SECTION 00 91 13 – ADDENDA (ADDENDUM #1 – ISSUED 08/11/23)

1.1 PROJECT INFORMATION

A. Project Name: RVCC Lab Renovations

B. Owner: Community College System of New Hampshire

C. Architect: Warrenstreet Architects, Inc.

D. Architect Project Number: 3773

E. Date of Addendum: **August 11, 2023**.

1.2 NOTICE TO BIDDERS

A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

C. As of 8/14/23 we are opening the rooms up to contractor viewing since EnviroVantage has completed demolition early. The bid period is being extended, as noted below, to allow the contractors to view the site. Please contact RVCC directly for appointments.

1. The site can be viewed by contacting Jason Thornton, PME at RVCC, ph 603-543-7569

D. The bid date will be changed from Thursday, August 17th to Tuesday August 29th at 2 p.m.

1.3 ADDITIONAL CONTRACT LANGUAGE

1. N/A

1.4 ATTACHMENTS

A. This Addendum includes the attached Addendum Drawings:

1. Specification Sections 015000 and 017300, unchanged, dated 2/23/23, 17 pgs
2. Room 224 Fume Hood Photo, 1 pg
3. Partial Equipment List, 1 pg
4. First Floor Diagram with Fire Alarm Panel Location, 1 pg

5. Drawings: Cover, A101, A111, A161, A401, & A601, revision #1, dated 8/3/23.

1.5 BID PHASE - REQUEST FOR INFORMATION (RFIs)

The following are questions received by this office to date, which corresponding answers.

A. QUESTION: It is understood all abatement and select demolition will be completed by owner. Please identify if any additional demolition (other MEP trade specific demolition) will be required by the contractor, such as saw cutting for new underground sanitary tie in as indicated on P1.1 & P1.2.

1. RESPONSE: Demo completed by owner is per RFP demo plans and specs.

A. QUESTION: Please confirm if flooring in room 123 and 166 will need to be repaired due to slab cutting and patching. If so please provide existing flooring types.

1. RESPONSE: No slab cutting is required. The work in this area is within the ceiling cavity to support the revised heating and plumbing layout about.

B. QUESTION: There are several pieces of existing equipment listed on sheet A161 in the equipment list table. Please provide make/model information for contractor review.

1. RESPONSE: Owner will make existing equipment available to view when contractor makes their site visit. A partial list has been attached to this addendum for your information.

C. QUESTION: List of drawing sheets in SS000115 do not match the bid set. Please correct to match bid documents.

1. RESPONSE: REVISE the Title of Drawing A411 to read ”CASEWORK AND FUME EXTRACTION ARM DETAILS”

D. QUESTION: Spec sections 015000 and 017300 seem to be corrupted. Can new spec sections be included?

1. RESPONSE: Please find the original specification sections attached.

E. QUESTION: Looking at the Plumbing schedule P-4 is tagged as an ADA shower? Are all the showers in the project to be ADA Compliant?

1. RESPONSE: P-4 Emergency Eye Wash / Showers as indicated are to be ADA compliant. Basis of Design Guardian Unit is confirmed to be Barrier Free.

F. QUESTION: Will the existing elevator be available to use for distributing construction materials?

1. RESPONSE: Allow use of the elevator, however, coordinate with RVCC PME so as to not interfere with students and operations. Contractor to line elevator with protection against damage.

G. QUESTION: Please identify where construction dumpsters will be able to be located on campus.

1. RESPONSE: Dumpster location/s shall be coordinated with the RVCC Plant Maintenance Engineer.

H. QUESTION: This work will be taking place while the school is occupied. Are there any specific restrictions to workflow, off hours work, or phasing required in order to not interrupt student activities?

1. RESPONSE: Work hours can be between 6:30am and 7pm and weekends.

I. QUESTION: Please advise if sink locations tagged with keynote #19 on A401 & A402 should also be tagged with keynote #16 for LWS-1.

1. RESPONSE: Keynote #19 indicates fixed ADA sink locations only. These two classrooms do not include adjustable height sinks in the lab tables and note #16 is 'not used'.

J. QUESTION: Please provide a spec for goggle sanitizing unit if contractor is to supply.

1. RESPONSE: CHANGE: RVCC will purchase and install. See revised equipment list on A161, attached.

K. QUESTION: Please provide a spec for the CO2 Tank rack if contractor is to supply.

1. RESPONSE: CHANGE: RVCC will purchase and install. See revised equipment list on A161, attached.

L. QUESTION: Please provide a spec on the phlebotomy practice area if contractor is to supply.

1. RESPONSE: Equipment Item #1, Phlebotomy Practice Area, will be Owner supplied. These are freestanding phlebotomy chairs.

M. QUESTION: Please confirm if keynote 14 on A401 and A402 should be a pull-down projection screen or a smart board. There is a significant cost difference between the two options.

1. RESPONSE: Provide blocking & power for projector screen. Screen shall be owner supplied.

N. QUESTION: Please confirm if door 203A is to be a new door. It is shown on the schedule ETR. If new, please identify the door type.

1. RESPONSE: Door 203A is a new door, type HG. See revised DOOR SCHEDULE on sheet A601, attached.

O. QUESTION: Please confirm the intent for existing doors 224.1, 224.2, 224.1A, 224.2A. It appears these doors are going to remain untouched but be repainted only. Or will doors 224.1, 224.1A, & 224.2A get new hardware per set #2 and door 224.2 will remain with existing hardware.

1. RESPONSE: See revised DOOR SCHEDULE on sheet A601, attached. All existing and new doors and frames to be painted as part of this contract.

P. QUESTION: Please confirm if relocated fume hood in room 224 needs to be ducted and or exhausted.

1. RESPONSE: Yes, Existing fume hood photo provided. Extend existing ductwork through the wall to the new fume hood location in room 224A, +/- 12 feet

Q. QUESTION: Please confirm if the second floor is a fire rated floor assembly.

1. RESPONSE: The second floor is not rated. All penetrations to be smoke-tight.

R. QUESTION: Please provide specs for the following items – Phlebotomy Practice Area, Goggle Sanitizing Unit, and CO2 Tank Rack.

1. RESPONSE: These three items to be Owner provided. These are indicated on sheet A161 as Equipment List items 1, 13, and 14.

S. QUESTION: Please confirm that the contractor is responsible for furnish and install of the LWS 1&2 casework items.

1. RESPONSE: Yes.

T. QUESTION: Is the contractor responsible for the furnish and install of item # 14 on sheet A111 (Protection screen or smartboard)? If so, please provide specs for the items.

1. RESPONSE: No, Owner will provide powered, ceiling mounted, projection screen, Contractor to provide blocking.

U. QUESTION: Is the contractor Responsible for supplying the drying stations shown on sheet A401, detail 9? If so, please provide specs.

1. RESPONSE: The drying rack is not labeled and is Owner provided, Owner installed.

V. QUESTION: Is the contractor responsible for supplying the eye wash stations? If so, please provide a spec.

1. RESPONSE: Yes. See Plumbing Fixture Schedule on sheet P0.1.

W. QUESTION: For the Typical Fume Extractor Arm Structure Detail shown on A411, detail 7 what is the approximate ceiling area required for this?

1. RESPONSE: See Reflected Ceiling plans on sheet A111 for locations. GC to coordinate final hanging detail with fume arm manufacturer.

X. QUESTION: The Door Schedule on A601 Shows the 4 doors as existing to remain, yet the Glazing Schedule calls for a ¼" tempered glass. Is this for information only, is the existing glazing being replaced? Please clarify.

1. RESPONSE: The Door and Frame Schedule has been revised and is included in this Addendum.

Y. QUESTION: For the wall infill between Rooms 203A and 203, what type of wall type is this?

1. RESPONSE: This is a GWB partition. Match existing construction thickness.

Z. QUESTION: For the S4A wall type depicted on A601, what is the deck height

1. RESPONSE: Verify in Field.

AA. QUESTION: For the Head of Wall detail on A601, it says to refer to the Structural Drawings. There are no Structural drawings in the plan set. Please clarify.

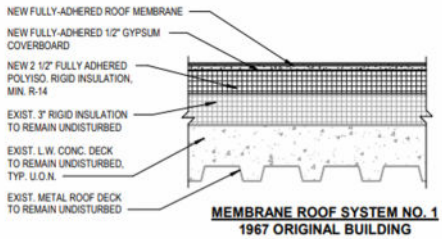
1. RESPONSE: Correct, there is no structural drawings. Coordinate head detail with existing structure above.

BB. QUESTION: The Extractor on Arm Schedule says to furnish the arm with a ceiling mount bracket. The brackets are available in multiple lengths. What length bracket is required?

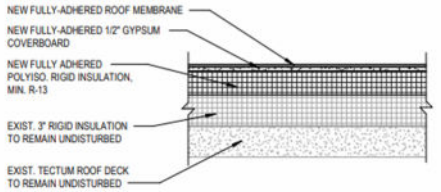
1. RESPONSE: Verify in Field.

CC. QUESTION: Note 8 on M1.1 and Note 3 on M1.2 say to run new 10"x10" up thru floor above and connect to EF-2 on roof. What is the construction of the floor above? What type of room is located above? How should this 10"x10" be treated on the floor above? Encased in metal framing & gwb? Left exposed? What is the roof comprised of? What company holds the warranty? Please provide details for penetrating the upper floor and roof and how the finished condition should appear.

1. RESPONSE: Disregard reference to floor above, there is no floor above. Verify in field roof construction. The roof system is a 90 mil, 40 year warranty EPDM fully adhered membrane by Elevate. It was installed by Triumph Roofing this summer. Lab 203 is in the 1967 building and Lab 224 is in the 1975 building. See diagram of roofing system below.



MEMBRANE ROOF SYSTEM NO. 1
1967 ORIGINAL BUILDING



MEMBRANE ROOF SYSTEM NO. 2
1975 BUILDING ADDITION

DD. QUESTION: Note 9 on M1.1 says to vent the relocated autoclave to the exterior. Please provide a detail showing the exterior wall construction and the finished condition of the wall.

1. RESPONSE: The exterior wall is 4" brick veneer with 8" CMU backup. The total wall thickness is just over 12" which indicates a minimal cavity. Core drill and install discharge duct with vent cap.

EE. QUESTION: Please confirm that on M1.2, the radiant heat units and hws&r piping connections are the same scope as noted on M1.1

1. RESPONSE: Yes remove existing hws&r piping and rework to connect to radiant heat units in both rooms.

FF. QUESTION: There is a general demo note on P.1.1 & P.13 that says to saw cut existing slab, remove the concrete, install underground piping as required, and patch slab. Please provide a plan showing which lines are to go under the slab, where to make these underground connections to existing lines, what elevations these existing lines are at, and a detail for infilling the slab.

1. RESPONSE: Disregard slab cutting note, no slab cutting is required, all work is above the ceiling.

GG. QUESTION: Per P1.1 and P1.3, after infilling the slab for the underground piping, what is to be done with the existing floor? Is it removed and put back? Is it removed and replace? What is the current floor covering? Please provide a demo plan and specs for the flooring. The same questions also apply to the ceiling -r&r, new, specs.

1. RESPONSE: Disregard slab cutting note, no slab cutting is required, all work is above the ceiling.

HH. QUESTION: Please provide record drawings from the previous contracts showing above ceiling and below slab piping for the work shown on P1.1 and P1.3.

