Music Department Upgrades- Ballard Hall & Coleman Library
Tougaloo College

Architect's Project No.: 2506

WFT Architects, P.A.
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ADDENDUM NO. 1:

Date of Addendum:
25 June 2026

This addendum forms a part of the Bid Documents and modifies the original Drawings and Project Manual dated 11 June 2026 and consists of the items described herein.

PROJECT MANUAL

Item No. 1 **Project Manual Index, Division 12 - Furnishings**
Change: Omit the line item for Section 122200 – Curtains and Drapes.

Item No. 2 **Section 004100 – Bid From**
Change: Replace the current Bid Form with the revised form included with this Addendum as Attachment 1.

Item No. 3 **Project Manual- Section 012300, Alternates; Paragraph 1.04, Schedule of Alternates:**
Change: Replace the current section with the revised section included in the addendum as Attachment 2, which adds the following to the list of sub-paragraphs:
Alternate No. 3 (ADD) – Ballard Hall: 1st Floor HVAC Units
Demolish the existing HVAC units and provide and install the new HVAC units identified as PACU-1 and PACU-2 in Drawings 1 and 3 on Sheet M1.1. Sheet . Include all related work associated with the demolition of the existing and installation of the new units as described in the Drawings and Project Manual and as required to complete the Work.

Item No. 4 **Project Manual- Division 2, Existing Conditions**
Add: Add Section 020800 – Removal and Disposal of Asbestos Materials, included with this addendum as Attachment 3.

Item No. 5 **Project Manual- Division 8, Openings**
Add: Add Section 087100 – Door Hardware, included with this addendum as Attachment 4.

Item No. 6 **Project Manual- Division 12, Furnishings**
Add: Add Section 122413 – Roller Window Shades, included with this addendum as Attachment 5.

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DRAWINGS

Item No. 7 **Sheet T1.0 – Title Sheet**
Change: Replace the current sheet T1.0 – Title Sheet with the revised sheet T1.0R – Title Sheet included with this addendum as Attachment 6.

Item No. 8 **Sheet A1.1 – Ballard Hall - Floor Plans**
Change: Replace the current sheet A1.1 – Ballard Hall - Floor Plans with the revised sheet A1.1R – Ballard Hall - Floor Plans included with this addendum as Attachment 7.

Item No. 9 **Sheet A1.2 – Ballard Hall - Exterior Elevations**
Change: Replace the current sheet A1.2 – Ballard Hall - Exterior Elevations with the revised sheet A1.2R – Ballard Hall - Exterior Elevations included with this addendum as Attachment 8.

Item No. 10 **Sheet A1.3 – Ballard Hall - Photographs**
Change: Replace the current sheet A1.3 – Ballard Hall - Photographs with the revised sheet A1.3 – Ballard Hall – Photographs included with this addendum as Attachment 9.

Item No. 11 **Sheet A2.2– Coleman Library – Remodel Plans**
Change: Replace the current sheet A2.2– Coleman Library – Remodel Plans with the revised sheet A2.2R– Coleman Library – Remodel Plans included with this addendum as Attachment 10.

Item No. 12 **Sheet A2.3– Coleman Library – Restroom Remodel**
Change: Replace the current sheet A2.3– Coleman Library – Restroom Remodel with the revised sheet A2.3R– Coleman Library – Restroom Remodel included with this addendum as Attachment 11.

Item No. 13 **Sheet A2.4– Coleman Library – Alternates #1, #2, & #3**
Change: Replace the current sheet A2.4 – Coleman Library – Alternates #1, #2, & #3 with the revised sheet A2.4R – Coleman Library – Alternates #1, #2, & #3 included with this addendum as Attachment 12.

Item No. 14 **Sheet A2.5– Coleman Library – Alternates #1, #2, & #3**
Change: Replace the current sheet A2.5 – Coleman Library – Alternates #1, #2, & #3 with the revised sheet A2.5R – Coleman Library – Alternates #1, #2, & # 3 included with this addendum as Attachment 13.

Item No. 15 **Sheet A5.2– Door Schedule & Details**
Change: Replace the current sheet A5.2 – Door Schedule & Details with the revised sheet A5.2R – Door Schedule & Details included with this addendum as Attachment 14.

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Item No. 16 **Sheet M1.1– Ballard Hall – HVAC Plans**
Change: Replace the current sheet M1.1– Ballard Hall – HVAC Plans with the revised sheet M1.1R– Ballard Hall – HVAC Plans included with this addendum as Attachment 15.

Item No. 17 **Sheet E0.2 – Panel Schedules**
Change: Replace the current sheet E0.2 – Panel Schedules with the revised sheet E0.2R – Panel Schedules included with this addendum as Attachment 16.

Item No. 18 **Sheet E1.1– Library – Lighting Plans**
Change: Replace the current sheet E1.1– Library – Lighting Plans with the revised sheet E1.1R – Library – Lighting Plans included with this addendum as Attachment 17.

Item No. 19 **Sheet E1.2– Library – Alternate Lighting Plans**
Change: Replace the current sheet E1.2– Library – Alternate Lighting Plans with the revised sheet E1.2R – Library – Alternate Lighting Plans included with this addendum as Attachment 18.

Item No. 20 **Sheet E2.0– Ballard Hall - Power Plans**
Change: Replace the current sheet E2.0– Ballard Hall - Power Plans with the revised sheet E2.0R – Ballard Hall - Power Plans included with this addendum as Attachment 19.

Item No. 21 **Sheet E3.0– Ballard Hall – 1st Flr Mechanical Power Plan**
Change: Replace the current sheet E3.0– Ballard Hall – 1st Flr Mechanical Power Plan with the revised sheet E3.0R – Ballard Hall – 1st Flr Mechanical Power Plan included with this addendum as Attachment 20.

END OF ADDENDUM NO. 1

SECTION 004100

BID FORM

TO: **Office of Facilities Management**
Attn: Erskine Brown, Assistant Vice President
Tougaloo College
500 West County Line Road
Tougaloo, MS 39174

FOR: **Music Department Upgrades – Ballard Hall & Coleman Library**
Architect's Project No. 2506

DATE: _____ (Bidder to enter date)

SUBMITTED BY: (Bidder to enter name and address)

Bidder's Full Name _____
(as recorded with MS State Board of Contractors)

Certificate of Responsibility (COR)# _____

Address _____

City, State, Zip _____

OFFER

1.01 **BASE BID.** Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by WFT Architects, P.A. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum stipulated in this bid form of:

All Work for the sum of _____

_____ dollars ($),
in lawful money of the United States of America.

1.02 **ALTERNATE NO. 1.** If I include the requirements of Specifications Section 012300 Alternates, Paragraph 1.04A, then to my Base Bid you may

ADD _____ dollars ($).

ADD _____ days

1.03 **ALTERNATE NO. 2.** If I include the requirements of Specifications Section 012300 Alternates, Paragraph 1.04A, then to my Base Bid you may

ADD _____ dollars ($ _____).

ADD _____ days

1.04 **ALTERNATE NO. 3.** If I include the requirements of Specifications Section 012300 Alternates, Paragraph 1.04A, then to my Base Bid you may

ADD _____ dollars ($ _____).

ADD _____ days

1.05 All applicable Federal taxes and State of Mississippi taxes are included in the Bid Sum.

1.06 All Cash and Contingency Allowances described in Section 012100 are included in the Base Bid Sum.

2.01 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.

B. If this bid is accepted by Tougaloo College within the time period stated above, we will:
   1. Execute the Agreement within seven days of receipt of Notice of Award.
   2. Furnish the required bonds within seven days of receipt of Notice of Award.
   3. Commence work within seven days after written Notice to Proceed of this bid.

C. Alternate prices shall be held for 30 days from date of Notice to Proceed for Owner selection of any alternates that were not awarded with the original Contract.

3.01 CONTRACT TIME

A. If this Bid is accepted, we will:

   1. Complete the Work by September 30th, 2026.

4.01 CHANGES TO THE WORK

A. For changes in the Work under Article 10 of the Agreement form, our combined fee for overhead and profit to be included our total cost shall be based on the following schedule:

   1. For Work performed by our own forces, 20 percent of the net cost.
   2. For Work performed by a Subcontractor, 10 percent of the amount due the Subcontractor.
   3. For the Subcontractor, 20 percent of the net cost of Work performed by the Subcontractor.
   4. For the Subcontractor, 10 percent of the net cost of Work performed by a Sub-subcontractor.

B. On work deleted from the Contract, our credit to the Owner shall be equal to the Architect-approved cost calculated per Article 10 of the Agreement Form.

5.01 ADDENDA

A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
   1. Addendum # _____ Dated _____.
   2. Addendum # _____ Dated _____.
   3. Addendum # _____ Dated _____.
   4. Addendum # _____ Dated _____.

6.01 PERFORMANCE AND PAYMENT BONDS AND INSURANCE

A. In signing and submitting this Proposal Form, we commit to provide Performance and Payment Bonds and Insurance as described in the Form of Agreement, the Supplementary Conditions Section 006000 - Bond Requirements and Section 006500 - Insurance requirements, included in the Bid Packet.

7.01 BID FORM SIGNATURE(S)

The Corporate Seal of

_____

(Bidder - print the full name of your firm) (Seal)

was hereunto affixed in the presence of:

_____	_____	_____
Authorized signing officer	Printed Name	Title
_____	_____	_____
Authorized signing officer	Printed Name	Title

If the Bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.

END OF BID FORM

SECTION 012300
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submission Procedures.

B. Documentation of changes to Contract Sum and Contract Time to be made under each Alternate.

C. General: The referenced Specification Sections contain pertinent requirements for materials and methods to achieve the work described herein. Coordinate related work and modify surrounding work, as required, to complete the Project under each Alternate designated in the Agreement.

1.02 REQUIREMENTS

A. Submit Alternates with full description of the proposed Alternate and the effect on adjacent or related components.

B. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement. Alternates will be taken in numerical order as the budget allows.

C. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.03 SELECTION AND AWARD OF ALTERNATES

A. Indicate variation of Bid Price for Alternates described below and list in Bid Form Document or any supplement to it, which requests a "difference" in Bid Price by adding to or deducting from the base bid price.

B. Alternate prices shall be held for 30 days from date of Notice to Proceed for Owner selection of any alternates that were not awarded with the original Contract.

1.04 SCHEDULE OF ALTERNATES

A. Alternate No. 1 (ADD): Add to the Base Bid all material, labor, overhead and profit to provide and install the new sound isolation rooms as shown on Sheet A2.4 and described in Section 132148 – Sound Conditioned Rooms. Include the additional days that should be added to the Contract Time to complete this work.

B. Alternate No. 2 (ADD): Add to the Base Bid all material, labor, overhead and profit to provide and install the new acoustic ceiling and wall panels as shown on Sheet A2.4 and described in Section 098400 – Acoustic Room Components. Include the additional days that should be added to the Contract Time to complete this work.

C. Alternate No. 3 (ADD): Ballard Hall: 1st Floor HVAC Units. Add to the Base Bid all material, labor, overhead and profit to demolish the existing HVAC units and provide and install the new HVAC units identified as PACU-1 and PACU-2. Include all related work associated with the

demolition of the existing and installation of the new units as described in the Drawings and Project Manual and as required to complete the Work.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 020800
REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS

PART 1: GENERAL

1.1 SUMMARY

This work provides for the furnishing of all labor, material and equipment for the asbestos abatement activities specified herein. The work entails the proper removal and disposal of asbestos-containing material at Tougaloo College Coleman Library, located in Tougaloo, Mississippi. The asbestos abatement is outlined below. Also, see EMP DRAWINGS EMP – 2367. All applicable EPA, MDEQ, AHERA, OSHA rules and regulations should be followed. The asbestos containing materials (ACM) that are to be abated are listed in the abatement guidelines. Regardless, the contractor shall field verify all quantities prior to providing an abatement price proposal and shall include any associated pricing that they may encounter to access all ACM.

The contractor understands and agrees that they will abide to all the contractor work practices.

ABATEMENT SUMMARY:
BASE BID:

1. Abate the ACM VCT/Floor Tile, mastic and cove base located in the identified areas on EMP-2367

ADDITIONAL NOTES:

1. The AAC (**asbestos abatement contractor)** should coordinate with the owner's environmental consultant (EC) Environmental Management Plus, Inc. (EMP) on all abatement activities. **AT NO TIME SHALL ANY ABATEMENT ACTIVITIES OCCUR WITHOUT EMP AUTHORIZATION!**

2. All applicable OSHA and AHERA standards shall apply on this job. This includes, but not limited to, 29 CFR1910.1200, 29 CFR 1926.1101, 29 CFR 1926.850, AHERA 40 CFR 61 Subpart M, 29 CFR 1910.134, 40CFR Part 763 Subpart G, E and all other applicable Federal, State and local regulations.

3. All asbestos removal work shall be performed utilizing wet methods and techniques as appropriate for the type of asbestos being removed.

4. Lock down encapsulant shall be applied to all remaining substrates.

5. Air monitoring shall be conducted during **ALL ASBESTOS ABATEMENT WORK.** Clearances shall be conducted by PCM**. All daily air monitoring shall be conducted by the owners EC (EMP) but paid for by the contractor. The PCM clearance shall be conducted by the EC (EMP) but paid for by the owner.**

6. It is the sole responsibility of the asbestos abatement contractor (AAC) to field verify all quantities. By submitting a price, the AAC acknowledges that he has visited the site
and fully understands the conditions of all outlined work.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

A. American National Standards Institute (ANSI)

1. Fundamental Governing the Design and Operation of Local Exhaust Systems (ANSI

Z9.2)
2. Respiratory Protection (ANSI Z88.2)

B. American Society for Testing and Materials (ASTM)

1. Aging Effects of Artificial Weathering on Latex Sealants (ASTM C 732)
2. Surface and Interfacial Tension of Solutions of Surface-Active Agents (ASTM D 1331)
3. (Rev. A) Surface Burning Characteristics of Building Materials (ASTM E 84)
4. Water Vapor Transmission of Materials (ASTM E 96)
5. Fire Tests of Building Construction and Materials (ASTM E 119)
6. Standard Practice for Visual Inspection of Asbestos Abatement Projects (ASTM E1368-99).

C. Code of Federal Regulations (CFR)

1 Respiratory Protection (29 CFR 1910.134)
2. Sanitation (29 CFR 1910.141)
3. Accident Prevention Signs and Tags (29 CFR 1910.145)
4. Hazard Communication (29 CFR 1910.1200)
5. Asbestos (29 CFR 1926.1101)
6. General Provisions (40 CFR 61, Subpart A)
7. National Emission Standards for Asbestos (40 CFR 61, Subpart M)
8. Asbestos Hazard Emergency Response Act (AHERA, 40 CFR 763)

D. Environmental Protection Agency (EPA)

1. Guidance for Controlling Asbestos Containing Materials in Buildings (EPA 560/5-85-024)

E. Underwriters Laboratories, Inc. (UL)
1. High-Efficiency, Particulate, Air Filter Units (UL 586)

STANDARDS

The following regulations and standards have the same force and effect as if copied directly into the contract documents or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

1. OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards:

   a. 29 CFR 1910 (general industry regulations)

   b. 29 CFR 1910.1001 (asbestos regulations)

   c. 29 CFR 1910.134 (respirator regulations)

   d. 29 CFR 1926 (construction safety regulations)

   e. 29 CFR 1926.58 (asbestos regulations)

2. ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980.

3. CGA - Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration," and Specification G-7.1 "Commodity Specification for Air."

4. MSHA - Mine Safety and Health Administration.

5. NIOSH - National Institute for Occupational Safety and Health.

1.3 DEFINITIONS

1.3.1 Amended Water: Water containing a wetting agent or surfactant with a surface tension of 29 dynes per square centimeter when tested in Accordance with ASTM D 1331.

1.3.2 Area Sampling: Sampling of asbestos fiber concentrations within the asbestos control area and outside the asbestos control area which approximates the concentrations of asbestos in the theoretical breathing zone but is not actually collected in the breathing zone of an employee.

1.3.3 Asbestos: The term asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite and any of these minerals that have been chemically treated or altered. Materials are considered to contain asbestos if the asbestos content is at least one percent (1%) of the material by area.

1.3.4 Asbestos Control Area: That area where asbestos removal operations are performed which is isolated by physical boundaries which assist in the prevention of the uncontrolled release of asbestos dust, fibers, or debris. Two (2) examples of an asbestos control area are: a full containment and a "glovebag."

1.3.5 Asbestos Fibers: Those fibers having an aspect ratio of at least 3:1 and longer than five (5) micrometers as determined by National Institute for Occupational Safety and Health (NIOSH) Method 7400.

1.3.6 Asbestos Permissible Exposure Limit: 0.1 fibers per cubic centimeter of air as an eight (8) hour time weighted average as defined by 29 CFR 1926.1101 or other Federal legislation having legal jurisdiction for the protection of workers' health.

1.3.7 Asbestos Abatement Contractor (AAC): The contractor that is responsible for the asbestos abatement.

1.3.8 Background: Normal airborne asbestos concentration in an area similar to the asbestos abatement area but in an uncontaminated (with asbestos) state.

1.3.9 Encapsulants: Specific materials in various forms used to chemically entrap asbestos fibers in various configurations to prevent those fibers from becoming airborne. There are four (4) types of encapsulants as follows which must comply with performance requirements as specified herein:

a. Removal Encapsulant (can be used as a wetting agent);
b. Bridging Encapsulant (used to provide a tough, durable surface coating to asbestos-containing material);
c. Penetrating Encapsulant (used to penetrate the asbestos-containing material down to substrate, encapsulating all asbestos fibers);
d. Lock-Down Encapsulant (used to seal off or "lock-down" minute asbestos fibers left on surface from which asbestos-containing material has been removed).

1.3.10 Friable Asbestos Material: Material that contains more than one percent (1%) asbestos by area and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

1.3.11 Glovebag Technique: The use of impervious plastic bag-like enclosure affixed around an asbestos-containing material, with glove-like appendages through which material and tools

may be handled in Accordance with 29 CFR 1926.1101.

1.3.12 HEPA Filter Equipment: High efficiency particulate air (HEPA) filtered vacuum and/or exhaust ventilation equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall retain 99.97 percent of particles 0.3 microns or larger as indicated in UL 586.

1.3.13 Nonfriable Asbestos Material: Material that contains asbestos in which the fibers have been temporarily locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not normally release asbestos fibers during any appropriate use, handling, storage, or transportation. It is understood that asbestos fibers will be released under other conditions such as demolition or removal.

1.3.14 Personal Sampling: Air sampling to determine asbestos fiber concentrations within the breathing zone of a specific employee, performed in Accordance with 29 CFR 1926.1101.

1.3.15 Asbestos Abatement Contractor's Industrial Hygienist (AACIH): That Competent Person hired by the Contractor to perform the herein listed industrial hygiene tasks. In some instances, the AACIH can perform this role vicariously through a trained subordinate, but only with the specific consent of the Contractor's Industrial Hygienist.

1.3.16 TEM: Refers to Transmission Electron Microscopy.

1.3.17 TSI: Thermal System Insulation: A type of asbestos containing material that is associated with insulations

1.3.18 Time Weighted Average (TWA): The TWA is an eight (8) hour time weighted average airborne concentration of asbestos fibers. At least three (3) full shift samples per person are required to establish that person's TWA exposure.

1.3.19 Wetting Agent: That specific agent used to reduce airborne asbestos levels by physically bonding asbestos fibers to material to be removed. An equivalent wetting agent must have a surface tension of at least 29 dynes per square centimeter as tested in Accordance with ASTM D 1331.

1.3.20 ACM: Asbestos-containing material.

1.3.21 Environmental Manager-EM: This is the person hired by the Owner to manage all aspects of the asbestos abatement project. This shall mean employees and designated representatives of the Project Manager.

1.4 REQUIREMENTS

1.4.1 Description of Work

The work covered by this section includes the handling of asbestos-containing materials which are encountered during the abatement project and describes some of the resultant procedures and equipment required to protect workers and occupants of the building or area, or both, from contact with airborne asbestos fibers. The work also includes the disposal of the generated asbestos-containing material. Under normal conditions non-friable or chemically bound materials containing asbestos would not be considered hazardous; HOWEVER, SINCE THESE MATERIALS MAY RELEASE AIRBORNE ASBESTOS FIBERS DURING ABATEMENT, THEY MUST BE HANDLED IN ACCORDANCE WITH THE REMOVAL AND DISPOSAL PROCEDURES AS PER THE MDEQ, EPA AND SPECIFIED HEREIN.

1.4.1.1 REMOVAL OF ACM:

The AAC should follow standard removal procedures for ACM floor tile and mastic. Below outlines basic removal techniques. However, the AAC shall also utilize guidelines per any and all applicable EPA, AHERA, state, local and federal guidelines.

FLOOR TILE AND MASTIC:

1. Spray asbestos-containing floor tile or with a fine mist of amended water or pour a designated removal agent (i.e. citric acid) onto the floor area.

2. Allow time for the removal agent to penetrate to mastic.

3. Remove tile from the floor. Remove tile in manageable quantities.

4. While the tile is being removed, continuously mist the work area with a fine mist of amended water.

5. After the tile is removed use a stiff nylon bristled brush and additional mastic remover to remove remaining mastic from the floor.

6. Additionally, cove base molding and mastic shall also be removed in the area as contaminated waste.

7. Place all floor tiles in double bags, and then immediately load into dumpsters. ACM debris should be transported to approved landfill.

8. In 6 mil polyethylene plastic, wrap and/or bag all materials and or ancillary materials that may have come in contact with ACM.

9. Per EPA, properly wet and then seal airtight with a second layer of 6 mil plastic to obtain 12 mil of poly (double bag). If bagged, goose neck tied airtight.

10. Carefully place materials in secured lined dumpster

11. Utilizing proper Owner labeling, dumpster is to be hauled to landfill approved by the MDEQ to accept asbestos materials.

ADDITIONAL NOTES:
Wetting Materials:
For wetting prior to disturbance of asbestos-containing materials, use either amended water or a removal encapsulant.

Amended Water:
Provide water to which a non-toxic surfactant has been added. Use a sufficient mixture of surfactant and water which results in proper wetting of the asbestos-containing material and retardation of fiber release during disturbance of the material.

Disposal Bags: Each bag (both outer and inner bag) must be properly labeled:

Approved Landfill:
Utilizing proper MDOT labeling, dumpster is to be hauled to MSDEQ approved landfill. A waste manifest from landfill shall be provided as closeout.

1.4.1.2. FINAL CLEANING/CLEARANCE PROCEDURES

Decontamination of air in the Work Area which has been, or may have been contaminated by the elevated airborne asbestos fiber levels generated during abatement activities, or which may previously have had elevated fiber levels generated during abatement activities, or which may previously have had elevated fiber levels due to friable asbestos-containing materials in the space. Work also includes the cleaning, and decontamination of all surfaces (ceiling, walls, floor) of the Work Area, and all furniture or equipment in the Work Area.

CLEARANCE PROCEDURES: ** THE FOLLOWING STEPS SHOULD BE PERFORMED IN ORDER ** WHEN APPLICABLE.

A. SUMMARY OF INSPECTION/CLEARANCE PROCEDURES WHEN APPLICABLE.

1. Pre-encapsulation visual inspection (Owner Representative)
2. Encapsulation of floor
3. Pull first layer of wall poly
4. Pull second layer of wall poly
5. Visual inspection (Owner Representative)
6. Run phase contrast aggressive air test
7. Remove critical barriers

Note: Visual inspections will not be deemed complete and clearance testing conducted until the architect asbestos consultant is satisfied that the work area has been thoroughly inspected and properly cleaned.

B. FIRST CLEANING:

Carry out a first cleaning of all surfaces of the work area including items of remaining sheeting, ducts, conduit, bar joist, tools, scaffolding and/or staging by use of damp cleaning and mopping and/or a HEPA filtered vacuum (Note: A HEPA filtered vacuum will fail if used with wet material). Do not perform dry dusting or sweeping. Use each surface of a cleaning cloth one time only and then dispose of as contaminated waste.

C. FIRST INSPECTION

Complete Visual Inspection of the entire work area including: the substrate from which ACM was removed, decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, window, and other openings; look for debris from any sources, residue on surfaces, dust or other matter. If any such debris, residue, dust or other matter is found repeat cleaning and continue decontamination procedure from that point. When the area is visually clean, notify Owner Representative so a visual inspection can be scheduled.

D. ENCAPSULATION OF SUBSTRATE:

After passing first visual inspection, encapsulate the area. Encapsulant shall be a penetrating encapsulant. Maintain negative air system in operation during encapsulation work.

E. PHASE 1 AIR SAMPLES: (For daily use only. Clearance must be by TEM)

In each work area after completion of the first visual inspection, samples will be taken with both layers of polyethylene remaining and analyzed as follows:

Phase Contrast Microscopy (PCM)

03	Number of Samples	Filter Media	Detection Limit	Minimum Volume	Rate LPM

			Fibers/cc	(Liters)	
Each Work Area	5	Cellulose Ester	0.01	3850	2-12

Analysis: Fibers on each filter will be measured using the NIOSH 7400 Method, A counting rules.

F. REMOVE BOTH LAYERS OF POLY:

Remove both layers of polyethylene sheeting (i.e. walls and floors), leaving only the critical barriers (the sole barrier which divides the work area from other areas) in place.

G. FINAL CLEANING:

Carry out a final cleaning of all surfaces in the work area in the same manner as the first cleaning after removing both layers of polyethylene sheeting.

Following the final cleaning of the work area and passing Phase I air clearance, the work area will be visually inspected for the final time. After passing the final visual inspection, a final clearance air test will be performed.

H. FINAL VISUAL INSPECTION

Complete Visual Inspection of the entire work area including: decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, window, and other openings; look for debris from any sources, residue on surfaces, dust or other matter. If any such debris, residue, dust or other matter is found repeat final cleaning and continue decontamination procedure from that point.
Any small quantities of residual material found upon removal of the plastic sheeting shall be removed with a HEPA filtered vacuum cleaner and local area protection. If significant quantities, as determined by the Owner Representative, are found then the entire area affected shall be re-cleaned.

I. PHASE 2 FINAL AIR SAMPLING:

CLEARANCE: Transmission Electron Microscopy (TEM): After the work area is found to be visually clean, air samples will be taken and analyzed in accordance with the procedures set forth in this section of the specifications.

1. TEM Aggressive Sampling:

All air samples will be taken using aggressive sampling techniques as follows:

Each homogeneous work area after completion of all cleaning work shall have a minimum of 12 samples that will be taken and analyzed as follows:

Location Sampled	Number of Samples	Filter Media	Detection Limit Fibers/cc	Minimum Volume (liters)	Rate LPM
Inside Work Area	5	Cellulose Ester	0.005	1500	2-10
Outside Work Area	5	Cellulose	0.005	1500	2-10

		Ester			
At Job Site	2	Cellulose Ester	0.005	0	
At Laboratory	1	Cellulose Ester	0.005	0	

Transmission Electron Microscopy (TEM) :

Analysis: Asbestos fibers on each filter will be measured using the Interim Transmission Electron Microscopy Analytical Methods - per AHERA (EPA 40 CFR Part 763) Appendix A to Subpart E mandatory and non-mandatory sections.

Release Criteria:

Decontamination of the work site is complete if all work area sample results are less than or equal to 70 s/mm^2, or if the average fiber concentration of the work area is not statistically larger than the average of outside samples for each homogeneous work area. If the average of the work area samples is statistically larger than the average of the outside samples, then the cleaning procedures of this section shall be repeated.
There are no standards available for flow rate of leaf blowers or large fans. However, this information is not critical to the success of the procedure. Before sampling pumps are started the exhaust from forced air equipment (leaf blower with at least 1 horsepower electric motor) will be swept against all walls, ceilings, floors, ledges and other surfaces in the room. This procedure will be continued for 5 minutes per 10,000 cubic feet of room volume. One 16-20 inch diameter fan per 10,000 cubic feet of room volume will be mounted in a central location at approximately 2 meters above floor, directed toward ceiling and operated for the entire period of sample collection.

Air samples will be collected in area subject to normal air circulation away from room corners, obstructed locations, and sites near window, doors or vents. After air sampling pumps have been shut off, fans will be shut off.

2. DAILY: Phase Contrast Microscopy (PCM):

In each work area after completion of all cleaning work, a minimum of 5 samples will be taken and analyzed as follows:

Location Sampled	Number of Samples	Filter Media	Detection Limit Fibers/cc	Minimum Volume (liters)	Rate LPM
Inside Work Area	5	Cellulose Ester	0.01	3850	2-12

Release Criteria: Decontamination of the work site is complete if all work area sample results are less than 0.01 f/cc. If one or more of the results of work area samples is greater, then cleaning procedures of this section shall be repeated.

J. COMPLETION OF ABATEMENT WORK:

Seal negative air machines with 6 mil polyethylene sheet and duct tape to form a tight seal at intake end before being moved from work area.

Remove all filters in the building's air handling system and dispose of as asbestos contaminated waste in accordance with the requirements of this specification. Wet wipe and HEPA vacuum interior of air handling unit to remove all visible dust and debris. Put in new filters provided by the Owner if disposable type. Replace all HVAC Filters using materials supplied by Owner for "disposable filters" only, clean and decontaminate all metal-element type or non-replaceable filters for reinstallation.

Asbestos Abatement Work is Complete upon meeting the work area clearance criteria and fulfilling the following:

Remove all equipment, materials, debris from the work site.

Dispose of all asbestos-containing waste material as specified in this specification.

1.4.2 Medical Requirements

Report from Medical Examination: As part of compliance with OSHA medical surveillance requirements for each worker who is to enter the work area.

Submit or have on file, at a minimum, for each worker the following:

1. Name and Social Security Number

2. Physician's Written Opinion from examining physician including at a minimum the following:

3. Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos.

4. Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.

5. Statement that the worker has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.

6. Copy of information that was provided to physician in compliance with 29 CFR 1926.

7. Statement that worker is able to wear and use the type of respiratory protection proposed for the project and is able to work safely in an environment capable of producing heat stress in the worker.

1.4.2.1 Medical Examinations

Before exposure to airborne asbestos fibers, provide workers with a comprehensive medical examination as required by 29 CFR 1926.1101 or other pertinent state or local directives. This requirement must have be satisfied prior to the work beginning.

1.4.2.2 Medical Records

Maintain complete and accurate records of employees' medical examinations, medical records, and exposure data for a period of at least thirty (30) years after termination of employment and make records of the required medical examinations and exposure data available for inspection and copying to: The Assistant Secretary of Labor for Occupational Safety and Health (OSHA), or authorized representatives of them, and an employee's physician upon the request of the employee or former employee.

1.4.2.3 Training

Within one (1) year prior to assignment to asbestos work, each employee shall be instructed by an EPA accredited training facility with regard to the hazards of asbestos, safety and health precautions, the use and requirements for protective clothing, equipment, and respirators, and the association of cigarette smoking and asbestos-related disease, and all additional requirements of 29 CFR 1926.1101. Furnish each employee with a respirator fit test administered by the Contractor as required by 29 CFR 1926.1101. Fully cover engineering and other hazard control techniques and procedures. In addition, train all personnel involved in the asbestos removal in accordance with Mississippi Asbestos Accreditation Act and 29 CFR 1926.1101. The AAC shall document the training by providing dates of training, training entity, course outline, names of instructors, and qualifications of instructors upon request by the AC.

1.4.3 Permits, Licenses, and Notifications

Obtain necessary permits and licenses in conjunction with asbestos removal, hauling, and disposition, and furnish timely notification of such actions required by Federal, state, regional, and local authorities. Notify the MS Department of Environmental Quality (MSDEQ) and the Abatement Contractor (AC) in writing ten (10) or two (2) (depending on type of ACM) days prior to the commencement of work in accordance with 40 CFR 61, Subpart M.

1.4.4 Safety and Health Compliance

In addition to detailed requirements of this specification, comply with those applicable laws, ordinances, criteria, rules, and regulations of Federal, State, regional, and local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with the applicable requirements of the current issue of 29 CFR 1926.1101, 40 CFR 61, Subpart A, and 40 CFR 61, Subpart M. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification, applicable laws, rules, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirement as defined by the AC shall apply.

1.4.5 Respiratory Protection Program

Establish and implement a respirator program as required by ANSI Z88.2 and 29 CFR 1910.134.

1.4.6 Asbestos Abatement Industrial Hygienist

Conduct daily area and clearance air sampling and training under the direction of an Industrial Hygienist.

1.4.7 Hazard Communication

Adhere to all parts of 29 CFR 1910.1200 and provide the AC with a copy of the Material Safety Data Sheets (MSDS) for all materials brought to the site.

1.5 SUBMITTALS

The submittal materials shall be in the order as outlined below:

Pre-Abatement Submittals:

1. Proof of Insurance naming Owner, Architect and Environmental consultant as additional insured.
2. Abatement Contractor’s MDEQ certification
3. MS Board of Contractor Certificate of Responsibility Number
4. Supervisor and Workers MDEQ certification

5. MDEQ Notification form (completed)
6. Detailed Plan of Action
7. Contingency Plans
8. List of Emergency Numbers (Office, Cell, etc...)
9. Respiratory Protection Program for this specific project
10. Medical Records
11. Certificate of Worker's Acknowledgment
12. Sample Disposal Label
13. Waste Disposal Site Certification
14. Waste Manifest
15. Pressure Differential System Design Calculations
16. MSDS on materials used
17. Manufacturer's Catalog Data

Post -Abatement Submittals

1. Contractor's Daily Logs
2. Sign In/Sign out logs
3. Visitor's Release
4. Event Report/Accident Report
5. MDEQ Notification
6. Waste Manifests

1.5.1 Manufacturer's Catalog Data

A. Local exhaust equipment (in the event the submitted Asbestos Hazard Work Plan utilizes this equipment, see section 1.5.2.1)
B. Vacuums
C. Respirators
D. Pressure differential automatic recording instrument (in the event the submitted Asbestos Hazard Work Plan utilizes this equipment, see section 1.5.2.1)
E. Amended water
F. Glovebags
G. Material Safety Data Sheets (MSDS) for all materials proposed for transport to the project site.

1.5.2 Statements

A. Asbestos Hazard Abatement Plan
B. Testing Laboratory
C. Competent Person/Air Monitoring (IH) Certification
D. Landfill Approval
E. Employee Training
F. Medical Certification Requirements
G. Asbestos Hazard Abatement Plan
H. Example of Disposal Labels

1.5.2.1 Asbestos Hazard Abatement Plan

Before any asbestos abatement work begins, submit a detailed plan of the safety precautions and work procedures to be used in the removal and demolition of material containing asbestos. The plan should be prepared by the AAC and subsequently approved by the owner. Such plan shall include but not be limited to the precise personal protective equipment to be used, the location of asbestos control areas including clean and dirty area, buffer zones, showers, storage areas, change rooms, removal method, interface of trades involved in the construction, sequencing of asbestos related work, disposal plan, type of wetting agent and asbestos sealer to be used, locations of local exhaust equipment, planned air monitoring strategies, and a detailed description of the method to be employed in order to control

pollution. The plan shall also include both fire and medical emergency response plans. This plan must be approved in writing prior to the start of any asbestos work. The AAC shall meet with the owner prior to beginning work, to discuss in detail the asbestos plan, including work procedures and safety precautions. Once approved, the plan will be enforced as an addition to the specification. Any changes required in the specification as a result of the plan shall be identified specifically in the plan to allow for free discussion and approval by the owner prior to the start of work. A copy of the approved plan shall be readily accessible at job site at all times.

1.5.2.2 Air Monitoring Testing Laboratory

Daily samples can be read locally or at any lab qualified to analyze PCM samples. Clearances shall be analyzed by laboratories qualified to analyze via TEM.

1.5.2.3 Industrial Hygienist/Air Monitor (IH/AM) Certification

The IH will keep on file copies of all air monitoring certifications provided by the MDEQ and the State of Mississippi.

1.5.2.4 Landfill Approval

Submit written evidence that the landfill for disposal is approved for asbestos disposal by the regulatory agency. Submit detailed delivery tickets, prepared, signed and dated by an agent of the landfill, certifying the amount of asbestos materials delivered to the landfill, within three (3) days after delivery. In those states that require a hazardous waste manifest the Contractor shall submit, within three (3) days, signed copies of such to the AC.

1.5.2.5 Employee Training

Submit certificates provided by the State of Mississippi (Asbestos Worker's and Supervisor's Certificates) indicating that the employee has received training in the proper handling of materials that contain asbestos; understands the health implications and risks involved, including the illnesses possible from exposure to airborne asbestos fibers; understands the use and limits of the respiratory equipment to be used; and understands the results of monitoring of airborne quantities of asbestos as related to health and respiratory equipment as indicated in 29 CFR 1926.1101 on an initial and annual basis.

1.5.2.6 Medical Certification

Provide a written certification signed by a licensed physician that all workers and supervisors have met or exceeded all of the medical prerequisites listed herein and in 29 CFR 1926.1101 and 29 CFR 1910.134.

1.5.3 Field Test Reports

A. Air sampling results.

B. Pressure differential recordings for local exhaust system (in the event the submitted. Asbestos Hazard Work Plan utilizes this equipment, see section 1.5.2.1).

C. Asbestos disposal quantity report.

PART 2 - MATERIALS AND EQUIPMENT

2.1 EQUIPMENT

Make available to the Project Manager and his representatives, two (2) complete sets of personal

protective equipment as required herein for entry to the asbestos control area at all times for inspection of the asbestos control area. Provide equivalent training to the Project Manager or a designated representative as provided to Contractor employees in the use of the required personal protective equipment. Provide manufacturer's certificate of compliance for all equipment required to contain airborne asbestos fibers.

