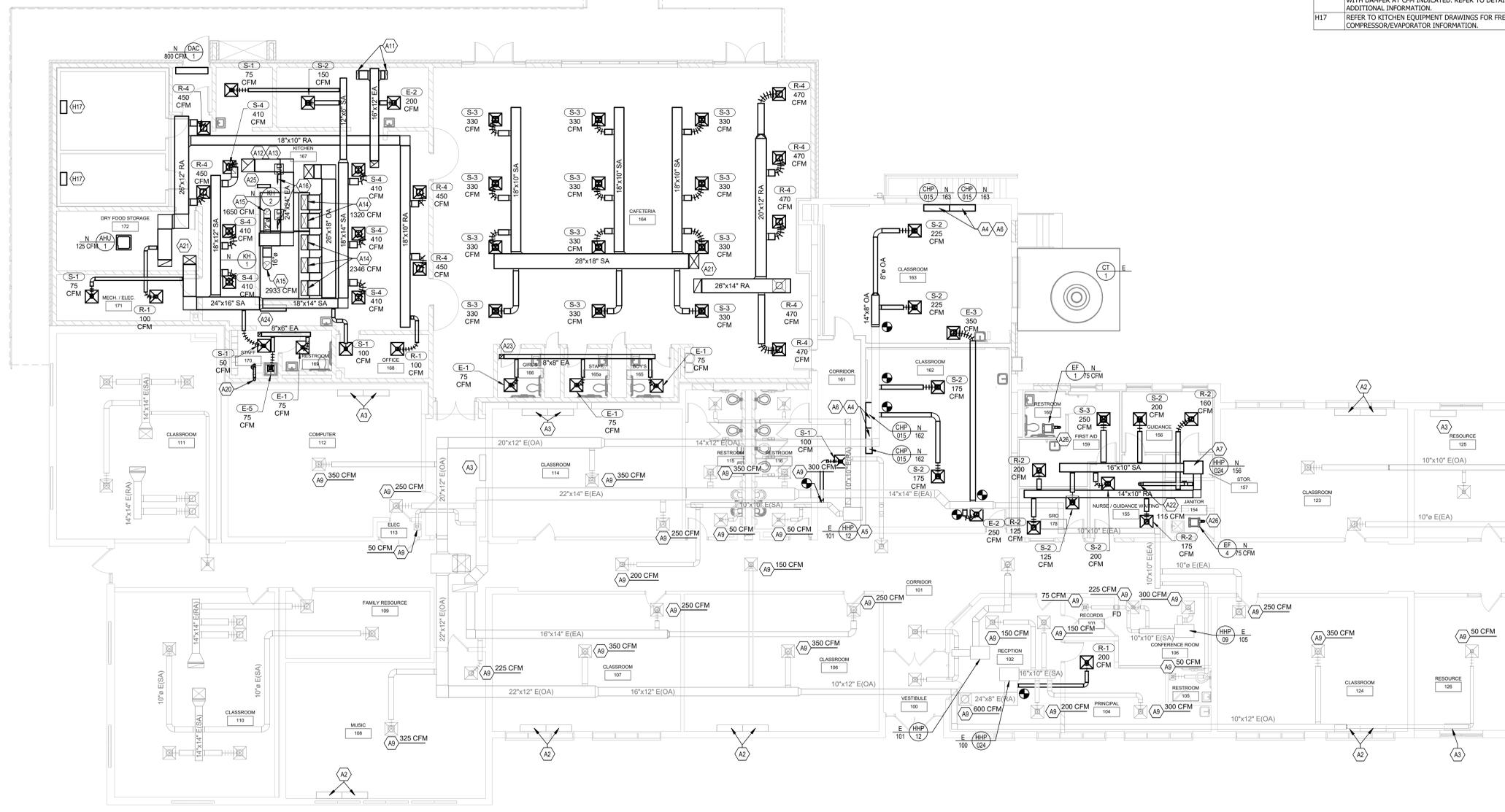
1 FIRST FLOOR PLAN - HYDRONICS DEMOLITION
SCALE: 1/8" = 1'-0"

LEGRANDE ELEMENTARY - IMC 2015/ASHRAE 62.1-2010 - VENTILATION CALCULATIONS

| ROOM NUMBER | ROOM NAME | ROOM TYPE | Az FLOOR AREA (SF) | #/1000 SF | ASHRAE OCCUPANCY (Pz) | ASHRAE GA PER PERSON (Rp) | (Pz * Rp) | ASHRAE REQUIRED CFM/SF (Ra) | (Ra * Az) | Ez FOR SQFT ONLY | Ez ZONE AIR DISTRIBUTION EFFECTIVENESS | ASHRAE OA AIRFLOW (CFM) | ACTUAL OA AIRFLOW (CFM) |
|-------------|------------------------|--------------------|--------------------|-----------|-----------------------|---------------------------|-----------|-----------------------------|-----------|------------------|--|-------------------------|-------------------------|
| 167 | KITCHEN | KITCHEN (COOKING) | 1511 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 168 | OFFICE | OFFICE SPACE | 92 | 5 | 1 | 5 | 5 | 0.06 | 6 | 6 | 1.0 | 11 | 15 |
| 169 | RESTROOM | RESTROOM | 50 | 0 | 3 | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 170 | STAFF | BREAKROOM | 55 | 50 | 1 | 5 | 14 | 0.12 | 7 | 7 | 1.0 | 21 | 25 |
| 171 | MECH/ELEC | MECHANICAL ROOM | 152 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 172 | DRY FOOD STORAGE | STORAGE ROOM | 207 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 164 | CAFETERIA | CAFETERIA | 2687 | 100 | 269 | 10 | 2015 | 0.18 | 484 | 484 | 1.0 | 2499 | 2500 |
| 165 | BOYS | RESTROOM | 49 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 165A | STAFF | RESTROOM | 49 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 166 | GIRLS | RESTROOM | 49 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 161 | CORRIDOR | CORRIDOR | 202 | 0 | | 0 | | 0.06 | 13 | 13 | 1.0 | 13 | 15 |
| 162 | CLASSROOM | CLASSROOM (AGE 9+) | 638 | 35 | 22 | 10 | 222 | 0.12 | 77 | 77 | 1.0 | 299 | 300 |
| 163 | CLASSROOM | CLASSROOM (AGE 9+) | 638 | 35 | 22 | 10 | 223 | 0.12 | 77 | 77 | 1.0 | 300 | 305 |
| 154 | JANITOR | MECHANICAL ROOM | 55 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 155 | NURSE/GUIDANCE WAITING | RECEPTION | 143 | 30 | 4 | 5 | 21 | 0.06 | 9 | 9 | 1.0 | 30 | 35 |
| 156 | GUIDANCE | OFFICE SPACE | 141 | 5 | 1 | 5 | 4 | 0.06 | 9 | 9 | 1.0 | 13 | 15 |
| 157 | RECORDS | STORAGE ROOM | 26 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 159 | FIRST AID | DAYCARE SICKROOM | 161 | 25 | 2 | 10 | 20 | 0.18 | 29 | 29 | 1.0 | 49 | 50 |
| 160 | RESTROOM | RESTROOM | 45 | 0 | | 0 | | 0 | 0 | 0 | 1.0 | 0 | 0 |
| 178 | SRO | OFFICE SPACE | 83 | 5 | 1 | 5 | 5 | 0.06 | 5 | 5 | 1.0 | 10 | 10 |

