CORNELL UNIVERSITY
FACILITIES CONTRACTS
121 HUMPHREYS SERVICE BUILDING
ITHACA, NEW YORK 14853-3701

COMSTOCK HALL 5TH FLOOR LAB
AND SUPPORT SPACE RENOVATIONS

ADDENDUM NO. 1

December 15, 2025

This Addendum contains changes to the requirements of the Contract Documents and Specifications. Such changes are to be incorporated into the Construction Documents and shall apply to the work with the same meaning and force as if they had been included in the original document. Wherever this Addendum modifies a portion of a paragraph of the specifications or a portion of any Drawing, the remainder of the Paragraph or Drawing shall remain in force.

NOTE: Provisions of all Contract Documents apply.

Note: Any specified materials, equipment, systems, etc., shall have "or equal to" added to the description if not already there. Contractors should note any substitutions in their bid submission.

Item 1. INSTRUCTIONS TO BIDDERS, INS-6, Item 15.c.

DELETE "…2:00PM on January 6, 2026",

REPLACE with "…2:00PM on **January 13, 2026**"

*The final RFI deadline is 12:00PM on **January 2, 2026**.

TECHNICAL SPECIFICATIONS

Item 2. **ADD** Section 12 24 13 - Roller Window Shades, attached.

Item 3. Section 23 09 23 – Building Automation Control System, Paragraph 1.2, A – Description

DELETE Paragraph A in its entirety,

REPLACE with

A. Provide labor, materials, equipment and services as required for the complete installation designed in Contract Drawings. Extend existing Building Automation Control System (BACS), to perform the functions described in this Section. All new equipment shall be compatible with the existing system and provide feedback to the building central HVAC system controls for but not limited to supply temperature reset, static and differential pressure reset, heating and cooling requests. The existing building central HVAC system controls are Automated Logic Corporation. Provide wiring and conduit required to connect devices furnished as a part of, or accessory to, this automatic control system. Control wiring is defined as wiring up to and including 120 volts. Install wiring in accordance with requirements of "Electrical Wiring" in Section 230504, and the National Electrical Code. Provide all required devices for proper system operation, including special electrical switches, transformers, relays, pushbutton stations, etc.

Item 4. Section 23 09 23, Paragraph 1.4, A – Acceptable Makes

DELETE Paragraph A in its entirety,

REPLACE with

A. The complete Building Management System is designed and based on that manufactured by Automated Logic Corporation. Acceptable Make: Automated Logic Corporation, Alerton (or equal.)

DRAWINGS

Item 5. DRAWING AD-101 – Fifth Floor Demolition Plan

DELETE in its entirety,

REPLACE with revised Drawing AD-101R, attached.

Item 6. DRAWING AD-111 – Fifth Floor Demolition RCP

DELETE in its entirety,

REPLACE with revised Drawing AD-111R, attached.

Item 7. DRAWING A-101 – Fifth Floor Plan

DELETE in its entirety,

REPLACE with revised Drawing A-101R, attached.

Item 8. DRAWING A-130 - Fifth Floor Reflected Ceiling Plan

DELETE in its entirety,

REPLACE with revised Drawing A-130R, attached.

Item 9. DRAWING A-421 – Interior Elevations

DELETE in its entirety,

REPLACE with revised Drawing A-421R, attached.

Item 10. Drawing MD-101 – Partial Fifth Floor Demolition Plan - Ductwork

DELETE in its entirety,

REPLACE with revised Drawing MD-101R, attached.

Item 11. Drawing M-101- Partial Fifth Floor Plan - Ductwork

DELETE in its entirety.

REPLACE with revised Drawing M-101R attached.

Item 12. Drawing M-402 – Control Schematic and System Summaries

DELETE in its entirety.

REPLACE with revised Drawing M-402R attached.

Item 13. Drawing M-500 – Details - HVAC

DELETE in its entirety.

REPLACE with revised Drawing M-500R attached.

Item 14. Pre-bid Sign-in Sheet attached for Contractors' reference only.

Item 15. RFI Questions and Clarifications

See attached RFI Log Items (1 – 6)

Attachments:
Section 12 24 13
Drawing AD-101R
Drawing AD-111R
Drawing A-101R
Drawing A-130R
Drawing A-421R
Drawing MD-101R
Drawing M-101R
Drawing M-402R
Drawing M-500R
Pre-bid Meeting Sign-in Sheet (for reference only)
RFI Log (Items 1 – 6)

******END OF ADDENDUM******

SECTION 12 24 13 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Manually operated roller shades with single rollers.

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 Initial Selection: For each type and color of shadeband material.
   1. Include Samples of accessories involving color selection.

D. Samples for Verification: For each type of roller shade.
   1. Roller Shade: Full-size operating unit, not less than 16 inches wide by 36 inches long for each type of roller shade indicated.
   2. Installation Accessories: Full-size unit, not less than 10 inches long.

E. Product Schedule: For roller shades. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.4 CLOSEOUT SUBMITTALS

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

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Roller Shades: Full-size units equal to 5 percent of quantity installed for each size, color, and shadeband material indicated, but no fewer than two units.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

1.7 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.

1.8 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 MANUFACTURERS

A. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Draper, Inc.
2. Lutron Electronics Co., Inc.
3. MechoShade Systems, LLC.

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: Stainless steel .
   a. Loop Length: Full length of roller shade.
   b. Limit Stops: Provide upper and lower ball stops.
   c. Chain-Retainer Type: Clip, jamb mount.

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. Shadebands:
1. Shadeband Material: Light-filtering 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: As selected by Architect from manufacturer's full range.

F. 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.
2. Endcap Covers: To cover exposed endcaps.
3. Installation Accessories Color and Finish: As selected from manufacturer's full range.

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-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Roller shade manufacturer.
2. Type: Woven polyester and PVC-coated polyester.
3. Weave: Mesh.
4. Openness Factor: 3 percent.
5. Color: As indicated on Drawings.

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:
1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch per side or 1/2-inch total, plus or minus 1/8 inch. Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch, plus or minus 1/8 inch.
2. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

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.
   2. Railroaded Materials: Railroad material where material roll width is less than the required width of shadeband and where indicated. Provide battens and seams as required by railroaded material to produce shadebands with full roll-width panel(s) plus, if required, one partial roll-width panel located at top of shadeband.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, locations of connections to building electrical system, 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.

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 12 24 13

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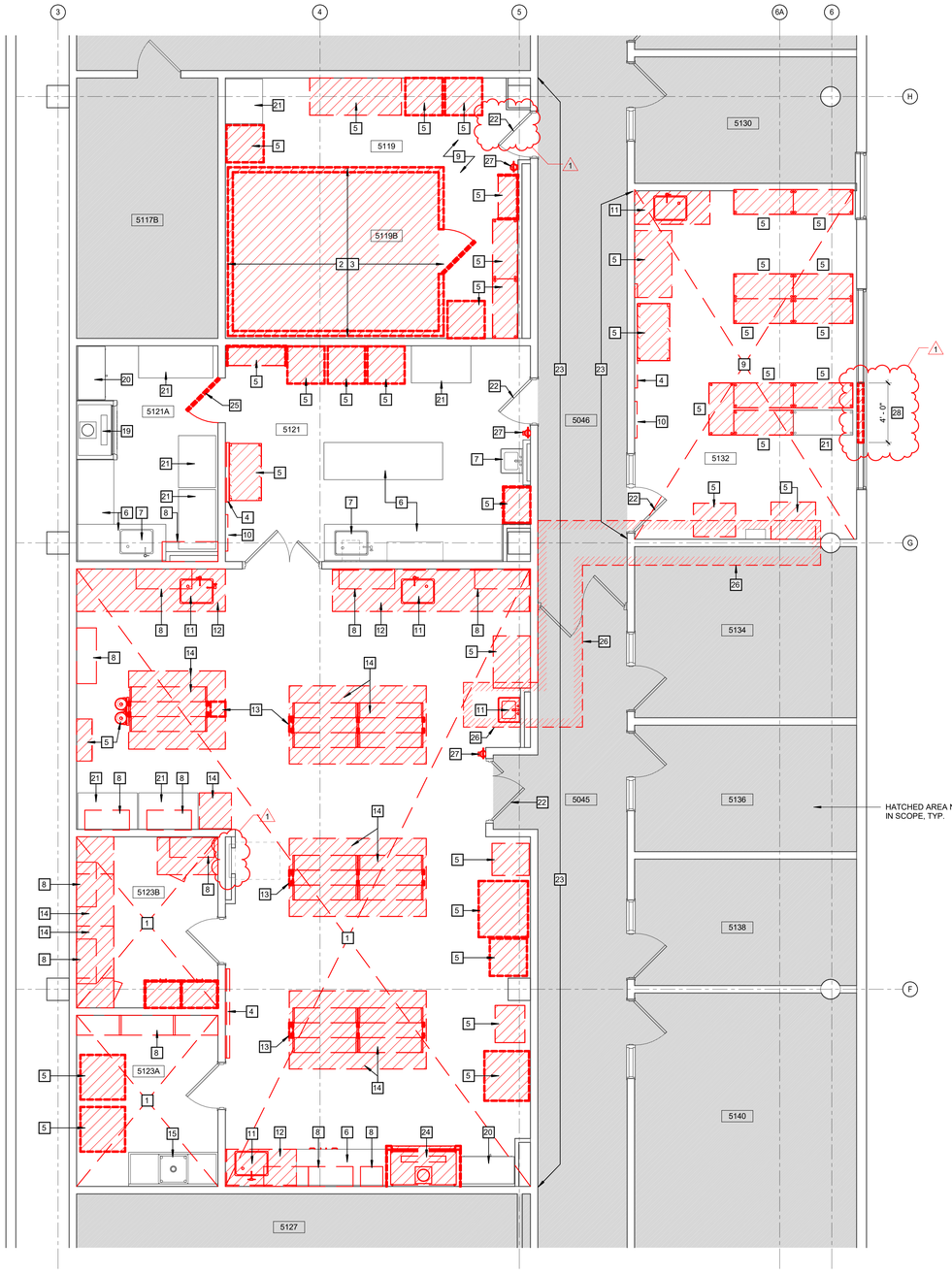
GENERAL DEMOLITION NOTES

1. DOCUMENTATION OF EXISTING CONDITIONS IS DERIVED FROM EXISTING SURVEYS, DRAWINGS AND LIMITED FIELD INSPECTION. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS SHALL WALK THE SITE AND SATISFY THEMSELVES TO EXISTING VISUAL CONDITIONS. THE ARCHITECT SHALL BE CONSULTED WHEN ANY QUESTION ARISES RELATIVE TO MATERIALS AND CONDITIONS NOT SPECIFICALLY SHOWN OR SPECIFIED.
2. ALL EXISTING WORK (CEILING, FLOORS, WALLS, FINISHES, ETC.) DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED AND REFINISHED. PATCHING AND FINISH WORK IS THE REPAIR WORK REQUIRED TO RESTORE SURFACES TO THE ORIGINAL CONDITION AND/ OR MATCHING THE ADJACENT SURFACES. MISCELLANEOUS FINISH REQUIREMENTS TO WALL, FLOOR AND CEILING IN AREAS AFFECTED BY DEMOLITION HAVE NOT BEEN TOTALLY INCORPORATED INTO THE ROOM FINISH SCHEDULE. REFER TO THE DEMOLITION , FLOOR AND REFLECTED CEILING PLANS FOR ADDITIONAL CUTTING, PATCHING AND REFINISHING WORK SCOPE.
3. ALL EXISTING FIRE-RESISTANT CONSTRUCTION MUST BE MAINTAINED OR MADE TO COMPLY WITH THE REQUIREMENTS AS ESTABLISHED BY THIS CONTRACT. SEE THE CODE COMPLIANCE PLANS FOR THE FIRE RESISTANT RATINGS OF EXISTING AND NEW CONSTRUCTION.
4. CARE SHALL BE TAKEN TO LIMIT IMPACT OF CONSTRUCTION ON THE SURROUNDING OCCUPANTS AND OPERATIONS DURING THE PROJECT. SAFE LEGAL PASSAGES SHALL BE PROVIDED FOR ALL BUILDING OCCUPANTS DURING ALL THE PHASES OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE PATHWAYS FOR CONSTRUCTION ACTIVITY AND SCHEDULE LOUD WORK WITH OWNER PRIOR TO COMMENCING CONSTRUCTION.
5. ALL CONTRACTORS ARE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED TO COMPLETE THEIR WORK. FOR NEW OPENINGS IN EXISTING MASONRY WALLS, UNLESS SPECIFICALLY INDICATED OTHERWISE, THE TRADE REQUIRING THE OPENING SHALL PROVIDE THE DEMOLITION, LINTEL INSTALLATION AND RECONSTRUCTION.
6. CONTRACTORS ARE TO PROVIDE ADEQUATE SUPPORT FOR WALLS, LOAD-BEARING WALLS, AND PARTITIONS DURING DEMOLITION AND CONSTRUCTION.
7. WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTOR'S WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, SUBJECT TO ARCHITECT'S APPROVAL AND WITHOUT COMPENSATION.
8. ALL EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED BY OWNER PRIOR TO START OF DEMOLITION. ALL EXISTING CASEWORK OR EQUIPMENT TO BE REMOVED AND INSTALLED, SHALL BE STORED BY CONTRACTOR TO FACILITATE FLOORING IMPROVEMENTS.



