117 S. Main Street, Suite 100 - Seattle, Washington 98104 - 206.628.3137 - FAX 206.628.3138

Addendum #02

Date: February 1, 2023

Project: Longview School District Heat Pump Replacement and Indoor Air Quality Improvements

The additions, clarifications and corrections herein shall be made to the Project Manual, Drawings and Schedules for the above-referenced project, and shall be included in the scope of work and proposals to be submitted.

NOTE: References made below to the Project Manual and Drawings shall be used as a general guide only. The Bidders themselves shall determine the work affected by the Addendum items.

PROJECT MANUAL ITEMS

Item #01 — Section 000110 TABLE OF CONTENTS
Add. #02 — **ADD:** Section 095123 – Acoustical Tile Ceilings.
ADD: Section 096500 – Resilient Flooring.

Item #02 — Section 032000 CONCRETE REINFORCING
Add. #02 — **ADD:** paragraph 1.3.N. in its entirety to read the following and renumber subsequent paragraphs.

N. Sustainable Design Submittals

1. Embodied Carbon Submittals:
   a. Life-cycle assessment conforming to ISO 14044; Product -specific Type III EPD Internally Reviewed or Facility Specific.
      1.) Environmental Product Declarations for concrete reinforcing.

2. Sourcing of Raw Materials - Recycled Content Submittals:
   a. Indicate recycled content of concrete reinforcing; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.

ADD: paragraph 2.1. in its entirety to read the following and renumber subsequent paragraphs.

2.1 SUSTAINABILITY CHARACTERISTICS

A. Embodied Carbon - Concrete Reinforcing

integrus ARCHITECTURE

117 S. Main Street, Suite 100 - Seattle, Washington 98104 - 206.628.3137 - FAX 206.628.3138

1. Provide a Type III Product-Specific or Facility Specific Environmental Product Declaration (EPD) that documents compliance with the following:
   a. Embodied Carbon Limit: 630 kg CO2e.
   b. System Boundary Product Stage: A1-A3.
   c. Declared Unit: Fabricated cubic meter.
   d. Product Category Rules:
      1) North American Product Category Rule for Designated Steel Construction Products, dated April 29, 2015.

2. Responsible Sourcing of Raw materials - Concrete Reinforcing
   a. Source concrete reinforcing domestically.
   b. Recycled content: Minimum 67% post-consumer recycled content.

Item #03 Section 033000 CAST-IN-PLACE CONCRETE

Add. #02 **ADD:** 1.3.H in its entirety to read the following and renumber subsequent paragraphs.

H. Sustainable Design Submittals

1. Embodied Carbon Submittals:
   a. Environmental Product Declarations: Submit product-specific Environmental Product Declarations (EPDs) for each product (mix design) proposed on the project.
      1) Life-cycle assessment conforming to ISO 14044; Product-specific Type III EPD-Internally Reviewed - Products with 3rd party certification or EPD which conforms to ISO 14025 and EN 15804 or ISO 21930.
      2) Provide compliant embodied carbon optimization report or action plan separate from LCA or EPD.

ADD: 2.1.B in its entirety to read the following and renumber subsequent paragraphs.

B. Sustainability Characteristics

1. Meet CDPH Standard Method emissions criteria.

2. Comply with South Coast Air Quality Management District (SCAQMD) Rule 1168, effective February 7, 2017.

3. Methylene chloride and perchloroethylene may not be intentionally added.

4. Embodied Carbon - Concrete Mix Design
   a. Provide a Type III Product Specific of Facility Specific Environmental Product Declaration (EPD) that documents compliance with the following:
      1) Embodied Carbon Limit:
         (a) 3001-4000 psi - 290kgCO2e per cubic yard or 380 kgCO2e per cubic meter

(b) 4001-5000 psi - 320 kgCO2e per cubic yard or 419 kgCO2e per cubic meter
2) System Boundary: Product Stage A1-A3.
3) Declared Unit: Produced cubic yard or cubic meter.
4) Product Category Rules: ISO 21930:2017.

Item #04 Section 042113 – MASONRY VENEER
Add. #02 **ADD:** 1.3.E in its entirety to read the following.
E. Sustainable Design Submittals

1. Embodied Carbon Submittals:
   a. Life-cycle assessment conforming to ISO 14044; Industry Average, Product -specific Type III EPD Internally Reviewed or Facility Specific.
      1) Environmental Product Declarations for brick veneer.

ADD: 2.1 in its entirety to read the following and renumber subsequent paragraphs.
2.1 DESIGN REQUIREMENTS

A. Embodied Carbon - Brick Veneer

1. Provide a Type III Industry Average, Product-Specific or Facility Specific Environmental Product Declaration (EPD) that documents compliance with the following:
   a. Embodied Carbon Limit: 503 kg CO2e.
   b. System Boundary Product Stage: A1-A3.
   c. Declared Unit: Produced cubic meter.
   d. Category PCR: ASTM Product Category Rule for Clay Brick, Clay Brick Pavers and Structural Clay tile.

Item #05 Section 051200 STRUCTURAL STEEL FRAMING
Add. #02 **ADD**: 1.3.H in its entirety to read the following and renumber subsequent paragraphs.
H. Sustainable Design Submittals

1. Embodied Carbon Submittals:
   a. Life-cycle assessment conforming to ISO 14044; Industry Average, Product -specific Type III EPD Internally Reviewed or Facility Specific.
      1) Environmental Product Declarations for steel.

2. Sourcing of Raw Materials - Recycled Content Submittals:
   a. Indicate recycled content of structural steel; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.

ADD: 2.1 in its entirety to read the following and renumber subsequent paragraphs.
2.1 DESIGN REQUIREMENTS

A. Embodied Carbon – Steel

1. Provide a Type III Industry Average, Product-Specific or Facility Specific Environmental Product Declaration (EPD) that documents compliance with the following:
   a. Embodied Carbon Limit:
      1) Hot Rolled Shapes - 1220 kgCO2e
      2) Hollow Structural Sections - 2390 kgCO2e
      3) Steel Plate - 1730 kgCO2e
   b. System Boundary Product Stage: A1-A3.
   c. Declared Unit: Fabricated Metric Ton.
   d. Product Category Rules: PCR Guidance for Version 3.2. UL Environment. Sept. 2018 PCR Guidance for Building-Related Products and Services. Part B: Designated Steel Construction Product EPD Requirements. UL Environment. August 2020.

2. Responsible Sourcing of Raw materials - Structural Steel
   a. Recycled content: Minimum 16% post-consumer recycled content.

Item #06 Section 061000ROUGH CARPENTRY
Add. #02 **ADD:** 1.4.C in its entirety to read the following.
C. Sustainable Design Submittals

1. Environmental Product Declarations:
   a. Life-cycle assessment conforming to ISO 14044; Product -specific Type III EPD Internally Reviewed and Industry-wide Type III EPD Products with 3rd party certification or EPD which conforms to ISO 14025 and EN 15804 or ISO 21930.
   b. Environmental Product Declarations for softwood lumber and North American Softwood plywood.

2. Documentation certifying composite wood products meet formaldehyde emissions evaluation.

REMOVE: 1.5.B in its entirety to read the following and renumber subsequent paragraphs.
B. Source wood products from sustainability managed forest programs certified under the Forest Stewardship Council, under the Sustainable Forestry Initiative, or certified under the American Tree Farm System.

ADD: 2.1.B, C, D and E in its entirety to read the following and renumber subsequent paragraphs.
B. When using composite wood, provide materials that are NAF (No Added Formaldehyde) or ULEF (Ultra Low Emitting Formaldehyde).

C. Embodied Carbon - Softwood Dimension Lumber

1. Provide a Type III Product-Specific Environmental Product Declaration (EPD) that documents compliance with the following:
    a. Embodied Carbon Limit: 63 kg CO_2e
    b. System Boundary Product Stage: A1-A3. (minimum)
    c. Declared Unit: 1 m^3 of softwood lumber produced in North America (US and CA)
    Product Category Rules:
    1) ISO 21930:2017 Sustainability in Building Construction - Environmental Declaration of Building Products.
    2) UL Environment: Product Category Rules for Building-Related Products and Services Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report, V3.2. Part B: Structural and Architectural Wood Products EPD Requirements, v1.0.

D. Virgin Limber: Lumber fabricated firm old growth timber is on permitted. Provide sustainability harvested: certified or labeled in accordance with FSC guidelines.

E. Embodied Carbon - North American Softwood Plywood

1. Provide a Type III Product-Specific Environmental Product Declaration (EPD) that documents compliance with the following:
    a. Embodied Carbon Limit: 219.32 kg CO_2e
    b. System Boundary Product Stage: A1-A3. (minimum)
    c. Declared Unit: 1 m^3 of softwood plywood produced in North America (US and CA)
    d. Product Category Rules:
        1) ISO 21930:2017 Sustainability in Building Construction - Environmental Declaration of Building Products.
        2) UL Environment: Product Category Rules for Building-Related Products and Services Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report, V3.2. Part B: Structural and Architectural Wood Products EPD Requirements, v1.0.

<u>Item #07</u> <u>Section 095123 ACOUSTICAL TILE CEILINGS</u>
Add. #02 **ADD:** Section 095123 in its entirety, attached.

<u>Item #08</u> <u>Section 096500 RESILIENT FLOORING</u>
Add. #02 **ADD:** Section 0965000 in its entirety, attached.

<u>Item #09</u> <u>Approval of Substitutions</u>
Add. #02 The following is a list of approved manufacturers which may be substituted for those specified in the specifications.

This approval is an approval of quality only. No attempt has been made to check each material as to special features, capacities or physical dimensions especially required by this project. It shall be the responsibility of the supplier, manufacturer and contractor to check all requirements before submitting for final approval. Final approval of exact features, sizes, capacities, etc., all of which must match materials indicated/specified, will be determined when submitted during construction period. Certain approvals are subject to conditions as noted.

Section	Product/Manufacturer	Comments
233700	Nailor Ind. Grilles, Registers, Diffusers	
238153	Daikin AC model DGB-060 Packaged Rooftop Unit	

DRAWING ITEMS

ARCHITECTURAL

Item #A01 A101A – MARK MORRIS – AA-BUILDING – DEMO/FLOOR PLANS
Add. #02 **REVISE:** Sheet A101A to include architect stamp per attached sheet A101A.
ADD: the following to Plan Keynote #2: "PAINT GWB AND INSTALL RUBBER BASE AS REQURED. REPLACE TILE FROM INSIDE CORNER TO INSIDE CORNER WHERE REQUIRED TO BE REPLACED. AT DEMOLISHED UNIT VENTILATOR LOCATIONS, INSTALL RESILIENT FLOORING AND TRANSITION STRIP."

Item #A02 A101B – MARK MORRIS – VOCATIONAL BUILDING – DEMO PLAN
Add. #02 **REVISE:** Sheet A101B to include architect stamp per attached sheet A101B.

Item #A03 A102A – MARK MORRIS – AA BUILDING – DEMO/ROOF PLANS
Add. #02 **REVISE:** Sheet A102A to include architect stamp per attached sheet A102A.

Item #A04 A102B – MARK MORRIS – VOCATIONAL BUILDING – DEMO/ROOF PLANS
Add. #02 **REVISE:** Sheet A102B to include architect stamp per attached sheet A102B.

Item #A05 A121A – MARK MORRIS – AA BUILDING – REFLECTED CEILING PLAN
Add. #02 **REVISE:** Sheet A121A to include architect stamp per attached sheet A121A.
ADD: the following to Plan Keynote #2: "PAINT GYPSUM BOARD CEILING."

Item #A06 A121B – MARK MORRIS – VOCATIONAL BUILDING – REFLECTED CEILING PLAN
Add. #02 **REVISE:** Sheet A121B to include architect stamp per attached sheet A121B.

Item #A07 A121C – COLUMBIA VALLEY GARDENS – REFLECTED CEILING PLAN
Add. #02 **REVISE:** Sheet A121C to include architect stamp per attached sheet A121C.