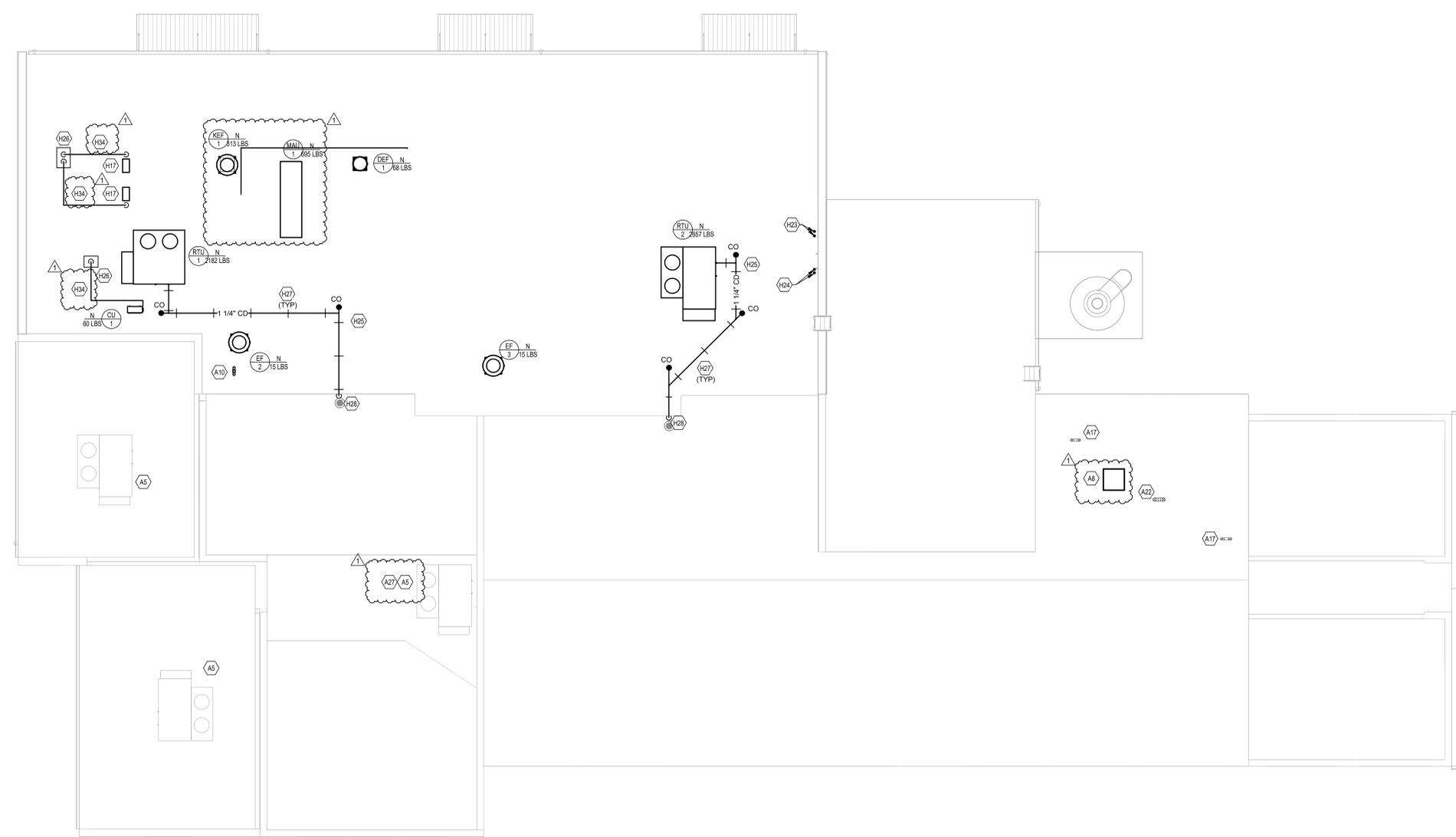
TAGGED NOTES

- A2 EXISTING CONSOLE HEAT PUMPS TWINNED TOGETHER TO REMAIN. PROTECT DURING CONSTRUCTION.
- A3 REINSTALL EXISTING CONSOLE HEAT PUMPS WITH NEW CONDENSATE PIPE ROUTING.
- A4 EXISTING CONSOLE HEAT PUMPS TO BE REUSED IN THIS LOCATION. HEAT PUMPS TO BE TWINNED TOGETHER.
- A5 EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION. EXISTING DUCTWORK AND GRILLES TO BE THOROUGHLY CLEANED AND REBALANCED. PRETEST AIRFLOWS PRIOR TO REBALANCING AND REPORT TO ENGINEER. ROOFTOP UNITS SHALL REMAIN.
- A6 INSTALL NEW CONSOLE HEAT PUMP PER DETAIL.
- A7 INSTALL NEW HEAT PUMP PER DETAIL.
- A9 EXISTING DEVICE TO REMAIN. BALANCE AIRFLOW TO NOTED CFM.
- A11 EXTEND 16" DUCT DOWN TO DISHWASHER AND CONNECT WITH BALANCING DAMPER. BALANCE FOR 400 CFM. ALL DUCTWORK SHALL BE WELDED AND POLISHED STAINLESS STEEL.
- A12 GREASE DUCTWORK SHALL BE WELDED STEEL. CONSTRUCTION SLOPED BACK TO HOOD AT 2% GRADE (MIN.). WRAP ENTIRE DUCT WITH GREASE DUCT FIRE PROTECTION SYSTEM EQUAL TO JOHN MANVILLE "SUPER FIRETEMP" DUCT ENCLOSURE AND FIRE STOP SYSTEM MEETING ASTM E814 (3 HOUR ENCLOSURE).
- A13 PROVIDE GREASE DUCT CLEANOUTS AT 20'-0" INTERVALS AND 10'-0" FROM ENDS AND AT ALL CHANGES IN DIRECTION.
- A14 EXTEND AND CONNECT INDICATED 20" DIA SUPPLY DUCT TO KITCHEN HOOD SUPPLY PLENUM AND BALANCE TO AIRFLOW INDICATED.
- A15 CONNECT GREASE DUCT TO KITCHEN HOOD AND BALANCE TO AIRFLOW INDICATED.
- A16 PROVIDE ACCESS DOOR IN KITCHEN EXHAUST DUCT PER CODE.
- A20 6" DRYER VENT. PROVIDE DRYER BOX, LINT TRAP AND CLEANOUT. TERMINATE VENT AT ROOF AS SHOWN ON ROOF PLAN. TERMINATE WITH GOOSENECK FITTING.
- A21 EXTEND UNIT INLET/OUTLET DUCT SIZES THROUGH ROOF AND TRANSITION TO INDICATED DUCT SIZE IN JOIST SPACE.
- A22 6" Ø OA THROUGH ROOF WITH GOOSENECK DISCHARGE. BALANCE WITH DAMPER AT CFM INDICATED. REFER TO DETAIL FOR ADDITIONAL INFORMATION. MAINTAIN MINIMUM 10' DISTANCE BETWEEN EXHAUST TERMINATIONS AND OUTDOOR AIR INTAKES.
- A23 8X8 EA DUCT UP THRU ROOF. SEE M3.2 FOR CONTINUATION.
- A24 KITCHEN HOOD CONTROL AND FIRE CABINET. HIGH ON WALL BELOW CEILING. INSTALL PER MANUFACTURER REQUIREMENTS.
- A25 DOC KITCHEN CONTROL PANEL. REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- A26 4" Ø EA THROUGH ROOF WITH GOOSENECK DISCHARGE. BALANCE WITH DAMPER AT CFM INDICATED. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- H17 REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FREEZER/COOLER COMPRESSOR/EVAPORATOR INFORMATION.



