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California 94401
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ADDENDUM 01

TO	All Plan Holders	ISSUE DATE	20 November 2022
		PROJECT #	17-006.12

REGARDING **Reroof & Mechanical, Exterior Painting, Window Replacement at Mission Hill Middle School** **NARRATIVE PAGES**

DISTRICT Santa Cruz City Schools District **SPECIFICATION PAGES**
DRAWING SHEETS
TOTAL PAGES

The information contained herein is issued as an Addendum to the Bid Documents for the Project listed above. All information included herein shall become a part of the Bid Documents for that Project.

All bidders are required to acknowledge this Addendum on their Proposal Documents.

Failure to acknowledge receipt of this Addendum shall deem the Proposal unresponsive and the proposal shall be disqualified.

ITEM	REFERENCE	DESCRIPTION OF CHANGE
		<i>All revised sheets and specification sections will be issued in conform set pending DSA approval of addendum</i>

Project Scope Clarification

This project consists of the following scope

- Gymnasium Roofing Project: DSA 01-118048 (BA 17-006.9) with revisions approved by DSA on 05/27/20
- HVAC equipment replacement, and related roofing at Gym remains in this project.

The following revisions are approved with **DSA revision 05/27/20 to 01-118048**

- Previously completed roofing at Gymnasium removed from scope.
- Removal and replacement of existing exterior Windows: Approved as revision to DSA 01-118048
- Painting of Exterior of Main Building, Existing front 'trellis'/waiting shelter, and Gymnasium

With this addendum the following revisions are included. **To be submitted for DSA Approval**

- Removal of miscellaneous built-in cabinetry at Science Classrooms
- Interior surface improvements at Auditorium

Project Documents Update | Clarification

- Drawing set has been re-posted. Utilize these drawings labeled: **Envelope Improvements** as bid set.
- Project Manual has been re-posted. Utilize this project manual labeled: "Re-roof & Mechanical, Exterior Painting, Window Replacement" as the official Project Manual Bid Set
- DSA 103 Special Tests and Inspections Form has been posted

Project Manual Revisions

00 10 00	Notice To Contractors <ul style="list-style-type: none">• This is a SCCS (Santa Cruz City Schools) project: Delete reference to “CUHSD”• Delete all reference to Pre-Qualification of bidders. Refer instead to published bid advertisement and District website. Bidder Pre-qualification is via Quality Bidders.
00 50 00	Temporary Facilities <ul style="list-style-type: none">• Clarification: Contractor shall provide trailer, portable toilets, and fencing around staging area. Exact location to be coordinated prior to on site mobilization.
00 20 00	Proposal <p><i>Use the revised proposal form (to be issued in next addendum) for proposal submittal.</i></p> <p><i>The following Bid Alternates are requested</i></p> <ul style="list-style-type: none">• Alternate 01: Additional Windows as indicated• Alternate 02: Mechanical Equipment and related roofing/flashing at Gymnasium• Alternate 03: Removal of miscellaneous cabinetry at Science Classrooms• Alternate 04: Interior finishes at Auditorium <p>Roofing and Mechanical Scope at Gymnasium</p>
01	Remove from project scope <ul style="list-style-type: none">• Previously completed roofing at gymnasium is hereby deleted from scope• Clarification: Mechanical equipment on Gymnasium roof remains in scope• Roofing related to mechanical equipment placement remains in scope
02	A0.0 <p>Revise: the following in the “Project Scope”</p> <p>“Alternate 2: Reroofing at Gymnasium <i>related to mechanical equipment replacement, remove existing and install new</i> mechanical system at Gymnasium”</p> <p><i>Revised sheet to be issued in conform set after DSA Approval of addenda</i></p>
03	A2.0 <p>Delete</p> <p>All notes referencing roofing or roof details not related to mechanical equipment are hereby deleted.</p> <p><i>Revised sheet to be issued in conform set after DSA Approval of addenda</i></p>
04	A7.0 <p>Delete</p> <p>Details: 1,2,3,4,5,11,16 are hereby deleted. These details are related to gymnasium roofing previously completed</p> <p><i>Revised sheet to be issued in conform set after DSA Approval of addenda</i></p>
05	AD1-M2.1 <p>Add</p> <p>Mechanical Sheet M2.1 is hereby revised to indicate required mechanical controls.</p> <p><i>Revised sheet index to be issued in conform set after DSA Approval of addenda</i></p> <p>Roofing Scope at Area of New Egress</p>
D2.0	<ul style="list-style-type: none">• Remove and replace roof sheathing as necessary to install any new blocking / structure to be installed as required for new walkway.
01 64 00	Roofing materials to be purchased by district and provided to Contractor
00 70 00	Courtesy Clarification: Note Scope of work Summary / Milestone dates indicated in this section. Work on roof adjacent to existing Auditorium window s must be completed prior to installation of windows.

Science Classrooms Cabinetry Removal

07 AD 1-2.1 ***This scope is added as bid Alternate 03***

Remove peninsula and island cabinets in rooms 9,11,12,13 as indicated

- Remove peninsula and island cabinets as indicated
- Disconnect and safe off all electrical, plumbing, gas connections.
- Patch floor as necessary with plywood sheathing and New 12" x 12" VCT to match existing.
- Patch and paint wall to match adjacent surfaces.

Auditorium Interior Finishes

08 AD2-TBD ***This scope is added as bid Alternate 4: Addendum Drawing to Be issued with Next Addenda***

- Remove existing attached wall tiles on north and south walls.
- Provide clean surface for application of new tack panels
- Install 2x wood Stripping and Vinyl covered Tack panels to existing walls
- Completely remove existing paint, sand, patch, prep and re-paint existing wainscot
- Install miscellaneous painted wood trim as indicated
- Install motorized "Mecho shades" at existing windows. Conduit to be concealed behind tack panels
- Contractor to locate electrical circuits, connect to existing panel, provide and install controls.
- Refinish proscenium (front of stage) wood paneling/ doors. Sand and re-stain to match existing

Window Shades

- Detail 2 on AD1.0 is utilized to indicate electrical/mechanical window shade only. Refer to other details for sloped windows frames. All windows to be panning with sloped frame
- Revise Note 14 on AD-1.0 to read: "Install new motorized mechanical roller shades at seven (7) new windows at Auditorium Windows: (Window Label 3B). Include all required electrical components for fully functioning system. Include cost for all electrical wiring and circuits. Connect to existing available electrical panel. Provide Electroshade by Mecho Shade
 - ElectroShade by Mecho
 - IQ3-DC MechoNet
 - Select swatches for Mecho's Quick Ship Swatches

Windows

General

- *All window installation must be completed and spaces ready for occupancy by 02 August 2023*
- General Contractor is responsible for all removal and patching of all interior surfaces to match existing adjacent surfaces in all locations of all new / replacement windows.
- General Contractor and Window / Glazer installer shall field verify all existing window conditions and provide complete shop drawings within 14 days of notice to proceed or award of contract, whichever occurs first.
- All windows indicate on elevations are to be replace unless specifically identified to remain. Note 088.0 is only for specific windows identified. All other windows are to be replaced.
- Windows 5A, 5B, 6B are not in scope
- All Glazing to be 1" IGU SNX 62/27 Low E temp exterior lite, 1/2" air, 1/4" clear HS interior
- All wood shims/blocking/jambs/sills in contact with concrete shall be PTDF.
- Detail 15 A7.0 at head, patch existing exterior stucco and any other exterior materials to match existing adjacent conditions.
- At existing windows to be replaced, include in bid cost to repair, and replace existing wood trims at interiors shall be replaced with new, and painted to match existing adjacent conditions.
- At locations of blank spandrels/louvers where existing ducting and suspended ceiling exists, General Contractor shall remove and replace existing suspended ceiling as needed to install new windows. Reconnect all ducting to existing system.
- New Louver finish and blank panels to match finish of new windows
- Louvers to be Ruskin or approved equivalent. Include Insect Screens on all new louvers
- Contractor to identify supply and return louvers on submitted shop drawings. Verify in field.