2.1.1 Respirators

Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

2.1.1.1 Respirators for Handling Asbestos

Provide personnel engaged in the removal and demolition of asbestos materials with at least a half-faced respirator. The use of any type of respiratory protection which provides a lesser protection factor must be approved by the Project Manager in writing prior to the work beginning. It shall be a part of the Work Plan. The request shall identify the specific type of respiratory protection requested and the reasoning behind the choice. Forward the request to the Project Manager who will provide a written response to the request. A different request shall be filed for each type of operation. All respiratory protection shall comply with the spirit and letter of 29 CFR 1926.1101 and 29 CFR 1910.134. Use of respirators which provide less protection than powered air purifying respirators is prohibited unless approved by the Project Manager.

2.1.2 Personal Protective Equipment

2.1.2.1 Protective Clothing

Provide personnel exposed to asbestos with disposable protective whole-body clothing, head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber gloves for comfort but shall not be used alone. Make sleeves secure at the wrists, make foot coverings secure at the ankles, and make clothing secure at the neck by the use of tape.

2.1.2.2 Work Clothing

Provide cloth work clothes for wear under the disposable protective coveralls and foot coverings and either dispose of or properly launder them after usage.

2.1.2.3 Decontamination Unit

Provide a temporary unit with a separate decontamination locker room and a clean locker room with a shower that complies with 29 CFR 1910.141 (d) (3) in between for personnel required to wear whole body protective clothing. Keep street clothing and street shoes in the clean locker. HEPA vacuum and remove asbestos contaminated disposable protective clothing while still wearing respirators at the boundary of the asbestos work area and seal in impermeable bags or containers for disposal. Do not wear work clothing between home and work. Locate showers between the decontamination locker room and the clean locker room and require that all employees shower before changing into street clothes. Collect used shower water and filter to remove asbestos contamination with approved water filtration equipment. Dispose of filters and residue as asbestos waste. Discharge clean water to the sanitary system. Dispose of asbestos contaminated work clothing as asbestos contaminated waste. Decontamination units shall be physically attached to the asbestos control area. Build both a personnel decontamination unit and an equipment decontamination unit in each asbestos control area.

2.1.2.4 Eye Protection

Provide goggles to personnel engaged in asbestos operations when the use of a full-face respirator is not required.

2.1.3 Warning Signs and Labels

Provide warning signs at all approaches to asbestos control areas containing concentrations of airborne asbestos fibers. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos.

2.1.3.1 Warning Signs

Provide vertical format conforming to 29 CFR 1910.145 and 29 CFR 1926.1101 (k) minimum twenty (20) by fourteen (14) inches displaying the following legend in the lower panel:

LEGEND	NOTATION
Danger	1-inch Sans Serif Gothic or Block
Asbestos	1-inch Sans Serif Gothic or Block
Cancer and Lung Disease Hazard	1/4-inch Sans Serif Gothic or Block
Authorized Personnel Only	1/4-inch Gothic
Respirators and Protection Clothing are Required in this Area	1/4-inch Gothic

Spacing between lines shall be at least equal to the height of the upper of any two (2) lines.

2.1.3.2 Warning Labels

Provide labels conforming to 29 CFR 1926.1101 (k) of sufficient size to be clearly legible, displaying the following legend:

LEGEND
DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

2.1.4 Local Exhaust System

Provide a local exhaust system in the asbestos control area in accordance with ANSI Z9.2 and 29 CFR

1926.1101 that will provide at least four (4) air changes per hour inside of the containment. Local exhaust shall be operated twenty-four (24) hours per day, until the asbestos control area is removed and shall be leak proof to the filter and equipped with HEPA filters. Local exhaust equipment shall be sufficient to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent, unsealed areas. Provide continuous twenty-four (24) hour per day monitoring of the pressure differential with a pressure differential automatic recording instrument. In no case shall the building ventilation system be used as the local exhaust system for the asbestos control area. Filters on exhaust equipment shall conform to ANSI Z9.2 and UL 586. The local exhaust system shall terminate to outdoors.

2.1.5 Tools

Vacuums shall be leak proof to the filter and equipped with HEPA filters. Filters on vacuums shall conform to ANSI Z9.2 and UL 586. Do not use power tools to remove asbestos-containing materials (ACM) unless the tool is equipped with effective, integral HEPA filtered exhaust ventilation systems. Remove all residual asbestos from reusable tools prior to storage or reuse.

2.1.6 Rental Equipment

If rental equipment is to be used, furnish written notification to the rental agency concerning the intended use of the equipment and the possibility of asbestos contamination of the equipment.

2.1.7 TEMPORARY ENCLOSURES

*****NOTE: IF AT ANY TIME DURING THE ABATEMENT THE POLY FALLS, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND REPAIR THE POLY. THE CONTRACTOR MAY NOT RESUME THE ABATEMENT UNTIL APPROVAL BY THE OWNER'S REPRESENTATIVE.**

2.2 SEQUENCE OF WORK:

Carry out work of this section sequentially. Complete each activity before proceeding to the next.

2.2.1. Work Area:

The work area is the location where asbestos abatement work occurs. It is a variable of the extent of work of the contract. It may be a portion of a room, a single room, or a complex of rooms. A "work area" is considered contaminated during the work and must be isolated from the balance of the building and decontaminated at the completion of the asbestos control work.

Completely isolate the work area from the other parts of the building so as to prevent asbestos-containing dust or debris from passing beyond the isolated area. Should the area beyond the work area(s) become contaminated with asbestos-containing dust or debris as a consequence of the work, clean those areas in accordance with the procedures outlined in the project specifications.

Place all tools, scaffolding, staging, etc. necessary for the work in the area to be isolated prior to erection of the plastic sheeting temporary enclosure. Remove all uncontaminated removable furniture, equipment, and/or supplies from the work area before commencing work, or completely cover with two layers of polyethylene sheeting, at least 6 mils in thickness, securely taped in place with duct tape. Such furniture shall be uncovered prior to final air testing and shall be fully decontaminated.

2.2.2. Control Access:

Permit access to the work area only through the Decontamination Unit. All other means of access shall be

closed off and sealed, and warning signs displayed on the clean side of the sealed access.

2.2.3. Visual Barrier:

Where the work area is immediately adjacent to or within view of occupied areas, provide a visual barrier of opaque polyethylene sheeting at least 4 mils in thickness so that the work procedures are not visible to building occupants.

Where this visual barrier would block natural light, substitute frosted sheet plastic.

Optically clear observation windows shall be installed (and maintained).

2.2.4 Physical Barrier:

Where the area adjacent to the work area is accessible to the public, construct solid barrier on the public side of the sheeting to protect the sheeting.

Construct barrier with nominal 2" x 4" wood or metal studs 1'4" on center, securely anchored to prevent movement, covered with minimum 1/4" thick hardboard, 1/2" gypsum wallboard, or 1/2" plywood. Provide warning signs at each visual and physical barrier.

2.2.5 Critical Barriers:

Separate the work area from other portions of the building, and the outside by sheet plastic barriers at least 6 mils in thickness, or by sealing with duct tape.

Individually Seal all ventilation openings (supply and exhaust), lighting fixtures, clocks, doorways, windows, convectors and speakers, and other openings into the work area with adhesive tape alone or with polyethylene sheeting at least 4 mils in thickness, taped securely in place with adhesive tape. maintain seal until all work including Project Decontamination is completed. All ventilation openings (supply and exhaust) and any openings in ducts shall be sealed with two layers of polyethylene sheeting a minimum of 6 mils in thickness. The second layer should be independent of the first and overlap the first by a minimum of six inches (6"), where possible and upon approval of the EC.

Mechanically Support sheet plastic independently of duct tape or spray cement seals so that seals do not support the weight of the plastic. Following area acceptable methods of supporting sheet plastic barriers. Alternative support methods may be used if approved in writing by the Owner's Representative.
Nylon or polypropylene rope minimum 1/4" in diameter suspended between supports securely fastened on either side of opening at a maximum 1' below ceiling. Tighten rope so that it has 2" maximum dip. Drape plastic over rope from outside the work area so that a 2' flap of plastic extends over rope into work area. Staple or wire plastic to itself 1" below rope at maximum 6" on centers to form a sheath over rope. Lift flap and seal to ceiling with duct tape or spray cement. Seal loop at bottom of flap with duct tape. Erect entire assembly so that it hangs vertically without a "shelf" upon which debris could collect.

2.2.6. Primary Barrier: **Follow appropriate step when applicable.**

Clean all contaminated furniture, equipment, and/or supplies with a HEPA filtered vacuum cleaner or by wet cleaning prior to being moved or covered. All equipment furniture, etc. is to be deemed contaminated unless specifically declared as uncontaminated on the drawings or in writing by the Owner's Representative.

Preclean all surfaces in work area with a HEPA filtered vacuum or by wet wiping prior to the installation of any sheet plastic.

Enclose work areas with two (2) layers of plastic sheeting on floor (when applicable) and two (2) layers on walls, or as otherwise directed on the contract drawings or in writing by the Owner's Representative.

Seal windows and perimeter HVAC units with one layer of 6 mil polyethylene sheeting sealed with tape. Covering over HVAC units should seal to the floor.

Seal all openings in floor including, but not limited to, cable trays, piping, and conduit with silicon spray foam and tape.

Cover Floor of work area with one layer of minimum six (6) mil polyethylene and extend a minimum of 16" up walls.

Cover Walls up to ceiling line with one layer of polyethylene sheeting a minimum of 4 mils in thickness and extend at least 16" over floor. Form a sharp right-angle bend at junction of floor and wall so that there is no radius which could be stepped on causing the wall attachment to be pulled loose. Both spray-glue and duct tape all seams in floor covering. Locate seams in bottom layer six feet (6') from, or at right-angles to, seams in bottom layer. Install sheeting so that top layer can be removed independently of bottom layer. Do not cover overspray.

Cover Floor with second layer of polyethylene sheeting at least 6 mils in thickness and extend 16" up walls. Form a sharp right-angle bend at junction of floor and wall so that there is no radius which could be stepped on causing the wall attachment to be pulled loose. Both spray-glue and duct tape all seams in floor covering. Locate seams in top layer six feet (6') from, or at right-angles to, seams in bottom layer. Install sheeting so that top layer can be removed independently of bottom layer.

Cover Walls with second layer of polyethylene sheeting at least 4 mils in thickness and extend at least 16" over floor. Form a sharp right-angle bend at junction of floor and wall so that there is no radius which could be stepped on causing the wall attachment to be pulled loose. Both spray-glue and duct tape all seams in floor covering. Locate seams in top layer six feet (6') from, or at right-angles to, seams in bottom layer. Install sheeting so that top layer can be removed independently of bottom layer.

2.2.7. Secondary Barrier:

Provide a secondary layer of plastic as a drop cloth over floors to protect the primary layer from debris generated by the asbestos abatement work as specified in the appropriate manner. Secondary layer shall extend a minimum of 18 inches up wall.

2.3 TEMPORARY FACILITY

2.3.1. Installation, General:

General: Use qualified tradesmen for installation of temporary services and facilities. Locate temporary services and facilities where they will serve the entire project adequately and result in minimum interference with the performance of the work.

Relocate, modify and extend services and facilities as required during the course of work so as to accommodate the entire work of the project.

2.3.2 Water Service:

AAC is responsible for supplying water in areas where water is not available.

General: Water connection (without charge) to Owner's existing potable water system is limited to one 3/4" pipe-size connection, and a maximum flow of 10 gpm each to hot and cold water supply. Hot water shall be supplied at a minimum temperature of 100 degrees F. Supply hot and cold water to the

Decontamination Unit in accordance with this specification.

Maintain hose connections and outlet valves in leakproof condition. Where finish work below an outlet might be damaged by spillage or leakage, provide a drop pan of suitable size to minimize the possibility of water damage. Drain water promptly from pans as it accumulates.

2.3.3. ELECTRICAL SERVICE:

General: Provide a weatherproof, grounded temporary electrical power service and distribution system of sufficient size, capacity, and power characteristics to accommodate performance of work during the construction period. Install temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work.

Power Distribution System: Provide circuits of adequate size and proper characteristics for each use. In general run wiring overhead and rise vertically where wiring will be exposed to damage from construction operations.

Provide overload-protected disconnect switch for each temporary circuit located at the power distribution center.

For power hand tools and task lighting, provide a temporary 4-gang outlet at each decontamination unit, located in equipment room. Provide a separate 110-120 Volt, 20 Amp G.F.I. circuit for each 4-gang outlet (4 outlets per circuit).

2.3.4. TEMPORARY LIGHTING:

Provide the following where natural lighting or existing building lighting does not meet the required light level:

One 200-watt incandescent lamp per 1000 square feet of floor area, uniformly distributed, for general construction lighting, or equivalent illumination of a similar nature. In corridors and similar traffic areas provide one 100-watt incandescent lamp every 50 feet.

In stairways and at ladder runs, provide lamp minimum per story, located to illuminate each landing and flight. Provide sufficient temporary lighting to ensure proper workmanship everywhere, by combined use of daylight, general lighting, and portable plug-in task lighting.

Provide lighting in the Decontamination Unit as required to supply a 50-foot candle minimum light level.

2.3.5 SANITARY FACILITIES:

Use of Owner's existing toilet facilities, as indicated, will not be permitted. The Contractor will be responsible for having portable toilets on site.

2.3.6. FIRE EXTINGUISHERS:

Comply with the applicable recommendations of NFPA Standard 10 "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose but provide not less than one extinguishers in each work area in equipment room and outside work area in clean room.

2.4 NEGATIVE PRESSURE

Provide a fully operational negative air system within the work area maintaining continuously a pressure differential across work area enclosures of 0.02 inches of water. If the pressure differential should drop below 0.02 inches of water, all work within the work area shall cease until the pressure differential is regained and the Owner’s Representative gives the Contractor approval to begin work.

2.4.1. Determining the Ventilation Requirements:

Provide fully operational negative pressure systems supplying a minimum of one air change every 15 minutes. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total ventilation requirements in cubic feet per minute (cfm) for the work area by dividing this volume by the air change rate. Ventilation Required (CFM) - Volume of Work Area (cu. ft.)/15 min.

2.4.2. Determine Number of Units

Determine the number of units to achieve 15-minute change rate by dividing the ventilation requirement (CFM) above by capacity of exhaust unit(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters in the machines.

$$\text{No. of Units Needed} = \frac{\text{Ventilation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

ADD ONE (1) ADDITIONAL UNIT AS BACKUP IN CASE OF EQUIPMENT FAILURE OR MACHINE SHUTDOWN FOR FILTER CHANGING.

2.4.3 Location of Exhaust Units:

Locate exhaust unit(s) so that makeup air enters work area from outside the building and traverses work area as much as possible. This may be accomplished by positioning the exhaust unit(s) at a maximum distance from the worker access opening or other makeup air sources. The location of exhaust units and makeup air sources shall be shown on submittal drawings. Vent all negative air machines to the outside of the building.

2.4.4. Makeup Air: All makeup air to come from outside the building.

USE OF THE NEGATIVE PRESSURE SYSTEM:

Each unit shall be serviced by a dedicated minimum 115V-20A circuit with overload device tied into the Contractor's ground fault electrical panel which has sufficient space capacity to accommodate the load of all negative pressure units connected. Dedication of an existing circuit may be accomplished by shutting down existing loads on the circuit.

Test differential pressure system before any asbestos-containing material is wetted or removed. After the work area has been prepared, the decontamination facility set up, and the exhaust unit(s) installed, start the unit(s) (one at a time). Demonstrate operation and testing of differential pressure system to Owner’s Representative.

2.4.5. Use of System During Abatement Operations:

Start exhaust units before beginning work (before any asbestos-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant negative pressure until decontamination of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.

Do not shut down negative air system during encapsulation procedures, unless authorized by the Owner’s Representative in writing.

Start abatement work at a location farthest from the exhaust units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work, continue misting the air and do not resume until power is restored and exhaust units are operating again. Any power failures resulting in loss of negative pressure should immediately be reported to the Owner’s Representative in writing.

At completion of abatement work, allow exhaust units to run in order to remove airborne fibers that may have been generated during abatement work and cleanup and to purge the work area with clean makeup

air. The units may be required to run for a longer time after decontamination if dry or only partially wetted asbestos material was encountered during any abatement work.

2.5 DECONTAMINATION UNIT

Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, Changing Room, Shower Room, Equipment Room. Require all persons without exception to pass through this decontamination unit for entry into and exiting from the work area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit. Provide temporary lighting within decontamination units as necessary to reach a lighting level of 100-foot candles.

2.5.1. Changing Room (clean room):

Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing. Construct using polyethylene sheeting, at least 6 mil in thickness, an airtight seal between the Changing Room and the rest of the building. Locate so that access to Work Area from Changing Room is through Shower Room. Separate Changing Room from the building by a sheet polyethylene flapped doorway.

Require workers to remove all street clothes in this room, dress in clean disposable coveralls, and don respiratory protection equipment. Do not allow asbestos contaminated items to enter this room. Require workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.

Maintain floor of changing room to be dry and clean at all times. Do not allow overflow water from shower to wet floor in changing room.

Damp wipe all surfaces twice after each shift change with a disinfectant solution.

Provide a continuously adequate supply of disposable bath towels.

Provide posted information for all emergency phone numbers and procedures.

2.5.2 Shower Room:

Provide a completely watertight operational shower to be used for transit by cleanly dressed workers heading for the Work Area from the Changing area, or for showering by workers headed out of the Work Area after undressing in the Equipment Room. Construct room by providing a shower pan and 2 shower walls in a configuration that will cause water running down walls to drop into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.

Separate this room from the Changing and Equipment Rooms with airtight walls fabricated of 6 mil polyethylene.

Provide splash proof entrance to Changing and Equipment Rooms with 2 doors arranged in the following configuration:

At each entrance to the Shower Room, construct a door frame out of 2 x 4 lumber with 1 1/2" jambs (sides) and 1 1/2" head (top) and sill (bottom). Attach to this door frame two overlapping flaps of rubber roofing material, fastened at the head (top) and jambs (sides) (by clamping between a 1 1/2" x 3/4" batten and frame). Overlap the flaps a minimum of 6" in a direction that presents a shingle-like configuration to the water stream from the shower. Overlap sill (bottom) by 1 1/2" minimum. Arrange so that any air movement out of the Work Area will cause the flaps to seal against the door frame. At 1'-0" toward shower from each entrance to the Shower Room construct a second 2 x 4 door head (top). Attach to this door head a one piece flap of rubber roofing material, fastened at the top (by clamping between a 1 1/2" x 3/4" batten and head), overlapping onto each side of shower unit by 1 1/2" and stopping 1" clear of

shower floor.

Provide shower head and controls with both hot and cold water.

Contractor shall supply all hot water for this project.

Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition.

Arrange so that water from showering does not splash into the Changing or Equipment Rooms.

Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the work area. Pump wastewater to drain or to storage for use in amended water. If pumped to drain, provide 20 microns and 5 micron wastewater filters in line to drain or wastewater storage.

Change filters daily or more often if necessary. Locate filters outside shower unit in a leak-proof pan so that water lost during filter changes is caught by said pan and returned to shower.

2.5.3. Equipment Room (contaminated area):

Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers. Separate this room from the work area by a 6 mil polyethylene flap doorway.
Separate this room from the rest of the building with airtight walls fabricated of 6 mil polyethylene.

Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6 mil polyethylene.

2.5.4. Work Area:

Separate work area from the Equipment Room by polyethylene barriers. If the airborne asbestos level in the work area is expected to be high, as in dry removal, add an intermediate cleaning space between the Equipment Room and the work area. Damp wipe clean all surfaces after each shift change. Provide one additional floor layer of 6 mil polyethylene per shift change and remove contaminated layer after each shift.

2.5.5. Construction:

Walls and Ceiling: Construct airtight walls and ceiling using polyethylene sheeting, at least 6 mil in thickness. Attach to existing building components or a temporary framework.

Floors: Use 2 layers (minimum) of 6 mil polyethylene sheeting to cover floors in the Equipment, Shower (underneath shower pan), and Changing Rooms. Provide an additional layer in the Equipment Room for every shift change expected. Roll one layer of plastic from Equipment Room into Work area after each shift change. Provide a minimum of two (2) layers of plastic at all times. Use only clear plastic to cover floors.

Doors: Fabricated from overlapping sheets with openings a minimum of three feet (3') wide. Configure so that sheeting overlaps adjacent surfaces. Weigh sheets at bottoms as required so that they quickly close after being released. Put arrows on sheets to indicate direction of overlap and/or travel. Provide a minimum of six feet (6') between entrance and exit of any room. If the decontamination area is located within an area containing friable asbestos on overhead ceilings, ducts, piping, etc., provide the area with a minimum 1/4" hardboard or 1/2" plywood "ceiling" with polyethylene sheeting, at least 4 mil in thickness covering the top of the "ceiling."

Visual Barrier: Where the decontamination area is immediately adjacent to and within view of occupied areas, provide a visual barrier of opaque polyethylene sheeting at least 4 mil in thickness so that worker privacy is maintained and work procedures are not visible to building occupants. Where the area

adjacent to the decontamination area is accessible to the public, construct a solid barrier on the public side of the sheeting to protect the sheeting. Construct barrier with wood or metal studs covered with minimum 1/4-inch-thick hardboard or 1/2-inch plywood. Where the solid barrier is provided, sheeting need not be opaque.

Electrical: Provide sub-panel at Changing Room to accommodate all removal equipment. Power sub-panel directly from a building electrical panel. Connect all electrical branch circuits in decontamination unit and particularly any pumps in shower room to a ground-fault circuit protection device.

2.5.6. DECONTAMINATION SEQUENCE:

Entering Work Area:

Worker enters Changing Room and removes street clothing, puts on clean disposable overalls and respirator, and passes through the Shower Room into the Equipment Room.

Any additional clothing and equipment left in Equipment Room needed by the worker are put on in the Equipment Room.

Worker proceeds to Work Area.

Exiting Work Area:

Before leaving the work area, require the worker to remove all gross contamination and debris from overalls and feet. The worker then proceeds to the Equipment Room and removes all clothing except respiratory protection equipment. Extra work clothing may be stored in contaminated end of the Equipment Room. Disposable coveralls are placed in a bag for disposal with other contaminated materials. After showering, the worker moves to Changing Room and dresses in either new coveralls for another entry or street clothes if leaving.

2.5.7. EQUIPMENT AND BAG-OUT DECONTAMINATION UNITS:

Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, Clean Room, Holding Room and Washroom for removal of equipment and material from work area. Do not allow personnel to enter or exit work area through Equipment Decontamination Unit.

Washdown Station: Provide an enclosed shower unit located in work area just outside Washroom as an equipment, bag and container cleaning station.

Washroom: Provide washroom for cleaning of bagged or containered asbestos-containing waste materials passed from the work area. Construct washroom of 2" x 4" wood framing and polyethylene sheeting, at least 6 mil in thickness and located so that packaged materials, after being wiped clean can be passed to the Holding Room. Separate this room from the work area by a single flap of 6 mil polyethylene sheeting.

Holding Room: Provide Holding Room as a drop location for bagged asbestos-containing materials passed from the Washroom. Construct Holding Room of 2' X 4' wood framing and polyethylene sheeting, at least 6 mil in thickness and located so that bagged materials cannot be passed from the Washroom through the Holding Room to the Clean Room. Separate this room from the adjacent rooms by double flaps fabricated from 1/16" thick single ply rubber roofing material either EPDM or Neoprene.

Clean Room: Provide Clean Room to isolate the Holding Room from the building exterior. Construct Clean Room of 2' X 4' frame and polyethylene sheeting, at least 6 mil in thickness and locate to provide access to the Holding Room from the building exterior. Separate this room from the exterior by a single flap of 6 mil polyethylene sheeting.

Equipment or Material: Take all equipment or material from the work area through the Equipment

Decontamination Unit according to the following procedure:

At wash down station, thoroughly wet-clean contaminated equipment or sealed polyethylene bags and pass into Washroom. When passing equipment or containers into the Washroom, close all doorways of the Equipment Decontamination Unit, other than the doorway between the Wash Down Station and the Washroom. Keep all outside personnel clear of the Equipment Decontamination Unit.

Once inside the washroom, wet-clean the bags and/or equipment and double bag all asbestos waste.

When cleaning is complete pass items into Holding Room. Close all doorways except the doorway between the Holding Room and the Clean Room.

Workers from the building exterior enter Holding Area and remove decontaminated equipment and/or containers for disposal.

Require these workers to wear full protective clothing and wear appropriate respiratory protection. At no time is a worker from an uncontaminated area to enter the enclosure when a removal worker is inside.

At no time should asbestos waste be double bagged inside the work area.

2.5.8. CLEANING OF DECONTAMINATION UNITS:

Clean debris and residue from inside of Decontamination Units on a daily basis or as otherwise indicated on contract drawings. Damp wipe or hose down all surfaces after each shift change. Clean debris from shower pans on a daily basis.

If the Changing Room of the Personnel Decontamination Unit becomes contaminated with asbestos-containing debris, abandon the entire decontamination unit and erect a new decontamination unit. Use the former Changing Room as an inner section of the new Equipment Room.

SIGNS: Post and approximately 20 inches by 14 inches manufactured caution sign at each entrance to the work area displaying the legend with letter sizes and styles of a visibility required by 29 CFR 1926.

2.6 RESPIRATORY PROTECTION

Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910 and 1926.

Require that respiratory protection be used at all times that there is any possibility of disturbance of asbestos-containing materials whether intentional or accidental.

Require that a respirator be worn by anyone in a work area at all times, regardless of activity, during a period that starts with any operation which could cause airborne fibers until the area has been cleared for re-occupancy in accordance with this specification.

Regardless of Airborne Fiber Levels: Require that the minimum level of respiratory protection for floor tile mastic used be full-face piece air purifying respirators with high efficiency filters. Minimal respiratory protection for ceiling scrape shall be PAPR.

FIT TESTING:

Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training set up and administered by a Certified Industrial Hygienist. Fit types of respirators to be actually worn by each individual. Allow an individual to use only those respirators for which he has been trained and fitted.

Upon Each Wearing: Require that each time an air-purifying respirator is put on, it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

2.6.1 WORKER PROTECTION

Provide worker protection as required by the most stringent OSHA and/or EPA standards applicable to the work. The following procedures are minimums to be adhered to regardless of fiber count in the work area.

Each time work area is entered remove all street clothes in the Changing Room of the Personnel Decontamination Unit and put on new disposable coverall, new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.

WITHIN WORK AREA:
Require that workers NOT eat, drink, smoke, chew gum or tobacco in the work area. To eat, chew, drink or smoke, workers shall follow the procedure described above, then dress in street clothes before entering the non-work areas of the building.

CERTIFICATE OF WORKER'S ACKNOWLEDGMENT:

Certificate of Worker Training. After each worker has been included in the Contractor's Respiratory Protection Program, completed the training program, and medical examination secure a fully executed copy of this form.

2.7 AIR MONITORING

Laboratory Testing

All air monitoring clearances will be the responsibility of the owner. The Daily area and OSHA air monitoring shall be the responsibility of the AAC. The AAC shall utilize the owner’s environmental consultant at a pre-determined daily or sampling rate unless otherwise specified.

Written Reports of all monitoring tests and daily activities must be supplied to the Owner and Owner’s Representative on a daily basis.

Phase Contrast Analysis (PCM) shall be completed with written results supplied to the Owner by the Owner’s Representative the following morning or at the start of the next work shift.

Transmission Electron Analysis (TEM) - Clearances - shall be completed and results shall be verbally reported to the Owner by the EC within 24 hours from the time of sample completion. N/A

Personnel Monitoring:

The AAC utilizing the EC will provide all personnel air monitoring required by OSHA during this project. The EC shall be paid for by the AAC. Personnel samples shall be collected on at least 25% of the Contractor's workers during each 8-hour shift.

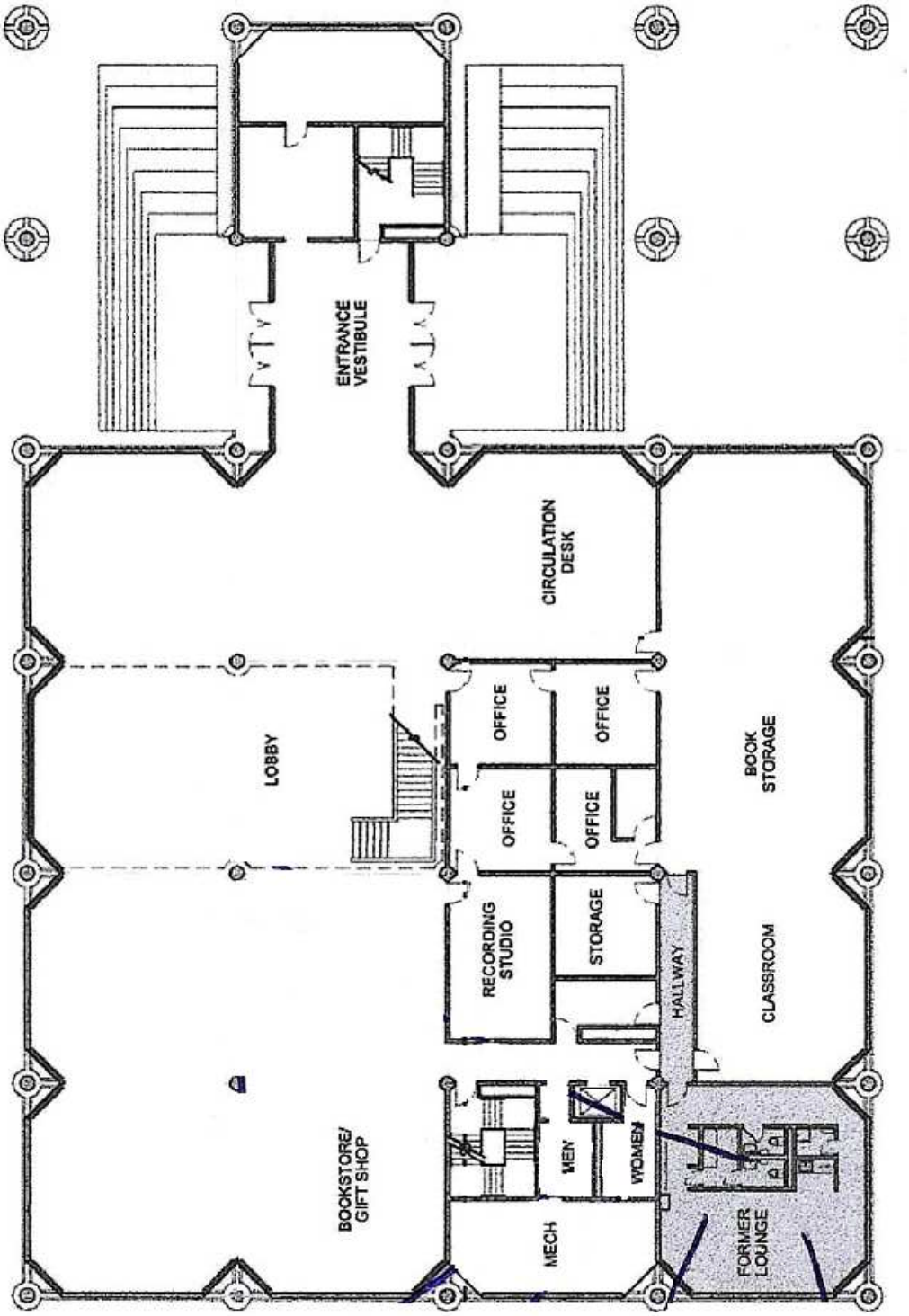
END OF SECTION

Environmental Management Plus, Inc.
P.O. Box 9361
Jackson, Mississippi 39286-9361
Phone: (601) 922-1919 FAX: (601) 922-1979

ASBESTOS ABATEMENT
TOUGALOO COLLEGE
COLEMAN LIBRARY
MUSIC AREA

PROJECT NO.: WTFTOU-ASB
DATE: JUNE 2026
DRAWN BY: R.E.B.
APPROVED BY: A.M.
ABI #1570
EXP. 2/6/27
SCALE: NOT TO SCALE

DRAWING NO. EMP-2367



FIRST FLOOR

LEGEND

ACM – ASBESTOS-CONTAINING MATERIAL
– ACM FLOOR TILE

SECTION 087100
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for hollow metal and wood doors.

B. Thresholds.

C. Gasketing.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealants for setting exterior door thresholds.

B. Section 08 11 13 - Hollow Metal Doors and Frames.

C. Section 08 12 13 - Hollow Metal Frames.

D. Section 08 14 16 - Flush Wood Doors.

E. Section 10 26 00 - Wall and Door Protection: Door and frame protection.

1.03 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. BHMA A156.1 - Standard for Butts and Hinges; 2025.

C. BHMA A156.2 - Bored and Preassembled Locks and Latches; 2022.

D. BHMA A156.3 - Exit Devices; 2025.

E. BHMA A156.4 - Door Closers and Pivots; 2024.

F. BHMA A156.5 - Cylinders and Input Devices for Locks; 2020.

G. BHMA A156.6 - Standard for Architectural Door Trim; 2021.

H. BHMA A156.7 - Template Hinge Dimensions; 2022.

I. BHMA A156.8 - Door Controls - Overhead Stops and Holders; 2021.

J. BHMA A156.16 - Standard for Auxiliary Hardware; 2023.

K. BHMA A156.18 - Standard for Materials and Finishes; 2020.

L. BHMA A156.21 - Thresholds; 2025.

M. BHMA A156.22 - Standard for Gasketing; 2021.

N. BHMA A156.28 - Standard for Recommended Practices for Mechanical Keying Systems; 2023.

O. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.

P. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.

Q. DHI (H&S) - Sequence and Format for the Hardware Schedule; 2019.

R. DHI (KSN) - Keying Systems and Nomenclature; 2019.

S. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

T. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

U. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025, with Amendment (2024).

V. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

W. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.

B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.

C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by affected installers and the following:
   1. Architect.
   2. Installer's Architectural Hardware Consultant (AHC).
   3. Hardware Installer.

D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

E. Keying Requirements Meeting:
   1. Attendance Required:
      a. Contractor.
      b. Installer's Architectural Hardware Consultant (AHC).
      c. Manufacturer Representative / Key System Specialist.
   2. Agenda:
      a. Establish keying requirements.
      b. Verify locksets and locking hardware are functionally correct for project requirements.
      c. Verify that keying and programming complies with project requirements.
      d. Establish keying submittal schedule and update requirements.
   3. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
      a. Flow of traffic and extent of security required.
   4. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
   5. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.

C. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
   2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
      a. Submit in vertical format.
   3. Include complete description for each door listed.

D. Manufacturer's Instructions: Indicate special procedures and perimeter conditions requiring special attention.

E. Supplier's qualification statement.

F. Operation and Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
   1. Include manufacturer's parts lists and templates.

G. Keying Schedule:
   1. Submit three copies of Keying Schedule complying with requirements established during Keying Requirements Meeting unless otherwise indicated.

H. Executed Warranty.

I. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.

J. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

B. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) to assist in work of this section.

C. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

A. See Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.
   1. Closers: Thirty years.
   2. Exit Devices:
      a. Mechanical: Five years.
   3. Locksets:
      a. Mechanical: Ten years.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Locks: Provide a lock for each door, unless it's indicated that lock is not required.
   1. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's Series. As indicated in hardware sets.
   2. Trim: Provide lever handle or pull trim on outside of each lock, unless otherwise indicated.
   3. Strikes:
      a. Finish: To match lock or latch.
      b. Curved-Lip Strikes: Provide as standard, with extended lip to protect frame, unless otherwise indicated.

D. Closers:
   1. Provide door closer on each exterior door, unless otherwise indicated.
   2. Provide door closer on each fire-rated and smoke-rated door.
   3. Spring hinges are not an acceptable self-closing device, unless otherwise indicated.

E. Overhead Stops and Holders (Door Checks):
   1. Provide stop for every swinging door, unless otherwise indicated.
   2. Overhead Stop is not required if positive stop feature is specified for door closer.
   3. Overhead stop is not required if a floor or wall stop has been specified for the door.

F. Thresholds:
   1. Interior Applications: Provide when specified at interior doors for transition between two different floor types, and over building expansion joints, unless otherwise indicated.

G. Weatherstripping and Gasketing:
   1. Provide sound-rated gasketing and automatic door bottom on doors indicated as "Sound-Rated", "Acoustical", or with "Sound Transmission Class (STC) rating".

H. Fasteners:
   1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
      a. Aluminum fasteners are not permitted.
      b. Provide Phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
   2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
      a. Self-drilling (Tek) type screws are not permitted.
   3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
   4. Provide wall grip inserts for hollow wall construction.
   5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
      a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
      b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

A. Provide door hardware products that comply with the following requirements:
   1. Applicable provisions of federal, state, and local codes.
   2. Accessibility: ADA Standards and ICC A117.1.
   3. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
   4. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
   5. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 HINGES

A. Manufacturers: Conventional butt hinges.
   1. BEST, dormakaba Group: www.bestaccess.com/#sle.
   2. PBB.
   3. McKinney.

B. Properties:
   1. Butt Hinges: As applicable to each item specified.
      a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
      b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
      c. Template screw hole locations.
      d. Bearing assembly installed after plating.
      e. Bearings: Exposed fully hardened bearings.
      f. Bearing Shells: Shapes consistent with barrels.
      g. Pins: Easily seated, non-rising pins.
         1) Fully plated hinge pins.

2) Non-Removable Pins: Slotted stainless steel screws.

h. UL 10C listed for fire-resistance-rated doors.

C. Sizes: See Door Hardware Schedule.
1. Sufficient size to allow 180 degree swing of door.

D. Finishes: See Door Hardware Schedule.
1. Fully polished hinges; front, back, and barrel.

E. Grades:
1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
2. Comply with BHMA A156.18.

F. Material: Base metal as indicated for each item by BHMA material and finish designation.

G. Types:
1. Butt Hinges: Include full mortise hinges.

H. Quantities:
1. Butt Hinges: Three (3) hinges per leaves up to 90 inches in height. Add one (1) for each additional 30 inches in height or fraction thereof.
a. Hinge weight and size unless otherwise indicated in hardware sets:
1) For doors up to 36 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.134 inch and a minimum of 4-1/2 inches in height.
2) For doors from 36 inches wide up to 42 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.145 inch and a minimum of 4-1/2 inches in height.
3) For doors from 42 inches wide up to 48 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
4) For doors greater than 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.