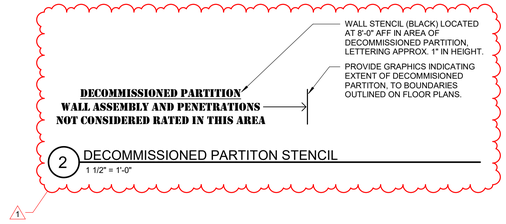
1 PARTIAL FIFTH FLOOR DEMOLITION PLAN
1/4" = 1'-0"

5TH FLOOR DEMOLITION KEY NOTES

SHOWN AS: [X]

NO.	DESCRIPTION
1	CLEAN AND PREP EPOXY FLOORING AND INTEGRAL BASE TO RECEIVE NEW EPOXY FINISHES. GRIND DOWN HIGH SPOTS AND PATCH LOW SPOTS WITH EPOXY MORTAR TO PROVIDE CONSISTENT LEVEL SURFACE. SOUND AND REMOVE ANY UNBONDED AREAS. MECHANICALLY PREPARE LEVELED SURFACE WITH DUSTLESS GRINDING OR SANDING. PROVIDE PRIMER AT MANUFACTURER'S RECOMMENDATION.
2	HATCHED AREA NOTATES REMOVAL OF CONCRETE PAD. PREP THE SURFACE TO RECEIVE SCHEDULED FLOORING AND WALL BASE.
3	REMOVE CHAMBER IN ITS ENTIRETY, INCLUDING ALL ATTACHED DUCTWORK, PIPING, AND CONDUIT. REFER TO MEP DRAWINGS FOR COMPLETE SCOPE OF SYSTEMS DISCONNECTION.
4	REMOVE CHALK/WHITEBOARD, PATCH WALL SURFACE AT REMOVAL.
5	FURNITURE/EQUIPMENT TO BE REMOVED AND STORED BY OWNER, TYP.
6	LAB TABLES AND BENCH TO REMAIN.
7	SINK TO REMAIN.
8	REMOVE WALL SHELF AND STANDARDS. PATCH WALL AT REMOVAL OF ANCHORS.
9	REMOVE VCT FLOORING AND RESILIENT WALL BASE. PREP CONCRETE SUBSTRATE TO RECEIVE NEW FINISH.
10	REMOVE COAT HOOKS.
11	REMOVE SINK AND BASE. CAP PLUMBING FOR SALVAGED SINK INSTALLATION. SEE PLUMBING DWGS. PATCH WALLS AND FLOOR AT REMOVAL OF BASE CABINET.
12	REMOVE LAB BENCH IN ITS ENTIRETY INCLUDING SINK AND BASE. CAP PLUMBING FOR NEW SINK INSTALLATION. SEE PLUMBING DWGS. PATCH WALLS AND FLOOR AT REMOVAL OF BENCH
13	REMOVE UTILITY CHASE.
14	REMOVE LAB BENCH, CASEWORK, AND UPPER SHELVING ASSEMBLY WHERE PRESENT IN ITS ENTIRETY, INCLUDING ALL SERVICE CONNECTIONS.
15	REMOVE & SALVAGE STAINLESS SINK TO BE RELOCATED TO ROOM 5132. CAP PLUMBING PIPING, SEE PLUMBING DWGS. PATCH WALLS AT REMOVAL OF SINK.
16	REMOVE LIGHT FIXTURE, SEE ELEC. DWGS.
17	REMOVE SUSPENDED CEILING GRID AND PANELS, INCLUDING ALL LIGHTING, AIR TERMINALS, AND OTHER DEVICES LOCATED IN THE CEILING SYSTEM. SEE MEP DWGS FOR COMPLETE SCOPE OF REMOVALS.
18	REMOVE & SALVAGE SUSPENDED CEILING GRID AND PANELS. SALVAGE CEILING MOUNT LIGHT FIXTURES FOR REINSTALLATION. SEE MEP DWGS FOR COMPLETE SCOPE OF REMOVALS.
19	FUME HOOD TO REMAIN. PROTECTIVE MEASURES SHALL BE TAKEN DURING CONSTRUCTION.
20	FLAMMABLE CABINET TO REMAIN. PROTECTIVE MEASURES SHALL BE TAKEN DURING CONSTRUCTION.
21	SALVAGE FURNITURE/EQUIPMENT TO BE STORED AND REINSTALLED BY OWNER, TYP.
22	AT DOORS LOCATED IN CORRIDOR WALL THAT IS NO LONGER CONSIDERED RATED, REMOVE ANY TAGS INDICATING A FIRE RATING AND PROVIDE TAGS ON HINGE SIDE OF DOOR AND FRAME INDICATING THAT OPENING HAS BEEN DECOMMISSIONED. BOD LABEL: REMEDI8 LBL-FDS-DECOMLBL.
23	AT CORRIDOR WALL THAT IS NO LONGER CONSIDERED RATED, REMOVE ANY TAGS OR STENCILS INDICATING THAT THE PARTITION AND ANY FIRESTOPPED THROUGH PENETRATIONS ARE RATED. REMOVE ONE (1) FIRE DAMPER WITHIN THE RENOVATION AREA. PROVIDE STENCILS AT 8' - 0" AFF AND SPACED AT 48" OC MAX ALONG LENGTH OF CORRIDOR WALL AT WORK AREA INDICATING THAT PARTITION IS DECOMMISSIONED. SEE STENCIL DETAIL 2/AD-101R.
24	REMOVE DECOMMISSIONED FUME HOOD. COORDINATE WITH OWNER'S REPRESENTATIVE. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25	REMOVE DOOR, FRAME AND HARDWARE.
26	EXTENT OF REMOVALS AT 4TH FLOOR SPLINE CEILING TO FACILITATE PLUMBING INSTALLATION. SEE 2/A-130. APPROXIMATELY 120 SF. REMOVE AND SALVAGE EXISTING LIGHTING, AIR TERMINALS, AND OTHER CEILING-MOUNTED FIXTURES WITHIN AREA REQUIRED FOR PLUMBING INSTALLATION.
27	REMOVE AND SALVAGE FIRE EXTINGUISHER FOR REINSTALLATION. REMOVE EXISTING WALL BRACKET AND PATCH WALL AT REMOVAL.
28	REMOVE GYP BOARD PARTITION IN FRONT OF EXISTING WINDOW. CLEAN HEAD AND SILL AT REMOVAL.

PLEASE NOTE: NOT ALL KEYNOTES USED IN EACH VIEW.



2 DECOMMISSIONED PARTITON STENCIL
1 1/2" = 1'-0"

SWBR
260 E Main St Suite 4000 Rochester, NY 14604
585.232.8300 | rochester@swbr.com
SWBR NYS Certificate of Authorization #: 235221

LICENSED ARCHITECT
STEVEN D. FERRARA
031855
STATE OF NEW YORK

Issue Date: 12/12/25
Registration Expires: 11/30/27

Drawn By:	SM
Checked By:	MJP
Project Manager:	MJP

Revisions

1	12/17/2025	Addendum #1

COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
129 Garden Ave
Ithaca, NY 14853
SWBR Project Number 25044.00

Cornell University
Ithaca, NY 14853

AD-101R
FIFTH FLOOR DEMOLITION PLAN

11/7/2025
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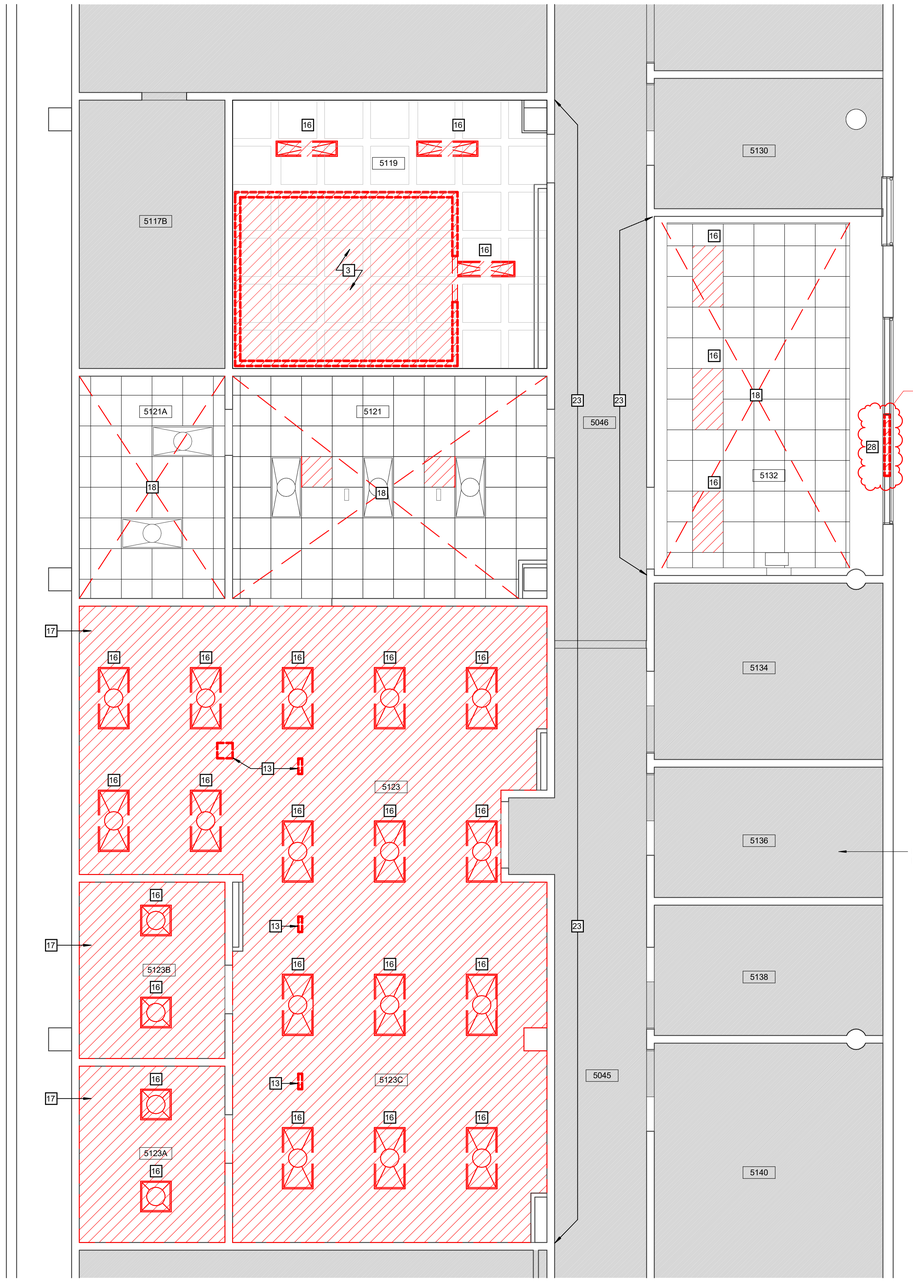

1 PARTIAL FIFTH FLOOR CEILING DEMOLITION PLAN
1/4" = 1'-0"

5TH FLOOR DEMOLITION KEY NOTES

SHOWN AS: X

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14	REMOVE LAB BENCH, CASEWORK, AND UPPER SHELVING ASSEMBLY WHERE PRESENT IN ITS ENTIRETY, INCLUDING ALL SERVICE CONNECTIONS.
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22	AT DOORS LOCATED IN CORRIDOR WALL THAT IS NO LONGER CONSIDERED RATED, REMOVE ANY TAGS INDICATING A FIRE RATING AND PROVIDE TAGS ON HINGE SIDE OF DOOR AND FRAME INDICATING THAT OPENING HAS BEEN DECOMMISSIONED. BOD LABEL: REMEDI8 LBL-FDS-DECOMLBL.
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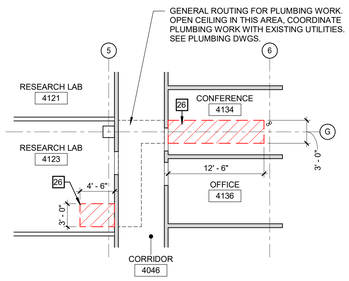
24	REMOVE DECOMMISSIONED FUME HOOD. COORDINATE WITH OWNERS REPRESENTATIVE. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25	REMOVE DOOR, FRAME, AND HARDWARE.
26	EXTENT OF REMOVALS AT 4TH FLOOR SPLINE CEILING TO FACILITATE PLUMBING INSTALLATION. SEE 2/A-130, APPROXIMATELY 120 SF. REMOVE AND SALVAGE EXISTING LIGHTING, AIR TERMINALS, AND OTHER CEILING-MOUNTED FIXTURES WITHIN AREA REQUIRED FOR PLUMBING INSTALLATION.
27	REMOVE AND SALVAGE FIRE EXTINGUISHER FOR REINSTALLATION. REMOVE EXISTING WALL BRACKET AND PATCH WALL AT REMOVAL.
28	REMOVE GYP BOARD PARTITION IN FRONT OF EXISTING WINDOW. CLEAN HEAD AND SILL AT REMOVAL.