A2.1

- Clarification: All roofing and any components necessary to be removed to install new roof and new walkway shall be removed to existing sheathing. Include all new tapered insulation to provide roof slopes as indicated.
- Revise Details on A2.1 referring to sheet A7.2 to refer to sheet A7.1

09 A 7.0

- Detail 18/A7.0 is hereby added indicating push up windows at Kitchen Pass Through. Refer to re-issued drawing set. This is not issued as a separate addenda sketch.

- AD1.0**
 - All new windows to be Dark Brown (Black) Anodized aluminum. Louvers and blank panels to match
 - For Muntins/Grids on windows. Provide at exterior and interior. Not required between glass
 - Final grid options to be finalized during review of shop drawings
- 08 51 13**
 - Revise all references to SFUSD to SCCSD (Santa Cruz City Schools)
 - 1.04.N Revise last sentence as follows: *"No uncontrolled water leakage shall be allowed at the greater of 2/3 of lab test pressure or 80 % of Design load. Minimum 9.6 lbs of pressure"*
 - 1.09: Revise 10 % to 5 % of spare hardware
 - 2.01B.d: Revise 1150 to 1150S as basis of design
 - 2.03.M: "Bathroom windows" shall have same glazing as other windows: Interior Lami Lite with /030 white interlayer.
 - Use Series 4410 for single hung windows