I. Applications: At swinging doors.
1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.

J. Products:
1. Butt Hinges:
a. Ball Bearing, Five (5) Knuckle. Best, FBB Series.

2.04 EXIT DEVICES

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. dormakaba: www.dormakaba.com/#sle.
3. Sargent.

B. Properties:
1. Actuation: Push Pad.
2. Chassis:
a. Construction: Investment cast steel, zinc dichromate plated.
b. Compatibility: Standard Stile and Narrow Stile doors.
3. Touchpads: 'T" style metal touchpads and rail assemblies with matching chassis covers end caps.
4. Latch Bolts: Stainless steel deadlocking with 3/4 inch projection using latch bolt.
5. Lever Design: Match project standard lockset trims.
6. Cylinder: Include where cylinder dogging or locking trim is indicated.
7. Strike as recommended by manufacturer for application indicated.
8. Sound dampening on touch bar.
9. Dogging:

a. Non-Fire-Resistance-Rated Devices: Cylinder dogging.
b. Fire-Resistance-Rated Devices: Manual dogging not permitted.

10. Touch bar assembly on wide style exit devices to have a 1/4 inch clearance to allow for vision frames.
11. All exposed exit device components to be of architectural metals and “true” architectural finishes.
12. Handing: Field-reversible.
13. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
14. Vertical Latch Assemblies' Operation: Gravity, without use of springs.

C. Grades: Complying with BHMA A156.3, Grade 1.

D. Standards Compliance:
1. Provide UL (DIR) listed exit device assemblies for fire-resistance-rated doors.
2. Comply with UL 10C.

E. Products:
1. BEST, Precision 2000 Series.

2.05 LOCK CYLINDERS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. Owner Standard.

B. Properties:
1. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
a. Provide cams and/or tailpieces as required for locking devices.
b. Provide cylinders with appropriate format interchangeable cores where indicated.

C. Grades:
1. Standard Security Cylinders: Comply with BHMA A156.5.

D. Material:
1. Manufacturer's standard corrosion-resistant brass alloy.

E. Types: As applicable to each item specified.
1. Standard security small format interchangeable core (SFIC) type cylinders, with seven-pin cores.

F. Products:
1. Rim/mortise. Best, 12E / 1E Series.

2.06 CYLINDRICAL LOCKS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.

B. Properties:
1. Mechanical Locks:
a. Fitting modified ANSI A115.2 door preparation.
b. Door Thickness Fit: 1-3/8 inches to 2 inches thick doors.
c. Construction: Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
1) Through-bolted anti-rotational studs.
2) Lock chassis constructed of steel, stainless steel and zinc components.
d. Cast stainless steel latch retractor with roller bearings.
e. Premium PVD (physical vapor deposition) finishes for consistent durable finish.
f. Bored Hole: 2-1/8 inch diameter.
g. Backset: 2-3/4 inches unless otherwise indicated.
h. Latch: Single piece tail-piece construction.
1) Latchbolt Throw: 1/2 inch, minimum.

i. Cylinders:
1) Cylinder Core Types: Locks capable of supporting manufacturers' cores, as applicable.
(a) Small format interchangeable.
j. Lever Trim:
1) Style: See Door Hardware Schedule.
2) Outside Lever Sleeve: Seamless one-piece construction.
3) Keyed Levers: Removable only after core is removed by authorized control key.

C. Finishes: See Door Hardware Schedule.
1. Core Faces: Match finish of lockset.

D. Grades: Comply with BHMA A156.2 Grade 2.

E. Material: Manufacturer's standard for specified lock.

F. Products:
1. BEST, 7KC Series.

2.07 CLOSERS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. dormakaba: www.dormakaba.com/#sle.
3. LCN.

B. Properties:
1. Surface Mounted Closers: Manufacturer's standard.
a. Construction: DIN226 aluminum alloy.
b. Maximum Projection from Face of Door: 2-1/8 inches.
c. Mechanism: Separate tamper-resistant adjusting valves for closing and latching speeds.
d. Hydraulic Fluid: All-weather type.
e. Arm Assembly: Standard for product specified.
1) Include hold-open, integral stop, or spring-loaded stop feature, as specified in Door Hardware Schedule.
2) Parallel arm to be a heavy-duty rigid arm.
f. Covers:
1) Type: Standard for product selected.
(a) Full. (HD8016)
(b) Slim. (HD7016)
2) Material: Plastic.
3) Finish: Painted.
4) Attachment: Two-point flange mounting, dual-clamp friction fit closer cover.

C. Grades:
1. Closers: Comply with BHMA A156.4, Grade 1.
a. Underwriters Laboratories Compliance:
1) Product Listing: UL (DIR) for use on fire-resistance-rated doors.
(a) UL 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.
b. Testing Standards Compliance: Meeting requirements of UL 10C for positive pressure.

D. Types:
1. Rack-and-pinion, surface-mounted. 1-1/2 inches minimum bore.

E. Options:
1. Delayed action, adjustable with an independent valve.

F. Installation:
1. Mounting: Includes surface mounted and concealed, overhead mounted installations.

2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
3. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.

G. Products:
1. Surface Mounted:
a. BEST, HD8000 Series.
b. BEST, HD7000 Series.

2.08 OVERHEAD STOPS AND HOLDERS

A. Manufacturers:
1. dormakaba: www.dormakaba.com/#sle.
2. Architectural Builders Hardware Mfg. (ABH): www.abhmfg.com/#sle.
3. Rixson.

B. Properties:

C. Sizes: Manufacturer's standard for the application.

D. Finishes:
1. Arms and Brackets: Zinc-plated.

E. Grades: As applicable to item specified.
1. Comply with BHMA A156.8, Grade 1.

F. Material: Base metal as indicated for each item by BHMA material and finish designation.
1. Track Channel: Extruded aluminum alloy.
2. Slide Block: Machined from solid brass alloy.

G. Types:
1. Surface-applied.

H. Products:
1. Surface Overhead Stops and Holders:
a. dormakaba Architectural Hardware 900 Series (Heavy Duty)

2.09 PROTECTION PLATES

A. Manufacturers:
1. Burns.
2. Rockwood.
3. ABH.

B. Properties:
1. Plates:
a. Kick Plates: Provide along bottom edge of push side of each door, where indicated in hardware sets.
1) Size: 10 inches high by 2 inches less than door width (LDW) on push side of door.
b. Mop Plates: Provide along bottom edge of pull side of each door, where indicated in hardware sets.
1) Size: 6 inches high by 1 inch less than door width (LDW) on pull side and 2 inches LDW on push side of door.
c. Edges: Beveled, on four (4) unless otherwise indicated.

C. Grades: Comply with BHMA A156.6.

D. Material: As indicated for each item by BHMA material and finish designation.
1. Metal Properties: Stainless steel.
a. Metal, Standard Duty: Thickness 0.050 inch, minimum.

E. Installation:

1. Fasteners: Countersunk screw fasteners

F. Products:
1. Burns KP50, MP50.

2.10 STOPS AND HOLDERS

A. Manufacturers:
1. Burns.
2. Rockwood.
3. ABH.

B. General: Provide overhead stop/holder when wall or floor stop is not feasible.

C. Grades:
1. Wall Bumpers and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.

D. Material: Base metal as indicated for each item by BHMA material and finish designation.

E. Types:
1. Wall Bumpers: Bumper, concave, wall stop.
2. Floor Stops: Provide dome floor stop, where required.

F. Installation:
1. Non-Masonry Walls: Confirm adequate wall reinforcement has been installed to allow lasting installation of wall bumpers.

G. Products:
1. Wall Bumpers. Burns 575
2. Floor Stops. Burns 510 (Where applicable)

2.11 THRESHOLDS

A. Manufacturers:
1. National Guard Products, Inc (NGP): www.ngpinc.com/#sle.
2. Reese.
3. Pemko.

B. Properties:
1. Threshold Surface: Fluted horizontal grooves across full width.

C. Threshold Grades: Comply with BHMA A156.21.

D. Material: Base metal as indicated for each item by BHMA material and finish designation.
1. Threshold Assemblies: Aluminum.

E. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.
1. Plate Thresholds: Smooth flat top solid metal member.
a. Include matching plate supports where indicated or required by project conditions.

F. Products:
1. NGP 8144S.

2.12 WEATHERSTRIPPING AND GASKETING

A. Manufacturers:
1. National Guard Products, Inc (NGP): www.ngpinc.com/#sle.
2. Reese.
3. Pemko.

B. Properties:
1. Weatherstripping Air Leakage Performance: Not exceeding 0.3 cfm/sq ft of door opening at 0.3 inches of water pressure differential for single doors, and 0.5 cfm/sq ft of door area at 0.3 inches of water pressure differential for double doors for gasketing other than

smoke control, as tested according to ASTM E283/E283M; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

2. For STC rated openings, provide tested seal set including perimeter gasketing, door bottom or door shoe, and threshold as prescribed by manufacturer to achieve desired STC rating.
3. Adhesive-Backed Perimeter Gasketing: Synthetic rubber gasket material applied to frame with self- adhesive.
4. Door Shoes: Thermoplastic elastomer gasket material held in place by metal retainer; mounted to bottom edge of door with screws.
    a. Mounting: Surface mounted on bottom edge of door. Coordinate with door manufacturer for installation requirements.

C. Grades: Comply with BHMA A156.22.

D. Products:
1. Sound Seals: See Door Hardware Schedule.
2. Door Bottom Seals:
    a. Door Shoes: See Door Hardware Schedule.

2.13 MISCELLANEOUS ITEMS

A. Manufacturers:
1. Burns Manufacturing, Inc: www.burnsmfg.com/#sle.
2. Rockwood.
3. Don-Jo.

B. Properties:
1. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
    a. Single Door: Provide three on strike jamb of frame.
    b. Pair of Doors: Provide two on head of frame, one for each door at latch side.
    c. Material: Rubber, gray color.

C. Products:
1. Silencers
    a. Burns, 500.

2.14 KEYS AND CORES

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. Owner Standard.

B. Properties: Complying with guidelines of BHMA A156.28.
1. Provide small format interchangeable core. (BASIS OF DESIGN)
2. Provide Patented CORMAX keys and cores. (BASIS OF DESIGN)
3. Provide keying information in compliance with DHI (KSN) standards.
4. Keying Schedule: Arrange for a keying meeting, with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements.
5. Keying: Grand master keyed. Verify specific requirements with Owner
6. Include construction keying and control keying with removable core cylinders.
7. Key to existing keying system or provide new system as required by Owner. Verify requirements with Owner prior ordering product or conducting keying meeting.
8. Supply keys in following quantities:
    a. Master Keys: 4 each.
    b. Construction Master Keys: 6 each.
    c. Construction Keys: 15 each.
    d. Construction Control Keys: 2 each.

e. Control Keys if New System: 2 each.
f. Change Keys: 2 each for each keyed core.

9. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
10. Deliver keys with identifying tags to Owner by security shipment direct from manufacturer.
11. Permanent Keys and Cores: Stamped with applicable key marking for identification. Do not include actual key cuts within visual key control marks or codes. Stamp permanent keys "Do Not Duplicate."
12. Include installation of permanent cores and return construction cores to hardware supplier. Construction cores and keys to remain property of hardware supplier.

C. Products:
1. Patented:
a. Best CORMAX. (BASIS OF DESIGN)

2.15 FINISHES

A. Finishes: Identified in Hardware Sets.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

B. Correct all defects prior to proceeding with installation.

C. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Install hardware using the manufacturer’s fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use “Riv-Nuts” or similar products.

C. Use templates provided by hardware item manufacturer.

D. Do not install surface mounted items until application of finishes to substrate are fully completed.

E. Wash down masonry walls and complete painting or staining of doors and frames.

F. Complete finish flooring prior to installation of thresholds.

G. Door Hardware Mounting Heights: Hardware to be mounted at manufacturer's recommended mounting height and in compliance with ADA requirements.

H. Include in installation for existing doors and frames any necessary field modification and field preparation of doors and frames for new hardware. Provide necessary fillers, reinforcements, and fasteners for mounting new hardware and to cover existing door and frame preparations.

3.03 FIELD QUALITY CONTROL

A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.

3.04 ADJUSTING

A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

B. Adjust hardware for smooth operation.

C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.

B. Clean adjacent surfaces soiled by hardware installation activities.

C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

3.06 PROTECTION

A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

B. Do not permit adjacent work to damage hardware or finish.

3.07 HARDWARE SETS

Manufacturer List

Code:	Name:
BES	BEST
PRE	BEST (Precision)
BRN	Burns Manufacturing
DKA	dormakaba Architectural
NGP	National Guard Products

Option List

Code:	Name:
S3	ANSI 4-7/8” Strike
PATD	Patented Keyed Core (CORMAX)
B4E Heavy	Heavy Beveled Edges
NRP	Non-Removable Pin
CSK	Countersunk Holes
CD	Cylinder Dogging
S300_Strike	Standard Rim Strike
10-24 SS MS/LA	10-24 Stainless Steel Machine Screw/Lead Anchor
LAR	Length As Required
RP3	Ring Package
RP	Ring Package

Finish List

Code:	Name:
A	Anodized Aluminum
C	Charcoal
US27	Mill Aluminum
626	Chromium plated, satin
630	Satin Stainless Steel
652	Chromium plated, satin
689	Aluminum

HARDWARE SETS

Set #1 - NEW.INT.INSW.HM
Doors: 204B, 205A

3	Hinge	FBB179 4.5X4.5	652	BES
1	Cylindrical Lock	7KC 3 7 D 16 D S3 PATD	626	BES
1	Door Closer	HD7016 ARP	689	BES
1	Kick Plate	KP50 CSK B4E Heavy 10" Door Width less 2"	630	BRN
1	Wall Stop	575	630	BRN
3	Silencers	500	Gray	BRN

NOTE: New hollow metal door, frame, and hardware.

Set #2 - NEW.INT.INSW.HM
Doors: 102A

3	Hinge	FBB179 4.5X4.5	652	BES
1	Cylindrical Lock	7KC 3 7 D 16 D S3 PATD	626	BES
1	Mop Plate	MP50 CSK B4E Heavy 6" Door Width less 1"	630	BRN
1	Wall Stop	575	630	BRN
3	Silencers	500	Gray	BRN

NOTE: New hollow metal door, frame, and hardware.

Set #3 - NEW.INT.INSW.HM / STC
Doors: 203A

3	Hinge	FBB168 4.5x4.5	652	BES
1	Cylindrical Lock	7KC 3 7 R 16 D S3 PATD	626	BES
1	Door Closer	HD7016 ARP	689	BES
1	Kick Plate	KP50 CSK B4E Heavy 10" Door Width less 2"	630	BRN
1	Wall Stop	575	630	BRN
1	Gasketing	5075 Head & Jambs (2)	C	NGP
1	Gasketing	5060 Head & Jambs (2)	C	NGP
2	Gasketing	60FP		NGP
1	Door Shoe	12T6 X STC-FH LAR	US27	NGP
1	Threshold	8144 LAR (10-24 SS MS/LA)	A	NGP

NOTE: New hollow metal door, frame, and hardware. Mount gasketing and threshold per National Guard Products' recommendation (NGP Seal Set #3).

Set #4 - NEW.INT.OS.HM. / STC
Doors: 201A, 201B

3	Hinge	FBB168 NRP	652	BES
1	Exit Device	2103 CD 4903B S300	630	PRE
1	Rim Cylinder	12E7 2 RP PATD	626	BES
1	Mortise Cylinder	1E7 4 RP3 PATD	626	BES

1	Door Closer	HD8016 PH	689	BES
1	Kick Plate	KP50 CSK B4E Heavy 10" Door Width less 2"	630	BRN
1	Wall Stop	575	630	BRN
1	Gasketing	5075 Head & Jambs (2)	C	NGP
1	Gasketing	5060 Head & Jambs (2)	C	NGP
2	Gasketing	60FP		NGP
1	Door Shoe	12T6 X STC-FH LAR	US27	NGP
1	Threshold	8144 LAR (10-24 SS MS/LA)	A	NGP

NOTE: New hollow metal door, frame, and hardware. Mount gasketing and threshold per National Guard Products' recommendation (Seal Set #3).

Set #5 – NOT USED

Set #6 - EXISTING.INT.INSW.
Doors: 103A

3	Hinge	Existing to Remain		
1	Cylindrical Lock	7KC 3 7 R 16 D S3 PATD	626	BES
1	Door Closer	HD7016 ARP	689	BES
1	Kick Plate	KP50 CSK B4E Heavy 10" Door Width less 2"	630	BRN
1	Wall Stop	575	630	BRN
1	Gasketing	5075 Head & Jambs (2)	C	NGP

NOTE: Existing door, frame to remain. Existing hinges to remain at current locations unless conditions require hinge(s) to be replaced. Prep door and frame as required to install new hardware.

Set #7 - EXISTING.INT.OS.
Doors: 103C

3	Hinge	Existing to Remain		
1	Cylindrical Lock	7KC 3 7 R 16 D S3 PATD	626	BES
1	Door Closer	HD7016 ARP	689	BES
1	Kick Plate	KP50 CSK B4E Heavy 10" Door Width less 2"	630	BRN
1	Wall Stop	575	630	BRN
3	Silencers	500	Gray	BRN

NOTE: Existing door, frame to remain. Existing hinges to remain at current locations unless conditions require hinge(s) to be replaced. Prep door and frame as required to install new hardware.

Set #8 - EXISTING TO REMAIN
Doors: 103B, 103D, 103E, 103F, 204A

NOTE: Existing door, frame, and hardware to remain.

OPENING LIST:

OPENING #	SET	RATING
102A	2	
103A	6	
103B	8	
103C	7	
103D	8	
103E	8	
103F	8	
201A	4	
201B	4	
203A	3	
204A	8	
204B	1	
205A	1	

END OF SECTION

SECTION 122413

ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Manually operated, single-roller shades.

B. Related Requirements:

1. Section 055000 "Metal fabrications" for aluminum framing for mounting roller shades and accessories.
2. Section 079200 "Joint Sealants" for sealing the perimeters of installation accessories for light-blocking shades with a sealant.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.

B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.

C. Samples: For each exposed product and for each color and texture specified, 10 inches (250 mm) long.

D. Samples for Initial Selection: For each type and color of shadeband material.

1. Include Samples of accessories involving color selection.

E. Samples for Verification: For each type of roller shade.

1. Shadeband Material: Not less than 3 inches (76 mm) square. Mark interior face of material if applicable.
2. Roller Shade: Full-size operating unit, not less than 16 inches (400 mm) wide by 36 inches (900 mm) long for each type of roller shade indicated.
3. Installation Accessories: Full-size unit, not less than 10 inches (250 mm) long.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer, a company having at least five years’ experience successfully installing the specified product.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For roller shades to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain roller shades from single source from single manufacturer.

2.2 MANUALLY OPERATED, SINGLE-ROLLER SHADES

A. Basis of Design: UrbanShade Manual with Room Darkening Accessories, manufactured by Mecho Shade; www.mechoshade.com

B. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.

1. Bead Chains: Nickel-plated metal or Stainless steel.

    a. Loop Length: Full length of roller shade.
    b. Limit Stops: Provide upper and lower ball stops.
    c. Chain-Retainer Type: Chain tensioner, sill mounted.

2. Spring Lift-Assist Mechanisms: Manufacturer's standard for balancing roller shade weight and for lifting heavy roller shades.

    a. Provide for shadebands that weigh more than 10 lb (4.5 kg) or for shades as recommended by manufacturer, whichever criterion is more stringent.

C. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.

1. Roller Drive-End Location: Right side of interior face of shade.
2. Direction of Shadeband Roll: Regular, from back (exterior face) of roller.
3. Shadeband-to-Roller Attachment: Manufacturer's standard method.

D. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.

E. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.

F. Shadebands:

1. Shadeband Material: Light-blocking fabric.
2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.

    a. Type: Exposed with endcaps and integral light seal at bottom where it meets the sill.
    b. Color and Finish: Clear anodized.

G. Installation Accessories:

1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller endcaps without exposed fasteners.

    a. Shape: L-shaped.
    b. Height: Manufacturer's standard height required to conceal roller and shadeband assembly when shade is fully open, but not less than 4 inches (102 mm)] [3 inches (76 mm).

2. Endcap Covers: To cover exposed endcaps.

3. Side Channels: With light seals and designed to eliminate light gaps at sides of shades as shades are drawn down. Provide side channels with shadeband guides or other means of aligning shadebands with channels at tops.
4. Bottom (Sill) Channel or Angle: With light seals and designed to eliminate light gaps at bottoms of shades when shades are closed.
5. Installation Accessories Color and Finish: Clear anodized.

2.3 SHADEBAND MATERIALS

A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

B. Light-Blocking Fabric: Opaque fabric, stain and fade resistant.

1. Source: Roller shade manufacturer.
2. Type: Fiberglass textile with PVC film bonded to both sides
3. Thickness: Manufacturer’s standard
4. Weight: Manufacturer’s standard
5. Roll Width: 78 inches. Contractor responsible to field verify the width of the material prior to fabrication.
6. Orientation on Shadeband: Up the bolt.
7. Features: Antistatic treatment.
8. Color: As selected by Architect from manufacturer's full range.

2.4 ROLLER SHADE FABRICATION

A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.

B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):

1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch (6 mm) per side or 1/2-inch (13-mm) total, plus or minus 1/8 inch (3.1 mm). Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm).

C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible, except as follows:

1. Vertical Shades: Where width-to-length ratio of shadeband is equal to or greater than 1:4, provide battens and seams at uniform spacings along shadeband length to ensure shadeband tracking and alignment through its full range of movement without distortion of the material.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.

1. Opaque Shadebands: Located so shadeband is not closer than 2 inches (51 mm) to interior face of glass. Allow clearances for window operation hardware.

B. Roller Shade Locations: As indicated on Drawings.

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

A. Clean roller shade surfaces, after installation, according to manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.

C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION

BASE BID SCOPE OF WORK (REFER TO DRAWINGS AND SPECIFICAITONS FOR COMPLETE DESCRIPTION)

1. SITE
   A. PROTECT EXISTING BUILDINGS, FEATURES AND MATERIALS, AND LANDSCAPING.

2. BALLARD HALL
   A. EXTERIOR CONSTRUCTION
   - WOOD SIDING & TRIM:
     - REMOVE PEELING PAINT, AND CLEAN AND PREPARE SURFACES OF WOOD SIDING AND TRIM. REFER TO SPECS & THE SECRETARY OF THE INTERIOR'S STANDARDS FOR ACCEPTABLE PAINT REMOVABLE METHODS.
     - REPAIR AND REPLACE ROTTEN, LOOSE, AND BOWED WOOD SIDING AND TRIM, AND SEAL ALL GAPS AND CRACKS BETWEEN BOARDS. REFER TO SPECS & THE SECRETARY OF THE INTERIOR'S STANDARDS FOR ACCEPTABLE REPAIR METHODS.
     - PRIME AND PAINT. REFER TO SPECS & THE SECRETARY OF THE INTERIOR'S STANDARDS FOR ACCEPTABLE PAINT APPLICATION METHODS.
   - WINDOWS
     - CLEAN, PRIME, AND PAINT WINDOWS BEING CAREFUL NOT TO DAMAGE THE WINDOW COMPONENTS.
   - FOUNDATION
     - REMOVE AND THEN REBUILD FALLING MASONRY FOUNDATION WALL INFILL AT ADDITION.
     - FILL IN MISSING MASONRY TO MATCH EXISTING IN FOUNDATION WALLS.

   B. INTERIOR DEMOLITION
   - LAT CEILING SYSTEM
     - DEMOLISH EXISTING LAT CEILING SYSTEM IN AUDITORIUM.

   C. INTERIOR CONSTRUCTION
   - LAT CEILING SYSTEM
     - INSTALL NEW LAT CEILING SYSTEM IN AUDITORIUM. (1)

   D. HVAC
   - EXTERIOR
     - REMOVE EXISTING CONDENSING UNITS SERVING 2ND FLR, AND ASSOCIATED SYSTEMS AS SHOWN ON MECH DRAWINGS.
     - DEMOLISH EXISTING CONCRETE SUPPORT PADS AND PROVIDE AND CONSTRUCT NEW PAD AS RECOMMENDED BY MANUFACTURER.
     - PROVIDE & INSTALL NEW CONDENSING UNITS AS SHOWN ON MECH DRAWINGS.
   - INTERIOR (HVAC MEZZANINE)
     - DEMOLISH EXISTING GAS FURNACE SPLIT SYSTEM AND ASSOCIATED SYSTEMS.
     - INSTALL NEW FURNACE, DEHUMIDIFIER AND ASSOCIACTED SYSTEMS AS SHOWN ON MECH DRAWINGS.
     - DEMOLISH EXISTING WOOD SUPPORT PLATFORM/STAND & CONSTRUCT A NEW STRUCTURALLY ADEQUATE SUPPORT STAND AS SHOWN ON MECH DRAWINGS.

   E. ELEC
   - ELECTRICAL DEMOLITION
     - DEMOLISH EXISTING LIGHT FIXTURES IN AUDITORIUM AS SHOWN ON ELEC DRAWINGS.
   - ELECTRICAL CONSTRUCTION
     - INSTALL NEW LIGHT FIXTURES IN AUDITORIUM AS SHOWN ON ELEC DRAWINGS.
     - PROVIDE AND INSTALL NEW ELECTRICAL CONNECTIONS FOR NEW HVAC EQUIPMENT.

GENERAL NOTES (APPLICABLE TO ALL ASPECTS OF THE WORK)

A. BALLARD HALL IS A CONTRIBUTING STRUCTURE WITHIN THE TOUGALOO COLLEGE NATIONAL REGISTER HISTORIC DISTRICT. ALL WORK ON BALLARD HALL IS TO BE PERFORMED IN ACCORDANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES: GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS.

B. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE CONFIGURATION & CONDITION OF ALL EXISTING BUILDING ELEMENTS, THEIR CHARACTERISTICS & CONFIGURATION & SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL NOTED DIMENSIONS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

D. UNLESS WHERE NOTED OTHERWISE, WHERE THE CONSTRUCTION DOCUMENTS REQUIRE THE REPLACEMENT AND/OR REPAIR, SUPPLEMENT OR REPLACE EXISTING MATERIAL, THE NEW MATERIALS SHALL MATCH THE ORIGINAL IN SIZE, DESIGN, AND SPECIES OR TYPE. SUCH NEW MATERIALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEING INSTALLED.

E. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL PROTECTION OF ALL EXISTING MATERIALS, ELEMENTS & COMPONENTS REMAINING IN PLACE DURING THE COURSE OF THE WORK. SHOULD ANY SUCH MATERIALS BE DAMAGED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE OWNER AS SOON AS POSSIBLE. AFTER OBSERVING & CONSIDERING THE SITUATION, THE ARCHITECT & OWNER WILL DETERMINE AN APPROPRIATE COURSE OF ACTION THAT BEST PRESERVES THE BUILDING'S ARCHITECTURAL CHARACTER & HISTORICAL DESIGNATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE THE DAMAGED MATERIAL, ELEMENT OR COMPONENT AS SPECIFIED BY THE ARCHITECT AT NO COST TO THE OWNER.

F. SALVAGED MATERIALS:
   F.A. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY EXISTING MATERIALS OR ELEMENTS THAT MUST BE REMOVED TO FACILITATE THE WORK. SUCH MATERIALS AND ELEMENTS SHALL BE CAREFULLY SALVAGED FOR FUTURE RE-INSTALLATION.
   F.B. CAREFULLY SALVAGE ANY EXISTING MATERIALS THAT ARE REMOVED DURING CONSTRUCTION.
   F.C. ALL UNUSED SALVAGED MATERIAL SHALL BE LABELED BY ORIGINAL LOCATION AND RETURNED TO THE OWNER.

G. WHEN DETERIORATED MATERIALS ARE UNCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORKING IN THE IMMEDIATE AREA AND NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL RESUME WORK ONLY AFTER RECEIVING DIRECTION FROM THE ARCHITECT.

H. REMOVE PAINT FROM FLAT SURFACES ONLY BY HAND SCRAPING. REMOVE PAINT FROM CARVED OR SHAPED ORNAMENTAL MOULDING, TRIM + BRACKETS WITH CHEMICAL STRIPPERS AND ELECTRIC HEAT SOURCES ONLY. DO NOT SAND BLAST, PRESSURE WASH, OR POWER SAND. REFER TO PRESERVATION BRIEFS 10: EXTERIOR PAINT PROBLEMS ON HISTORIC WOODWORK FOR GUIDANCE ABOUT PAINT REMOVAL. IN ALL INSTANCES, PAINT REMOVAL SHALL BE EXECUTED WITH APPROPRIATE CARE AND GENTLENESS TO PROTECT & PRESERVE THE WOOD SURFACES.

(1)

3. COLEMAN LIBRARY

   A. INTERIOR DEMOLITION
   - PARTITIONS & BUILT-IN CASEWORK
     - DEMOLISH AND/OR MODIFY EXISTING PARTITIONS AS INDICATED ON PLANS.
     - DEMOLISH EXISTING BUILT-IN CASEWORK AS INDICATED ON PLANS.
   - CEILINGS
     - DEMOLISH EXISTING EXPANDED METAL CEILING PANEL SYSTEM AND ASSOCIATED LIGHT FIXTURES AS INDICATED ON PLANS.
   - FLOORING
     - ABATE EXISTING ASBESTOS TILE FLOORING AND PREPARE SUBFLOOR FOR NEW FLOOR FINISH IN AREAS INDICATED ON PLANS.
     - REMOVE EXISTING CARPET TILE AS INDICATED ON PLANS TO COMPLETE MODIFICATIONS TO 2ND FLOOR.
   - DOORS
     - DEMOLISH AND MODIFY EXISTING DOORS, FRAMES, AND HARDWARE AS NOTED ON PLANS.

   B. INTERIOR CONSTRUCTION
   - PARTITIONS
     - CONSTRUCT NEW PARTITIONS AS INDICATED ON PLANS.
   - CEILINGS
     - INSTALL NEW LAT CLG SYSTEM AS INDICATED ON PLANS
     - CLOSE OPENINGS IN BEAMS ABOVE CEILING TO SOUNDPROOF AREAS.
   - FLOORING
     - INSTALL NEW FLOOR FINISHES AS SCHEDULED IN AREAS INDICATED ON PLANS.
   - DOORS
     - PROVIDE AND INSTALL NEW DOORS, FRAMES, AND HARDWARE AS SCHEDULED.

   C. HVAC
   - CREATE MODIFICATIONS TO EXISTING HVAC SYSTEM AND PROVIDE INSTALL NEW HVAC EQUIPMENT, DUCTING, AND CONNECTIONS AS SHOWN ON HVAC DRAWINGS.

   D. ELEC
   - ELECTRICAL DEMOLITION
     - DEMOLISH EXISTING LIGHT FIXTURES AND ASSOCIATED POWER CONDUIT AS INDICATED ON ELEC DRAWINGS.
   - ELECTRICAL CONSTRUCTION
     - PROVIDE AND INSTALL NEW LIGHTING FIXTURES AS SHOWN ON ELEC DRAWINGS.
     - PROVIDE AND INSTALL NEW POWER AND DATA CONNECTIONS AS INDICATED ON ELEC DRAWINGS.

   E. PLUMBING
   - PLUMBING DEMOLITION
     - DEMOLISH EXISTING PLUMBING FIXTURES AND ACCESSORIES WITHIN 1ST FLOOR RESTROOM AS SHOWN ON PLUMBING DRAWINGS.
   - PLUMBING CONSTRUCTION
     - INSTALL NEW PLUMBING FIXTURES AND ACCESSORIES IN 1ST FLOOR RESTROOM AS SHOWN ON PLUMBING DRAWINGS.

(1)

ALTERNATES LIST:

ALTERNATE NO. 1 (ADD)
ADD TO THE BASE BID ALL MATERIALS, LABOR, OVERHEAD AND PROFIT TO PROVIDE AND INSTALL SOUNDPROOF ROOMS AND NEW LAT CLG SYSTEMS AS SHOWN ON SHEETS A2.4 & A2.5.

ALTERNATE NO. 2 (ADD)
ADD TO THE BASE BID ALL MATERIALS, LABOR, OVERHEAD AND PROFIT TO PROVIDE AND INSTALL SOUND ABSORBER/DIFFUSER PANELS AS SHOWN ON SHEETS A2.4 & A2.5.

ALTERNATE NO. 3 (ADD)
REPLACE PACU UNITS SERVING 1ST FLOOR OF BALLARD HALL – SEE MECH & ELEC DWGS.