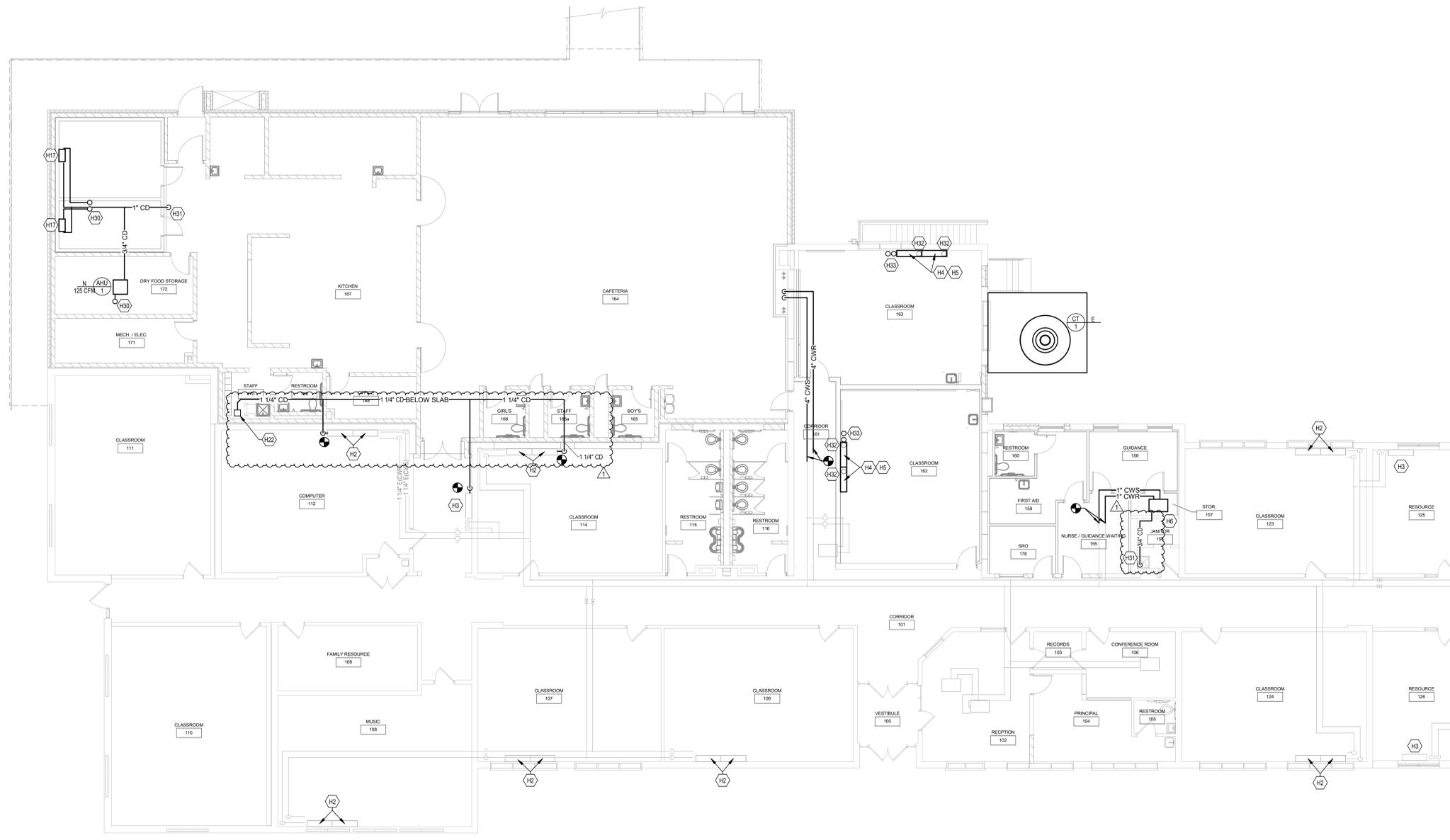
1 FIRST FLOOR PLAN - MECHANICAL NEW WORK
SCALE: 1/8" = 1'-0"

| TAGGED NOTES | |
|--------------|--|
| A5 | EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION. EXISTING DUCTWORK AND GRILLES TO BE THOROUGHLY CLEANED AND REBALANCED. PRETEST AIRFLOWS PRIOR TO REBALANCING AND REPORT TO ENGINEER. ROOFTOP UNITS SHALL REMAIN. |
| A8 | PROVIDE ROOF CURB CAP PER DETAIL. COORDINATE WITH CURRENT ROOF WARRANTY AND INSTALLER. |
| A10 | EXTEND DRYER VENT DUCT UP THROUGH ROOF. SEE GOOSENECK ROOF PENETRATION DETAIL FOR ADDITIONAL INFORMATION. PROVIDE LINT TRAP/CLEANOUT AT DRYER, IF APPLICABLE. |
| A17 | 4"Ø EA DUCT FROM EXHAUST FAN. TERMINATE DUCT WITH ROOF CURB, GOOSENECK FITTING AND BIRDSCREEN. MAINTAIN MINIMUM 10' DISTANCE BETWEEN EXHAUST TERMINATION AND OUTDOOR AIR INTAKES. |
| A22 | 6"Ø OA THROUGH ROOF WITH GOOSENECK DISCHARGE. BALANCE WITH DAMPER AT CFM INDICATED. REFER TO DETAIL FOR ADDITIONAL INFORMATION. MAINTAIN MINIMUM 10' DISTANCE BETWEEN EXHAUST TERMINATIONS AND OUTDOOR AIR INTAKES. |
| A27 | REPLACE SUPPLY AND EXHAUST FAN BELTS AND SHEAVES TO OBTAIN AIRFLOWS INDICATED. |
| H17 | REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FREEZER/COOLER COMPRESSOR/EVAPORATOR INFORMATION. |
| H23 | EXTEND COMBUSTION AIR INTAKE TERMINATION THROUGH ROOF AND TURN DOWN WITH 90° ELBOW. PROVIDE WITH MESH SCREEN. SEE TYPICAL COMBUSTION AIR ROOF PENETRATION DETAIL FOR ADDITIONAL INFORMATION. |
| H24 | EXTEND FLUE GAS EXHAUST TERMINATION THROUGH ROOF AND MINIMUM 4' ABOVE INTAKE TERMINATION. TERMINATION TO BE MINIMUM 4' FROM INTAKE TERMINATION. SEE TYPICAL COMBUSTION AIR ROOF PENETRATION DETAIL FOR ADDITIONAL INFORMATION. |
| H25 | EXTEND CONDENSATE TO ROOF DRAIN. |
| H26 | ROUTE THE PIPING DOWN THROUGH THE ROOF. REFER TO M4.2 FOR CONTINUATION. PROVIDE CURB WITH CHASE. REFER TO PIPE CHASE ROOF CURB DETAIL FOR ADDITIONAL INFORMATION. |
| H27 | PROVIDE PIPE SUPPORTS FOR ROOFTOP PIPING 8'-0" ON CENTER. |
| H28 | CONDENSATE PIPE DOWN TO ROOF DRAIN. SECURE TO STRUCTURE. |
| H34 | REFER TO MANUFACTURER INSTRUCTIONS FOR PIPE SIZING. |