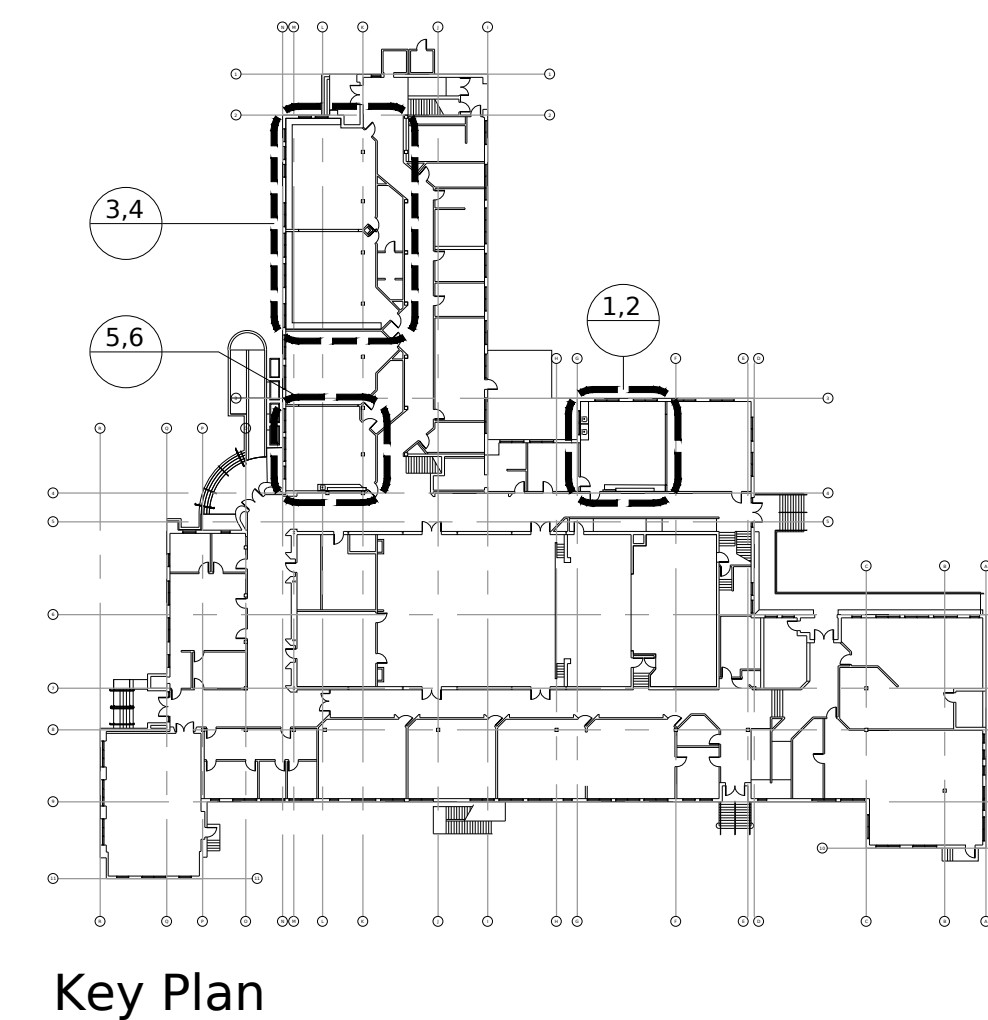
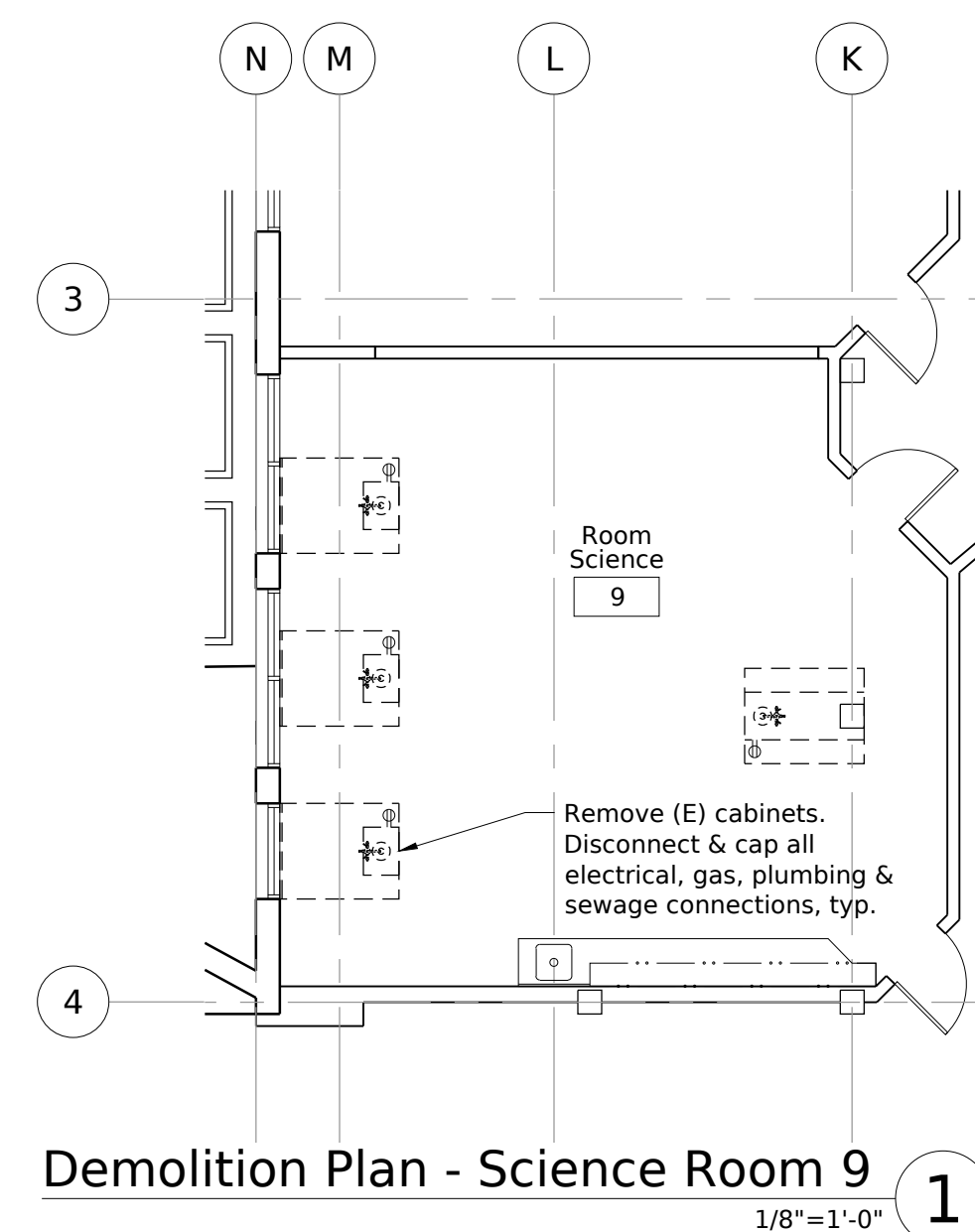
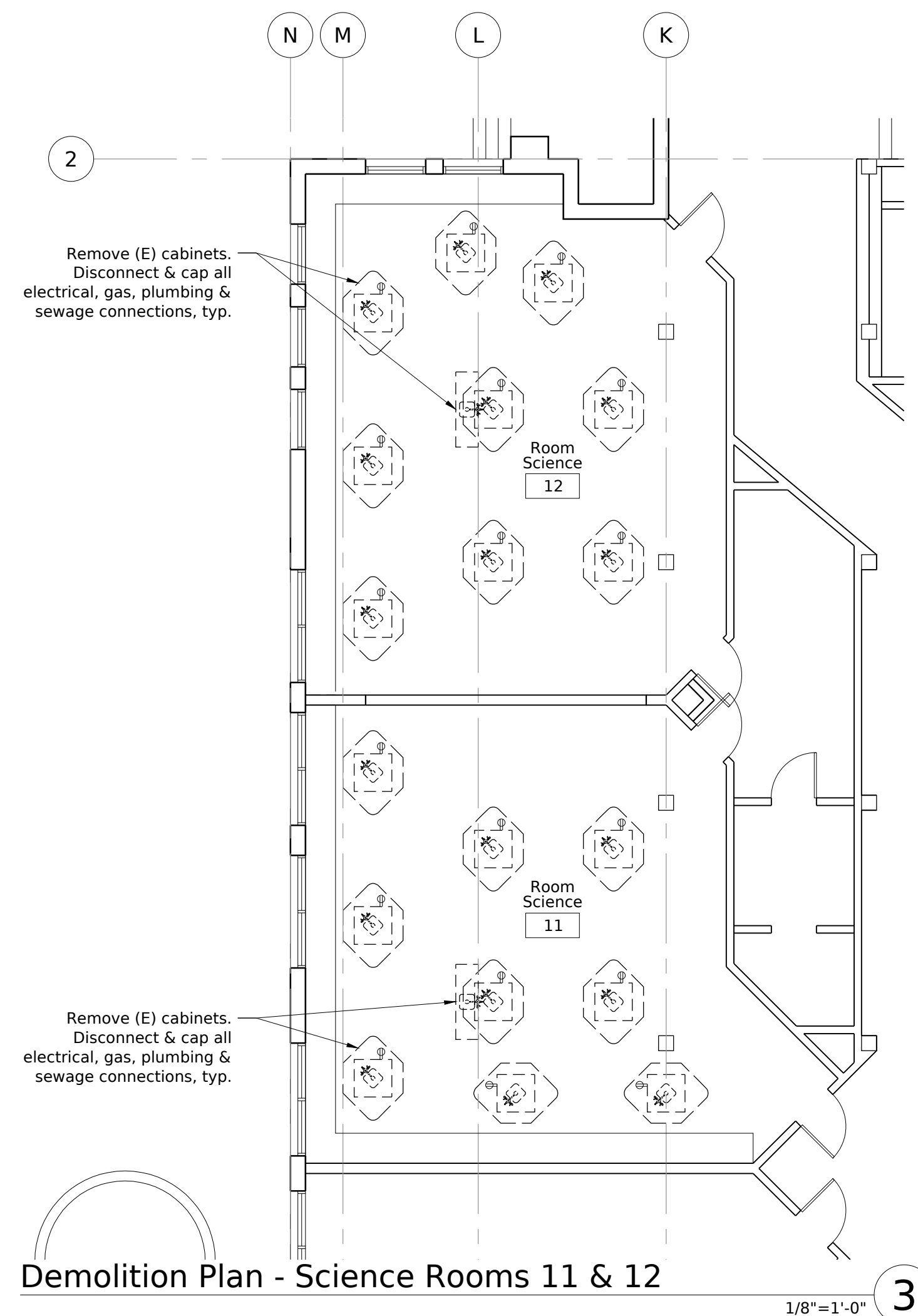
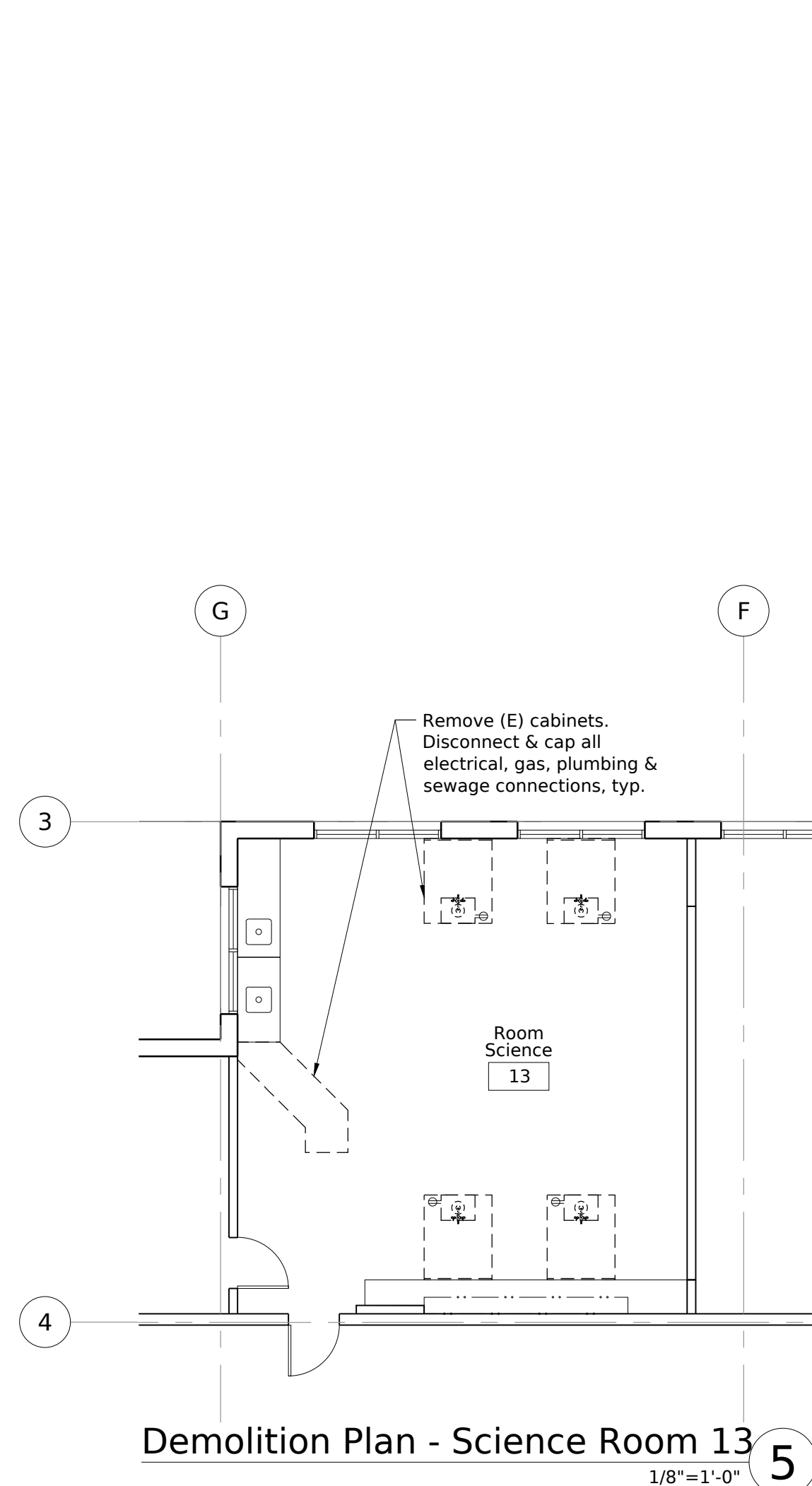