ELECTRICAL

Item #E01 E3.4 AA BUILDING ELECTRICAL PLANS
Add. #02 **REVISE:** Sheet E3.4 as per attached sheet E3.4.

Contractor Questions:

1. For Mark Morris for bid alternate #3, drawing M3.3 detail 8 calls for unit heaters to have a control valve. Per the M2.5 the vocational building is getting 12 Unit Heaters, groups of 4 unit heaters serving 3 areas. Would it be appropriate to provide a zone control valve instead of individual control valves to these 3 spaces?
   Three zone control valves instead of twelve individual control valves are acceptable for bid alternate #3.

Attachments:

Project Manual
Section 095123 – Acoustical Tile Ceilings
Section 096500 – Resilient Flooring

Drawings
A101A
A101B
A102A
A102B
A121A
A121B
A121C
E3.4

END OF ADDENDUM #02

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Suspended metal exposed grid ceiling systems.

2. Lay-in Acoustical Tiles.

3. Accessories.

B. Related Sections:

1. Divisions 21, 22 and 23 - Mechanical Sections: Coordinate supports and panel penetrations for HVAC, and fire suppression system penetrations.

2. Divisions 26, 27 and 28 - Electrical Sections: Coordinate supports and panels penetrations for electrical fixtures and equipment.

1.2 REFERENCES

A. American Society of Civil Engineers:

1. ASCE 7 - Minimum Design Loads for Building and Other Structures.

B. American Society for Testing and Materials:

1. ASTM C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

2. ASTM C636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.

3. ASTM E580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.

4. ASTM E1264 - Standard Classification for Acoustical Ceiling Products.

5. ASTM E1477 - Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.

C. Ceilings and Interior Systems Construction Association:

1. CISCA - Acoustical Ceilings: Use and Practice.

D. International Code Council:

1. ICC Section 803 - Test Specimens.

1.3 SUBMITTALS

A. Section 013300 - Submittal Procedures.

B. Product Data: Submit data on metal grid system components and acoustic units.

C. Samples: Submit one full size sample illustrating material and finish of acoustic units.

D. Manufacturer's Installation Instructions: Submit special procedures, perimeter conditions requiring special attention.

E. Section 017000 - Execution and Closeout Requirements: Manual for Materials and Finishes.

1.4 QUALITY ASSURANCE

A. Single Source: Obtain each type of acoustical ceiling tile and suspension system from a single manufacturer for each product required.

B. Code Compliance Standards:

1. ICC International Building Code, Edition 2016; Section 803.

2. American Society for Testing and Materials (ASTM):

a. ASTM C635 -Manufacturing of Metal Suspension Systems.

b. ASTM C636 - Installation of Metal Suspension Systems in Non-Seismic Applications.

3. American Society of Civil Engineers (ASCE): Std 7, “Minimum Design Loads for Buildings and Other Structures.

C. Qualifications:

1. Manufacturer: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

2. Installer: Company specializing in performing work of this section with minimum five years documented experience approved by manufacturer.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Section 016000 - Product Requirements.

B. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during and after acoustic unit installation.

1.6 SEQUENCING

A. Section 011000 - Summary of Work: Requirements for sequencing.

B. Install acoustical tile after interior wet work is dry.

1.7 EXTRA MATERIALS

A. Section 017700 - Closeout Requirements: Spare parts and maintenance products.

B. Furnish minimum 5%, in full cartons, of each type, size and color installed. Deliver to Owner, packaged for storage at project closeout.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Basis fo Design: Armstrong Ceiling and Wall Solutions.

1. Local contact: Donald Agnelli

a. C: 206-305-0905

b. E: dagnelli@armstrongceilings.com | www.armstrongceilings.com

B. USG - Ceilings.

1. Local contact: Carolyn H. Forbes.

a. C: 206-518-3006.

b. E: CForbes@usg.com.

C. Certainteed Architectural.

1. Local contact: Eli J. Griffin.

a. 425-215-3556

b. E: eli.j.griffin@saint-gobain.com

D. Substitutions under provisions of Section 012500.

2.2 ACOUSTICAL LAY-IN TILE

A. Basis fo Design: Armstrong School Zone Fine Fissured/Georgian, Square Lay-In Tile, Item # 1714 or approved equal meeting the following:

1. Material: Wet-formed mineral fiber.

2. Type: III, Form: 2; Pattern: C E.

3. Color and Size: To be selected and approved by Architect.

4. Thickness: 3/4 inch thick.

5. Edges: Square for 15/16 inch wide suspension system.

6. NRC: 0.70 per ASTM E1264.

7. CAC: Minimum 35 (continuous ceiling) per ASTM E1264.

8. Light Reflection: 0.82 minimum per ASTM E1477.

9. Flame Spread Index: 25 or less when tested per ASTM E84.

10. Fire Classification: Class A when tested per ASTM E1264.

11. Finish: Manufacturer's standard latex paint.

2.3 SUSPENSION SYSTEMS

A. Seismic Design Categories (SDC): Support systems shall comply with ASCE 7, SDC's D, E and F, ASTM C636, and meet CISCA guidelines for areas subject to severe risk.

1. Load Limits Per CISCA: Loads include actual average weight of grid, panels. Light fixtures and air terminals.

B. "Type 2" Heavy-Duty Exposed Grid Suspension System with'Tee' suspension system with aluminum cap, double web suspension system with 15/16 inch wide bottom flange; suspension system shall have "heavy-duty" structural classification per ASTM C635 and in compliance with ASCE 7. For Kitchen/Serveries/Food prep provide USDA/FSIS corrosion-resistant steel.

1. Cross tees shall be of same web height as main runners. Provide cross tees with off-set ends for a flush fit with main runners.

2. Factory punch main runners to accept cross tees at the indicated module.

3. Exposed members fabricated from commercial grade cold rolled steel. Provide suspension system complete with accessory items indicated or required for a complete installation.

4. Design and construct main runners and cross tees and their splices and intersection connectors to carry a mean ultimate test load of not less than 180 pounds or twice the actual load, whichever is greater, in tension and in compression with a 5-degree misalignment of the members in any direction. Provide mechanical interlocking connections at splices and intersections.

5. Provide manufacturer's standard hot-dipped galvanized or electro-galvanized finish; exposed bottom flange shall have manufacturer's standard low gloss baked-on enamel finish.

6. Color, Typical: Match USG Interiors "#50 Flat White,".

7. Standard Edge Moldings and Trim: Comply with SDC, above.

2.4 MISCELLANEOUS MATERIALS

A. Hanger Wires: Minimum 12 gage wire for 4-foot spacing and 10-gage wire for 5-foot spacing, carbon steel, galvanized, soft annealed, with Class 1 coating.

B. Tie Wire: Not less than 16 gage galvanized, soft annealed mild steel wire.

C. Fasteners: ICC approved; type and size to meet specified load requirements.

D. Retention/Hold down clips: Concealed attachment to grid assembly to prevent panel displacement (installed within 10 feet of exterior doors).

E. Seismic Clips: As required by applicable code for seismic design category.

1. Basis of Design:

a. USG ACM7 Seismic Clip OR Armstrong BERC2 -Used with 7/8 inch wall molding.

b. USG 4-Way Seismic Expansion Joint Clip or Armstrong SJCG- Seismic Joint Clip. The clip is compatible with 15/16 and 9/ 16 inch grid systems.

F. Filler Panels: Field cut to size and match specified product.

G. Moldings: Armstrong extruded aluminum for mounting to suspension system as indicated.

1. Angle Molding: Armstrong Model as required and approved by Architect.

2. Channel Molding: Armstrong Model as required and approved by Architect.

3. Finish: Match suspension system.

H. Open Edge Trim: As detailed

1. Basis of Design: USG Compasso Elite, Armstrong Axiom Transitions Assembly or approved equal.

2. Finish: To match suspension system.

3. Height necessary for transition from acoustical ceiling to drywall suspension system (4”, 6”, 8” or 10”).

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 013000 - Administrative Requirements: Coordination and project conditions.

B. Verify layout of hangers will not interfere with other work.

3.2 INSTALLATION

A. Lay-In Grid Suspension System:

1. Install suspension system in accordance with ASTM E580 and ASTM C636 and as supplemented in this section.

2. Install system capable of supporting imposed loads to deflection of 1/360 maximum.

3. Locate system on room axis according to reflected ceiling plan.

4. Install after major above ceiling work is complete. Coordinate location of hangers with other work.

5. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

6. Where ducts or other equipment prevent regular spacing of hangers, reinforce nearest affected hangers and related carrying channels to span extra distance.

7. Do not support components on main runners or cross runners when weight causes total dead load to exceed deflection capability. Support fixture loads by supplementary hangers located within 6 inches of each corner; or support components independently.

8. Do not eccentrically load system or produce rotation of runners.

9. Perimeter Molding:

a. Install edge molding at intersection of ceiling and vertical surfaces into bed of acoustic sealant.

b. Use longest practical lengths.

c. Miter and rivet corners.

d. Install at junctions with other interruptions.

10. Form expansion joints as detailed. Form to accommodate plus or minus 1 inch movement. Maintain visual closure.

B. Seismic Restraint: Install seismic restraint as specified herein, and as shown on detail. Ceiling areas of 144 square feet or less surrounded by walls which connect directly to the structure do not require seismic bracing. Comply with special inspection requirements of ICC Evaluation Report.

1. Where substantiating design calculations are not provided, the minimum horizontal restraint shall be affected by four #12 gage wires secured to main runner with four tight twists in 1½ inches and within 2 inches of cross tees intersection and splayed 90 degrees from each other at an angle not exceeding 45 degrees from plane of ceiling. Wires must be taut. Install fasteners for securing hanger wires to structure in accordance with manufacturer's recommendations.

2. Install vertical struts to main runners and extend to structure above as indicated and required by applicable codes. If electrical conduit is used, slot lower portion to fit over ceiling runner; upper conduit section shall lap lower section a minimum of 4 inches; secure lap portion with two screws. Install vertical struts as ceiling height partitions, spaced not to exceed 8 feet on center.

3. Place horizontal restraint points not to exceed 12 feet on center in both directions with first point within 6 feet from each wall.

4. Independently support terminal ends of each cross tee and main runner a maximum of 8 inches from each wall with #12 gage hanger wires.

5. Attach main runners and cross tees to perimeter members at two adjacent walls with ½ inch clearance between wall and main runners and cross tees maintained at other two walls; attach runners to perimeter members with 1/8 inch blind rivets.

6. At the perimeter of the ceiling area where main or cross runners are not attached, provide interconnection between runners and tees at free end using metal strut to prevent lateral spreading. Where the perpendicular distance from the wall to the first parallel runner is 12 inches or less, this interlock is not required.

C. Lay-In Acoustical Tile:

1. Install per manufacturer's written recommendations.

2. Fit acoustical tile in place, free from damaged edges or other defects detrimental to appearance and function.

3. Lay directional patterned units in basket weave pattern. Fit border trim neatly against abutting surfaces.

4. Install units after above ceiling work is complete.

5. Install acoustical tiles level, in uniform plane, and free from twist, warp, and dents.

6. Cutting Acoustic Units:

   a. Cut to fit irregular grid and perimeter edge trim.

   b. Cut square reveal edges to field cut units.

   c. Double cut and field paint exposed edges of tegular units.

7. Where round obstructions occur, install preformed closures to match perimeter molding.

3.3 ERECTION TOLERANCES

A. Installation Tolerances: Not to exceed the following:

1. Main Runners: Level within 1/8 in 12 feet.

2. Main Runner to Cross Runner Deviation: maximum 1/16 inch of the required center distance.

3. Deviation Between Main Runner End Splices:

a. Vertical: maximum 1/16 inch.

b. Horizontal: maximum 1/16 inch.