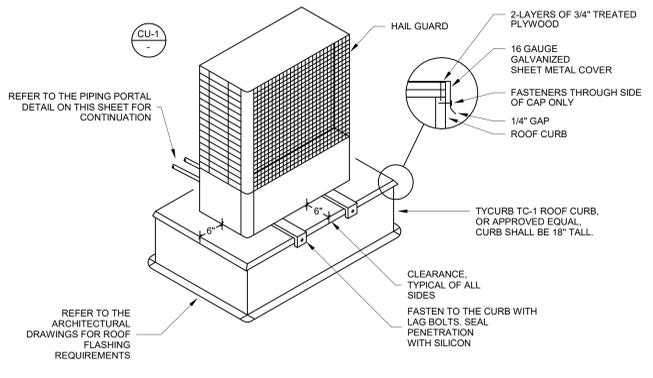


1 ROOF PLAN - MECHANICAL NEW WORK
SCALE: 1/8" = 1'-0"

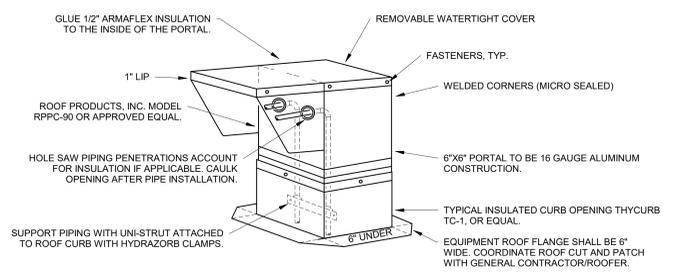
| TAGGED NOTES | |
|--------------|---|
| H2 | EXISTING CONSOLE HEAT PUMPS TWINNED TOGETHER TO REMAIN. PROTECT DURING CONSTRUCTION. |
| H3 | EXISTING CONSOLE HEAT PUMP TO REMAIN. PROTECT DURING CONSTRUCTION. |
| H4 | CONSOLE HEAT PUMPS FROM ENERGY SOLUTIONS PACKAGE TO BE REINSTALLED IN THIS LOCATION. HEAT PUMPS TO BE TWINNED TOGETHER. |
| H5 | INSTALL NEW CONSOLE HEAT PUMP PER DETAIL. |
| H6 | INSTALL NEW HEAT PUMP PER DETAIL. PROVIDE NEW HYDRONIC BRANCH PIPING AND REUSE SAME CONDENSATE PATHWAY FOR NEW CONDENSATE PIPING. |
| H17 | REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FREEZER/COOLER COMPRESSOR/EVAPORATOR INFORMATION. |
| H22 | EXTEND 1-1/4" CONDENSATE PIPE UNDERSLAB TO CONDENSATE DRAIN PIT. SEE CONDENSATE DRAIN PIT DETAIL ON PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. |
| H30 | REFRIGERANT PIPING UP THROUGH ROOF TO CONDENSER. SIZE PIPING PER MANUFACTURER'S INSTRUCTIONS. SEE ROOF PLAN FOR CONTINUATION. |
| H31 | ROUTE CONDENSATE AND SPILL TO FLOOR DRAIN/POP SINK. |
| H32 | ROUTE CONDENSATE PIPE DOWN TO BASEMENT. SEE M4.0 FOR CONTINUATION. |
| H33 | ROUTE HYDRONICS PIPES DOWN TO BASEMENT. SEE M4.0 FOR CONTINUATION. |



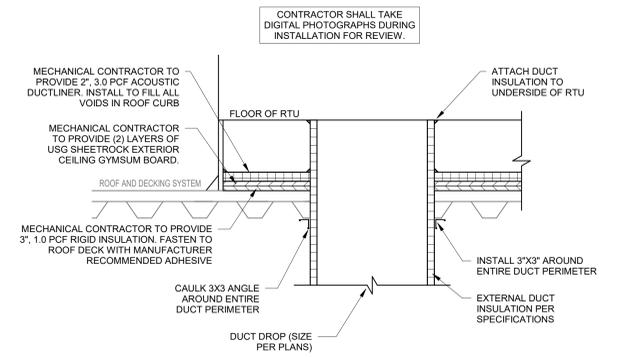
1 FIRST FLOOR PLAN - HYDRONICS NEW WORK
SCALE: 1/8" = 1'-0"



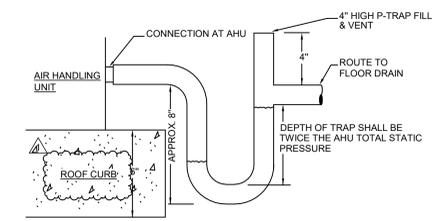
1 ROOF MOUNTED CONDENSING UNIT DETAIL
NO SCALE



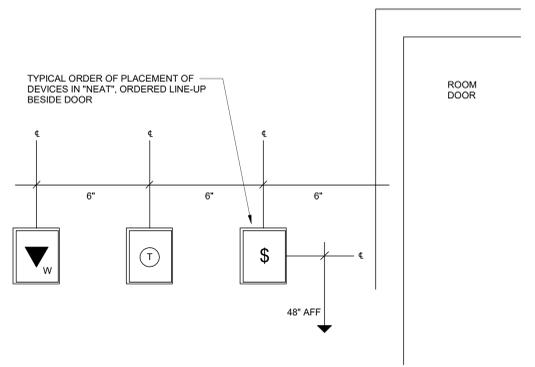
2 PIPE CHASE ROOF CURB DETAIL
NO SCALE



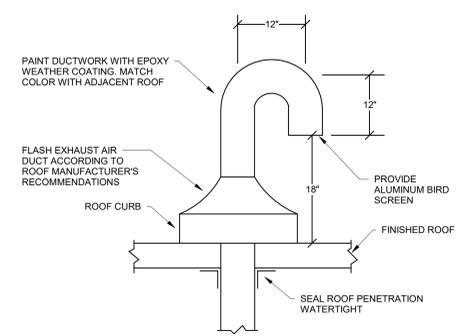
3 ACOUSTICAL TREATMENT OF RTU DETAIL
NO SCALE