1 VICINITY MAP
SCALE: 1" = 300'

DEPARTMENT OF MUSIC UPGRADES
COLEMAN LIBRARY • BALLARD HALL
TOUGALOO COLLEGE
West County Line Rd., Tougaloo, MS 39174

DRAWING INDEX

ARCHITECTURAL

(1)

MECHANICAL

(1)

PLUMBING

ELECTRICAL

(1)

(1)

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WEST COUNTY LINE RD.
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MECHANICAL ENGINEER
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(601) 363-3552

ELECTRICAL ENGINEER
THE POWER SOURCE
305 HIGHWAY 51
RIDGELAND, MISSISSIPPI 39157
(601) 605-4820

GRAPHIC LEGEND

- DTL/SECTION NO. / SHEET NUMBER
- WALL SECTION
- ELEVATION
- DETAIL CALLOUT
- INT ELEVATION
- ROOM NAME / ROOM NUMBER (ROOM 100)
- DOOR TAG (100A)
- WINDOW TAG (A)
- WALL TYPE (A)
- KEYED NOTE (8)
- WORK POINT
- (100.00) EXIST SPOT ELEV.
- 100.00 SPOT ELEVATION

ABBREVIATIONS

ADJ	ADJUST(ABLE)/ADJACENT	GB	GRADE BEAM
AFF	ABOVE FINISH FLOOR	GYP	GYPSUM
ALT	ALTERNATE	HORZ	HORIZONTAL
ALUM	ALUMINUM	INSUL	INSULATION
∠	ANGLE	JB	JUNCTION BOX
BD	BOARD	JT	JOINT
BET	BETWEEN	LCC	LEAD COATED COPPER
BKR. ROD	BACKER ROD	LH	LEADER HEAD
BOT	BOTTOM	LOC	LOCATION
BYND	BEYOND	MANUF	MANUFACTURER
CB	CATCH BASIN	MAS	MASONRY
CIP	CAST-IN-PLACE	MECH	MECHANICAL
℄	CENTERLINE	MIDPT	MIDPOINT
CLR	CLR.	MTD.	MOUNTED
CMU	CONCRETE MAS. UNIT	MTL	METAL
CNTRL	CONTROL	NO	NUMBER
CNTRPT	CENTERPOINT	O.C.	ON CENTER
COL	COLUMN	O.H.	OPPOSITE HAND
CONC	CONCRETE	PED	PEDESTAL
CONT	CONTINUOUS	ℙ	PLATE
COORD.	COORDINATE	POLYISO	POLYISOCYANURATE
CPT	CARPET	PT/PTD	PAINT/PAINTED
CJ	CONSTRUCTION JOINT	REQ'D	REQUIRED
CT	CERAMIC TILE	RD	ROOF DRAIN
DET	DETAIL(S)	RFG	ROOFING
DTL/DTLS	DETAIL(S)	SPEC(S)	SPECIFICATION(S)
DP	DAMP PROOFING	ST	STORAGE
DS	DOWNSPOUT	STL	STEEL
EA	EACH	STN	STAINLESS
ELEC	ELECTRICAL	STRUCT	STRUCTURAL
ELEV	ELEVATION	T	TOP
EXP	EXPANSION	TRTD	TREATED
F.V.	FIELD VERIFY	TYP	TYPICAL
FIN	FINISH	VERT	VERTICAL
FLR	FLOOR	WD.	WOOD
		W.P.	WORKING POINT

BID DOCUMENTS

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DATE	NO.
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REGISTERED ARCHITECT Charles Lawson Newman STATE OF MISSISSIPPI 06/11/26

REGISTERED ARCHITECT Wesley A. Harp 4536 STATE OF MISSISSIPPI 06/11/2026

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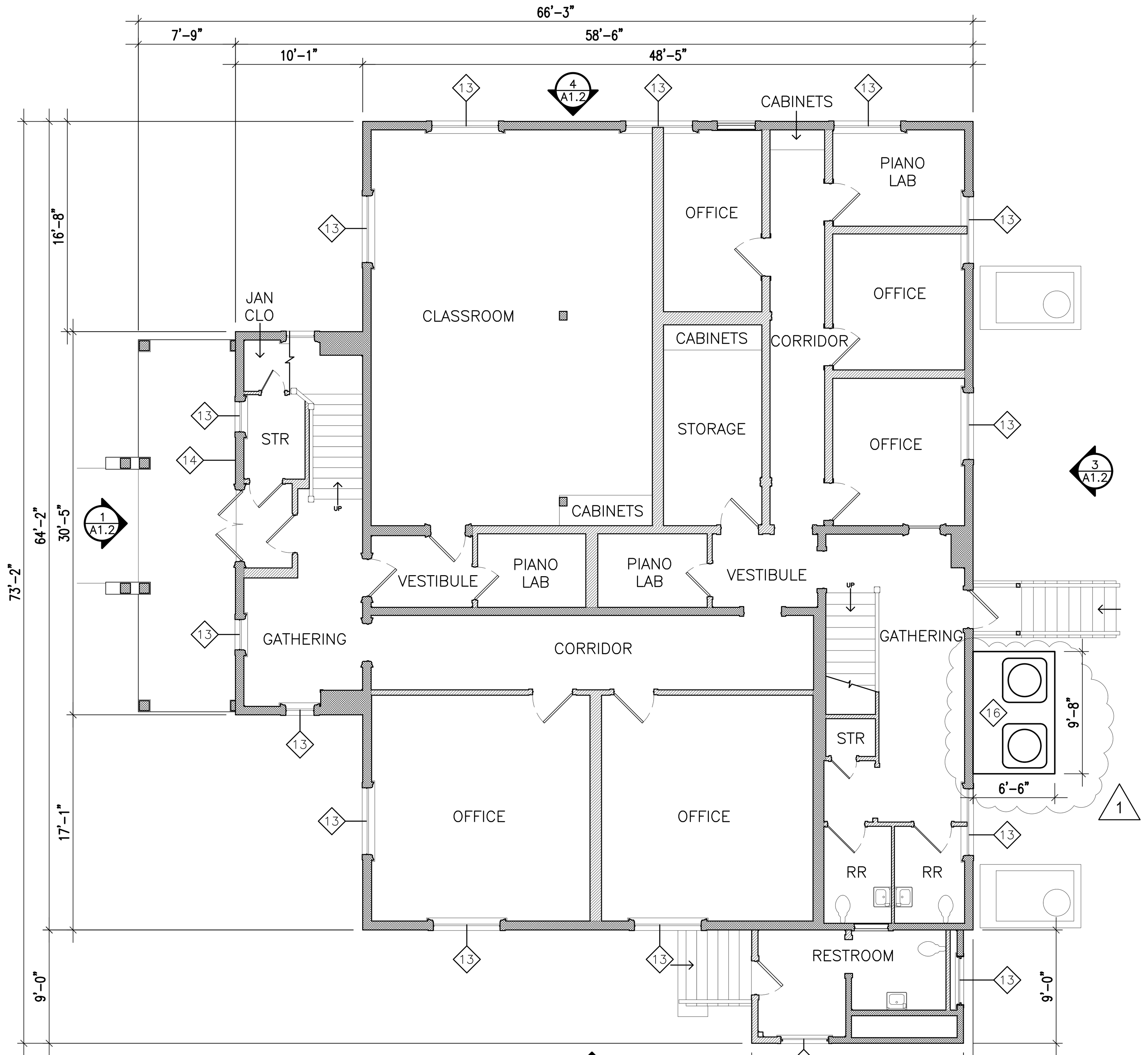
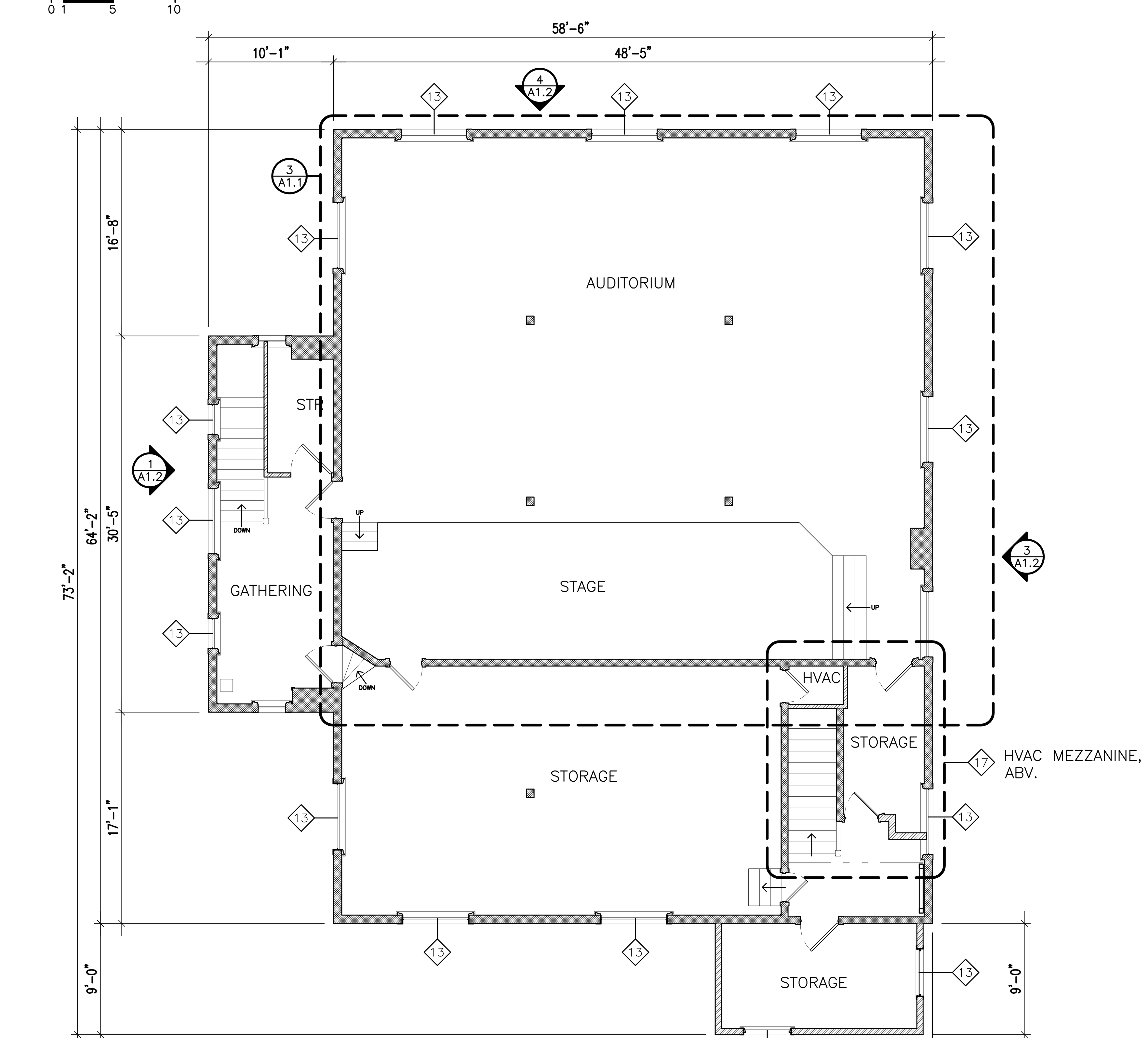
Job: 2506
Sheet: T1.0R
Addendum No.1, Attachment 6



1 BALLARD HALL – 1ST FLOOR PLAN

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



2 BALLARD HALL – 2ND FLOOR PLAN

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

ROOM NAME	FLR FIN	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING (HGT.)	REMARKS
AUDITORIUM	N/A	N/A	N/A	N/A	N/A	N/A	AU#1 (14'–6")	–

FINISH LEGEND:

AU#1	ACOUSTIC CLG TILE UNIT
AU#2	ACOUSTIC CLG TILE UNIT
CONC	CONCRETE
PT	CARPET
CT	CERAMIC TILE
GB	GYPSUM BOARD
PT	PAINT
RB	RUBBER BASE

FINISH REMARKS:

1. EPOXY PAINT
2. PT BOTH INT. & EXT. OF NEW PARTITION WALLS
3. SEE SHEETS A2.4 & A2.5 FOR ALTERNATES

GENERAL FINISH NOTES:

A. PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS (OWNER & CONTRACTOR SUPPLIED). G.C. SHALL COORDINATE THE INSTALLATION OF BLKG FOR OWNER SUPPLIED EQUIPMENT W/ OWNER PRIOR TO INSTALL.

B. TYP, NEW PARTITIONS ARE DIMENSIONED FROM FACE OF WALL. FURRED WALLS & PLUMBING WALLS ARE DIMENSIONED FROM FACE TO FACE OF WALL FINISH OR FROM STRUCT. REF POINT TO FIN. FACE. WHERE PARTITIONS ARE NOT LOCATED BY DIMENSIONS ON THE PLANS, THE LOCATION SHALL BE DETERMINED BY THE INDICATED RELATIONSHIP TO COLUMN FACE, COLUMN CENTER LINE, OR OTHER FIXED PARTITIONS.

GENERAL FINISH NOTES (CONT):

C. REFER TO ELEC SHTS FOR LOCATION OF ILLUMINATED EXIT SIGNAGE.

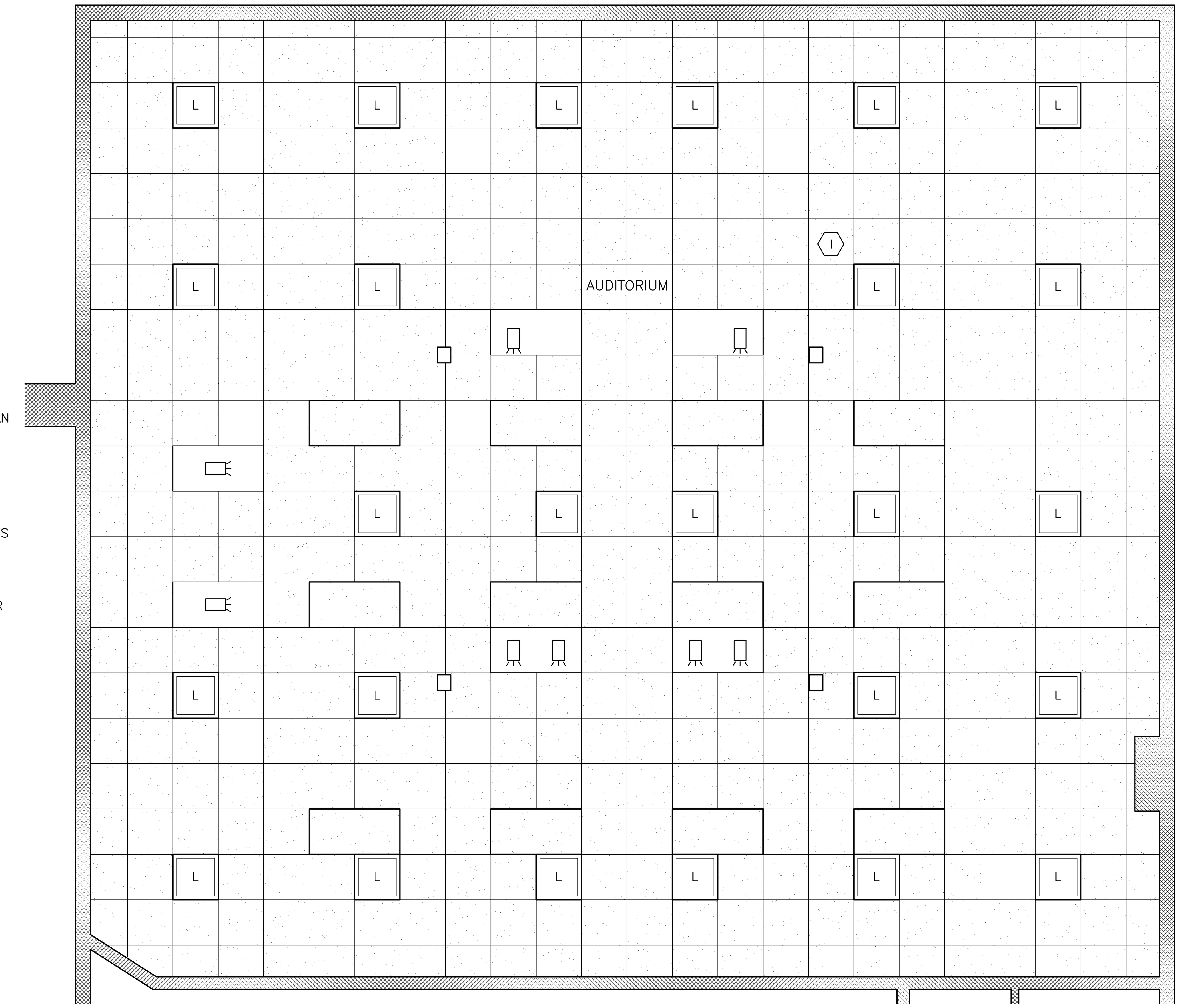
D. SEE THIS SHEET FOR PARTITION TYPE DEFINITIONS.

E. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL MATERIALS IN THE WORK AREA.

F. ALL GYPSUM WALL BOARD AND MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE 5/8" TYPE "X," UNLESS NOTES OTHERWISE.

G. REFER TO SPECS FOR PREPARATION & PRIMER REQ. FOR EPOXY PAINTED SURFACES TO BE RECOATED W/ EPOXY PAINT.

H. WHERE NEW EPOXY PAINT IS TO BE INSTALLED, CONTINUE EPOXY PAINT FROM ALL NEW FINISHES TO NEXT INSIDE CORNER OR WALL/CLG INTERSECTION.



3 BALLARD HALL – 2ND FLR – THEATRE REFLECTED CEILING PLAN – REMODEL

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

BALLARD HALL – GENERAL NOTES

A. BALLARD HALL IS A CONTRIBUTING STRUCTURE WITHIN THE TOUGALOO COLLEGE NATIONAL REGISTER HISTORIC DISTRICT. ALL WORK ON BALLARD HALL IS TO BE PERFORMED IN ACCORDANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES: GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS.
B. PROTECT ALL EXISTING USABLE MATERIALS LEFT IN PLACE FOR REUSE & INCORPORATION IN THE FINISHED PROJECT.
C. REMOVE DEBRIS & TRASH FROM AROUND BUILDING AS REQ'D TO FACILITATE THE WORK. SALVAGE & STORE ALL BUILDING MATERIALS, TOOLS, UTENSILS, & SIMILAR ARTIFACTS FOR USE BY THE OWNER. REMOVE DEBRIS & TRASH FROM SITE ONLY AFTER RECEIVING PERMISSION FROM ARCHITECT.
D. PROTECT ALL SITE FEATURES SUCH AS WALKS, STEPS, DRIVEWAYS, WALLS, PLANTERS, FENCES, ETC. REPAIR OR REPLACE DAMAGED SITE FEATURES AS REQ'D TO MATCH ORIGINAL MATERIAL, CONSTRUCTION, & FINISH.
E. PROTECT FROM DAMAGE ALL TREES & VEGETATION AROUND THE PROJECT SITE. REPLACE ANY TREES OR VEGETATION DAMAGED DURING THE COURSE OF THE WORK W/ HEALTHY PLANTS OF SAME SPECIES & SIMILAR SIZE.
F. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO CONSTRUCTION & FIELD VERIFYING ALL ASPECTS OF THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS & THE EXIST. CONDITIONS.
G. ANY USABLE MATERIALS THAT MUST BE REMOVED DURING THE COURSE OF THE WORK SHALL BE REMOVED CAREFULLY & SAVED FOR RE–INSTALLATION IN ITS ORIGINAL LOCATION. THE CONTRACTOR SHALL SECURE THE APPROVAL OF THE ARCHITECT BEFORE DESTROYING ANY MATERIALS IN QUESTION.
H. WHERE EXISTING NAILS IN GOOD CONDITION PROTRUDE FROM SURFACE OF WOOD, DRIVE THE NAILS IN SECURELY. REMOVE ANY PROTRUDING RUSTED NAILS & DRIVE NEW NAILS NEXT TO EXISTING HOLES TO RE–SECURE WOOD. FILL HOLES W/ WOOD PUTTY & FIN. SMOOTH.
I. PRIME & PAINT ALL EXPOSED EXTERIOR WOODWORK AS SPECIFIED AND DIRECTED BY ARCHITECT.

EXT ELEVATION LEGEND:

AREA OF SPECIFIC ATTENTION

BALLARD HALL – KEYED REPAIR NOTES

1. REMOVE ROTTEN WD TRIM AT BASE OF COLUMN & REPAIR/RECONSTRUCT TO MATCH EXISTING
2. REMOVE ROTTEN WD AT FASCIA & SOFFIT, & RECONSTRUCT NEW TO MATCH EXISTING. PROVIDE & INSTALL NEW GUTTER TO MATCH EXISTING.
3. PROVIDE & INSTALL NEW MASONRY INFILL WALL IN VOID TO MATCH EXISTING.
4. CAREFULLY REMOVE FALLING BRICK INFILL & REBUILD NEW MASONRY INFILL WALL. REMOVE WD LEDGER TRIM BOARD, FLASHING, & TWO BOTTOM ROWS OF SIDING & REPLACE W/ NEW TO MATCH EXISTING.
5. REMOVE ROTTEN WD FASCIA, SOFFIT, & TRIM. REPAIR AND/OR RECONSTRUCT NEW TO MATCH EXISTING.
6. REMOVE ROTTEN WD FRAME TRIM & REPLACE W/ NEW TO MATCH EXISTING.
7. PROVIDE & INSTALL SEALANT & BACKER ROD TO CLOSE GAP BETWEEN SIDING & TRIM.
8. REMOVE BROKEN GLAZING & COVER OPENING W/ WD BOARDING.
9. REINSTALL OR REMOVE & REPLACE LOOSE & FALLING WD SIDING BOARDS.
10. REINSTALL OR RREMOVE & EPLACE LOOSE & FALLING WD SOFFIT & FASCIA BOARDS.
11. REMOVE ROTTEN WD DR THRESHOLD & TRIM & REPAIR/REPLACE W/ NEW TO MATCH EXISTING.
12. REMOVE ROTTEN WD SIDING ABV. DOOR & REPLACE W/ NEW WD SIDING TO MATCH EXISTING.
13. EXISTING WINDOW TO REMAIN. CAREFULLY CLEAN, PREPARE, & PAINT. TAKE CARE NOT TO DAMAGE WOOD COMPONENTS. PROTECT FROM DAMAGE DURING THE COURSE OF THE WORK.
14. REMOVE PEELING PAINT, CLEAN & PREPARE FOR NEW PAINT ALL WD SIDING, TRIM, FASCIA, & SOFFIT BOARDS ON ALL SIDES OF THE BUILDING. REPAIR AND/OR REMOVE & REPLACE ROTTEN, LOOSE, & BOWED WD SIDING, TRIM, FASCIA, & SOFFIT BOARDS AS REQ'D. SEAL ALL GAPS & CRACKS BET.WEEN WD PIECES. PRIME & PAINT AS SPEC'D.
15. CLEAN & PREPARE EXISTING MASONRY FOUNDATION FOR NEW PAINT. PRIME & PAINT.
16. PROVIDE & INSTALL NEW CONDENSER UNITS – SEE MECH DWGS. PROVIDE & INSTALL NEW CONCRETE SUPPORT PAD PER MANUFACTURER RECOMMENDATIONS.
17. 2ND FLR HVAC MEZZANINE – SEE MECH DWGS. FOR WORK IN THIS AREA

BALLARD HALL – DEMOLITION & REMODEL NOTES

1. DEMOLISH EXISTING LAY–IN ACOUTICAL CEILING TILE GRID SYSTEM & LIGHT FIXTURES. INSTALL NEW CLG GRID & LAY–IN ACOUSTICAL CEILING TILE SYSTEM. ACOUSTICAL CEILING TILES TO BE 1" SOUND ABSORPTIVE GLASS FIBER PANEL CLG TILES W/ AN NRC VALUE OF 0.95. PROVIDE & INSTALL NEW LED LIGHT FIXTURES – SEE ELEC.

REFLECTED CEILING PLAN LEGEND

- 2'X2'LAY–IN ACOUSTICAL CLG TILE SYSTEM
- 2'X4' CLG TILE TO HOLD PLACE FOR FUTURE 2'X4' SOUND DIFFUSER TO BE INSTALLED IN FUTURE PHASE
- CEILING MOUNTED SUPPLY/EXHAUST DIFFUSER, SEE MECH.
- GRID MOUNTED LIGHT FIXTURE, SEE ELEC.
- EXIST. SPOTLIGHT IN CLG TO REMAIN. LEAVE OUT LAT CLG TILE IN THIS LOCATION.

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Addendum No.1, Attachment 7

1 FRONT (EAST) EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10

2 SIDE (NORTH) EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10

3 REAR (WEST) EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10

4 SIDE (SOUTH) EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10

BALLARD HALL – GENERAL NOTES

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I. PRIME & PAINT ALL EXPOSED EXTERIOR WOODWORK AS SPECIFIED AND DIRECTED BY ARCHITECT.

EXT ELEVATION LEGEND:

AREA OF SPECIFIC ATTENTION

BALLARD HALL – KEYED REPAIR NOTES (#)

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RECORDED ARCHITECT Wesley A. Harp 4536 STATE OF MISSISSIPPI
06/11/2026

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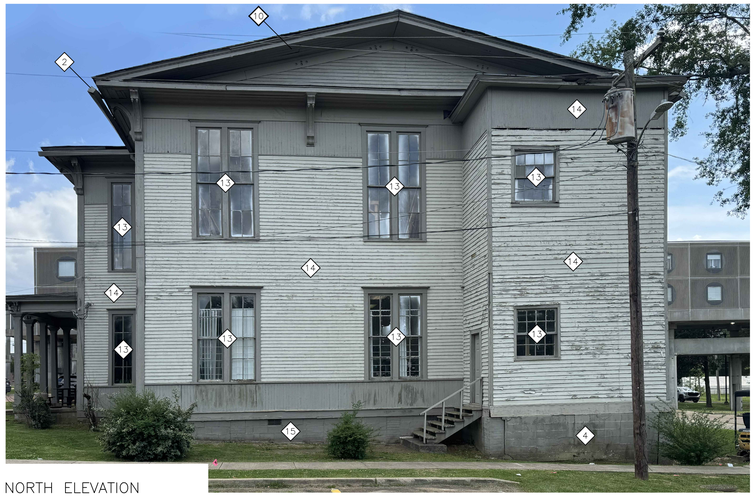
Addendum No.1, Attachment 8

EAST ELEVATION

NORTHEAST ELEVATION



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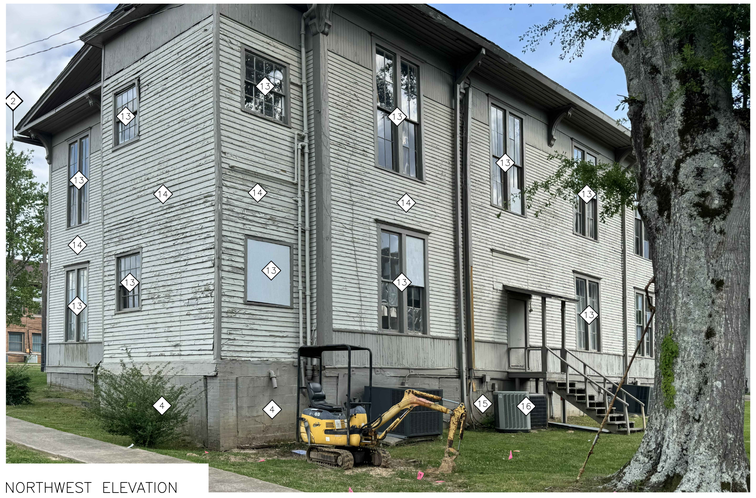
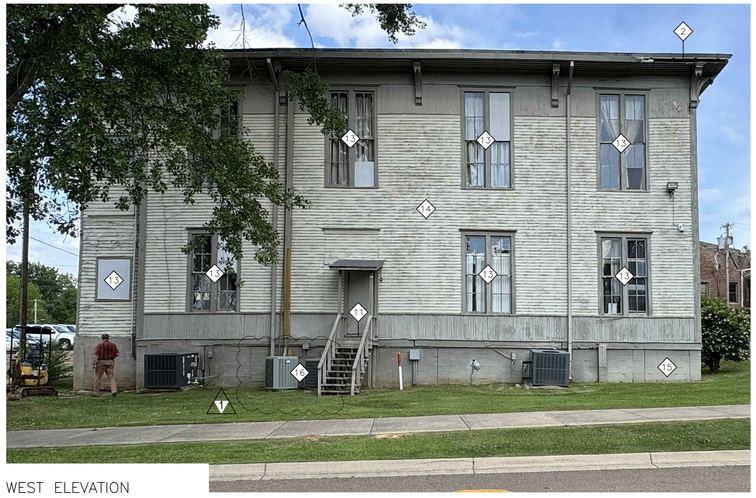
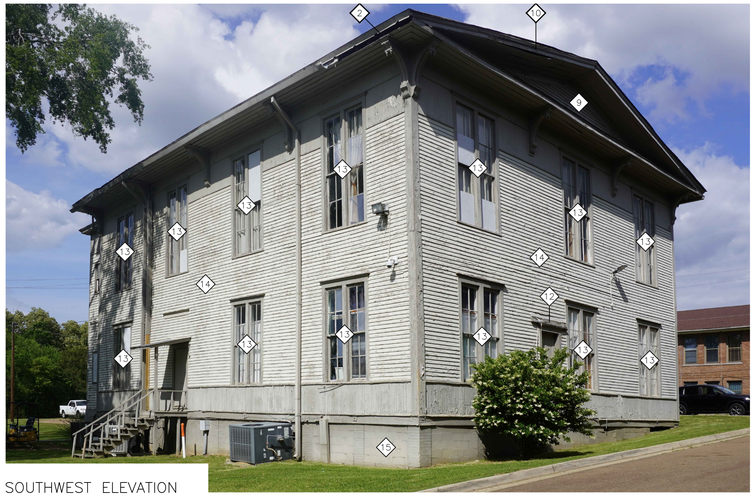


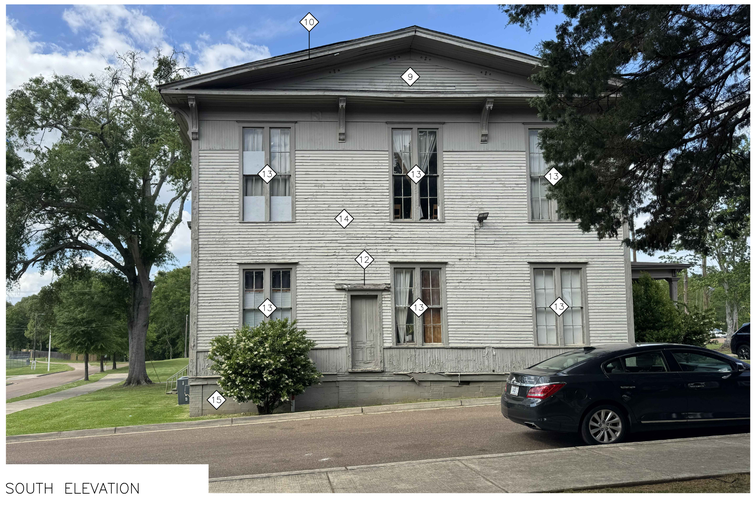
NORTHWEST ELEVATION



WEST ELEVATION



SOUTHWEST ELEVATION



SOUTH ELEVATION

SOUTHEAST ELEVATION

1 PHOTOS
SCALE: N.T.S.

BALLARD HALL – GENERAL NOTES

A. BALLARD HALL IS A CONTRIBUTING STRUCTURE WITHIN THE TOUGALOO COLLEGE NATIONAL REGISTER HISTORIC DISTRICT. ALL WORK ON BALLARD HALL IS TO BE PERFORMED IN ACCORDANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES: GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS.
B. PROTECT ALL EXISTING USABLE MATERIALS LEFT IN PLACE FOR REUSE & INCORPORATION IN THE FINISHED PROJECT.
C. REMOVE DEBRIS & TRASH FROM AROUND BUILDING AS REQ'D TO FACILITATE THE WORK. SALVAGE & STORE ALL BUILDING MATERIALS, TOOLS, UTENSILS, & SIMILAR ARTIFACTS FOR USE BY THE OWNER. REMOVE DEBRIS & TRASH FROM SITE ONLY AFTER RECEIVING PERMISSION FROM ARCHITECT.
D. PROTECT ALL SITE FEATURES SUCH AS WALKS, STEPS, DRIVEWAYS, WALLS, PLANTERS, FENCES, ETC. REPAIR OR REPLACE DAMAGED SITE FEATURES AS REQ'D TO MATCH ORIGINAL MATERIAL, CONSTRUCTION, & FINISH.
E. PROTECT FROM DAMAGE ALL TREES & VEGETATION AROUND THE PROJECT SITE. REPLACE ANY TREES OR VEGETATION DAMAGED DURING THE COURSE OF THE WORK W/ HEALTHY PLANTS OF SAME SPECIES & SIMILAR SIZE.
F. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO CONSTRUCTION & FIELD VERIFYING ALL ASPECTS OF THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS & THE EXIST. CONDITIONS.
G. ANY USABLE MATERIALS THAT MUST BE REMOVED DURING THE COURSE OF THE WORK SHALL BE REMOVED CAREFULLY & SAVED FOR RE-INSTALLATION IN ITS ORIGINAL LOCATION. THE CONTRACTOR SHALL SECURE THE APPROVAL OF THE ARCHITECT BEFORE DESTROYING ANY MATERIALS IN QUESTION.
H. WHERE EXISTING NAILS IN GOOD CONDITION PROTRUDE FROM SURFACE OF WOOD, DRIVE THE NAILS IN SECURELY. REMOVE ANY PROTRUDING RUSTED NAILS & DRIVE NEW NAILS NEXT TO EXISTING HOLES TO RE-SECURE WOOD. FILL HOLES W/ WOOD PUTTY & FIN. SMOOTH.
I. PRIME & PAINT ALL EXPOSED EXTERIOR WOODWORK AS SPECIFIED AND DIRECTED BY ARCHITECT.

AREA OF SPECIFIC ATTENTION

BALLARD HALL – KEYED REPAIR NOTES (#)

1. REMOVE ROTTEN WD TRIM AT BASE OF COLUMN & REPAIR/RECONSTRUCT TO MATCH EXISTING
2. REMOVE ROTTEN WD AT FASCIA & SOFFIT, & RECONSTRUCT NEW TO MATCH EXISTING. PROVIDE & INSTALL NEW GUTTER TO MATCH EXISTING.
3. PROVIDE & INSTALL NEW MASONRY INFILL WALL IN VOID TO MATCH EXISTING.
4. CAREFULLY REMOVE FALLING BRICK INFILL & REBUILD NEW MASONRY INFILL WALL. REMOVE WD LEDGER TRIM BOARD, FLASHING, & TWO BOTTOM ROWS OF SIDING & REPLACE W/ NEW TO MATCH EXISTING.
5. REMOVE ROTTEN WD FASCIA, SOFFIT, & TRIM. REPAIR AND/OR RECONSTRUCT NEW TO MATCH EXISTING.
6. REMOVE ROTTEN WD FRAME TRIM & REPLACE W/ NEW TO MATCH EXISTING.
7. PROVIDE & INSTALL SEALANT & BACKER ROD TO CLOSE GAP BETWEEN SIDING & TRIM.
8. REMOVE BROKEN GLAZING & COVER OPENING W/ WD BOARDING.
9. REINSTALL OR REMOVE & REPLACE LOOSE & FALLING WD SIDING BOARDS.
10. REINSTALL OR RREMOVE & EPLACE LOOSE & FALLING WD SOFFIT & FASCIA BOARDS.
11. REMOVE ROTTEN WD DR THRESHOLD & TRIM & REPAIR/REPLACE W/ NEW TO MATCH EXISTING.
12. REMOVE ROTTEN WD SIDING ABV. DOOR & REPLACE W/ NEW WD SIDING TO MATCH EXISTING.
13. EXISTING WINDOW TO REMAIN. CAREFULLY CLEAN, PREPARE, & PAINT. TAKE CARE NOT TO DAMAGE WOOD COMPONENTS. PROTECT FROM DAMAGE DURING THE COURSE OF THE WORK.
14. REMOVE PEELING PAINT, CLEAN & PREPARE FOR NEW PAINT ALL WD SIDING, TRIM, FASCIA, & SOFFIT BOARDS ON ALL SIDES OF THE BUILDING. REPAIR AND/OR REMOVE & REPLACE ROTTEN, LOOSE, & BOWED WD SIDING, TRIM, FASCIA, & SOFFIT BOARDS AS REQ'D. SEAL ALL GAPS & CRACKS BET.WEEN WD PIECES. PRIME & PAINT AS SPEC'D.
15. CLEAN & PREPARE EXISTING MASONRY FOUNDATION FOR NEW PAINT. PRIME & PAINT.
16. PROVIDE & INSTALL NEW CONDENSER UNITS – SEE MECH DWGS. PROVIDE & INSTALL NEW CONCRETE SUPPORT PAD PER MANUFACTURER RECOMMENDATIONS.
17. 2ND FLR HVAC MEZZANINE – SEE MECH DWGS. FOR WORK IN THIS AREA

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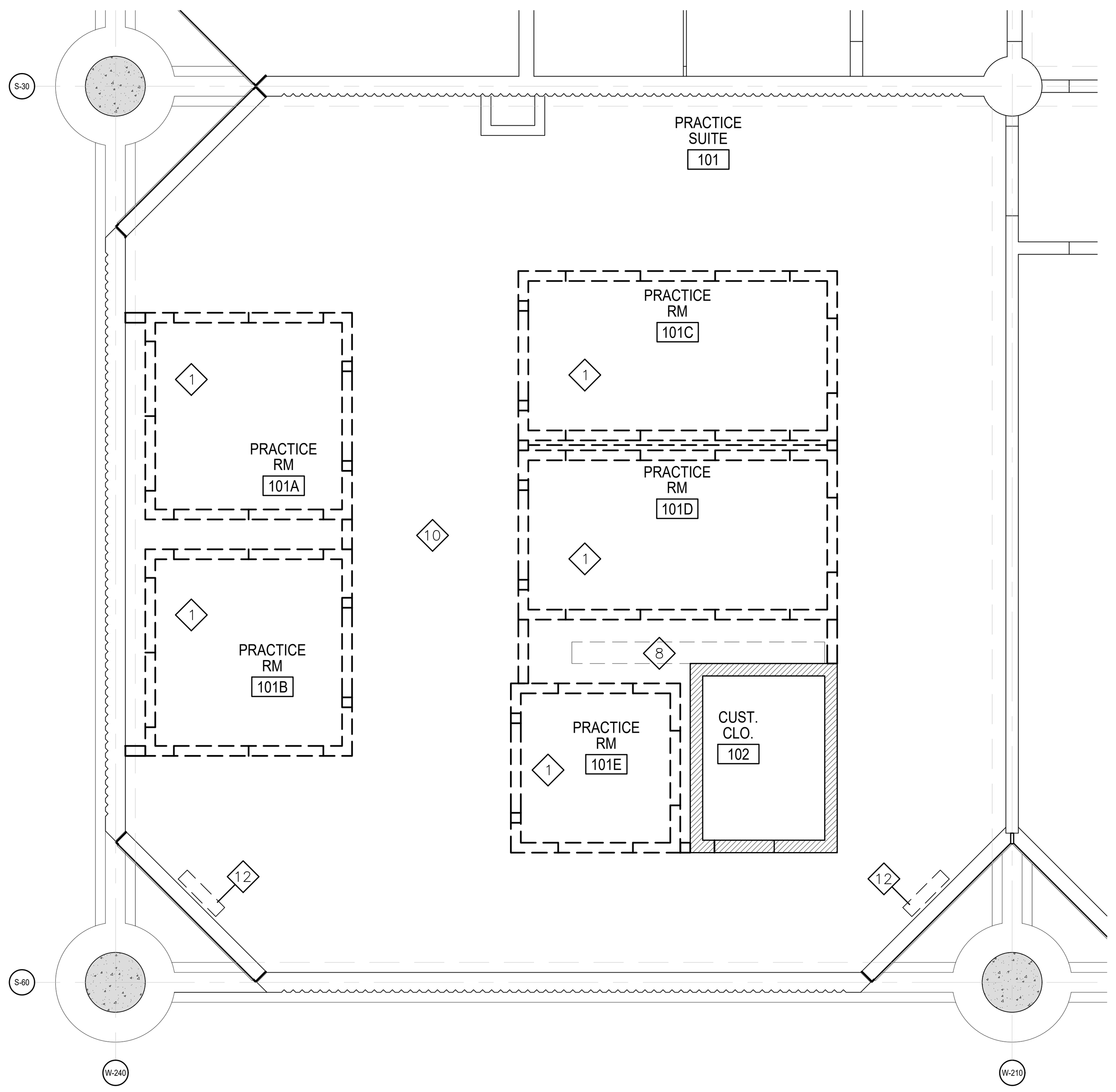
Addendum No.1, Attachment 9