PLEASE NOTE - NOT ALL KEYNOTES USED IN EACH VIEW.



2 PARTIAL FOURTH FLOOR CEILING DEMOLITION PLAN
1/8" = 1'-0"

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SWBR NYS Certificate of Authorization #: 235221

LICENSED ARCHITECT STEVEN D. FERRARA 031855 STATE OF NEW YORK

Issue Date: 12/12/25
Registration Expires: 11/30/27

Drawn By:	SM
Checked By:	MJP
Project Manager:	MJP

Revisions

1	12/17/2025	Addendum #1

COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
129 Garden Ave
Ithaca, NY 14853
SWBR Project Number 25044.00

Cornell University
Ithaca, NY 14853

AD-111R
FIFTH FLOOR DEMOLITION RCP

11/7/2025
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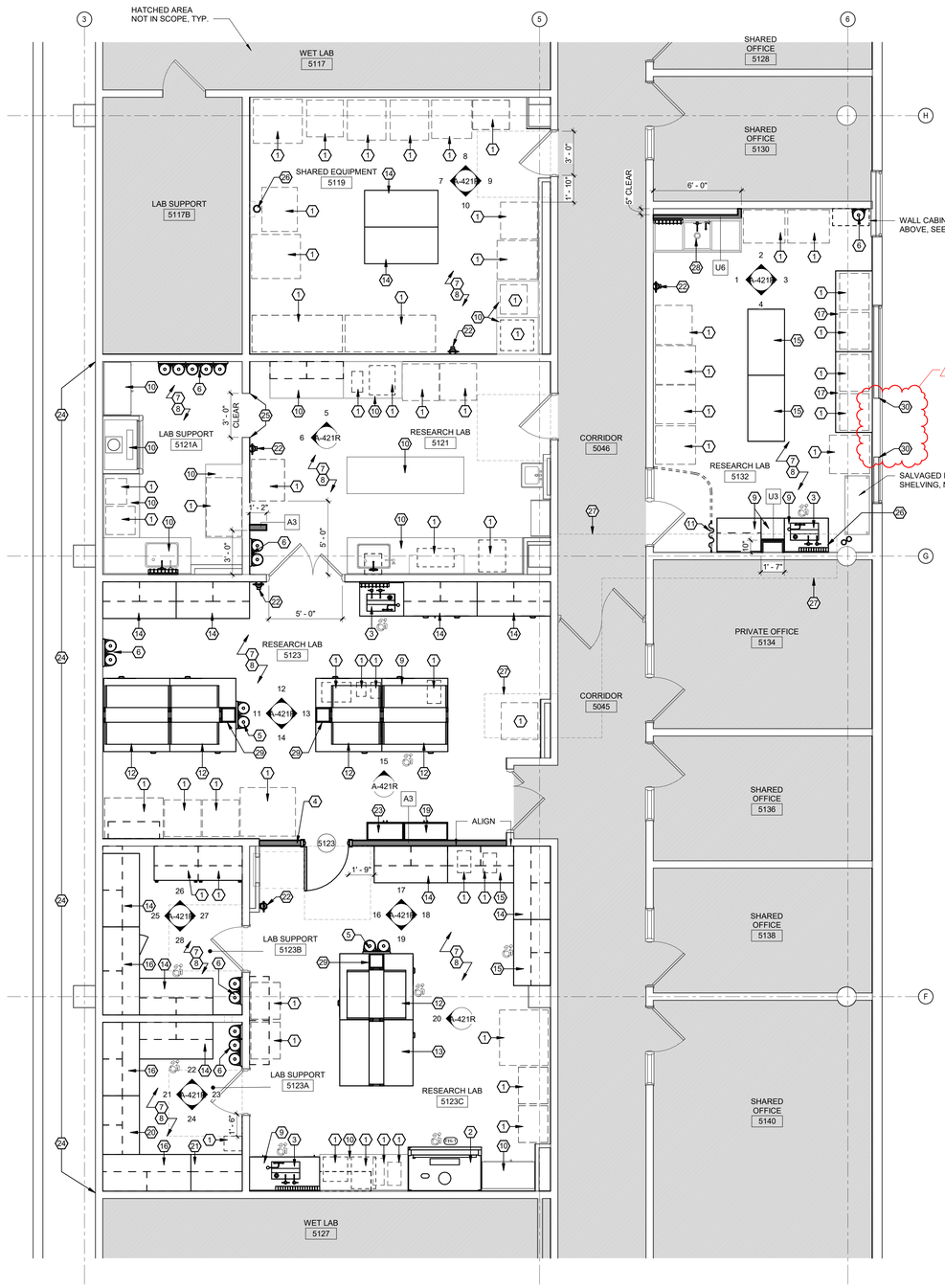

2 PARTIAL FIFTH FLOOR PLAN
1/4" = 1'-0"

GENERAL NEW WORK NOTES:

1. ALL FLOORS, WALLS, CEILINGS, AND OTHER SURFACES THAT ARE TO REMAIN ARE TO BE PATCHED, REPAIRED, AND REFINISHED PRIOR TO FINISH INSTALLATION. ALL SURFACES ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR MATCH THE ADJACENT SURFACES.

2. NEW ADA FUME HOOD ("FH-1").

5TH FLOOR PLAN KEY NOTES

NO.	DESCRIPTION (SHOWN AS: X)
1	LAB EQUIPMENT/FURNITURE - N.I.C. SEE A-800 EQUIPMENT PLAN FOR MORE INFORMATION.
2	REPLACE EXISTING FUME HOOD WITH 60" ADA FUME HOOD ON AN ADJUSTABLE BASE.
3	PROVIDE ACCESSIBLE, STEPPED BOTTOM DROP-IN EPOXY RESIN LAB SINK, SK-A 25"X15"X4.75". PROVIDE PURE WATER FAUCET AND EMERGENCY EYE WASH. SEE PLUMBING DRAWINGS.
4	PROVIDE GYP BOARD AND METAL STUD PARTITION TO MATCH EXISTING ADJACENT WALL. PREP AND PAINT GYP BD TO MATCH ADJACENT WALL FINISH. PROVIDE SCHEDULED WALL BASE.
5	PROVIDE BENCH-MOUNT GAS CYLINDER RESTRAINT (2). BASIS-OF-DESIGN: USA SAFETY GB250FS.
6	PROVIDE WALL-MOUNT GAS CYLINDER RESTRAINTS, NUMBER OF CYLINDERS AS INDICATED. BASIS-OF-DESIGN: USA SAFETY GB200FS AND GB300FS. PROVIDE A CHEMICAL SEGREGATION CHART INDICATING APPROPRIATE STORAGE METHOD.
7	PROVIDE EPOXY FLOORING AND INTEGRAL BASE, REFER TO FINISH PLANS.
8	PREP AND PAINT WALLS, REFER TO FINISH SCHEDULE.
9	PROVIDE FIXED LAB FURNITURE INCLUDING COUNTERTOP, BACKSPLASH, SIDESPLASH, PAINTED STEEL BASE CABINETS, AND UPPER SHELVING.
10	EXISTING LAB FURNITURE/CASEWORK TO REMAIN. PROTECT DURING DEMOLITION AND CONSTRUCTION.
11	MANUAL RETRACTABLE INSECT CURTAIN. PROVIDE CEILING GRID-MOUNTED ALUMINUM TRACK WITH CURVING CORNER, EXTENDING TIGHT TO ADJACENT WALLS. PROVIDE NYLON ROLLER HOOK TROLLEYS FOR SUSPENDING CURTAIN. PROVIDE MIN. 12" VALANCE ATTACHED TO TRACK AND TIGHT TO CEILING. CURTAIN TO BE AFFIXED TO SIDE WALLS WITH SCREW ANCHORS SO THAT THERE ARE NO GAPS BETWEEN THE EDGE OF CURTAIN AND WALL SURFACE. PROVIDE MAGNETIC OR ZIPPER TRACK IN THE CENTER OF THE CURTAIN, AND GASKET AND BOTTOM POCKET WITH CHAIN OR ROPE WEIGHT. BASIS-OF-DESIGN FOR INSECT CURTAIN MATERIAL: PHIFER SHEERWEAVE 2360, .011/.011, COLOR: OYSTER. BASIS-OF-DESIGN FOR CURTAIN TRACK: AKON CURTAINS
12	54" X 24" CANTILEVERED EPOXY RESIN LAB WORKBENCH ON FULL-HEIGHT 12" ISLAND CORE WITH FILLER PANELS. BASIS-OF-DESIGN: MOTT SIGMA FLEX.
13	54" X 24" CANTILEVERED EPOXY RESIN LAB WORKBENCH ON LOWER-HEIGHT 12" ISLAND CORE WITH FILLER PANELS. BASIS-OF-DESIGN: MOTT SIGMA FLEX.
14	60" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 60" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
15	54" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 54" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
16	72" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 72" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
17	66" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 66" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
19	PROVIDE 36"W X 14"D X 84"H TALL CABINETS WITH HINGED FRAMED GLASS DOOR UNITS. BASIS-OF-DESIGN: MOTT STEEL FLOOR CABINETS - 6410030
20	48" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 72" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
21	42" x 28" FREESTANDING METAL ADAPTABLE LAB TABLE SYSTEM WITH 72" X 30" EPOXY RESIN COUNTERTOP. BASIS-OF-DESIGN: MOTT ALTUS.
22	WALL-MOUNTED FIRE EXTINGUISHER, SEE DETAIL 2/G-001.
23	PROVIDE 30"W X 14"D X 84"H TALL CABINETS WITH HINGED FRAMED GLASS DOOR UNITS. BASIS-OF-DESIGN: MOTT STEEL FLOOR CABINETS - 6410030
24	PROVIDE FIRESTOPPED THROUGH PENETRATIONS FOR NEW UTILITIES. AT EXISTING PENETRATIONS IN SHAFTWALL, PROVIDE FIRESTOPPING AT ALL NON-CONFORMING PENETRATIONS, AND ADD FIRESTOPPING TO ALL VOIDS IN THE SHAFTWALL. SEE PENETRATION SCHEDULE ON G-002 FOR LISTING OF APPLICABLE PENETRATION TYPES, MATERIALS, AND RECOMMENDED U.L. SYSTEMS. COORDINATE ALL LOCATIONS, ELEVATIONS, AND PENETRATION SIZING WITH MEP/FP DRAWINGS.
25	PROVIDE HOLLOW METAL CASED OPENING AT DOOR REMOVAL, PAINT.
26	PROVIDE THROUGH PENETRATIONS FOR NEW SINK/EQUIPMENT. SEE PENETRATION SCHEDULE ON G-002 FOR LISTING OF APPLICABLE PENETRATION TYPES, MATERIALS, AND RECOMMENDED U.L. SYSTEMS. COORDINATE ALL LOCATIONS, ELEVATIONS, AND PENETRATION SIZING WITH PLUMBING DRAWINGS.
27	EXTENT OF PLUMBING WORK ON THE 4TH FLOOR. SEE 2/A-130. PROVIDE GYP BOARD CEILING ON SALVAGED BACKUP SUSPENSION SYSTEM. PROVIDE FINISHED CEILING CONSISTENT WITH EXISTING ADJACENT. REINSTALL LIGHTING, AIR TERMINALS, AND OTHER FIXTURES THAT WERE REMOVED TO FACILITATE PLUMBING INSTALLATION.
28	SALVAGED SINK WITH NEW FIXTURES. SEE PLUMBING DRAWINGS.
29	1" LAB CASEWORK SERVICE CHASE. CUT WIDTH OF SERVICE CORE AND 12" DEEP.
30	PROVIDE ADDITIONAL FRAMING/BLOCKING FOR GYP BOARD RETURN JAMBS AT OPENING AND FINISH TO MATCH EXISTING PARTITION. PROVIDE TEAR-AWAY BEAD AT GLASS, AND CAULK FULL PERIMETER AT OTHER ADJACENT MATERIALS.

