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BID ADDENDUM #7

Nanuet Union Free School District
103 Church Street
Nanuet, NY 10954

*Nanuet Bond Projects Phase 4*

Date: May 1st, 2024

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated **June 6, 2023**. and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

CLARIFICATIONS:

1. Who is responsible to provide the Variable Frequency Drives, the Mechanical or Electrical Contractor?

**Response:** What specific mechanical equipment is this referring to? Rooftop exhaust fans scheduled at Miller ES and the HS that are served by VFDs are specified in Division 26.

CHANGES TO SPECIFICATIONS:

1. 14 42 00 – WHEELCHAIR LIFTS
   - Added Battery backup section 2.12.
2. 23 38 13 – KITCHEN VENTILATION HOODS
   - The Reference to Carbon Dioxide system has been removed from section 233813, Part 2.1.C.1.h.

REVISIONS TO DRAWINGS:

ARCHITECTURAL

1. Sheet HS-G100: FIRST FLOOR ENLARGED KITCHEN RCP DEMO ALTERNATE 2
   A. Area of work and alteration shown.

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2. Sheet HS-A401.1: FIRST FLOOR ENLARGED PLAN – WEST (ADMIN) WING – ALT 1
    A. ADA accessible counter height provided, revised finish legend, addition of details A15, E15, and K15.
3. Sheet BM-G021: CODE COMPLIANCE
    A. Revised occupant load and plumbing fixture calculations on sheet.
4. Sheet BM-A401: ENLARGED 1ST & 2ND FLOOR RESTROOMS
    A. Added ADA accessible electric door opener push plate at door.

ABATEMENT

None

STRUCTURAL

None

MECHANICAL

1. Sheet HS-M302: ENLARGED VIEWS
    A. Added fire damper to 52"x10" return air duct.

ELECTRICAL

1. Sheet BM-E001: ELECTRICAL SYMBOLS, LEGENDS AND ABBREVIATIONS
    A. Added detail A7
2. Sheet BM-E101: FIRST FLOOR ELECTRICAL PLANS
    A. Added door operator and push plate. Updated light fixture schedule and electrical plans.
3. Sheet BM-E103: ELECTRICAL ROOF PLAN
    A. Updated roof plan as noted
4. Sheet BM-E300: LOWER LEVEL AND PARTIAL FIRST FLOOR FIRE ALARM - WEST
    A. Updated Fire Alarm Plan at "5/6 Grades Gymnasium".
5. Sheet BM-E301: PARTIAL FIRST FLOOR FIRE ALARM - EAST
    A. Removed strobe from stairwell, added pull station.
6. Sheet BM-E302: PARTIAL FIRST FLOOR FIRE ALARM – SOUTH WEST
    A. Updated fire alarm removals at "7/8 Grades Gymnasium"
7. Sheet BM-E303: PARTIAL SECOND FLOOR FIRE ALARM - EAST
    A. Updated Fire Alarm Plan at five "7th Grade Classroom".
8. Sheet ME-E101: OVERALL ELECTRICAL PLAN
    A. Updated keynote #5
9. Sheet ME-E102: OVERALL ELECTRICAL PLAN
    A. Modified Roof Electrical Plan – Alternate 3
10. Sheet ME-E302: FIRE ALARM PLAN AREA C
    A. Updated keynote #2 and two smoke detectors noted on the basement plan.
11. Sheet ME-E501: DETAILS AND DIAGRAMS
    A. Updated "Single Line Diagram – Existing"
12. Sheet ME-E601: PANEL SCHEDULES
    A. Updated panel schedules as noted.

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PLUMBING

None

SHEETS

| GENERAL | CIVIL | STRUCT | ARCH | MECH | ELEC | PLUMB | ABATEMENT |
|---|---|---|---|---|---|---|---|
| | | | HS-G100 | HS-M302 | BM-E001 | | |
| | | | HS-A401.1 | | BM-E101 | | |
| | | | BM-G021 | | BM-E103 | | |
| | | | BM-A401 | | BM-E300 | | |
| | | | | | BM-E301 | | |
| | | | | | BM-E302 | | |
| | | | | | BM-E303 | | |
| | | | | | ME-E101 | | |
| | | | | | ME-E102 | | |
| | | | | | ME-E302 | | |
| | | | | | ME-E501 | | |
| | | | | | ME-E601 | | |

END OF BID ADDENDUM No. 7

# SECTION 14 42 00 – WHEELCHAIR LIFTS

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

A. The Work of this Section consists of the provision of all plant, labor, materials, equipment, testing and services necessary to complete the work of wheelchair lifts as shown on the schedules, keynotes, drawings, as specified herein, and as may be required by conditions and authorities having jurisdiction, including, but not limited to, the following:
   1. Commercial Unenclosed Vertical Platform Lift.

B. Related Sections:
   1. Division 03 – Cast-in-place concrete existing floor/repair
   2. Division 04 – Unit Masonry
   3. Division 6 - Rough Carpentry
   4. Division 9 - Gypsum Board Assemblies.
   5. Division 9 - Resilient Flooring: Floor finish in cab.
   6. Division 9 - Paints
   7. Division 16 Sections for electrical service for elevators to and including disconnect and fused switches at machine room.
   8. Division 16 Sections for standby power source, transfer switch, and connection from auxiliary contacts in transfer switch to controller.
   9. Division 16 Section "Voice and Data Communication Cabling" for telephone service to elevators.

### 1.3 REFERENCES

A. ASME A18.1 - American Society of Mechanical Engineers - Safety Standard for Platform and Stairway Chair Lifts.

B. ASME A17.1 - Safety Code for Elevators and Escalators.

C. ASME A17.5 - Elevator and Escalator Electrical Equipment.

D. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities.

E. ADAAG - U.S. Architectural & Transportation Barriers Compliance Board's “Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities”.

F. NFPA 70 - National Electric Code.

1.4 REQUIREMENTS OF REGULATORY AGENCIES

A. Fabrication and installation work in compliance with applicable jurisdictional authorities.

B. Provide wheelchair lifts in compliance with:
1. ASME A18.1 - Safety Standard for Platform Lifts and Stairway Chairlifts.
2. ASME A17.1 - Safety Code for Elevators and Escalators.
3. ASME A17.5 - Elevator and Escalator Electrical Equipment.
4. NFPA 70 - National Electric Code.

C. Seismic Design: In accordance with 2 seismic risk zone in accordance with CT State Building code.

D. File shop drawings and submissions with local authorities as the information is made available. Company pre-inspection and jurisdictional authority inspections and permits are to be made on timely basis as required.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations including preparation, storage and handling requirements.
2. Include complete description of performance and operating characteristics.
3. Show maximum and average power demands.

C. Shop Drawings: Survey of existing conditions is required. Provide a complete layout of lift equipment detailing dimensions and clearances as required, erection and anchorage requirements.
1. Include wiring diagrams for power, control and signal systems.

D. Selection Samples: For each finish product specified requiring selection of color or finish, two complete sets of color charts representing manufacturer's full range of available colors and patterns.

E. Verification Samples: for each finished product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product color and pattern.

F. Minutes of preinstallation conference.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Firm with minimum 10 years experience in manufacturing of wheelchair lifts, with evidence of experience with similar installations of type specified.

B. Source Limitations: Obtain wheelchair lifts through one source from a single manufacturer.
1. Provide major lift components, controllers, signal fixtures, door operators, car frames, cabs, and entrances, manufactured by a single manufacturer.

C. Installer Qualifications:
1. Execute work of this section only by a company that has adequate product liability insurance and that can demonstrate to Owner’s satisfaction that, within previous five years, it has

successfully completed at least three projects similar in scope and type to work required on this Project.

2. Skilled tradesmen shall be employees of the installing contractor approved by the manufacturer, with demonstrated ability to perform the work on a timely basis.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store components off the ground in a dry covered area, protected from adverse weather conditions.

C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install systems under environmental conditions outside manufacturer's absolute limits.

B. Do not use wheelchair lifts for hoisting materials or personnel during construction period.

1.9 WARRANTY

A. Manufacturer shall warrant the wheelchair lift materials and workmanship for one year following Substantial Completion.

B. Extended Warranty: provide an extended manufacturer’s warranty for the entire warranty period covering the wheelchair lift materials and workmanship for the following additional extended period beyond the initial one year warranty:

1. Four additional years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Product portable wheelchair lift: Subject to compliance with requirements, provide Ascension Virtuoso 5460P Model Series Vertical Portable Wheelchair Lift or comparable product by one of the following:

1. Ascension
2. Or approved equal

B. Requests for substitutions will be considered in accordance with provisions of Section 016000.

2.2 PORTABLE WHEELCHAIR LIFT

A. Capacity: 750 lbs (340 kg) rated capacity.

B. Weight of lift: 1025 pounds maximum [465 kg].

C. Vertical speed: seven (7) fpm (feet per minute) [2.1 m/min (meters per minute)].

D. Vertical travel: 12" to 60" [305 mm to 1524 mm], infinitely adjustable.

E. Standard platform gate configuration: the upper landing platform gate shall be left-hinged when facing the lift from the upper landing; the lower landing platform gate shall be right-hinged when facing the lift from the lower landing. Contact Ascension for custom platform gate configurations.

2.3 DIMENSIONS

A. Platform size: 36" x 54" with 43" high sidewalls and platform gates.

B. Space requirements (operational, storage, and transport): 44" high (in the down position), 66" long, 48" wide.

C. No part of the lift shall stand over 44” high when the platform is on the ground except when equipped with optional stage guard).

2.4 MATERIALS

A. The platform frame, base frame, and lifting device shall be constructed from ASTM A 36, AISI 1018, or AISI 1020 Steel.

B. The windows shall be fabricated from 1/4" thick high impact strength clear thermoplastic.

C. The safety skirt shall be constructed from rigid plastic.

2.5 FINISH

A. All metal components shall be thoroughly cleaned to remove any foreign substance. Exposed metal surfaces shall be finished with an oven-baked powder coating.

B. Standard color is black; contact Ascension for custom color selection.

2.6 DRIVE CONFIGURATION

A. Drive shall be direct-acting hydraulic.

B. Both sides of lift platform shall be supported evenly by means of synchronized hydraulic cylinders.

C. Hydraulic power unit shall be mounted on vibration-isolating supports designed to minimize vibration transmission and reduce frame-borne noise.

2.7 ELECTRICAL REQUIREMENTS

A. Electric power requirements shall be compatible with 120VAC, 60 hertz, single phase, 15 amp service (option: international electrical configurations available).

B. The lift shall be supplied with a three prong grounded electrical cord (20' in length).

C. The lift shall contain a Ground Fault Circuit Interrupter (GFCI).

D. Motor shall be 1/2 hp, 115V AC single phase (international configurations available).

E. Control circuits shall be 12 VDC.

F. Electrical components shall be UL listed and CSA registered.

G. Electrical system shall be certified to ASME A17.5 by an independent testing laboratory.

2.8 SAFETY DEVICES

The lift shall be constructed to meet the applicable requirements of ADAAG, ASME A17.1-1996 or older (PART XX, SECTION 2000), ASME A18.1, and ANSI A117.1 as they would apply to a portable lifting device. The lift shall include the following safety features for protection of the passenger and general public.

A. Grounded electrical system.

B. 12 VDC operating controls.

C. Constant pressure operating switches.

D. Emergency stop button at passenger control station.

E. Electro-mechanical interlock to prevent accidental opening of lower landing platform gate.

F. Gate switches to prevent platform movement if either platform gate is open.

G. Lift platform stop height switch.

H. Safety skirt that completely encloses and protects the area under the lift platform.

I. 43" [1092 mm] high sidewalls and platform gates.J. Unobstructed view through transparent sidewalls and platform gates.

K. Grab bar extending full length of inside wall.

L. Slip resistant surfaces on platform floor and dock plate.

M. Structural safety factors as specified in ASME A18.1.

N. Self-closing platform gates.

2.9 PORTABILITY

A. Casters shall be easily attached to the platform for portability and stored in the base frame when not in use. Casters shall be 3½" [89 mm] in diameter and fabricated from hard rubber. The casters shall be capable of being installed without tools. When the casters are installed, the lift shall roll easily over any hard, smooth, level surface. The lift shall be capable of being moved by fork lift or truck.

2.10 OPERATING CHARACTERISTICS

A. Lift shall include three (3) constant pressure “UP/DOWN” switches, located outside of the platform at both ends and inside the platform.

B. The passenger control station shall be provided with a separate “PUSH TO STOP” emergency button. The emergency stop button shall prevent any operation of the lift when actuated.

C. The platform stop height shall be adjustable without the use of tools.

D. Opening the upper landing platform gate shall deploy a dock plate that rests on the upper landing surface. The dock plate shall provide a smooth transition between the platform and the upper landing. Closing the upper landing platform gate shall retract the dock plate.

E. The lower landing platform gate shall be provided with a mechanical interlock that prevents the platform gate from being opened whenever the platform is more than 2" [50 mm] above the full down position.

2.11 COMPRESSION CAPABILITY

A. The lift shall be capable of being compressed to 33" wide to facilitate relocation through a 36" wide doorway. An additional tool kit from Ascension is recommended to facilitate compression of the lift.

2.12 BATTERY BACKUP

A. OPERATION
1. For use with Ascension Virtuoso and Protégé model chair lifts.
2. Provides standby power for a minimum of 5 full lifting cycles carrying lift’s rated load.
3. For indoor use only.

B. PHYSICAL CHARACTERISTICS
1. Material: Steel enclosure with plastic trim.
2. Finish: Powder coated, BLACK.
3. Weight: 112 LBS.

C. SPECIFICATIONS:
1. Input: 120VAC, 20A, Hardwired.
2. Output: 12oVAC, 20A, Hardwired.
3. Battery: Sealed lead acid.

D. Backup unit shall be wired to main disconnect switch (by others) so that switch disconnects both input and output power from the backup unit.

E. Unit supplied with hardwiring kit. Unit ships with cord, plug and output receptacles which are removed when hardwired in field.

F. Backup unit shall be installed such that unit’s internal fan will be able to dissipate heat generated by the unit. If to be installed in confined space, Ascension recommends no less than 20 square inches open vent area.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Set up lift for operation as described in manufacturer's operating manual.