4 LIBRARY – 1ST FLR – PRACTICE ROOMS RCP – REMODEL
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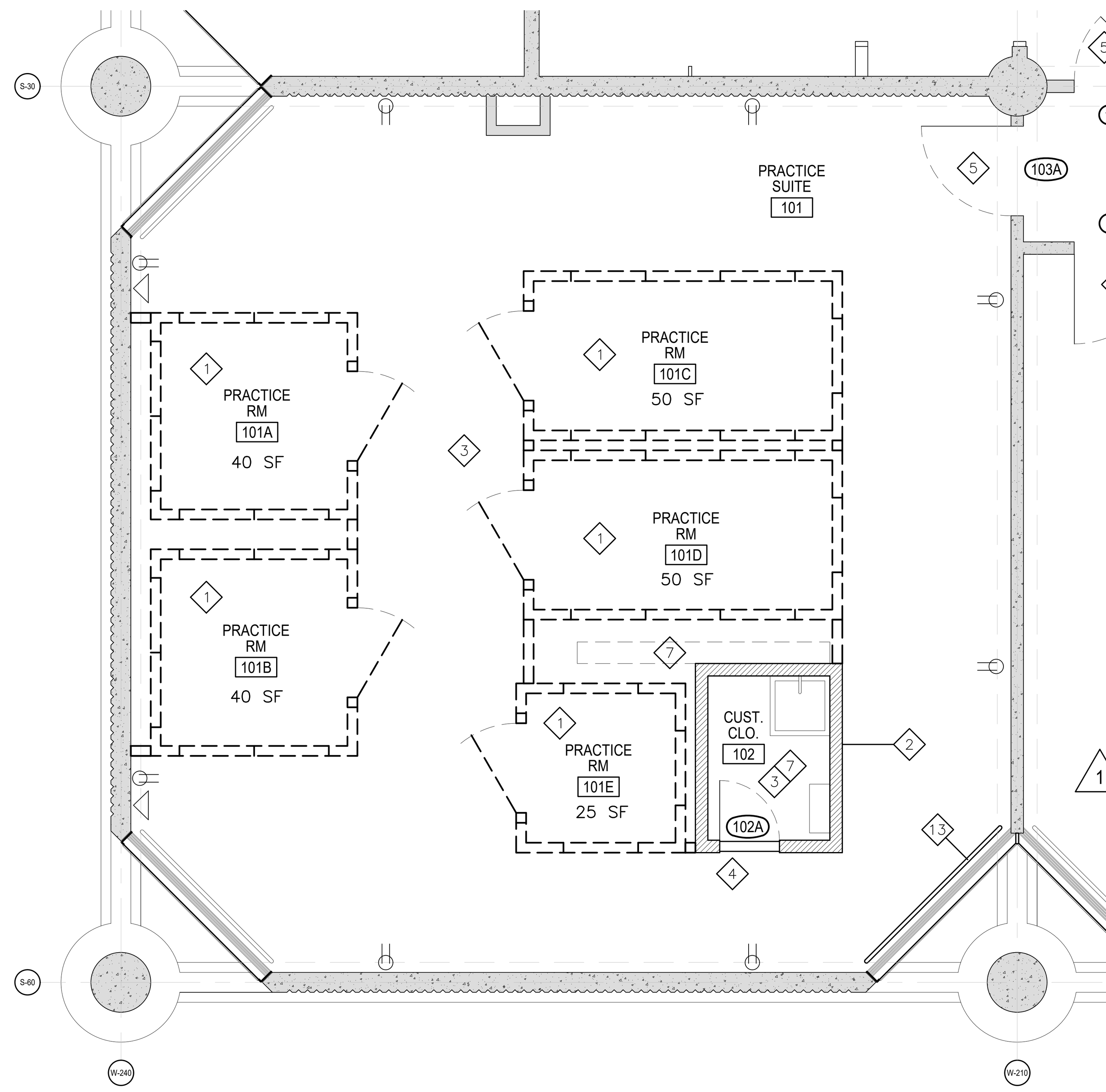
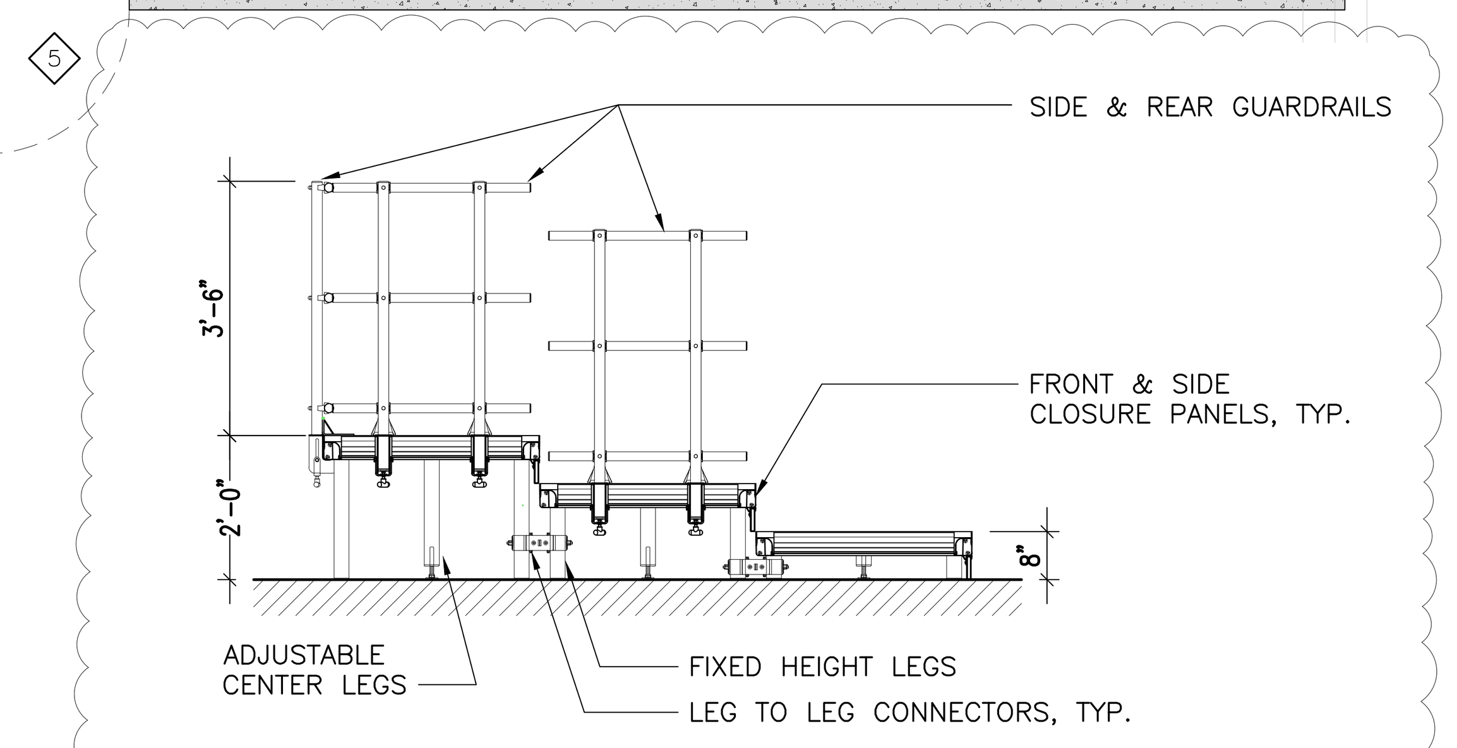


3 LIBRARY – 1ST FLR – PRACTICE ROOMS FLOOR PLAN – REMODEL
SCALE: 1/4" = 1'-0"



5 LIBRARY – SEATED RISER SECTION
SCALE: 1/4" = 1'-0"

COLEMAN LIBRARY – KEYED REMODEL NOTES

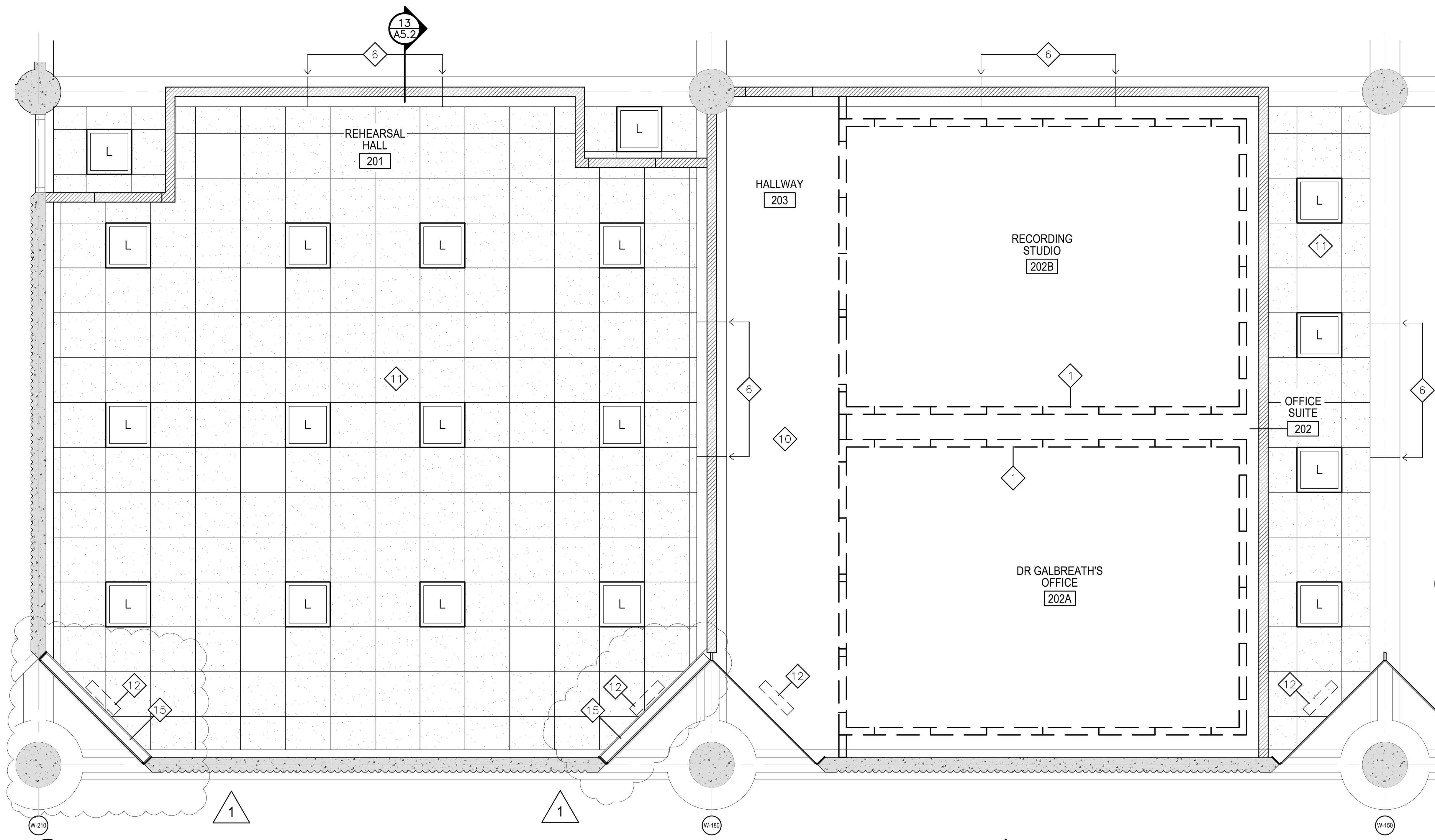
1. NEW ACOUSTIC PANEL SOUND ISOLATION ROOM TO BE INSTALLED IN FUTURE PHASE – SEE ALTERNATES.
2. CONSTRUCT NEW PARTITION IN LOCATION SHOWN.
3. PROVIDE & INSTALL NEW FINISH FLOOR AS SCHED.
4. PROVIDE & INSTALL NEW DOOR AND FRAME AS SCHED.
5. EXISTING DOOR & FRAME TO REMAIN. PROVIDE NEW THRESHOLD, OR FLOOR FINISH TRANSITION, AS SCHED.
6. FILL VOID IN CONCRETE BEAM TO CREATE A SOUND ISOLATED SPACE IN NEW REHEARSAL HALL & OFFICE SUITE.
7. EXISTING ELEC. EQUIP. TO REMAIN WITHIN JANITOR'S CLOSET. PROVIDE & INSTALL NEW MOP SINK & FAUCET. PROTECT FROM DAMAGE DURING THE COURSE OF THE WORK.
8. EXISTING MECH CHASE LOCATION. EXIST. PLUMB TO REMAIN. PROTECT FROM DAMAGE DURING THE COURSE OF THE WORK.
9. PROVIDE & INSTALL NEW LAT CLG SYSTEM.
10. NEW LAT CLG SYSTEM TO BE INSTALLED IN FUTURE PHASE – SEE ALTERNATES.
11. PROVIDE & INSTALL NEW LAT CLG IN LOCATION SHOWN.
12. FILL OPENING IN UNDERSIDE OF CONC. DECK/BEAM W/ SOUND BATT & COVER OPNG. WITH TYPE "X" GYP. BD. MECH. FAS TO CONC. SLAB. CONT. SEAL EDGES OF GYP. BD. TO CONC. DECK.
13. PROVIDE & INSTALL NEW MTL. RAILING TO MATCH ORIGINAL.
14. PROVIDE & INSTALL NEW SEATED RISERS. SEATED RISERS TO HAVE FRONT AND SIDE CLOSERS & SIDE AND REAR GUARDRAILS, TYP. – SEE 5/A2.2
15. PROVIDE & INSTALL NEW ROLLER SHADES. MECHANICALLY FASTEN TO NEW ALUMINUM ANGLE @ EXISTING WINDOW – SEE 11/A2.3

PLAN LEGEND:

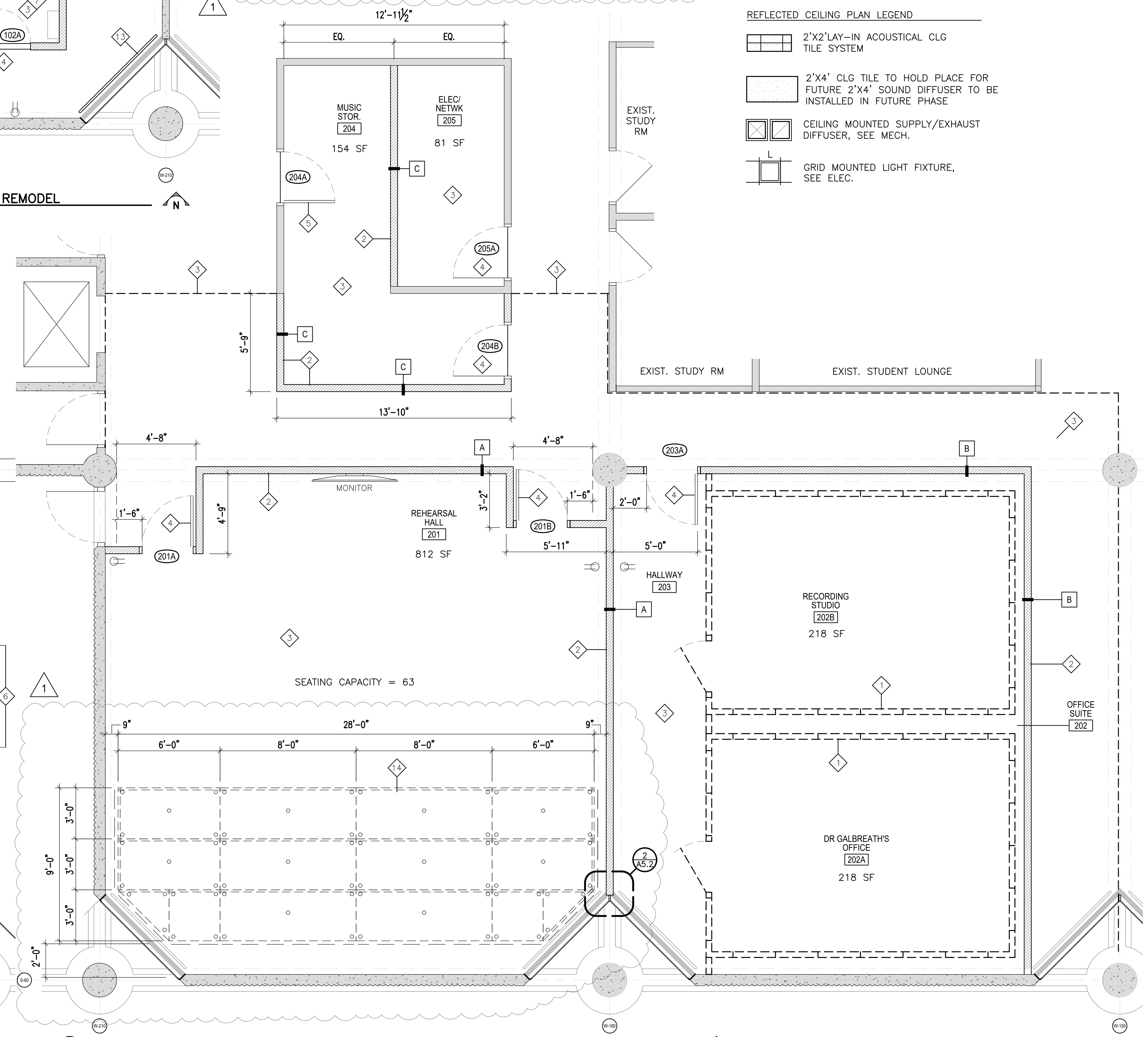
- EXIST. MTL STUD PARTITION TO REMAIN
- EXIST. CONC. PARTITION TO REMAIN
- NEW MTL STUD PARTITION

REFLECTED CEILING PLAN LEGEND

- 2'X2' LAY-IN ACOUSTICAL CLG TILE SYSTEM
- 2'X4' CLG TILE TO HOLD PLACE FOR FUTURE 2'X4' SOUND DIFFUSER TO BE INSTALLED IN FUTURE PHASE
- CEILING MOUNTED SUPPLY/EXHAUST DIFFUSER, SEE MECH.
- GRID MOUNTED LIGHT FIXTURE, SEE ELEC.



2 LIBRARY – 2ND FLR – REHEARSAL HALL AND OFFICE SUITE – REFLECTED CEILING PLAN – REMODEL
SCALE: 1/4" = 1'-0"



1 LIBRARY – 2ND FLR – REHEARSAL HALL AND OFFICE SUITE – FLOOR PLAN – REMODEL
SCALE: 1/4" = 1'-0"

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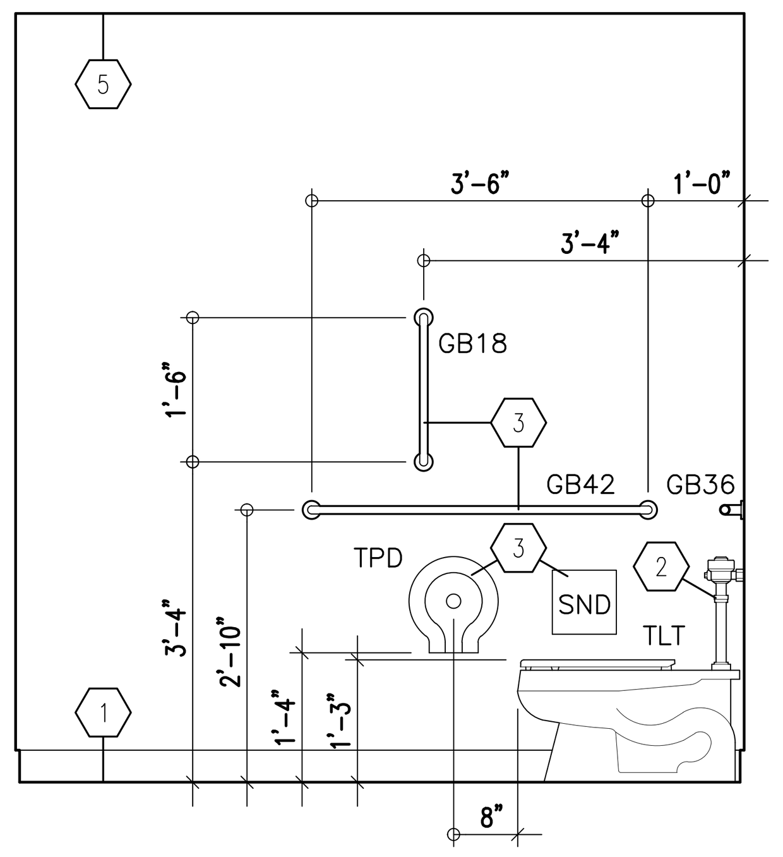
Addendum No.1, Attachment 10



4 LIBRARY – WOMENS 105 – INT ELEV
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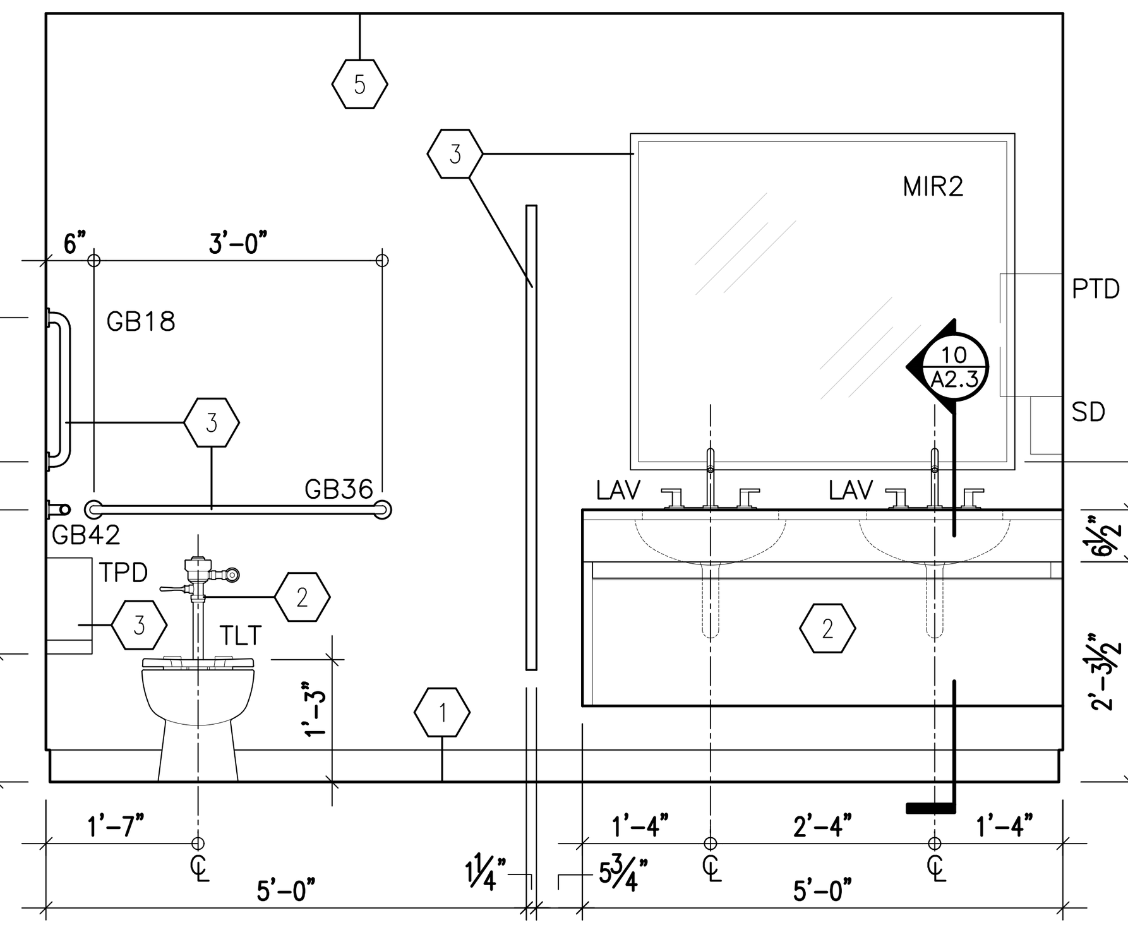

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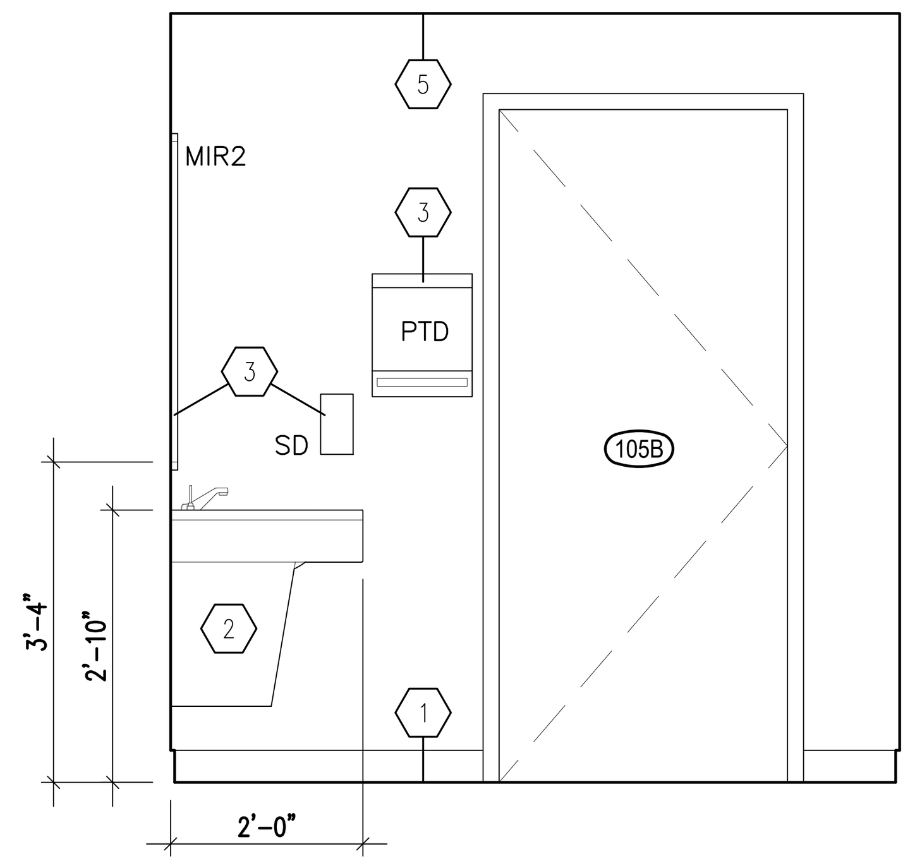

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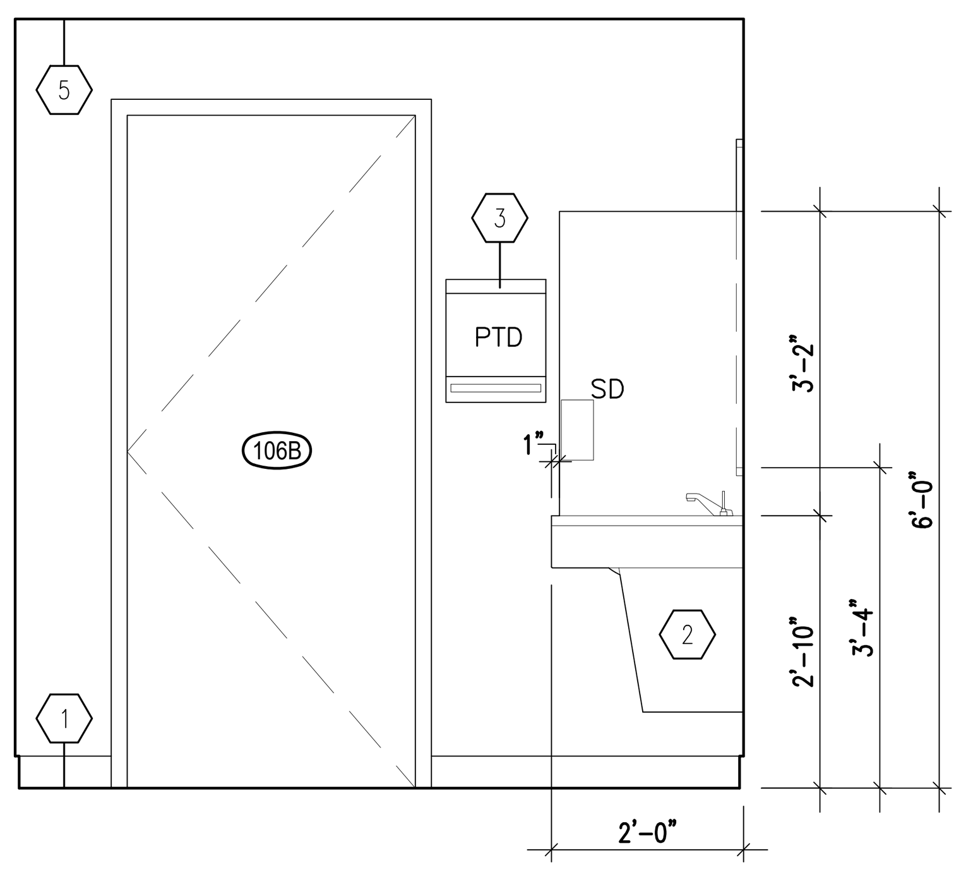

7 LIBRARY – WOMENS 105 – INT ELEV
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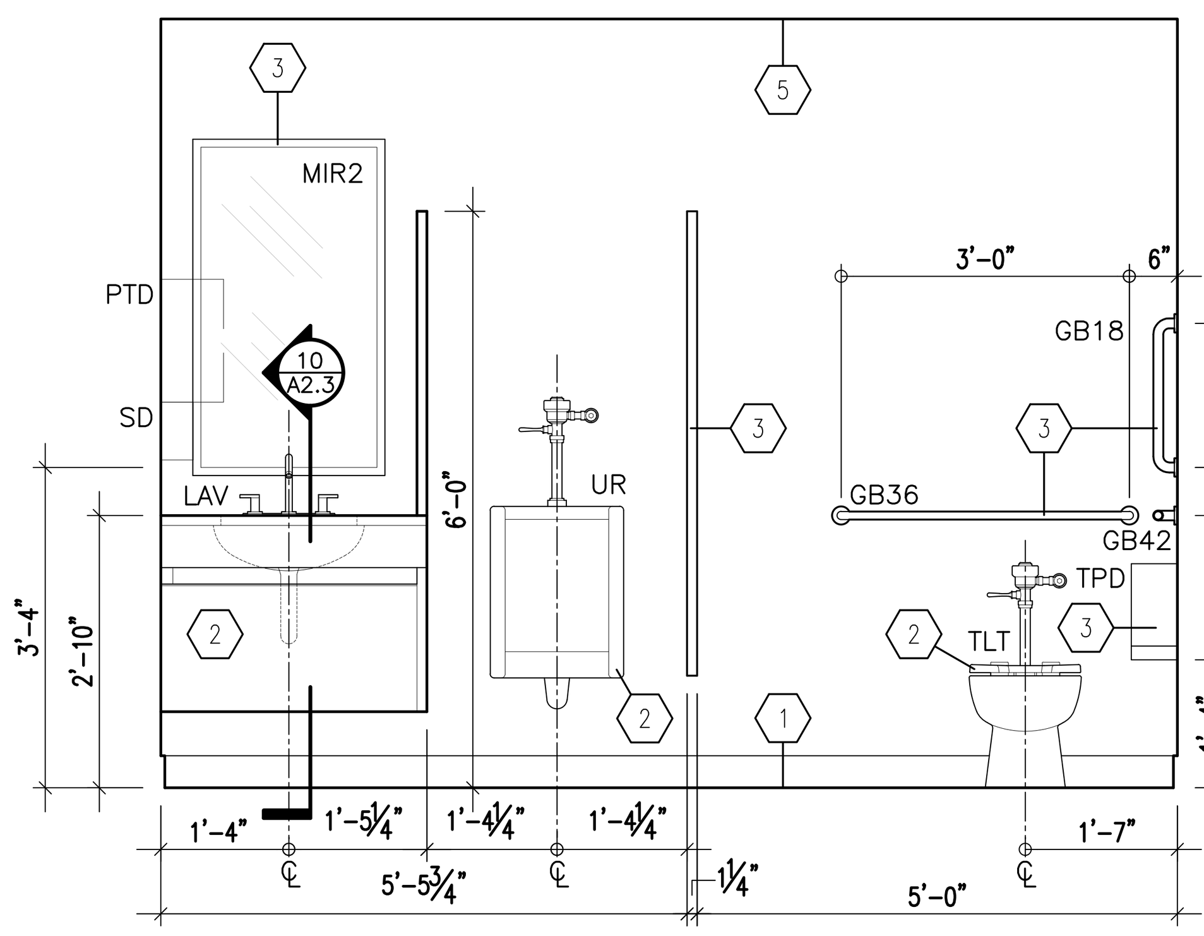

8 LIBRARY – WOMENS 105 – INT ELEV
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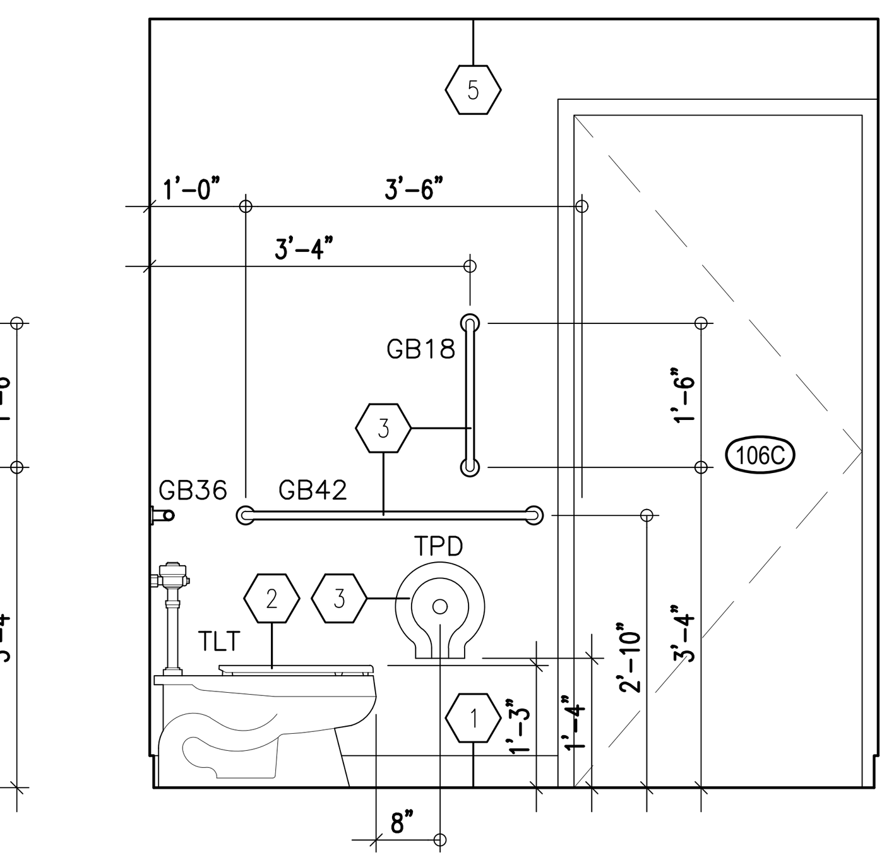


9 LIBRARY – WOMENS 105 – INT ELEV
SCALE: 1/2" = 1'-0"

TOILET ACCESSORIES SCHEDULE	
ID	DESCRIPTION
GB18	18" VERTICAL GRAB BAR
GB36	36" HORIZONTAL GRAB BAR
GB42	42" HORIZONTAL GRAB BAR
LAV	LAVATORY – SEE PLUMB.
MIR1	SURFACE MOUNTED MIRROR (24"WX42"H)
MIR2	SURFACE MOUNTED MIRROR (48"WX42"H)
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER
SND	SANITARY NAPKIN DISPENSER
TLT	TOILET – SEE PLUMB.
TPD	TOILET PAPER DISPENSER
UR	URINAL – PLUMB.

RESTROOM GENERAL NOTES

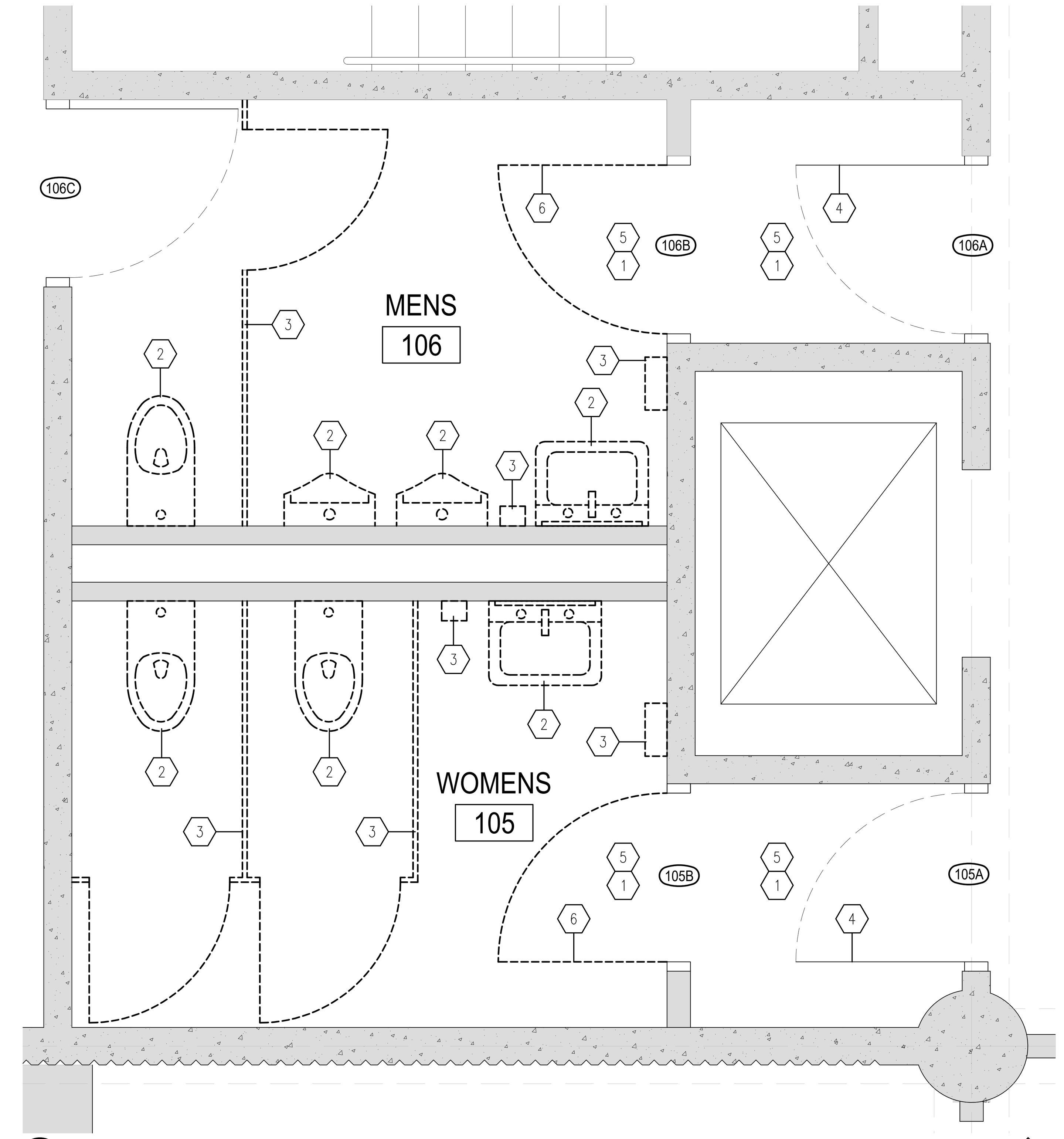
A. WHERE LAVATORIES ARE MOUNTED ON PARTITIONS, METAL STUDS SHALL BE REINFORCED AS REQUIRED.