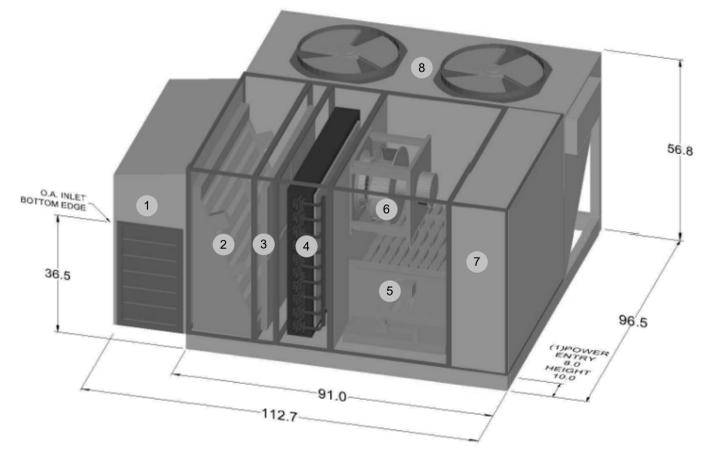
4 TYPICAL AIR HANDLER CONDENSATE DRAIN TRAP DETAIL
NO SCALE



5 WALL SENSOR DETAIL
NO SCALE

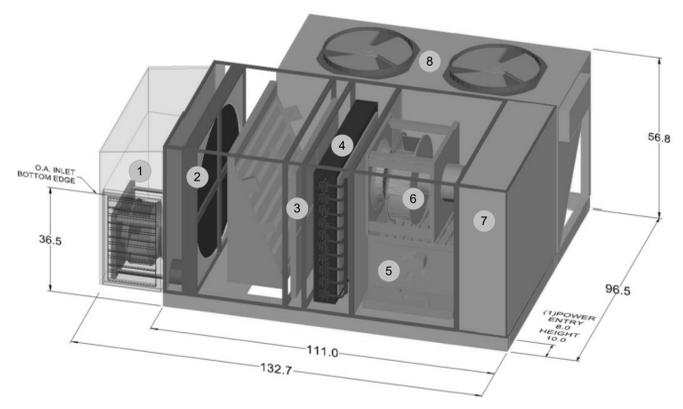


6 GOOSENECK ROOF PENETRATION DETAIL
NO SCALE



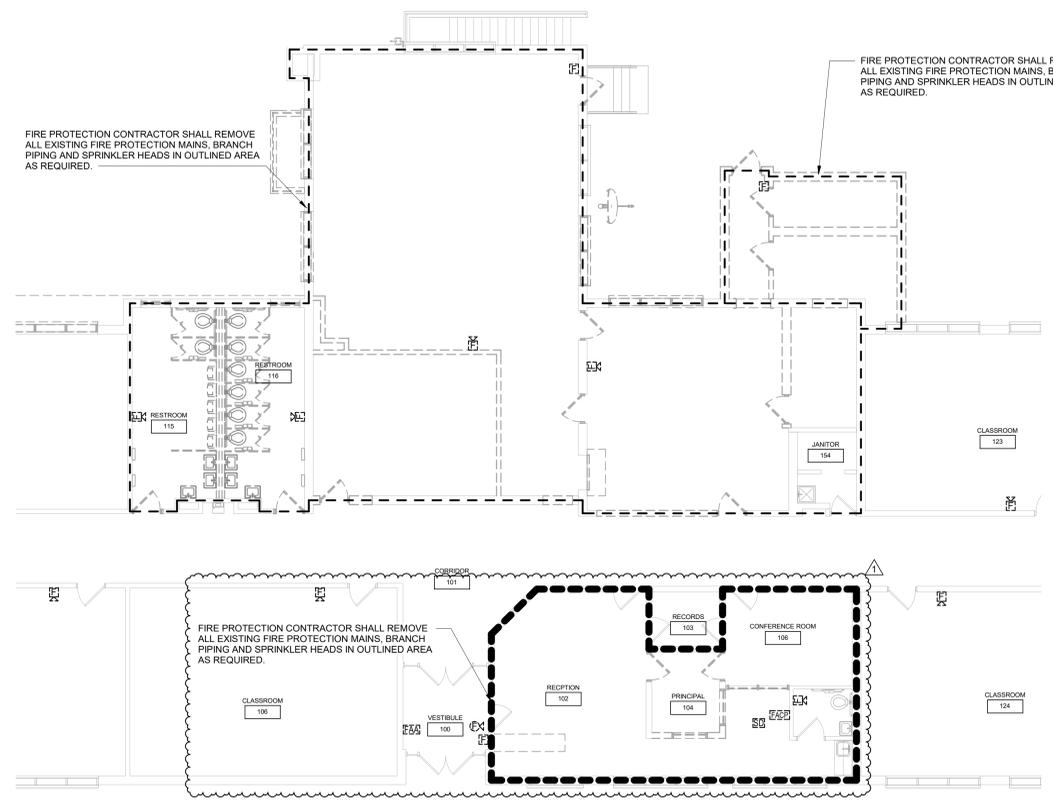
- RTU-1 SECTIONS:
1. OA HOOD
 2. OUTSIDE AIR SECTION
 3. FILTER SECTION
 4. DX COOLING COIL
 5. GAS HEAT SECTION
 6. SUPPLY FAN AND DISCHARGE
 7. CONTROL PANEL
 8. CONDENSER SECTION

7 RTU-1 CONFIGURATION
NO SCALE



- RTU-2 SECTIONS:
1. OA INLET AND FAN
 2. ENERGY RECOVERY WHEEL
 3. FILTER SECTION
 4. DX COOLING COIL
 5. GAS HEAT SECTION
 6. SUPPLY FAN AND DISCHARGE
 7. CONTROL PANEL
 8. CONDENSER SECTION