B. If desired, lift may be anchored to floor surface using the 9/16" mounting holes provided in the base of the lift.

3.2 MAINTENANCE

A. Maintenance of the lift shall consist of regular cleaning as deemed necessary by the using facility. General inspection, maintenance, and lubrication shall be specified in the manufacturer's service manual.

END OF SECTION 14 42 00

# PART 1 GENERAL

## 1.1 SECTION INCLUDES

A. Grease Laden Exhaust Hoods

B. Kitchen Hood Demand Control Ventilation System

## 1.2 REFERENCES

A. NFPA 70 - National Electrical Code; National Fire Protection Association; 1996.

B. NFPA 96 - Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations; National Fire Protection Association; 1994.

C. UL (EAUED) - Electrical Appliance and Utilization Equipment Directory; Underwriters Laboratories Inc.; current edition.

## 1.3 SUBMITTALS

A. Submit the following for approval:

1. Product Data Sheets including the following data if applicable:

   a. Electrical Ratings

   b. Dimensions

   c. Weights

   d. Loads

   e. Required Clearances

   f. Field Connections

2. Shop Drawings:

   a. Indicate hoods, exhaust, and supply equipment being controlled by the system.

   b. Indicate locations of sensors, system controller, VFDs and other components.

   c. Provide wiring diagrams for power, signal, and control wiring.

   d. Provide a description of Sequence of Operation

3. Installation Instructions

   a. Indicate Installation Procedures and Scopes of Work

4. Reference Information:

   a. Hood Operation and Maintenance Manual.

b. Sample Startup Report

c. VFD Manuals

## 1.4 QUALITY ASSURANCE

A. All electrical components, devices, and accessories shall be listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Control System shall be tested and certified to conform to the following standards.

1. UL2017 – Standard for General-Purpose Signaling Devices and Systems.
2. UL710– Standard for Exhaust Hoods for Commercial Cooking Equipment.
3. FCC Class B Standard CFR47 Part 15.109 on Radiated Emissions.
4. FCC Class B Standard CFR47 Part 15.109 on Conducted Emissions.
5. CSA C22.2 No. 205-M1983 – Signal Equipment.
6. CE Class B Directive 98/34/EEC: Technical Standards & Regulations Directive
7. CE Class B Directive 2004/108/EC: Electromagnetic Compatibility with Amending Directives 92/31/EEC, 93/68/EEC and 91/263/EEC
8. CE Standard EN 61000-6-3: 2007 – Emissions
9. CE Standard EN 61000-3-2: 2006 – Harmonic Current Emissions
10. CE Standard EN 61000-3-3: 1995 +A1:2001, +A2:2005 – Voltage Fluctuations and Flicker
11. CE Standard EN 61000-6-1: 2007 Electrostatic Discharge
12. CE Standard EN 61000-6-1: 2007 Radiated Immunity
13. CE Standard EN 61000-6-1: 2007 Electrical Fast Transients.
14. CE Standard EN 61000-6-1: 2007 Surge.
15. CE Standard EN 61000-6-1: 2007 Conducted Immunity.
16. CE Standard EN 61000-6-1: 2007 Voltage Dips and Short Interruptions.

## 1.5 REGULATORY REQUIREMENTS

A. Products Requiring Electrical Connection: Listed and classified by UL (EAUED) as suitable for the purpose specified and indicated.

**PART 2 PRODUCTS**

**2.1 GREASE LADEN EXHAUST HOODS (H-1A/H-1B)**

A. Wall or island style as scheduled on the drawings, kitchen exhaust hoods designed for removal of grease laden heat and fumes.

B. Construction:

1. Kitchen Ventilation hood(s) shall be of the Type I, exhaust only wall canopy or island style suitable for all types of cooking applications. The hood(s) shall be U.L. 710 Listed without a fire damper for 700°F rated cooking appliances.

2. The hood(s) exterior shall be constructed of a minimum of 18 gauge 430 series stainless steel. The hood(s) shall be constructed using the standing seam method for optimum strength and with a Performance Enhancing Lip (PEL) to improve capture efficiency by turning air back into the hood.

3. All seams, joints and penetrations of the hood enclosure shall be welded and/or liquid tight. Lighter material gauges, alternate material types and finishes are not acceptable. All unexposed interior surfaces shall be constructed of a minimum 18 gauge corrosion resistant steel including, but not limited to ducts, plenum, and brackets.

4. The hood(s) shall include a filter housing constructed of the same material as the hood. The high efficiency stainless steel filters shall be U.L. 1046 Classified and NSF Certified, in sufficient number and sizes to ensure optimum performance. Filters shall direct the exhaust airflow through individual cyclone chambers, utilizing centrifugal impingement grease extraction technology. The filter housing shall terminate in a pitched, full length grease trough which shall drain into a removable grease container. These filters shall have a grease removal efficiency of 69% at 8 microns (51% from 3-10 microns).

5. Vapor proof, U.L. Listed LED light fixtures shall be pre-wired to a junction box located at the top of the hood for field connection. Wiring shall conform to the requirements of the NFPA 70 7. Hoods shall be built in accordance with the NFPA 96, IMC, UMC, and bear the NSF Seal of Approval. The hood manufacturer shall provide, on request, the necessary data that confirms compliance with the code authorities listed above.

C. Options:

1. Fire Suppression System (Provide for all kitchen hoods scheduled):

a. Field piping installed chemical fire suppression system for the protection of the kitchen ventilation system and cooking appliances. Fire system cabinet shall be included as part of ALL kitchen hoods. The system shall be capable of automatic detection and actuation and remote manual actuation. Piping shall be installed above the hood and shall be concealed from view. No exposed piping shall be allowed except for appliance drops. System shall be

complete with agent tank, nitrogen cartridge, regulated release mechanism and regulated actuator assembly.

b. The hood(s) shall contain a factory engineered and pre-piped, UL Listed, Wet Chemical, ANSUL R-102 restaurant fire suppression system.

c. The system piping shall be installed in the hood at the time of construction above the hood, and shall be concealed from view. No exposed piping is acceptable, with the exception of appliance drops. The system shall be capable of automatic detection and actuation and remote manual actuation. The system shall have the fire suppression capabilities to protect the duct(s), plenum(s), filter area(s) and cooking equipment.

d. The system shall include schedule 40 black iron pipe, detectors, and chrome appliance drops.

e. The system shall include all parts to complete the system as well as field installation and certification. A 1-1/4" Mechanical gas valve (for high school hoods H-1A/H-1B) shall be furnished for gas line shut-off application.

f. The system shall also include the release assembly, agent cylinder, agent, detectors, fusible links, liquid tight fittings, remote manual pull station, and schedule 40 black iron pipe with chrome sleeving for exposed areas.

g. A certified local Ansul distributor shall be selected by the factory for final system hook-up.

h. Ansul based system shall meet the requirements of NFPA 96.

i. Detectors: The detectors shall be the fusible link style designed to separate at a specific temperature.

j. Manual pull station for remote mounting.

k. Furnish emergency solenoid gas shutoff valve for installation where shown on drawings.

l. Provide services of Ansul representative for final system hook-up and certification.

2. Light Fixtures: UL listed, vapor-proof LED light fixtures shall be prewired, with connections accessible at the top of the hood for field connection to power. Wiring shall conform to the requirements of the National Electric Code.

3. Electrical Control Panel: Face mounted canopy light control switch and fan control switch with pilot light to control hood lights and exhaust fan.

4. Enclosure panels: Formed of 18 gauge, type 304 stainless steel with #4 finish to enclose the area between the top of the hood and ceiling.

D. Variable Volume Kitchen Control Package (FOR HIGH SCHOOL HOODS H-1A/H-1B):

1. The Variable Volume Kitchen Control system shall be a U.L. Listed outlet center. The standard package shall consist of a utility control cabinet constructed of a minimum 18 gauge 400 series stainless steel, a user interface keypad, and temperature sensors.

    a. Temperature sensors shall be made of stainless steel and shall be installed in a U.L. approved coupling.

    b. The hood cabinet shall be UL Listed to Standard 891. The pre-engineered control center shall include, but not be limited to, fan motor starters, light and fan switches, fire relay which controls the exhaust fan, quarter turn latch, color coded wiring with wiring diagram, grounding terminal blocks, and distribution terminal control strip for control wiring connection. All electrical components shall be UL listed or Classified where applicable and wired in compliance with the National Electrical Code.

    c. The control center shall be utility cabinet mounted with the switches face mounted on the utility cabinet, with overall dimensions for the control cabinet being 36 in. x 24 in. x 12 in.

2. The utility control cabinet shall house a NEMA-1 stainless steel box which includes terminal blocks for field connections and a Programmable Logic Controller (PLC). The PLC shall be capable of controlling multiple exhaust and supply fans via Variable Frequency Drive (VFD) and/or analog signals.

3. The utility control cabinet shall house the VFD connected to the hood's exhaust fan. The VFD shall be provided by the hood and variable volume kitchen control package manufacturer:

    a. Variable Frequency Controllers: Enclosed controllers suitable for operating the indicated loads, in conformance with requirements of NEMA ICS 7. Select unspecified features and options in accordance with NEMA ICS 3.1.

        1) Employ microprocessor-based inverter logic isolated from power circuits.

        2) Employ pulse-width-modulated inverter system.

        3) Shall have internal 5% impedance reactors to reduce the harmonics to the power line and to add protection from AC line transients. The 5% impedance may be from dual (positive and negative DC bus) reactors, or 5% AC line reactors. VFD's with only one DC reactor shall add an AC line reactor.

        4) Design for ability to operate controller with motor disconnected from output.

        5) Design to attempt five automatic restarts following fault condition before locking out and requiring manual restart.

        6) Design for user selectable restart after power outage or interruption.

b. AC transient protection system consisting of 4-120 joule rated MOV's (phase-to-phase and phase-to-ground), capacitor clamp, and 5% equivalent impedance internal reactors.

c. Enclosures: NEMA 250, Type 1, for indoor locations, suitable for equipment application in places restricted to persons employed on the premises.

d. Rated Input Voltage: 208 volts, three phase, 48-63 Hertz, +30%/-35%.

e. Motor Nameplate Voltage: 200 volts, three phase, 60 Hertz.

f. Displacement Power Factor: Between 1.0 and 0.95, lagging, over entire range of operating speed and load. g. Operating Ambient: 0 degrees C to 40 degrees C.

g. Current Limit Adjustment: 60 to 110 percent of rated.

h. Acceleration Rate Adjustment: minimum range 0.5 to 30 seconds.

i. Deceleration Rate Adjustment: minimum range 1 to 30 seconds.

j. Input Signal: two analog inputs, user selectable 0 to 10 VDC, 4 to 20 mA DC.

k. Output Signal: analog output signal proportional to motor speed, user selectable 0 to 10 VDC, 4 to 20 mA DC.

l. Suitable for variable torque loads.

m. Regenerative braking feature to permit direction of of regenerative energy from the motor back into the AC line.

n. DC injection brake feature, user selectable.

o. Suitable for operating on a circuit capable of delivering 100,000 AIC fault current.

p. Emergency Stop Interface: Input to receive dry contact closure to signal drive stop on alarm condition.

q. Include undervoltage protection/release, input phase loss protection, motor overcurrent protection, and ground fault protection.

r. Control Power Source: integral 24VDC, 250ma on-board source.

s. Output relays: Three output relays with programmable function, Form C, 250VAC/2Arms, programmable to respond to drive faults, drive current output level low, and drive current output level high. Programmable to read Form C relay output as proof of flow, signaling condition via keypad warning, relay output, and/or serial communications bus. Outputs shall include programmable time delays that shall allow acceleration from zero speed, without signaling a false underload condition.

t. Digital inputs: Six digital inputs, user programmable

u. Frequency rejection: Three independent programmable bands, user selectable width and mid-points, to prevent drive output of rejected frequencies. w. PID Setpoint Controllers: Provide two (2) PID setpoint controllers to allow pressure and flow signals to be connected, closed loop controlled from the micropressor.

v. Filters: Provide DV/DT filtering on drive output as recommended by drive manufacturer, motor manufacturer, or cooling tower manufacturer.

w. Filters: Provide EMI/RFI filtering in compliance with standard EN 61800-3 for the First Environment, restricted level with up to 100' of motor cables.

x. Disconnecting Means: Include integral non-fused disconnect switch on the line side of each VFD.

4. The user interface shall be a keypad provided in accordance with the following specifications.

a. Keypad:

1) The user interface shall be a membrane keypad with a graphic overlay and LCD display. The standard interface shall include hood (fan) operation, hood light, gas reset, and auto tempering buttons depending on the configuration.

2) System notifications (including but not limited to hood operation, current alarms, and fan 100% override time left) shall be displayed in the middle of the screen. A red alarm light shall flash on the keypad upon a system alarm.

5. System Operation:

a. The sequence of operation shall utilize resistive type temperature sensors that are mounted in the capture tank of the hood to monitor exhaust air temperatures. Fluctuation of exhaust temperature caused by cooking load shall be sensed by the temperature sensor and conveyed to the controller. The controller shall fully modulate the speed of the fan via the analog signal, from maximum speed down to a minimum speed to be determined by building test and balance. The system shall be capable of serving as an IMC compliant auto start-up control to automatically start the fans during cooking operations. Analog signal(s) shall allow modulation of the fans based on the exhaust air temperature sensed by the temperature sensors. It must have a fully modulating turndown of up to 50% of maximum speed. Upon pressing the Fan 100% button, exhaust fan speeds shall go to maximum speed for 10 minutes (adjustable), or until the Fan 100% button is pressed again, which shall return the system to full temperature control.

b. In a fire condition, the control panel shall be capable of forcing the exhaust to maximum speed, shutdown of supply air from associated rooftop units, and shutdown of lights regardless of current fan speeds via integration with a fire system.

c. Standard Variable Volume Controls shall be provided with a digital remote enable, fire system interface, and shunt trip breaker control.

d. The follow options shall be furnished:

1) Building Management System Interface

(a) BACnet

(b) Gas Reset

(c) High Temperature Alarm

## PART 3 EXECUTION

### 3.1 EXAMINATION

A. Verify ventilation outlets, service connections, and supports are correct and in required location.

B. Verify that electric power is available and of the correct characteristics.

### 3.2 INSTALLATION

A. Install items in accordance with manufacturers' instructions.

B. Insulate to prevent electrolysis between dissimilar metals.

C. Weld and grind joints in steel work tight, without open seams, where necessary due to limitations of sheet sizes or installation requirements.