KEYED RESTROOM DEMOLITION & REMODEL NOTES (#)

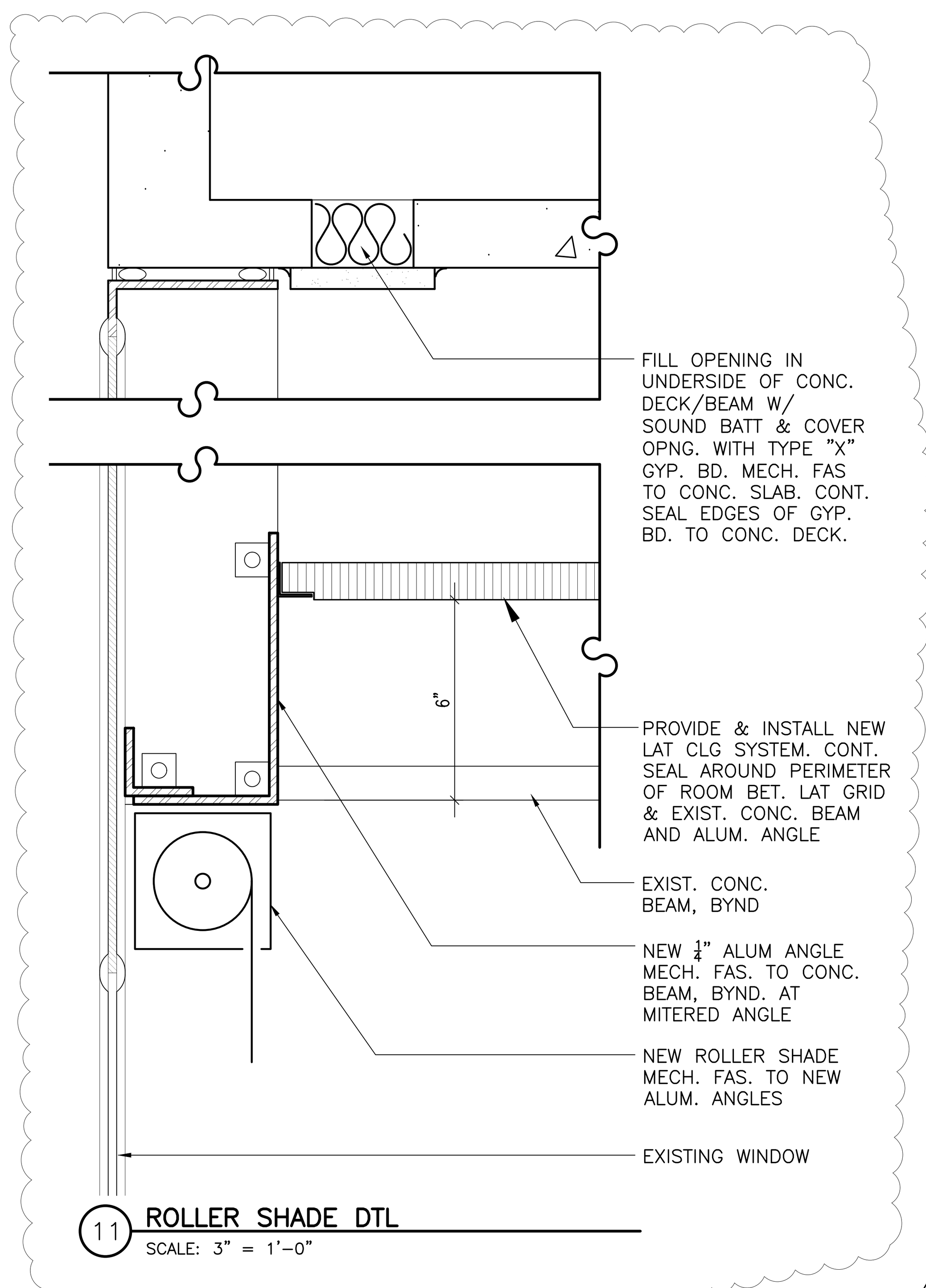
1. DEMOLISH EXIST. FIN. FLR., CLEAN & PREPARE SUBFLOOR FOR INSTALLATION OF NEW FINISH FLOOR. PROVIDE & INSTALL NEW FINISH FLOOR AS SCHEDULED. PROVIDE & INSTALL NEW THRESHOLD AT EXISTING DOOR(S) AS SCHEDULED.
2. DEMOLISH EXIST. PLUMBING FIXTURES. PROVIDE & INSTALL NEW FIXTURES AS SPEC'D, IN LOCATIONS SHOWN – SEE PLUMBING DWGS.
3. REMOVE EXIST. PLUMBING ACCESSORIES, SALVAGE AND RETURN TO TOUGALOO. INSTALL NEW PLUMBING ACCESSORIES AS SPEC'D.
4. EXIST. DOOR & FRAME TO REMAIN. CLEAN AND PAINT.
5. DEMOLISH EXIST. GYP. BD. CLG. PROVIDE & INSTALL NEW LAT CLG SYSTEM.
6. REMOVE EXIST. 2ND SET OF DOORS WITHIN RESTROOMS, LEAVE FRAMES IN PLACE.
7. PROVIDE AND INSTALL NEW ADA AUTOMATIC DOOR OPENER OPERATOR.

REFLECTED CEILING PLAN LEGEND

- 2'X2' LAY-IN ACOUSTICAL CLG TILE SYSTEM
- CEILING MOUNTED SUPPLY/EXHAUST DIFFUSER, SEE MECH.
- GRID MOUNTED LIGHT FIXTURE, SEE ELEC.

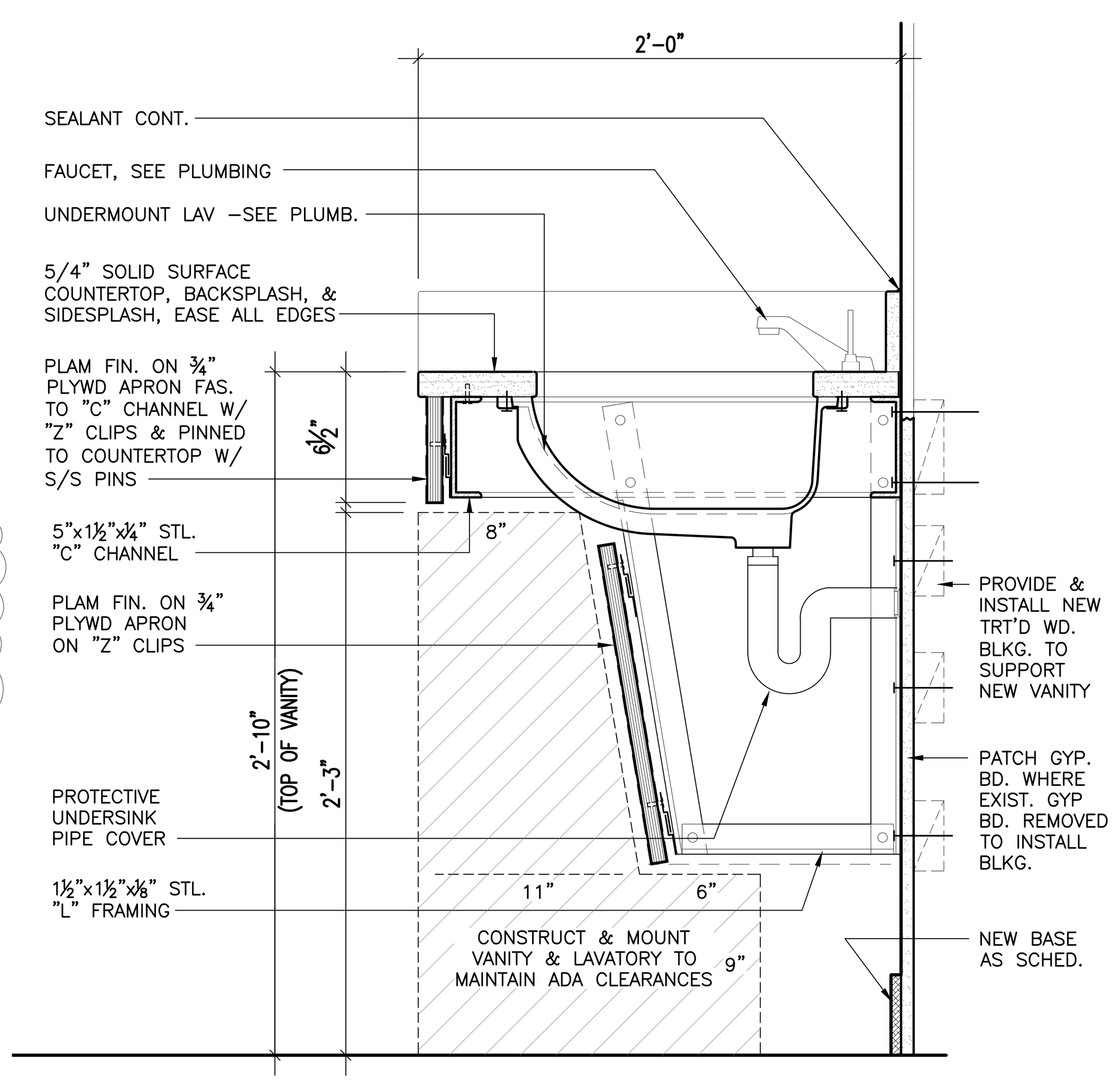


1 LIBRARY – 1ST FLOOR – PARTIAL ENLARGED PLAN – DEMOLITION
SCALE: 1/2" = 1'-0"

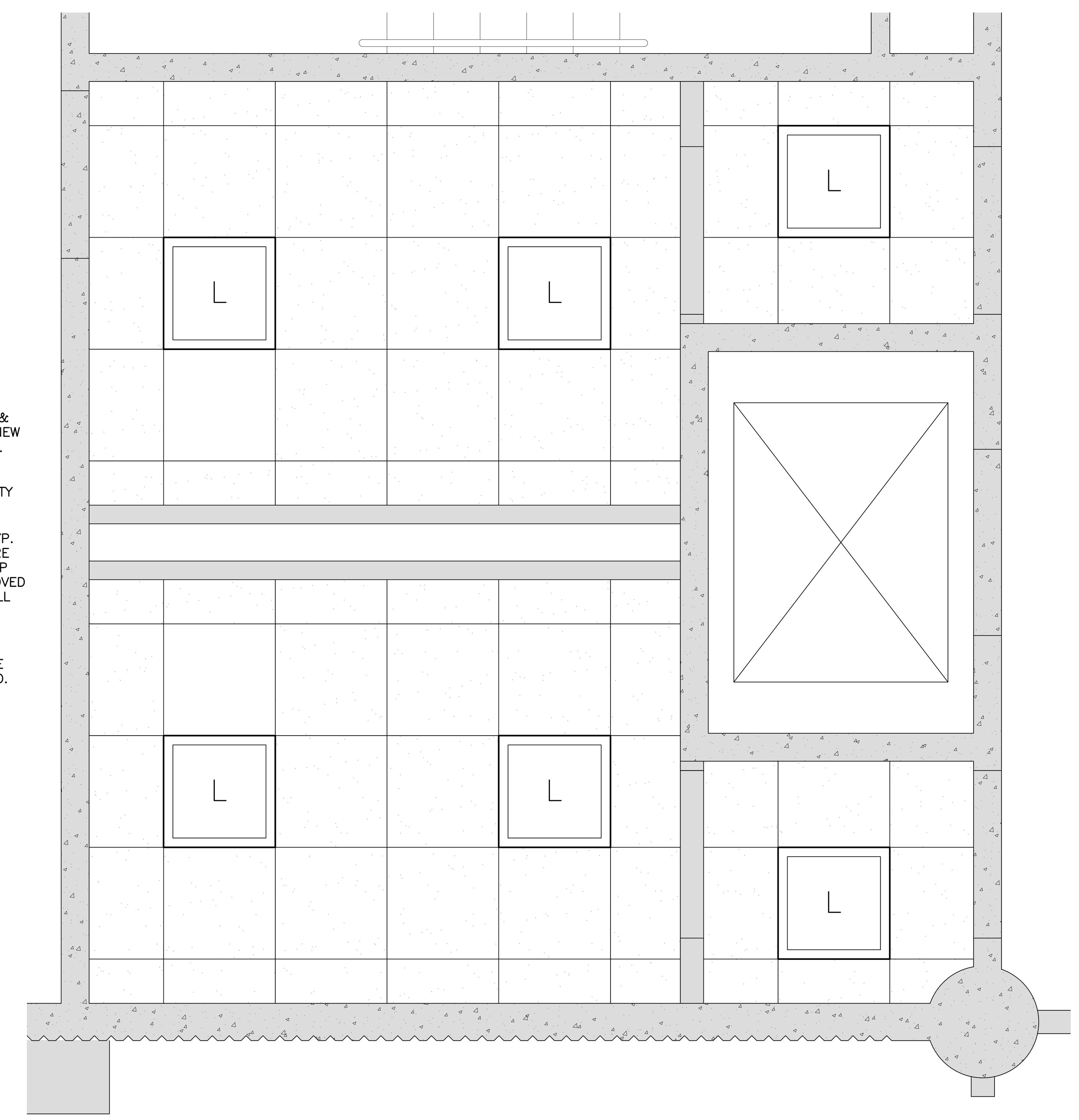


11 ROLLER SHADE DTL
SCALE: 3" = 1'-0"

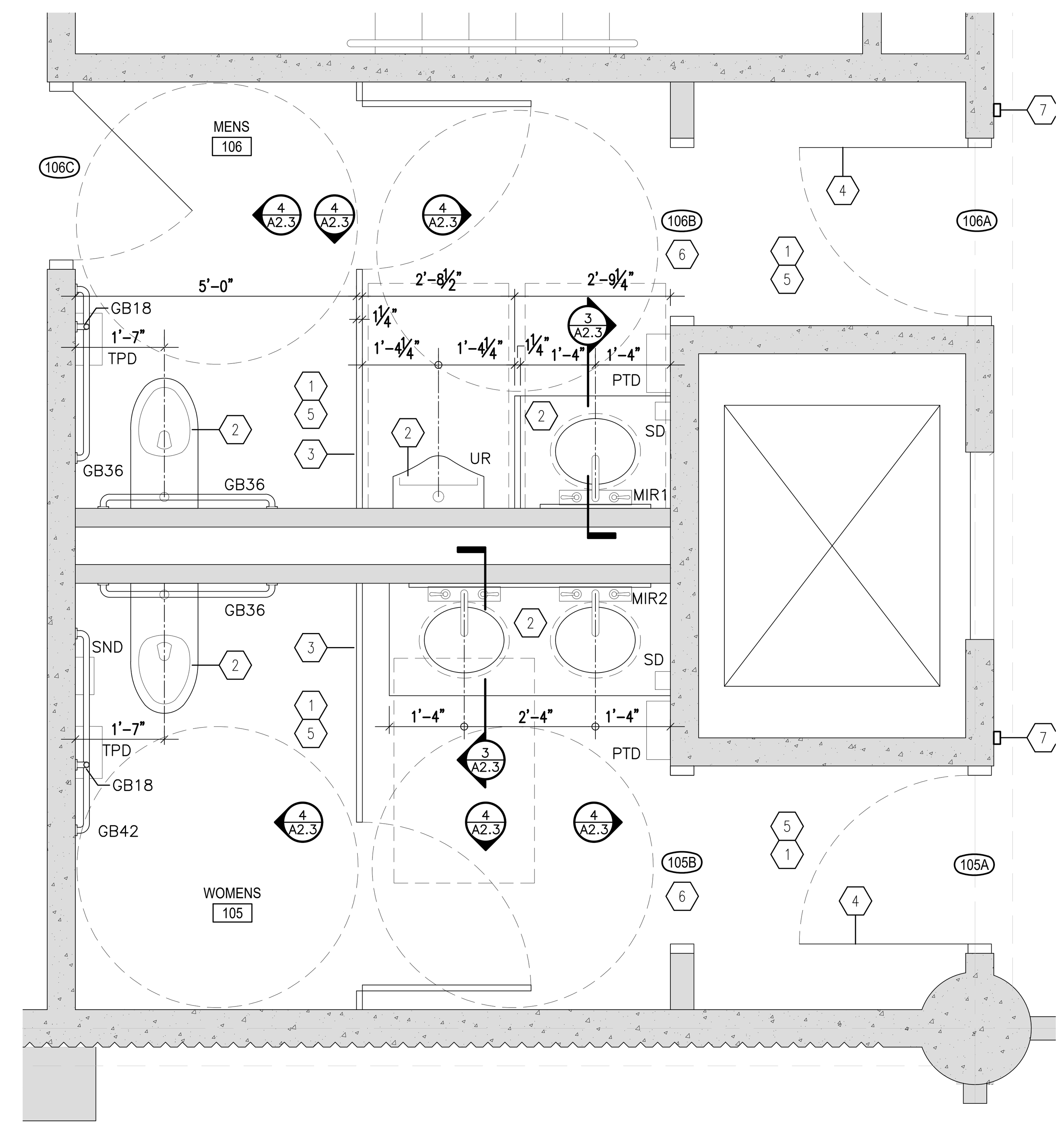
1



10 VANITY DTL
SCALE: 1 1/2" = 1'-0"



3 LIBRARY – 1ST FLOOR – PARTIAL ENLARGED RCP – REMODEL
SCALE: 1/2" = 1'-0"



2 LIBRARY – 1ST FLOOR – PARTIAL ENLARGED PLAN – REMODEL
SCALE: 1/2" = 1'-0"

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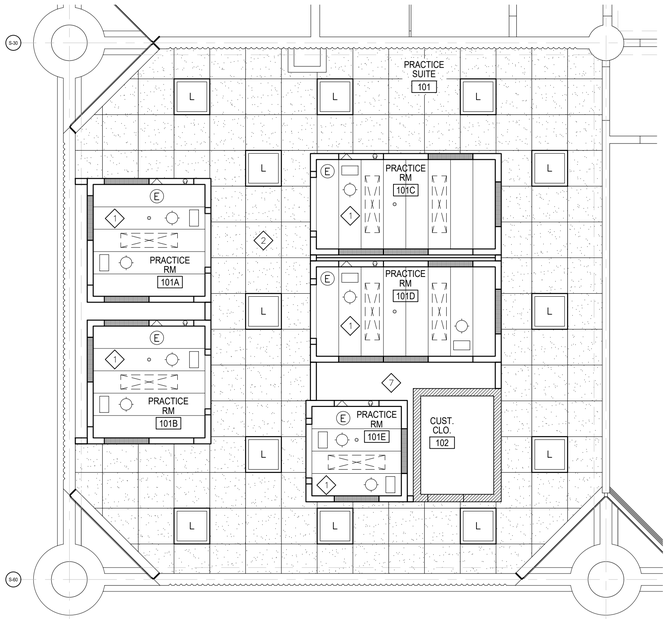
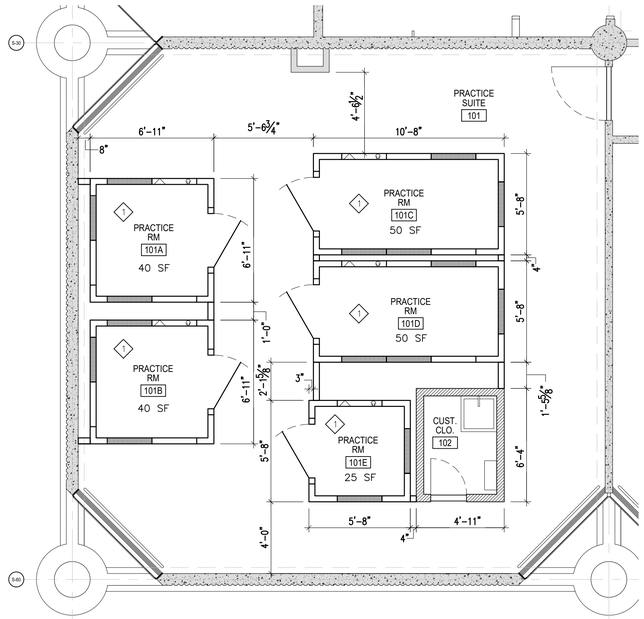
Addendum No.1, Attachment 11



4 LIBRARY – 1ST FLR – PRACTICE ROOMS RCP – REMODEL – ALTERNATE

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



3 LIBRARY – 1ST FLR – PRACTICE ROOMS FLOOR PLAN – REMODEL – ALTERNATE

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

FINISH SCHEDULE (ALTERNATE #1)									
RM #	RM NAME	FLR FIN	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING (HGT.)	REMARKS
101	PRACTICE SUITE	CPT	RB	EXIST. CONC./ PT	EXIST. GB/PT	EXIST. CONC./ PT	EXIST. CONC/PT	AU#1 (9'-4")	3
203	HALLWAY	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	AU#1 (9'-4")	3

FINISH LEGEND:

AU#1	ACOUSTIC CLG TILE UNIT
AU#2	ACOUSTIC CLG TILE UNIT
CONC	CONCRETE
PT	CARPET
CT	CERAMIC TILE
GB	GYPSUM BOARD
PT	PAINT
RB	RUBBER BASE

REFLECTED CEILING PLAN LEGEND

- 2'X2'LAY–IN ACOUSTICAL CLG TILE SYSTEM
- CEILING MOUNTED SUPPLY/EXHAUST DIFFUSER, SEE MECH.
- L — GRID MOUNTED LIGHT FIXTURE, SEE ELEC.
- EXIST. SPOTLIGHT IN CLG TO REMAIN. LEAVE OUT LAT CLG TILE IN THIS LOCATION.

ALTERNATES KEYED REMODEL NOTES (#)

1. ALTERNATE #1 – NEW ACOUSTIC PANEL SOUND ISOLATION ROOM TO BE INSTALLED IN FUTURE PHASE.
2. ALTERNATE #1 – PROVIDE & INSTALL NEW LAT CLG IN LOCATION SHOWN.
3. ALTERNATE #2 – PROVIDE & INSTALL NEW WALL & CLG MOUNTED SOUND ABSORBER/DIFFUSER PANEL AS SHOWN.
4. ALTERNATE #3 – REMOVE EXISTING PACU UNITS SERVING 1ST FLR OF BALLARD HALL. PROVIDE & INSTALL NEW PACU UNITS – SEE MECH. CONSTRUCT NEW CONC. SUPPORT PAD AS RECOMMENDED BY MANUFACTURER.

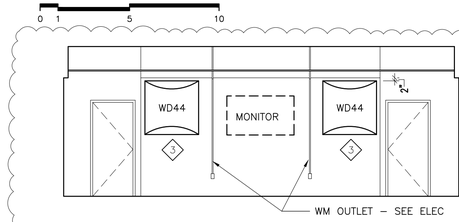
1

SOUND ISOLATION ROOM NOTES

1. INSTALL SOUND ISOLATION WALL PNLS OVER FIN. FLR.
2. COORD. COLOR W/ ARCHITECT.
3. ACOUSTIC PANEL LOCATIONS ARE APPROX. & MAY REQUIRE MINOR ADJUSTMENT BASED UPON ACTUAL JOB SITE CONDITIONS.
4. WALL & CLG SOUND ABSORBER & DIFFUSER PNL COLOR TO BE COORD. W/ ARCHITECT.

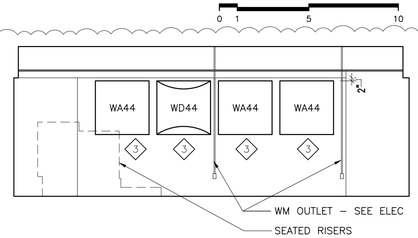
SOUND ISOLATION WALL LEGEND:

- CORNER PANEL (PERFORATED)
- 30" WALL PANEL (PERFORATED)
- 30" WALL PANEL (SOLID)
- 30" WALL PANEL (BEAM SUPPORT)
- 30" POWER PANEL
- 30" COMMUNICATION PANEL
- DOOR
- E — APPROX. LOCATION OF ELEC SERVICE IN CEILING PANEL
- CEILING PLANEL (AIR INTAKE)
- CEILING PLANEL (AIR INTAKE)
- CEILING PLANEL (SPRINKLER KNOCK OUT)
- WA26 — 2'X6'X3" WALL SOUND ABSORBER
- WA36 — 4'X6'X3" WALL SOUND ABSORBER
- WA44 — 4'X4'X3" WALL SOUND ABSORBER
- WA46 — 4'X6'X3" WALL SOUND ABSORBER
- WD36 — 3'X6' WALL SOUND DIFFUSER, CONVEX TYPE I
- WD43 — 4'X3' WALL SOUND DIFFUSER, CONVEX TYPE I
- WD44 — 4'X4' WALL SOUND DIFFUSER, CONVEX TYPE I
- CL42 — 4'X2' CEILING SOUND DIFFUSER



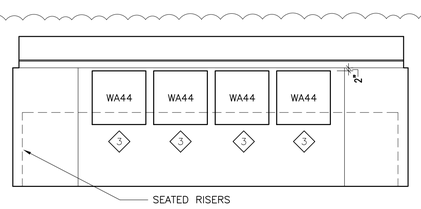
7 REHEARSAL HALL – INTERIOR ELEVATION

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



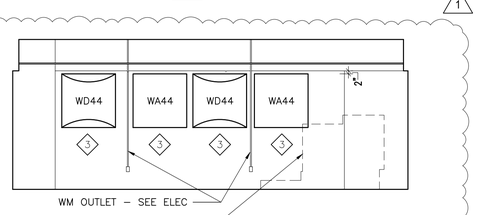
8 REHEARSAL HALL – INTERIOR ELEVATION

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



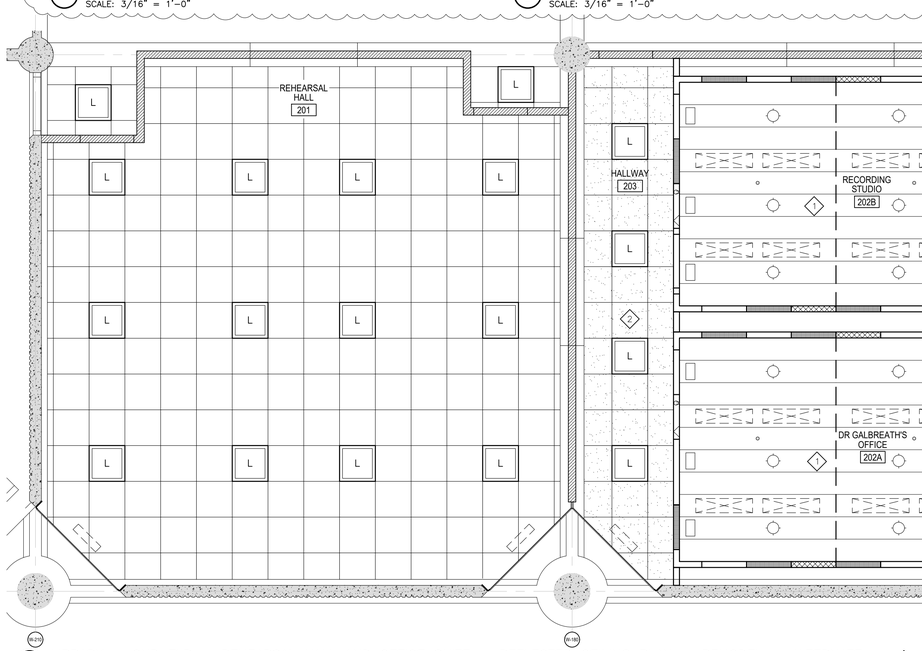
9 REHEARSAL HALL – INTERIOR ELEVATION

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



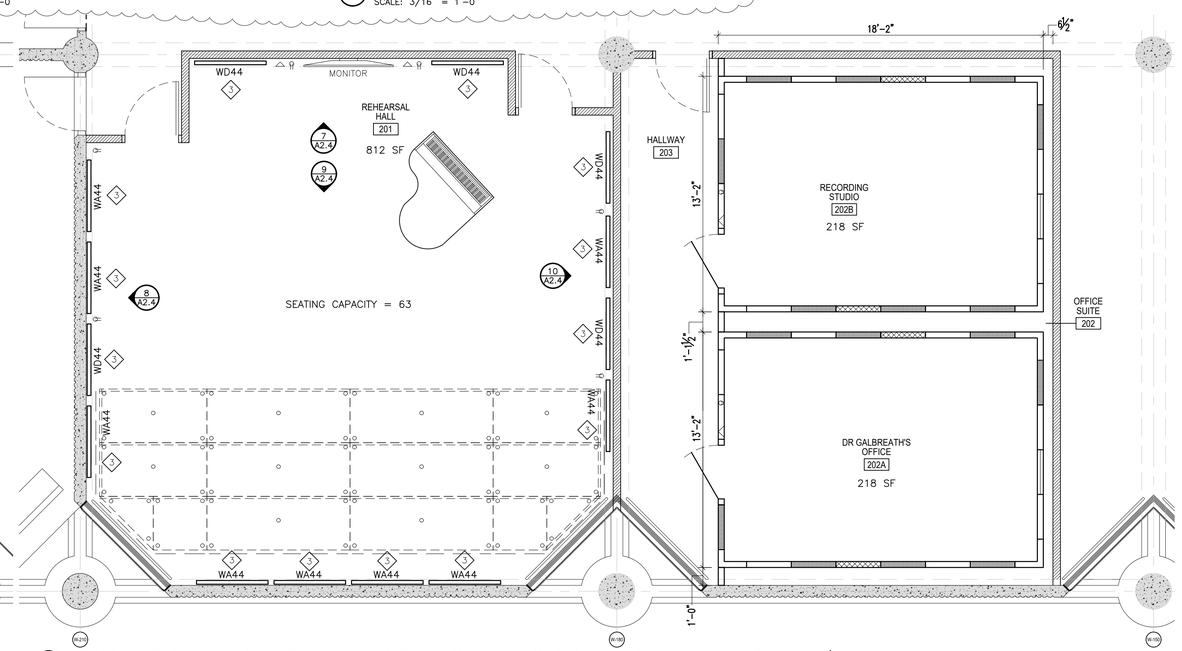
10 REHEARSAL HALL – INTERIOR ELEVATION

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



2 LIBRARY – 2ND FLR – REHEARSAL HALL AND OFFICE SUITE – REFLECTED CEILING PLAN – REMODEL – ALTERNATE

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



1 LIBRARY – 2ND FLR – REHEARSAL HALL AND OFFICE SUITE – FLOOR PLAN – REMODEL – ALTERNATE

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

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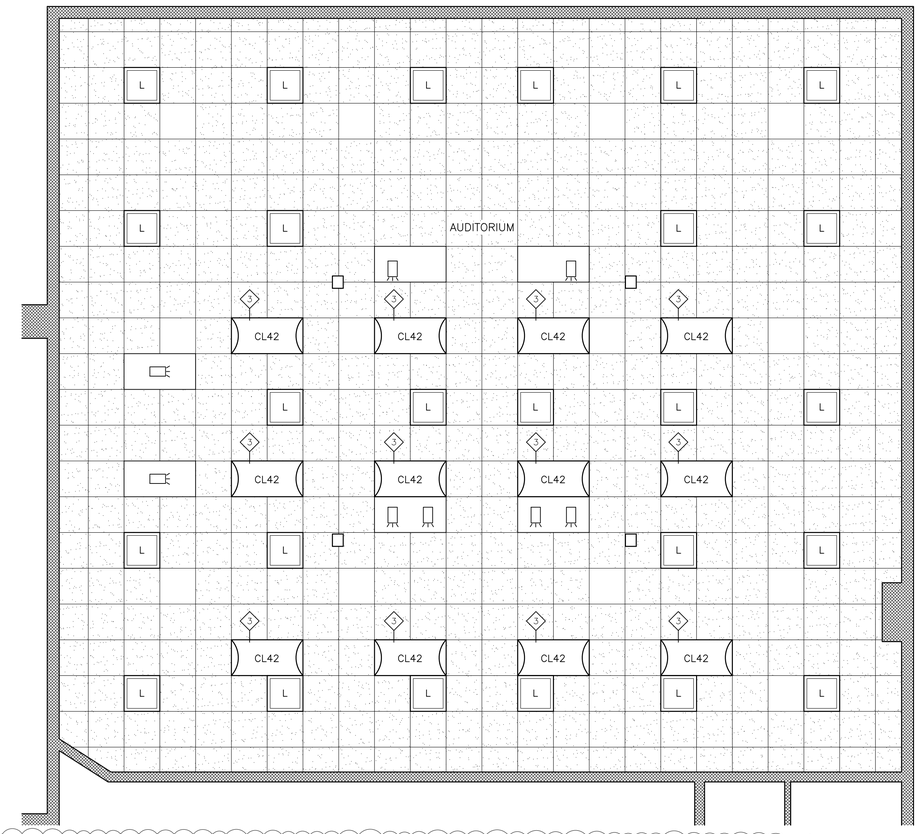
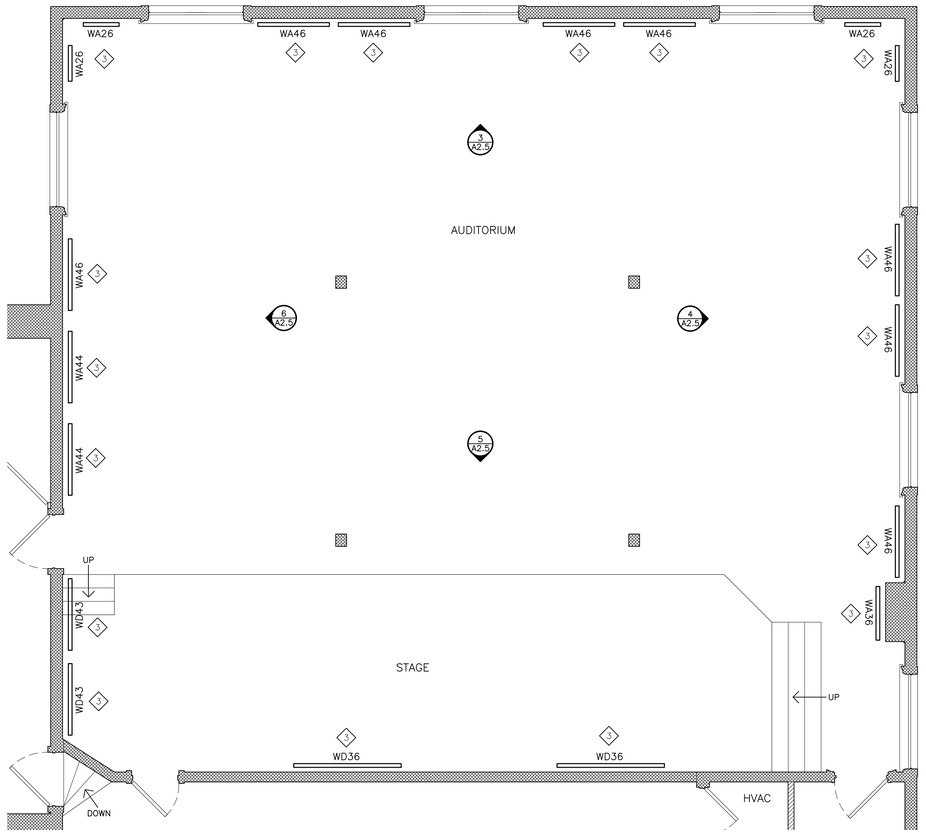
Job:	2506
Sheet:	A2.4R

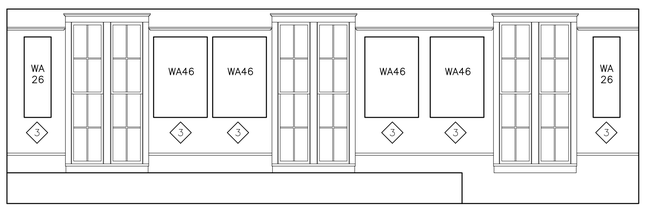
Addendum No.1, Attachment 12



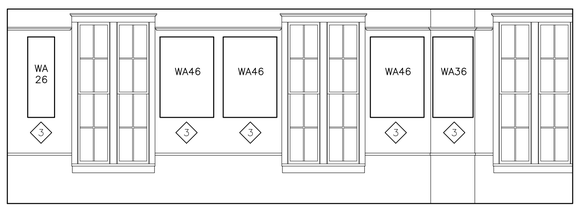
2 BALLARD HALL – 2ND FLR – THEATRE REFLECTED CEILING PLAN – REMODEL – ALTERNATE
SCALE: 1/4" = 1'-0"
0 1 5 10



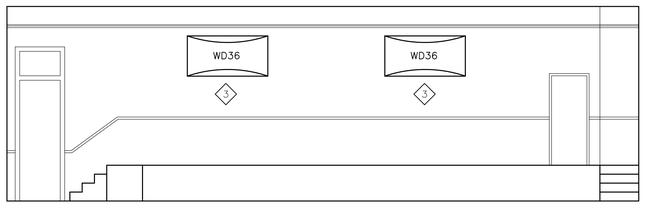
1 BALLARD HALL – 2ND FLR – THEATRE FLOOR PLAN – REMODEL – ALTERNATE
SCALE: 1/4" = 1'-0"
0 1 5 10



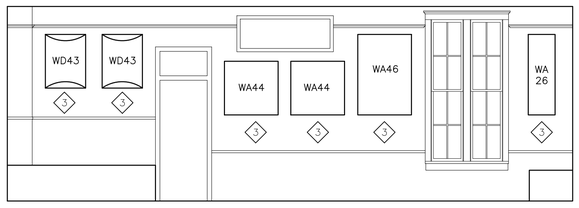
3 THEATRE – INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10



4 THEATRE – INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10



5 THEATRE – INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10



6 THEATRE – INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 1 5 10

SOUND ISOLATION ROOM NOTES

1. INSTALL SOUND ISOLATION WALL PNLS OVER FIN. FLR.
2. COORD. COLOR W/ ARCHITECT.
3. ACOUSTIC PANEL LOCATIONS ARE APPROX. & MAY REQUIRE MINOR ADJUSTMENT BASED UPON ACTUAL JOB SITE CONDITIONS.
4. WALL & CLG SOUND ABSORBER & DIFFUSER PNL COLOR TO BE COORD. W/ ARCHITECT.