1. RESPONSE: Drawings are not available.

II. QUESTION: Do any of the walls shown on P1.1 and P1.3 Demo go to the deck? If so, please provide wall construction and finished condition of the walls after removing pipe/installing new pipe.

1. RESPONSE: All walls continue to deck, patch wall openings with like constructio and provide smoke-stopping at all penetrations.

JJ. QUESTION: On the Demo Plan on P1.1 and P1.3, for all of the above piping be removed, what is to be done for the holes in the floor?

1. RESPONSE: Patch and prep for new flooring.

KK. QUESTION: Will the rooms depicted on P1.1 and P1.3 have scope occurring in their space be occupied? If so, please provide guidance on coordinating this work – date/time/furniture removal/etc.

1. RESPONSE: Rooms depicted on P1.1 and P1.3 will be occupied and will need to be coordinated with

LL. QUESTION: What type of ceiling is located in the new work area shown on P1.1 and P1.3? Is it remove and put back? Remove and replace? If new, please provide specs.

1. RESPONSE: Existing ceiling is 2x2 ACT, remove and put back.

MM. QUESTION: For penetrations from the 1st floor to the 2nd floor, what is the construction of the floor? What should be done to the penetrations after running the new pipe?

1. RESPONSE: The floor assembly is concrete on metal deck and supported by bar joists.

NN. QUESTION: Please provide location of existing heads and branch lines on FP1.1 so the extent of re-work can be better estimated.

1. RESPONSE: Verify in field

OO. QUESTION: Please provide more details for the piece of equipment noted on ED1.1, Note 17.

1. RESPONSE: Demolition Keynote 17 indicates a red emergency stop switch on the exterior walls and a control switch in photo below adjacent to the phone and near the entrance door. This is assumed to control the tabletop exhaust system.

PP. QUESTION: Please advise on existing roof membrane material and manufacturer if possible.

1. RESPONSE: See previous response.

QQ. QUESTION: Is a site visit possible for subs after abatement is complete but demolition is still ongoing?

1. RESPONSE: Yes per Mathew Moore's email on 8/9/2023 bidders can look at the space next week. (14th-18th)

RR. QUESTION: Where is the existing fire alarm panel located?

1. RESPONSE: RESPONSE: The existing fire alarm control panel is in the mechanical room on the first floor (Room 154). See attached floor plan diagram with fire alarm panel located.

SS. QUESTION: Who is the existing FA equipment manufacturer?

1. RESPONSE: Kidde Scorpio panels are present in the building.

TT. QUESTION: What is the extent of the fire alarm installation and are we responsible for a complete building test and program when complete?

1. RESPONSE: The fire alarm system will need devices and to be programmed to add one subdivided classroom.

UU. QUESTION: What are the expected work hours for this job?

1. RESPONSE: See previous response.

VV. QUESTION: What is the extent of the work on the "second floor space" plans or is the intent to only show panel board and cable tray locations.

1. RESPONSE: The intent is to show panel board and cable tray locations.

WW. QUESTION: Please provide a specialties items specification. Specifically, we are looking for paper towel and soap dispenser information.

1. RESPONSE: Paper towel and soap dispensers will be Owner Provided, Owner Installed.

XX. QUESTION: Please confirm if projectors and projector screens are by owner or contractor. If by contractor, please provide spec.

1. RESPONSE: Provide blocking & power for projector screen. Screen shall be owner supplied.

YY. QUESTION: Please provide specs for the coat hooks, paper towel dispenser and soap dispenser.

1. RESPONSE: Paper towel and soap dispensers will be Owner Provided, Owner Installed. Coat hook to be Bobrick B-542.

1.6 REVISIONS TO SPEC:

A. See reissued specifications attached.

1.7 REVISIONS TO DRAWING SHEETS

A. Sheet A601, Partition Types & Door Schedule: See revised sheet attached. Summary below.

1. DOOR AND FRAME SCHEDULE
   a. Door 203A: This door is a new door, provide type HG, HM, PTD. Frame and hardware set are correct.
   b. Door 224.1: This door is a new door, provide type HG, HM, PTD. Frame is correct as scheduled. Change hardware set to Set #1.
   c. Doors 224.1A and 224.2A: This door is a new door, provide type HG, HM, PTD. Frame is existing, painted. Hardware Set is set #2.
2. HARDWARE SETS

B. Cover sheet, See revised sheet attached. Summary below.

1. Added RVCC project number to title.
2. Removed reference to milestone from cover

C. Sheet A101, Demo Floor Plan – Room #203: See revised sheet attached. Summary below.

1. Detail 3 Demo Floor Plan – Room #203:
   a. Changed to removing all flooring in adjacent room (Room 201)
   b. Added the demo of casework along the northern wall (Room 201)
   c. Added the summary of interior ACM & Asbestos identified.

D. Sheet A111, Second Floor Plan and Reflected Ceiling Plan

1. Detail 3, Floor Plan – Room #203:
   a. Added flooring to adjacent room. (Room 201)

E. Sheet A161, Second Floor Furniture/ Equipment and Finish Plan

1. Detail 3 Second Floor Room 203 Finish Plan:
   a. Added Flooring to room 201

F. Sheet A401, Enlarged Plans and interior Elevations

1. Detail 1 Room 203:
   a. Added flooring to room 201

END OF ADDENDUM #1

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

B. Related Requirements:

1. Section 01 10 00 "Summary" for work restrictions and limitations on utility interruptions.

1.3 INFORMATIONAL SUBMITTALS

A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.

B. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.

C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

D. Moisture- and Mold-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage and mold. Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.

1. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and requirements for replacing water-damaged Work.
2. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
3. Indicate methods to be used to avoid trapping water in finished work.

E. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Include the following:

1. HVAC system isolation schematic drawing.
2. Location of proposed air-filtration system discharge.
3. Waste-handling procedures.
4. Other dust-control measures.

F. Noise and Vibration Control Plan: Identify construction activities that may impact the occupancy and use of existing spaces within the building or adjacent existing buildings, whether occupied by others, or occupied by the Owner. Include the following:

1. Methods used to meet the goals and requirements of the Owner.
2. Indicate activities that may disturb nearby building occupants and that are planned to be performed during non-standard working hours as coordinated with the Owner.
3. Indicate locations of sensitive areas or other areas requiring special attention as identified by Owner. Indicate means for complying with Owner's requirements.

1.4 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 TEMPORARY FACILITIES

A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:

1. Furniture required for Project-site documents, including file cabinets, plan tables, plan racks, and bookcases.
2. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot- square tack and marker boards.
3. Drinking water and private toilet.
4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
5. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.

C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

1. Store combustible materials apart from building.

2.2 TEMPORARY PROJECT SIGN

A. Project Identification sign.

1. Structure and Framing: New, wood, structurally adequate.
2. Sign Surfaces: Exterior grade plywood with medium density overlay, minimum 3/4 inch (19 mm) thick, standard large sizes to minimize joints.
3. Rough Hardware: Galvanized.
4. Paint and Primers: Exterior quality, two coats; sign background of color as selected.
5. Lettering: Pre-cut vinyl self-adhesive products, colors as noted.
6. Provide sign design including varying size text and company logos as indicated.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.

1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating, Cooling, and Dehumidifying Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction and clean HVAC system as required in Section 01 77 00 "Closeout Procedures."

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL

A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

1. Locate facilities to limit site disturbance as specified in Section 01 10 00 "Summary."

B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.3 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.

1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

C. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

1. Use of Permanent Toilets: Use of Owner's existing or new toilet facilities is not permitted .

D. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.

E. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.

1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

3.4 SUPPORT FACILITIES INSTALLATION

A. Comply with the following:

1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible in accordance with ASTM E136. Comply with NFPA 241.
2. Utilize designated area within existing building for temporary field offices.

3. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Parking: Use designated areas of Owner's existing parking areas for construction personnel.

1. Use of existing parking facilities by construction personnel is not permitted.
2. Use of designated areas of new parking facilities by construction personnel is permitted.
3. Arrange for temporary parking areas to accommodate use of construction personnel.
   a. Locate as approved by Owner and Architect.
4. Monitor parking of construction personnel's vehicles in existing facilities. Maintain vehicular access to and through parking areas.
5. Prevent parking on or adjacent to access roads or in non-designated areas.

C. Storage and Staging: Use designated areas of Project site for storage and staging needs.

D. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.

1. Identification Signs: Provide Project identification signs as indicated on Drawings.
2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
   a. Provide temporary, directional signs for construction personnel and visitors.
3. Maintain and touch up signs, so they are legible at all times.

E. Waste Disposal Facilities: Comply with requirements specified in Section 01 74 19 "Construction Waste Management and Disposal."

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.

B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

1. Comply with work restrictions specified in Section 01 10 00 "Summary."

C. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

D. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.

1. Prohibit smoking in construction areas. Comply with additional limits on smoking specified in other Sections.
2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition in accordance with requirements of authorities having jurisdiction.
3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign, stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.6 MOISTURE AND MOLD CONTROL

A. Moisture and Mold Protection: Protect stored materials and installed Work in accordance with Moisture and Mold Protection Plan.

3.7 OPERATION, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Maintenance: Maintain facilities in good operating condition until removal.

1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.

2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 77 00 "Closeout Procedures."

3.8 TEMPORARY PROJECT SIGNAGE

A. Project identification sign:

1. One (1) project identification sign of construction, design, and content shown attached following this section.
   a. Install project identification sign within 30 days after date fixed by Notice to Proceed.
   b. Install sign surface plumb and level, with butt joints. Anchor securely.
   c. Maintain signs and supports clean, repair deterioration and damage.
   d. Remove signs, framing, supports, and foundations at completion of Project and restore the area.

END OF SECTION 01 50 00

SECTION 01 73 00 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:

1. Construction layout.
2. Installation of the Work.
3. Cutting and patching.
4. Coordination of Owner-installed products.
5. Progress cleaning.
6. Starting and adjusting.
7. Protection of installed construction.
8. Correction of the Work.

B. Related Requirements:

1. Section 01 10 00 "Summary" for coordination of Owner-furnished products , and limits on use of Project site.
2. Section 01 33 00 "Submittal Procedures" for submitting surveys.
3. Section 01 77 00 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, replacing defective work, and final cleaning.
4. Section 07 84 13 "Penetration Firestopping" for patching penetrations in fire-rated construction.

1.2 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.3 PREINSTALLATION MEETINGS

A. Cutting and Patching Conference: Conduct conference at Project site .

1. Prior to commencing work requiring cutting and patching, review extent of cutting and patching anticipated and examine procedures for ensuring satisfactory result from cutting and patching work. Inform Architect of scheduled meeting. Require representatives of each entity directly concerned with cutting and patching to attend, including the following:
   a. Contractor's superintendent.
   b. Trade supervisor responsible for cutting operations.
   c. Trade supervisor(s) responsible for patching of each type of substrate.

d. Mechanical, electrical, and utilities subcontractors' supervisors, to the extent each trade is affected by cutting and patching operations.

2. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

B. Layout Conference: Conduct conference at Project site .

1. Prior to establishing layout of new perimeter and structural column grid(s), review building location requirements. Review benchmark, control point, and layout and dimension requirements. Inform Architect of scheduled meeting. Require representatives of each entity directly concerned with Project layout to attend, including the following:
   a. Contractor's superintendent.
   b. Contractor's personnel responsible for performing Project surveying and layout.
2. Review meanings and intent of dimensions, notes, terms, graphic symbols, and other layout information indicated on the Drawings.
3. Review requirements for including layouts on Shop Drawings and other submittals.
4. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

1.4 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
   a. Primary operational systems and equipment.
   b. Fire separation assemblies.
   c. Air or smoke barriers.
   d. Fire-suppression systems.
   e. Plumbing piping systems.
   f. Mechanical systems piping and ducts.
   g. Control systems.
   h. Communication systems.
   i. Fire-detection and -alarm systems.
   j. Conveying systems.
   k. Electrical wiring systems.
   l. Operating systems of special construction.
3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that

results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:

a. Water, moisture, or vapor barriers.
b. Membranes and flashings.
c. Exterior curtain-wall construction.
d. Sprayed fire-resistive material.
e. Equipment supports.
f. Piping, ductwork, vessels, and equipment.
g. Noise- and vibration-control elements and systems.

4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

B. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Comply with requirements specified in other Sections.

1. For projects requiring compliance with sustainable design and construction practices and procedures, use products for patching that comply with sustainable design requirements.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.

C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.

1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, gas service piping, and water-service piping; underground electrical services; and other utilities.
2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to local utility that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.

B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect in accordance with requirements in Section 01 31 00 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks and existing conditions. If discrepancies are discovered, notify Architect promptly.

3.4 INSTALLATION

A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

1. Make vertical work plumb, and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
4. Maintain minimum headroom clearance of in occupied spaces and in unoccupied spaces, as indicated on the Drawings.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure satisfactory results as judged by Architect. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations, so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy of type expected for Project.

E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on-site and placement in permanent locations.

F. Tools and Equipment: Select tools or equipment that minimize production of excessive noise levels.

G. Templates: Obtain and distribute to the parties involved templates for Work specified to be factory prepared and field installed. Check Shop Drawings of other portions of the Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturer.

1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor

bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

I. Joints: Make joints of uniform width. Where joint locations in exposed Work are not indicated, arrange joints for the best visual effect, as judged by Architect. Fit exposed connections together to form hairline joints.

3.5 CUTTING AND PATCHING

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

C. Temporary Support: Provide temporary support of Work to be cut.

D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.

F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
6. Proceed with patching after construction operations requiring cutting are complete.

G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
   a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
   b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
   a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent surfaces.
4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS CLEANING

A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
   a. Use containers intended for holding waste materials of type to be stored.
4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 01 74 19 "Construction Waste Management and Disposal."

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 STARTING AND ADJUSTING

A. Coordinate startup and adjusting of equipment and operating components with requirements in Section 01 91 13 "General Commissioning Requirements."

B. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

C. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

D. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

E. Manufacturer's Field Service: Comply with qualification requirements in Section 01 40 00 "Quality Requirements."

3.8 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Protection of Existing Items: Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.

C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.9 CORRECTION OF THE WORK

A. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.

1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

B. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.

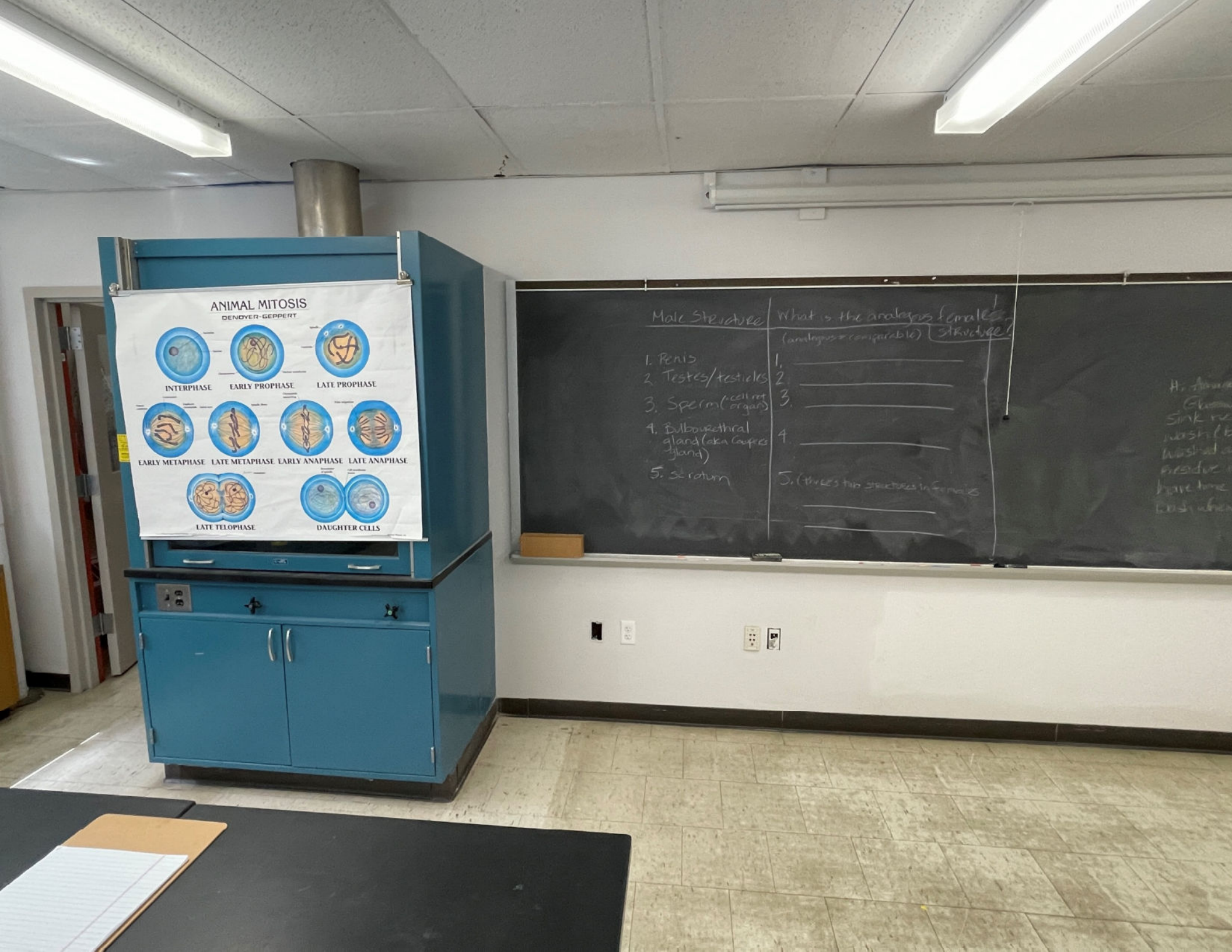
C. Restore permanent facilities used during construction to their specified condition.

D. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

E. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

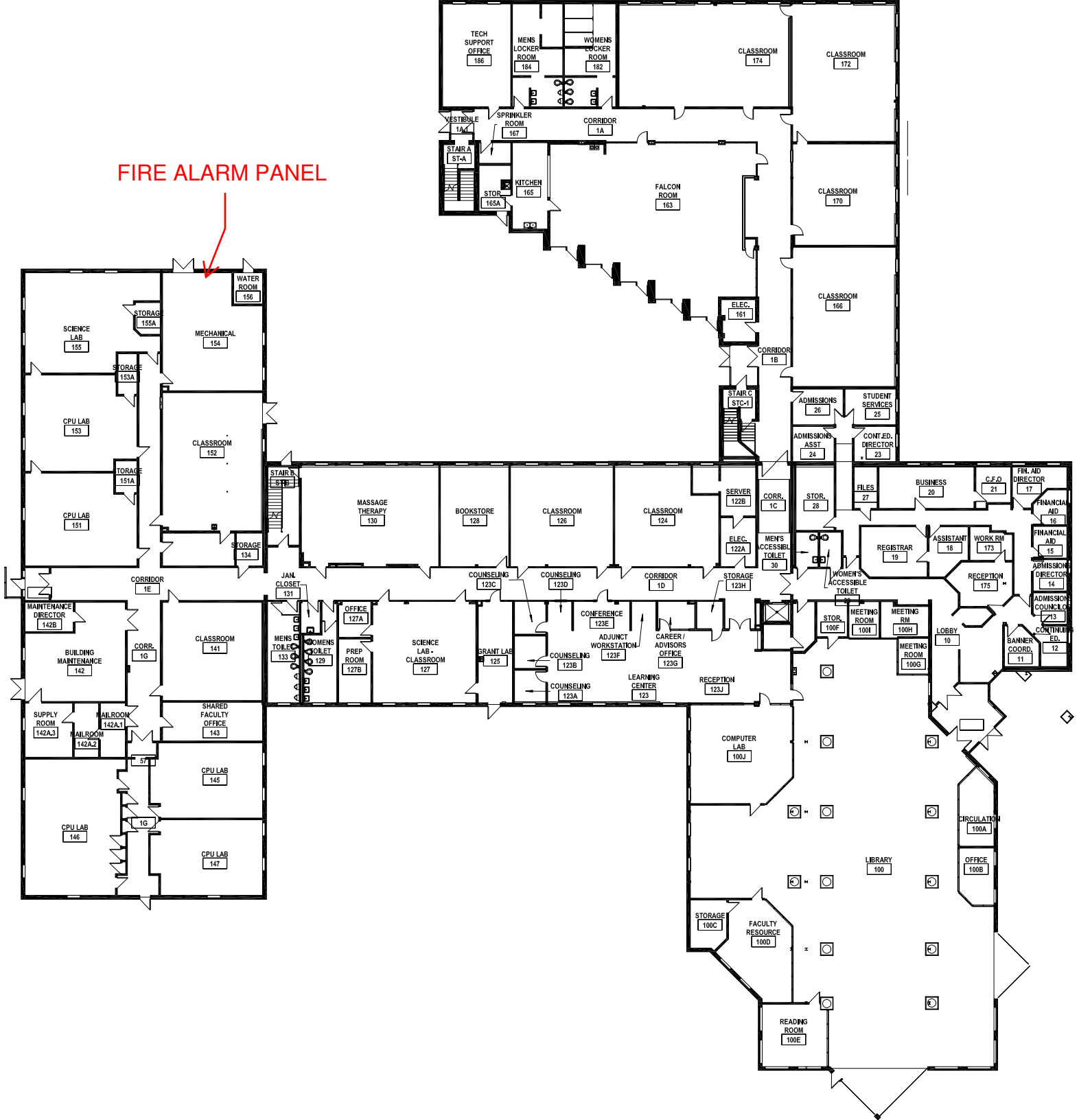
F. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 01 73 00


ANIMAL MITOSIS
DENOYER-GEPPERT
INTERPHASE
EARLY PROPHASE
LATE PROPHASE
EARLY METAPHASE
LATE METAPHASE
EARLY ANAPHASE
LATE ANAPHASE
LATE TELOPHASE
DAUGHTER CELLS
Male Structure
What is the analogous female structure?
(analogous = comparable)
1. Penis
2. Testes/testicles
3. Sperm (cell not organ)
4. Bulbourethral gland (aka Cowpers gland)
5. Sc return