8 RTU-2 CONFIGURATION
NO SCALE



1 FIRST FLOOR PLAN - FIRE PROTECTION DEMOLITION
NO SCALE

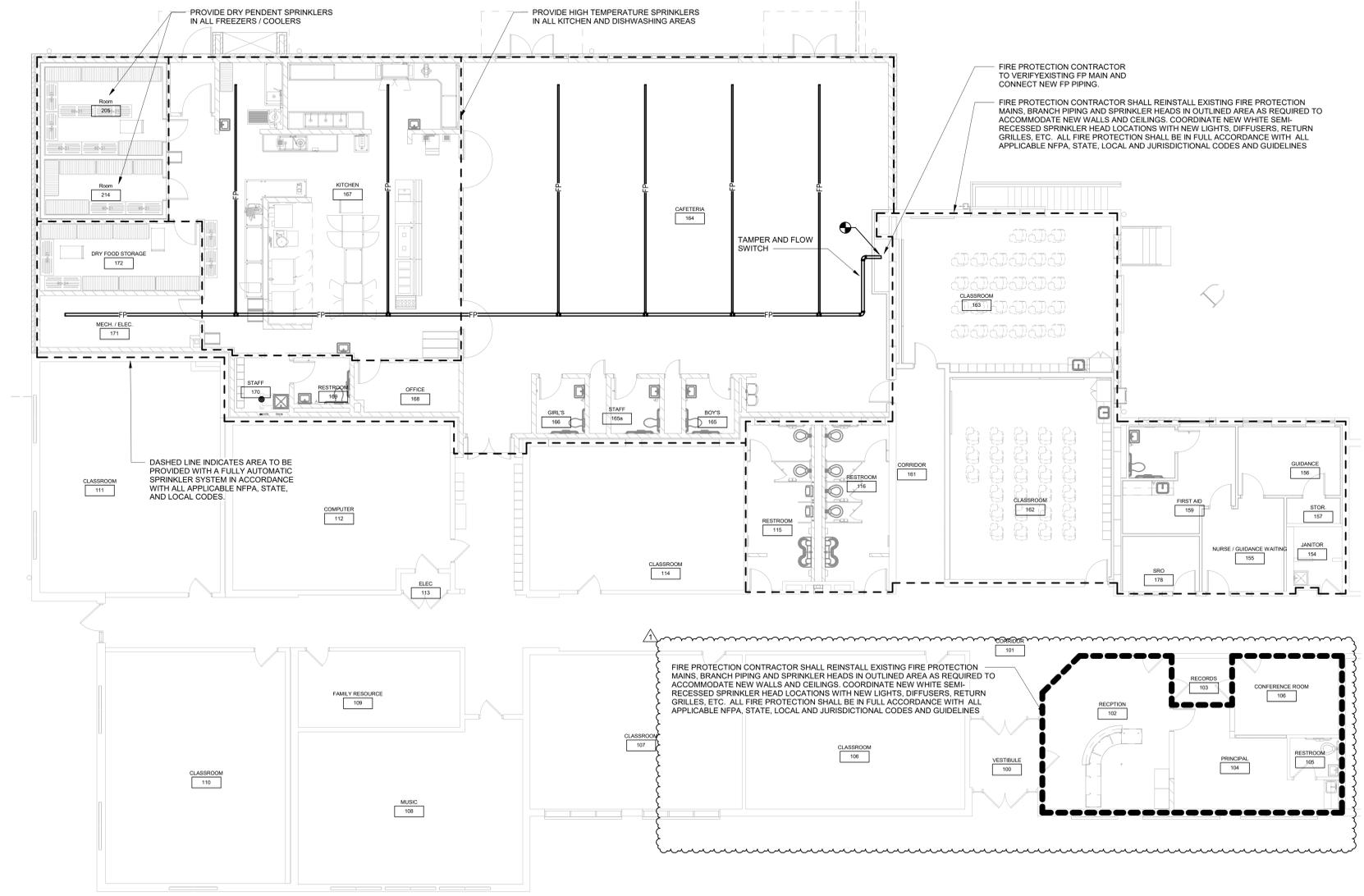
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| JOB NO. | 1506.2 |
| DATE | 08/03/2023 |
| DRAWN | AME |
| CHECKED | JRE |

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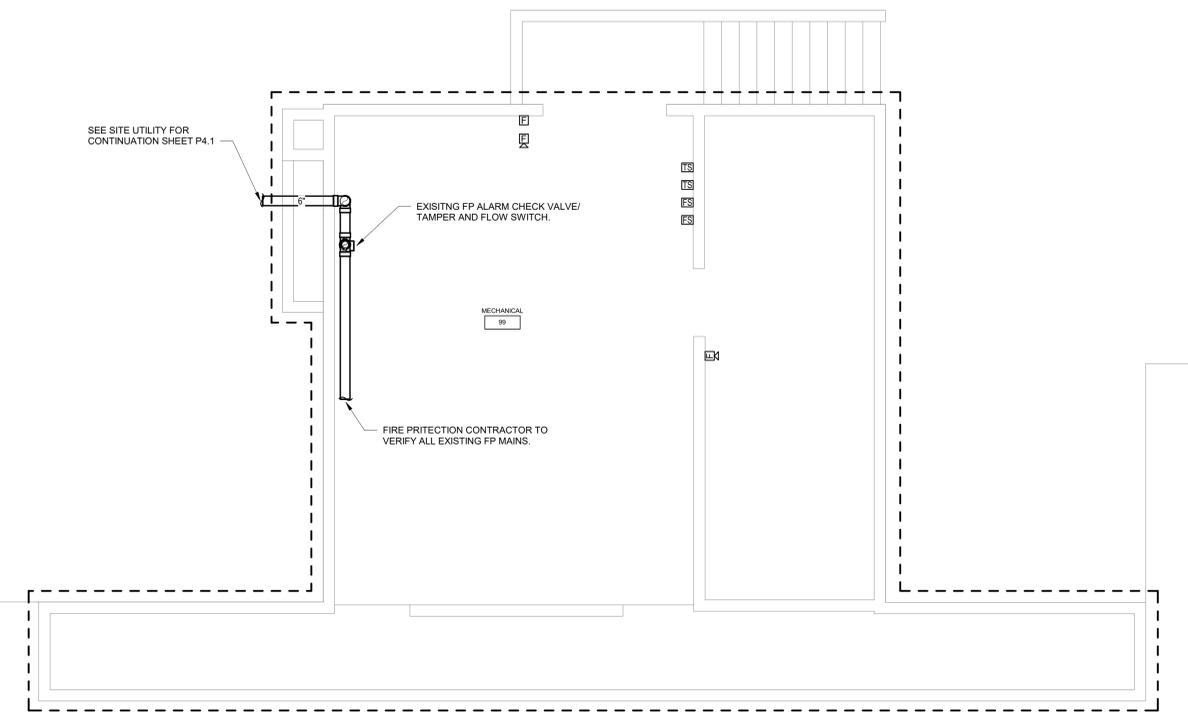
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| 1 | ADDENDUM #2 | 08-23-23 |
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| | | |