4. Visually Apparent Angular Displacement of Longitudinal Axis of One Runner to Another: None.

5. Gaps Between Assembly Devices in Grid: maximum 1/16 inch.

END OF SECTION 095123

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Rubber base.

2. Resilient Flooring Tile.

3. Transition strips.

1.2 REFERENCES

A. American Society for Testing and Materials:

1. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

2. ASTM F970 - Standard Test Method for Measuring Recovery Properties for Floor Coverings after Static Loading.

3. ASTM F1861 - Standard Specification for Resilient Wall Base.

4. ASTM F1869 - Standard Test Method for Measuring Vapor Emission Rate of concrete Subfloor Using Anhydrous Calcium Chloride.

5. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes.

6. ASTM F2195 - Standard Specification for Linoleum Floor Tile.

B. National Fire Protection Association:

1. NFPA 253 - Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.

C. Environmental Protection Agency:

1. 40 CFR 59, Subpart D (EPA Method 24) National Volatile Organic Compound Emission Standards for Architectural Coatings.

1.3 SUBMITTALS

A. Section 013300 - Submittal Procedures.

B. Product Data: Submit data describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Samples:

1. Submit one sample, 12 x 12 inch in size illustrating color and pattern for each resilient flooring product specified.

D. Section 017700 - Closeout Procedures.

E. Manual for Materials and Finishes: Submit suggested schedule for cleaning and maintaining.

1.4 QUALITY ASSURANCE

A. Single Source: Obtain each type of product required, including adhesives and accessories from one manufacturer throughout the Project.

B. Fire Resistance of Floor Coverings: Comply with IBC, Section 804 Interior Floor Finish; determined in accordance with NFPA 253 "Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Heat Source."

C. Indoor Air Quality: Comply with 40 CFR 59, Subpart D (EPA Method 24) requirements for adhesives as indicated.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Section 016000 - Product Requirements.

B. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during and after resilient flooring installation.

1.6 EXTRA MATERIALS

A. After completion of work, deliver to project site at a location designated by the Owner's Representative, replacement materials from same manufactured lot as materials installed. Package extra materials in manufacturer's original unopened cartons with each carton clearly labeled. Provide the following quantities:

1. Tile: Furnish 1% or fraction thereof of each color, pattern and size of tile installed.

2. Base: Furnish 1% or fraction thereof of each color and size of base installed.

1.7 WARRANTY

A. Provide manufacturer's standard warranty.

PART 2 PRODUCTS

2.1 RESILIENT FLOORING TILE

A. Acceptable Manufacturers

1. Basis of Design: Shaw Floors:

a. Contact: Randi Filion.

b. E: randi.filtion@shawcontract.com

c. 5059-590-7769.

2. Substitutions under provisions of Section 012500.

3. Color and Pattern: To be secected and approved by Architect.

B. Basis if Desing: Shaw Contract Terrail II 12 Mil, Light Commercial Luxury Vinyl Tile, Class III, Type B.

1. Color and Pattern: To be secected and approved by Architect.

2. Nominal Dimensions6 in wdie x 48 in long.

3. Wear Layer Thickness12 mil (0.012 in).

4. Overall Thickness0.098 in.

5. Edge ProfileSquared Edge.

6. Installation TypeDry Back.

7. InstallationDirect Glue.

8. Recomended Adhesives: S150-95, LOKWORX+ RESILI, LokWorx Resilient or 4151.

2.2 RUBBER BASE

A. Acceptable Manufacturers:

1. Basis of Design: Roppe, http://roppe.com.

2. Forbo, https://www.forbo.com

3. Burke, http://www.burkeflooring.com.

4. Flexco, http://www.flexcofloors.com.

5. Substitutions: Under provisions of Section 012500.

B. Construction: Extruded rubber base meeting requirements of ASTM F1861, Type TS (thermoset vulcanized extruded rubber); 1/8-inch thick; 4 inches high, uno; coil stock factory and corner units; top set cove style.

1. At casework, match height installed on adjacent wall. Provide taller base if needed or where shown or drawings.

2. Premolded external corners.

3. Color: To be selected and approved by Architect.

2.3 INSTALLATION MATERIALS

A. Interior transitions/thresholds between dissimilar flooring materials: Resilient Trim, Shaw, Terrain II Universal Transitions and Trims or approved equal.

1. Size and Shape: As required for floor material heights.

2. Center under door or as indicated.

3. Adhesive: Manufacturer’s recommendation.

4. Color: To be selected and approved by Architect.

B. Primers: Non-staining type as recommended by manufacturer.

C. Moisture Tolerant Adhesives: Water resistant types as otherwise recommended by the manufacturer for the conditions of the installation; adhesives shall be low-odor and meet VOC’s requirements; in all cases, adhesives shall not exhibit any long lasting noxious off-gassing. Provide white colored adhesives for all areas.

1. Maximum VOC: 150 g/L.

D. Underlayments (Forming Transitions and Patching Compounds): Recommended by flooring manufacturer.

E. Welding Rod: Solid vinyl strand as manufactured by flooring manufacturer for heat-welding seams; color to match field color of sheet vinyl flooring.

F. Other Materials: Provide incidental and accessory materials, tools for testing and installation required for completion of resilient floor installation.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are smooth and flat with maximum variation of 1/8 inch in 10 feet and are ready to receive Work.

B. Beginning of installation means acceptance of existing substrate and site conditions.

C. Sample test concrete for proper adhesive bond.

3.2 PREPARATION

A. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

B. Prohibit traffic until filler is cured.

C. Clean substrate.

D. Apply primer as required to prevent "bleed-thru" or interference with adhesion by substances which cannot be removed.

3.3 INSTALLATION - SHEET FLOORING

A. Install all products to manufacturer's written recommendation.

B. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns carefully at seams.

C. Double cut sheet; provide heat welded seams.

D. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.

E. Install transition strips at unprotected or exposed edges, where flooring terminates, and where indicated. Secure transition strips by adhesive. Include transitions from carpet and ceramic tile.

F. Integral Base: Where indicated, install integral cove base using support cove filler at intersection of floor and wall; extend resilient sheet flooring up vertical surfaces 6 inches, unless otherwise shown on Room Finish Schedule. Cover top edge with cove cap; install top edge straight and level. Bond seams in integral base with tight joints in same manner as floor.

G. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.4 INSTALLATION - TILE FLOORING

A. Install all products to manufacturer's written recommendation.

B. Mix tile from container to ensure shade variations are consistent when tile is placed.

C. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

D. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated. Secure metal strips before installation of flooring with stainless steel screws.

F. Install flooring in recessed floor access covers. Maintain floor pattern.

3.5 INSTALLATION - BASE

A. Install all products to manufacturer’s written recommendation.

B. Fit joints tightly and make vertical. Install in longest possible lengths. Miter internal corners. At external corners gouge back of base including two stress relief gouges at the bottom of the base in accordance with manufacturer’s instructions. Install external corners so base toe has a continuous flow/shape around the corner.

C. Install base on solid backing. Bond tightly to wall surface. At returns 1 foot or shorter, apply continuous pressure until adhesive is fully cured.

D. Scribe and fit to door frames and other interruptions.

3.6 CLEANING

A. Section 017700 - Closeout Procedures: Final cleaning.

B. Remove excess adhesive from floor, base, and wall surfaces without damage.

C. Comply with manufacturer's initial cleaning requirements.

D. Clean and maintain resilient flooring products until substantial completion.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

A. Section 017000 - Execution: Protecting installed construction.

B. Prohibit traffic on resilient flooring for 5 days hours after installation.

C. Provide approved protection and remove protection at substantial completion.

3.8 TRAINING

A. Provide owner training describing manufacturer's recommended floor care program.

END OF SECTION 096500

GENERAL DEMOLITION NOTES

1. DASHED LINES INDICATE EXTENT OF EXISTING ASSEMBLIES TO BE DEMOLISHED.
2. THE DEMOLITION DRAWINGS ARE INTENDED AS A GENERAL GUIDE AS TO THE SCOPE OF DEMOLITION REQUIRED. ADDITIONAL ITEMS THAT ARE NOT SPECIFICALLY IDENTIFIED AND THAT ARE LOGICALLY ASSOCIATED WITH ITEMS CALLED OUT AS BEING REMOVED SHOULD BE REMOVED AS WELL INCLUDING DEMOLITION IDENTIFIED ON ALL DISCIPLINES DRAWINGS. IF THERE IS A QUESTION CONTACT THE ARCHITECT FOR DIRECTION.
3. OWNER RETAINS THE FIRST RIGHT OF REFUSAL OF ALL DEMOLISHED ITEMS.
4. FOR ALL STRUCTURAL DEMOLITION WORK, REFER TO SPECIFIC DISCIPLINE DEMOLITION DRAWINGS.
5. PROTECT AND MAINTAIN EXISTING WALL ASSEMLBIES AND ASSOCIATED FINISHES, UNO
6. PROTECT EXISTING ELECTICAL ASSEMBLIES. ALL ELECTRICAL ASSEMBLIES (LIGHTS, ELECTRICAL, DATA, FIRE ALARM, SECURITY, ETC) ARE TO REMAIN IN FUNCTION DURING CONSTRUCTION. ANY ELECTRICAL ASSEMBLIES DAMAGED OR REMOVED ARE TO BE REINSTALLED OR REPLACED TO A LIKE NEW CONDITION.
7. PROTECT ALL OWNER INSTALLED STAGE EQUIPMENT. ANY OWNER INSTALLED STAGE EQUIPMENT DAMAGE OR REMOVED SHALL BE REINSTALLED OR REPLACE TO A LIKE NEW CONDITION.
8. PATCH AND REPAIR CEILING, FLOORS AND WALLS TO MATCH ADJACENT. ALIGN FINISHED ASSEMBLIES FOR SMOOTH TRANSITION BETWEEN NEW AND ADJACENT.
9. WHERE MECHANICAL DUCTS ARE ROUTED THROUGH EXISTING PARTITION WALLS, DEMO EXISTING GYPSUM WALL BOARD TO ALLOW FOR ROUTING. SEE STRUCTURAL DRAWING FOR POTENTIAL LOAD BEARING ELEMENTS, DO NOT MODIFY EXISTING FRAMING (INCLUDING STRUCTURAL WALL SHEATHING) WITHOUT APPROVAL FROM THE DESIGN TEAM.