D. Sequence installation and erection to ensure correct mechanical and electrical utility connections are achieved.

E. Cut, fit, and patch where necessary. Provide cutting and patching of items of this section required for installation or services of equipment.

F. Cut and drill components for service outlets, fixtures, and fittings.

G. Use anchoring devices appropriate for equipment and expected usage.

H. Provide sealant to achieve clean joint with adjacent building finishes and between abutting components.

I. A Factory-Authorized Service Representative shall perform startup service including:

1. Inspection of installed components. Verification of correct installation and operation.

2. Programming of system parameters for proper detection of cooking conditions.

3. Programming of system parameters for proper operation of control input/output points.

4. Programming of VFD parameters for proper control communication with control system.

5. Programming of VFD motor operational set points (maximum speed and allowable motor current).

6. Verification of Hood control system functionality.

7. Results shall be captured in a written report.

### 3.3 ADJUSTING

A. Test and Balance Contractor shall adjust hood balancing baffles and VFDs to achieve maximum design airflow at maximum speed.

### 3.4 CLEANING

A. Remove masking or protective covering from stainless steel and other finished surfaces.

B. Wash and clean equipment.

C. Polish glass, plastic, hardware, accessories, fixtures, and fittings.

### 3.5 DEMONSTRATION AND INSTRUCTIONS

A. A Factory-Authorized Service Representative shall train Owner's maintenance personnel to adjust, operate, and maintain Packaged Kitchen Hood Ventilation Control Systems.

### 3.6 PROTECTION OF FINISHED WORK

A. Remove protective coverings from prefinished work.

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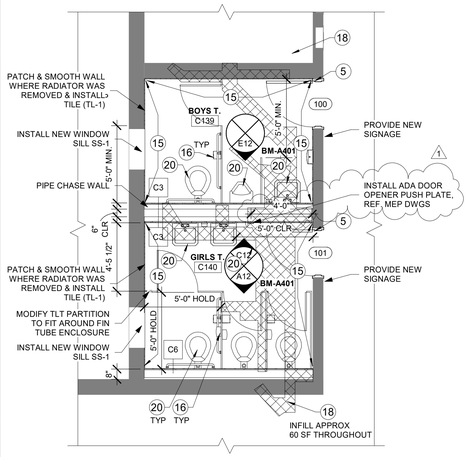
# FINISH LEGEND

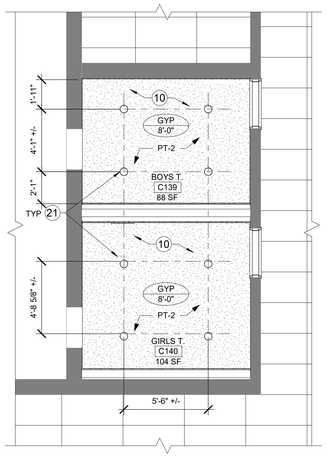
| SYMBOL | MATERIAL TYPE | MANUFACTURER | PATTERN | COLOR | NOTES |
|---|---|---|---|---|---|
| ACT-1 | ACOUSTICAL CEILING TILE | ARMSTRONG | 2 X 4, KITCHEN ZONE, LAY-IN FINE TEXTURE | WHITE | KITCHEN |
| EP-1 | EPOXY FLOORING | DURAFLEX | MICRO CHIP | GALAXY | RESTROOM FLOORS - TO COVE UP WALL 4" |
| GR-1 | GROUT | MAPEI | EPOXY GROUT | TBD | TL-1 |
| PT-1 | PAINT | SHERWIN WILLIAMS | EPOXY | SW 9020 RAYO DE SOL | FIELD PAINT - WALLS |
| PT-2 | PAINT | SHERWIN WILLIAMS | EPOXY | SW 7028 INCREDIBLE WHITE | CEILINGS |
| PT-3 | PAINT | SHERWIN WILLIAMS | SATIN | SW 6990 CAVIAR | DOOR AND FRAME |
| SS-1 | SOLID SURFACE WINDOW SILL | CORIAN | 3/4" THICK | BLACK | BATHROOM WINDOW SILLS |
| TL-1 | PORCELAIN TILE | CROSSVILLE | SOHO 4X12; GLOSS | CANVAS WHITE | RESTROOM WALL TILE WAINSCOT; REFER TO ELEVATIONS FOR HEIGHT PER RESTROOM |
| TS-1 | TRANSITION STRIP | SCHLUTER | SCHIENE | AE 125 | EP TO EXISTING |
| TS-2 | TRANSITION STRIP | SCHLUTER | SCHLUTER-QUADEC; ALUMINUM | BLACK; 4.5MM | TL TO WALL |

# TOILET ACCESSORY SCHEDULE

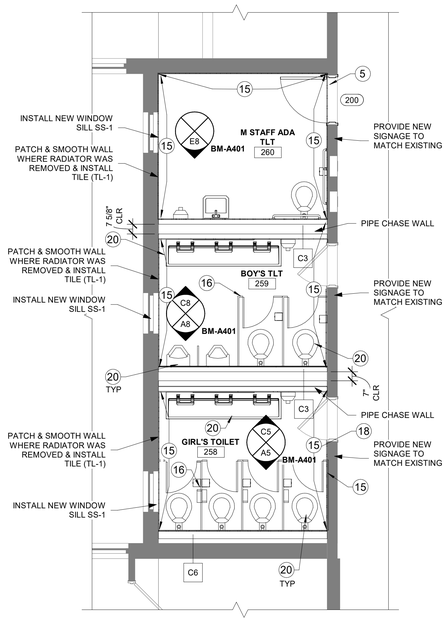
| TAG | PRODUCT | MANUFACTURER | PRODUCT NUMBER | FINISH | COMMENTS |
|---|---|---|---|---|---|
| TA-1 | SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER | BOBRICK OR EQ. | B-4288 | SATIN STAINLESS STEEL | ALL TOILETS |
| TA-2 | SOAP DISPENSER | | | | OWNER PROVIDED, CONTRACTOR INSTALLED, STUDENT RESTROOMS |
| TA-3 | HAND DRYER | BOBBRICK OR EQ. | B-7179.MBLK | BLACK | |
| TA-4 | ADA GRAB BARS (18", 36", 42") | BOBRICK OR EQ. | B-6806 SERIES | PEENED | |
| TA-5 | TOILET PARTITIONS | SCRANTON PRODUCTS | HINEY HIDERS | BLACK - ORANGE PEEL | GIRLS AND BOYS RESTROOMS |
| TA-6 | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | BOBRICK OR EQ. | B-270 | | WOMENS FACULTY RESTROOM |
| TA-7 | WELDED-FRAME MIRROR (24"X36") | BOBBRICK OR EQ. | B-290 2436.MBLK | MATTE BLACK | 1ST FLOOR MENS, BOYS & GIRLS RESTROOM |
| TA-8 | WELDED-FRAME MIRROR (24"X48") | BOBBRICK OR EQ. | B-290.MBLK | MATTE BLACK | 2ND FLOOR BOYS & GIRLS RESTROOM |



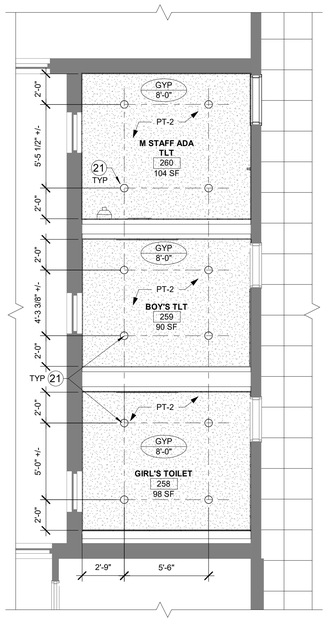

1ST FLR PL - ADA TLTS (G15)
1/4" = 1'-0"



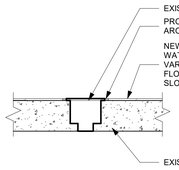

1ST FLR RCP - ADA TLTS (G11)
1/4" = 1'-0"



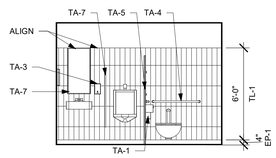

2ND FLOOR - TOILETS (G8)
1/4" = 1'-0"



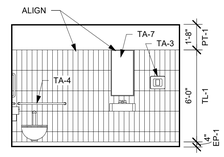

2ND FLOOR RCP - TOILETS (G4)
1/4" = 1'-0"




EPOXY FLOOR FLOOR (D16)
3" = 1'-0"

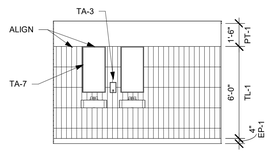



1ST FLR BOY'S ADA TLT (E12)
1/4" = 1'-0"

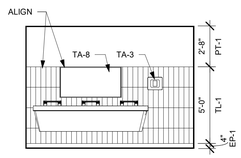



2ND FLR FACULTY TLT (E8)
1/4" = 1'-0"

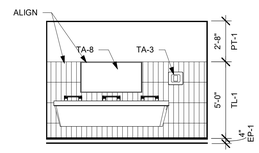
**NOTE:**
REFER TO SHEET G-052 FOR STANDARD TOILET FIXTURE MOUNTING HEIGHTS



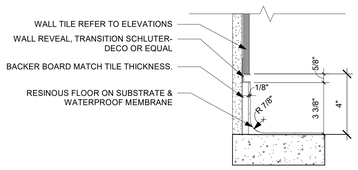

1ST FLR GIRLS ADA SINK WALL (C12)
1/4" = 1'-0"



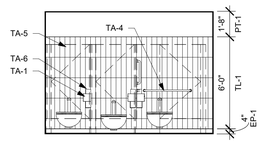

2ND FLR BOY'S TLT WALL (C8)
1/4" = 1'-0"



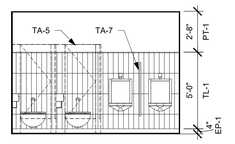

2ND FLR GIRL'S TLT WALL (C5)
1/4" = 1'-0"



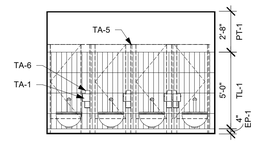

EPOXY FLOOR WALL BASE (A16)
3" = 1'-0"




1ST FLR GIRLS ADA TLT WALL (A12)
1/4" = 1'-0"




2ND FLR BOY'S SINK WALL (A8)
1/4" = 1'-0"




2ND FLR GIRL'S SINK WALL (A5)
1/4" = 1'-0"

# GENERAL NOTES:

1. VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WITH DEMOLITION WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD.
3. INTERIOR WALL DIMENSIONS ARE MEASURED FROM FINISH FACE OF GYP BOARD, CMU OR PLASTER U.N.O.
4. ALL DEMO WORK SHOULD BE COORDINATED WITH THE NEW WORK PLANS AND MEP DWGS. ABATEMENT SCOPE IS TO BE COMPLETED FIRST AND SIGNED OFF BY THE INSPECTOR OR ANY GOVERNED AGENT BEFORE ANY OTHER DEMO WORK IS STARTED.
5. ALL NEW OPENINGS FOR LOUVERS SHALL BE COORDINATED WITH MEP DWGS FOR LOCATIONS AND SIZES.
6. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL, AND OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL, SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE, OR SCHEDULED TO REMAIN.
7. WHEN WALLS OR OTHER SUPPORTING AND/OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION, TEMPORARY STRUCTURAL SUPPORTS AND BRACING FOR ADJACENT CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT SUPPORTING STRUCTURE IS IN PLACE AND ABLE TO SUPPORT IMPOSED LOADS.
8. PROTECT ALL ADJACENT SURFACES AND MATERIALS DURING DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED AS A RESULT OF WORK AND SHALL REPAIR OR REPLACE DAMAGED MATERIALS OR PRODUCTS.
9. CUT AND PATCH ROOF AS REQ'D FOR MEP WORK. REFER TO MEP DWGS AND ROOF DEMO PLAN.
10. ALL EXISTING WALLS WHERE EXISTING DUCTWORK/PIPING HAS BEEN REMOVED, SHALL BE PATCHED WITH SAME SIZE BLOCK IN COURSING READY FOR FINISH AS SCHEDULED. SEE MEP DEMO PLAN FOR EXTENT OF REMOVAL.
11. PATCH AND FINISH WALL AND FLOOR AT MECHANICAL UNIT WORK AREAS. PROVIDE NEW FLOORING TO MATCH ADJACENT FLOORING WHERE REQUIRED.
12. PATCH/REPAIR/REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK AND MATCH/ALIGN WITH EXISTING ADJACENT SURFACES SCHEDULED TO REMAIN. PREP SURFACES TO RECEIVE ALL LABOR AND MATERIALS REQUIRED TO RENDER SUBSTRATES ACCEPTABLE TO RECEIVE NEW FINISHES SPECIFIED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS.
13. ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MAINTAIN THE EXITING FIRE RATINGS OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.

# FLOOR PLAN LEGEND

- (1) NEW WORK KEYNOTE
- (101A) DOOR TAG
- (A0i) WALL TAG
- EXISTING CONDITIONS TO REMAIN / NOT IN CONTRACT (N.I.C.)
- AREA OF WORK

# CEILING PLAN NOTES:

1. V.I.F ALL CEILING HEIGHTS PRIOR TO REMOVALS.
2. THE NEW CEILING HEIGHT SHOULD MATCH EXISTING CEILING TO BE REMOVED.
3. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS AND MECHANICAL PLANS. THE CONTRACT SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
4. ALL LIGHT FIXTURE DIMENSIONS ARE MEASURED FROM CENTERLINE OF FIXTURE TO FACE OF WALL/SOFFIT U.O.N
5. REFER TO ELECTRICAL PLANS FOR LOCATION AND QUANTITY OF SMOKE DETECTORS, EXIT SIGNS, SPEAKERS AND FIRE ALARM DEVICES. ALL SMOKE DETECTORS TO BE CENTERED ON ACT TILE WHERE PRESENT.
6. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT, COORDINATE WITH MECH PLANS, TYP.
7. ALL AREAS WITHOUT A HATCH PATTERN ARE EXISTING TO REMAIN. SEE FINISH SCHEDULE FOR PAINT COLOR.
8. CENTER ALL CEILING TILE GRIDS BOTH DIRECTIONS IN ALL ROOMS/SPACES/CORRIDORS, NO PERIMETER GRID SPACING / ACOUSTICAL TILE CUT LESS THAN 6".
9. ALL LIGHT FIXTURES AND DIFFUSERS SHALL BE CENTERED ON THE TILE U.N.O
10. SHADOW MOLDING TO BE USED AROUND THE PERIMETER OF ACOUSTIC CEILING TILE WHEN EDGE IS LESS THAN 5"
11. CONTRACTOR TO COORDINATE RCP'S WINDOW SHADE INSTALLATION.
12. EXISTING ACT TILE TO BE REMOVED AND REPLACED / MODIFIED AS REQUIRED FOR MECHANICAL DEMO AND NEW WORK.
13. CUT AND PATCH GYP CEILING AS REQ'D FOR MECHANICAL WORK. REFER TO MEP DWGS. FINISH AND PAINT GYP TO MATCH EXISTING.