River Valley Lab Project
Claremont NH

Mark	Description	Make	Model	S/N	Length	Width	Height	Condition	Responsibility	Electrical Requirements				Comments
										Voltage	HZ	Amp	Phase	
Room 203														
11A	Refrigerator	GE applicances	GTS18GTHSRWW	TM722519	2' 6"	2' 4"	5' 7"	ETR		110-127/10	50/60	6.5		Clearance: 2" back, 0.75" sides, 1" top
11B	Refrigerator	Fisher Scientific	13-986-152	2017090833079	2' 4.75"	2' 8"	5'10.5"	ETR		115	60	5	1	Clearance 3" back, 3" sides, 3" top
3A	Water jacketed Incubator	Thermo Scentific	3250	-	24.5"	27"	36.5"	ETR		120	60	4.5	1	
3B	Precision Gravity Convection Incubator	Precision Scientific	4EG	10AU-1	22.5"	22"	38.5"	ETR		120	50/60	1.7	1	
2	Market Forge Sterilmatic	Market Forge	STM-E		32"	18"	27"	ETR		230		50	3	E (fixed temp) or STM-EL (Adjustable temp)
Room 224														
11C	Standard mini fridge	-	-	-	23.5"	21.25"	33"	ETR						


FIRE ALARM PANEL
TECH SUPPORT OFFICE 186
MENS LOCKER ROOM 184
WOMENS LOCKER ROOM 182
CLASSROOM 174
CLASSROOM 172
VESTIBULE 1A
SPRINKLER ROOM 167
CORRIDOR 1A
STAIR A ST-A
KITCHEN 165
STOR. 165A
FALCON ROOM 163
CLASSROOM 170
CLASSROOM 166
ELEC. 161
CORRIDOR 1B
STAIR C STC-1
ADMISSIONS 26
STUDENT SERVICES 25
ADMISSIONS ASST 24
CONT.ED. DIRECTOR 23
WATER ROOM 156
STORAGE 155A
SCIENCE LAB 155
MECHANICAL 154
STORAGE 153A
CPU LAB 153
CLASSROOM 152
STORAGE 151A
CPU LAB 151
STAIR B STB
MASSAGE THERAPY 130
BOOKSTORE 128
CLASSROOM 126
CLASSROOM 124
SERVER 122B
CORR. 1C
ELEC. 122A
MEN'S ACCESSIBLE TOILET 30
STOR. 28
FILES 27
BUSINESS 20
C.F.O 21
FIN. AID DIRECTOR 17
FINANCIAL AID 16
FINANCIAL AID 15
REGISTRAR 19
ASSISTANT 18
WORK RM 173
RECEPTION 175
ADMISSIONS DIRECTOR 14
ADMISSIONS COUNCILOR 13
CONTINUING ED. 12
BANNER COORD. 11
LOBBY 10
STORAGE 134
CORRIDOR 1E
JAN. CLOSET 131
COUNSELING 123C
COUNSELING 123D
CORRIDOR 1D
STORAGE 123H
WOMEN'S ACCESSIBLE TOILET 40
STOR. 100F
MEETING ROOM 100I
MEETING RM 100H
MEETING ROOM 100G
MAINTENANCE DIRECTOR 142B
BUILDING MAINTENANCE 142
CORR. 1G
CLASSROOM 141
MENS TOILET 133
WOMENS TOILET 129
OFFICE 127A
PREP ROOM 127B
SCIENCE LAB - CLASSROOM 127
GRANT LAB 125
CONFERENCE 123E
ADJUNCT WORKSTATION 123F
CAREER / ADVISORS OFFICE 123G
COUNSELING 123B
COUNSELING 123A
LEARNING CENTER 123
RECEPTION 123J
SUPPLY ROOM 142A.3
MAILROOM 142A.1
MAILROOM 142A.2
SHARED FACULTY OFFICE 143
CPU LAB 145
CPU LAB 146
1G
CPU LAB 147
COMPUTER LAB 100J
CIRCULATION 100A
OFFICE 100B
LIBRARY 100
STORAGE 100C
FACULTY RESOURCE 100D
READING ROOM 100E

RVCC LAB RENOVATIONS
PROJECT # RVC23-01

1 COLLEGE PLACE
CLAREMONT NH 03743

OWNER

MATT MOORE
COMMUNITY COLLEGE SYSTEM OF NEW HAMPSHIRE
28 COLLEGE DR, CONCORD, NH 03301
P. (603) 344 5377

WARRENSTREET ARCHITECTS, INC.

PLANNERS, ARCHITECTS, LANDSCAPE ARCHITECTS, INTERIOR DESIGNERS
27 WARREN STREET, CONCORD, NH 03301
P. (603) 225-0640

CIVIL	LANDSCAPE	ARCHITECTURE	STRUCTURAL	MECHANICAL/PLUMBING	ELECTRICAL	OTHER
		WARRENSTREET ARCHITECTS, INC. 27 WARREN STREET CONCORD, NH 03301 P. (603) 225-0640 F. (603) 225-0621		YEATON ASSOCIATES 40 S RIVER RD, STE 36 BEDFORD, NH 03110 P. (603) 444 - 6578	YEATON ASSOCIATES INC 40 S RIVER RD, STE 36 BEDFORD, NH 03110 P . (603) 444 - 6578	
NA	NA	COVER SHEET A000 ADA, CONVERSIONS, SYMBOLS, SIGNAGE & ABBREVIATIONS A003 CODE REVIEW A004 CODE PLANS A005 SECOND FLOOR DEMO PLAN AND DEMO REFLECTED CEILING PLAN A101 SECOND FLOOR PLAN AND REFLECTED CEILING PLAN A111 SECOND FLOOR FURNITURE/ EQUIPMENT AND FINISH PLAN A161 ENLARGED PLANS AND INTERIOR ELEVATIONS A401 ENLARGED PLANS AND INTERIOR ELEVATIONS A402 CASEWORK AND FUME EXTRACTION ARM DETAILS A411 PARTITION TYPES & DOOR SCHEDULE A601	NA	MECHANICAL GENERAL NOTES, LEGEND & ABBREVIATIONS M1.0 SCIENCE LAB #203 PART PLANS - DEMOLITION & NEW WORK M1.1 CHEMISTRY LAB #224 PART PLANS - DEMOLITION & NEW WORK M1.2 PLUMBING GENERAL NOTES, LEGEND & ABBREVIATIONS P0.1 LEARNING CENTER # 123 PART PLANS DEMOLITOIN & NEW WORK P1.1 SCIENCE LAB #203 PART PLANS - DEMOLITION & NEW WORK P1.2 CLASSROOM #166 PART PLANS - DEMOLITOIN & NEW WORK P1.3 CHEMISTRY LAB #224 PART PLANS - DEMOLITION & NEW WORK P1.4 FIRST FLOOR PART PLANS - PFIRE PROTECTION OUTLINE FP1.1 x x x	ELECTRICAL SYMBOLS AND ABBREVIATIONS... E0.1 PART PLANS - ELECTRICAL DEMOLITION ED1.1 PART PLANS - LIGHTING E1.1 PART PLANS - POWER E1.2 SECOND FLOOR PLAN - ELECTRICAL E1.3 ELECTRICAL DETAILS E5.1	NA
x x x	x x x	x x x	x x x	x x x	x x x	x x x

PROJECT:

RVCC LAB RENOVATIONS PROJECT # RVC23-01

PROJECT NUMBER: 3773

ISSUE:

FOR CONSTRUCTION

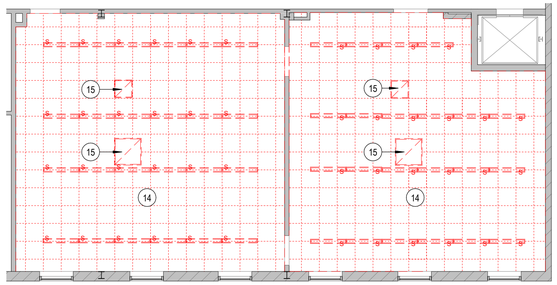
ISSUE DATE: 04/26/2023

ARCHITECT OF RECORD

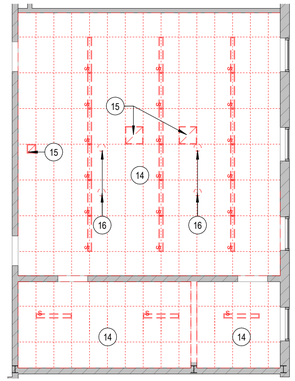
LICENSED ARCHITECT
JONATHAN W. SMITH NO. 3418
THE STATE OF NEW HAMPSHIRE

BIM 360://3773 CCSNH RIVER VALLEY LAB RENOVATIONS/RVCC 2022-04-04 LAB RENOVATION.rvt
PRINT DATE: 8/11/2023 1:20:45 PM TEMPLATE DATE: 11/25/2019

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarter inch = one foot
one quarter inch = one foot
one eighth inch = one foot



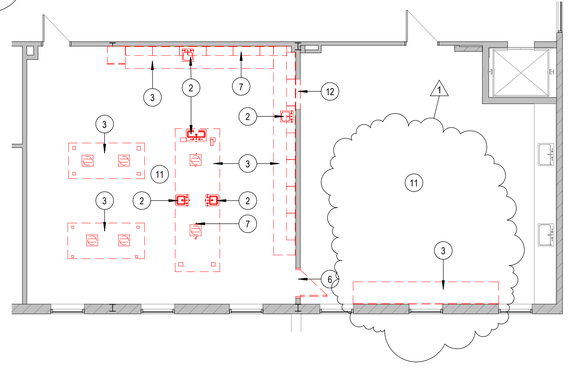
1 A201 DEMO REFLECTED CEILING PLAN - ROOM #203
1/8" = 1'-0"



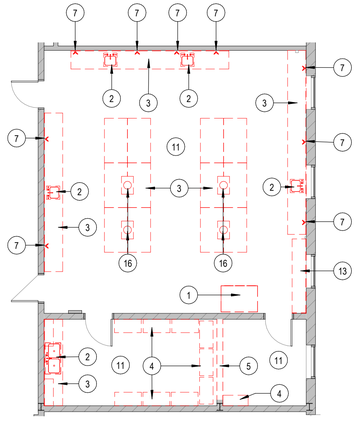
2 A201 DEMO REFLECTED CEILING PLAN - ROOM 224
1/8" = 1'-0"

SUMMARY OF INTERIOR ACM & ASBESTOS IDENTIFIED

Building Material	Location	Approximate Quantity	EPA Category	Asbestos Results
Pipe Fitting Insulation	Lab Classroom 127 above suspended ceilings	16 fittings	Friable ACM	30% Amosite
Gypsum Board and Joint Compound	Walls throughout each classroom	5,770 square feet	Non-ACM	Trace Asbestos
ACM White/Black 12" Floor Tile	Lab Classrooms 127a and 127b	270 square feet	Category I Nonfriable	3% Chrysotile
12" White/Tan Floor Tile and Black Mastic	Lab Classroom 224	1,164 square feet	Category I Nonfriable	3% Chrysotile
12" White/Black Floor Tile	Lab Classroom 203	860 square feet	Category I Nonfriable	3% Chrysotile
Lab Countertops	Lab Classrooms 127, 127a and 127b	272.25 square feet	Category II Nonfriable	10%-20% Chrysotile
	Lab Classroom 155	226.5 square feet		
	Lab Classroom 224	326 square feet		
	Lab Classroom 203	228 square feet		
Fume Hood Interior Panels	Lab Classroom 224	25 square feet	Category II Nonfriable	25% Chrysotile
Blackboards	Lab Classrooms 203 and 224	128 square feet	Category II Nonfriable	10% Chrysotile, 3% Amosite
Bottle Dryer	Lab Classroom 203	6 square feet	Category II Nonfriable	15% Chrysotile
Windowsills	Lab Classroom 127, 155 & 203	42 square feet	Category II Nonfriable	10% Chrysotile