FIFTH FLOOR - FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
5119	SHARED EQUIPMENT	RES-1	SSF-1	PT-1	ACT-1
5121	RESEARCH LAB	ETR	ETR	PT-1	ETR/SALVAGED
5121A	LAB SUPPORT	ETR	ETR	PT-1	ETR/SALVAGED
5123	RESEARCH LAB	RES-1	SSF-1	PT-1	ACT-1
5123A	LAB SUPPORT	RES-1	SSF-1	PT-1	ACT-1
5123B	LAB SUPPORT	RES-1	SSF-1	PT-1	ACT-1
5123C	RESEARCH LAB	RES-1	SSF-1	PT-1	ACT-1
5132	RESEARCH LAB	RES-1	SSF-1	PT-1	ETR/SALVAGED

INTERIOR FINISHES & MATERIALS LIST (BY SPEC SECTION)

SECTION 06 61 16 - SOLID SURFACE FABRICATIONS
SOLID SURFACE FABRICATIONS
SSF-1 WILSONART, COLOR: BLACK ONYX MIRAGE 9092MG, 1/2" THICK, 4" HIGH BASE, SEALED TO FLOOR AND WALL WITH CORA 898 SILICONE SEALANT, INCLUDE JOINT SEALANT AT ALL HORIZONTAL AND VERTICAL FLOOR, WALL, AND BASE CABINET SURFACES.

SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS
ACOUSTICAL CEILING TILES (ACT)
ACT-1 ARMSTRONG CLEANROOM FL

SECTION 09 67 23 – RESINOUS FLOORING
EPOXY FLOORING WITH INTEGRAL BASE
RES-1 SHERWIN WILLIAMS, RESUFLOR TOPCOAT SL123 SELF-LEVELING SLURRY, GRIT LEVEL: MATCH EXISTING LABS, COLOR: STEEL GRAY #54

SECTION 09 91 00 - INTERIOR PAINTING
PAINT (PT)
PT-1 SHERWIN WILLIAMS OR BENJAMIN MOORE, FOR GYP BOARD AND MASONRY WALLS, COLOR: MATCH EXISTING LABS
PT-2 SHERWIN WILLIAMS OR BENJAMIN MOORE, FOR HM DOORS AND FRAMES, COLOR: MATCH EXISTING LABS.

SECTION 12 24 13 - ROLLER WINDOW SHADES
WINDOW TREATMENTS (WT)
WT-1 DRAPER INC. STYLE: 3G MERMET COMPANY M-SCREEN #008503 - FLEX SHADE MESH SHADE FASCIA, MANUAL CLUTCH CONTROL, 3% OPENNESS, SHADE AND HARDWARE COLORS: AS SELECTED FROM MANUFACTURER'S STANDARD RANGE.

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LICENSED ARCHITECT · STEVEN D. FERRARA · 031855 · STATE OF NEW YORK

Issue Date: 12/12/25
Registration Expires: 11/30/27

Drawn By: SM
Checked By: MJP
Project Manager: MJP

Revisions
1 12/17/2025 Addendum #1

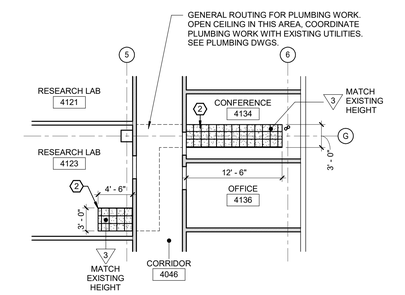
COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
129 Garden Ave
Ithaca, NY 14853
SWBR Project Number 25044.00

Cornell University
Ithaca, NY 14853

A-101R
FIFTH FLOOR PLAN

11/7/2025
100% Construction Documents

1 PARTIAL 5TH FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



2 PARTIAL FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

RCP LEGEND

- X — CEILING TYPE
- X' - X" — CEILING HEIGHT A.F.F
- PT-X — PAINT COLOR

2' X 2' SUSPENDED ACOUSTICAL CEILING

2' X 4' LIGHT FIXTURE - REFER TO E SERIES DWGS

SUPPLY DIFFUSER - REFER TO M-SERIES DWGS

RETURN GRILLES - REFER TO M-SERIES DWGS

SPRINKLER HEAD - REFER TO FP-SERIES DWGS FOR TYPE

CEILING TYPES

1. ACT - 1 ARMSTRONG CLEANROOM FL
2. EXISTING ACT CEILING - SALVAGE AND REINSTALL
3. INFILL CONCEALED SPLINE IN EXISTING CEILING AREA

RCP GENERAL NOTES

A. ALL CEILINGS ARE AT 8'-6" AFF UNLESS NOTED OTHERWISE

B. ALL CEILINGS TO BE ACT-1 UNLESS NOTED OTHERWISE

C. REFER TO AND COORDINATE WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC LIGHT FIXTURE INFORMATION.

D. ALL GYP. BD. SOFFITS TO HAVE GYP. BD. VERTICAL RETURNS UP TO THE STRUCTURE ABOVE

E. REFER TO AND COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SPECIFIC CEILING-MOUNTED FIXTURE INFORMATION AND LOCATIONS, INCLUDING BUT NOT LIMITED TO DIFFUSERS, GRILLS, ALARMS, EXIT SIGNS AND SENSORS.

F. PAINT EXPOSED STRUCTURE AS INDICATED ON REFLECTED CEILING PLAN [ROOM FINISH SCHEDULE] INCLUDING STEEL DECK, BEAMS, AND TRUSSES.

G. PAINT ALL MISCELLANEOUS HVAC, PLUMBING AND ELECTRICAL ITEMS EXPOSED ON WALLS AND HARD CEILINGS THAT ARE NOT OTHERWISE INDICATED TO BE PRE-FINISHED OR A SPECIFIC COLOR. THE COLOR SHALL MATCH THE ADJACENT OR BACKGROUND SURFACE.

H. PAINT PORTIONS OF INTERNAL SURFACES OF METAL DUCTS, WITHOUT LINERS, BEHIND AIR INLETS AND OUTLETS THAT ARE VISIBLE FROM OCCUPIED SPACES. COLOR SHALL BE "FLAT BLACK."

I. DO NOT PAINT OPERATIONAL COMPONENTS OF SYSTEMS SUCH AS SPRINKLER HEADS, FIRE, SMOKE, OR HEAT DETECTORS. COLORS OF THESE COMPONENTS ARE TO BE SELECTED TO MATCH BACKGROUND SURFACES, UNLESS OTHERWISE NOTED.

J. ALL PAINTED CEILINGS AND EXPOSED CEILING ELEMENTS TO HAVE A "FLAT" FINISH, UNLESS OTHERWISE INDICATED.

K. THE PAINT COLOR INDICATED ON GYPSUM BOARD SOFFITS SHALL APPLY TO BOTH THE HORIZONTAL AND VERTICAL SURFACES UNLESS OTHERWISE INDICATED.

RCP KEY NOTES

NO.	DESCRIPTION (SHOWN AS: ⓧ)
1	CORD AND CABLE REELS MOUNTED AT CEILING HEIGHT, ATTACHED TO UNDERSIDE OF DECK ABOVE WITH EXPANSION ANCHORS. PROVIDE SLOTTED CHANNEL TRAPEZE TO SUPPORT CORD REELS WHERE LOCATIONS CONFLICT WITH DUCTWORK OR EQUIPMENT. MOUNT CORD REEL HOUSING FLUSH TO CEILING, CONCEAL ALL PENETRATIONS THROUGH CEILING TILE.
2	EXTENT OF PLUMBING WORK ON THE 4TH FLOOR. PROVIDE GYP BOARD CEILING ON SALVAGED BACKUP SUSPENSION SYSTEM. PROVIDE FINISHED CEILING CONSISTENT WITH EXISTING ADJACENT. REINSTALL LIGHTING, AIR TERMINALS, AND OTHER FIXTURES THAT WERE REMOVED TO FACILITATE PLUMBING INSTALLATION.
3	PROVIDE MANUALLY-OPERATED ROLLER SHADE WT-1, MOUNTED TO HEAD OF OPENING, WITHIN OPENING.

1

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LICENSED ARCHITECT — STEVEN D. FERRARIS — 031855 — STATE OF NEW YORK

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Cornell University
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A-130R
FIFTH FLOOR REFLECTED CEILING PLAN

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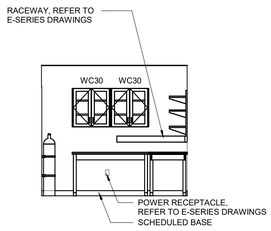
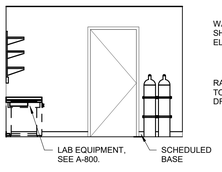
LAB CASEWORK LEGEND	
BC	BASE CABINET
WC	WALL CABINETS
WS	WALL SHELVING
DB	DRAWER BASE CABINET
AC	ACID CABINET
FS	FLAMMABLE STORAGE
MT	MOBILE TABLE
SB	SINK BASE CABINET
TC	TALL CABINET
MXX	MOBILE UNIT (CASEWORK TYPE)

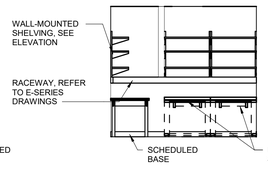
BC36 ADA — CABINET TYPE, CABINET WIDTH; ACCESSIBLE



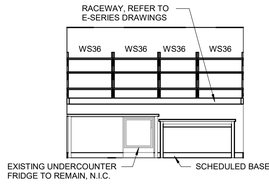
28 ROOM 5123B - SOUTH ELEVATION
1/4" = 1'-0"



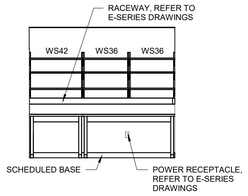
27 ROOM 5123B - EAST ELEVATION
1/4" = 1'-0"



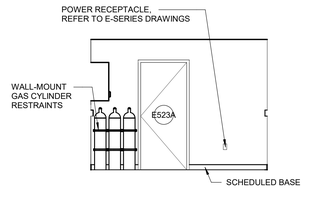
26 ROOM 5123B - NORTH ELEVATION
1/4" = 1'-0"



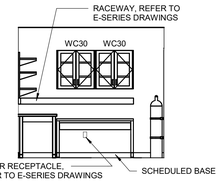
25 ROOM 5123B - WEST ELEVATION
1/4" = 1'-0"



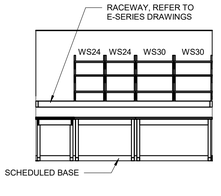
24 ROOM 5123A - SOUTH ELEVATION
1/4" = 1'-0"



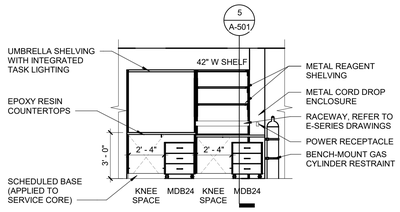
23 ROOM 5123A - EAST ELEVATION
1/4" = 1'-0"



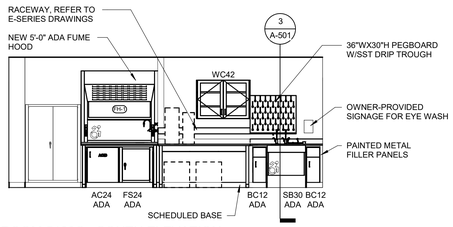
22 ROOM 5123A - NORTH ELEVATION
1/4" = 1'-0"



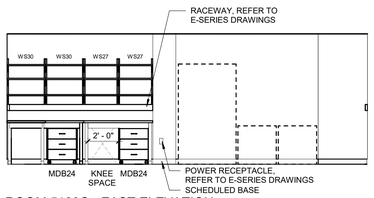
21 ROOM 5123A - WEST ELEVATION
1/4" = 1'-0"



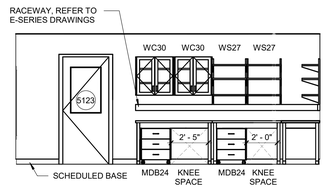
20 ROOM 5123C - LAB BENCH ELEVATION
1/4" = 1'-0"