# CEILING PLAN LEGEND:

- X / X'- XX" — CEILING MATERIAL (SEE FINISH SCHEDULE); CEILING HEIGHT AFF
- (1) CEILING PLAN NEW WORK KEYNOTE
- EXISTING CONDITIONS TO REMAIN / NOT IN CONTRACT (N.I.C.)
- EXISTING PLASTER CEILING SYSTEM
- NEW GYPSUM WALL BOARD SOFFIT OR CEILING SYSTEM
- NEW 2'X4' ACT SUSPENDED SYSTEM, HUNG FROM STRUCTURE ABOVE
- AREA OF EXISTING CEILING SYSTEM TO REMAIN TO BE REMOVED/MODIFIED AND/OR REPLACED IN KIND TO ACCOMMODATE NEW WORK, VERIFY EXISTING CONDITIONS IN FIELD, REMOVE & REINSTALL LIGHT FIXTURES AS REQUIRED, COORDINATE WITH MECH AND ASBESTOS DWGS

# FLOOR PLAN KEYNOTES

| NO. | KEYNOTE |
|---|---|
| 1 | PATCH VCT FLOOR & FACE OF STAGE AS REQUIRED WHERE RAMP WAS REMOVED |
| 2 | INSTALL WHEELCHAIR LIFT & ANCHOR TO FLOOR AS PER SPECIFICATION |
| 3 | EXTEND PARTITION TO UNDERSIDE OF STRUCTURE, RE WALL EXTENSION DETAIL 3/BM-A102 |
| 4 | INFILL/INSTALL FIRE RATED WALL, PAINT AND ADD WALL BASE TO MATCH EXISTING, RE FINISH SCHEDULE |
| 5 | INSTALL NEW DOOR AND FRAME, PATCH & PAINT ADJACENT WALL AS REQUIRED, RE DOOR SCHEDULE |
| 6 | ADJUST/MODIFY DOOR CLOSER, RE DOOR SCHEDULE, REPLACE CEILING TILE TO MATCH ADJACENT |
| 7 | INSTALL ADA COMPLAINT DOOR PANIC HARDWARE |
| 8 | INSTALL NEW ACT CEILING & NEW LIGHT FIXTURES, RE ELEC DRAWINGS |
| 9 | REPLACE ACT CEILING TILE |
| 10 | INSTALL GYPSUM BOARD CEILING AND PAINT, RE FINISH LEGEND |
| 12 | INSTALL FIRE RATED INTERIOR WINDOW |
| 15 | PARGE SMOOTH WITH CEMENT/MORTAR OVER GLAZED WALL TILE OR CMU TO MAKE SMOOTH. RE FINISH SCHEDULE |
| 16 | PROVIDE NEW TOILET ACCESSORY, SEE ACCESSORY SCHEDULE & STANDARD MOUNTING HEIGHTS SHEET G-052 |
| 17 | INSTALL NEW WINDOW TREATMENT, V.I.F. WINDOW SIZE |
| 18 | INFILL FLOOR WITH CONCRETE AT PIPE TRENCHING, APPLY SELF-LEVELING & SMOOTH TO RECEIVE NEW FINISH, RE SPECS |
| 20 | PROVIDE NEW PLUMBING FIXTURE, RE PLUMBING DRAWINGS |
| 21 | PROVIDE NEW ELECTRICAL FIXTURE, RE ELECTIACL DRAWINGS |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Structural Engineer
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Saugerties, NY 12477
845.943.9601
www.clapperstructural.com

MEP Engineer
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Albany NY 12203
518.453.6091
www.sagellp.com

Environmental Engineer
Quest Environmental Solutions
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager
Jacobs
One Penn Plaza
24th Floor, Suite 2400
New York, NY 10119
646.908.6550
www.jacobs.com


REGISTERED ARCHITECT ARMANDO SAMUEL QUADRINI 022313 STATE OF NEW YORK

NUFSD BOND PROJECTS PH 4 - BARR MS

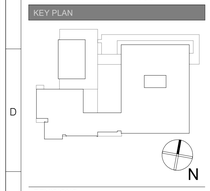
- SED#50-01-08-03-0-003-036 (NANUET HS)
- SED#50-01-08-03-0-004-021 (BARR MS)
- SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDUM #7 | 4/26/2024 |

**ISSUED:** BID SET ISSUANCE
**DATE:** 2/6/2024
**SCALE:** As indicated
**SHEET NAME:** ENLARGED 1ST & 2ND FLOOR RESTROOMS
**SHEET NUMBER:** BM-A401



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**BUILDING SUMMARY**

**Project Name:** Nanuet Bond Projects, Phase 4
**Address:** 143 Church St, Nanuet, NY 10954
**Usage:** Educational
**Owner Contact:** Rudolph Villanyi **Phone:** 845-627-9882
**Fire District:** Nanuet Fire District
**Fire Extinguishing System:** No **Type:** N/A

**Code Standards:**
Building Code of New York State (2020)
State Department of Education (SED) Manual of Planning Standards (2022)

**Building Information:** A. Mac Aurthur Barr Middle School

**Existing Building:**
**Year:** 1964 (Original), 2005(Addition 1)
**Construction Type:** IIB
Level 2 Alteration
**Occupany:** E - Educational
**Stories:** 2
**Existing Building Total Area:** 123,050 SF
**Fire Areas:** See Plans
**Room Use Designations:** See Plans
**Egress Information:** Not Required Per Scope of Project
**Rescue Windows:** Yes-Shown Per Area of Work
**Fire Resistive Requirements:** Table 601BCNYS
**Corridor Fire Resistance Rating:** Per MPS & 2020 BCNYS- 1 HOUR

**BUILDING CODE ANALYSIS NOTES:**
THE CURRENT SCOPE OF THE PROJECT:
1. DOES NOT INCREASE THE EXISTING OCCUPANCY
2. DOES NOT ALTER EXISTING EGRESS TRAVEL PATHS, DISTANCES OR WIDTHS

**LIFE SAFETY PLAN NOTES:**
1. REFER TO ELEC DWGS FOR FIRE ALARM AND EMERGENCY DEVICES

## OCCUPANT LOAD

| SPACE TYPE | SQFT | AREA/OCCPANT | CALCULATED OCCUPANCY |
|---|---|---|---|
| ACCESSORY/STORAGE/MECH | 8,279 | 300 SF | 28 |
| BUSINESS AREA | 3,361 | 150 SF | 22 |
| BUSINESS AREA - CONF ROOM | 238 | 15 SF | 16 |
| CLASSROOM | 33,380 | 20 SF | 1,669 |
| VOCATIONAL | 7,028 | 50 SF | 141 |
| KITCHEN | 1,968 | 200 SF | 10 |
| LOCKER ROOMS | 3,710 | 50 SF | 74 |
| GRAND TOTAL | | | 2,330 |

**NON-CONSECUTIVE OCCUPANCIES:**

| | | | |
|---|---|---|---|
| LIBRARY | 4,567 | 50 SF | 91 |
| CAFETERIA & STAGE | 4,210 | 15 SF | 281 |
| GYMNASIUM | 14,201 | 5 SF | 2,840 |

**EXISTING COMPLYING. EXISTING OCCUPANCY IS NOT INCREASED BY RENOVATIONS.**

**FIXTURE RATIOS:**

| | |
|---|---|
| WOMEN WC | 1:50 |
| MEN WC | 1:50 |
| MEN URINAL | 1:50 WITH 2/3 OF REQUIRED WC MAX CONVERTED TO URINALS |
| LAVATORIES | 1:50 |
| DRINKING FOUNTAINS | 1:100 |

## PLUMBING FIXTURE REQUIRED

| | | | WOMEN'S RESTROOM | | MEN'S RESTROOM | | |
|---|---|---|---|---|---|---|---|
| CALCULATED OCCUPANCY | NO. OF WOMEN | NO. OF MEN | WOMEN'S WC | WOMEN'S LAV | MEN'S WC | MEN'S URINALS | MEN'S LAV |
| 2,330 | 1,165 | 1,165 | 23 | 23 | 8 | 15 | 23 |

## PLUMBING FIXTURE EXISTING

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 30 | 23 | 13 | 25 | 22 |

## PLUMBING FIXTURE PROVIDED

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 31 | 24 | 14 | 20 | 22 |

**NON-CONSECUTIVE OCCUPANCIES:**

| | | |
|---|---|---|
| LIBRARY | 91 OCCU/65 | 2 (PROVIDED) |
| CAFETERIA & STAGE | 281 OCCU/65 | 5 (PROVIDED) |
| GYMNASIUM | 2,840 OCCU/65 | 44 (PROVIDED) |

## PLUMBING NOTES:

- THERE ARE EXISTING TO REMAIN 9 SINGLE USE WATERCLOSETS AND LAVATORIES
- THERE ARE EXISTING TO REMAIN 2 IN-OFFICE LOCKERROOM RESTROOMS

**RENOVATION OF THE EXISTING TOILET ROOMS ARE BASED ON THE REQUIRED FIXTURES QUANTITY IN THE TABLE ABOVE. ALL OTHER RESTROOMS IN THE BUILDING ARE NOT PART OF THE SCOPE OF RENOVATION.**

1

**Building Envelope Requirements ECNYS Table C402.1.3**
Energy Conservation Code of New York State
Climate Zone 5 (Rockland)

| | |
|---|---|
| Glazed Fenestration U-Factors: Table C402.4 | |
| Fixed Fenestration: | U-0.38 |
| Operable Fenestration: | U-0.45 |
| Entrance Doors: | U-0.77 |
| SHGC: | U-0.38 |
| Insulation Requirements: Table C402.1.3 | |
| **Roof** | |
| Insulation entirely above roof deck: | R30ci |
| Metal Building: | R19 + R11 LS |
| Attic and other: | R38 |
| **Walls (Above Grade)** | |
| Mass: | R11.4ci |
| Metal Building: | R13 + R13ci |
| Metal Framed: | R13 + R7.5ci |
| **Floors** | |
| Mass: | R10ci |
| Joist/Framing: | R30 |
| **Slab on Grade Floors** | |
| Unheated Slabs: | R10 for 24" below |
| **Opaque Doors** (Doors having less than 50% glass area) | |
| Swinging: | U-0.61 |

**Table C402.5.2 Maximum Air Leakage Rate for Fenestration Assemblies**

| | |
|---|---|
| Windows: | 0.20 CFM/FT2 |
| Swinging Doors: | 0.20 CFM/FT2 |
| Storefront Glazing: | 0.60 CFM/FT2 |
| Commercial Glazed Swinging Entrance Doors: | 1.00 CFM/FT2 |

***Building Code of New York State 2020***

**CHAPTER 7 FIRE-RESISTANCE-RATED CONSTRUCTION**

BC Table 705.8 (Maximum Area of Exterior Wall Openings):
In buildings equipped with automatic sprinkler system, maximum allowable areas of unprotected openings shall be the same as the tabulated limitations for protected openings. Unlimited unprotected openings are permitted in the exterior walls of the first floor above grade facing a street that have a fire separation distance of greater than 15'-0" or facing unoccupied space.
**Unlimited unprotected openings provided in exterior walls of 1st story above grade.**

| FIRE SEPARATION DISTANCE (FEET) | PERCENTAGE OF UNPROTECTED OPENING PERMITTED |
|---|---|
| 0 TO 3 | Not Permitted |
| 3 TO 5 | Not Permitted |
| 5 TO 10 | 10% |
| 10 TO 15 | 15% |
| 15 TO 20 | 25% |
| 20 TO 25 | 45% |
| 25 TO 30 | 70% |
| GREATER THAN 30 | No Limit- Provided |

BC SECTION 704.10 (Vertical Exposure):
Opening protectives having a fire-protection rating of not less than 3/4 hour shall be provided in every opening that is less than 15'-0" vertically above the roof of an adjoining building or adjacent structure that is within a horizontal fire separation distance of 15'-0" of the wall in which the opening is located.
EXCEPTION: Opening protectives are not required where the roof construction has a fire resistance rating of not less than 1 hour for a minimum distance of 10'-0" from the adjoining buildings and the entire length and span of the supporting elements for the fire-resistance rated roof assembly has a fire-resistance rating of not less than 1 hour.

BC SECTION 715.4.5 (Labeled Protective Assemblies):
Fire door assemblies shall be labeled by an approved agency.

BC SECTION 715.4.6 (Glazing Materials):
Fire-protection-rated glazing in fire doors located in fire walls shall be prohibited except that where serving as a horizontal exit, a self-closing swinging door shall be permitted to have a vision panel of not more than 100 SQ.IN. without a dimension exceeding 10 in.
Fire-protection-rated glazing shall not be installed in fire doors having a 90 minute fire protection rating intended for installation in fire barriers, unless the glazing is not more than 100 SQ. IN.

BC SECTION 715.4.7 (Door Closing):
Fire doors shall be self or automatic closing. Automatic closing fire doors provided. (Hold opens tied to fire alarm)

**CHAPTER 8 INTERIOR FINISHES**

SED S203-2 (Limitations of Use of Interior Finishes)
(S203-2A) Class A interior finishes shall be used in corridors and exits (exit enclosures, exit passageways, exterior exit stairs, exterior ramps and horizontal exits.) Class B is acceptable if these spaces have an approved NFPA sprinkler system.
(S203-2B) Interior finishes in school construction shall be Class A, B OR C per the code with the following exceptions:
1. Class C interior finishes shall not be used in school construction of more than three stories.
2. Class A or B interior finishes shall be used in the following locations: places of assembly and stages, except wainscots not over 8 feet above floor be may be Class C. Class C is acceptable if the space has an approved NFPA sprinkler system.