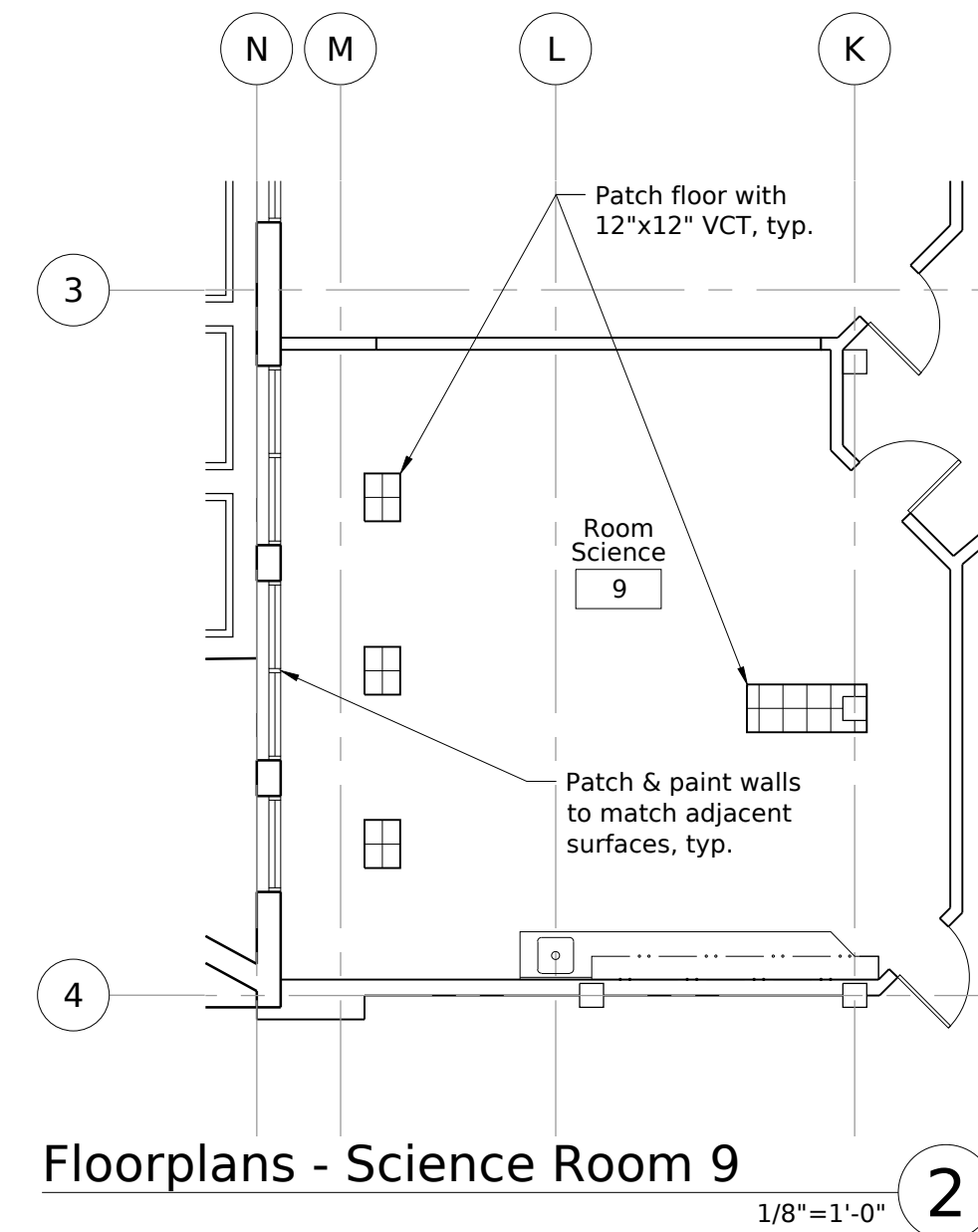
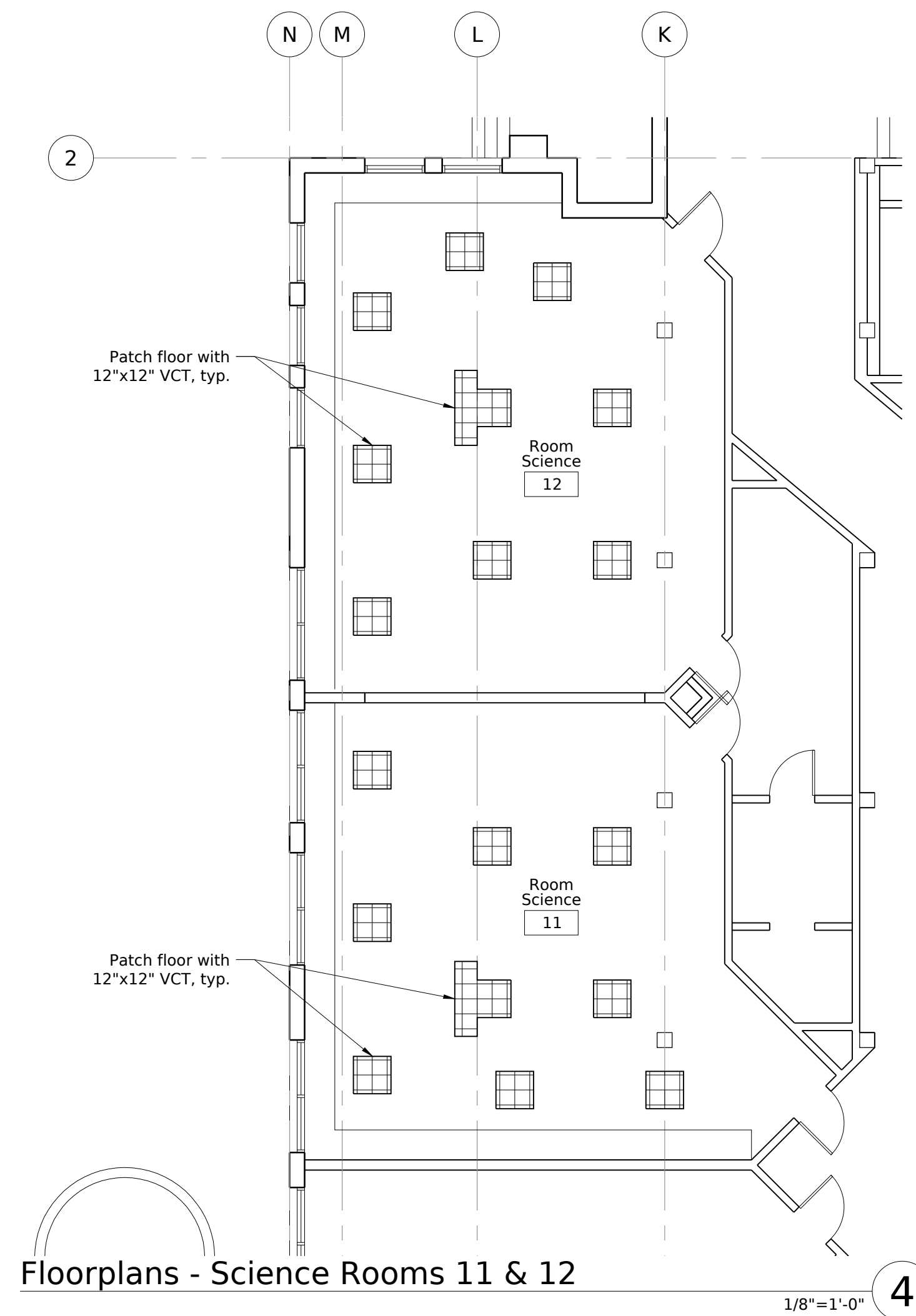
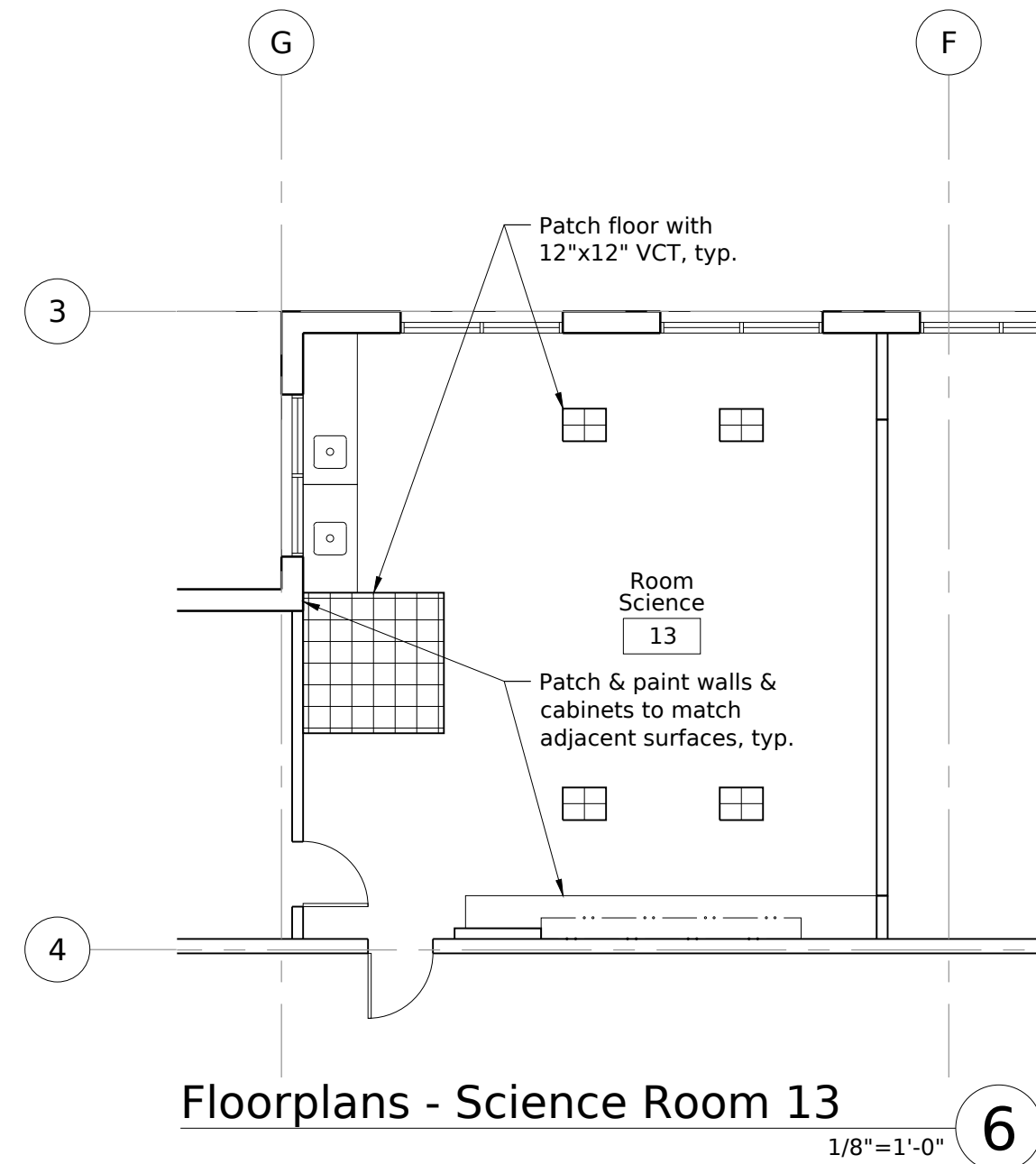
Painting Scope