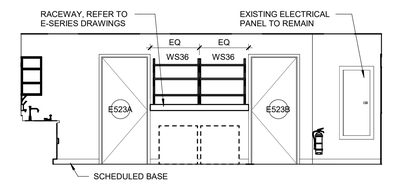
19 ROOM 5123C - SOUTH ELEVATION
1/4" = 1'-0"



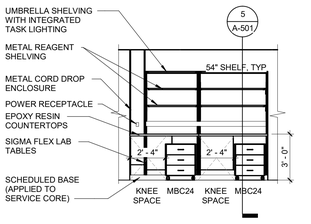
18 ROOM 5123C - EAST ELEVATION
1/4" = 1'-0"



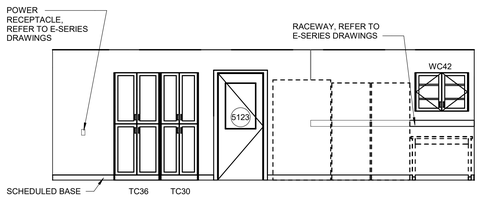
17 ROOM 5123C - NORTH ELEVATION
1/4" = 1'-0"



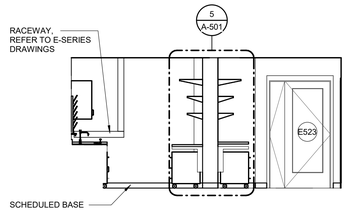
16 ROOM 5123C - WEST ELEVATION
1/4" = 1'-0"



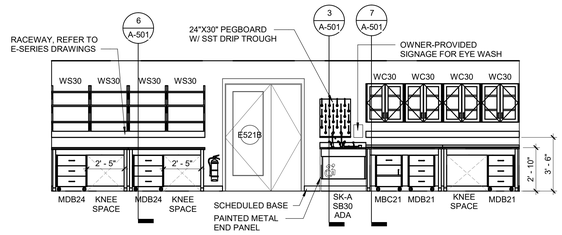
15 TYPICAL LAB BENCH ELEVATION
1/4" = 1'-0"



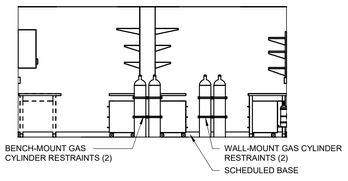
14 ROOM 5123N - SOUTH ELEVATION
1/4" = 1'-0"



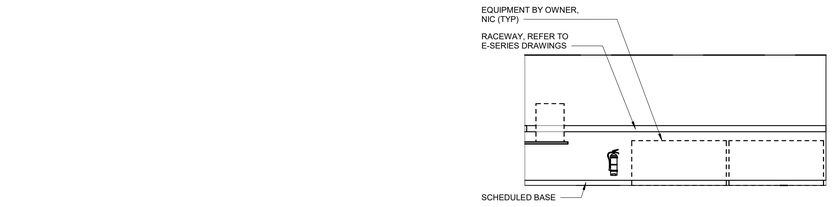
13 ROOM 5123N - EAST ELEVATION
1/4" = 1'-0"



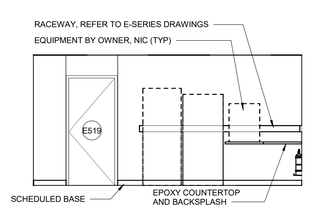
12 ROOM 5123N - NORTH ELEVATION
1/4" = 1'-0"



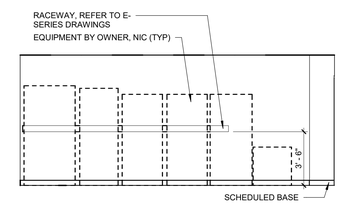
11 ROOM 5123N - WEST ELEVATION
1/4" = 1'-0"



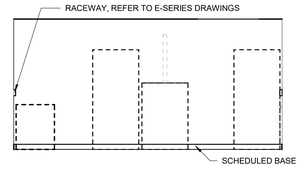
10 ROOM 5119 - SOUTH ELEVATION
1/4" = 1'-0"



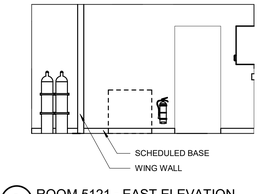
9 ROOM 5119 - EAST ELEVATION
1/4" = 1'-0"



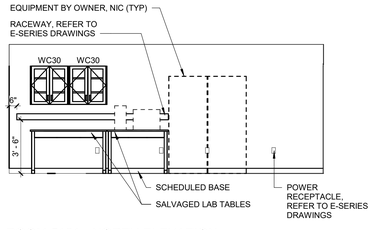
8 ROOM 5119 - NORTH ELEVATION
1/4" = 1'-0"



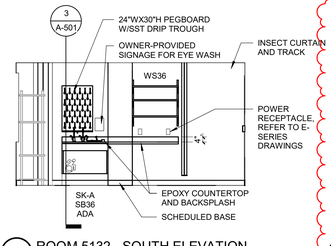
7 ROOM 5119 - WEST ELEVATION
1/4" = 1'-0"



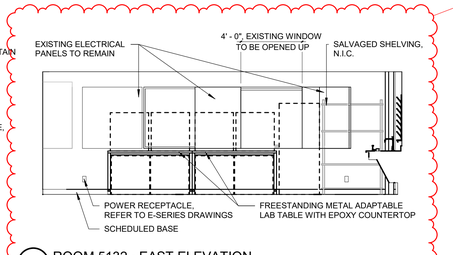
6 ROOM 5121 - EAST ELEVATION
1/4" = 1'-0"



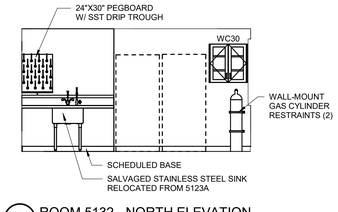
5 ROOM 5121 - NORTH ELEVATION
1/4" = 1'-0"



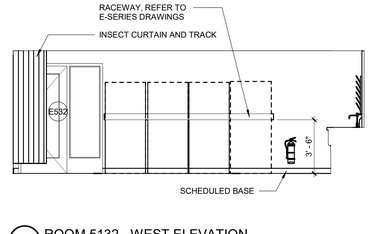
4 ROOM 5132 - SOUTH ELEVATION
1/4" = 1'-0"



3 ROOM 5132 - EAST ELEVATION
1/4" = 1'-0"



2 ROOM 5132 - NORTH ELEVATION
1/4" = 1'-0"



1 ROOM 5132 - WEST ELEVATION
1/4" = 1'-0"

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LICENSED ARCHITECT STEVEN D. FERRARIS 031855 STATE OF NEW YORK

Issue Date: 12/12/25
Registration Expires: 11/30/27

Drawn By:	SM
Checked By:	MJP
Project Manager:	MJP

Revisions

1	12/17/2025	Addendum #1

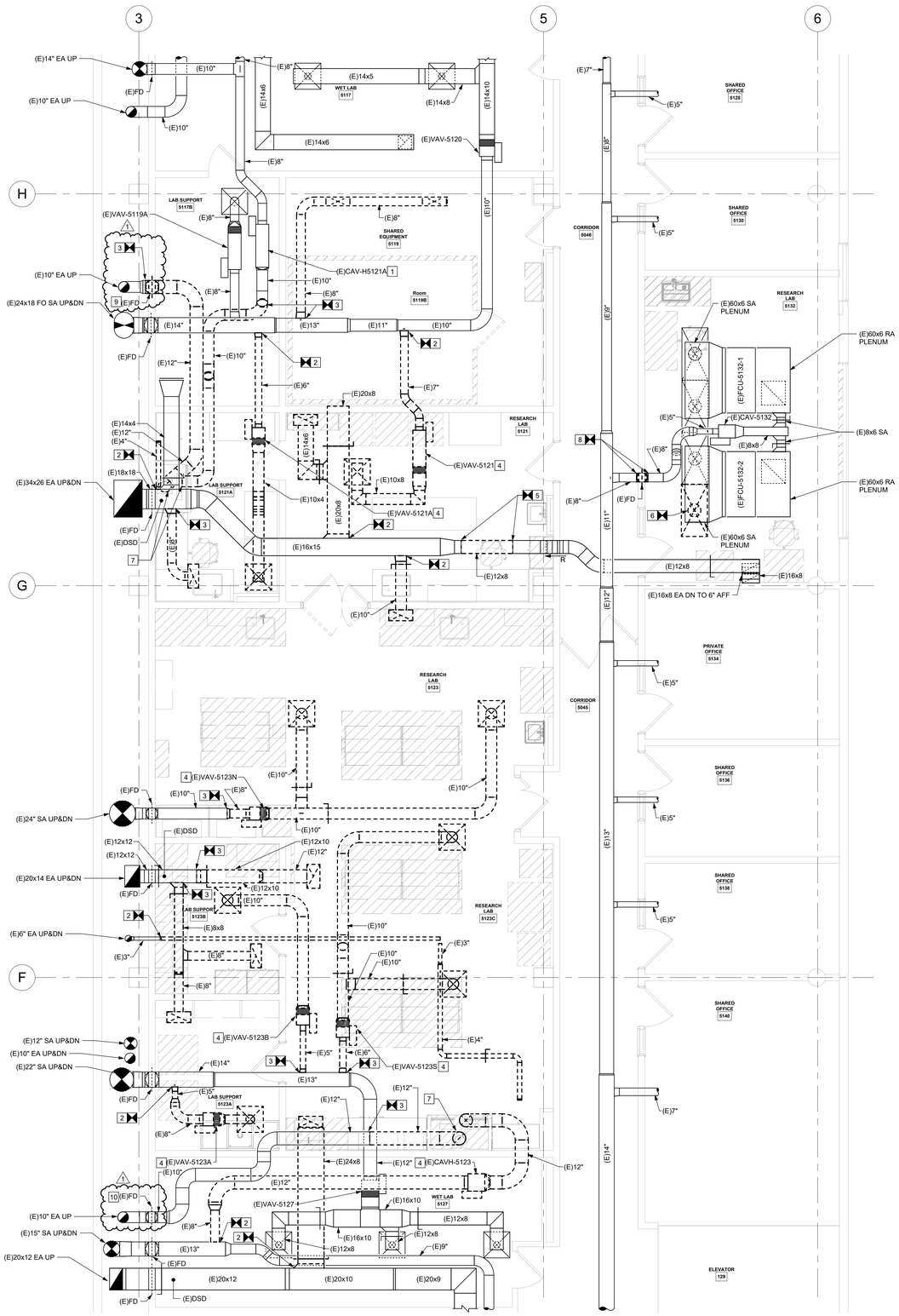
COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
129 Garden Ave
Ithaca, NY 14853
SWBR Project Number 25044.00

Cornell University
Ithaca, NY 14853

A-421R
INTERIOR ELEVATIONS

11/7/2025
100% Construction Documents

FILE PATH: Autodesk Docs://25044.00 Cornell Comstock Hall 5-6th Flr Ren PH1/25044.00 Cornell Comstock Hall 5th floor.rvt



1 PARTIAL FIFTH FLOOR DEMOLITION PLAN - DUCTWORK
1/4" = 1'-0"

X DEMOLITION NOTES:

1 DISCONNECT AND REMOVE THE EXISTING ALTERTON CONTROLS FOR THE EXISTING TO REMAIN SUPPLY AIR TERMINAL UNIT.
2 DISCONNECT AND REMOVE DUCTWORK AND ALL ASSOCIATED ACCESSORIES BACK TO MAIN /INDICATED POINT. CAP AND SEAL AIR TIGHT.
3 DISCONNECT AND REMOVE DUCTWORK AND ALL ASSOCIATED ACCESSORIES BACK TO MAIN /INDICATED POINT. PREP FOR CONNECTION TO NEW.
4 DISCONNECT AND REMOVE EXISTING AIR TERMINAL UNIT AND ALL ASSOCIATED DUCTWORK AND CONTROLS.
5 DISCONNECT AND REMOVE DUCTWORK AS REQUIRED TO INSTALL NEW AIR VALVE.
6 DISCONNECT AND REMOVE EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCTWORK. REMOVE DUCTWORK BACK TO THE MAIN AND CAP AND SEAL AIR TIGHT.
7 DISCONNECT AND REMOVE DUCTWORK BACK TO FUME HOOD CONNECTION.
8 DISCONNECT AND REMOVE EXISTING FIRE DAMPER. CORRIDOR WALL IS NO LONGER RATED CONSTRUCTION.
9 DISCONNECT AND REMOVE EXISTING FIRE DAMPER. FUME HOOD EXHAUST DUCTWORK SHALL NOT INCLUDE FIRE DAMPERS PER CURRENT CODE.
1 10 DECOMMISSION AND TAG FIRE DAMPER OUT OF SERVICE. REMOVE FUSIBLE LINK AND EXISTING SHUTTER.