SHEET

FP1.0



1 FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"



2 ENLARGED BASEMENT PLAN - FIRE PROTECTION
NO SCALE

| | |
|---------|------------|
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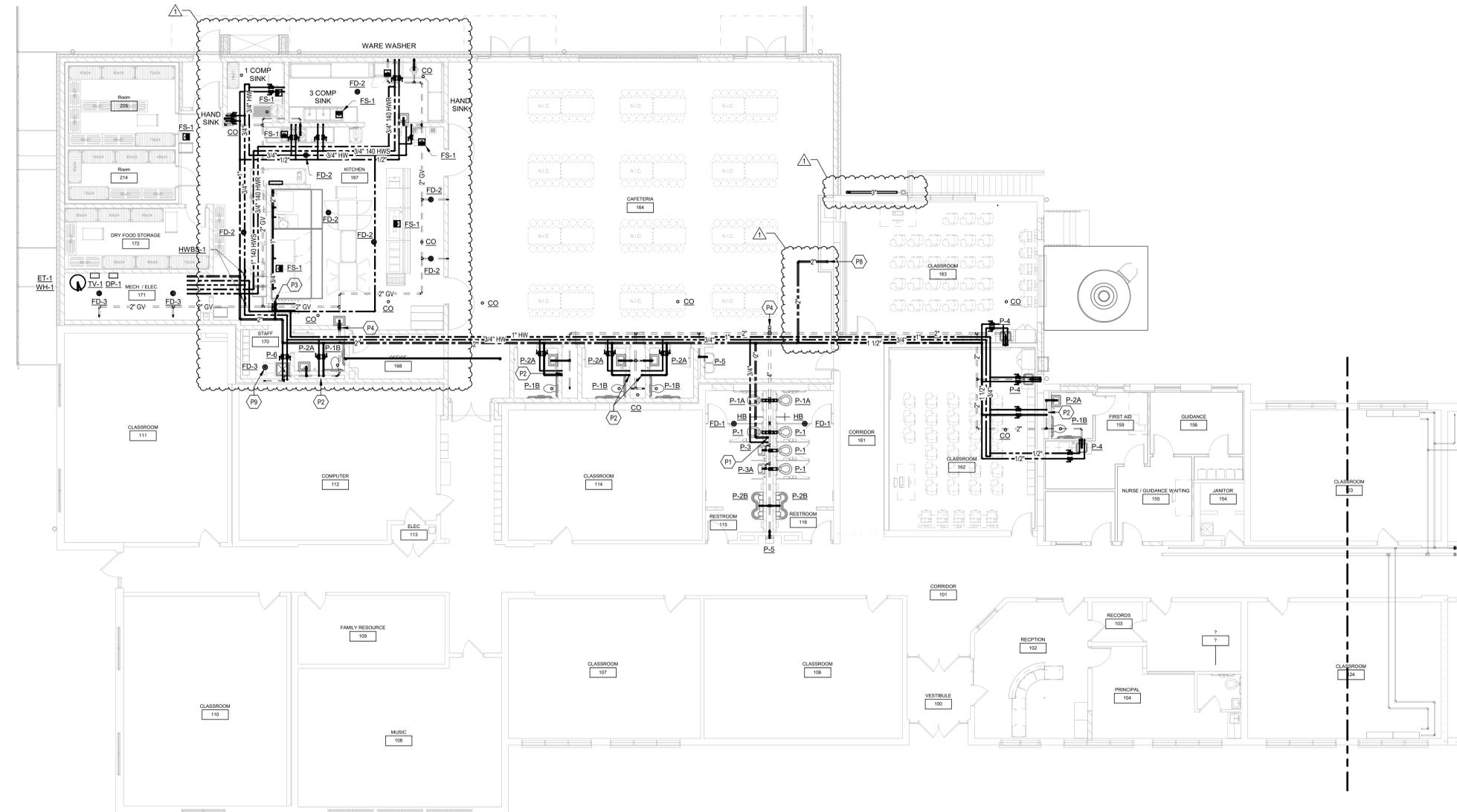
FP1.1

GENERAL PLUMBING NOTES:

1. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO EX. LINES. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.
2. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES AND MATERIALS AS REQUIRED, INCLUDING ALL LABOR AND INCIDENTALS NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.
3. THE PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR PRESENTATION TO THE OWNER.
4. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE. NATURAL GAS PIPING SHALL NOT BE ROUTED BELOW CONCRETE SLAB ON GRADE WITHIN BUILDING.
5. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.
6. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
7. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH FIRE PROTECTION DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTINGS CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED IN A CONCEALED MANNER.
8. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.
9. ALL ADA ACCESSIBLE LAVATORIES AND SINKS WITH EXPOSED WATER AND DRAIN PIPES SHALL BE INSULATED TO PROTECT AGAINST CONTACT PER ADA REQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.
10. WHERE USED, THE TERM "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL".
11. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
12. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.
13. WHERE APPLICABLE, THE EXISTING CONDITIONS INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.

TAGGED NOTES

| | |
|----|---|
| P1 | 2" CW AND 3/4" HW DN IN CHASE. EXTEND TO FIXTURES AND CONNECT. PROVIDE WATER HAMMER ARRESTORS AS SPECIFIED. |
| P2 | 1-1/2" CW, 1/2" HW DN IN CHASE TO FIXTURES. PROVIDE WATER HAMMER ARRESTORS AS SPECIFIED. |
| P3 | 1-1/2" CW DN 2'-0" A.F.F. AND ROUTE TO KITCHEN EQUIPMENT. |
| P4 | 4" VTR |
| P6 | 2" DOMESTIC WATER DN TO MECHANICAL ROOM AND CONNECT. |
| P9 | MECHANICAL CONDENSATE PIT - 3" FLOOR DRAIN 18" BELOW A.F.F. REFER TO DETAIL ON SHEET P1.0 |