DEMO PLAN KEYNOTES:

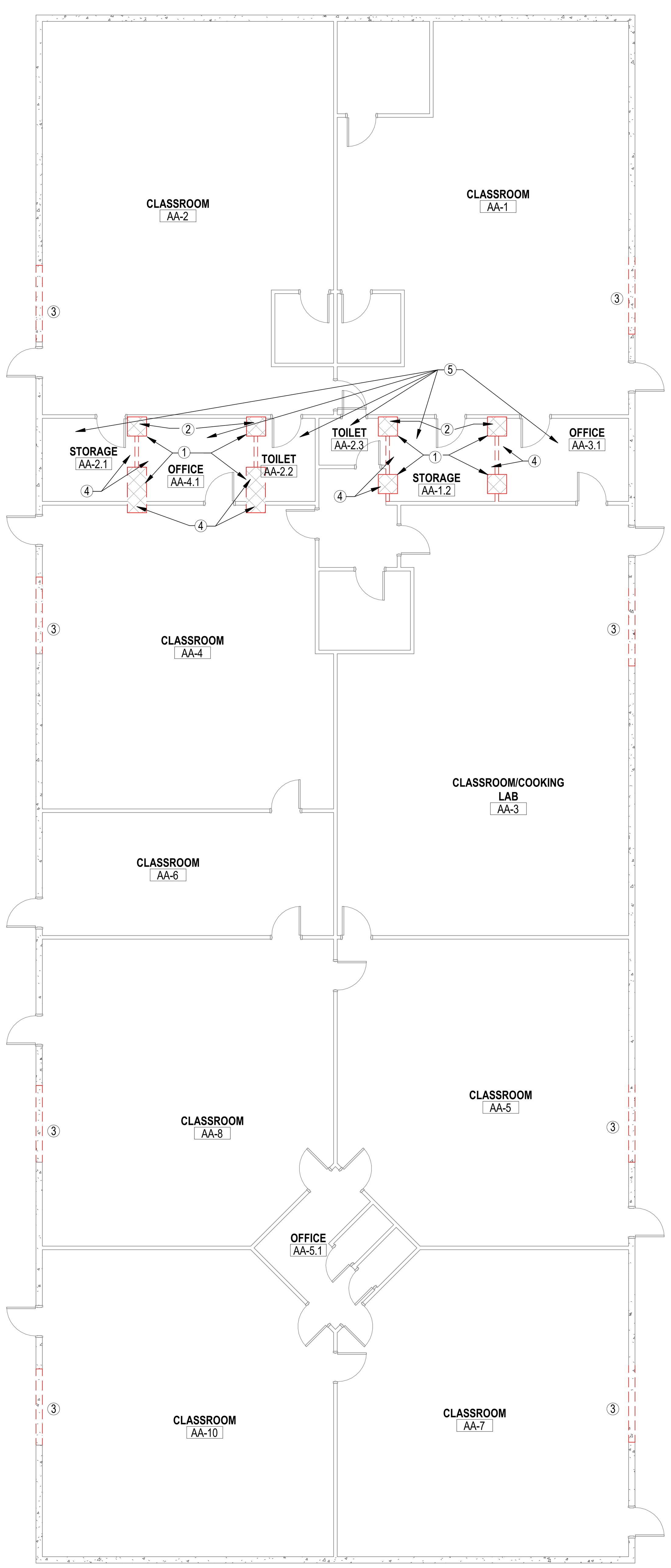
1. DEMOLISH FLOOR FINISHES AS REQUIRED TO SAWCUT AND INSTALL CONCRETE. SAWCUT CONCRETE AS REQUIRED.
2. DEMOLISH WALL FINISHES AND GWB AS REQUIRED TO INSTALL WOOD COLUMNS. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. DEMOLISH GWB AND WALL FINISHES AS REQUIRED FOR MECHANICAL DEMOLITION, SEE MECHANICAL DRAWINGS FOR ADDTIONAL INFORMATION
4. SALVAGE EXISTING CASEWORK/COUNTER/SHELVING AS REQUIRED TO COMPLETE STRUCTURAL SCOPE.
5. DEMOLISH GYPSUM WALL BOARD CEILING, SEE A121A FOR MORE INFORMATION.

PLAN KEYNOTES:

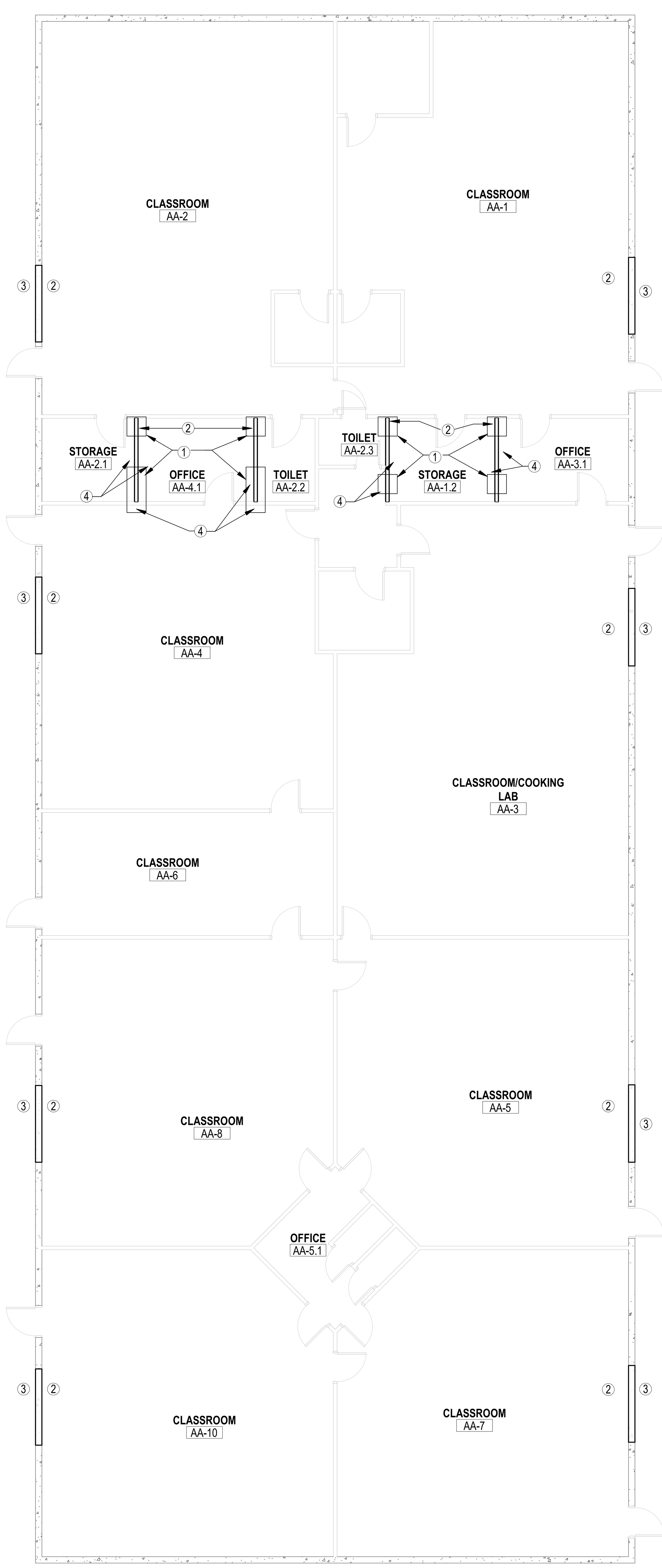
1. PATCH FLOOR FINISHES AS REQUIRED
2. REPLACE GWB AND PATCH WALL FINISHES AS REQUIRED
3. **BID ALTERNATE #2:** DEMOLISH (E) LOUVER, INFILL WITH BRICK VENEER TO MATCH EXISTING. TOOTH BRICKS INTO (E) BRICK ADJACENT TO OPENING
4. REINSTALL SALVAGED CASEWORK/COUNTER/SHELVING.

DEMOLITION LEGEND

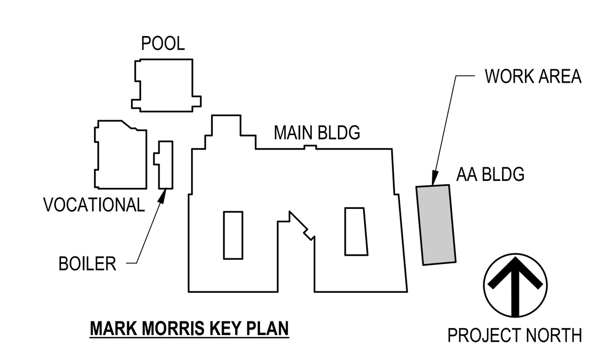
(red dashed lines)	ASSEMBLY TO BE DEMOLISHED.
(solid lines)	EXISTING ASSEMBLY TO REMAIN.
(hatched area)	CONCRETE FLOOR SLAB TO BE REMOVED IN ITS ENTIRETY. SAW CUT EDGES.



1 MARK MORRIS AA-BUILDING DEMO PLAN
SCALE: 1/8" = 1'-0"

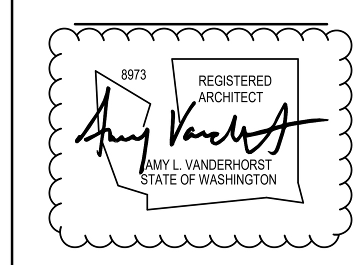


2 MARK MORRIS AA-BUILDING FLOOR PLAN
SCALE: 1/8" = 1'-0"



MARK MORRIS KEY PLAN

integrus ARCHITECTURE



LONGVIEW SCHOOL DISTRICT HEAT PUMP REPLACEMENT AND INDOOR AIR QUALITY IMPROVEMENTS

2715 LILAC STREET
LONGVIEW, WA 98632

Date:	01/17/23
Job No.:	22220.00
Drawn By:	Author
Checked by:	Checker

Revisions

#	Date	Description

MARK MORRIS - AA-BUILDING - DEMO/FLOOR PLANS

A101A

BID SET

GENERAL DEMOLITION NOTES

1. DASHED LINES INDICATE EXTENT OF EXISTING ASSEMBLIES TO BE DEMOLISHED.
2. THE DEMOLITION DRAWINGS ARE INTENDED AS A GENERAL GUIDE AS TO THE SCOPE OF DEMOLITION REQUIRED. ADDITIONAL ITEMS THAT ARE NOT SPECIFICALLY IDENTIFIED AND THAT ARE LOGICALLY ASSOCIATED WITH ITEMS CALLED OUT AS BEING REMOVED SHOULD BE REMOVED AS WELL INCLUDING DEMOLITION IDENTIFIED ON ALL DISCIPLINES DRAWINGS. IF THERE IS A QUESTION CONTACT THE ARCHITECT FOR DIRECTION.
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DEMO PLAN KEYNOTES:

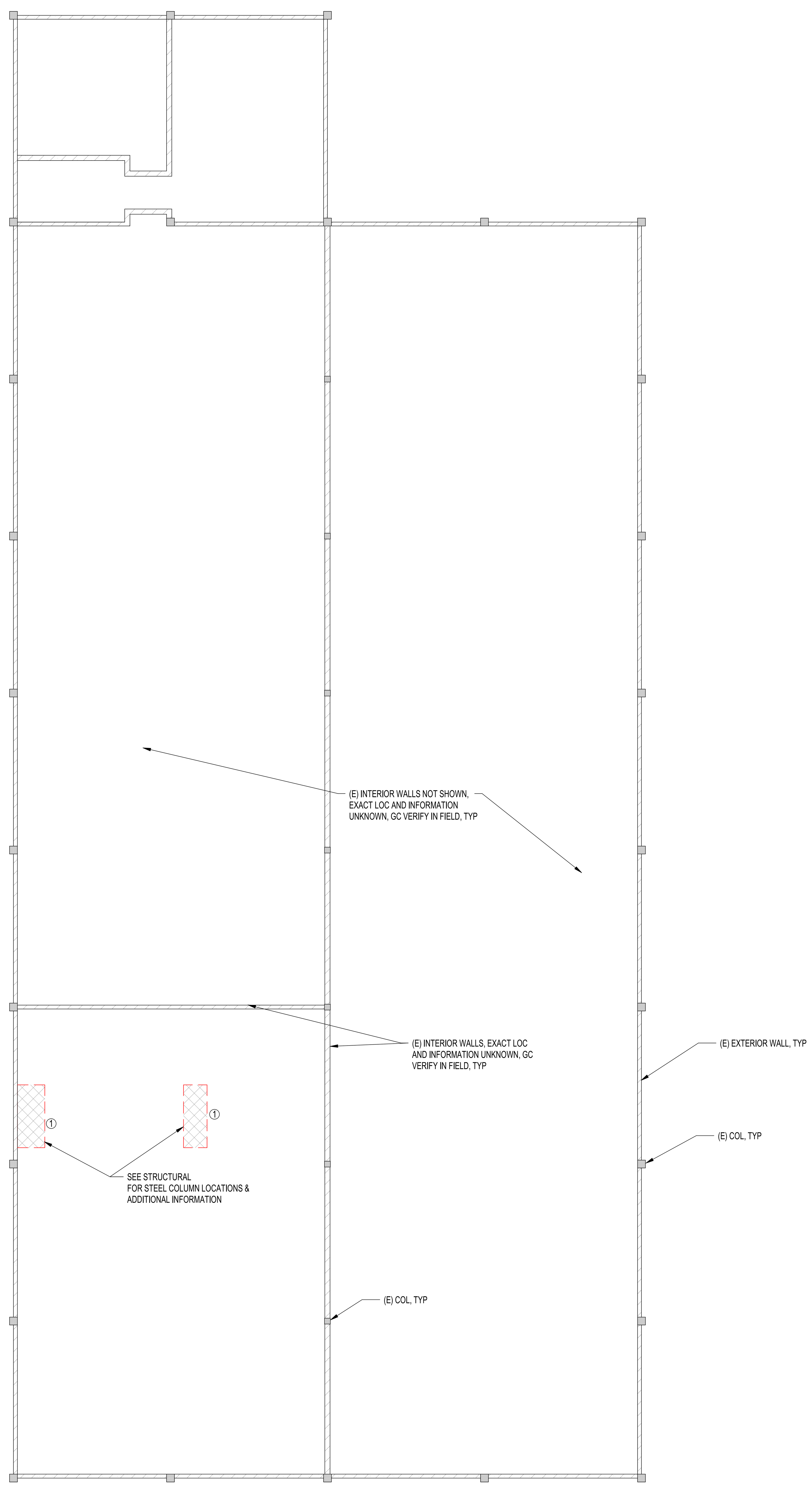
1. DEMOLISH FLOOR FINISHES AS REQUIRED TO SAWCUT AND INSTALL CONCRETE. SAWCUT CONCRETE AS REQUIRED. SEE STRUCTURAL FOR ADDITIONAL INFORMATION

DEMOLITION LEGEND

ASSEMBLY TO BE DEMOLISHED.