BC SECTION 803 (Wall and Ceiling Finishes):
Interior wall and ceiling finishes shall be classified in accordance with ASTM E84. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes:

| | | |
|---|---|---|
| CLASS A: | Flame spread 0-25 | Smoke-developed 0-450 |
| CLASS B: | Flame spread 26-75 | Smoke-developed 0-450 |
| CLASS C: | Flame spread 76-200 | Smoke-developed 0-450 |

BC SECTION 804 (Interior Floor Finish):
Interior floor finish and floor covering materials to be of class I or II materials shall be classified in accordance with NFPA 253. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows:
CLASS I 0.45 WATTS/CM2 OR GREATER
CLASS II 0.22 WATTS/CM2 OR GREATER

BC SECTION 808 (Acoustical Ceiling Systems):
Suspended acoustical ceiling systems shall be installed in accordance with the provisions of ASTM C635 and ASTM C636.
CHAPTER 10 MEANS OF EGRESS

BC SECTION 1003.2 (Ceiling Height):
The means of egress shall have a ceiling height of not less than 7'-6". Exceptions: stair headroom in accordance with section 1009.2.

BC SECTION 1003.3 (Protruding Objects):
Protruding objects are permitted to extend below the minimum ceiling height required provided minimum headroom of 6'-8" shall be provided for any walking surface, including corridors. Not more than 50% of the ceiling area of a means of egress shall be reduced in height by protruding objects.
(1003.3.3) Horizontal projections: structural elements, fixtures or furnishings shall not project horizontally from either side more than 4" over any walking surface between the heights of 2'-3" - 6'-8" above the walking surface.

BC SECTION 1003.6 (Means of Egress Continuity):
The path of egress travel along a means of egress shall not be interrupted by any building element other than a means of egress component. Obstructions shall not be placed in the required width of a means of egress except permitted projections. The required capacity of a means of egress system shall not be diminished along the path of egress travel.

BC SECTION 1004.3 (Posting of Occupant Load):
Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway.

BC SECTION 1005.2 (Door Encroachment):
Doors opening into the path of egress travel shall not reduce the required width to less than one-half during the course of the swing. When fully open, the door shall not project more than 7" into the required width.

SED S106-2A (Egress from Space of Pupil Occupancy):
All doors to corridors from spaces of pupil occupancy shall swing into the room unless fully recessed.

BC SECTION 1006.1 (Means of Egress Illumination- Required):
The means of egress, including the exit discharge, shall be illuminated at all times the building spaces served by the means of egress is occupied.

SED S106-1A (Egress):
There shall be at least two means of egress remote from each other leading from each floor of pupil occupancy. When a pupil enters into a corridor from a room of pupil occupancy, There shall be a choice of two unobstructed means of egress in different directions leading to different exits. 2 means of egress required per floor.

SED S106-2B (Egress from space of Pupil Occupancy):
Every space of pupil occupancy over 500 square feet in area, shall have two means of egress from the space, each into a separate smoke zone. The primary means of egress is commonly the opening of the corridor. The second means of egress may be a door into a separate smoke zone or to the exterior or a rescue window.

BC SECTION 1007.1 (Accessible Means of Egress Required):
Where more than one means of egress is required from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress. 2 accessible means of egress required per floor.

BC SECTION 1007.2 (Continuity and Components):
Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:
· Accessible route: provided.
· Stairways with vertical exit enclosures; provided.
· Elevators; provided.

CHAPTER 24 GLASS AND GLAZING

BC SECTION 2406.2 (Impact Test):
Where required by other sections of this code, glazing shall be tested in accordance with CPSC 16 CFR Part 1202. Glazing shall comply with the test criteria for Category II, unless otherwise indicated in Table 2406.2(1).

BC SECTION 2406.3 (Identification of Safety Glazing):
Except as indicated in Section 2406.3.1, each pane of safety glazing installed in hazardous locations shall be identified by a manufacturer's designation specifying who applied the designation, the manufacturer or installer and the safety glazing standard with which it complies, as well as the information specified in Section 2403.1. The designation shall be acid etched, sand blasted, ceramic fired, laser etches, embossed or of a type that once applied cannot be removed without being destroyed. A label meeting the requirements of this section shall be permitted in lieu of the manufacturer's designation.

BC SECTION 2406.4.6 (Glazing Adjacent to Stairways and Ramps):
Glazing where the bottom exposed edge of the glazing is less than 60 inches above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps shall be considered a hazardous location.

S104 EXITS S104-1 General
c. During construction of building additions (and alterations), the required exits in the existing building must be kept clear and maintained with Code required fire rated enclosures.

155.3.(c) Accident Protection.
(1) Glazing of panels and doors shall be with safety glazing materials as follows, unless glazed areas are protected by approved grilles, or rails:
(i) interior exit doors, exterior exit doors and immediately adjacent sidelights except where glazing is 48 inches or more above the floor;
(ii) all glazed panels where glazing is within 18-inches of the floor, or platform level of music room type risers;
(iii) gymnasiums and playrooms and elsewhere where subject to physical abuse;
(iv) acceptable safety glazing materials shall be at least one-quarter inch thick wire glass, one-quarter inch tempered (heat treated) glass, one-quarter inch laminated safety glass, or approved plastic materials.
(2) Glazed doors and sidelights within 6 feet of such doors shall be marked by appropriate means in accord with the provisions of Part 47 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York, except marking on door and/or sidelight is not required:
(i) where less than 80% of the area of the door or sidelight above a reference line 18 inches above the floor is glazed;
(ii) where width of sidelight is not more than 20 inches, with 1 3/4-inch minimum opaque stiles;
(iii) where floor treatment a distance of 3 feet out from a sidelight will deter approach;
(iv) where sidelights are supported on 18-inch minimum height opaque sill and wall construction;
(v) where sidelights are protected by approved 18-inch minimum height permanent barriers such as benches, planters, or guardrails, extending across at least two-thirds of the sidelight.

AERIAL SITE VIEW
N.T.S.
A1

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MEP Engineer
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Environmental Engineer
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646.908.6550
www.jacobs.com

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ARMAND SAMUEL QUADRINI
022313
STATE OF NEW YORK

NANUET

NUFSD BOND PROJECTS PH 4 - BARR MS

☐ SED#50-01-08-03-0-003-036 (NANUET HS)
■ SED#50-01-08-03-0-004-021 (BARR MS)
☐ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN

REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDUM #7 | 4/26/2024 |

**ISSUED:** BID SET ISSUANCE
**DATE:** 2/6/2024
**SCALE:** As indicated
**SHEET NAME:**
CODE COMPLIANCE
**SHEET NUMBER:**
BM-G021

PROJECT NUMBER: 2211003.00
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DRAWN BY: KSQ
CHECKED BY: KSQ
C:\Users\jmyers\Documents\R22_2111003.00-Nanuet Barr MS Phase4_jmyersK6A7X.rvt
4/30/2024 6:28:29 PM

# FINISH LEGEND

| SYMBOL | MATERIAL TYPE | MANUFACTURER | PATTERN / DESCRIPTION | COLOR | NOTES |
|---|---|---|---|---|---|
| ACT-1 | ACOUSTICAL CEILING TILE | ARMSTRONG | 2 X 4, LAY-IN, FINE FISURE | WHITE | |
| CPT-1 | CARPET | PATCRAFT | 2 X 2 TILE | NAVY BLUE | ALTERNATE 3 |
| LVT-1 | LUXURY VINYL TILE | AMTICO/MAPEI | ACTIVE LINES COLLECTION; BEND | TBD | ALTERNATE 3 |
| PL-1 | PLASTIC LAMINATE | WILSONART | CABINETS | KENSINGTON MAPLE | ALTERNATE 3 |
| PL-2 | PLASTIC LAMINATE | WILSONART | COUNTER TOP | WOOLAMAI BRUSH | ALTERNATE 3 |
| PT-1 | PAINT | SHERWIN WILLIAMS | EGGSHELL | INCREDIBLE WHITE 7028 | FIELD PAINT FOR GYP. WALLS AND CEILINGS |
| PT-3 | PAINT | SHERWIN WILLIAMS | ACRYLIC | INCREDIBLE WHITE 7028 | ALT 3 FEILD PT FOR FRP WALLS |
| PT-4 | PAINT | SHERWIN WILLIAMS | ACRYLIC | COLOR TBD | ALT 3 ACCENT PT FOR FRP WALLS |
| PT-5 | PAINT | SHERWIN WILLIAMS | MATTE | COLOR TO MATCH EXIST. | |
| VCT -1 | VINYL COLOR TILE | TARKETT | SIZE TOMSTCH EXISTING | COLOR TO MATCH EXIST. | |
| WB-1 | WALL BASE- RUBBER | TARKETT | 4" COVE BASE | COLOR TO MATCH EXIST. | FOR PATCHING & NEW CHASE WALLS |
| WB-2 | WALL BASE - RUBBER | TARKETT | 4" COVE BASE | 168 THUNDER | ALT ERNATE 3 |

# DOOR SCHEDULE ALTERNATE

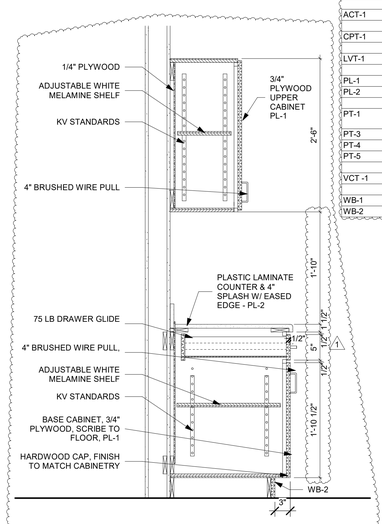
| DOOR NO. | ROOM NAME | PAIR | DOOR SIZE TYPE | WIDTH | HEIGHT | THICKNESS | MATERIAL | GLASS TYPE | FRAME FINISH | TYPE | MATERIAL | FINISH | FIRE RATING | HARDWARE GROUP | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 516 | CONFERENCE | NO | | 2'-8 1/4" | 7'-0" | 1/2" | Glass | G2 | NA | | ALUM | PRE-FINISHED | | 5 | ALTERNATE 01 |
| 517 | OFFICE 124C | NO | | 2'-8 1/4" | 7'-0" | 1/2" | Glass | G2 | NA | | ALUM | PRE-FINISHED | | 5 | ALTERNATE 01 |
| 519 | OFFICE 122A | NO | | 2'-6" | 7'-0" | 1 3/4" | SOLID CORE WOOD | | STAIN | | HM | PAINT | | 5 | ALTERNATE 01 |

# FLOOR PLAN NOTES:

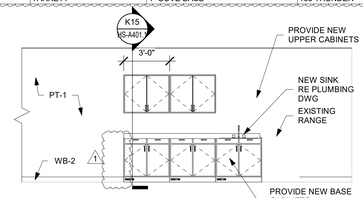
1. FLASH PATCH CONCRETE FLOOR AND PROVIDE SELF LEVELING PRIOR TO INSTALLATION OF NEW FLOORING. REFER TO FINISH SCHEDULE. SEE SLEF LEVELING SPECIFICATION
2. PATCH ALL CMU WALLS AND PAINT THROUGHOUT CLASSROOMS, MATCH ADJACENT TEXTURE. REFER TO FINISH SCHEDULE.
3. SCRAPE AND REPAINT ALL DOOR FRAMES SHOWN ON PLAN UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE.
4. REFER TO G-041 FOR WALL TYPES
5. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD.
6. INTERIOR WALL DIMENSIONS ARE MEASURED FROM FINISH FACE OF GYP BOARD, CMU OR PLASTER U.N.O.
7. ALL EXISTING WALLS WHERE EXISTING DUCTWORK/PIPING HAS BEEN REMOVED, SHALL BE PATCHED WITH SAME SIZE BLOCK IN COURSING READY FOR FINISH AS SCHEDULED UNLESS NOTED OTHERWISE. SEE MEP DRAWINGS FOR EXTENT OF REMOVALS.
8. IN AREAS WHERE EXISTING CMU WALLS WERE REMOVED AND WERE PERPENDICULAR TO CMU WALLS THAT REMAIN - THE REMAINING CMU WALL SHALL BE PATCHED AS REQUIRED WITH MORTAR AND JOINT LINES SHALL BE STRIKED. INFILL BLOCK AS REQUIRED FOR STRUCTURAL INTEGRITY OF CMU TO REMAIN. READY WALL FOR FINISH PER SCHEDULE.
9. PATCH AND FINISH WALL, FLOOR AND WALL BASE AT MECHANICAL UNIT WORK AREAS. PROVIDE NEW FLOORING TO MATCH ADJACENT FLOORING WHERE REQUIRED. PATCH OR FLOAT EXISTING CONCRETE IF NECESSARY.
10. REUSE OF SALVAGED MATERIALS. NOT SPECIFICALLY SCHEDULED, WILL BE AT THE SOLE DISCRETION OF THE OWNER. IN NO CASE SHALL SALVAGED MATERIALS BE INCORPORATED IN THE WORK THAT DO NOT MEET MINIMUM REQUIREMENTS OF STATE AND LOCAL CODES AND REGULATIONS.
11. PATCH/REPAIR/REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK AND MATCH/ALIGN WITH EXISTING ADJACENT SURFACES SCHEDULED TO REMAIN. PREP SURFACES TO RECEIVE ALL LABOR AND MATERIALS REQUIRED TO RENDER SUBSTRATES ACCEPTABLE TO RECEIVE NEW FINISHES SPECIFIED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS.
12. ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATINGS OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
13. ALL ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT SHOULD NOT BE ATTACHED TO OR HUNG FROM EXISTING I BEAMS. MOUNT TO EXISTING CONCRETE DECK OR EXISTING BAR JOISTS. REFER TO ABATEMENT DWGS.