SOUND ISOLATION WALL LEGEND:

- CORNER PANEL (PERFORATED)
- 30" WALL PANEL (PERFORATED)
- 30" WALL PANEL (SOLID)
- 30" WALL PANEL (BEAM SUPPORT)
- 30" POWER PANEL
- 30" COMMUNICATION PANEL
- DOOR
- APPROX. LOCATION OF ELEC SERVICE IN CEILING PANEL
- CEILING PLANEL (AIR INTAKE)
- CEILING PLANEL (AIR INTAKE)
- CEILING PLANEL (SPRINKLER KNOCK OUT)
- WA26 2'X6'X3" WALL SOUND ABSORBER
- WA36 4'X6'X3" WALL SOUND ABSORBER
- WA44 4'X4'X3" WALL SOUND ABSORBER
- WA46 4'X6'X3" WALL SOUND ABSORBER
- WD36 3'X6' WALL SOUND DIFFUSER, CONVEX TYPE I
- WD43 4'X3' WALL SOUND DIFFUSER, CONVEX TYPE I
- WD44 4'X4' WALL SOUND DIFFUSER, CONVEX TYPE I
- CL42 4'X2' CEILING SOUND DIFFUSER

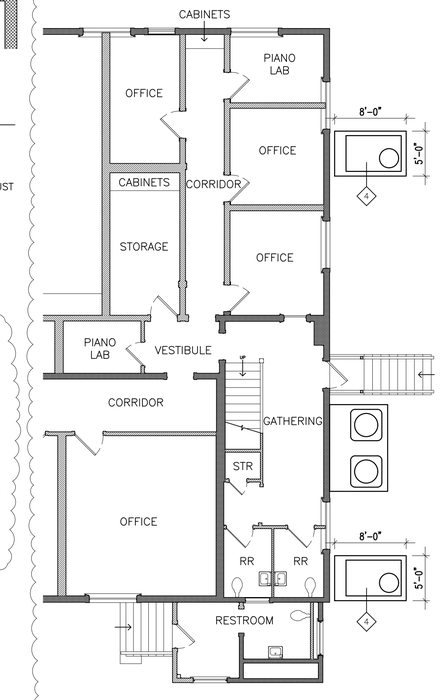
REFLECTED CEILING PLAN LEGEND

- 2'X2'LAY-IN ACOUSTICAL CLG TILE SYSTEM
- CEILING MOUNTED SUPPLY/EXHAUST DIFFUSER, SEE MECH.
- L GRID MOUNTED LIGHT FIXTURE, SEE ELEC.
- EXIST. SPOTLIGHT IN CLG TO REMAIN. LEAVE OUT LAT CLG TILE IN THIS LOCATION.

ALTERNATES KEYED REMODEL NOTES (#)

1. ALTERNATE #1 – NEW ACOUSTIC PANEL SOUND ISOLATION ROOM TO BE INSTALLED IN FUTURE PHASE.
2. ALTERNATE #1 – PROVIDE & INSTALL NEW LAT CLG IN LOCATION SHOWN.
3. ALTERNATE #2 – PROVIDE & INSTALL NEW WALL & CLG MOUNTED SOUND ABSORBER/DIFFUSER PANEL AS SHOWN.
4. ALTERNATE #3 – REMOVE EXISTING PACU UNITS SERVING 1ST FLR OF BALLARD HALL. PROVIDE & INSTALL NEW PACU UNITS – SEE MECH. CONSTRUCT NEW CONC. SUPPORT PAD AS RECOMMENDED BY MANUFACTURER.

1



7 BALLARD HALL – PARTIAL FLR PLAN
1ST FLOOR PLAN – ALTERNATE
SCALE: 1/8" = 1'-0"
0 1 5 10

1

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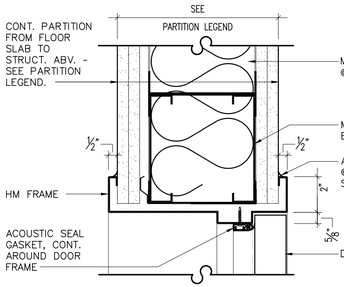
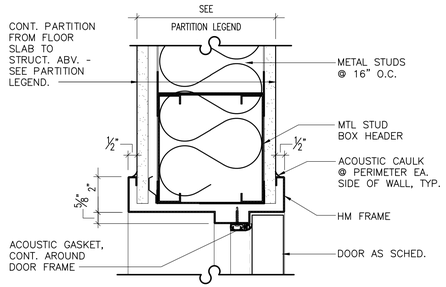
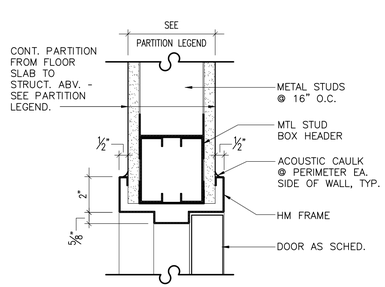
Addendum No.1, Attachment 13



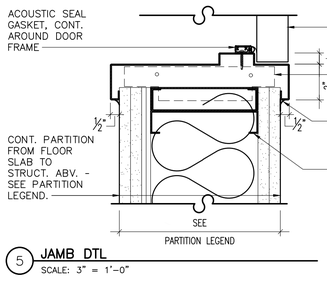
2 HEAD DTL
SCALE: 3" = 1'-0"



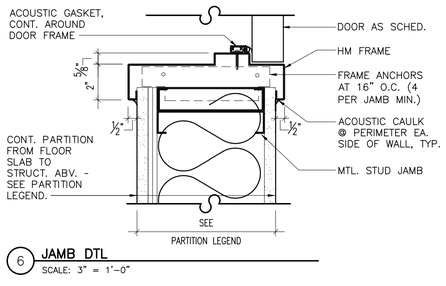
3 HEAD DTL
SCALE: 3" = 1'-0"



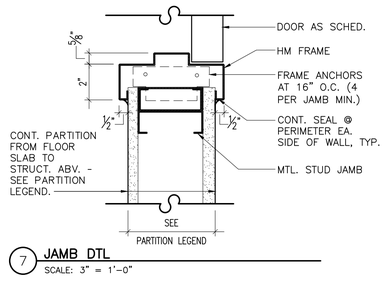
4 HEAD DTL
SCALE: 3" = 1'-0"



5 JAMB DTL
SCALE: 3" = 1'-0"



6 JAMB DTL
SCALE: 3" = 1'-0"



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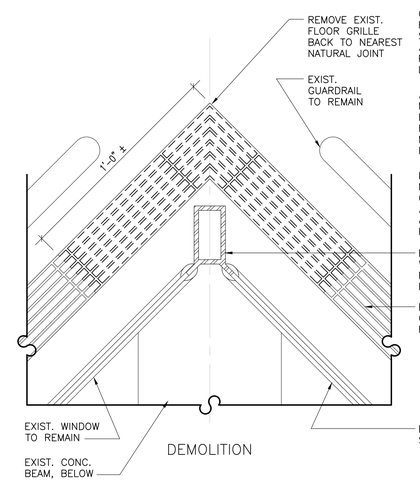
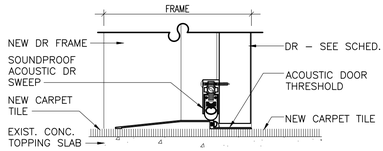
SCALE: 3" = 1'-0"

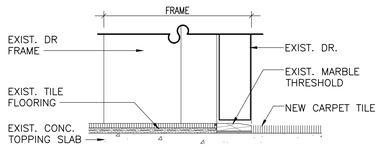


1 PARITION TO WINDOW FRAME CONNECTION DTL
SCALE: 3" = 1'-0"

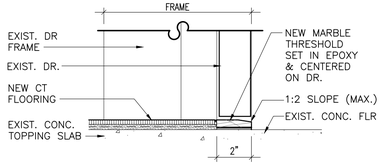
0 1 5 10



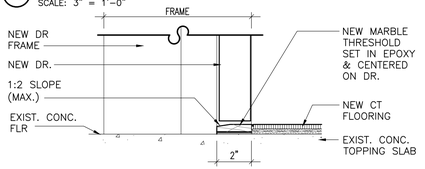
8 THRESHOLD DTL - ACOUSTIC DOOR
SCALE: 3" = 1'-0"



9 THRESHOLD DTL - EXIST DOOR
SCALE: 3" = 1'-0"



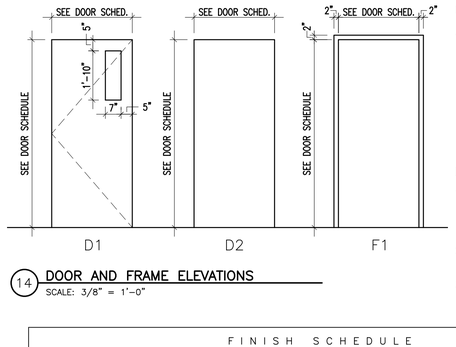
10 THRESHOLD DTL - EXIST DOOR
SCALE: 3" = 1'-0"



11 THRESHOLD DTL - NEW DOOR
SCALE: 3" = 1'-0"

FINISH LEGEND:

AU#1	ACOUSTIC CLG TILE UNIT
AU#2	ACOUSTIC CLG TILE UNIT
CONC	CONCRETE
PT	CARPET
CT	CERAMIC TILE
GB	GYPSUM BOARD
PT	PAINT
RB	RUBBER BASE



14 DOOR AND FRAME ELEVATIONS
SCALE: 3/8" = 1'-0"

DOOR SCHEDULE GENERAL NOTES:

A. CONTRACTOR SHALL SURVEY ALL DOORS TO RECEIVE NEW HARDWARE & SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXIST. CONDITIONS & THE INFORMATION PROVIDED IN THE CONSTRUCTION DOCUMENTS. UNLESS NOTED OTHERWISE, NEW HARDWARE SHALL MATCH THE FUNCTION (CLASSROOM, OFFICE, DEADBOLT, ETC.) OF THE EXISTING HARDWARE BEING REPLACED.

DOOR SCHEDULE REMARK NOTATION LEGEND:

1. EXISTING DR & FRAME TO REMAIN & BE PROTECTED DURING CONSTRUCTION. PAINT EXIST. DOOR FRAME. MODIFY DOOR AS REQ'D TO INSTALL NEW HARDWARE.
2. NEW DR & FRAME IN NEW OPNG IN NEW PARTITION.
3. NEW OPNG (DR & FRAME) TO HAVE MIN. STC RATING OF 48.

DOOR SCHEDULE

DR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR TYPE	DOOR MAT	FRAME MAT	FRAME TYPE	FRAME HEAD	FRAME JAMB	FRAME T.HOLD	RTG	HDWR SET	REMARKS
102A	3'-0"	7'-0"	1 3/4"	D1	HM	HM	F1	4 A5.2	7 A5.2	11 A5.2	–	2	2
103A	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	6	1
103B	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	8	1
103C	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	7	1
103D	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	8	1
103E	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	8	1
103F	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	8	1
201A	3'-0"	7'-0"	1 3/4"	D1	HM	HM	F1	2 A5.2	5 A5.2	8 A5.2	60	4	2, 3
201B	3'-0"	7'-0"	1 3/4"	D2	HM	HM	F1	2 A5.2	5 A5.2	8 A5.2	60	4	2, 3
203A	3'-0"	7'-0"	1 3/4"	D1	HM	HM	F1	3 A5.2	6 A5.2	8 A5.2	60	3	2, 3
204A	EXIST. DOOR TO REMAIN					EXIST. TO REMAIN				NO	–	8	1
204B	3'-0"	7'-0"	1 3/4"	D2	HM	HM	F1	4 A5.2	7 A5.2	NO	–	1	2
205A	3'-0"	7'-0"	1 3/4"	D2	HM	HM	F1	4 A5.2	7 A5.2	NO	–	1	2

FINISH SCHEDULE

RM #	RM NAME	FLR FIN	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING (HGT.)	REMARKS
101	PRACTICE SUITE	CPT	RB	EXIST. CONC./ PT	EXIST. GB/PT	EXIST. CONC./ PT	EXIST. CONC/PT	N/A	3
102	CUSTODIAL CLOSET	CONC	N/A	GB/PT	GB/PT	GB/PT	GB/PT	N/A	–
103	HALLWAY	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	EXIST.	–
105	WOMENS RR	CT	CT	GB/PT	GB/PT	GB/PT	GB/PT	AU#2 (8'-0")	1
106	MENS RR	CT	CT	GB/PT	GB/PT	GB/PT	GB/PT	AU#2 (8'-0")	1
201	REHEARSAL HALL	CPT	RB	GB/PT	GB/PT	EXIST. CONC./PT	GB/PT	AU#1 (9'-4")	2
202	OFFICE SUITE	CPT	RB	GB/PT	GB/PT	EXIST. CONC./PT	GB/PT	N/A	2
203	HALLWAY	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	N/A	3
204	MUSIC STORAGE	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	N/A	2
205	ELEC/NETWK EQUIP	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	N/A	2

FINISH REMARKS:

1. EPOXY PAINT
2. PT BOTH INT. & EXT. OF NEW PARTITION WALLS
3. SEE SHEETS A2.4 & A2.5 FOR ALTERNATES

GENERAL FINISH NOTES:

A. PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS (OWNER & CONTRACTOR SUPPLIED). G.C. SHALL COORDINATE THE INSTALLATION OF BLKG FOR OWNER SUPPLIED EQUIPMENT W/ OWNER PRIOR TO INSTALL.

B. TYP, NEW PARTITIONS ARE DIMENSIONED FROM FACE OF WALL. FURRED WALLS & PLUMBING WALLS ARE DIMENSIONED FROM FACE TO FACE OF WALL FINISH OR FROM STRUCT. REF POINT TO FIN. FACE. WHERE PARTITIONS ARE NOT LOCATED BY DIMENSIONS ON THE PLANS, THE LOCATION SHALL BE DETERMINED BY THE INDICATED RELATIONSHIP TO COLUMN FACE, COLUMN CENTER LINE, OR OTHER FIXED PARTITIONS.

GENERAL FINISH NOTES (CONT):

C. REFER TO ELEC SHTS FOR LOCATION OF ILLUMINATED EXIT SIGNAGE.

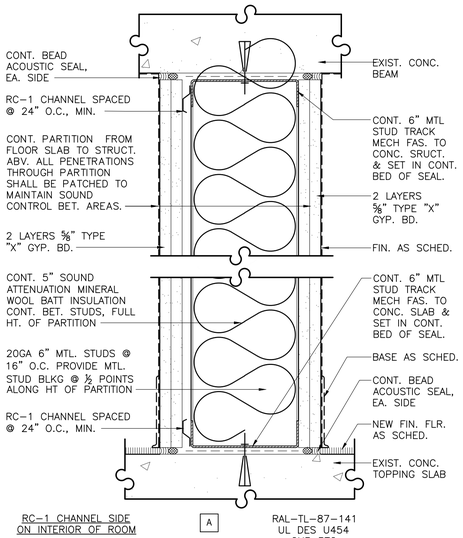
D. SEE THIS SHEET FOR PARTITION TYPE DEFINITIONS.

E. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL MATERIALS IN THE WORK AREA.

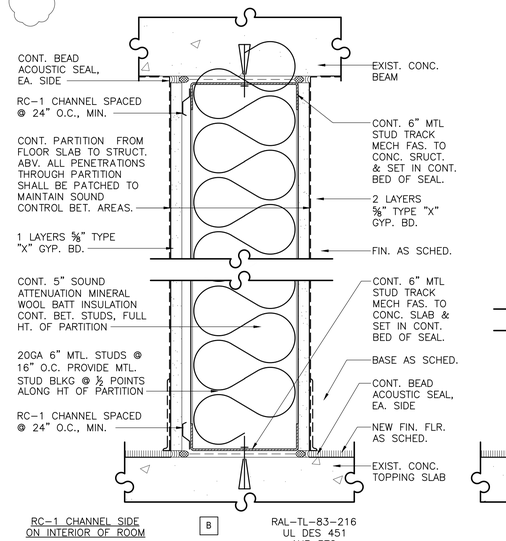
F. ALL GYPSUM WALL BOARD AND MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE 5/8" TYPE "X," UNLESS NOTES OTHERWISE.

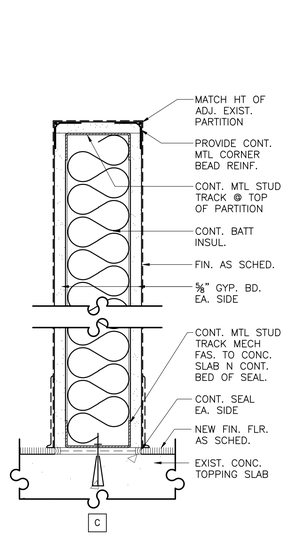
G. REFER TO SPECS FOR PREPARATION & PRIMER REQ. FOR EPOXY PAINTED SURFACES TO BE RECOATED W/ EPOXY PAINT.

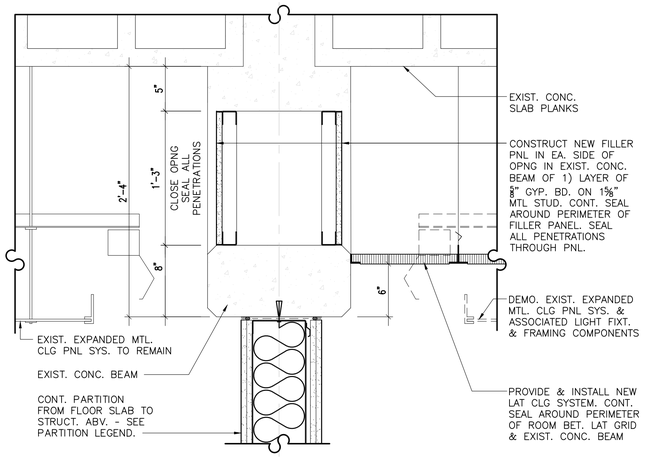
H. WHERE NEW EPOXY PAINT IS TO BE INSTALLED, CONTINUE EPOXY PAINT FROM ALL NEW FINISHES TO NEXT INSIDE CORNER OR WALL/CLG INTERSECTION.



12 PARTITION LEGEND
SCALE: 3" = 1'-0"







13 SECTION DTL THROUGH CONC. BEAM
SCALE: 1 1/2" = 1'-0"

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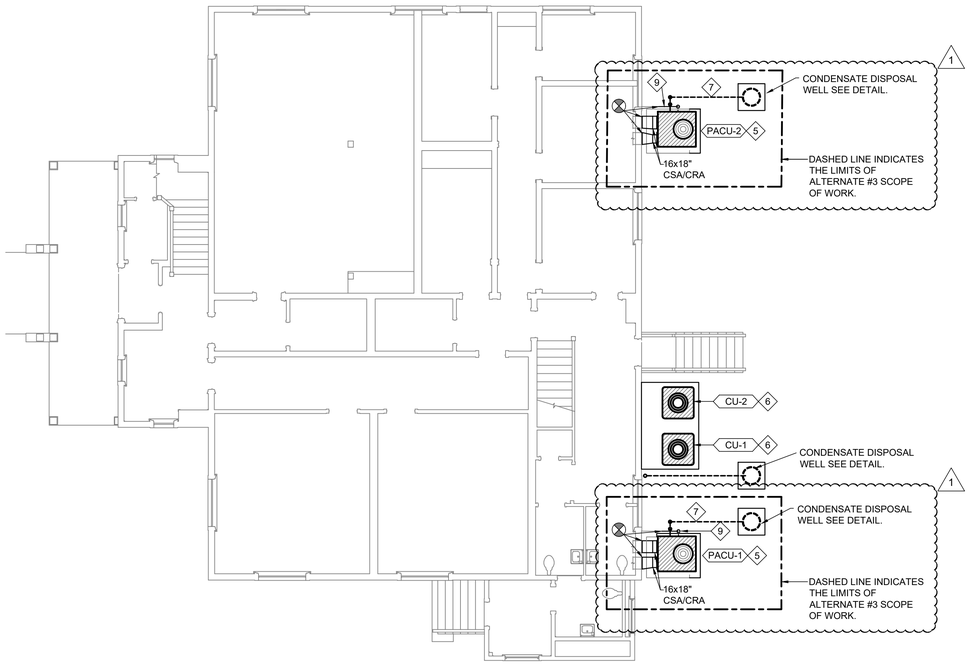
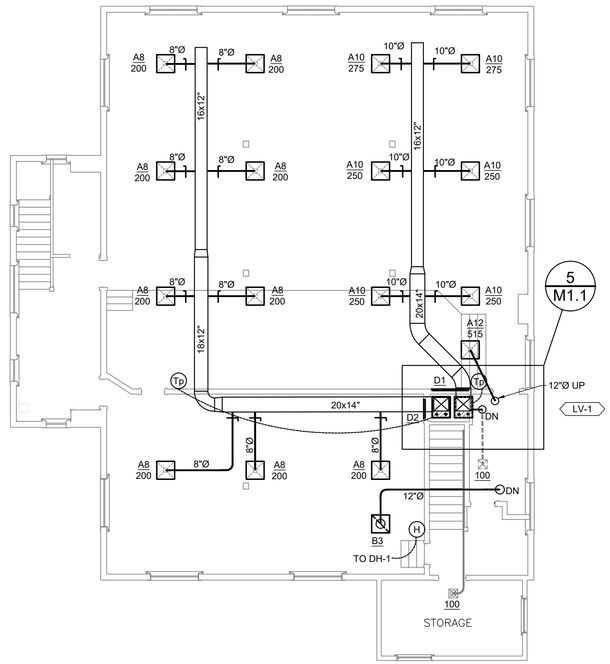
Addendum No.1, Attachment 14



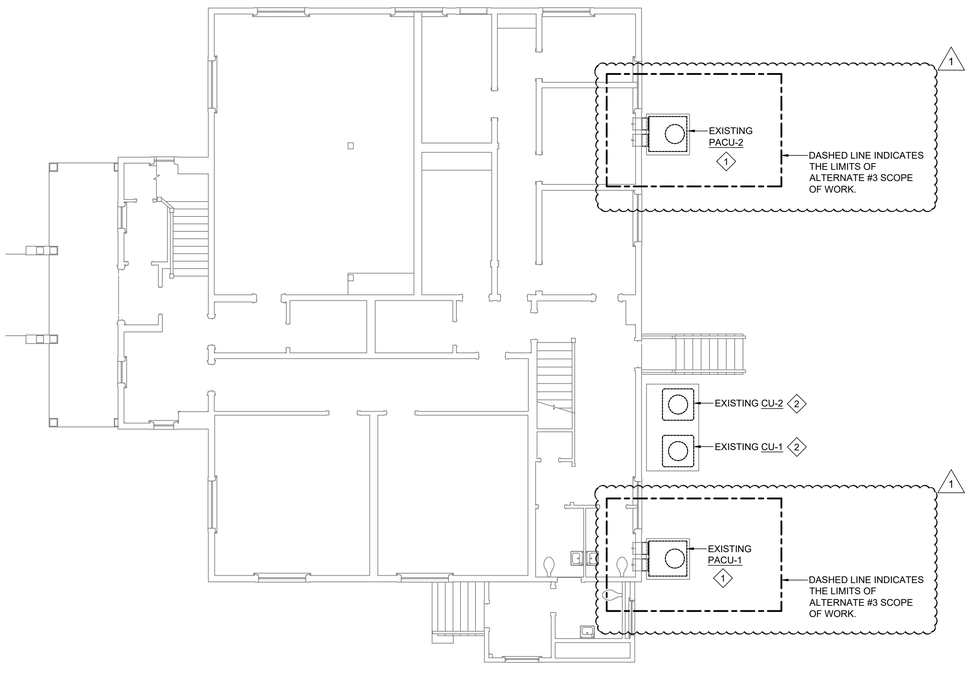
3 BALLARD HALL - 1ST FLR - THEATRE FLOOR PLAN - RENOVATION - HVAC
SCALE: 1/8" = 1'-0"



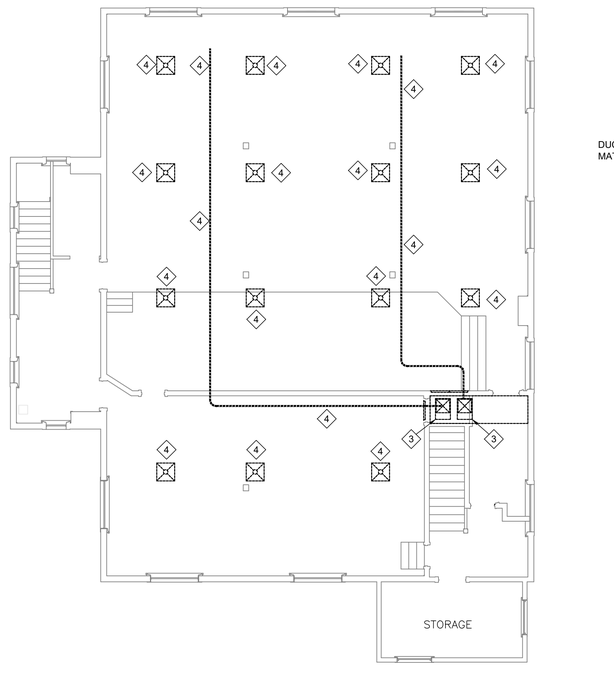
4 BALLARD HALL - 2ND FLR - THEATRE FLOOR PLAN - RENOVATION - HVAC
SCALE: 1/8" = 1'-0"

PLAN NOTES:

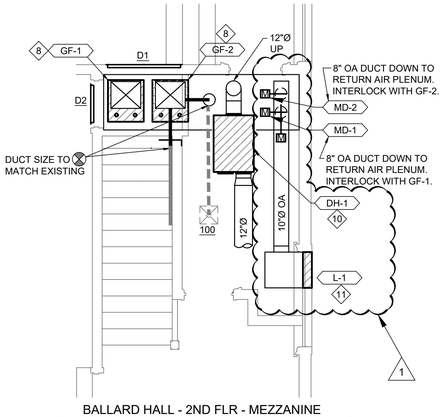
1. ~~ALTERNATE #3.~~ EXISTING PACU TO BE REMOVED AND REPLACED. CONCRETE PAD TO BE LEVEL AND EXTEND AS REQUIRED FOR NEW UNIT. REMOVE POWER/CONTROL WIRING, GAS PIPING, CONDENSATE PIPING, ETC. AND PROTECT FOR FUTURE CONNECTION.
2. EXISTING CONDENSING UNIT AND REFRIGERANT PIPING TO BE REMOVED AND REPLACED. CONCRETE PAD TO BE LEVEL AND EXTEND AS REQUIRED FOR NEW UNITS. REMOVE POWER/CONTROLS WIRING, AND PROTECT FOR FUTURE CONNECTION.
3. EXISTING GAS FURNACE SPLIT SYSTEM, REFRIGERANT PIPING, CONDENSATE PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES, SHALL BE REMOVED AND REPLACED. REPLACE THE EXISTING WOOD EQUIPMENT SUPPORT PLATFORM/STAND WITH A NEW STRUCTURALLY ADEQUATE SUPPORT STAND WITH FULLY LINE WALLS & FLOOR OF BUILT-UP PLENUM W/1" 1-1/2 P.C.F. F/G DUCTLINER FASTENED TO SURFACES W/FULL COVERAGE ADHESIVE.
4. EXISTING DUCTWORK, HANGERS, AIR DISTRIBUTIONS DEVICES, ETC. TO BE REMOVED.
5. ~~ALTERNATE #3.~~ PROVIDE AND INSTALL NEW PACU. RECONNECT TO EXISTING ELECTRICAL, GAS PIPING, AND DUCTWORK - FIELD VERIFY ALL DUCT AND PIPING CONNECTIONS AND MODIFY AS REQUIRED.
6. PROVIDE AND INSTALL NEW CONDENSING UNIT ON CONCRETE SUPPORT PAD. ROUTE NEW REFRIGERANT PIPING AND CONTROLS TO INDOOR UNIT WITH PAINTABLE PIPE HIDE COVER. MODIFY EXISTING ELECTRICAL SERVICE AS REQUIRED.
7. TRAP AND VENT CONDENSATE DRAIN (SEE DETAIL) AT PACU. INCREASE TO 1-1/2" AND RUN BELOW GRADE TO CONDENSATE DISPOSAL WELL.
8. PROVIDE AND INSTALL NEW GAS FURNACE WITH CONCENTRIC VENT KIT UP THRU ROOF (THRU EXISTING FLUE THRU ROOF PENETRATION). TRAP AND VENT CONDENSATE DRAIN (SEE DETAIL) AT INDOOR GAS FURNACE AND EVAP. COIL. INCREASE TO 1-1/2" AND DROP DOWN WALL WITH PAINTABLE PIPE HIDE COVER. RUN BELOW GRADE TO CONDENSATE DISPOSAL WELL.
9. CONNECT NEW PACU TO EXISTING 3/4" GAS WITH NEW GAS SHUT OFF VALVE. DIRT LEG, AND UNION.
10. DEHUMIDIFIER SUSPENDED FROM STRUCTURAL. TRAP AND VENT CONDENSATE DRAIN (SEE DETAIL) AT DEHUMIDIFIER. CONNECT TO NEW 1-1/2" CONDENSATE DRAIN PIPING.
11. REMOVE PORTION OF EXISTING WINDOW SASH/FRAME AS REQUIRED WITHIN EXISTING WALL OPENING. FIELD VERIFY EXISTING OPENING DIMENSIONS. PROVIDE NEW LOUVER AND STRUCTURAL SUPPORT BLOCKING WITH INSULATED PANEL TO CLOSE GAP BETWEEN LOVER AND EXISTING OPENING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND FINISHED.



1 BALLARD HALL - 1ST FLR - THEATRE FLOOR PLAN - DEMOLITION - HVAC
SCALE: 1/8" = 1'-0"



2 BALLARD HALL - 2ND FLR - THEATRE FLOOR PLAN - DEMOLITION - HVAC
SCALE: 1/8" = 1'-0"



BALLARD HALL - 2ND FLR - MEZZANINE PLAN - RENOVATION - HVAC
5 SCALE: 1/4" = 1'-0"

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JASON CHRISTOPHER GROSS LICENSED PROFESSIONAL ENGINEER 17087 06.11.26 STATE OF MISSISSIPPI

DEPARTMENT OF MUSIC UPGRADES
COLEMAN LIBRARY • BALLARD HALL
TOUGALOO COLLEGE
West County Line Rd., Tougaloo, MS 39174

Date:	06/11/2026
Scale:	AS NOTED
Drawn:	KH/DG
Approved:	JG
Job:	2506
Sheet:	M1.1

ENGINEERING RESOURCE GROUP, INC.
ERG:26.110

Addendum No.1,
Attachment 15

ADDENDUM

⚠ 2026-6-25 ADDENDUM #1 – PACU ALTERNATE, LAY-IN ALTERNATE, AND BALLARD GROUNDING

KEYED NOTES

Mark	Description
1	SEE KEYED NOTE 1 ON SHEET ED0.1.
2	ALL REPLACED BREAKERS ARE TO BE SIEMENS TYPE BQ BREAKERS.
3	ALL REPLACED BREAKERS ARE TO BE SQUARED D QOB BREAKERS.
4	RELOCATE EXISTING 50/2 BREAKER AND USE AT CIRCUIT LOCATION SHOWN.
⚠ 5	DEMOLITION AND REPLACEMENT OF PACKAGED AIR UNIT ARE UNDER ALTERNATE #3. NEW BREAKER SIZE SHOW IS BASED OFF OF NEW PACU BREAKER REQUIREMENTS UNDER ALTERNATE #3. UNDER BASE BID, RETAIN EXISTING BREAKERS AND CIRCUITRY TO EXISTING PACU'S.

PANEL **LDP2A** — LOCATION: LIBRARY 2ND FLOOR IT ROOM | VOLT: 208Y/120V, 3Ø, 4W | BUS: 400A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: SURFACE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 65,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	125	3	L2A	3.2	9.0					L3A	125	3	2
-	-	-	-			3.3	9.0			-	-	-	-
-	-	-	-					0.7	9.0	-	-	-	-
3	125	3	L3B	9.0	0.0					SPARE 125A BREAKER	125	3	4
-	-	-	-			9.0	0.0			-	-	-	-
-	-	-	-					9.0	0.0	-	-	-	-
5	225	3	SPARE	0.0	0.0					SPARE 225A BREAKER	225	3	6
-	-	-	SPARE			0.0	0.0			-	-	-	-
-	-	-	SPARE					0.0	0.0	-	-	-	-
7	225	3	SPARE	0.0	0.0					SPARE 225A BREAKER	225	3	8
-	-	-	SPARE			0.0	0.0			-	-	-	-
-	-	-	SPARE					0.0	0.0	-	-	-	-
9	100	3	SPD	0.0	0.0					SPACE	-	-	10
11	-	-	-			0.0	0.0			SPACE	-	-	12
13	-	-	-					0.0	0.0	SPACE	-	-	14
15	-	-	SPACE	0.0	0.0					SPARE 125A BREAKER	125	3	16
17	-	-	SPACE			0.0	0.0			-	-	-	18
19	-	-	SPACE					0.0	0.0	-	-	-	20
21	-	-	SPACE	0.0	0.0					SPACE	-	-	22
23	-	-	SPACE			0.0	0.0			SPACE	-	-	24
25	-	-	SPACE					0.0	0.0	SPACE	-	-	26
27	-	-	SPACE	0.0	0.0					SPACE	-	-	28
29	-	-	SPACE			0.0	0.0			SPACE	-	-	30
31	-	-	SPARE					0.0	0.0	SPACE	-	-	32
TOTAL				21.2		21.3		18.7					

PANEL **L2A** — LOCATION: LIBRARY 2ND FLOOR IT ROOM | VOLT: 208Y/120V, 3Ø, 4W | BUS: 250A | LUG LOCATION: BOTTOM FEED | MAIN BUS: 125A MAIN BREAKER | MOUNTING: SURFACE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LIGHTS- REHEARSAL HALL & HALLWAY 201,204	0.3	0.0					SPD	60	3	2
3	20	1	RECS.- ELEC/NETWK 205			0.2	0.0			-	-	-	4
5	20	1	RECS.-MUSIC STOR. 204					0.5	0.0	-	-	-	6
7	20	1	REC. RM 383 (IT)	1.0	0.7					RECS.- HALL 203	20	1	8
9	20	1	REC RM 383			1.0	1.0			RECORDING STUDIO 202B	20	1	10
11	20	1	RECS.-WEST REHEARSAL HALL 201					0.4	1.0	DR GALBREATH'S OFFICE 202A	20	1	12
13	20	1	RECS.-NORTH REHEARSAL HALL 201	0.4	0.0					SPARE	20	1	14
15	20	1	REC.-REHEARSAL HALL 201 TV OUTLET			0.5	0.0			SPARE	20	1	16
17	20	1	RECS.-NORTH REHEARSAL HALL 201					0.4	0.0	SPARE	20	1	18
19	20	1	RECS.-EAST REHEARSAL HALL 201	0.4	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	0					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
31	20	1	SPARE	0.0	0.0					SPARE	20	1	32
33	20	1	SPARE			0.0	0.0			SPARE	20	1	34
35	20	1	SPARE					0.0	0.0	SPARE	20	1	36
37	20	1	SPARE	0.0	0.0					SPARE	20	1	38
39	20	1	SPARE			0.0	0.0			SPARE	20	1	40
41	20	1	SPARE					0.0	0.0	SPARE	20	1	42
TOTAL				2.7		2.7		2.3					

PANEL **LP-1A** — LOCATION: LIBRARY MENS RESTROOM ENTRANCE | VOLT: 208Y/120V, 3Ø, 4W | BUS: 250A | LUG LOCATION: BOTTOM FEED | MAIN BUS: 125A MAIN BREAKER | MOUNTING: RECESSED | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LIGHTS, STAFF LOUNGE	1.0	1.0					XFMR	20	1	22
2	20	1	LIGTHS, STAFF LOUNGE			1.0	1.0			CONFLICTING MARKINGS	20	1	23
3	20	1	LIGTHS, STAFF LOUNGE					1.0	1.0	CONFLICTING MARKINGS	20	1	24
4	20	1	LIGHTS LIBRARY WORK AREA	1.0	1.0					CONFLICTING MARKINGS	20	1	25
5	20	1	LIGHTS LIBRARY WORK AREA			1.0	1.0			CONFLICTING MARKINGS	20	1	26
6	20	1	LIGHTS LIBRARY WORK AREA					1.0	1.0	CONFLICTING MARKINGS	20	1	27
7	20	1	LIGHTS LIBRARY WORK AREA	1.0	1.0					NITES LTS. NORTH HALF PERIOD, REF.	20	1	28
8	20	1	LIGHTS LIBRARY WORK AREA			1.0	1.0			NITES LTS. SOUTH HALF PERIOD, REF.	20	1	29
9	20	1	LIGHTS LIBRARY WORK AREA					1.0	1.0	NITES LTS. LIBRARY WK. & STAFF LOUG.	20	1	30
10	20	1	LTS. LIBRARIAN, SEC., ARCHIVES	1.0	1.0					LTS. STAFF LOUNGE, TOILETS 1-25	20	1	31
11	20	1	LTS. LIBRARIAN, SEC., ARCHIVES			1.0	1.0			F.A.	20	1	32
12	20	1	LTS. LIBRARIAN, SEC., ARCHIVES					1.0	1.0	LTS. MECH RM. REC. MECH RM.	20	1	33
13	20	1	LTS. REF.WK.,STAFF CONF. SUPPLY RM.	1.0	1.0					LTS. STAIR WELL # 2	20	1	34
14	20	1	LTS. REF.WK.,STAFF CONF. SUPPLY RM.			1.0	1.0			LTS. STAIR WELL # 2	20	1	35
15	20	1	LTS. REF.WK.,STAFF CONF. SUPPLY RM.					1.0	1.0	REC. LIBRARIAN,M ARCHIVES, SEC.	20	1	36
16	20	1	COMP	1.0	1.0					EX. FAN STAFF CONF. REC. ARCHIVES	20	1	37
17	20	1	COMP			1.0	1.0			FL. BOXES REF. WK. SO. PERIOD, REF.	20	1	38
18	20	1	COMP					1.0	1.0	FL. BOXES LOUNGE, NO. PERIOD, REF.	20	1	39
19	20	1	COMP	1.0	1.0					WATER CHILLER MECH RM. 1-10	20	1	40
20	20	1	COMP			1.0	1.0			WATER CHILLER ARCHIVES WK. 1-21	20	1	41
21	20	1	COMP					1.0	0.0	SPACE	20	1	42
TOTAL				14.0		14.0		13.0					