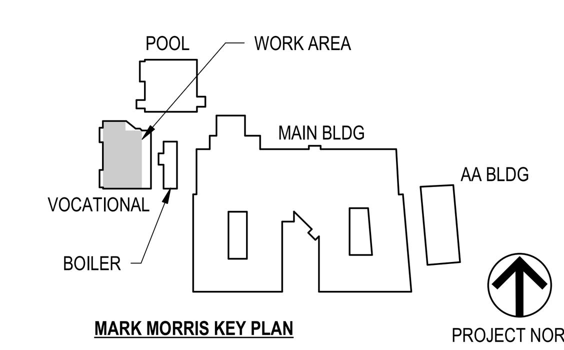
EXISTING ASSEMBLY TO REMAIN.

CONCRETE FLOOR SLAB TO BE REMOVED IN ITS ENTIRETY. SAW CUT EDGES.



1 MARK MORRIS - VOCATIONAL BUILDING - DEMO PLAN

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



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MARK MORRIS - VOCATIONAL BUILDING - DEMO PLAN

A101B

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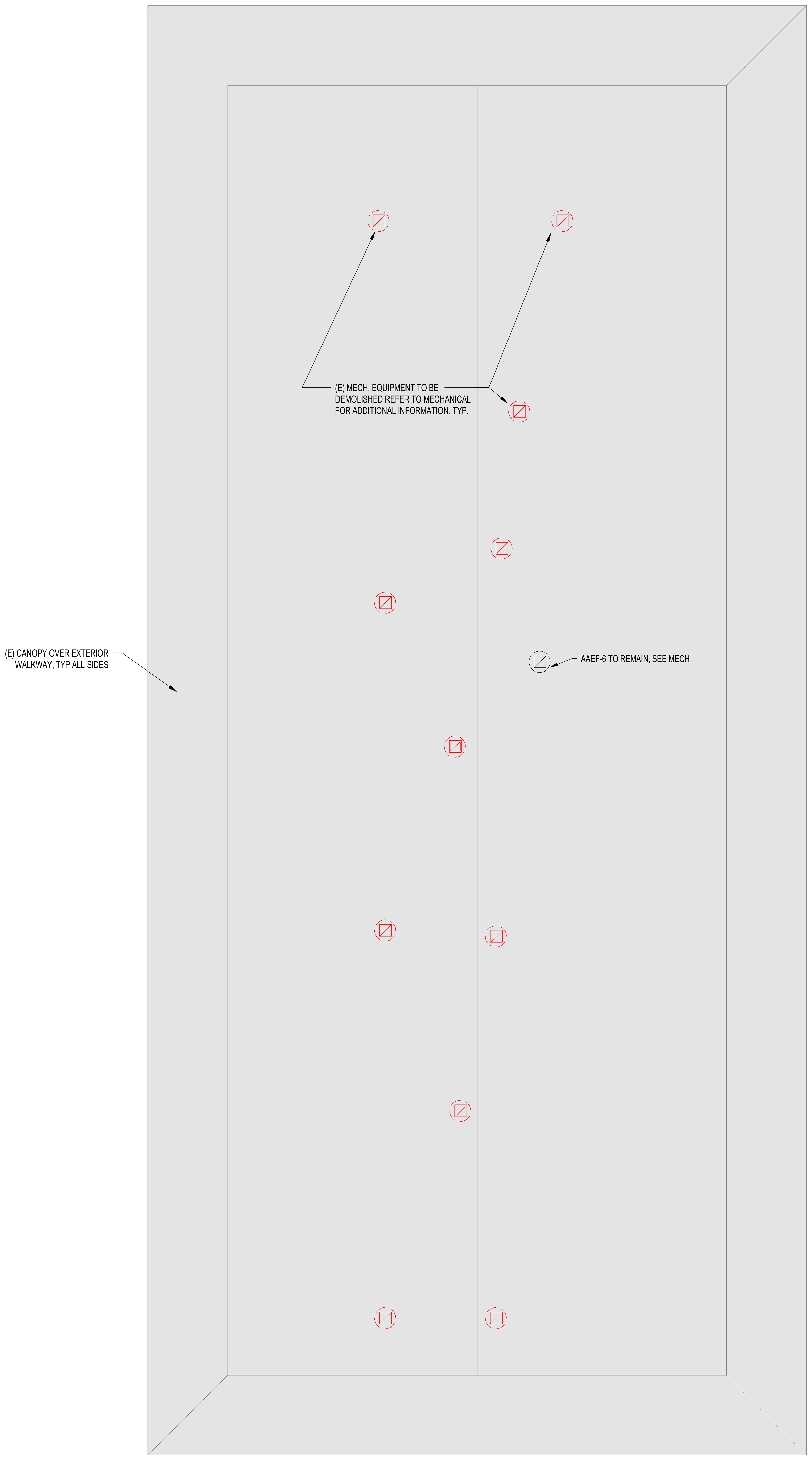

1 MARK MORRIS - AA-BUILDING - DEMO PLAN
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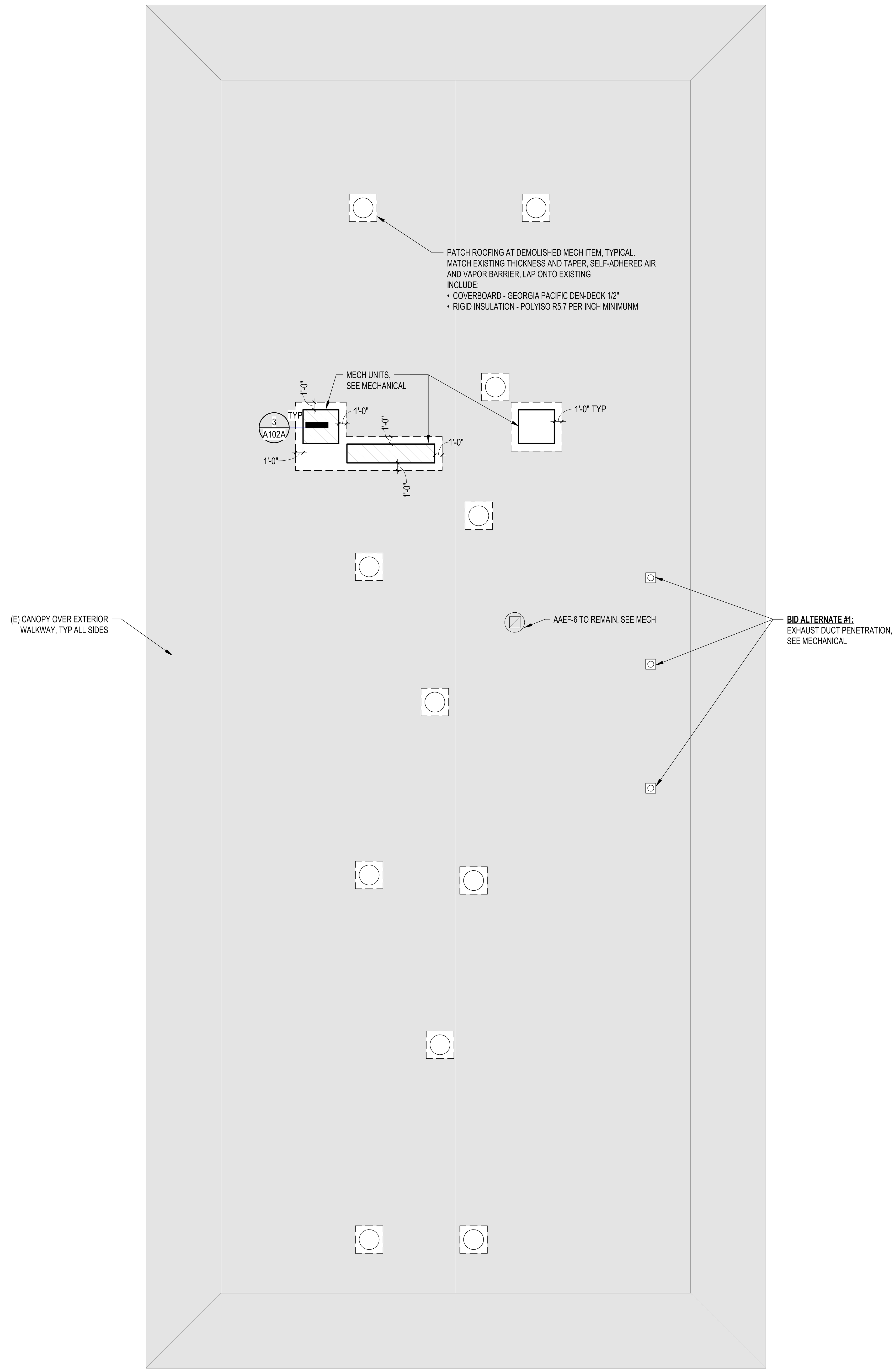


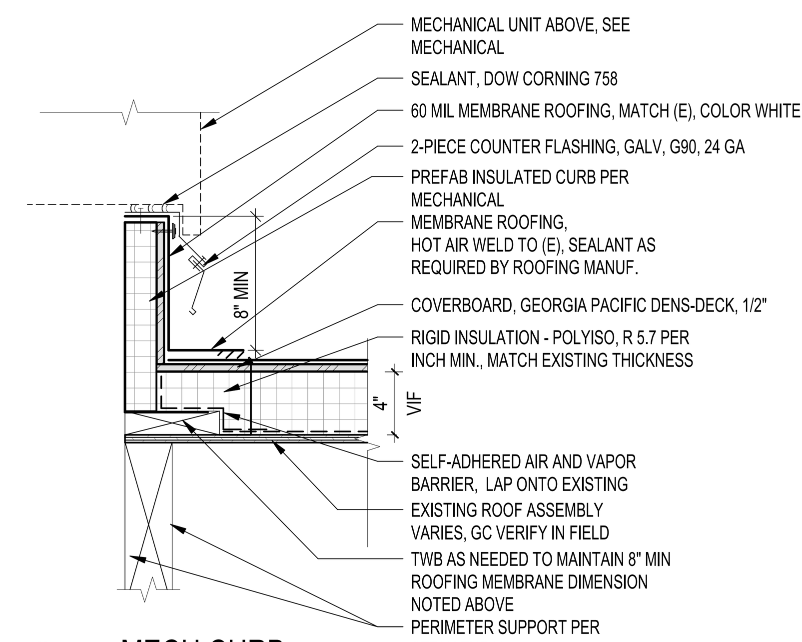
2 MARK MORRIS - AA-BUILDING - ROOF PLAN
SCALE: 1/8" = 1'-0"

ARCH ROOF NOTES

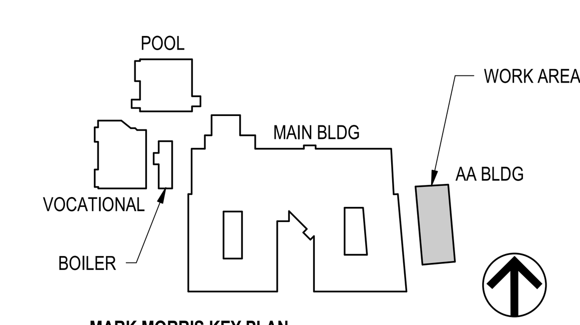
1. PATCH ALL OPENINGS OF EXISTING WALLS & EXISTING ROOF LEFT BY REMOVAL OF EXISTING ITEMS. PATCH AS TO MATCH FINISH OF ADJACENT UNDISTURBED AREA
2. REFER TO MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
3. IN ADDITION TO PENETRATIONS SHOWN ON ROOF PLAN, REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL LOCATIONS, TYPES, SIZES AND QUANTITIES, PROVIDE APPROPRIATE FLASHING REQUIRED.
4. PATCH ROOFING MEMBRANE PER MANUFACTURERS RECOMMENDATIONS. VERIFY COMPATIBILITY WITH EXISTING MEBRANE.