3 A201 DEMO FLOOR PLAN - ROOM #203
1/8" = 1'-0"



4 A201 DEMO FLOOR PLAN - ROOM #224
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. THE DEMOLITION DRAWINGS SHOW THE OVERALL CONCEPT OF THE DEMOLITION SCOPE. THEY ARE NOT INTENDED AS A COMPREHENSIVE DESCRIPTION OF THE SCOPE OF DEMOLITION REQUIRED FOR THE PROJECT. THE FULL DOCUMENT SET, INCLUDING SPECIFICATIONS AND DRAWINGS MUST BE CONSIDERED IN DETERMINING THE SCOPE OF DEMOLITION.
2. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCY WITH CONDITIONS ENCOUNTERED OR UNCOVERED IN THE FIELD.
3. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL REQUIREMENTS WHEN DEMOLISHING EXISTING BEARING WALLS OR ROOF STRUCTURE. PROVIDE TEMPORARY SUPPORT TO PRESERVE STABILITY OF STRUCTURE TO REMAIN.
4. PROVIDE TEMPORARY BARRICADES AND PROTECTION TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT CONSTRUCTION TO REMAIN.
5. DURING DEMOLITION ACTIVITIES, MAINTAIN BUILDING SO IT REMAINS WATER TIGHT AND WEATHER TIGHT.
6. UNLESS DEMOLISHED MATERIAL IS INDICATED TO REMAIN, REMOVE MATERIAL FROM PROJECT SITE AND DISPOSE OF LEGALLY.
7. PROTECT ALL ADJACENT SURFACES THAT ARE TO REMAIN DURING DEMOLITION. PATCH AND REPAIR ALL ADJACENT SURFACES DAMAGED DURING DEMOLITION.
8. WHEN UTILITY SYSTEMS ARE REMOVED, PROVIDE CAP, VALVE, PLUG, OR SEAL TO MEET CODE REQUIREMENTS AND MAINTAIN CONTINUUM OF THE SYSTEM.
9. CONTACT FACILITIES TO DETERMINE ASPESTOS LOCATIONS AND TAKE ALL PRECAUTIONS TO ENSURE SAFE AND LEGAL CONTAINMENT AND DISPOSAL.

DEMOLITION LEGEND

- 1 — KEYNOTE, SEE FLOOR PLAN KEYNOTE LEGEND
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN

DEMOLITION NOTE LEGEND

KEY #	DESCRIPTION
1	EXISTING FUME HOOD TO BE RELOCATED.
2	REMOVE EXISTING SINK.
3	REMOVE EXISTING CASEWORK
4	REMOVE EXISTING SHELVING.
5	REMOVE EXISTING WALL COMPLETE.
6	REMOVE EXISTING DOOR & FRAME COMPLETE.
7	REMOVE & CAP EXISTING GAS VALVE.
8	EXISTING REFRIGERATOR TO BE RELOCATED
9	REMOVE EXISTING EYE WASH AND SHOWER STATION
10	REMOVE EXISTING FUME HOOD, SALVAGE TO OWNER
11	REMOVE EXISTING FLOORING
12	REMOVE PORTION OF EXISTING WALL FOR NEW DOOR
13	REMOVE CABINET UNIT HEATER
14	REMOVE EXISTING ACOUSTIC TILES, GRID, AND LIGHT FIXTURES, COMPLETE.
15	REMOVE CEILING MECHANICAL EQUIPMENT, SALVAGE CEILING CASSETTE AC
16	REMOVE EXISTING FUME HOODS MOUNTED ON TABLES
17	COORDINATE WITH MEP FOR SLAB CUTTING REQUIRED

WARRENSTREET ARCHITECTS
27 Warren Street Concord NH 03301
T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

OWNER
MATT MOORE
COMMUNITY COLLEGE SYSTEM OF NEW HAMPSHIRE
28 COLLEGE DR
CONCORD, NH 03301
P. (603) 344 5377

PLAN KEY:

PROJECT TITLE / ADDRESS:
RVCC LAB RENOVATIONS
PROJECT # RVC23-01
1 COLLEGE PLACE
CLAREMONT NH 03743

LICENSED ARCHITECT
JONATHAN W. SMITH
NO. 3418
THE STATE OF NEW HAMPSHIRE

SCALE:	AS NOTED	DWN BY:	RH
JOB #:	3773	CHK BY:	JS
PRINT DATE:		8/11/2023 1:20:51 PM	
ISSUE DATE:		04/28/2023	

FOR CONSTRUCTION

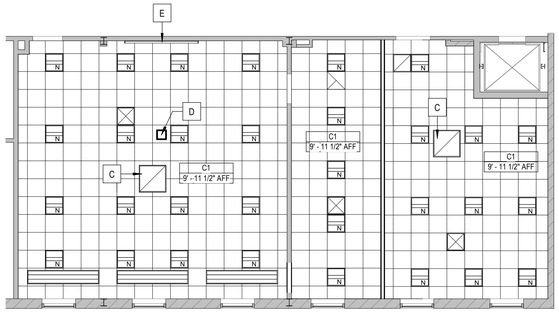
REVISION	DATE	COMMENTS
1	8/3/2023	ADDENDUM 1

SECOND FLOOR DEMO PLAN AND DEMO REFLECTED CEILING PLAN

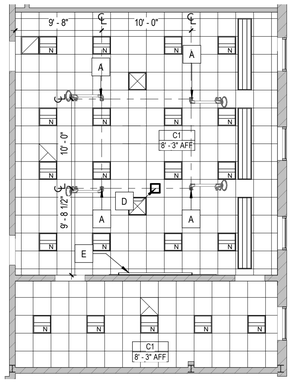
A101

SHEET NUMBER: 4 OF 10 ARCHITECTURAL

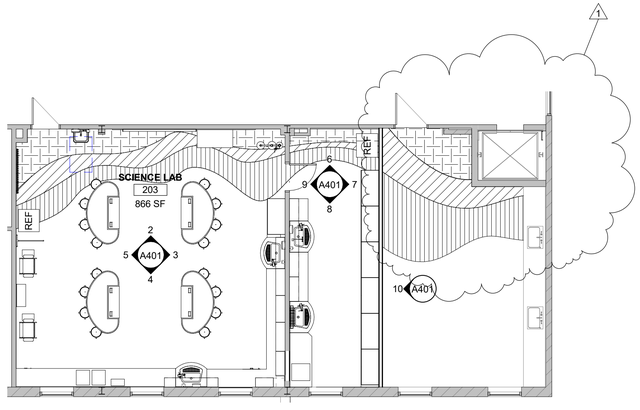
BM:360.03772,CCSNH RIVER VALLEY LAB RENOVATIONS/RVCC 2022-04-04 LAB RENOVATION.PLAN
TEMPLATE DATE: 11/25/2019



1 A201 REFLECTED CEILING PLAN - ROOM #203
1/8" = 1'-0"

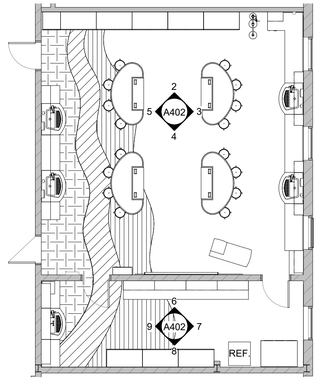


2 A201 REFLECTED CEILING PLAN - ROOM #224
1/8" = 1'-0"



SEE SHEET A403 FOR ENLARGED PLAN

3 A201 FLOOR PLAN - ROOM #203
1/8" = 1'-0"



SEE SHEET A404 FOR ENLARGED PLAN

4 A201 FLOOR PLAN - ROOM #224
1/8" = 1'-0"

GENERAL PLAN NOTES

1. ARCHITECTURAL DATUM = 100'-0". THE ARCHITECTURAL DATUM IS INDEPENDENT OF ELEVATIONS SHOWN ON THE CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CORRESPONDING DATUM IN HEIGHT ABOVE SEA LEVEL.
2. ALL DIMENSIONS AT NEW WALLS ARE TO OUTSIDE FACE OF STUD, FACE OF CONCRETE, FACE OF MASONRY, OR CENTER OF OPENING, U.N.O. AT EXISTING WALLS DIMENSIONS ARE TO FINISH FACE OF WALL.
3. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR ANY DISCREPANCY PRIOR TO COMMENCING WITH ANY WORK.
4. REFER TO DIMENSION PLANS FOR GENERAL PARTITION NOTES & PARTITION TYPES.
5. VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK. NOTIFY ARCHITECT OF DISCREPANCIES.
6. ALL LUMBER IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED INCLUDING ALL SILL PLATES FOR WOOD STUD WALLS.
7. REVIEW PRIOR TO INSTALLATION, ANY CONFLICT OF ENGINEERING TRADE DEVICES (I.E. FIRE ALARM STROBES) WITH ARCHITECTURAL DETAILS AND BRING THOSE DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
8. PROVIDE BLOCKING FOR MILLWORK, MECHANICAL FIXTURES, PLUMBING FIXTURES AND OTHER ITEMS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.
9. COORDINATE MISC. STEEL REQUIREMENTS FOR MOUNTING / HANGING OWNER SUPPLIED EQUIPMENT.

FLOOR PLAN LEGEND

- 101 — DOOR TAG, SEE DOOR SCHEDULE
- X — WINDOW TAG, SEE WINDOW SCHEDULE
- 11 — ACCESSORY TAG, SEE ACCESSORY TYPES & INTERIOR ELEVATIONS
- A — KEYNOTE, SEE FLOOR PLAN KEYNOTE LEGEND
- STRUCTURAL GRID LINE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION
- NEW DOOR
- EXISTING DOOR

FLOOR PLAN KEYNOTES

KEY #	DESCRIPTION
1	BLIND CORNER CABINET
2	PHLEBOTOMY PRACTICE AREA
3	EXISTING AUTOCLAVE
4	EXISTING INCUBATOR
5	EXISTING ICE MAKER
6	EXISTING LAB OVEN
7	EXISTING HAZARDOUS MATERIALS CABINET - INORGANIC ACIDS; 51CM W X 79 CM L X 93 CM H.
8	EXISTING HAZARDOUS MATERIALS CABINET - ORGANIC ACIDS; 46 CM W X 59 CM L X 90 CM H. HAS VENTILATION PORTS
9	EXISTING HAZARDOUS MATERIALS CABINET - FLAMMABLE LIQUIDS - 56CM W X 90 CM L X 82CM H. NO VISIBLE VENTILATION PORTS.
10	EXISTING HAZARDOUS MATERIALS CABINET - CORROSIVES ; 40CM W X 43 CM L X 54 CM H (QTY. 2) NO VENTILATION PORTS.
11	EXISTING FUME HOOD - RELOCATED
12	RELOCATED EXISTING REFRIGERATOR
13	RELOCATED EXISTING UNDER-COUNTER REFRIGERATOR
14	PROJECTION SCREEN OR SMARTBOARD
15	FUME HOOD - DUAL SIDED
16	LWS 1 ADJUSTABLE-HEIGHT LAB TABLE WITH SINK, GAS & ELECTRIC.(6 OUTLETS)
17	CASEWORK
18	SAFETY SHOWER/ EYE - WASH
19	SINK LOCATION
20	GAS LOCATION
21	LWS 2 ADJUSTABLE-HEIGHT LAB TABLE WITH ELECTRIC (8 OUTLETS)
22	GOGGLE SANITIZING UNIT
23	COAT HOOKS (QTY. 20-24)
24	MOBILE TEACHER LECTURN
25	SWING DOWN EYE - WASH
26	MICROSCOPE CABINET
27	WHITEBOARD
28	CO2 TANK RACK
29	DOOR PANEL AND FRAME EXISTING TO REMAIN REPAINT.
30	REPOUR AREAS OF SLAB WHERE CUTTING TOOK PLACE.
31	MOISTURE RESISITANT GYP. AT SINK

RCP GENERAL NOTES

1. LIGHT FIXTURE AND MECHANICAL DEVICE LOCATIONS ARE SHOWN FOR ARRANGEMENT PURPOSES ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURES TYPES.
2. SEE WINDOW HEAD DETAILS FOR CEILING CONDITIONS AT WINDOWS.
3. SEE STRUCTURAL DRAWINGS FOR SEISMIC DESIGN CATEGORY FOR CEILING SUSPENSION SYSTEM.
4. CONTACT FACILITIES TO DETERMINE ASPESTOS LOCATIONS AND TAKE ALL PRECAUTIONS TO ENSURE SAFE AND LEGAL CONTAINMENT AND DISPOSAL.