# ALTERNATE #1 FINISH LEGEND

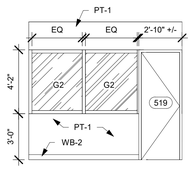
| | | |
|---|---|---|
| | G2 | LAMINATED SAFETY GLASS |
| | CPT-1 | CARPET TILE |
| | LVT-1 | LUXURY VINYL FLOOR TILE |
| PT-X | WALL FINISH | |
| WB-X | BASE FINISH | |
| CPT-X | FLOOR FINISH | |



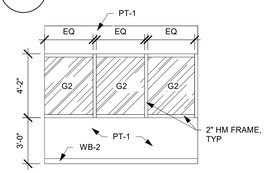

MILLWORK K15
1" = 1'-0"



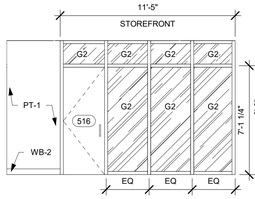

LOUNGE ELEV L12
1/4" = 1'-0"



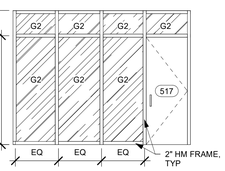

OFFICE ELEV 2 J13
1/4" = 1'-0"



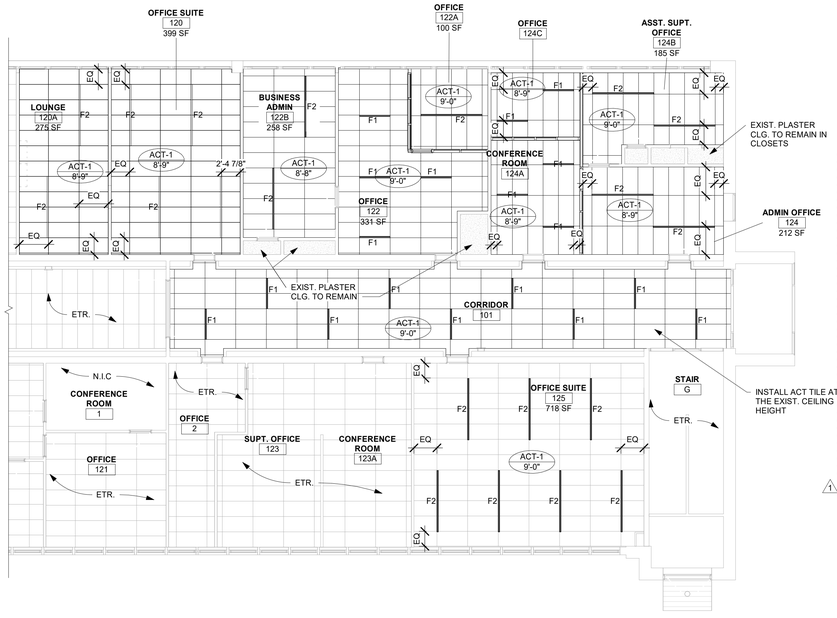

OFFICE ELEV 1 J11
1/4" = 1'-0"



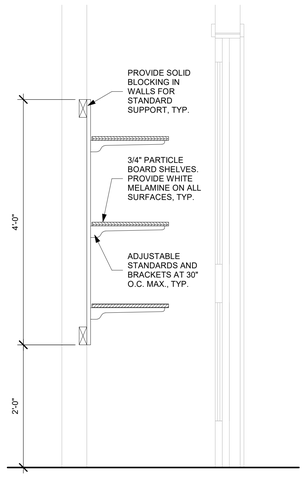

CONF RM ELEV 2 G13
1/4" = 1'-0"



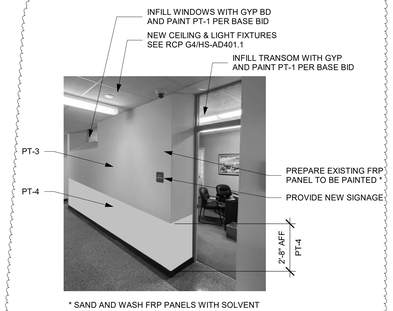

CONF RM ELEV 1 G11
1/4" = 1'-0"




FIRST FLOOR ELARGED RCP - WEST (ADMIN) WING ALT #1 G4
1/8" = 1'-0"

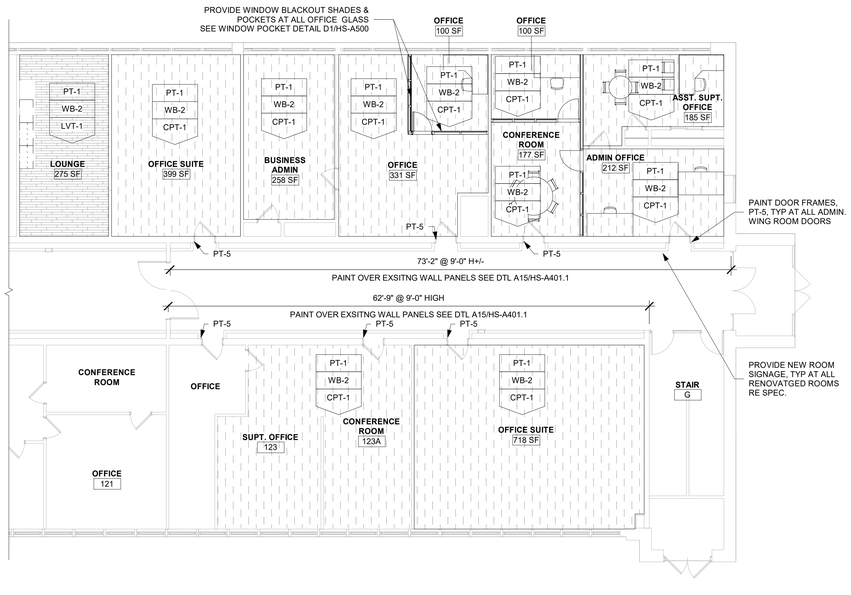



ADJUSTABLE SHELVES E15
1" = 1'-0"

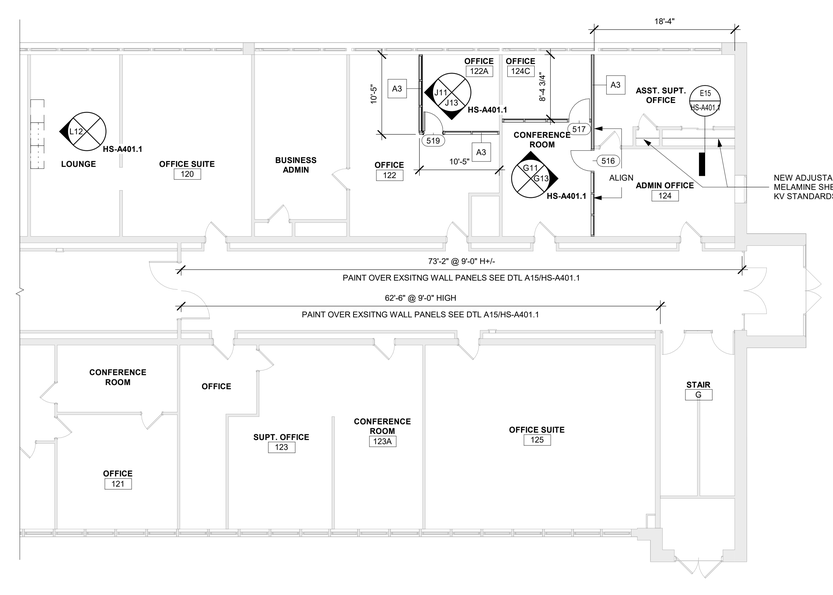



* SAND AND WASH FRP PANELS WITH SOLVENT BASED CLEANER PRIOR TO PAINTING

ADMIN CORRIDOR ALTERNATE A15
N.T.S.




FIRST FLOOR ENLARGED FINISH PLAN - WEST (ADMIN) WING ALT #1 A8
1/8" = 1'-0"




FIRST FLOOR ENLARGED PLAN - WEST (ADMIN) WING ALTERNATE #1 A1
1/8" = 1'-0"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REGISTERED ARCHITECT ARMAND SAMUEL QUADRINI 022313 STATE OF NEW YORK

EXPIRATION DATE: 3/31/2025

NANUET

NUFSD BOND PROJECTS PH 4 - NANUET HS

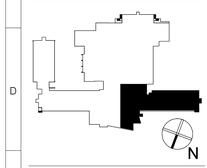
■ SED#50-01-08-03-0-003-036 (NANUET HS)
□ SED#50-01-08-03-0-004-021 (BARR MS)
□ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDUM #7 | 4/23/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** 2/6/24

**SCALE:** As indicated

**SHEET NAME:** FIRST FLOOR ENLARGED PLAN - WEST (ADMIN) WING - ALTERNATE 1

**SHEET NUMBER:** HS-A401.1

ISSUE FOR BID SET


PROJECT NUMBER: 2211003.00 COPYRIGHT © 2023 KSQ ARCHITECTS, PC

KEYED NOTES:

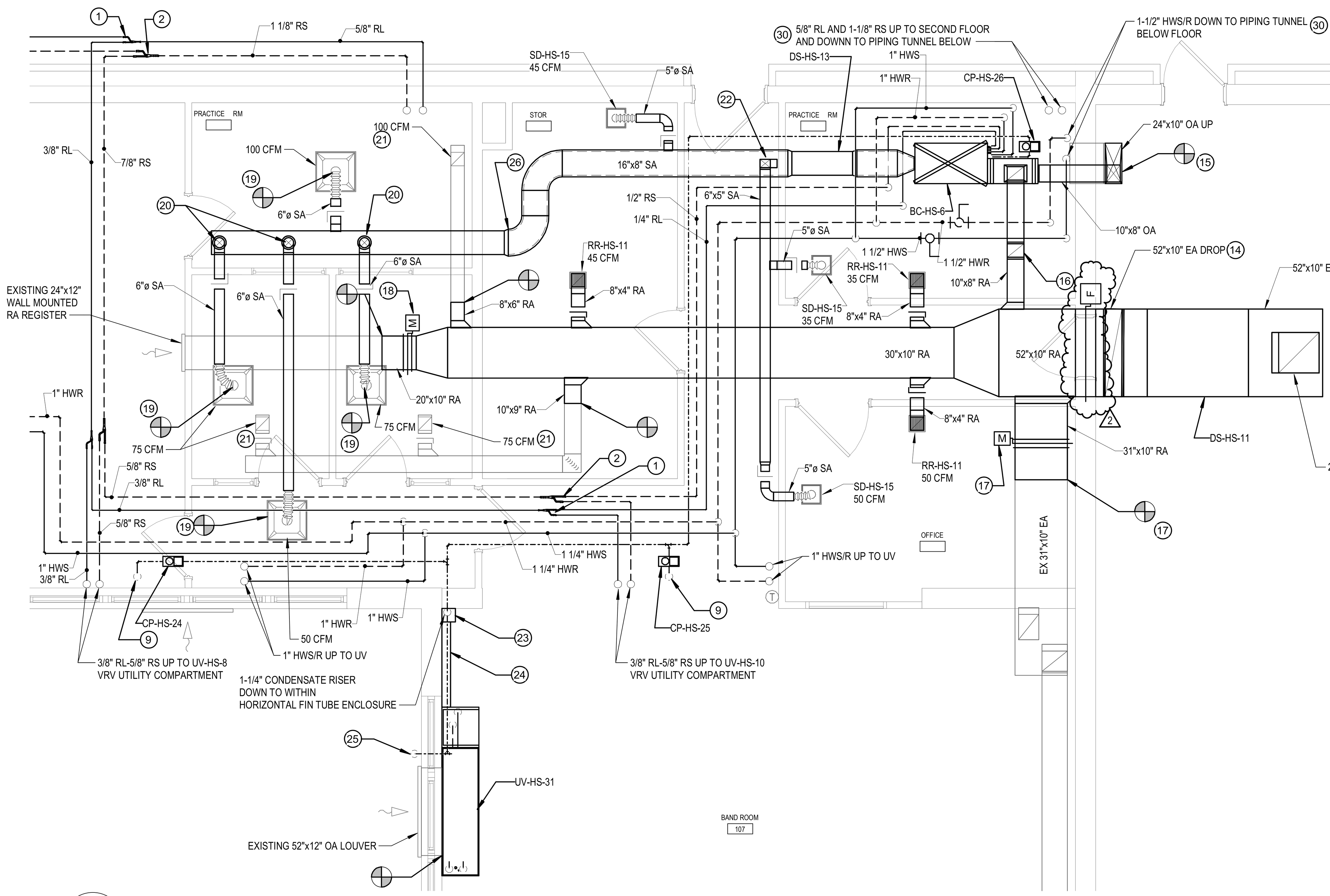
1. TYPICAL REFRIGERANT LIQUID BRANCH CONNECTOR 'Y' FITTING JOINT.
2. TYPICAL RERIGERANT SUCTION BRANCH CONNECTOR 'Y' FITTING JOINT.
3. PROVIDE UL-207 LISTED EXPANSION LOOP FOR THE 3/8" REFRIGERANT LIQUID AND 5/8" REFRIGERANT SUCTION LINES AT LOCATION SHOWN. THE 3/8" LOOP SHALL BE 28-1/2" LONG x 17-1/2" HIGH. THE 5/8" LOOP SHALL BE 28-1/2" LONG x 19-3/4" WIDE. PROVIDE PIPE GUIDES ON EITHER SIDE OF LOOP AND PIPE ANCHORS AT END OF PIPING RUNS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL REFRIGERANT MAINS AT DIFFERENT ELEVATIONS TO ALLOW LOOPS TO AVOID CONFLICT WITHIN CEILING PLENUM.
4. TERMINATE 16"x5" RA DUCT FROM RA REGISTER OPEN-ENDED ABOVE SUSPENDED CEILING SYSTEM WITH 1/4" WIRE MESH SCREEN.
5. PROVIDE 90 DEGREE ELBOW LOCATED ABOVE SUSPENDED CEILING SYSTEM FOLLOWING 24"x6" EA FLOOR PENETRATION. TERMINATE DUCT OPEN-ENDED W/ 1/4" WIRE MESH SCREEN AT INLET OF ELBOW.
6. NOT USED
7. PROVIDE 10"x4" (EXTERNAL DIMENSION) INTERNALLY LINED TRANSFER DUCTWORK BETWEEN SPACES AT LOCATIONS SHOWN. PROVIDE SURFACE MOUNTED TRANSFER REGISTERS TG-HS-1 WITHIN SUSPENDED CEILING SYSTEM IN EACH OFFICE TO CONNECT TRANSFER DUCT BETWEEN SPACES. DUCTWORK LINING THICKNESS SHALL BE 1/2".
8. ROUTE 1-1/4" CONDENSATE TO EXISTING 1-1/2" DRAINAGE WASTE RISER LOCATED WITHIN EXISTING WALL PARTITION. PROVIDE A WYE FITTING CONNECTION TO THE RISER WITH A P-TRAP AND ELBOW FACING UP AND ROUTE THE 1-1/4" CONDENSATE PIPING OPEN-ENDED TO ABOVE THE SANITARY INLET PIPING UPSTREAM OF THE P-TRAP.
9. PROVIDE 1" CONDENSATE RISER UP TO UV DRAIN PAN OUTLET ON 2ND FLOOR.
10. PROVIDE 12"x4" (EXTERNAL DIMENSION) INTERNALLY LINED TRANSFER DUCTWORK BETWEEN SPACES AT LOCATIONS SHOWN. PROVIDE SURFACE MOUNTED TRANSFER REGISTERS TG-HS-2 WITHIN SUSPENDED CEILING SYSTEM IN EACH OFFICE TO CONNECT TRANSFER DUCT BETWEEN SPACES. DUCTWORK LINING THICKNESS SHALL BE 1/2".