DEMOLITION LEGEND

ASSEMBLY TO BE DEMOLISHED.
EXISTING ASSEMBLY TO REMAIN.



3 MECH CURB
SCALE: 1 1/2" = 1'-0"



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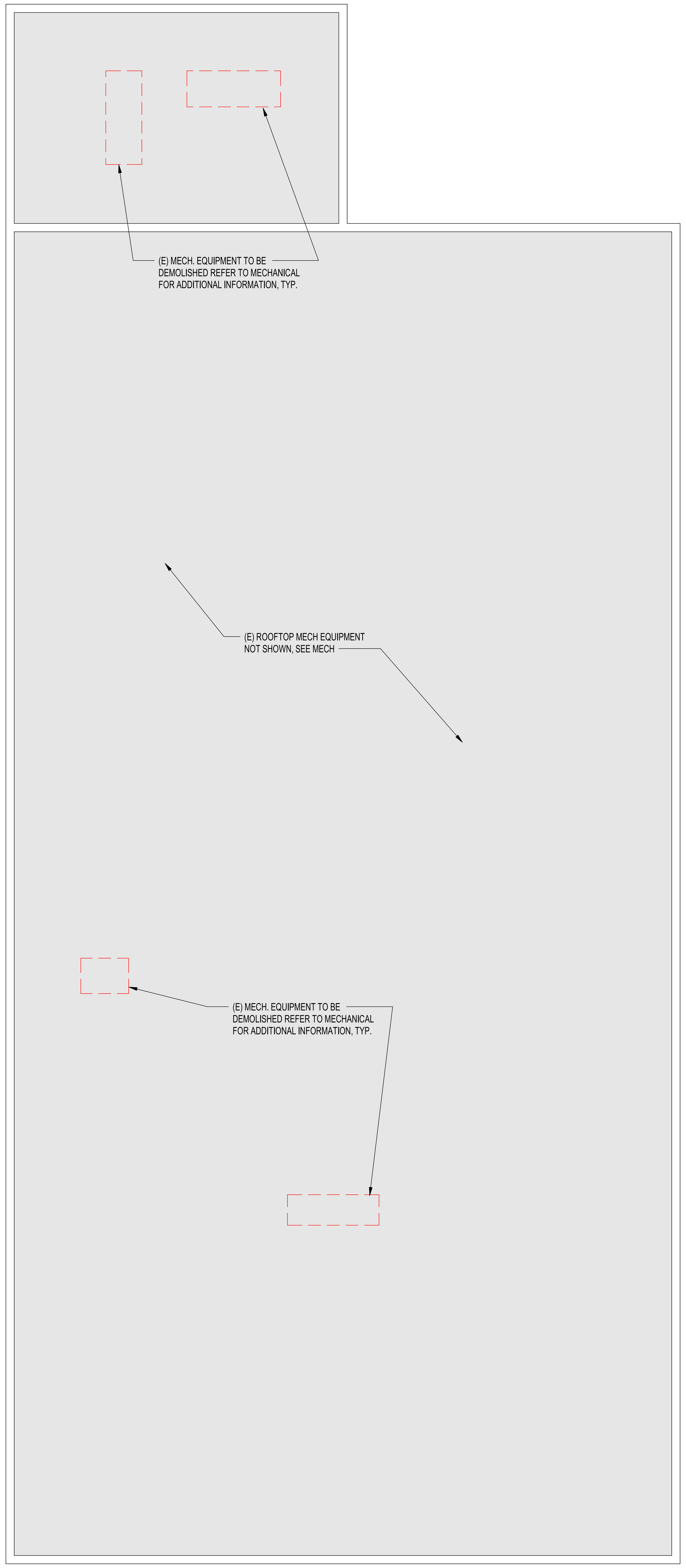
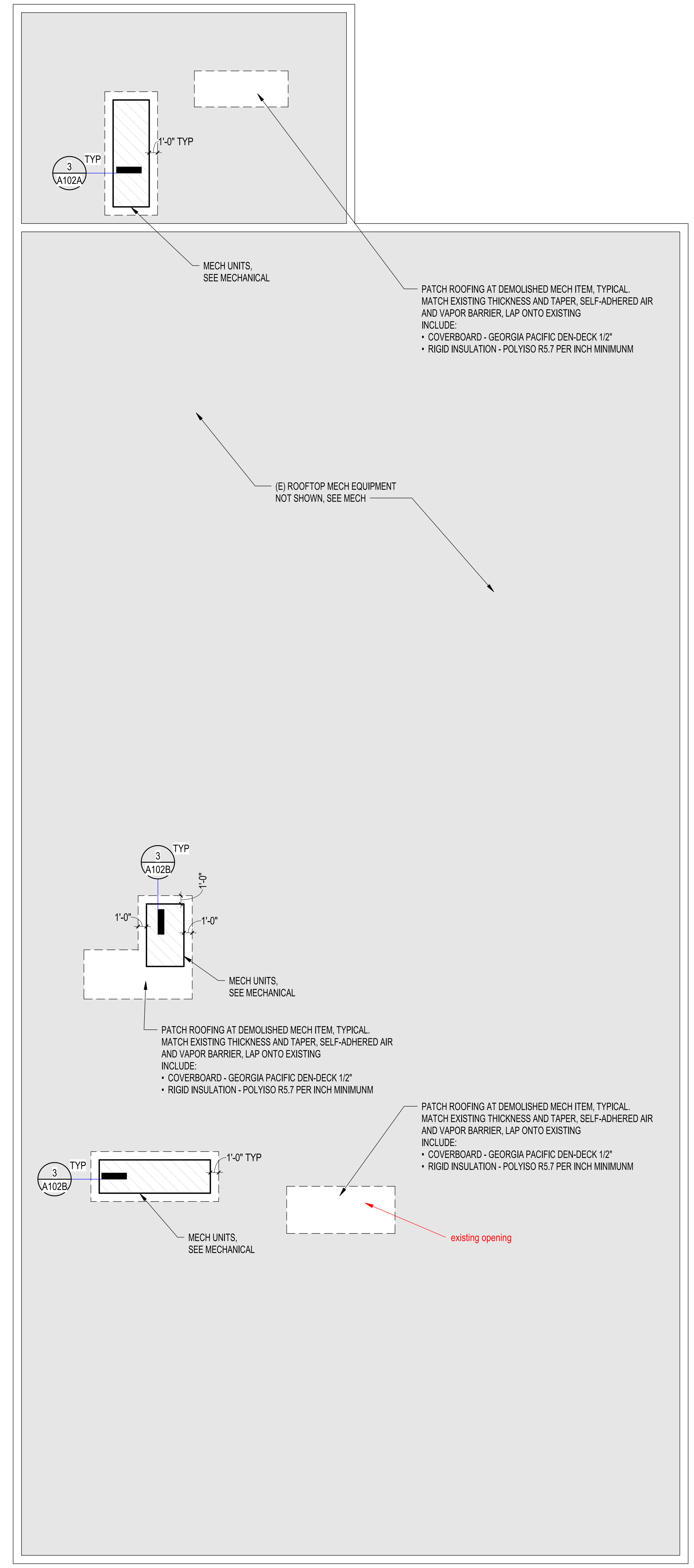
MARK MORRIS - AA-BUILDING - DEMO/ROOF PLANS

A102A

BID SET



1 MARK MORRIS - VOCATIONAL BUILDING - ROOF DEMO PLAN
SCALE: 1/8" = 1'-0"



2 MARK MORRIS - VOCATIONAL BUILDING - ROOF PLAN
SCALE: 1/8" = 1'-0"

ARCH ROOF NOTES

1. PATCH ALL OPENINGS OF EXISTING WALLS & EXISTING ROOF LEFT BY REMOVAL OF EXISTING ITEMS. PATCH AS TO MATCH FINISH OF ADJACENT UNDISTURBED AREA
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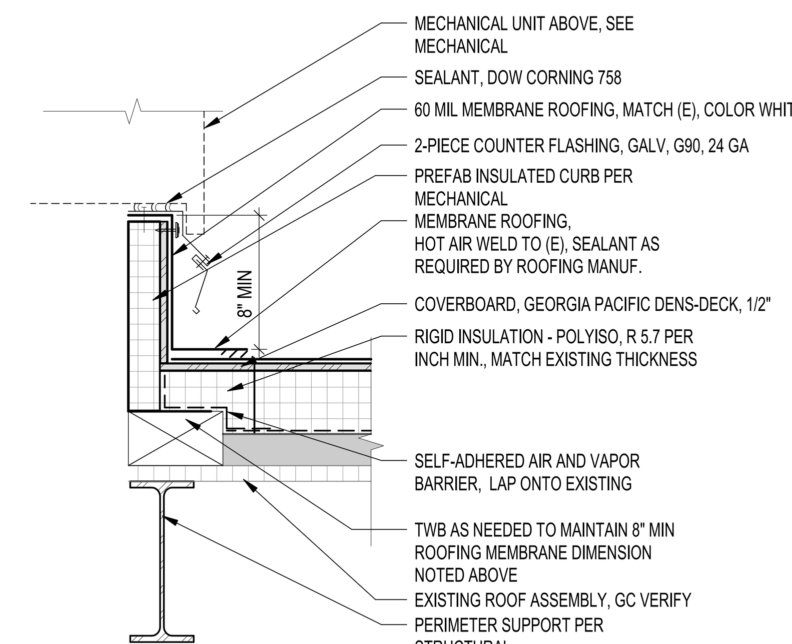
4. PATCH ROOFING MEMBRANE PER MANUFACTURERS RECOMMENDATIONS. VERIFY COMPATIBILITY WITH EXISTING MEBRANE.

DEMOLITION LEGEND

ASSEMBLY TO BE DEMOLISHED.

EXISTING ASSEMBLY TO REMAIN.