RCP ANNOTATION LEGEND

- A — KEYNOTE, SEE RCP KEYNOTE LEGEND
- STRUCTURAL GRID LINE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN

CEILING TAG

- Cx / X'-XX" AFF — CEILING TYPE DESIGNATION, SEE CEILING TYPES LEGEND; CEILING HEIGHT, ABOVE FINISHED FLOOR

RCP CEILING TYPES

CEILING TYPE	DESCRIPTION / BASIS OF DESIGN
C1 -	2x2' ACT - ARMSTRONG DUNE #1853 15/16" GRID - ANGLED TEGULAR COLOR: WHITE

FIXTURE LEGEND

TROFFER AND RECESSED LIGHT FIXTURES

- 24" X 24" TROFFER LIGHT FIXTURE
- 24" X 48" TROFFER LIGHT FIXTURE
- 12" X 48" TROFFER LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIRECTIONAL RECESSED CAN LIGHT FIXTURE

PENDANT LIGHT FIXTURES

- LINEAR PENDANT LIGHT FIXTURE
- PENDANT CAN LIGHT FIXTURE

SURFACE MOUNTED LIGHT FIXTURES

- LED LINEAR UTILITY SURFACE MOUNTED FIXTURE

WALL MOUNTED LIGHT FIXTURES

- LED LINEAR WALL FIXTURE

MECHANICAL REGISTERS AND GRILLES

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE OR RECESSED EXHAUST FAN

RCP KEYNOTES

KEY #	DESCRIPTION
A	HEAVY-DUTY PULL-DOWN FUME EXTRACTOR ARMS. LOCATE OVER LAB TABLES
B	RADIENT HEATING PANELS, SEE MECH.
C	HVAC UNIT, SEE MECH
D	PROJECTOR, CEILING MTD.
E	PROJECTOR SCREEN PULL DOWN

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T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

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MATT MOORE
COMMUNITY COLLEGE SYSTEM OF NEW HAMPSHIRE
28 COLLEGE DR
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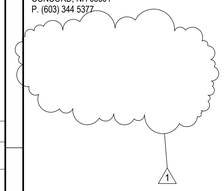


PLAN KEY:

1ST FLOOR

PROJECT TITLE / ADDRESS:

RVCC LAB RENOVATIONS
PROJECT # RVC23-01
1 COLLEGE PLACE
CLAREMONT NH 03743

SCALE: AS NOTED
DWN BY: RH
JOB #: 3773
CHK BY: JS
PRINT DATE: 8/11/2023 1:20:55 PM
ISSUE DATE: 04/28/2023

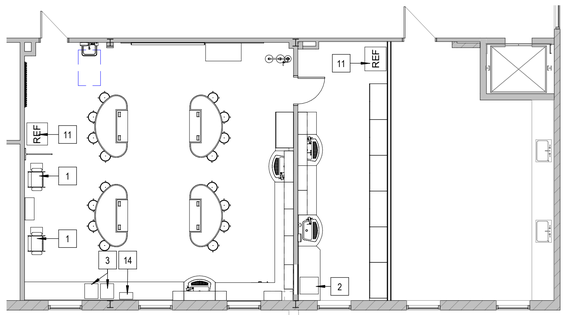
FOR CONSTRUCTION

REVISION	DATE	COMMENTS
1	8/3/2023	ADDENDUM 1

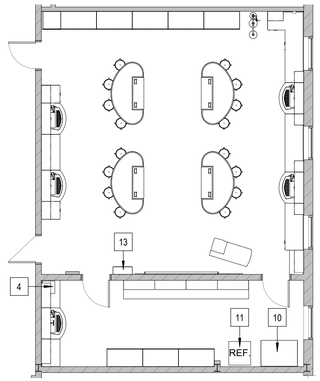
SECOND FLOOR PLAN AND REFLECTED CEILING PLAN

A111

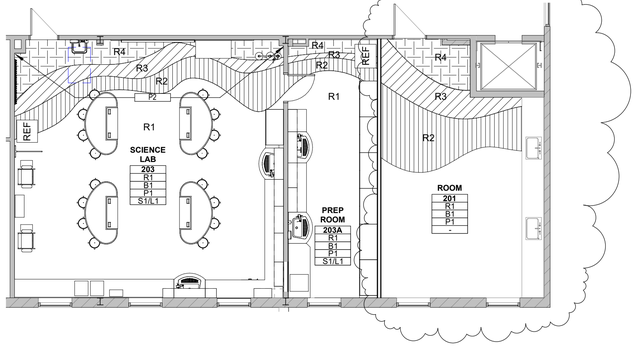
SHEET NUMBER: 5 OF 10 ARCHITECTURAL



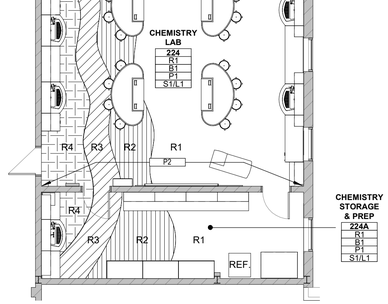
1 SECOND FLOOR ROOM 203 FURNITURE & EQUIP. PLAN
A201 1/8" = 1'-0"



2 SECOND FLOOR ROOM 224 FURNITURE & EQUIP. PLAN
A201 1/8" = 1'-0"



3 SECOND FLOOR ROOM 203 FINISH PLAN
A201 1/8" = 1'-0"



4 SECOND FLOOR ROOM 224 FINISH PLAN
A201 1/8" = 1'-0"

EQUIPMENT LIST

TAG	ITEM	PROVIDED BY	INSTALLED BY
1	PHLEBOTOMY PRACTICE AREA	OWNER	OWNER
2	EXISTING AUTOCLAVE	OWNER	CONTRACTOR
3	EXISTING INCUBATOR	OWNER	CONTRACTOR
4	EXISTING ICE MAKER	OWNER	CONTRACTOR
5	NOT USED	-	-
6	NOT USED	-	-
7	NOT USED	-	-
8	NOT USED	-	-
9	NOT USED	-	-
10	EXISTING FUME HOOD - RELOCATED	OWNER	CONTRACTOR
11	RELOCATED EXISTING REFRIGERATOR	OWNER	CONTRACTOR
12	NOT USED	-	-
13	GOGGLE SANITIZING UNIT	OWNER	OWNER
14	CO2 TANK RACK	OWNER	OWNER

INTERIOR FINISH MATERIALS LEGEND

TAG	ITEM	SPEC NUMBER	MANUFACTURER	COLLECTION / MODEL	COLOR	SIZE	INSTALL	NOTES
FLOORING								
R1	RESILIENT FLOORING	09 65 00	TARKETT	I.Q.OPTIMA	245 FOGGY SHORES	ROLL		HEAT WELD SEAMS
R2	RESILIENT FLOORING	09 65 00	TARKETT	I.Q.OPTIMA	251 SPENCER'S EYES	ROLL		HEAT WELD SEAMS
R3	RESILIENT FLOORING	09 65 00	TARKETT	I.Q.OPTIMA	250 RUSHING WATERS	ROLL		HEAT WELD SEAMS
R4	RESILIENT FLOORING	09 65 00	TARKETT	I.Q.OPTIMA	849 BLUE SATIN	ROLL		HEAT WELD SEAMS
WALL BASE								
B1	RESILLIENT BASE	09 65 00	TARKETT	BASEWORKS TYPE TS THERMOSET RUBBER BASE	40 BLACK	4"		
WALL								
P1	PAINT	09 90 00	SHERWIN WILLAMS	SW 9165	GOSSAMER VEIL	-	FIELD PAINT U.N.O	FINISH: EGGSHELL
P2	PAINT	09 90 00	SHERWIN WILLAMS	SW 6219	RAIN	-	ACCENT PAINT	FINISH: EGGSHELL
P3	(NOT USED)							
P4	PAINT	09 90 00	SHERWIN WILLAMS	SW 6258	TRICORN BLACK	-	TRIM PAINT	FINISH: SEMI-GLOSS
P5	PAINT	09 90 00	SHERWIN WILLAMS	SW 7006	EXTRA WHITE	-	CEILING PAINT	FINISH: FLAT
W1	FRP	10 26 23						
MILLWORK								
S1	COUNTERS	12 36 00	DURCON	SOLID PHENOLIC COMPACT	CARBON BLACK	-	-	
M1	CASEWORK	06 41 00	FORMICA	HPG LAMINATE	86992-58 HARDROCK MAPLE	-	-	3MM PVC EDGE
WINDOW TREATMENT								
WT1	WINDOW TREATMENT	12 24 00				-	-	

GENERAL FINISH NOTES

1. SEE INTERIOR MATERIALS LEGEND FOR FINISH DESIGNATIONS.
2. SEE DOOR SCHEDULE FOR DOOR & FRAME PAINT COLORS.
3. SEE INTERIOR ELEVATIONS ON 'A400' SERIES SHEETS.
4. RESILIENT FLOOR SHALL EXTEND UNDER ALL CASEWORK.
5. ALL ELECTRICAL FIXTURE PLATES AND COVERS SHALL BE WHITE, U.N.O.
6. PAINT METAL STAIR GUARD, HANDRAILS & STRINGERS COLOR _____, U.O.N.
7. UNDERSIDE GWB OF STAIR SHALL BE PAINTED WHITE, U.O.N.
8. TEST ALL EXISTING AND NEW CONCRETE SLABS FOR MOISTURE VAPOR EMISSIONS (ASTM F1869), INTERNAL RELATIVE HUMIDITY (ASTM 2170), AND ALKALINITY(ASTM F710). IN THE EVENT THAT TEST VALUES EXCEED FLOORING MANUFACTURER'S LIMITS, NOTIFY ARCHITECT TO DETERMINE REMEDIATION METHOD.

FURNITURE PLAN NOTES

1. NOTE

FURNITURE PLAN LEGEND

- 1t — FURNITURE TAG
- A — KEYNOTE, SEE FLOOR PLAN KEYNOTE LEGEND
- STRUCTURAL GRID LINE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION

FURNITURE PLAN KEYNOTES

KEY #	DESCRIPTION
A	

FINISH PLAN LEGEND

FINISH PLAN ROOM TAG

ROOM NAME
101
C1
B1
P1
S1

- ROOM NAME & NUMBER
- FLOOR FINISH
- BASE / CHAIR RAIL
- WALL (ABOVE/BELOW)
- MILLWORK / MISC.