AD1.0 Refer to attached Rendering which indicates design intent for exterior painting

Acknowledgement

PLEASE ENSURE THAT THIS ADDENDUM IS ACKNOWLEDGED ON YOUR BID

END OF ADDENDUM ITEMS
ISSUED BY Mojgan Aghamir
ma@bartosarchitecture.com



Sheet Notes

- 1 All dimensions given take precedence over scale. Contractor shall not scale drawing to determine dimensions without consulting the architect. Contractor shall review all dimensions for accuracy prior to construction. All written dimensions supersede scaled dimensions.
- 2 All surfaces shall receive new or renovated finish under this contract, unless specifically noted otherwise. Surfaces not specifically noted herein shall receive finishes of like surfaces in adjacent locations and shall be verified with the Architect prior to installation.
- 3 Dimensions given as "CLR" are to face of finish. All other dimensions are to face of stud/structure unless otherwise noted.
- 4 Contractor is fully responsible for coordinating all finish alignments.
- 5 Refer plans for all rough framing dimensions, opening sizes, etc. Refer details for all local dimensions.
- 6 Mounting heights shown are intended to comply with all applicable codes. Mounting heights are measured from finished assemblies. Contractor fully responsible to achieve these mounting heights.
- 7 All interior trims and casings shall match existing where applicable unless otherwise noted or scheduled. Contractor responsible to take accurate measurements of existing trims and replicate.
- 8 Interior gypsum board finish shall be smooth at all locations unless otherwise noted. Gypsum board occurring beneath applied finished shall meet requirements of finish manufacturer.
- 9 Contractor shall coordinate all rough electrical, opening jambs, and related trims to account for applied wall finish thickness.
- 10 Contractor shall include in bid all required cutting and patching of existing wall surfaces in order to accommodate any electrical installation, including, but not limited to, switches, receptacles, and conduits.
- 11 Refer Finish Schedule for heights of ceilings and wainscot, and additional requirements.
- 12 Refer to Specifications for description of each item and methods for installation and additional requirements.
- 13 Contractor is fully responsible for properly patching & safe-off everything.
- 14 Contractor is fully responsible for cleaning & waxing floors.