3 MECH CURB
SCALE: 1 1/2" = 1'-0"

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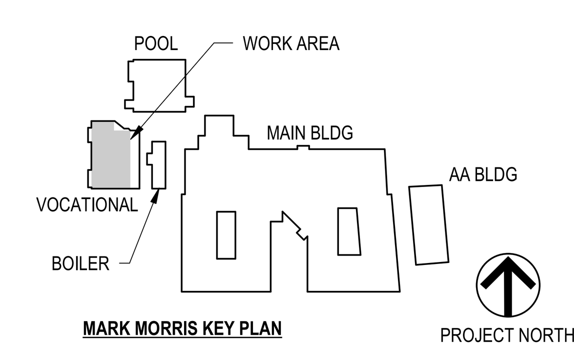
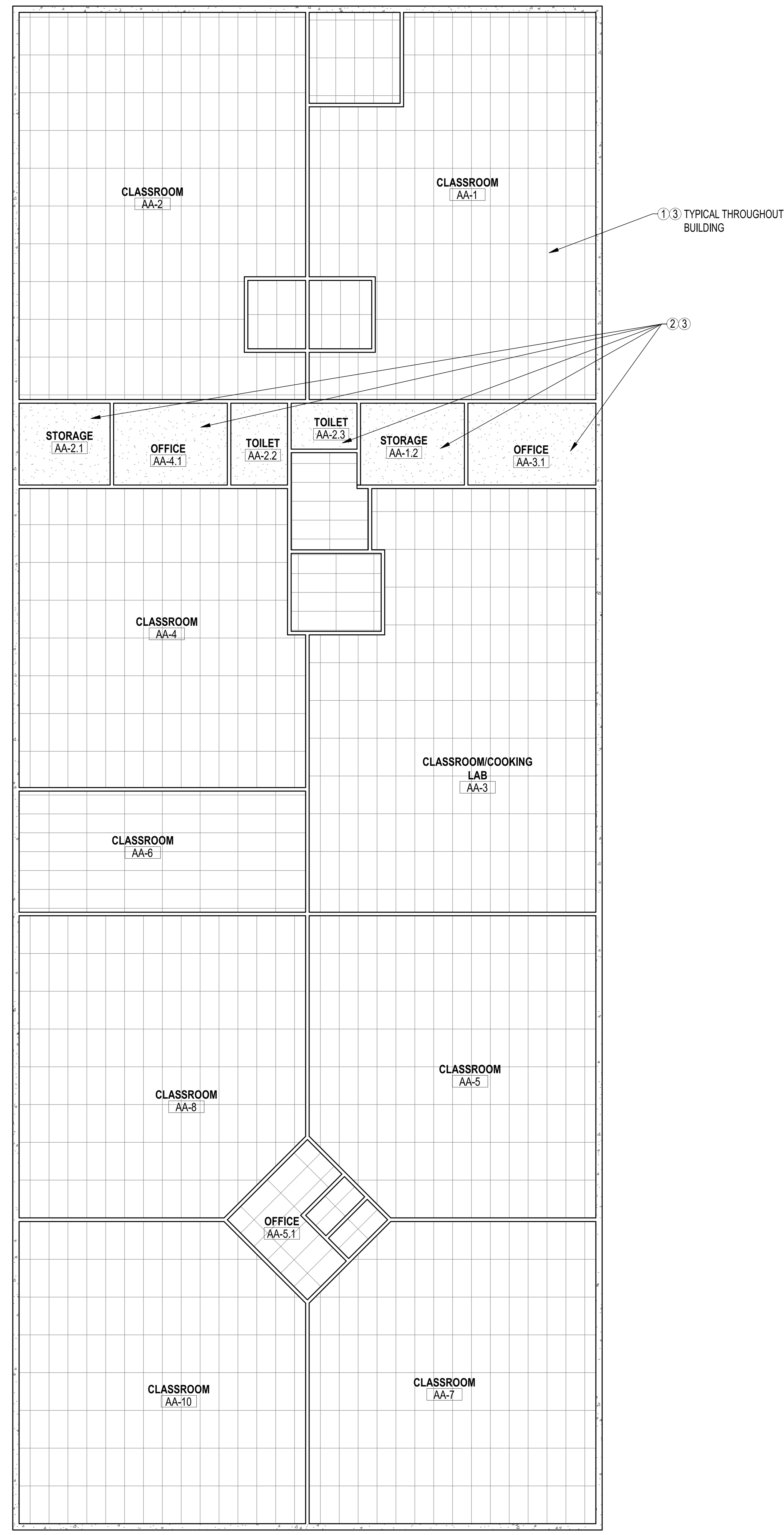


MARK MORRIS - VOCATIONAL BUILDING - DEMO/ROOF PLANS

A102B

BID SET



1 MARK MORRIS AA BUILDING - REFLECTED CEILING PLAN

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

REFLECTED CEILING PLAN KEYNOTES

1. REMOVE AND REINSTALL CEILING TILES AND CEILING GRID AS REQUIRED TO COMPLETE STRUCTURAL, MECHANICAL, AND ELECTRICAL SCOPES OF WORK. THIS ALSO INCLUDES THE DEMO SCOPES OF WORK. REPLACE ANY DAMAGED CEILING TILES, CEILING GRIDS, AND ITEMS RELATED TO THE CEILING SYSTEM.
2. DEMO EXISTING GYPSUM BOARD CEILING AND ASSOCIATED CEILING SUPPORTS AS REQUIRED TO COMPLETE STRUCTURAL, MECHANICAL, AND ELECTRICAL SCOPES OF WORK. THIS ALSO INCLUDES THE DEMO SCOPES OF WORK. INSTALL 5/8" GYPSUM BOARD CEILING w/ 2x4 @ 16" ON CENTER MAX CEILING FRAMING. MAX 2x4 SPAN = 10 FEET. 2x4 SHALL ONLY SUPPORT GWB AND CEILING MOUNTED LIGHTS. INSTALL FINISH FOR A SMOOTH TRANSITION TO THE ADJACENT EXISTING FINISH
3. PROTECT EXISTING ELECTRICAL ASSEMBLIES (LIGHTS, ELECTRICAL, DATA, FIRE ALARM, SECURITY, ETC). ANY ELECTRICAL DAMAGED OR REMOVED SHALL BE REINSTALLED OR REPLACED TO A LIKE NEW CONDITION.

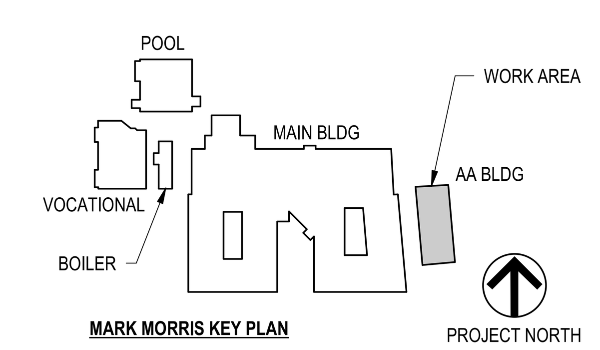
REFLECTED CEILING PLAN MATERIAL & FINISH LEGEND

EXISTING GYPSUM BOARD CEILING (GWB), GC VERIFY

EXISTING ACOUSTICAL CEILING TILE (ACT-1), GC VERIFY

OTA OPEN TO ABOVE

OTS OPEN TO STRUCTURE



MARK MORRIS KEY PLAN

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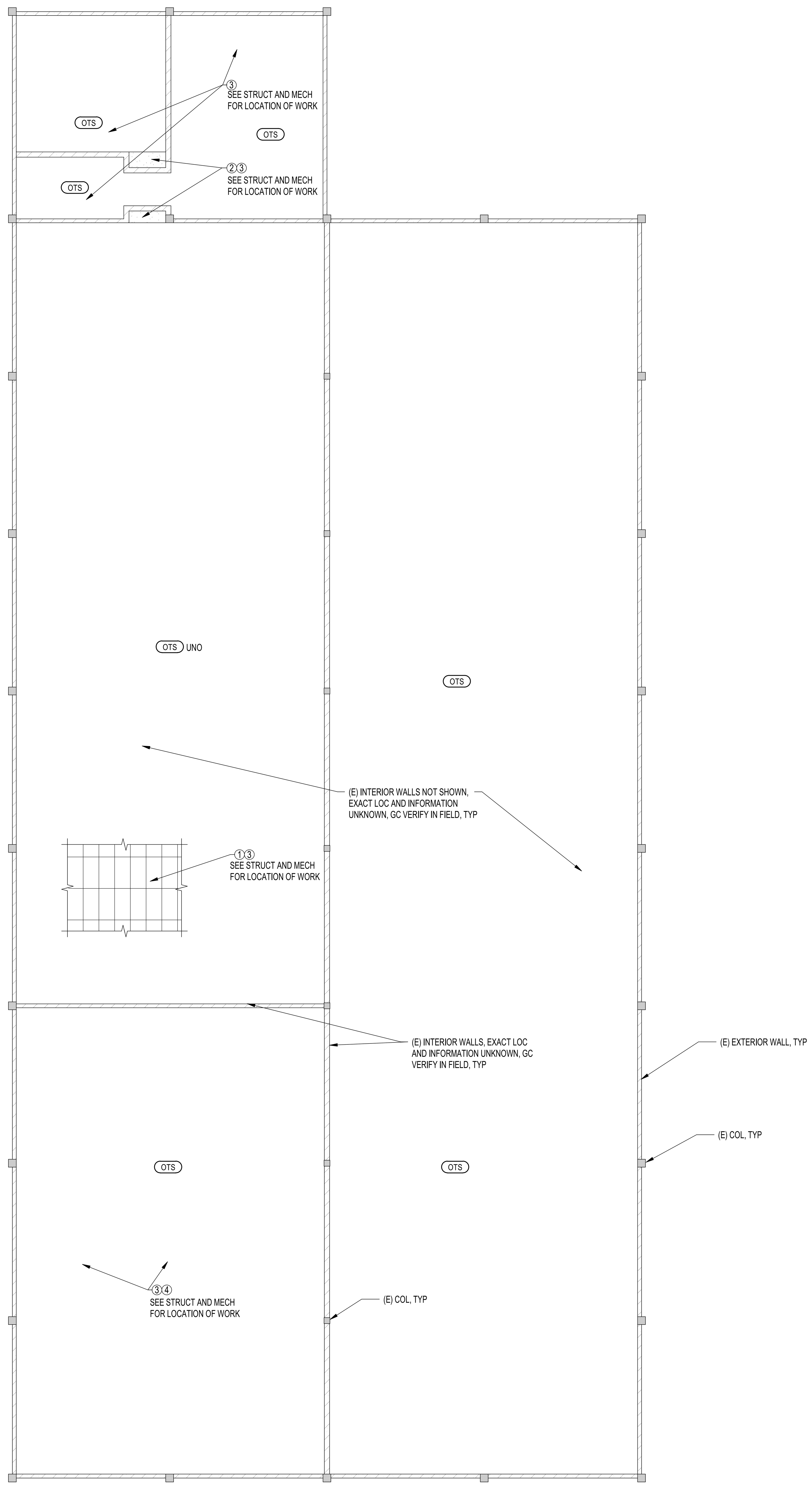
MARK MORRIS - AA BUILDING - REFLECTED CEILING PLAN

A121A

BID SET



1 MARK MORRIS - VOCATIONAL BUILDING - REFLECTIVE CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES

1. REMOVE AND REINSTALL CEILING TILES AND CEILING GRID AS REQUIRED TO COMPLETE STRUCTURAL, MECHANICAL, AND ELECTRICAL SCOPES OF WORK. THIS ALSO INCLUDES THE DEMO SCOPES OF WORK. REPLACE ANY DAMAGED CEILING TILES, CEILING GRIDS, AND ITEMS RELATED TO THE CEILING SYSTEM.
2. DEMO EXISTING GYPSUM BOARD CEILING AND ASSOCIATED CEILING SUPPORTS AS REQUIRED TO COMPLETE STRUCTURAL, MECHANICAL, AND ELECTRICAL SCOPES OF WORK. THIS ALSO INCLUDES THE DEMO SCOPES OF WORK. INSTALL 5/8" GYPSUM BOARD CEILING w/ 2x4 @ 16" ON CENTER MAX CEILING FRAMING. MAX 2x4 SPAN = 10 FEET. 2x4 SHALL ONLY SUPPORT GWB AND CEILING MOUNTED LIGHTS. INSTALL FINISH FOR A SMOOTH TRANSITION TO THE ADJACENT EXISTING FINISH
3. PROTECT EXISTING ELECTRICAL ASSEMBLIES (LIGHTS, ELECTRICAL, DATA, FIRE ALARM, SECURITY, ETC). ANY ELECTRICAL DAMAGED OR REMOVED SHALL BE REINSTALLED OR REPLACED TO A LIKE NEW CONDITION.
4. PAINT DUCTS AND HVAC EQUIPMENT TO MATCH EXISTING. PAINT ADDED STRUCTURAL STEEL SUPPORTS, INCLUDING COLUMNS.