KEYED NOTES (CONTINUED):

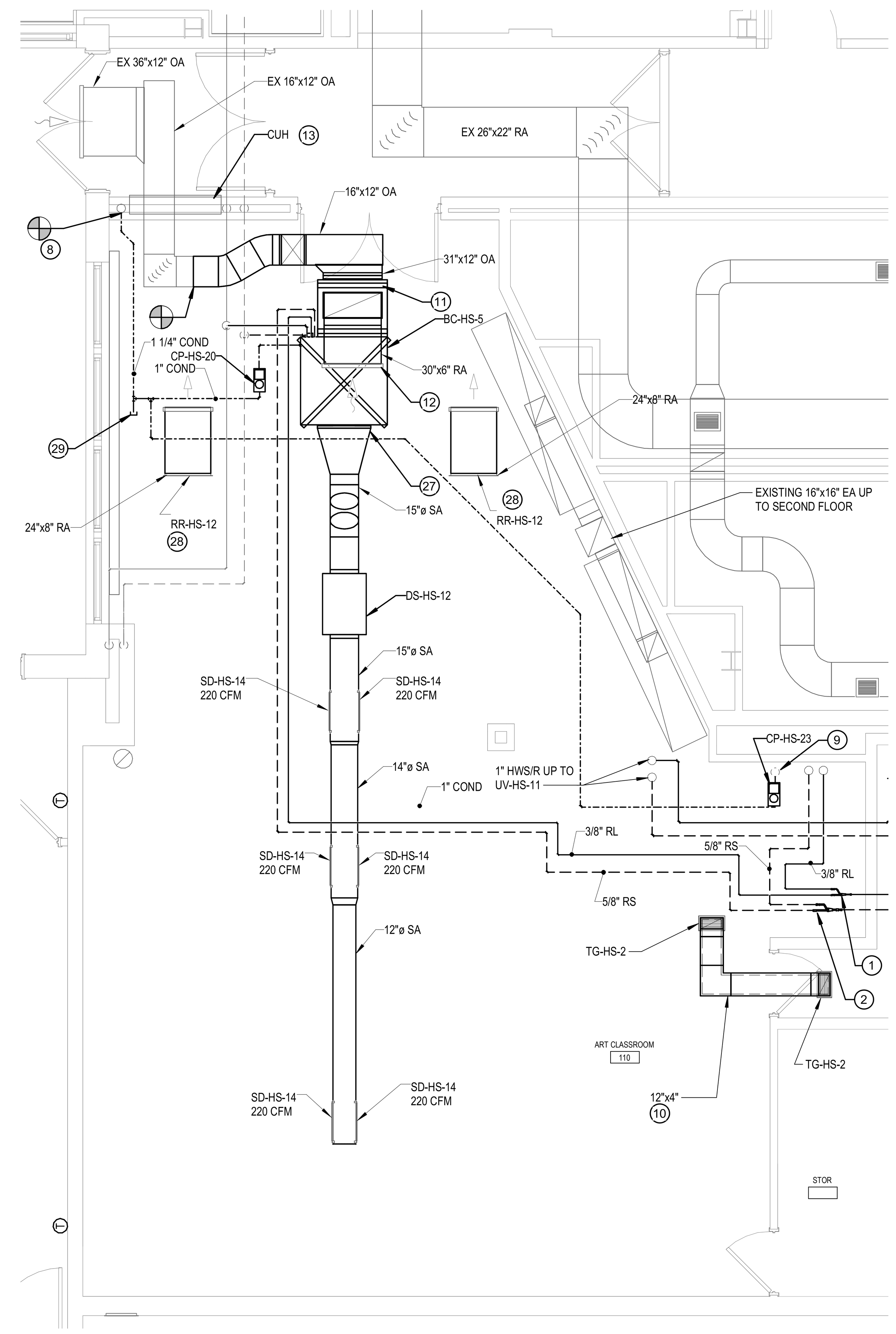
11. PROVIDE 31"x13" OA DUCT CONNECTION TO REAR MIXING BOX INLET ON BLOWER COIL BC-HS-5.
12. PROVIDE CONNECTION TO TOP RA INLET ON BLOWER COIL BC-HS-5 MIXING BOX AND PROVIDE A TRANSITION ELBOW TO A 30"x6" RA DUCT SIZE. PROVIDE A 1/4" WIRE MESH SCREEN OVER THE OPEN-ENDED RA INLET MOUNTED ABOVE THE BLOWER COIL.
13. PROVIDE DDC SYSTEM SPACE SENSOR LOCATED IN RA INLET OF EXISTING RECESS CABINET UNIT HEATER AT LOCATION SHOWN TO REPLACE REMOVED PNEUMATIC THERMOSTAT. TIE CONTROL OF SENSOR TO DDC SYSTEM FORDABINET UNIT HEATER FAN ON/OFF OPERATION.
14. PROVIDE EA DROP DOWN TO JUST ABOVE REAR STAGE DOOR AND PENETRATE ABOVE DOOR AS SHOWN. AT TOP OF EA RISER CROSS OVER BELOW STAGE ROOF TO EA RISER UP TO F-HS-32. STAGE TO ROOF HEIGHT IS APPROXIMATELY 30-FEET. PAINT ALL NEW, EXPOSED DUCTWORK AT THE STAGE LEVEL FLAT BLACK. REFER TO SPECIFICATION SECTION 099100 FOR PAINT REQUIREMENTS.
15. CONNECT TO EXISTING 24"x10" OA RISER LOCATED AT REAR AUDITORIUM STAGE AND TRANSITION TO A 10"x8" OA RISER IN THE VERTICAL DUCT DROP, THEN PROVIDE A 10"x8" OA DUCT PENETRATION THROUGH THE REAR STAGE WALL AND CONNECT TO THE REAR, OA INLET CONNECTION ON THE MIXING BOX FOR BLOWER COIL BC-HS-6. PAINT ALL NEW, EXPOSED DUCTWORK AT THE STAGE LEVEL FLAT BLACK. REFER TO SPECIFICATION SECTION 099100 FOR PAINT REQUIREMENTS.
16. PROVIDE 10"x8" RA RISER UP TO WITHIN JOIST CAVITY SPACING, THEN ROUTE TO TOP RA INLET ON BLOWER COIL BC-HS-6 MIXING BOX.
17. PROVIDE MOTORIZED DAMPER WITHIN 31"x10" EA DUCT BRANCH SERVING BAND ROOM 107. DAMPER SHALL BE TIED TO DDC SYSTEM AND SHALL BE OPEN WHEN UV-HS-31/UV-HS-32 OA DAMPERS ARE OPEN IN MINIMUM POSITION OR ECONOMIZER POSITION. EA MOTORIZED DAMPER SHALL BE CLOSED WHEN UV-HS-31/UV-HS-32 OA DAMPERS ARE CLOSED.
18. PROVIDE MOTORIZED DAMPER WITHIN 24"x10" EA DUCT BRANCH SERVING MUSIC ROOM 105. DAMPER SHALL BE TIED TO DDC SYSTEM AND SHALL BE OPEN WHEN UV-HS-28/UV-HS-29 OA DAMPERS ARE OPEN IN MINIMUM POSITION OR ECONOMIZER POSITION. EA MOTORIZED DAMPER SHALL BE CLOSED WHEN UV-HS-28/UV-HS-29 OA DAMPERS ARE CLOSED.
19. PROVIDE 6" ROUND FLEXIBLE DUCT CONNECTION TO EXISTING SA DIFFUSER AT CONNECTION POINT SHOWN. BALANCE SA THROUGH DIFFUSER TO AIRFLOW AMOUNT LISTED WITH BLOWER COIL BC-HS-6 OPERATING.

KEYED NOTES (CONTINUED):

20. PROVIDE TOP TAP OFF HORIZONTAL SA BRANCH AT LOCATION SHOWN AND ROUTE 6" ROUND SA DUCTWORK OVER EA DUCTWORK IN BETWEEN JOIST CAVITY SPACE.
21. REBALANCE RETURN AIRFLOW THROUGH EXISTING RA REGISTERS TO AIRFLOW AMOUNT LISTED WITH BLOWER COIL BC-HS-6 OPERATING IN 100% RETURN AIR MODE (OUTSIDE AIR DAMPER CLOSED). UTILIZE EXISTING IN-DUCT VOLUME DAMPERS WITHIN RA DUCT BRANCHES AS REQUIRED TO BALANCE AIRFLOW.
22. PROVIDE TOP TAP OFF HORIZONTAL SA BRANCH AT LOCATION SHOWN AND ROUTE 6"x5" SA DUCTWORK OVER EA DUCTWORK IN BETWEEN JOIST CAVITY SPACE BELOW FLOOR DECK ABOVE.
23. PROVIDE 8" WIDE x 8" DEEP x 10-FEET HIGH VERTICAL PIPE ENCLOSURE AT LOCATION SHOWN TO CONCEAL 1-1/4" CONDENSATE DRAIN RISER.
24. PROVIDE 5" DEEPx18" HIGH FIN TUBE COVER AND CONCEAL CONDENSATE PIPING WITHIN FIN TUBE COVER. MOUNT TOP OF FIN TUBE COVER EVEN WITH TOP OF UNIT VENTILATOR.
25. ROUTE 1-1/4" COMBINED CONDENSATE DRAIN PIPING FROM FIRST FLOOR UV DRAIN PAN OUTLET AND CONDENSATE FROM SECOND FLOOR UV DRAIN PAN(S) OUT THROUGH EXTERIOR WALL. TERMINATE PIPING WITH MITER CUT ELBOW FACING GRADE LEVEL AND PITCH PIPING TOWARDS THE EXTERIOR WALL PENETRATION AS REQUIRED.
26. PROVIDE 1" THICK INTERNAL DUCT LINER ON SUPPLY DUCTWORK AT OUTLET OF BLOWER COIL BC-HS-6 BETWEEN SUPPLY OUTLET OF BLOWER COIL AND END POINT TAGGED AT LOCATION SHOWN.
27. PROVIDE 28"x12" SUPPLY AIR PLENUM AT OUTLET OF BLOWER COIL BC-HS-5. PROVIDE CONNECTIONS FROM TWO OUTLET LOCATIONS ON BLOWER COIL TO SUPPLY PLENUM, THEN TRANSITION TO ROUND SPIRAL DUCTWORK AS SHOWN. TRANSITION THE 15" ROUND SPIRAL SA DUCTWORK DOWN TO BELOW THE CEILING AND ROUTE THE SA DUCTWORK EXPOSED BELOW THE SUSPENDED CEILING SYSTEM.
28. PROVIDE SURFACE MOUNTED RA REGISTER MOUNTED TO VERTICAL FACE OF BLOWER COIL SOFFIT. EXTEND 24"x8" RA DUCTWORK INTO SOFFIT AREA AND TERMINATE DUCTS OPEN-ENDED WITH 1/4" GALVANIZED WIRE MESH SCREEN.
29. PROVIDE CONDENSATE CLEANOUT PLUG AT LOCATION SHOWN.
30. PROVIDE PVC JACKETING OVER EXPOSED, INSULATED HWS/R, RS-RL AND CONDENSATE DRAIN PIPING LOCATED WITHIN PRACTICE ROOM HOUSING BLOWER COIL BC-HS-6.
31. ROUTE 1-1/4" CONDENSATE PIPING EXPOSED DOWN TO EXISTING SINK P-TRAP LEVEL. DISCONNECT AND REMOVE SINK DRAIN TAILPIECE AND PROVIDE A DISHWASHER TAILPIECE WITHIN THE SINK VERTICAL DRAIN PIPING. PROVIDE AN ELBOW FACING UP AT THE INLET TO THE TAILPIECE. CONNECT THE 1-1/4" CONDENSATE DRAIN PIPING TO THE ELBOW INLET OPENING ON THE TAILPIECE WITH AN AIR GAP CONNECTION.