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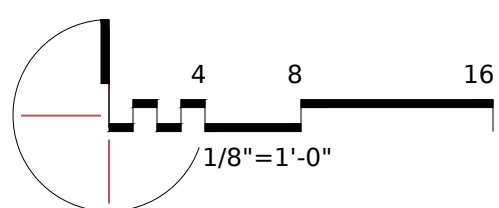
**Santa Cruz City
Schools**



Mission Hill
Middle School
425 King Street
Santa Cruz,
California, 95060



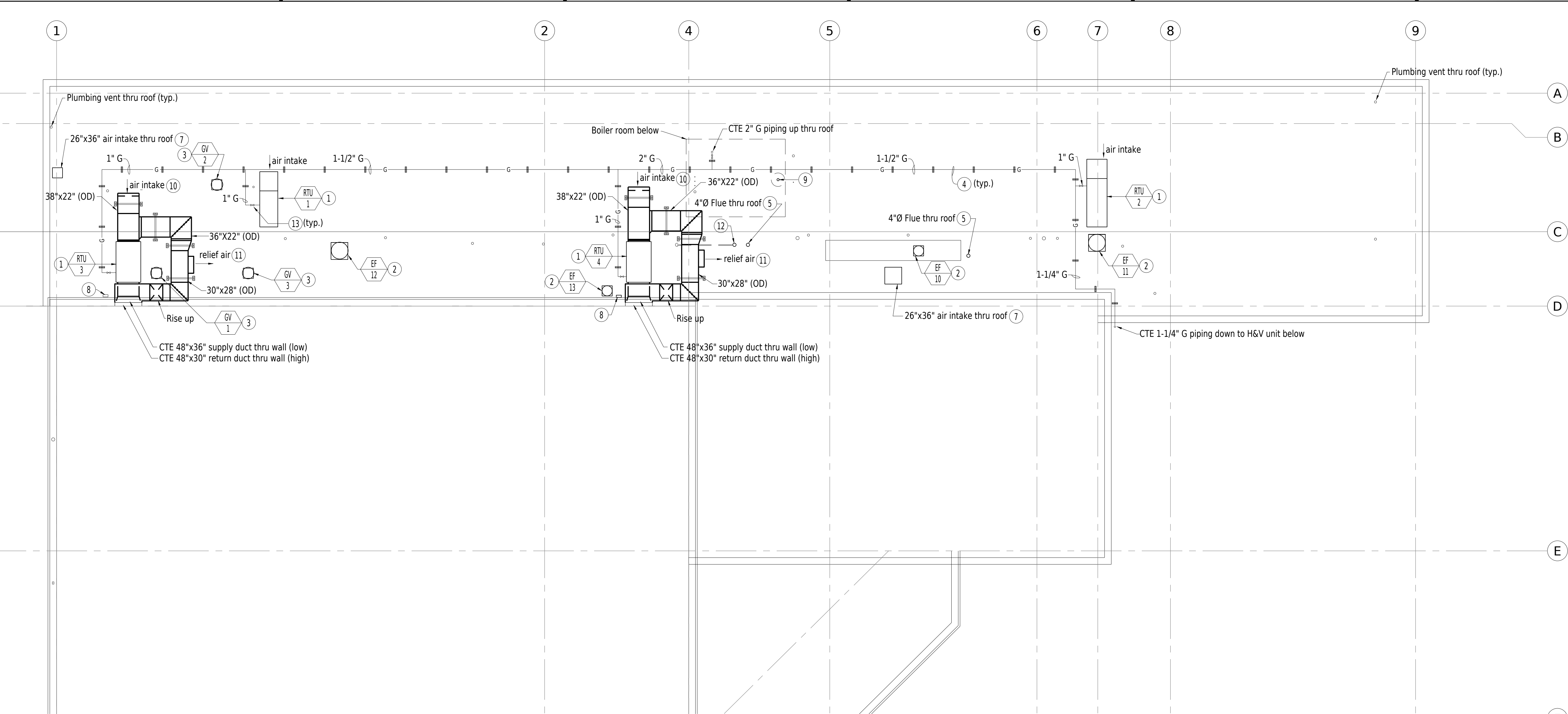
Multipurpose Room Upgrade
**Mission Hill
Middle
School**



Main Building
Science Rooms
Demolition & Floor Plans

Building **AD1-A2.1**

BA 17-006.14



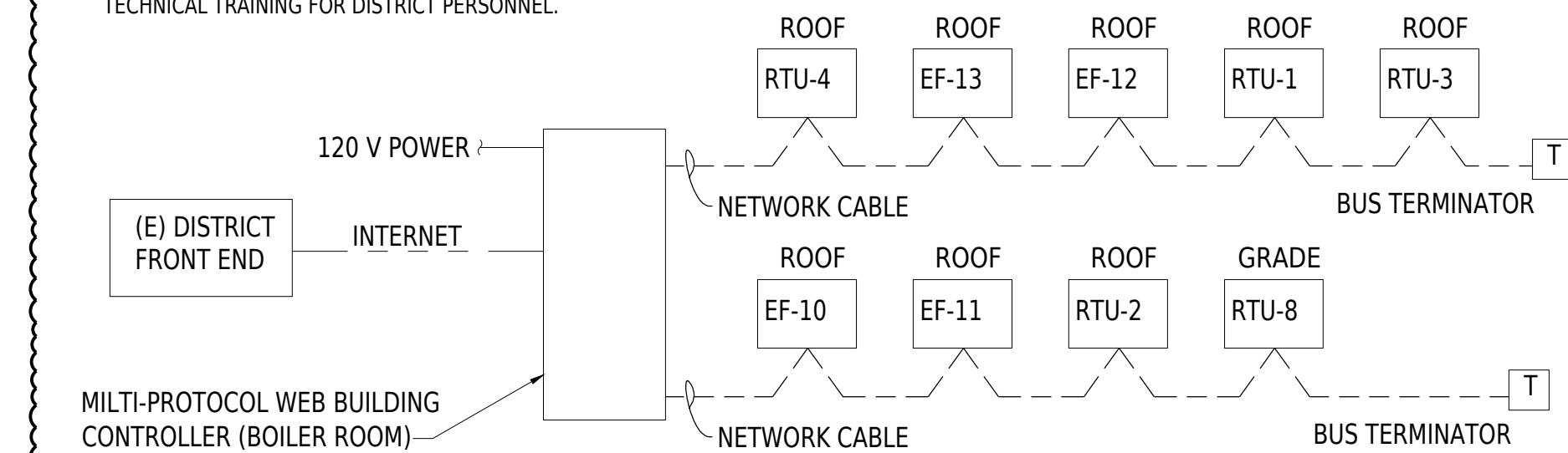
Mechanical Roof Plan
SCALE: 1/8"=1'-0"