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ME PROJECT #: 250032

STATE OF NEW YORK · GARRETT DANIEL DORAS · 094525 · LICENSED PROFESSIONAL ENGINEER

Drawn By: ZMH
Checked By: NMT
Project Manager: GDD

Revisions

1	12/12/2025	Addendum #1

COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
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PARTIAL FIFTH FLOOR DEMOLITION PLAN - DUCTWORK

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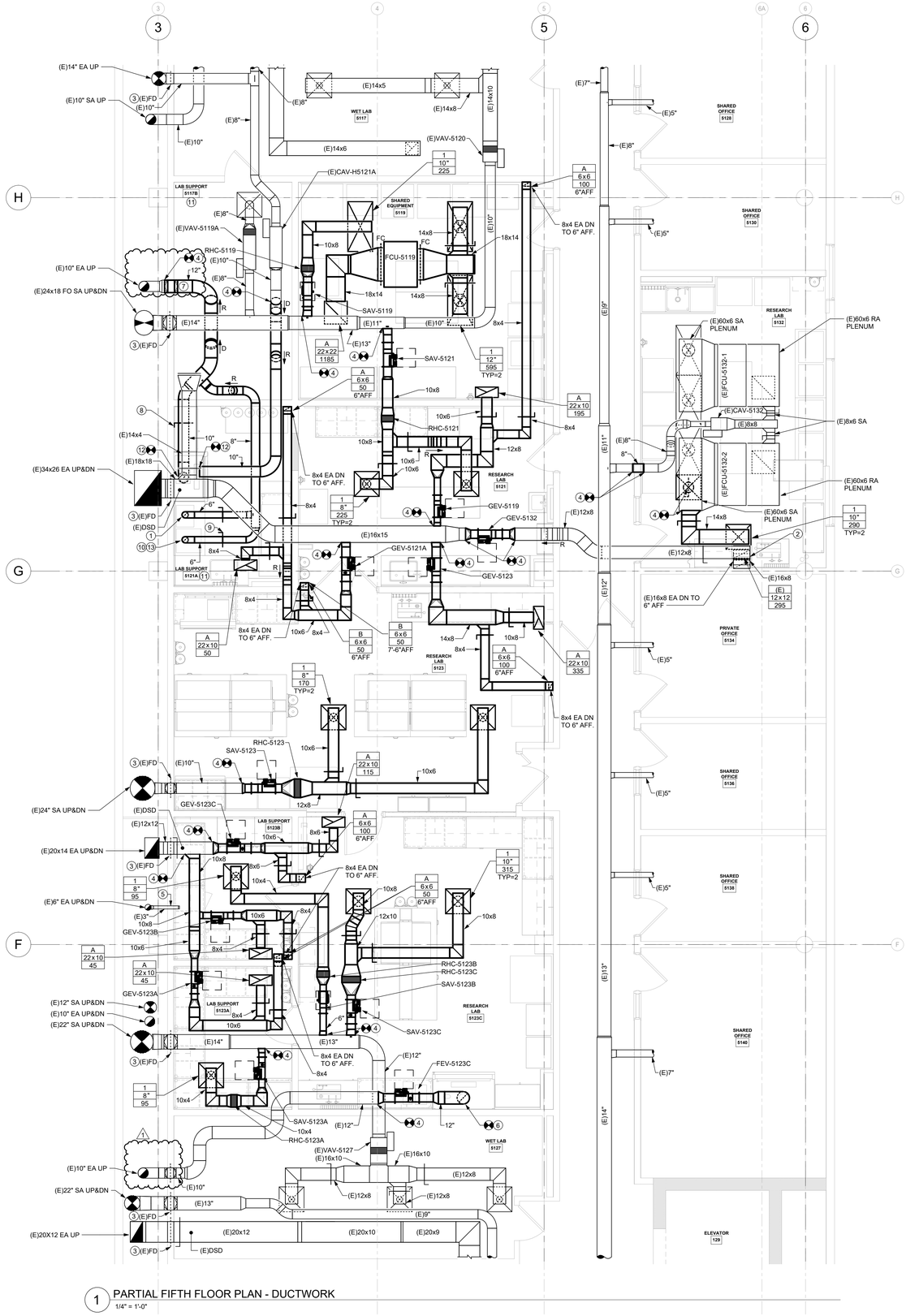

1 PARTIAL FIFTH FLOOR PLAN - DUCTWORK
1/4" = 1'-0"

GENERAL NOTES:

A. UNLESS INDICATED OTHERWISE, THE DUCTWORK AT THE VAV AND AIR VALVE INLET AND OUTLET SHALL MATCH THE SIZES SHOWN ON THE EQUIPMENT SCHEDULE.

Ⓧ DRAWING NOTES:

1 PROVIDE CEILING MOUNTED SNORKEL, BALANCE TO 100 CFM. REFER TO DETAILS FOR FURTHER REQUIREMENTS.
2 PROVIDE ALL MODIFICATIONS TO EXTEND THE LOW EXHAUST GRILLE TO ACCOMMODATE THE NEW CHASE ENCLOSURE.
3 EXISTING FIRE / SMOKE DAMPER SHALL BE TESTED AND CERTIFIED. REFER TO FIRE / SMOKE DAMPER SPECIFICATION FOR FURTHER REQUIREMENTS.
4 TIE DUCTWORK INTO EXISTING. TRANSITION AS REQUIRED TO MAKE THE CONNECTION.
5 PROVIDE FIRE WRAP ON THE EXPOSED DUCTWORK TO PROVIDE A CONTINUOUS RATING OF THE 2-HR SHAFT ENCLOSURE.
6 TIE DUCTWORK INTO ADJUSTABLE HEIGHT ADA FUME HOOD. REFER TO DETAILS FOR CONNECTION REQUIREMENTS.
7 PROVIDE AN ACCESS DOOR FOR THE EXISTING FIRE DAMPER.
8 BALANCE FUME HOOD TO 485 CFM.
9 BALANCE EXHAUST HOOD TO 100 CFM.
10 PROVIDE EXHAUST HOOD FOR OWNER PROVIDED LAB EQUIPMENT. REFER TO EXHAUST HOOD INSTALLATION DETAIL FOR FURTHER REQUIREMENTS.
11 ALL NEW EXHAUST DUCTWORK WITHIN LAB 5121A AND 5117B SHALL BE WELDED 304 STAINLESS STEEL, UNLESS NOTED OTHERWISE.
12 TIE DUCTWORK INTO EXISTING FIXED HEIGHT FUME HOOD.
13 INSULATE THE EXHAUST DUCTWORK FROM THE CEILING PENETRATION TO THE 5121A WALL PENETRATION.

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GARRETT DANIEL DORKAS
094525
LICENSED PROFESSIONAL ENGINEER

Drawn By: ZMH
Checked By: NMT
Project Manager: GDD

Revisions

1	12/12/2025	Addendum #1

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PARTIAL FIFTH FLOOR PLAN - DUCTWORK

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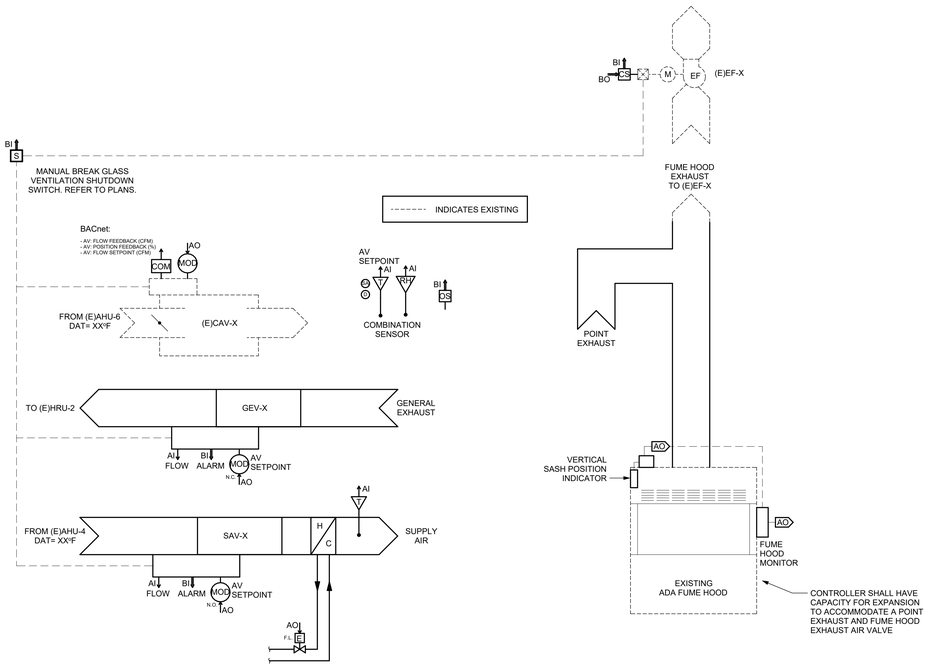

POINT SCHEDULE

CONTROL POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOWN ON GRAPHIC	NOTES
									ALARM			
	BI	BO	AI	AO	AV	BV	SCH	TREND	BACS	EMCS	DESCRIPTION	
STEAM LOAD SHED						X(6)						BINARY NETWORK INPUT FROM EMCS
CHILLED WATER LOAD SHED						X(4)						BINARY NETWORK INPUT FROM EMCS
TOTAL EXHAUST AIRFLOW (CFM)					X			X				X	
TOTAL EXHAUST SETPOINT (CFM)					X			X				X	
LABORATORY AIR CHANGE RATE (ACH)					X			X				X	
FLOW OFFSET SETPOINT (CFM)					X							X	
FLOW OFFSET ACTUAL (CFM)					X							X	
SUPPLY VAV DAMPER POSITION COMMAND				X				X				X	
SUPPLY VAV AIRFLOW FEEDBACK (CFM)					X			X	X		10% FLOW DEVIATION FROM SETPOINT	X	BACnet/IP NETWORK POINT
SUPPLY VAV AIRFLOW SETPOINT (CFM)					X			X				X	BACnet/IP NETWORK POINT
SUPPLY VAV POSITION FEEDBACK (%)					X			X	X		VALVE COMMAND ≠ FEEDBACK	X	BACnet/IP NETWORK POINT
SUPPLY AIR VALVE FLOW FEEDBACK (CFM)			X					X				X	
SUPPLY VALVE ALARM	X								X		FAILURE	X	
SUPPLY AIR VALVE POSITION COMMAND / SETPOINT (CFM)				X	X			X	X		10% FLOW DEVIATION FROM SETPOINT	X	
REHEAT COIL LEAVING AIR TEMPERATURE / SETPOINT (°F)			X		X			X				X	
REHEAT COIL VALVE COMMAND (%)				X				X	X		5°F Δ ACROSS COIL WITH VALVE COMMANDED CLOSED	X	
GENERAL EXHAUST AIR VALVE FLOW FEEDBACK (CFM)			X					X				X	
GENERAL EXHAUST AIR VALVE ALARM	X								X		FAILURE	X	
GENERAL EXHAUST AIR VALVE POSITION COMMAND / SETPOINT (CFM)				X	X			X	X		10% FLOW DEVIATION FROM SETPOINT	X	
EXHAUST FAN MOTOR STATUS (ON/OFF)	X							X	X	X	FAILURE	X	
EXHAUST FAN MOTOR START/STOP		X						X				X	
FUME HOOD SASH POSITION			X					X	X		SASH OPEN (18") FOR 24 CONTINUOUS HOURS OR MORE	X	
SPACE TEMPERATURE / SETPOINT (°F)			X		><			X	X		± 4°F FROM SETPOINT	X	
SPACE RELATIVE HUMIDITY (%RH)			X					X				X	MONITORING ONLY
SPACE OCCUPANCY	X						X	X				X	

1

LAB AIRFLOW SCHEDULE

ROOM NUMBER	DESCRIPTION (NOTE 1)	ROOM DIMENSIONS		CODE MINIMUM VENTILATION				EXHAUST AIR							SUPPLY AIR						XFER
		AREA	HEIGHT	NYS OUTDOOR AIRFLOW		NYS EXHAUST AIRFLOW		EXHAUST POINT (NOTE 2)	VALVE SIZE	VALVE RANGE		OCCUPIED		UNOCCUPIED		SUPPLY POINT (NOTE 2)	VALVE SIZE	VALVE RANGE		OCC	UNOCC	ALL MODES
										MAX	MIN	100 FPM		100 FPM				MAX	MIN	100 FPM		
		(SF)	(FT)	(CFM)	(ACH)	(CFM)	(ACH)			(CFM)	(CFM)	(CFM)	(ACH)	(CFM)	(ACH)			(CFM)	(CFM)	(CFM)	(CFM)	(CFM)
5121/5121A	VAV	429	8.0	207	3.6	429	7.5	(E)F-26	-	-	-	685		685		(E)CAV-H5121A	-	-	-	340	340	
								GEV-5121A	8	800	80	200	15.5	200	15.5	SAV-5121	8	800	80	445	445	-100
								TOTAL				885		885		TOTAL				785	785	

NOTES
1. THIS REPRESENTS A LABORATORY WHERE THE REQUIREMENTS OF THE FUME HOODS EXCEEDS THE MINIMUM REQUIRED AIR CHANGE RATES ESTABLISHED FOR THE LABORATORY.
2. THE MAX / MIN POSITIONS ON THE VALVE WILL BE SET AT THE FACTORY TO THE FULL FANGE WITH ACTUAL AIRFLOW SET IN SOFTWARE.