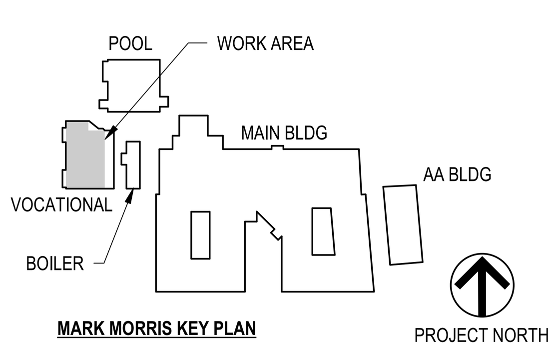
REFLECTED CEILING PLAN MATERIAL & FINISH LEGEND

EXISTING GYPSUM BOARD CEILING (GWB), GC VERIFY

EXISTING ACOUSTICAL CEILING TILE (ACT-1), GC VERIFY

OTA OPEN TO ABOVE

OTS OPEN TO STRUCTURE



MARK MORRIS KEY PLAN

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MARK MORRIS - VOCATIONAL BUILDING - REFLECTED CEILING PLAN

A121B

BID SET

REFLECTED CEILING PLAN KEYNOTES

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REFLECTED CEILING PLAN MATERIAL & FINISH LEGEND

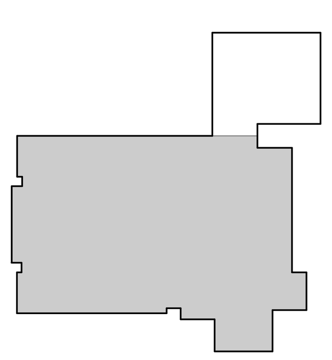
EXISTING GYPSUM BOARD CEILING (GWB), GC VERIFY

EXISTING ACOUSTICAL CEILING TILE (ACT-1), GC VERIFY

OTA OPEN TO ABOVE

OTS OPEN TO STRUCTURE

1 COLUMBIA VALLEY GARDENS - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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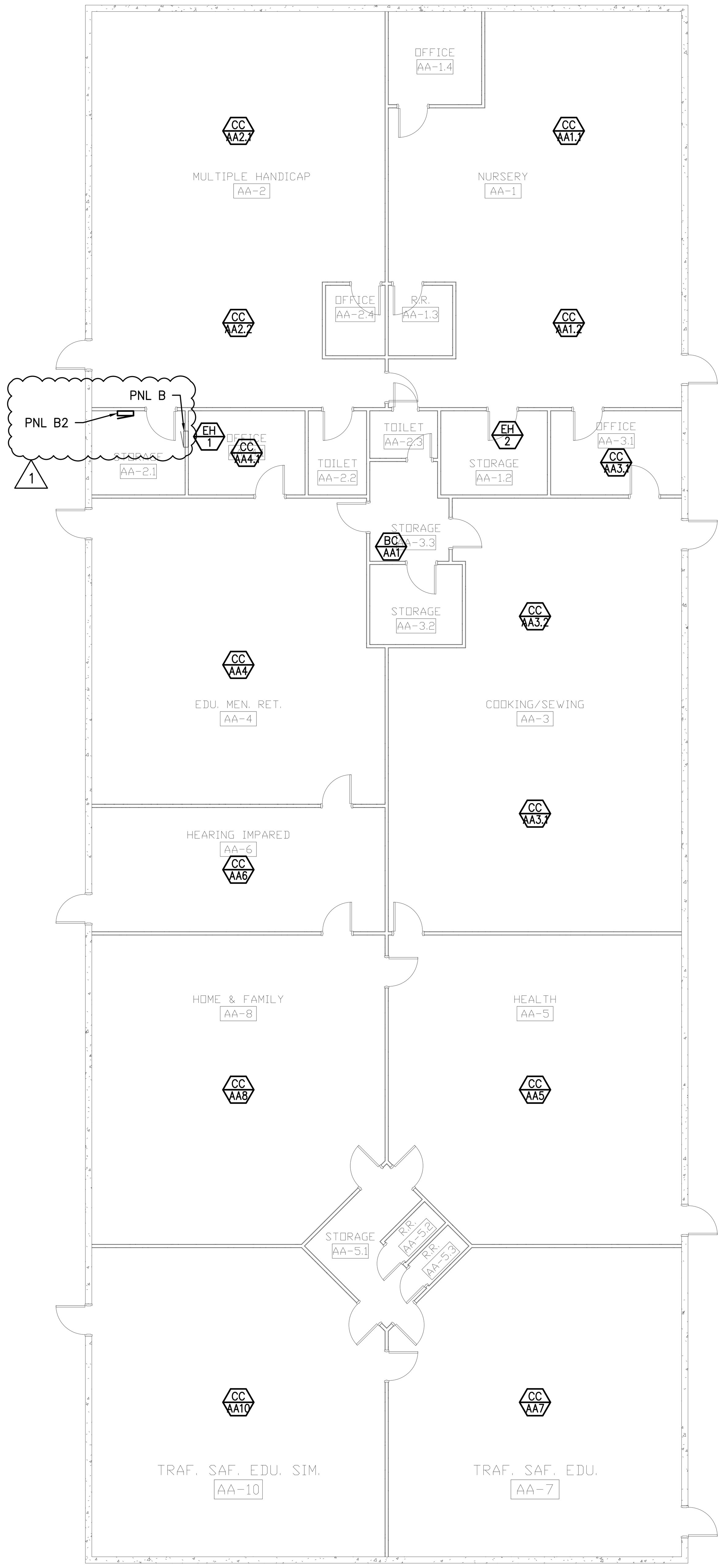
COLUMBIA VALLEY GARDENS - REFLECTED CEILING PLAN

A121C

BID SET

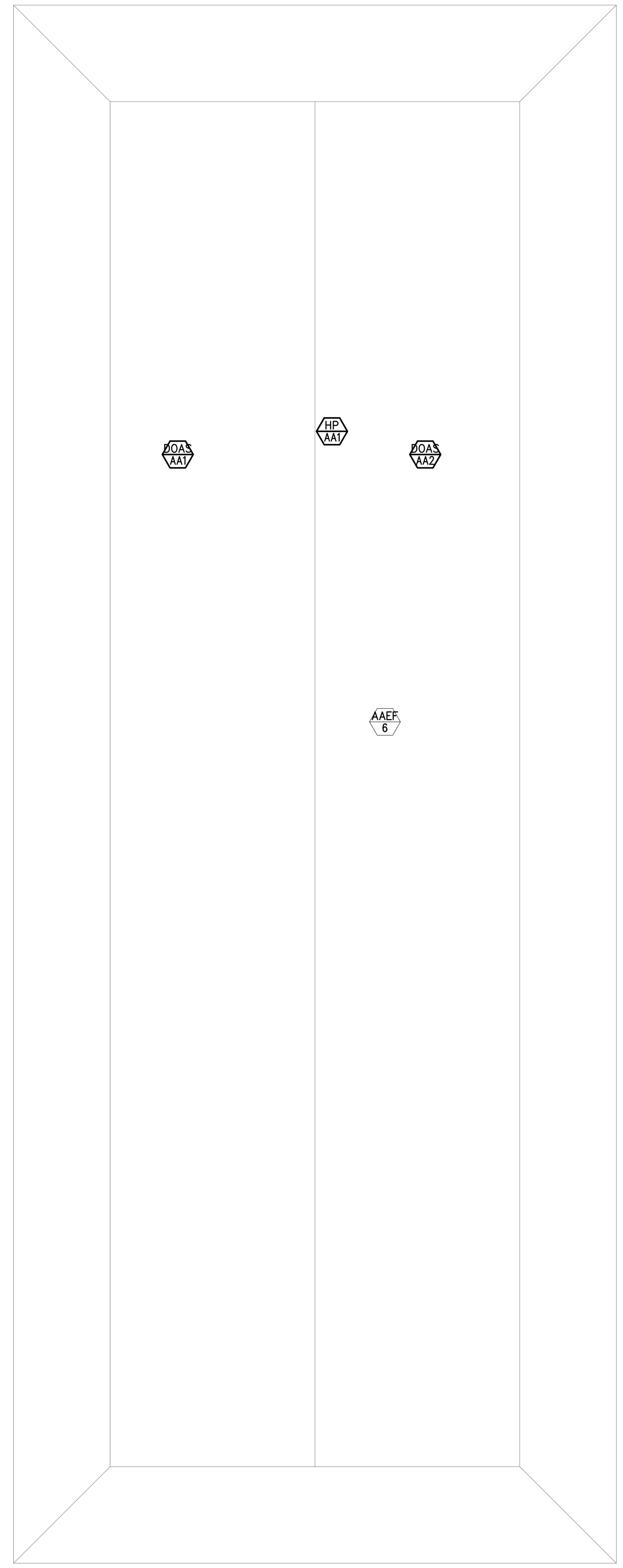
GENERAL NOTES:

1. XX



AA-BUILDING ELECTRICAL FLOOR PLAN

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



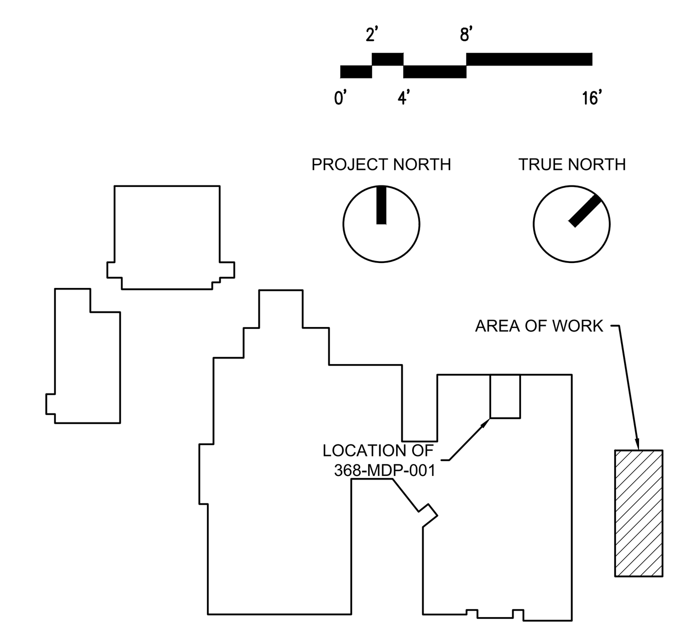
AA-BUILDING ELECTRICAL ROOF PLAN

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

PLAN NOTES:

1. PROVIDE NEW PANEL 'B2' TO SERVE NEW MECHANICAL EQUIPMENT. FED FROM 368-MDP-001. ROUTE FEEDERS TO BREEZEWAY AND CONCEAL IN OVERHEAD CHASE. PROPOSED LOCATION OF NEW 3-PHASE PANEL. CONFIRM SPACE HAS ACCEPTABLE CLEARANCES.

1



MARK MORRIS HS KEY PLAN

SCALE: NTS

BID SET

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LONGVIEW SCHOOL DISTRICT
HEAT PUMP REPLACEMENT AND INDOOR AIR QUALITY IMPROVEMENTS

Date:	1/17/2023
Job No.:	22220.00
Drawn By:	AD
Checked by:	PC

Revisions

#	Date	Description
1		ADD #2

AA-BUILDING
ELECTRICAL PLANS

E3.4