CONTROL NOTES:

- PROVIDE A COMPLETE AND OPERATIONAL DIRECT-DIGITAL CONTROL (DDC) SYSTEM AS INDICATED ON THE PROJECT DOCUMENTS. INCLUDE ALL ENGINEERING, PROGRAMMING, CONTROLS AND INSTALLATION MATERIALS, INSTALLATION LABOR, COMMISSIONING AND START-UP, TRAINING, FINAL PROJECT DOCUMENTATION AND GUARANTEE.
- THE DIRECT-DIGITAL CONTROL SYSTEM SHALL CONSIST OF HIGH-SPEED, PEER-TO-PEER NETWORK OF DDC CONTROLLERS. PROVIDE A REMOTE USER INTERFACE USING A STANDARD WEB BROWSER TO ACCESS THE CONTROL SYSTEM GRAPHICS AND CHANGE ADJUSTABLE SETPOINTS WITH PROPER PASSWORD.
- THE DIRECT-DIGITAL CONTROL SYSTEM SHALL BE NATIVE BACNET AND CONTROLLERS AND DEVICES SHALL COMMUNICATE EXCLUSIVELY USING ASHRAE STANDARD 135 BACNET COMMUNICATIONS PROTOCOL.
- DIAGRAMS SHOWN FOR INTENT ONLY. CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARE, SOFTWARE AND NETWORKING AS REQUIRED TO ACCOMPLISH THE DESIGN INTENT. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
- SUBMIT FOR APPROVAL PRIOR TO INSTALLATION DATA SHEETS FOR EQUIPMENT TO BE USED, WIRING DIAGRAM, SYSTEM ARCHITECTURE, AND SEQUENCE OF OPERATION.
- INSTALL WALL MOUNTED THERMOSTATS AND OTHER WALL MOUNTED SENSORS WITH TOP OF BOX AT +48" ABOVE FLOOR. PROVIDE CLEAR PLASTIC PROTECTIVE BOX WITH KEY LOCK AT EACH THERMOSTAT AND AND SENSOR, WITH THE EXCEPTION OF LINE VOLTAGE THERMOSTAT.
- AT THE CONCLUSION OF THE PROJECT, PROVIDE THE DISTRICT WITH "AS-BUILT" DRAWINGS OF THE DDC SYSTEM, O&M MANUAL AND WRITTEN GUARANTEE PER GENERAL SPECIFICATIONS. PROVIDE A MINIMUM OF 1 DAY OF TECHNICAL TRAINING FOR DISTRICT PERSONNEL.

SYSTEM ARCHITECTURE

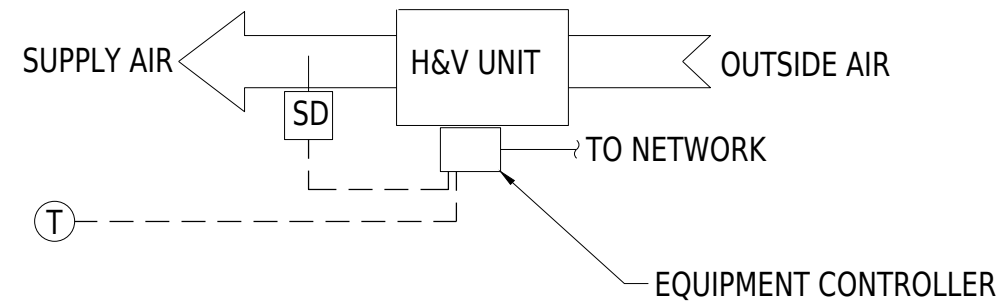
DDC SYSTEM
NTS



SEQUENCE OF OPERATION

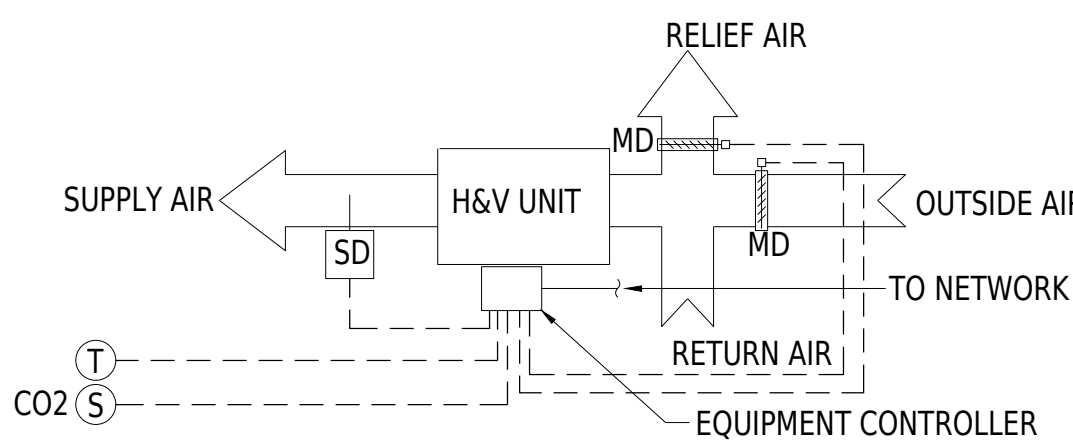
- HEATING AND VENTILATING UNITS RTU-1 AND 2:
- UNIT SHALL HAVE BACNET CONTROLLER WITH NETWORK ACCESS THRU A MULTI-PROTOCOL WEB BUILDING CONTROLLER CONNECTED TO THE INTERNET. DISTRICT SHALL HAVE ABILITY TO PROGRAM SCHEDULES AND SETPOINTS FROM REMOTE ACCESS COMPUTER.
- UNIT SHALL START/STOP ACCORDING TO TIME SCHEDULE PROVIDED BY DISTRICT. DURING NORMAL OPERATION, THE HEATING AND VENTILATING SECTIONS SHALL OPERATE TOGETHER TO MAINTAIN ROOM SETPOINT TEMPERATURE. IF THE TEMPERATURE IS BELOW THE HEATING SETPOINT (68 F - ALL SETPOINTS ARE ADJUSTABLE), GAS HEATING SECTION SHALL OPERATE TO HEAT THE SUPPLY AIR TO MEET THE ROOM SETPOINT TEMPERATURE. ONCE THE ROOM TEMPERATURE EXCEEDS THE SETPOINT, THE HEATING SECTION SHUTS OFF. THE FAN SECTION SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS TO PROVIDE VENTILATION. WHEN THE UNIT IS OFF, THE BACKDRAFT DAMPERS IN THE OUTSIDE AIR INTAKE SHALL BE CLOSED.
- A DUCT MOUNTED SMOKE DETECTOR WILL SHUT DOWN THE UNIT UPON ACTIVATION AND SEND AN ALARM SIGNAL TO THE FIRE ALARM SYSTEM.
- OTHER SYSTEMS:
- TOILET ROOM AND LOCKER ROOM EXHAUST FANS SHALL START/STOP WITH SAME SCHEDULE AS HEATING AND VENTILATING UNIT