PANEL **LP-1C** — LOCATION: LIBRARY CUSTODIAL CLOSET | VOLT: 208Y/120V, 3Ø, 4W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: SURFACE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
(3) 1	20	1	LIGHTS- PRACTICE SUITE	0.3	1.0					PRACTICE RM 101A	20	1	7 (3)
(3) 2	20	1	LIGHTS- REST ROOMS			0.2	1.0			PRACTICE RM 101B	20	1	8 (3)
(3) 3	20	1	RECS.- 101 & 103					0.7	1.0	PRACTICE RM 101C	20	1	9 (3)
(3) 4	20	1	REC. CUST. CLO. 102	0.5	0.4					RECS. REST ROOM	20	1	10 (3)
(3) 5	20	1	PRACTICE RM 101D			1.0	1.0			EX. FAN #4 MECH ROOM 1-10	20	1	11
(3) 6	20	1	PRACTICE RM 101E					1.0	0.2	REC.- LP-1A SERVICE REC	20	1	13
-	20	1	SPACE	0.0	1.0					FL. BOXES LIBRARY WK.AREA NW	20	1	15
-	20	1	SPACE			0.0	1.0			REC. & FL. BOXES 1-32	20	1	17
-	20	1	SPACE					0.0	0.0	SPACE	20	1	-
-	20	1	SPACE	0.0	0.0					SPACE	20	1	-
TOTAL				3.1		4.2		2.9					

PANEL **EM-X** — LOCATION: LIBRARY BASEMENT ELECTRICAL ROOM | VOLT: 208Y/120V, 3Ø, 4W | BUS: 250A | LUG LOCATION: BOTTOM FEED | MAIN BUS: 125A MAIN BREAKER | MOUNTING: SURFACE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	BRACKET LTS., LOUNGE AND STAIRS	1.0	1.0					NITE LIGHTS FIRST FLOOR	20	1	10
2	20	1	EXITS ENTRY DOOR AND STAIRS #1			1.0	1.0			NITE LIGHTS SECOND FLOOR	20	1	11
3	20	1	SPARE					0.0	1.0	NITE LIGHTS THIRD FLOOR	20	1	12
4	20	1	SPARE	0.0	1.0					UNLABELED LOAD	20	1	13
5	20	1	SMOKE DETECTOR PANEL			1.0	1.0			UNLABELED LOAD	20	1	14
6	20	1	SMOKE DETECTOR PANEL					1.0	1.0	UNLABELED LOAD	20	1	15
7	20	1	SPARE	0.0	1.0					UNLABELED LOAD	20	1	16
8	20	1	SPARE			0.0	1.0			UNLABELED LOAD	20	1	17
9	20	1	NITE LTS., EQUIP. RM., LOUNGE AND VEST					1.0	0.0	SPACE	20	1	-
-	20	1	SPACE	0.0	0.0					SPACE	20	1	-
TOTAL				4.0		5.0		4.0					

(1) PANEL **PA** — LOCATION: BALLARD HALL ENTRY/FOYER | VOLT: 240/120V, 1Ø, 3W | BUS: 400A | LUG LOCATION: TOP FEED | MAIN BUS: 300A MAIN BREAKER | MOUNTING: RECESSED | UL LISTED FOR SERVICE ENTRANCE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1	L1	L2	L2	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	UNLABELED LOAD	0.8	6.8			UNLABELED LOAD	70	2	16
2	20	1	UNLABELED LOAD			0.8	5.7	-	-	-	17
3	20	1	UNLABELED LOAD	0.8	0.8			UNLABELED LOAD	20	1	18
4	20	1	UNLABELED LOAD			0.8	0.8	UNLABELED LOAD	20	1	19
5	20	1	OUTDOOR LIGHTS	0.8	0.8			UNLABELED LOAD	20	1	20
6	20	1	UNLABELED LOAD			0.8	3.0	CU-1	50	2	21 (2)
7	20	1	UNLABELED LOAD	0.8	3.0			-	-	-	22
8	20	1	UNLABELED LOAD			0.8	3.2	PACU-1	50	2	23 (2) (5) ⚠1
9	20	1	UNLABELED LOAD	0.8	3.2			-	-	-	24
10	20	1	UNLABELED LOAD			0.8	0.6	LIGHTS- AUDITORIUM	20	1	25 (2)
(2) 11	25	1	GF-1	1.9	0.9			RECS.- AUDITORIUM	20	1	26 (2)
(2) 12	25	1	GF-2			1.9	4.3	PACU-2	60	2	27 (2) (5) ⚠1
(4) 13	50	2	CU-2	3.0	4.3			-	-	-	28
14	-	-	-			3.0	0.8	UNLABELED LOAD	20	1	29
(2) 15	20	1	DH-1	1.8	0.8			UNLABELED LOAD	20	1	30
TOTAL				31.3		27.3					

PANEL **PB** — LOCATION: BALLARD HALL AUDITORIUM CONTROL ROOM | VOLT: 240/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: TOP FEED | MAIN BUS: MAIN DISCONNECT | MOUNTING: SURFACE | EXISTING TO REMAIN | PANELBOARD SCCR RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1	L1	L2	L2	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	30	1	UNLABELED LOAD	0.5	0.5			UNLABELED LIGHT LOAD	20	1	2
3	20	1	UNLABELED LOAD			0.5	0.5	BACK LIGHT	20	1	4
5	20	1	UNLABELED LOAD	0.5	0.5			STAGE LIGHTS	20	1	6
7	20	1	UNLABELED LOAD			0.5	3.5	SPARE	60	2	8
9	20	1	BACK LIGHT	0.5	3.5			-	-	-	10
11	20	1	SPARE			0.0	0.0	SPARE	20	1	12
13	30	1	SPARE	0.0	0.5			UNLABELED LOAD	30	1	14
15	-	-	SPACE			0.0	0.5	UNLABELED LOAD	30	1	16
17	-	-	SPACE	0.0	0.0			SPACE	-	-	18
19	-	-	SPACE			0.0	0.0	SPACE	-	-	20
TOTAL				6.8		5.7					

1 E0.2 PANEL SCHEDULES
Scale: NONE

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DEPARTMENT OF MUSIC UPGRADES
COLEMAN LIBRARY • BALLARD HALL
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West County Line Rd., Tougaloo, MS 39174

Date: 06/11/2026
Scale: AS NOTED
Drawn: JCM, MWM
Approved: GAC
Job: 2506
Sheet: E0.2

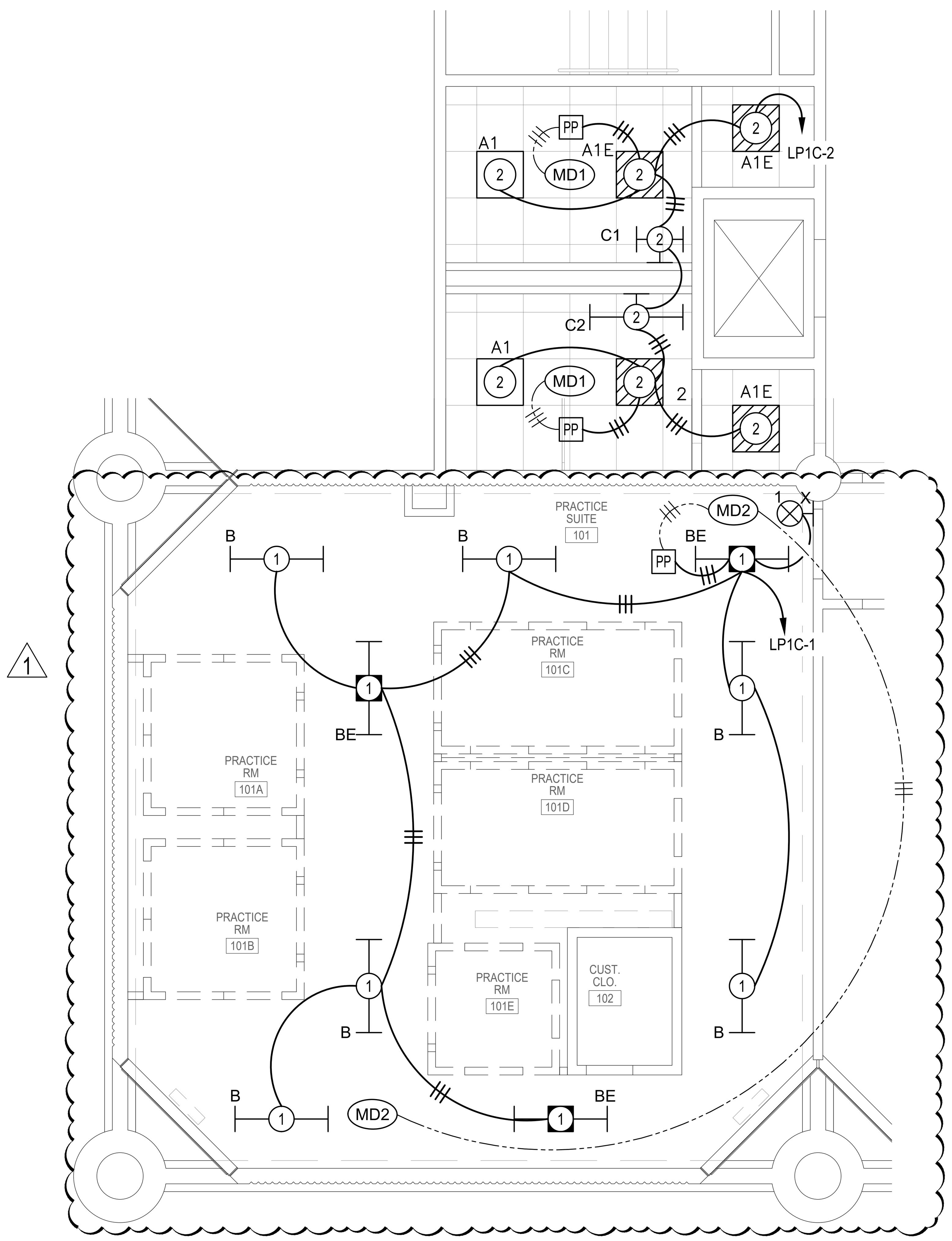
Addendum No.1, Attachment 16

KEYED NOTES

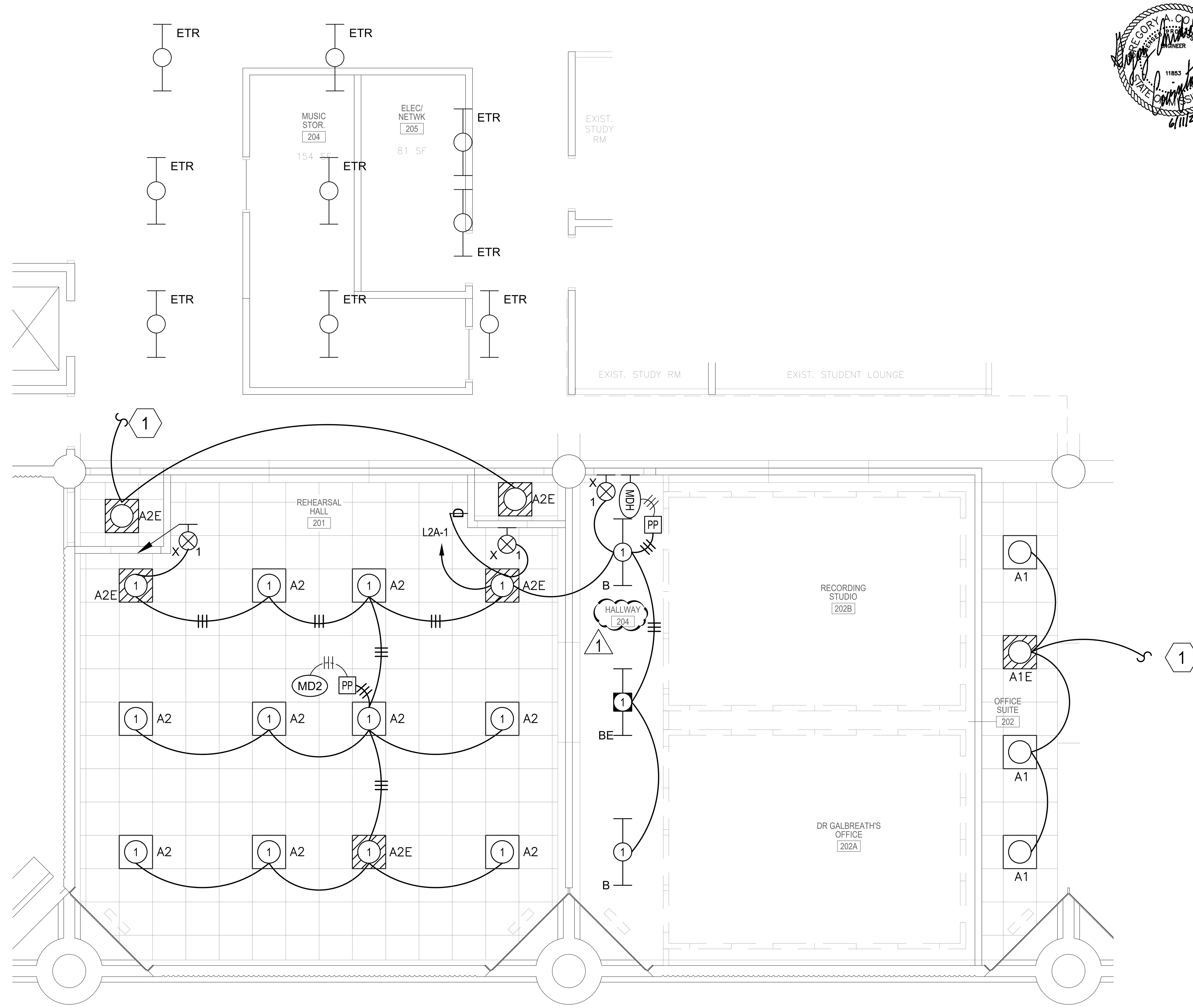
Mark	Description
1	CONNECT FIXTURE TO EXISTING LIGHTING CIRCUITRY IN ADJACENT AREA. PROVIDE AN UNSWITCHED HOT FOR EMERGENCY BATTERY PACK.

ADDENDUM

1 2026-6-25 ADDENDUM #1 – PACU ALTERNATE, LAY-IN ALTERNATE, BALLARD GROUNDING



1 E1.1 LIBRARY FIRST FLOOR LIGHTING PLAN BASE BID
Scale: 1/4" = 1'- 0"



2 E1.1 LIBRARY SECOND FLOOR LIGHTING PLAN BASE BID
Scale: 1/4" = 1'- 0"

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DEPARTMENT OF MUSIC UPGRADES
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Date: 06/11/2026
Scale: AS NOTED
Drawn: JCM, MWM
Approved: GAC
Job: 2506
Sheet: E1.1

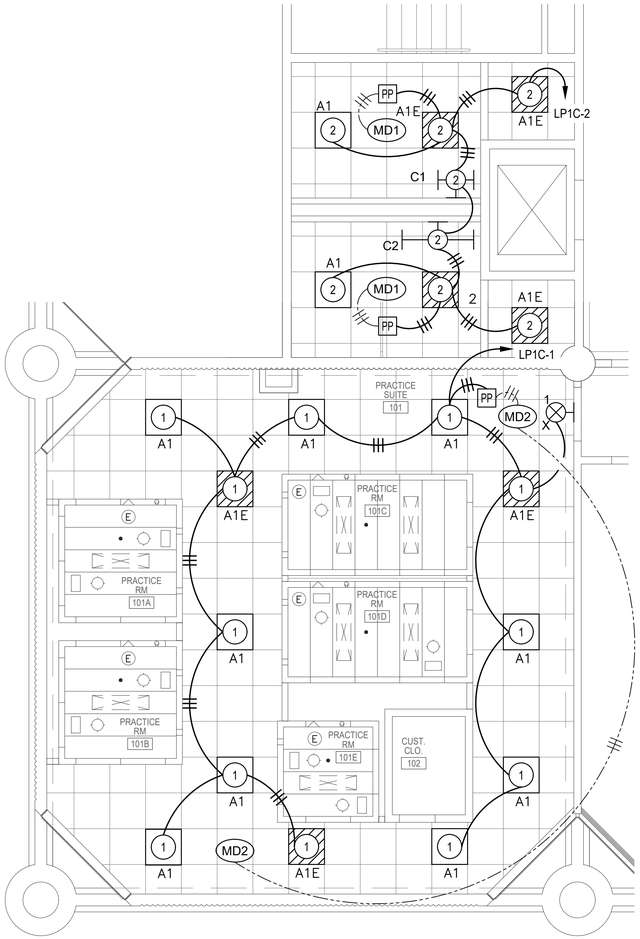
Addendum No.1, Attachment 17

KEYED NOTES

Mark	Description
1	CONNECT FIXTURE TO EXISTING LIGHTING CIRCUITRY IN ADJACENT AREA. PROVIDE AN UNSWITCHED HOT FOR EMERGENCY BATTERY PACK.

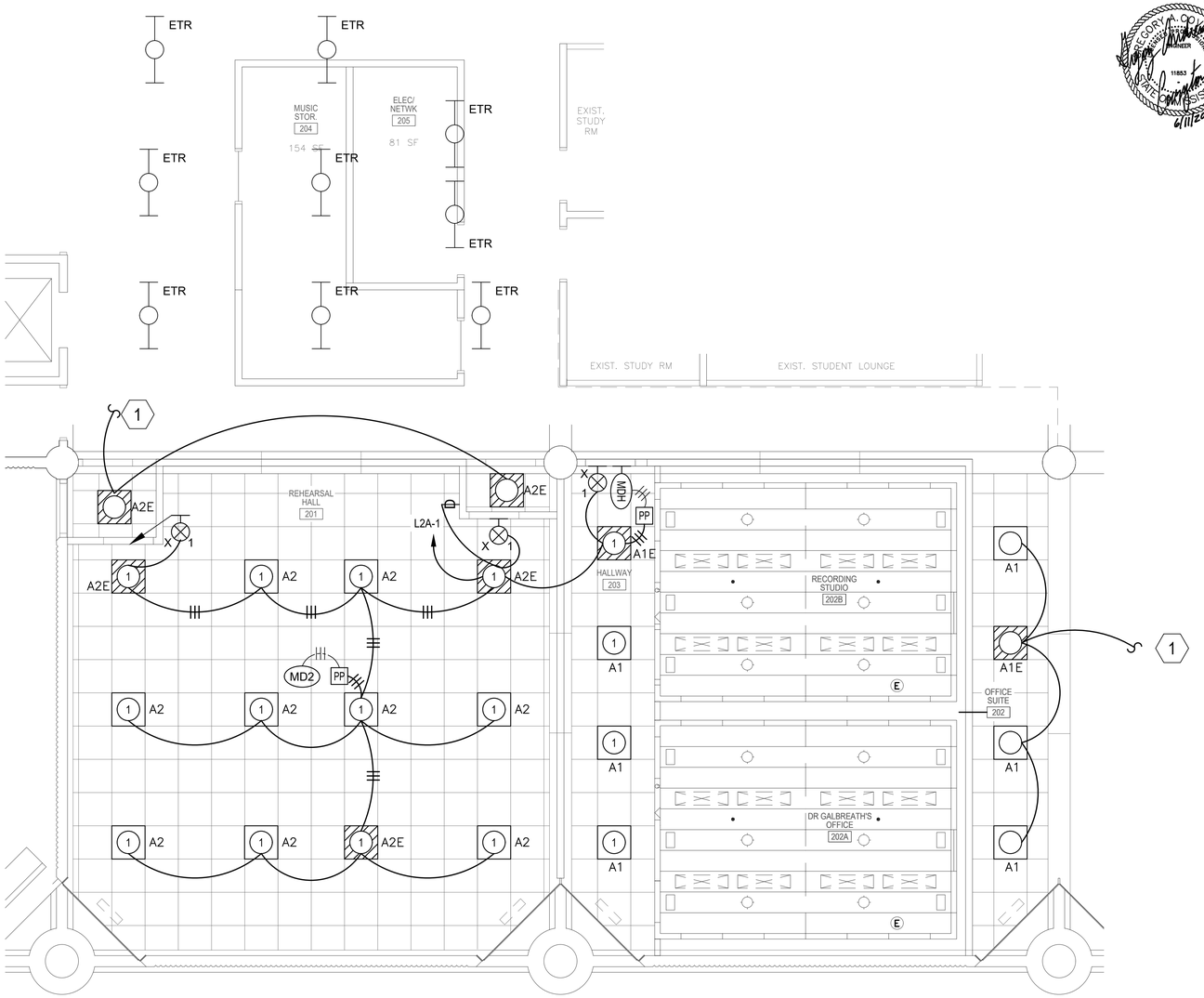
ADDENDUM

1 2026-6-25 ADDENDUM #1 – PACU ALTERNATE, LAY-IN ALTERNATE, BALLARD GROUNDING



1 / E1.1 LIBRARY FIRST FLOOR LIGHTING PLAN ALTERNATE #1

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



2 / E1.1 LIBRARY SECOND FLOOR LIGHTING PLAN ALTERNATE #1

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

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TOUGALOO COLLEGE
West County Line Rd., Tougaloo, MS 39174

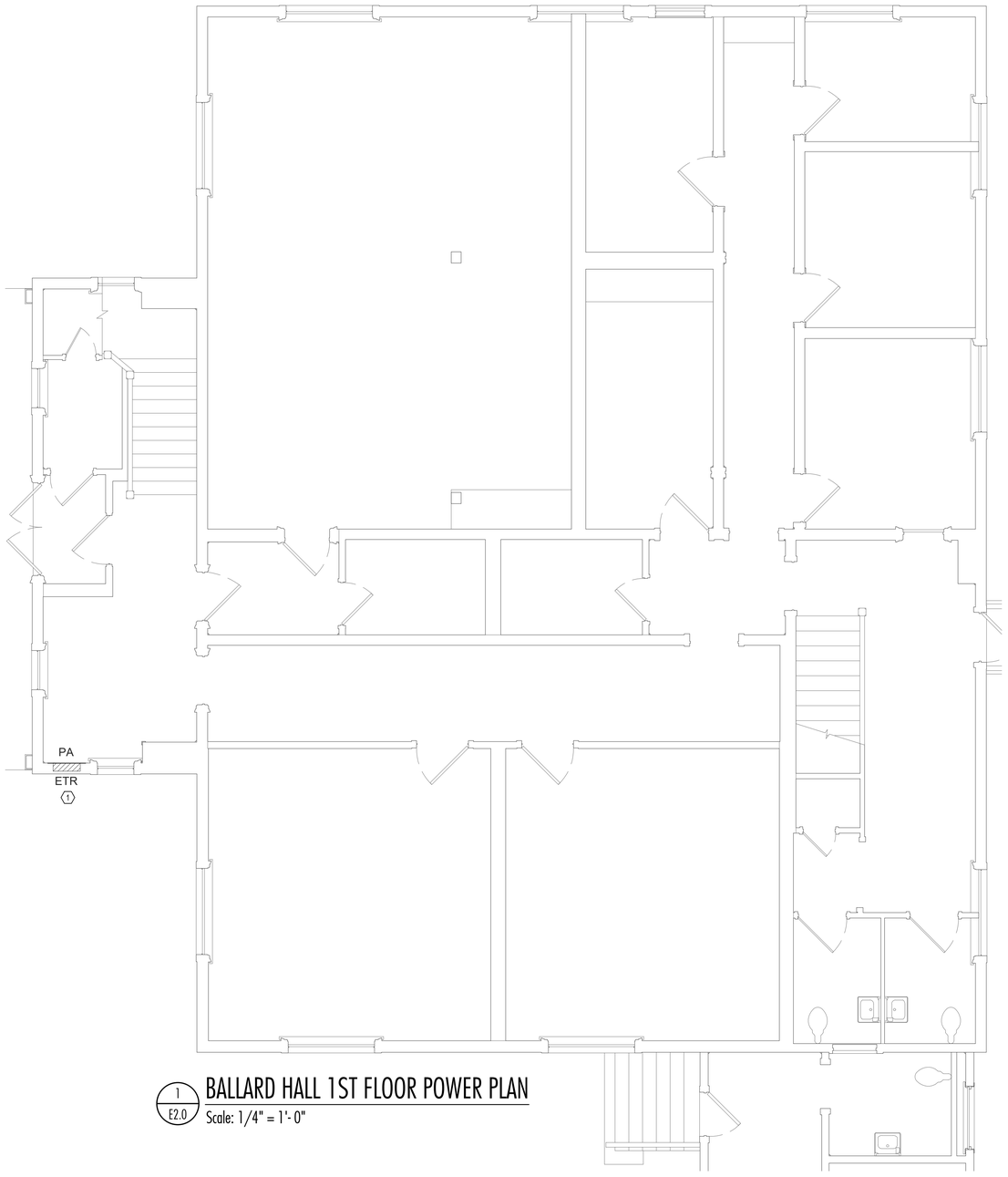
Date: 06/11/2026
Scale: AS NOTED
Drawn: JCM, MWM
Approved: GAC
Job: 2506
Sheet: E1.2

GENERAL NOTES

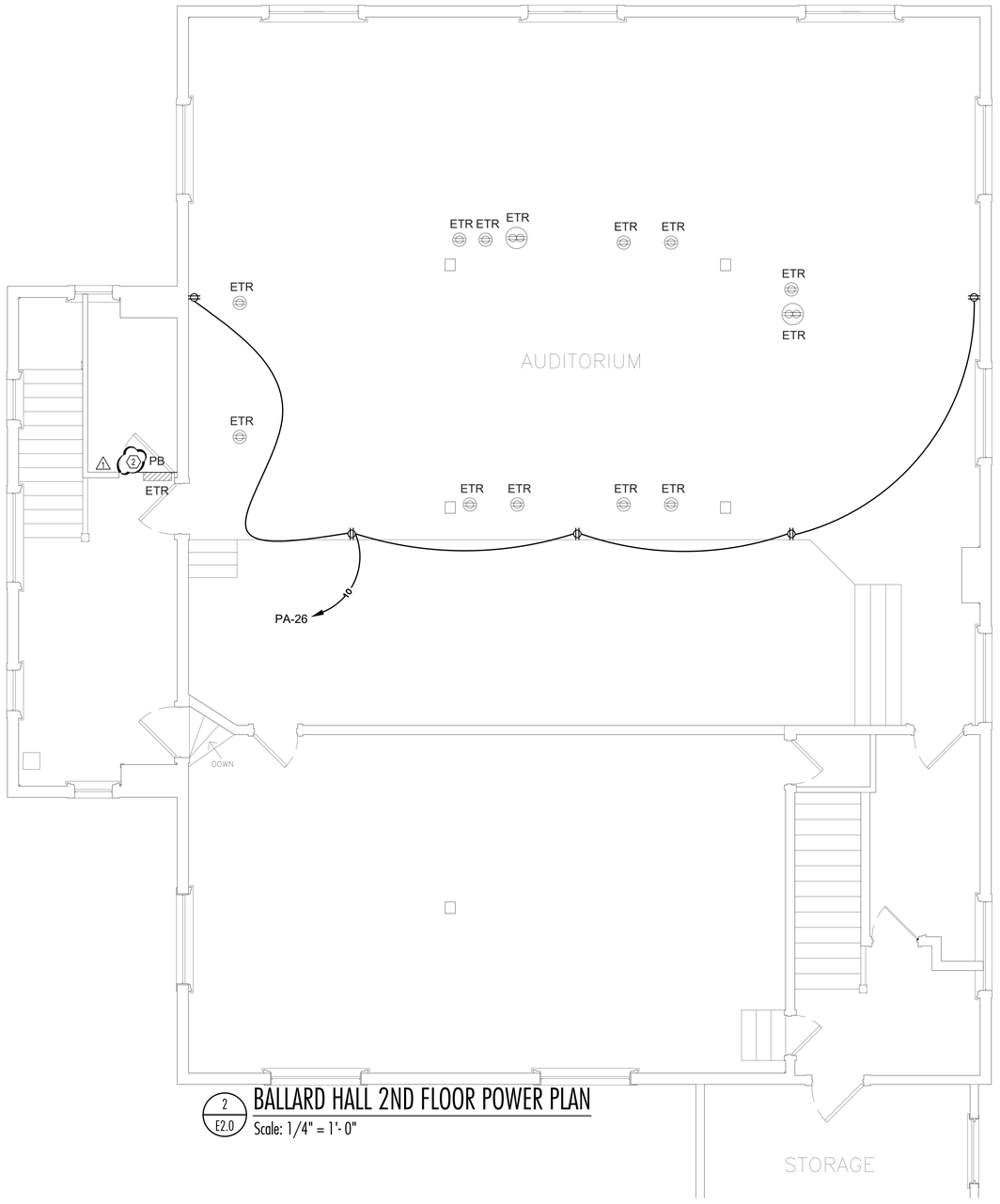
Mark	Description
A.	ELECTRICAL RENOVATIONS TO BUILDING MUST NOT DAMAGE HISTORICAL ASTHETIC AND VALUE OF ORIGINAL BUILDING. WHERE RECESSING OF ELECTRICAL EQUIPMENT WOULD DAMAGE HISTORICAL VALUE, SURFACE MOUNT RACEWAYS AND DEVICES. SEE DETAIL 2/E0.1.

KEYED NOTES

Mark	Description
1	PANELBOARD INTERIOR WAS INACCESSIBLE. BASED ON CORRESPONDENCE WITH THE ELECTRICAL CONTRACTOR ON RETAINER FOR TOUGALOO, THERE IS NO GROUNDING ELECTRODE SYSTEM. PROVIDE NEW GROUNDING ELECTRODE SYSTEM AS SHOWN ON 7/E0.1. PROVIDE AND INSTALL A GROUND BUS BAR INSIDE PANEL. EXISTING BRANCH CIRCUITS RAN THROUGH METALLIC CONDUIT SHALL UTILIZE EXISTING CONDUIT AS ITS GROUNDING CONDUCTOR. ALL EXISTING BRANCH CIRCUITS THAT ARE NOT RAN THROUGH METALLIC CONDUIT WILL REQUIRE NEW EQUIPMENT GROUNDING CONDUCTORS, AND THESE CONDUCTORS SHALL BE ROUTED WITH EXISTING CIRCUITRY IN EXISTING RACEWAYS. ALL NEW BRANCH CIRCUITS WILL REQUIRE AN EQUIPMENT GROUNDING CONDUCTOR. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER TABLE 250.122 IN THE NEC, AND ALL EQUIPMENT GROUNDING CONDUCTORS SHALL HAVE GREEN INSULATION.
2	PROVIDE AND INSTALL A GROUND BUS BAR INSIDE PANEL. EXISTING BRANCH CIRCUITS RAN THROUGH METALLIC CONDUIT SHALL UTILIZE EXISTING CONDUIT AS ITS GROUNDING CONDUCTOR. ALL EXISTING BRANCH CIRCUITS THAT ARE NOT RAN THROUGH METALLIC CONDUIT WILL REQUIRE NEW EQUIPMENT GROUNDING CONDUCTORS, AND THESE CONDUCTORS SHALL BE ROUTED WITH EXISTING CIRCUITRY IN EXISTING RACEWAYS. ALL NEW BRANCH CIRCUITS WILL REQUIRE AN EQUIPMENT GROUNDING CONDUCTOR. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER TABLE 250.122 IN THE NEC, AND ALL EQUIPMENT GROUNDING CONDUCTORS SHALL HAVE GREEN INSULATION.



1 E2.0 BALLARD HALL 1ST FLOOR POWER PLAN
Scale: 1/4" = 1'- 0"



2 E2.0 BALLARD HALL 2ND FLOOR POWER PLAN
Scale: 1/4" = 1'- 0"

ADDENDUM

1 2026-6-25 ADDENDUM #1 – PACU ALTERNATE, LAY-IN ALTERNATE, AND BALLARD GROUNDING

THE POWER SOURCE PLLC
305 HIGHWAY 51
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GREGORY A. GOODSON — 11853 — REGISTERED PROFESSIONAL ENGINEER — STATE OF MISSISSIPPI
6/11/2026

REVISIONS	
DATE	NO.

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DEPARTMENT OF MUSIC UPGRADES
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Addendum No.1.
Attachment 19

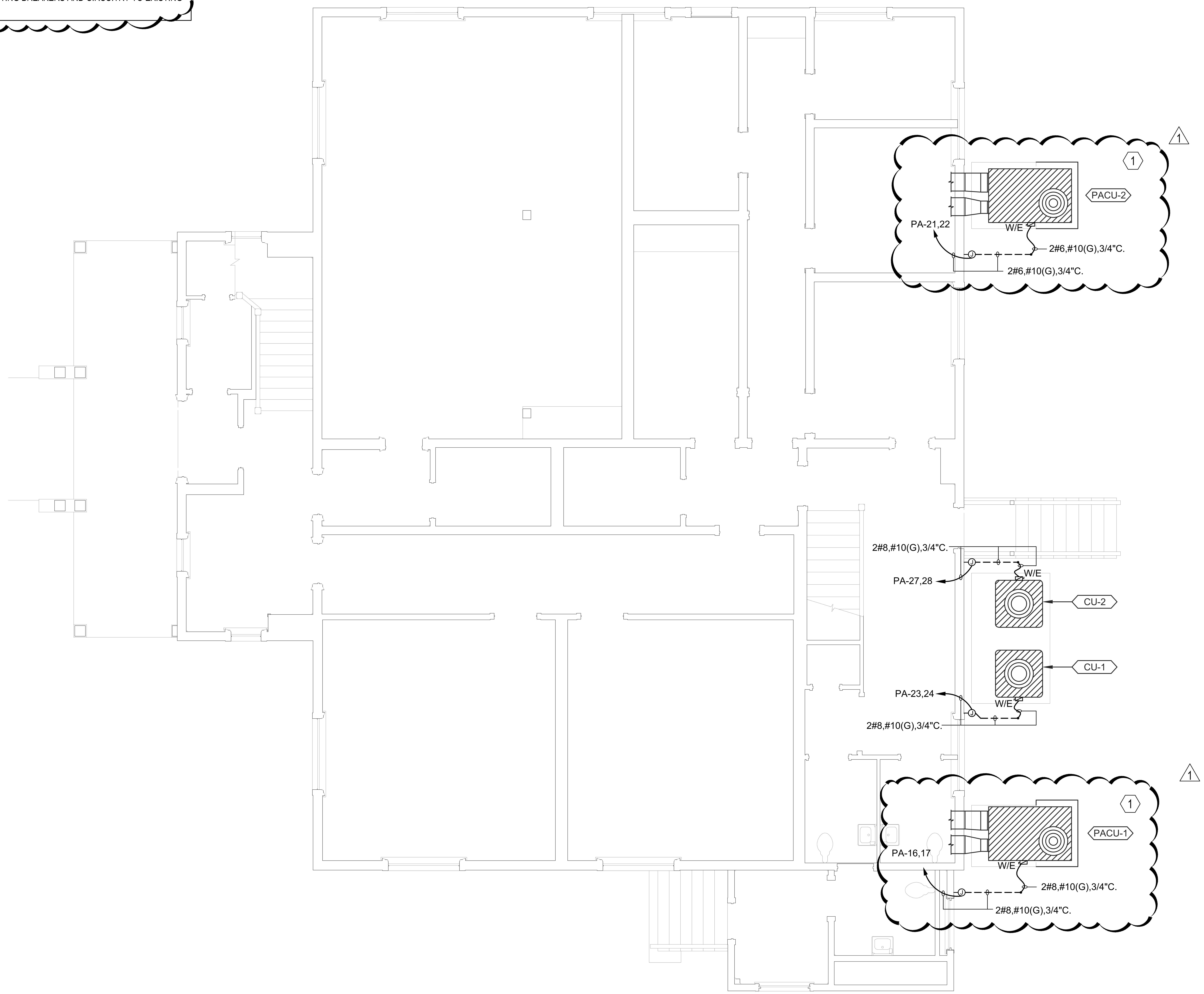
KEYED NOTES

Mark	Description
1	DEMOLITION AND REPLACEMENT OF PACKAGED AIR UNIT ARE UNDER ALTERNATE #3. NEW CONDUCTOR AND CONDUIT SIZE SHOW IS BASED OFF OF NEW PACU REQUIREMENTS UNDER ALTERNATE #3. UNDER BASE BID, RETAIN EXISTING BREAKERS AND CIRCUITRY TO EXISTING PACU'S.

1

ADDENDUM

1 2026-6-25 ADDENDUM #1 – PACU ALTERNATE, LAY-IN ALTERNATE, AND BALLARD GROUNDING



1 E3.0 BALLARD HALL 1ST FLOOR MECHANICAL PLAN

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

REVISIONS	
DATE	NO.

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GREGORY A. COVINGTON
6/11/2026

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Addendum No.1,
Attachment 20