MATERIAL CALLOUT TAG

- MATERIAL TAG
- P1 — ACCENT PAINT LOCATION IN PLAN
- A — KEYNOTE, SEE KEYNOTE LEGEND BELOW

FINISH PLAN KEYNOTES

KEY #	DESCRIPTION
A	

EQUIPMENT PLAN NOTES

1. NOTE

EQUIPMENT PLAN LEGEND

- 1t — EQUIPMENT TAG
- A — KEYNOTE, SEE FLOOR PLAN KEYNOTE LEGEND
- STRUCTURAL GRID LINE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION

EQUIPMENT PLAN KEYNOTES

KEY #	DESCRIPTION
1	PHLEBOTOMY PRACTICE AREA
2	EXISTING AUTOCLAVE
3	EXISTING INCUBATOR
4	EXISTING ICE MAKER
5	EXISTING LAB OVEN
6	EXISTING HAZARDOUS MATERIALS CABINET - INORGANIC ACIDS; 51CM W X 79 CM L X 93 CM H.
7	EXISTING HAZARDOUS MATERIALS CABINET - ORGANIC ACIDS; 46 CM W X 59 CM L X 90 CM H. HAS VENTILATION PORTS
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27 Warren Street Concord NH 03301
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PLAN KEY:

PROJECT TITLE / ADDRESS:
RVCC LAB RENOVATIONS
PROJECT # RVC23-01
1 COLLEGE PLACE
CLAREMONT NH 03743

LICENSED ARCHITECT
JONATHAN W. SMITH NO. 3418
THE STATE OF NEW HAMPSHIRE

SCALE: AS NOTED
DWN BY: RH
JOB #: 3773
CHK BY: JS
PRINT DATE: 8/11/2023 1:20:59 PM
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FOR CONSTRUCTION

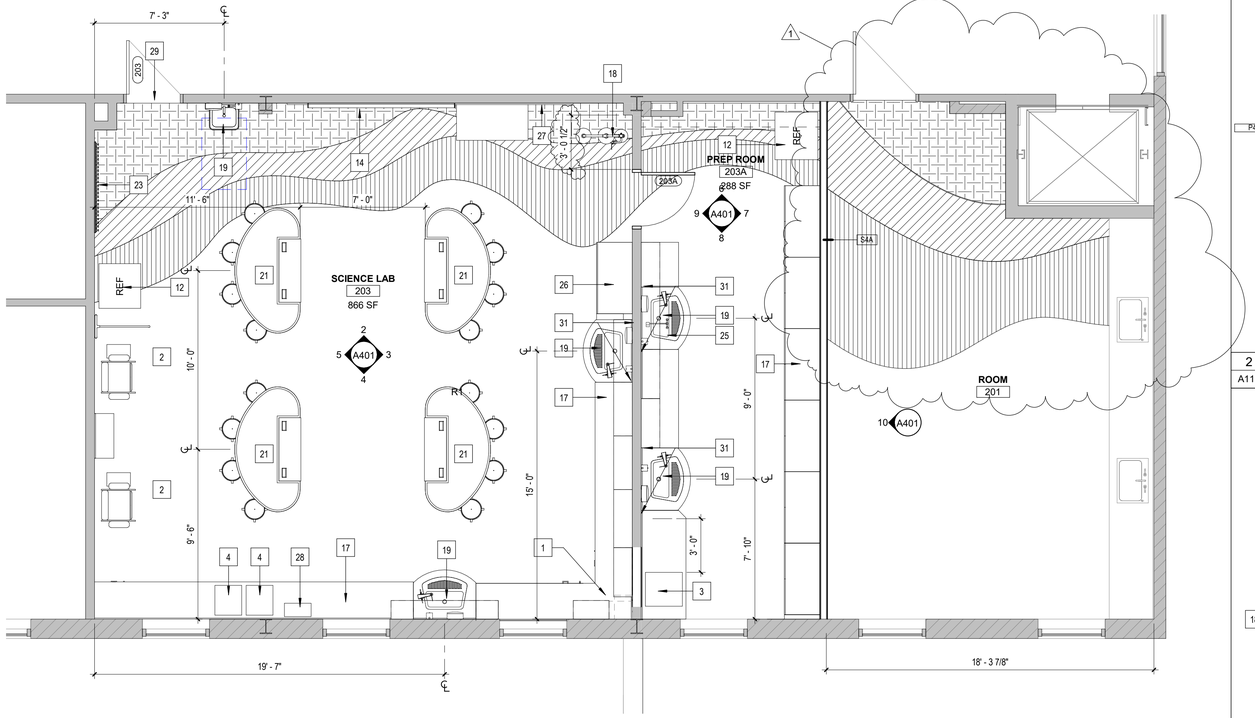
REVISION	DATE	COMMENTS
1	8/3/2023	ADDENDUM 1

SECOND FLOOR FURNITURE/ EQUIPMENT AND FINISH PLAN

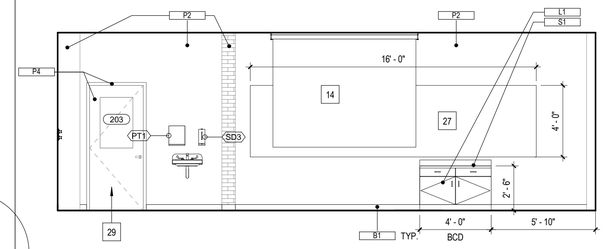
A161

SHEET NUMBER: 6 OF 10 ARCHITECTURAL

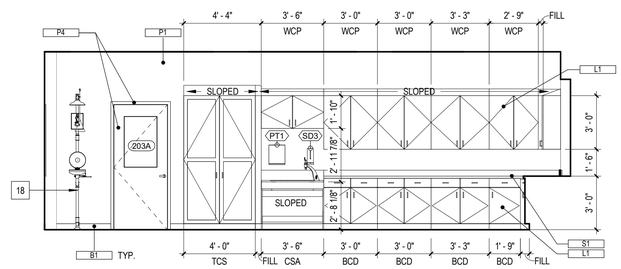
BM 360.00771.CCSNH RIVER VALLEY LAB RENOVATIONSRVCC 2022-04 LAB RENOVATION.PLAT
TEMPLATE DATE: 11/25/2019



1 ROOM 203
A201 1/4" = 1'-0"



2 203 N
A111 1/4" = 1'-0"



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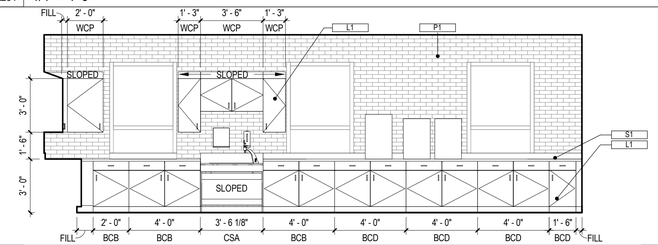
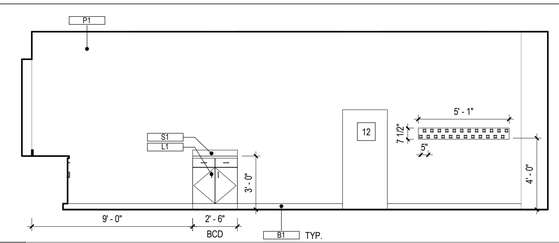
A111 1/4" = 1'-0"



4 203 S
A111 1/4" = 1'-0"



5 203 W
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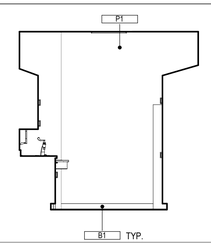

6 203A N
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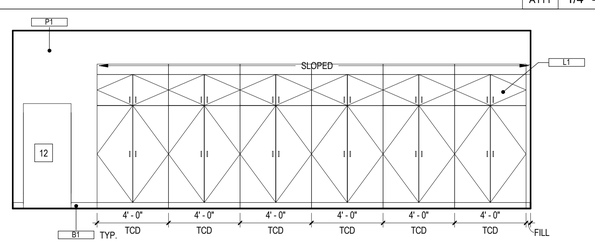
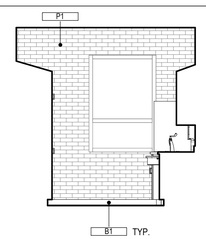
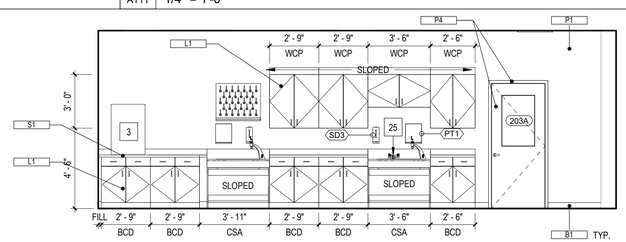


7 203A E
A111 1/4" = 1'-0"



8 203A S
A111 1/4" = 1'-0"



9 203A W
A111 1/4" = 1'-0"

10 202 W
A111 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

1. REVIEW PRIOR TO ROUGH-IN, ANY CONFLICT OF ENGINEERING TRADE DEVICES WITH ARCHITECTURAL DETAILS AND BRING THOSE DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
2. PROVIDE BLOCKING FOR MILLWORK, MECHANICAL FIXTURES, PLUMBING FIXTURES AND OTHER ITEMS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.
3. COORDINATE MISC. STEEL REQUIREMENTS FOR MOUNTING / HANGING OWNER SUPPLIED EQUIPMENT.
4. CONFIRM DIMENSIONS OF OWNER SUPPLIED APPLIANCES OR EQUIPMENT PRIOR TO ORDERING FIXED CASEWORK.