1 LAB 5121A CONTROL SCHEMATIC AND SYSTEM SUMMARY
NOT TO SCALE

SEQUENCE OF OPERATION

SYSTEM DESCRIPTION

FUME HOOD EXHAUST AIR VALVE (FEV)
GENERAL EXHAUST AIR VALVE (GEV)
SUPPLY AIR VALVE (SAV)
DUCT MOUNTED REHEAT COIL (RHC)

GENERAL

SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

THE BACS SHALL BE CAPABLE OF RETAINING ITS PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST TEN HOURS.

ALL SETPOINTS SHALL BE ADJUSTABLE.

THE BACS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK.

LABORATORY AIR CHANGE RATE ARE BASED ON TOTAL SUPPLY AIRFLOW FROM THE SPACE.

THE SPACE SHALL BE CONTROLLED TO AN AIR CHANGE RATE. THE BACS SHALL CALCULATE THE REQUIRED CFM USING THE ROOM GROSS VOLUME (AREA x CEILING HEIGHT).

LOAD SHED: REFER TO LOAD SHED MATRICES FOR THE SYSTEM CONTROL REQUIREMENTS FOR RESEARCH SPACES.

SETPOINTS

SPACE COOLING TEMPERATURE SETPOINTS:

OCCUPIED:	75°F ± 1.5°F
UNOCCUPIED SETBACK:	75°F + 3.0°F
UNOCCUPIED:	75°F + 6.0°F

SPACE HEATING TEMPERATURE SETPOINTS:

OCCUPIED:	70°F ± 1.5°F
UNOCCUPIED SETBACK:	70°F - 3.0°F
UNOCCUPIED:	70°F - 6.0°F

MINIMUM LABORATORY OCCUPANCY INDEX TIME: 30 MINUTES

ZONE OCCUPANCY SCHEDULE: 6 AM TO 6 PM, MON-FRI

TOTAL EXHAUST AIR CHANGE RATE (ACPH):
REFER TO LAB AIRFLOW SCHEDULES
ACPH = TOTAL EXHAUST CFM X 60 / ROOM VOLUME

TOTAL EXHAUST AIRFLOW RATE (CFM):
GENERAL EXHAUST AIRFLOW RATE + EXHAUST FAN AIRFLOW RATE

SUPPLY AIRFLOW RATE (CFM):
REFER TO LAB AIRFLOW SCHEDULE
TOTAL EXHAUST AIRFLOW RATE + OFFSET

FUME HOOD EXHAUST AIRFLOW RATE (CFM):
REFER TO LAB AIRFLOW SCHEDULE

GENERAL EXHAUST AIRFLOW RATE (CFM):
REFER TO LAB AIRFLOW SCHEDULE

SPACE AIR DIFFERENTIAL OFFSET (CFM):
REFER TO LAB AIRFLOW SCHEDULE

LABORATORY AIRFLOW CONTROL

AIR VALVE POSITIONS SHALL BE BASED ON MODE. UNDER NORMAL CONTROL, ROOM OCCUPANCY SHALL BE DETERMINED VIA ROOM OCCUPANCY SENSORS.

WHEN THE ROOM IS OCCUPIED, THE BACS SHALL SEND AN OCCUPIED COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE BETWEEN MINIMUM AND MAXIMUM POSITIONS AS NEEDED TO MAINTAIN THE OCCUPIED FACE VELOCITY SETPOINT BASED ON THE SASH POSITION. THE POINT EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE SETPOINT. THE SUPPLY AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

WHEN THE ROOM IS UNOCCUPIED, AND THE SASH IS AT OR BELOW 18-INCHES, THE BACS SHALL SEND AN UNOCCUPIED COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE BETWEEN MINIMUM AND MAXIMUM POSITIONS AS NEEDED TO MAINTAIN THE SETPOINT BASED ON THE SASH POSITION. THE POINT EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE AIRFLOW SETPOINT. THE SUPPLY AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

WHEN THE ROOM IS UNOCCUPIED AND THE FUME HOOD SASH IS ABOVE 18-INCHES, THE BACS SHALL NOT SEND THE SPACE UNOCCUPIED COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE TO CLOSE. THE POINT EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN AIRFLOW SETPOINT. THE SUPPLY AIR VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

VACANT MODE: THE BACS SHALL SEND A DECOMMISSION COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE TO CLOSE. THE POINT EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN AIRFLOW SETPOINT. THE SUPPLY AIR VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

REGARDLESS OF THE OCCUPANCY MODE, ALL THE SUPPLY AND EXHAUST AIR VALVES SHALL COMMAND CLOSED UPON ACTIVATION OF THE MANUAL VENTILATION SHUTDOWN SWITCH.

ZONE TEMPERATURE CONTROL

TEMPERATURE SETPOINTS SHALL BE DETERMINED BASED ON A COMBINATION OF PROGRAMMED SCHEDULE AND SPACE OCCUPANCY SENSORS.

OCCUPIED HEATING: IF THE SPACE IS OCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD AND THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING TEMPERATURE SETPOINT, THE REHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE IS AT SETPOINT, THE REHEAT COIL CONTROL VALVES SHALL BE CLOSED.

OCCUPIED COOLING: IF THE SPACE IS OCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD AND THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING TEMPERATURE SETPOINT, THE REHEAT COIL CONTROL VALVE SHALL CLOSE.

OCCUPIED SETBACK: IF THE SPACE BECOMES UNOCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD, THE ABOVE OCCUPIED HEATING/COOLING SEQUENCE SHALL APPLY, BUT THE SPACE SHALL BE MAINTAINED AT THE OCCUPIED SETBACK TEMPERATURE SETPOINT.

UNOCCUPIED HEATING: IF THE SPACE IS UNOCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD AND THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING TEMPERATURE SETPOINT, THE ABOVE OCCUPIED HEATING SEQUENCE SHALL APPLY, BUT THE SPACE SHALL BE MAINTAINED AT THE UNOCCUPIED HEATING TEMPERATURE SETPOINT.

UNOCCUPIED COOLING: IF THE SPACE IS UNOCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD AND THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING TEMPERATURE SETPOINT, THE ABOVE OCCUPIED SETBACK SEQUENCE SHALL APPLY, BUT THE SPACE SHALL BE MAINTAINED AT THE UNOCCUPIED COOLING TEMPERATURE SETPOINT AND THE REHEAT COIL CONTROL VALVE SHALL CLOSE.

IF THE ZONE BECOMES OCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD, THE OCCUPIED HEATING/COOLING SEQUENCES SHALL APPLY FOR THE DURATION OF OCCUPANCY. THE ZONE SHALL BE MAINTAINED AT THE OCCUPIED TEMPERATURE SETPOINTS. WHEN THE ZONES BECOMES UNOCCUPIED AGAIN DURING THE SCHEDULED UNOCCUPIED PERIOD, THE ZONE SHALL INDEX BACK TO UNOCCUPIED MODE

VACANT MODE: THE ABOVE UNOCCUPIED HEATING/COOLING SEQUENCE SHALL APPLY, BUT THE SPACE SHALL BE MAINTAINED AT THE UNOCCUPIED SETBACK TEMPERATURE SETPOINT.

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Drawn By:	NMT
Checked By:	NMT
Project Manager:	GDD

Revisions

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Cornell University
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M-402R

CONTROL SCHEMATIC AND SYSTEM SUMMARIES

11/7/2025
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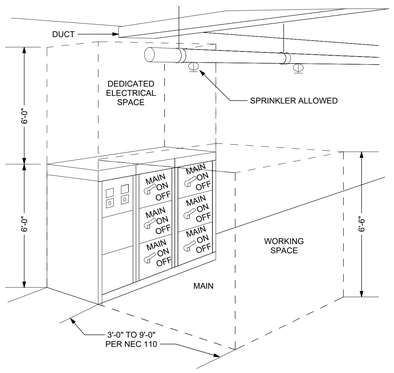
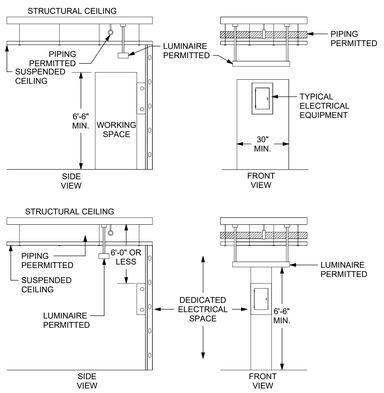




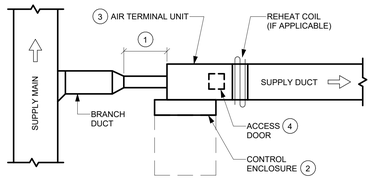
DETAIL NOTES:

A. ELECTRICAL EQUIPMENT INCLUDES PANELS, TRANSFORMERS, DISCONNECTS, STARTERS, MOTOR CONTROL CENTERS, SWITCHGEAR, ADJUSTABLE SPEED DRIVES, AND FUSED SWITCHES (THIS ALSO APPLIES TO ELECTRICAL GEAR MOUNTED DIRECTLY ON MECHANICAL EQUIPMENT).

B. DEDICATED ELECTRICAL SPACE IS DEFINED BY NEC 110.

C. NO PIPING OR DUCTWORK MAY BE INSTALLED IN DEDICATED ELECTRICAL SPACE OR WORKING SPACE.

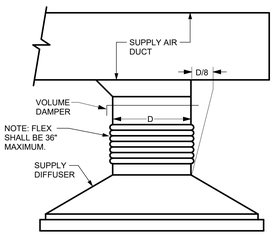
1 PIPING OVER ELECTRICAL EQUIPMENT DETAILL
NOT TO SCALE



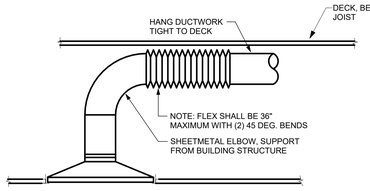
KEYED NOTES:

1. RIGID STRAIGHT DUCTWORK UPSTREAM OF THE TERMINAL UNIT SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET. NOT TO EXCEED 5'-0" TOTAL IN LENGTH.
2. MAINTAIN MINIMUM 1'-6" SERVICE CLEARANCE IN FRONT OF ENCLOSURE TO ALLOW FOR SERVICE/ACCESS.
3. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION VAPOR BARRIER AS SPECIFIED.
4. ACCESS DOOR TO BE LOCATED AT THE BOTTOM OF THE UNIT. CONTRACTOR TO COORDINATE COIL AND CONTROL ENCLOSURE HANDING. ROTATING UNIT IN FIELD SUCH THAT ACCESS DOOR IS ON TOP OF UNIT IS NOT ACCEPTABLE.