1 FIRST FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

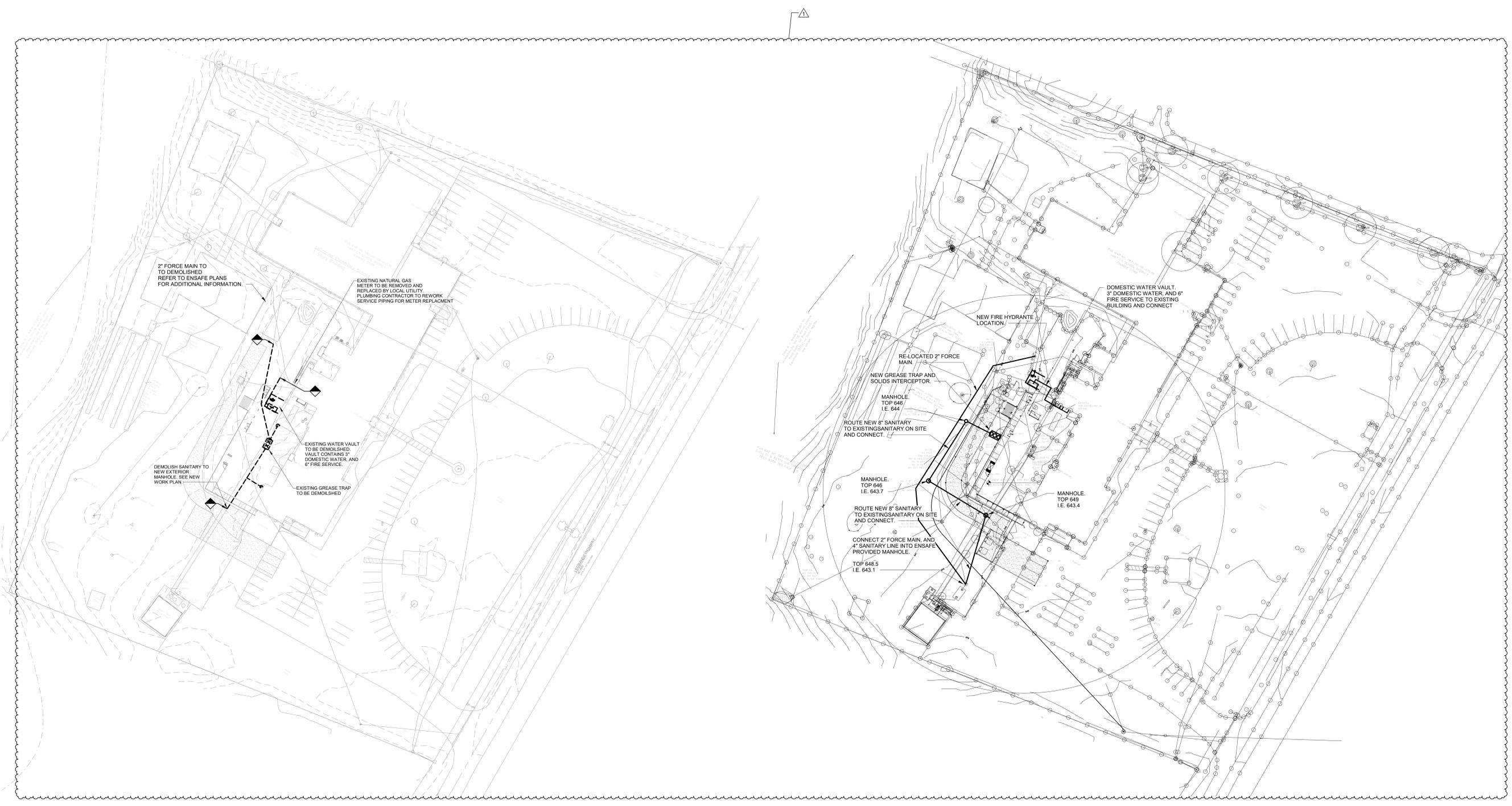
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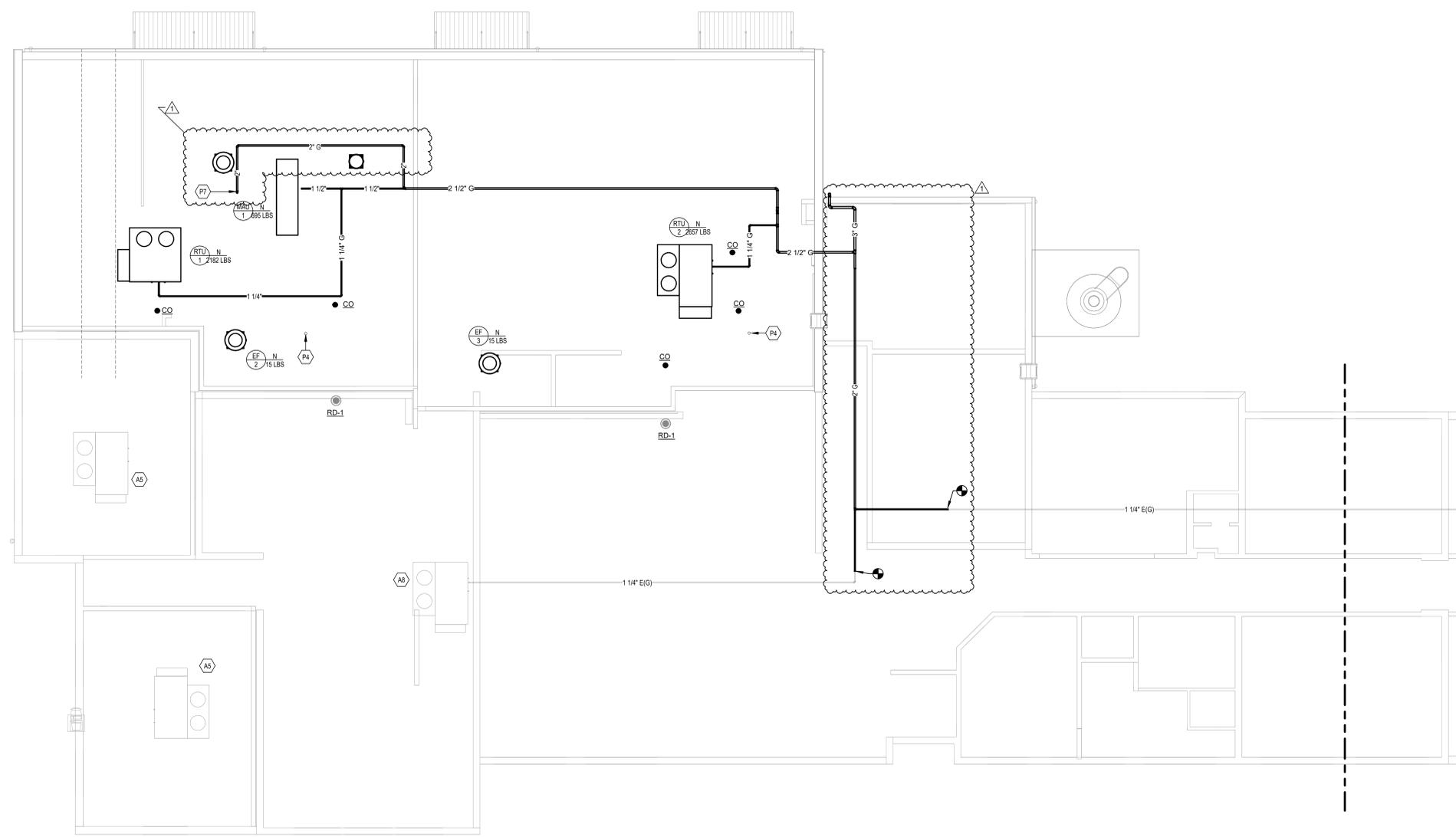
P4.1



1 SITE UTILITY PLAN - PLUMBING DEMOLITION
SCALE: 1" = 40'-0"

2 SITE UTILITY PLAN - PLUMBING
NO SCALE

| TAGGED NOTES | |
|--------------|--|
| A5 | EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION. EXISTING DUCTWORK AND GRILLES TO BE THOROUGHLY CLEANED AND REBALANCED. PRETEST AIRFLOWS PRIOR TO REBALANCING AND REPORT TO ENGINEER. ROOFTOP UNITS SHALL REMAIN. |
| A8 | PROVIDE ROOF CURB CAP PER DETAIL. COORDINATE WITH CURRENT ROOF WARRANTY AND INSTALLER. |
| P4 | 4" VITX |
| P7 | ROUTE 2" NATURAL GAS LINE DN THRU ROOF. |



1 ROOF PLAN - PLUMBING - OVERALL
NO SCALE