PLAN & ELEVATION LEGEND

- 101 — DOOR TAG, SEE DOOR SCHEDULE
- X — WINDOW TAG, SEE WINDOW SCHEDULE
- 1t — ACCESSORY TAG, SEE ACCESSORY TYPES & INTERIOR ELEVATIONS
- P1 — MATERIAL TAG, SEE MATERIAL SCHEDULE
- 30" OCB — CASEWORK TAG, SEE CASEWORK TYPES
- A — KEYNOTE, SEE PLAN & ELEV KEYNOTE LEGEND
- STRUCTURAL GRID LINE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN

PLAN & ELEV KEYNOTES

KEY #	DESCRIPTION
1	BLIND CORNER CABINET
2	PHLEBOTOMY PRACTICE AREA
3	EXISTING AUTOCLAVE
4	EXISTING INCUBATOR
5	EXISTING ICE MAKER
6	EXISTING LAB OVEN
7	EXISTING HAZARDOUS MATERIALS CABINET - INORGANIC ACIDS; 51CM W X 79 CM L X 93 CM H.
8	EXISTING HAZARDOUS MATERIALS CABINET - ORGANIC ACIDS; 46 CM W X 59 CM L X 90 CM H. HAS VENTILATION PORTS
9	EXISTING HAZARDOUS MATERIALS CABINET - FLAMMABLE LIQUIDS - 56CM W X 90 CM L X 82CM H. NO VISIBLE VENTILATION PORTS.
10	EXISTING HAZARDOUS MATERIALS CABINET - CORROSIVES ; 40CM W X 43 CM L X 54 CM H (QTY. 2) NO VENTILATION PORTS.
11	EXISTING FUME HOOD - RELOCATED
12	RELOCATED EXISTING REFRIGERATOR
13	RELOCATED EXISTING UNDER-COUNTER REFRIGERATOR
14	PROJECTION SCREEN OR SMARTBOARD
15	FUME HOOD - DUAL SIDED
16	LWS 1 ADJUSTABLE-HEIGHT LAB TABLE WITH SINK, GAS & ELECTRIC.(8 OUTLETS)
17	CASEWORK
18	SAFETY SHOWER/ EYE - WASH
19	SINK LOCATION
20	GAS LOCATION
21	LWS 2 ADJUSTABLE-HEIGHT LAB TABLE WITH ELECTRIC (8 OUTLETS)
22	GOGGLE SANITIZING UNIT
23	COAT HOOKS (QTY. 20-24)
24	MOBILE TEACHER LECTURN
25	SWING DOWN EYE - WASH
26	MICROSCOPE CABINET
27	WHITEBOARD
28	CO2 TANK RACK
29	DOOR PANEL AND FRAME EXISTING TO REMAIN REPAINT.
30	REPOUR AREAS OF SLAB WHERE CUTTING TOOK PLACE.
31	MOISTURE RESISITANT GYP. AT SINK

WARRENSTREET ARCHITECTS
27 Warren Street Concord NH 03301
T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

OWNER
MATT MOORE
COMMUNITY COLLEGE SYSTEM OF NEW HAMPSHIRE
28 COLLEGE DR
CONCORD, NH 03301
P. (603) 344 5377

PLAN KEY:

PROJECT TITLE / ADDRESS:

RVCC LAB RENOVATIONS
PROJECT # RVC23-01
1 COLLEGE PLACE
CLAREMONT NH 03743

LICENSED ARCHITECT JONATHAN W. SMITH NO. 3418 THE STATE OF NEW HAMPSHIRE

SCALE:	AS NOTED	DWN BY:	RH
JOB #:	3773	CHK BY:	JS
PRINT DATE:		8/11/2023 1:21:03 PM	
ISSUE DATE:		04/28/2023	

FOR CONSTRUCTION

REVISION	DATE	COMMENTS
1	8/3/2023	ADDENDUM 1

ENLARGED PLANS AND INTERIOR ELEVATIONS

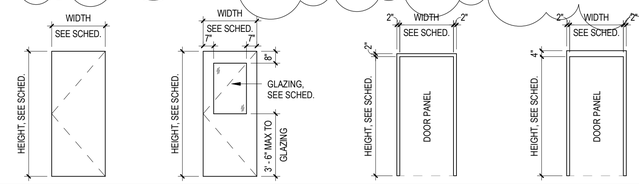
A401

SHEET NUMBER: 7 OF 10 ARCHITECTURAL

BIM 360://3773 CCSNH RIVER VALLEY LAB RENOVATIONS/RVCC 2022-04 LAB RENOVATION.RVT
TEMPLATE DATE: 11/25/2019

DOOR AND FRAME SCHEDULE

TAG #	LOCATION FROM (KEY SIDE) ROOM NAME	LOCATION FROM (KEY SIDE) ROOM #	LOCATION TO (SECURE SIDE) ROOM NAME	LOCATION TO (SECURE SIDE) ROOM #	DOOR OPENING SIZE WIDTH	DOOR OPENING SIZE HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR GLAZING TYPE	DOOR THICK	DOOR CONFIG	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE RATING	HARDWARE ANSI FUNCTION	HARDWARE FUNCTION DESCRIPTION	DOOR HARD WARE SET #	SIGNAGE TYPE	SIGNAGE TEXT	COMMENTS
203	SCIENCE LAB	203	CORRIDOR	C9	3' - 0"	7' - 0"	ETR	ETR	P4	ETR	1 3/4"	SINGLE	ETR	ETR	P4	-	-	-	ETR	ETR	EXISTING TO REMAIN -	ETR	-	-	
203A	SCIENCE LAB	203	PREP ROOM	203A	3' - 0"	7' - 0"	HG	HM	P4	G-5	1 3/4"	SINGLE	F1	HM	P4	-	-	-	-	F84	CLASSROOM - CYLINDER	SET 1	-	-	
224.1	CHEMISTRY LAB	224	CORRIDOR	C10	3' - 0"	7' - 0"	HG	HM	P4	G-5	1 3/4"	SINGLE	ETR	ETR	P4	-	-	-	-	F84	CLASSROOM - CYLINDER	SET 1	-	-	
224.1A	CHEMISTRY LAB	224	CHEMISTRY STORAGE & PREP	224A	3' - 0"	7' - 0"	HG	HM	P4	G-5	1 3/4"	SINGLE	ETR	ETR	P4	-	-	-	-	F84	CLASSROOM - CYLINDER	SET 2	-	-	
224.2	CHEMISTRY LAB	224	CORRIDOR	C10	3' - 0"	7' - 0"	ETR	ETR	P4	ETR	1 3/4"	SINGLE	ETR	ETR	P4	-	-	-	ETR	ETR	EXISTING TO REMAIN -	ETR	-	-	
224.2A	CHEMISTRY LAB	224	CHEMISTRY STORAGE & PREP	224A	3' - 0"	7' - 0"	HG	HM	P4	G-5	1 3/4"	SINGLE	ETR	ETR	P4	-	-	-	-	F84	CLASSROOM - CYLINDER	SET 2	-	-	



F FLUSH 1/4" = 1'-0"

HG HALF GLASS 1/4" = 1'-0"

F1 HOLLOW METAL FRAME 1/4" = 1'-0"

F2 HOLLOW METAL FRAME 1/4" = 1'-0"

HARDWARE SETS

SET #1 - NEW CLASSROOM DOOR
3 HINGES
1 LOCKSET: LEVER TRIM
1 CLOSER
1 DOOR STOP
4 SILENCERS

SET #2 - REPLACED CLASSROOM DOOR
3 HINGES
1 LOCKSET: LEVER TRIM
1 DOOR STOP
3 SILENCERS

GENERAL NOTES

1. SEE SHEET PROJECT MANUAL FOR GLAZING TYPES.
2. COORDINATE ALL HOLLOW METAL FRAME THROAT DIMENSIONS WITH PARTITION TYPES
3. VERIFY EXISTING FRAME DIMENSIONS & HARDWARE LOCATIONS PRIOR TO SUBMISSION OF SHOP DRAWINGS

DOOR SCHEDULE LEGEND

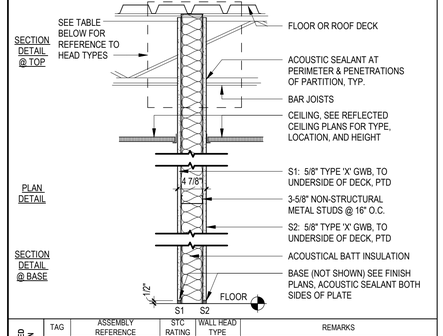
WD	WOOD VENEER WITH FACTORY FINISH
ALUM	ALUMINUM
ALUM/FG	ALUMINUM FRAME/ FIBERGLASS PANELS
HM	HOLLOW METAL
FF	FACTORY FINISH
PT-___	PAINTED; SEE INTERIOR FINISH KEY FOR COLOR CODE REFERENCE.

GLAZING SCHEDULE

G-5: 1/4" MONOLITHIC TEMPERED SAFETY GLASS, NON FIRE RATED, CLEAR

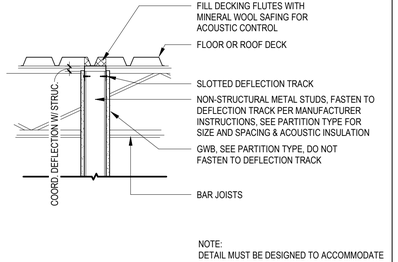
PARTITION TYPE NOTES

1. SEE MECHANICAL DRAWINGS FOR FIRE OR SMOKE DAMPER REQUIREMENTS.
2. ALL FIRE RATED AND SMOKE RATED PARTITIONS ARE TO BE IDENTIFIED WITH ADHESIVE LABELS OR STENCILS IN ACCESSIBLE CONCEALED SPACES, SEE PARTITION TYPES AND CODE PLANS FOR LOCATION OF RATED PARTITIONS.
3. ALL WALL FRAMING TO BE MIN. 20 GA. PROVIDE HEAVIER IF REQUIRED FOR BEARING OR DEFLECTION CONDITIONS.
4. PROVIDE MOISTURE RESISTANT GWB ON WALLS & CEILINGS IN ALL BATHROOM, RESTROOM & SHOWER LOCATIONS, & WITHIN 4'-0" OF A SINK, TOILET OR DRINKING FOUNTAIN.
5. PROVIDE TILE BACKER BOARD IN LIEU OF GWB AT ALL LOCATIONS TO RECEIVE TILE FINISH. SEE INTERIOR ELEVATIONS, AND FINISH PLANS.
6. INSTALL ALL FIRE RATED WALL AND CEILING ASSEMBLIES FOLLOWING DETAILS, FASTENERS AND SPACING IN ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY.



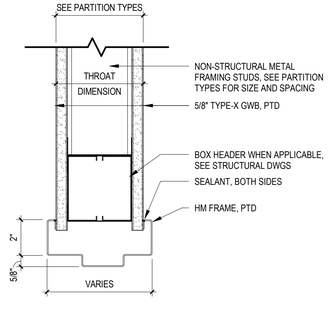
NON-RATED PARTITION	TAG	ASSEMBLY REFERENCE	STC RATING	WALL HEAD TYPE	REMARKS
	S4A	ACOUSTIC CONSTRUCTION	37	SH1	---
	S4A1	NONE	32	SH1	OMIT ACOUSTIC BATT INSULATION & SEALANT

S4A

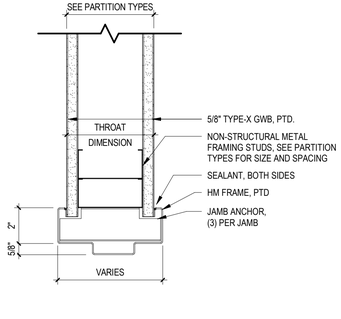


NOTE:
DETAIL MUST BE DESIGNED TO ACCOMMODATE EXPECTED VERTICAL MOVEMENT OF THE CONNECTING STRUCTURE ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS.

SH1 HEAD OF WALL DETAIL — FIRE RATING & ASSEMBLY: NONE — REMARKS: ---



___ - INTERIOR HM JAMB @ METAL STUD



___ - INTERIOR HM JAMB @ METAL STUD

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RVCC LAB RENOVATIONS
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1 COLLEGE PLACE
CLAREMONT NH 03743

LICENSED ARCHITECT
JONATHAN W. SMITH
NO. 3418
THE STATE OF NEW HAMPSHIRE

SCALE: AS NOTED
JOB #: 3773
DWN BY: RH
CHK BY: JS

PRINT DATE: 8/11/2023 1:21:08 PM

ISSUE DATE: 04/28/2023

FOR CONSTRUCTION

REVISION	DATE	COMMENTS
1	8/3/2023	ADDENDUM 1

PARTITION TYPES & DOOR SCHEDULE

A601

SHEET NUMBER: 10 OF 10 ARCHITECTURAL

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TEMPLATE DATE: 11/25/2019