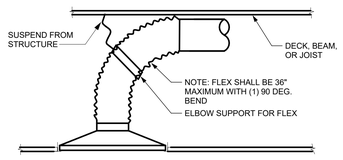
3 VAV BOX DETAIL
NOT TO SCALE



SUPPLY AIR DIFFUSER DETAIL - VERTICAL FLEXIBLE DUCT



SUPPLY AIR DIFFUSER DETAIL - RADIUS FLEXIBLE DUCT - STRAP



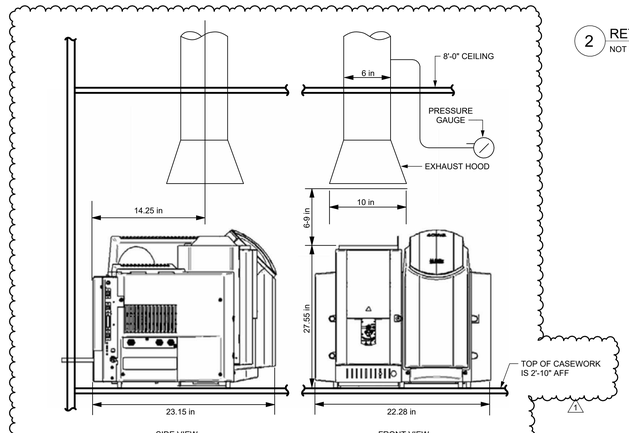
SUPPLY AIR DIFFUSER DETAIL - HORIZONTAL FLEXIBLE DUCT

DETAIL NOTES:

A. DUCT AND DIFFUSER SIZE AND TYPE AS SHOWN ON DRAWINGS.

B. VOLUME DAMPER SHALL BE MINIMUM OF 4'-0" FROM DIFFUSER.

7 SUPPLY AIR DIFFUSER DETAIL
NOT TO SCALE



DETAIL NOTES:

A. THE EXHAUST HOOD MUST HAVE A 6 INCH TO 9 INCH AIR GAP BETWEEN THE CHIMNEY AND BOTTOM OF HOOD. DIMENSIONS INCLUDED ARE BASED ON MANUFACTURER'S DATA SHEETS. EXACT UNIT DIMENSIONS AND INSTALL LOCATION SHALL BE CONFIRMED PRIOR TO INSTALL.

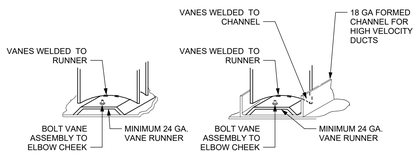
B. EXHAUST HOOD SHALL BE #3 POLISHED, 304 STAINLESS STEEL WITH FLANGE CONNECTION.

C. ALL DUCTWORK EXPOSED WITHIN THE SPACE SHALL BE #3 POLISHED, 304 STAINLESS STEEL WITH FLANGE CONNECTIONS. ALL DUCTWORK ABOVE THE CEILING SHALL 304 STAINLESS STEEL, WELDED CONNECTIONS.

D. PROVIDE DWYER 2001-ASF-AHU2 MAGNHELIC DIFFERENTIAL PRESSURE GAUGE WITH ADJUSTABLE SCALE FLAG AND SURFACE MOUNTING PLATE, STATIC PRESSURE TIPS AND PVC TUBING. PROVIDE SPARE 2001-AF AND TURN OVER TO OWNER.

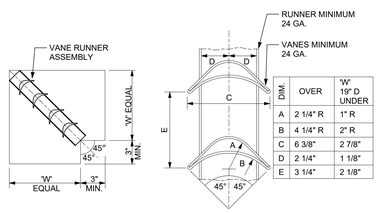
E. WALL MOUNT THE PRESSURE GAUGE AT EYE LEVEL WHERE IT WILL NOT IMPACT EQUIPMENT OPERATION. THE SIGNAL FLAG SHALL BE SET AFTER TESTING AND BALANCING TO THE MINIMUM PRESSURE REQUIRED TO PROVIDED THE SPECIFIED 100 CFM. THE GAUGE SHALL PROVIDE DIFFERENTIAL PRESSURE BETWEEN AMBIENT CONDITIONS AND THE EXHAUST DUCT. THE MEASURE PORT SHALL BE INSTALLED A MINIMUM OF 48 INCHES FROM THE BOTTOM OF THE HOOD.

4 EXHAUST HOOD INSTALLATION DETAIL
NOT TO SCALE



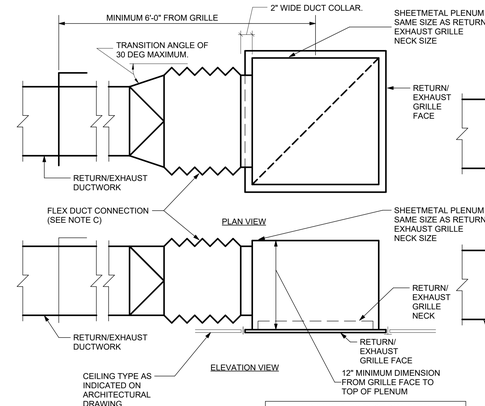
VANE RUNNER ASSEMBLY UP TO 2000 FPM

VANE RUNNER ASSEMBLY OVER 2000 FPM



DIM.	OVER	"W" 19" D UNDER
A	2 1/4" R	1" R
B	4 1/4" R	2" R
C	6 3/8"	2 7/8"
D	2 1/4"	1 1/8"
E	3 1/4"	2 1/8"

8 VANED ELBOW DETAIL
NOT TO SCALE



DETAIL NOTES:

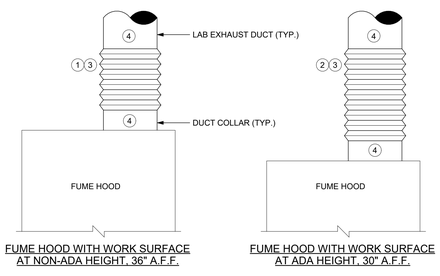
A. PAINT INSIDE OF PLENUM BOX FLAT BLACK IF INTERNAL SOUND LINING IS NOT SPECIFIED.

B. ALSO APPLICABLE TO REGISTERS.

C. OMIT FLEX CONNECTION AND PROVIDE HARD CONNECTION TO GRILLES WHERE DUCTWORK IS EXPOSED OR WHERE DUCTWORK/GRILLE CONNECTION IS LOCATED ABOVE HARD CEILINGS. DO NOT PROVIDE FLEXIBLE DUCTWORK ABOVE HARD CEILINGS.

MINIMUM FLEX DUCT DIAMETER	
FLOW RANGE (CFM)	SIZE(IN.)
0-110	6"
111-230	8"
231-410	10"
411-675	12"
676-1000	14"
1001-1400	16"
1401-1950	18"
1951-2500	20"

2 RETURN/EXHAUST GRILLE PLENUM DETAIL - DUCTED
NOT TO SCALE



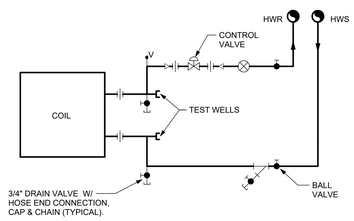
FUME HOOD WITH WORK SURFACE AT NON-ADA HEIGHT, 36" A.F.F.

FUME HOOD WITH WORK SURFACE AT ADA HEIGHT, 30" A.F.F.

KEYED NOTES:

1. ROUND FLEXIBLE EXHAUST DUCT CONNECTION, SHOWING FULLY COMPRESSED TO ACCOMMODATE 36" WORK SURFACE HEIGHT.
2. ROUND FLEXIBLE EXHAUST DUCT CONNECTION, SHOWING FULLY EXTENDED TO ACCOMMODATE 30" WORK SURFACE HEIGHT.
3. PROVIDE FLEXIBLE PVC EXHAUST HOSE PER SPECIFICATION 233100 - SHEET METAL AND DUCTWORK ACCESSORIES CONSTRUCTION. SIZE SHALL MATCH FUME HOOD CONNECTION.
4. QUICK RELEASE CLAMP AT CONNECTION TO FUME HOOD AND DUCTWORK.

5 ADA FUME HOOD INSTALLATION DETAIL
NOT TO SCALE



DETAIL NOTES:

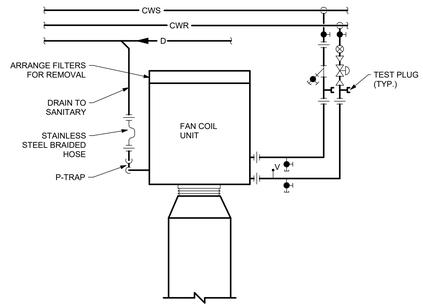
A. ARRANGE PIPING FOR REMOVAL OF COIL WITHOUT DISTURBING PIPING AHEAD OF UNIONS.

B. PROVIDE DUCT ACCESS DOOR UPSTREAM OF COIL.

C. PIPE COIL FOR COUNTERFLOW ARRANGEMENT IF COIL IS MORE THEN ONE ROW. HOT WATER SUPPLY CONNECTION SHALL BE ON THE DISCHARGE AIR SIDE OF THE COIL.

D. THE FOLLOWING ARE NOT ALLOWED: DIELECTRIC UNIONS, AUTOMATIC FLOW CONTROL VALVES, COMBINATION DEVICES OR PRE PIPED COIL FIT OUT KITS.

9 TERMINAL REHEAT COIL PIPING DETAIL - HOT WATER
NOT TO SCALE



DETAIL NOTES:

A. HANG UNIT FROM STRUCTURE AS HIGH AS POSSIBLE WITH STEEL ROD AND VIBRATION ISOLATORS.

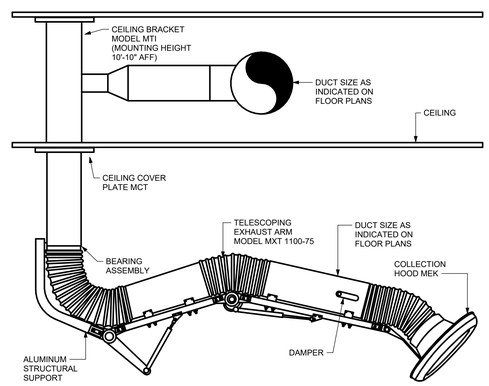
B. UNIT SHALL BE ACCESSIBLE FROM BELOW. MECHANICAL AND ELECTRICAL WORK SHALL NOT BE LOCATED BELOW UNIT. ARRANGEMENT SHALL PERMIT REMOVAL OF FAN COIL UNIT FOR MAJOR SERVICING.

C. CONTROL PANEL SHALL BE ACCESSIBLE FOR SERVICING.

D. DRAIN PIPING BY PLUMBING CONTRACTOR.

E. THE FOLLOWING ARE NOT ALLOWED: DIELECTRIC UNIONS, AUTOMATIC CONTROL VALVES, COMBINATION DEVICES OR PRE-PIPED COIL FIT OUT KITS.

6 CEILING MOUNTED FAN COIL UNIT DETAIL - TWO PIPE
NOT TO SCALE



DETAIL NOTES:

A. BASIS OF DESIGN: MOVEX ME 75.

B. ACCEPTABLE MAKES: MOVEX OR EQUAL.

C. PERFORMANCE:
1. MAXIMUM WORKING RADIUS: 39 IN.
2. CEILING: 108 IN.

10 CEILING MOUNTED EXHAUST ARM DETAIL
NOT TO SCALE

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Drawn By:	ZMH
Checked By:	NMT
Project Manager:	GDD

Revisions

1	12/12/2025	Addendum #1

COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATIONS
129 Garden Ave,
Ithaca, NY 14853
SWBR Project Number 25044.00

Cornell University
Ithaca, NY 14853

M-500R
DETAILS - HVAC

11/7/2025
100% Construction Documents

COMSTOCK HALL 5TH FLOOR LAB AND SUPPORT SPACE RENOVATION **December 15, 2025**

RFI Form

RFI/ Response Index	Page/ Dwg./Spec./Rep. Number	Section/ Paragraph/Topic	RFI	Design Team Response
1			Due to holidays and man power issues. Asking for 1 week bid extension.	See Addendum No. 1, Item 1. Final RFIs date and Bid date have been extended.
2	AD-101		Outside of room 5123B on Drawing AD-101, there is a section of the wall that is hatched for removal. There is nothing noted on the drawing for removal. There is nothing shown/noted on the new plan for this location, and the elevation drawing states that the electrical panel here is existing to remain. Please advise if there is any work to be done here.	See Addendum No. 1, Item 7. Existing electric panel to remain. No work to be done here.
3	AD-101		Drawing note 22 does not appear to show on the doorway of room 5119, but drawing note 23 appears in the corridor past this doorway. Please advise if this door also needs the Remedi8 label.	See Addendum No. 1, Item 7. Keynote 22 added to existing door of Room 5119
4			What prep is required of the existing epoxy floor for the new resinous floor?	Manufacturer rep recommended sounding out existing floor to identify and remove unbonded areas. Pre-flash low areas with epoxy mortar. Mechanically prepare entire floor surface via sanding or dustless grinding process. Primer is required if not a Stonhard product.
5			Is the job ready to begin as soon as the contract is in place?	Yes, On-site mobilization is anticipated to begin at the end of January / beginning of February, 2026.
6			Is there a place to put a dumpster?	The dumpster can be located at the Comstock Hall loading dock, access by the service drive from Campus Road.