RTU-1 AND 2 DIAGRAM



- HEATING AND VENTILATING UNITS RTU-3, 4 AND 8:
- UNIT SHALL HAVE BACNET CONTROLLER WITH NETWORK ACCESS THRU A MULTI-PROTOCOL WEB BUILDING CONTROLLER CONNECTED TO THE INTERNET. DISTRICT SHALL HAVE ABILITY TO PROGRAM SCHEDULES AND SETPOINTS FROM REMOTE ACCESS COMPUTER. IN ADDITION, REMOTE ACCESS CONTROLLER SHALL HAVE THE ABILITY TO OVERRIDE SCHEDULE AND VENTILATE THE GYM WITH 100% OUTSIDE AIR FOR A SELECTED AMOUNT OF TIME (PURGE MODE).
- UNIT SHALL START/STOP ACCORDING TO TIME SCHEDULE PROVIDED BY DISTRICT. DURING NORMAL OPERATION, THE HEATING AND VENTILATING SECTIONS SHALL OPERATE TOGETHER TO MAINTAIN ROOM SETPOINT TEMPERATURE. IF THE TEMPERATURE IS BELOW THE HEATING SETPOINT (68 F - ALL SETPOINTS ARE ADJUSTABLE), GAS HEATING SECTION SHALL OPERATE TO HEAT THE SUPPLY AIR TO MEET THE ROOM SETPOINT TEMPERATURE. THE OUTSIDE AIR DAMPERS AND RELIEF AIR DAMPERS ARE AT MINIMUM. ONCE THE ROOM TEMPERATURE EXCEEDS THE SETPOINT, THE HEATING SECTION SHUTS OFF. IF THE ROOM TEMPERATURE IS ABOVE THE "COOLING" SET POINT (74 F), THE OUTSIDE AIR DAMPER AND THE RELIEF AIR DAMPER SHALL MODULATE OPEN TO 100% OPEN. WHEN THE ROOM TEMPERATURE DROPS BELOW "COOLING" SETPOINT, THE OUTSIDE AIR AND RELIEF AIR DAMPERS WILL MODULATE TO THE MINIMUM POSITION. THE FAN SECTION SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS TO PROVIDE VENTILATION. WHEN THE UNIT IS OFF, THE BACKDRAFT DAMPERS IN THE OUTSIDE AIR INTAKE AND RELIEF DUCT SHALL BE CLOSED.
- DEMAND CONTROL VENTILATION (RTU-3 AND 4): IN ADDITION TO THE ABOVE, IF THE CO2 SENSOR INDICATES THAT THE ROOM IS ABOVE THE SETPOINT OF 800 PPM (ADJUSTABLE), THE OUTSIDE AIR DAMPER AND THE RELIEF AIR DAMPERS MODULATE OPEN TO 100% OPEN UNTIL THE CO2 CONCENTRATION IN THE ROOM IS BELOW THE SET POINT
- A DUCT MOUNTED SMOKE DETECTOR WILL SHUT DOWN THE UNIT UPON ACTIVATION AND SEND AN ALARM SIGNAL TO THE FIRE ALARM SYSTEM.

RTU-3 AND 4 DIAGRAM



GENERAL NOTES

- 1 Install (N) equipment as shown, generally in the same location as the equipment that was removed, connect to (E) ductwork or piping
- 2 Coordinate work with roofing contractor
- 3 At the completion of the work, test, adjust, balance and record supply, return, outside air and exhaust air quantities for rooftop equipment and provide report, see specifications
- 4 Ductwork and piping sizes noted on these plans shall be verified in field prior to ordering of new materials; contractor shall match existing ductwork and pipe sizes, u.o.n.
- 5 Seal water tight all curb, ductwork and piping penetrations of walls and roof
- 6 New ductwork on roof shall be galvanized sheet metal with internal insulation, see specifications
- 7 Provide new DDC system for new rooftop equipment and (E) RTU-8; see 2/M2.1

SHEET NOTES:

- 1 Install (N) heating and ventilating unit on (N) curb
- 2 Install (N) exhaust fan on (N) curb
- 3 Install (N) gravity ventilator on (N) curb
- 4 Install (N) galv. steel gas piping on roof with (N) sup
- 5 Install (N) flue thru roof with (N) UL Listed weather cap
- 6 Install (N) ductwork with (N) supports
- 7 Install (N) air intake thru roof; provide weather cap
- 8 Install (N) weatherproof disconnect for H&V unit on
- 9 Install (N) 4"Ø flue for (E) gas water heater below, extend up thru roof and install (N) UL Listed weather cap
- 10 Install (N) 38"x22" outside air intake with motorized dampers and galv. birdscreen over 45 degree angled opening; maintain min. 10 ft between air intakes and exhaust discharges, flues and plumbing vents
- 11 Install (N) 30"x20" relief air discharge with motorized dampers and galv. birdscreen over 45 degree angled opening
- 12 Offset 4"Ø flue below roof and rise up thru roof in location shown; Install (N) UL Listed weather cap
- 13 Install (N) UL Listed ball type shut off valve, flexible connector and dirt leg at connection to H&V unit

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Santa Cruz
Schools

Mission Hill
Middle School
425 King Street
Santa Cruz,
California, 95060



**Mission Hill
Middle School**

Roof Replacement

REVISION DATE
DSA Submittal 3/1/2019
DSA Backcheck
Delta 1

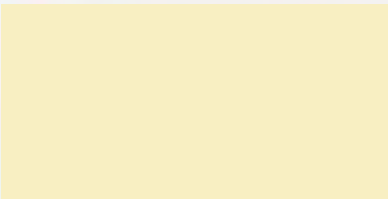
LAWS & ASSOCIATES, Inc.
MECHANICAL CONSULTING ENGINEERS
1801 MURCHISON DRIVE, SUITE 180
BURLINGAME, CALIFORNIA 94010
(650) 697-5691
lawsandassociatesinc.com



Mechanical
Roof Plan

AD1-M2.1

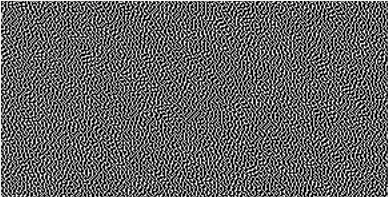
BA 17-006.9



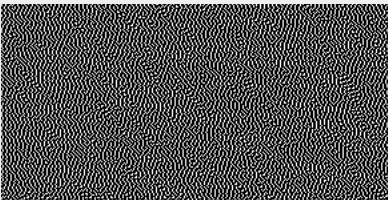
1 **Field Color**
Color: Broken White
MFR: Benjamin Moore



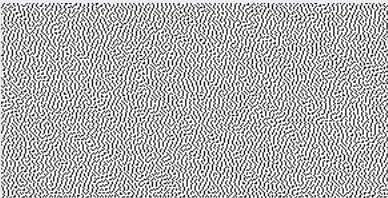
2 **Window Frame/ Railing**
Color: Black
MFR: Benjamin Moore



3 **Clay Tile Roof**
Color: Red Clay
MFR: Boral Roofing (One piece S shaped Barrell Tile)



4 **Downspouts/ Doors**
Color: French Press (AF-170)
MFR: Benjamin Moore



5 **Concrete Base**

**This rendering indicates
design intent for all exterior
elevations**



300 8th Avenue
Suite 202 San Mateo
California 94401

TITLE: Main Building Exterior Painting
PROJECT: Mission Hill Middle School
OWNER: Santa Cruz City School District

DATE 11/20/2022
SCALE
REFER SHT

SHEET **AD1- Paint**
PROJECT NUMBER