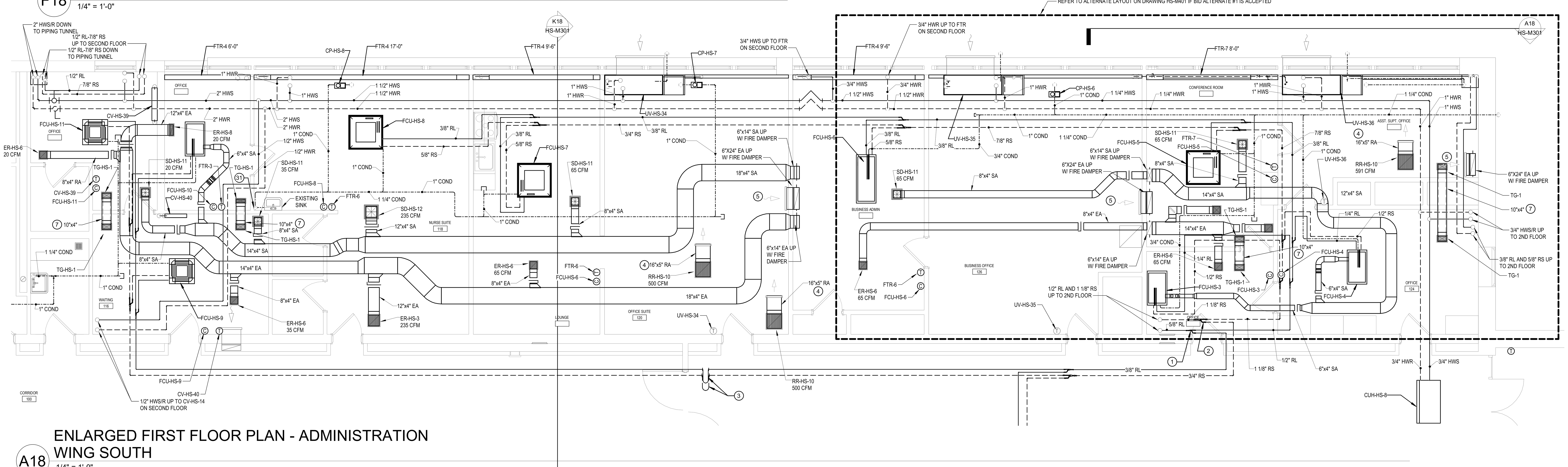



F18 ENLARGED MUSIC SUITE HVAC PLAN
1/4" = 1'-0"




G6 ENLARGED ART CLASSROOM 110 HVAC PLAN
1/4" = 1'-0"

REFER TO ALTERNATE LAYOUT ON DRAWING HS-M401 IF BID ALTERNATE #1 IS ACCEPTED




A18 ENLARGED FIRST FLOOR PLAN - ADMINISTRATION WING SOUTH
1/4" = 1'-0"

DRAWN BY: Author
CHECKED BY: Checker
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5/1/2024 9:37:57 AM

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STATE OF NEW YORK — JOHN VENDITTE — LICENSED PROFESSIONAL ENGINEER — 083994
REGISTRATION EXPIRES: 11/30/2026

NANUET

# NUFSD BOND PROJECTS PH 4 - NANUET HS

- ■ SED#50-01-08-03-0-003-036 (NANUET HS)
- □ SED#50-01-08-03-0-004-021 (BARR MS)
- □ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN

REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #1 | 03/19/24 |
| 2 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE
**DATE:** FEB 6, 2024
**SCALE:** 1/4" = 1'-0"
**SHEET NAME:** ENLARGED VIEWS
**SHEET NUMBER:** HS-M302

ISSUE FOR BID SET

PROJECT NUMBER: 2211003.00

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## ABBREVIATIONS: (SOME MAY NOT BE USED)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | AMP | DSP | GARBAGE DISPOSAL | HH | HAND HOLE | NEC | NATIONAL ELECTRIC CODE | SF | SQUARE FOOT |
| AC | ABOVE COUNTER | DW | DISHWASHER | HOA | HAND-OFF-AUTO SWITCH | NL | NIGHT LIGHT | SFL | SUB-FEED LUGS |
| ACC | AIR COOLED CONDENSING UNIT | DWG | DRAWING | HP | HORSEPOWER | NO/NC | NORMALLY OPEN/NORMALLY CLOSED | SH | SHIELDED |
| ACP | ACCESS CONTROL PANEL | EC | ELECTRICAL CONTRACTOR | HVAC | HEATING, VENTILATION AND/OR AIR CONDITIONING | OEM | ORIGINAL EQUIPMENT MANUFACTURER | SM | SINGLE MODE FIBER OPTIC CABLE |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | ECB | ENCLOSED CIRCUIT BREAKER | IG | ISOLATED GROUND | OL'S | THERMAL OVERLOAD UNITS | SPD | SURGE PROTECTION DEVICE |
| AFF | ABOVE FINISHED FLOOR | EM | EMERGENCY | IN | INCHES | P | POLE | SR | SURFACE RACEWAY |
| AFG | ABOVE FINISHED GRADE | EMT | ELECTRICAL METALLIC TUBING | INT | INTERNAL | PC | PHOTOCELL | SWGR | SWITCHGEAR |
| AHU | AIR HANDLING UNIT | ELU | EMERGENCY LIGHTING UNIT | IT | INFORMATION TECHNOLOGIES | PE | PHOTO EYE | TBB | TELEPHONE BACKBOARD |
| AWG | AMERICAN WIRE GAGE | ES | ELECTRIC STRIKE | JB | JUNCTION BOX | PH | PHASE | TSP | TWISTED SHIELDED PAIR |
| BFG | BELOW FINISHED GRADE | EXR | EXISTING TO REMAIN | K | KILO | PIV | POST INDICATING VALVE | TW | TWISTED |
| BLDG | BUILDING | FA | FIRE ALARM | KVA | KILO-VOLT AMPERE | POE | POWER OVER ETHERNET | TYP | TYPICAL |
| BTU | BRITISH THERMAL UNITS | FAAP | FIRE ALARM ANNUNCIATOR PANEL | KW | KILOWATT | PR | PAIR | UG | UNDERGROUND |
| C | CONDUIT | FACP | FIRE ALARM CONTROL PANEL | LBS | POUNDS | PVC | POLYVINYL CHLORIDE | UGE | UNDERGROUND ELECTRIC |
| CAT | CATEGORY | FTC | FIBER OPTIC CABLE CROSS CONNECT CABINET | LV | LOW VOLTAGE | RAF | RETURN AIR FAN | UGT | UNDERGROUND TELECOMMUNICATION |
| CB | CIRCUIT BREAKER | FLA | FULL LOAD AMPS | MAX | MAXIMUM | RECEPT | RECEPTACLE | UH | UNIT HEATER |
| CFM | CUBIC FEET PER MINUTE | FLR | FLOOR | MC | METAL CLAD CABLE | RVCC | REMOTE VOICE COMMAND CENTER | UON | UNLESS OTHERWISE NOTED |
| CKT | CIRCUIT | FT | FEET | MCB | MAIN CIRCUIT BREAKER | REL | RELOCATE | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| COMM | COMMUNICATION | FTL | FEED-THRU LUGS | MDP | MAIN DISTRIBUTION PANEL | REM | REMOVE | UTP | UNSHIELDED TWISTED PAIR |
| CONT. | CONTINUED | FVNR | FULL VOLTAGE NON-REVERSING | MH | MOUNTING HEIGHT | REP | REPLACE | V | VOLT |
| CT | CURRENT TRANSFORMER | G | GROUND | MIN | MINIMUM | RGS | RIGID GALVANIZED STEEL | W | WATT |
| CU | COPPER | GC | GENERAL CONTRACTOR | MLO | MAIN LUGS ONLY | RPM | REVOLUTIONS PER MINUTE | WH | WATER HEATER |
| CUH | CABINET UNIT HEATER | GFI | GROUND FAULT CIRCUIT INTERRUPTER | MM | MULTIMODE FIBER OPTIC CABLE | SAF | SUPPLY AIR FAN | WI | WITH |
| CVT | CONTROL VOLTAGE TRANSFORMER | GPM | GALLONS PER MINUTE | MS | MOTOR STARTER | SCH | SCHEDULE | WP | WEATHERPROOF |
| DDC | DIRECT DIGITAL CONTROL | H | HEIGHT | MTG | MOUNTING | SER | SERVICE ENTRANCE RATED | XFMR | TRANSFORMER |
| DLC | DESIGN LIGHTS CONSORTIUM | HC | HANDICAP ACCESSIBLE | | | | | | |

## SYMBOLS LEGEND:

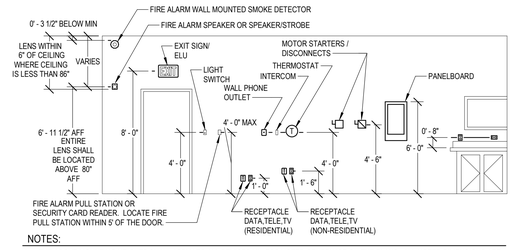
- SURFACE MOUNTED PANEL
- RECESSED PANEL
- (J) OR [J] JUNCTION BOX
- HOME RUN TO PANEL. 2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED. PROVIDE SEPARATE GROUND AND NEUTRAL FOR EACH BRANCH CIRCUIT.
  X-Z, Y 'X'-INDICATES PANEL
  'Z, Y'-INDICATES CIRCUIT NUMBERS
- CIRCUIT CONTINUATION WITH 'Y' INDICATING DEVICE OR AREA DESCRIPTION
  X-Z, Y 'X'-INDICATES PANEL
  'Z, Y'-INDICATES CIRCUIT NUMBERS
- CIRCUIT CONSISTING OF GROUND, NEUTRAL AND PHASE CONDUCTORS. ADDITIONAL SLASH MARKS INDICATE SWITCHING OR TRAVELER CONDUCTORS, AND A LONG SOLID LINE INDICATES NEUTRAL. A SEPARATE GREEN GROUND CONDUCTOR SHALL BE PLACED IN ALL NEW CIRCUITS
- CONNECTION POINT
- CAPPED CONDUIT
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP
- LINE TYPE SHOWING WIRING BETWEEN LOW VOLTAGE DEVICES
- $ SINGLE POLE SWITCH, 20 AMP 120/277 UNLESS NOTED OTHERWISE
  'PRV'-INDICATES FAN CONTROL SWITCH
  'P'-INDICATES PILOT LIGHT
  'MS'-INDICATES 1HP RATED GENERAL USE 'SNAP SWITCH'
  '3MS'-INDICATES 3 POLE 600 VOLT 30 AMP 3HP RATED MANUAL MOTOR CONTROLLER WITH LOCKABLE HASP
  'WP'-INDICATES WEATHER PROOF
  '3' INDICATES THREE WAY SWITCH
  '4' INDICATES FOUR WAY SWITCH
  'K' INDICATES KEYED SWITCH
  'LV' INDICATES LOW VOLTAGE MOMENTARY SWITCH
  'LVF'-INDICATES LOW VOLTAGE MULTIFUNCTION DIMMING SWITCH, 6-BUTTON
  'VS' INDICATES VACANCY SENSOR SWITCH
  'VS2' INDICATES 2 POLE WALL MOUNTED VACANCY SENSOR SWITCH
  'D' INDICATES DIMMER SWITCH
  'LVD'-INDICATES LOW VOLTAGE MULTIFUNCTION DIMMING SWITCH
  'VSD' INDICATES DIMMING VACANCY SENSOR SWITCH
  'SP'-INDICATES SPEAKER CONTROL
- NEMA 1 NON-FUSED DISCONNECT UON
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
- NEMA 1 FUSED DISCONNECT UON
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
  'ZZ'- FUSE SIZE
- COMBINATION MOTOR STARTER, SIZE AS INDICATED
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
  'ZZ'- FUSE SIZE
  'NF'- NON-FUSED
- VFD VARIABLE FREQUENCY DRIVE, HP AS INDICATED
- VFD COMBINATION NON-FUSED DISCONNECT VARIABLE FREQUENCY DRIVE. HP AS INDICATED
- DUPLEX RECEPTACLE,
  'GFI'-INDICATES GROUND FAULT CIRCUIT INTERRUPTER
  'AFI'-INDICATES ARC FAULT CIRCUIT INTERRUPTER
  'WP'-WEATHER-PROOF
  'AC'-INDICATES ABOVE COUNTER, VERIFY HEIGHT
  'SR'-INDICATES SURFACE RACEWAY
- ABOVE COUNTER GFI DUPLEX RECEPTACLE, VERIFY HEIGHT
- QUADRAPLEX RECEPTACLE
- SIMPLEX RECEPTACLE
- SPECIAL RECEPTACLE, TYPE AS INDICATED
- DUPLEX RECEPTACLE WITH 2-USB CHARGING PORTS, 3.6 AMP SMART OUTPUT. LEVITON T5832 OR EQUAL
- CEILING MOUNTED DUPLEX RECEPTACLE
  'DC'-INDICATES DROP CORD
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
- CEILING MOUNTED CORD REEL
- PLUGMOLD/WIREMOLD
- TELEPHONE OUTLET MOUNTED AT 48" UON WITH 1" CONDUIT UP TO ABOVE CEILING. PROVIDE 1-CAT 6 CABLE
- DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. PROVIDE 1-CAT 6 CABLE UON
- TELE/DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. PROVIDE 2-CAT 6 CABLES
- CEILING MOUNTED DATA OUTLET. PROVIDE 1-CAT 6 CABLE UON
- FLUSH FLOOR MOUNTED DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. PROVIDE 2-CAT 6 CABLE UON
- CEILING MOUNTED WIFI ANTENNA. PROVIDE CABLE ABOVE CEILING. PROVIDE 1 CAT 6 CABLE WITH 10' SERVICE LOOP. FOR NON-ACCESBILE CEILINGS. INSTALL LOW VOLTAGE RING WALL MOUNTED AT 84" UON.
- WALL MOUNTED WIFI ANTENNA. PROVIDE CABLE ABOVE CEILING. PROVIDE 1 CAT 6 CABLE WITH 10' SERVICE LOOP. FOR NON-ACCESBILE CEILINGS. INSTALL LOW VOLTAGE RING WALL MOUNTED AT 84" UON.
- AV WALL MOUNTED 4" SQUARE JUNCTION BOX, EXTRA DEEP FOR AV CABLE PROVIDE 2-1 1/2" CONDUITS TO ABOVE
  CARLON 1-GANG NON-METALLIC LOW-VOLTAGE OLD WORK BRACKET AND LEGRAND 1-GANG DECORATOR CABLE ACCESS WALL PLATE - WHITE
- DC DOCUMENT CAMERA
- MM 4000 WIREMOLD RACEWAY CONTAINING A DATA AND POWER DIVIDER WITH RECEPTACLES AND DATA PORTS.
  'MD'-INDICATES MAIN DISPLAY
  'TS'-INDICATES TEACHING STATION
- TV CABLE TV OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. 1 PORT IN FACEPLATE. PROVIDE 1 RG-6/U COAXIAL CABLE
- SP OR SP EXISTING WALL OR CEILING MOUNTED SPEAKER PA SYSTEM
- PA PUBLIC ADDRESS SYSTEM SPEAKER . VALCOM V-1060A.
- IC PA PUSH TO TALK SWITCH. VALCOM 944360
- TBB TELEPHONE BACKBOARD. FIRE RETARDANT PLYWOOD PAINTED WITH 2 COATS GRAY FIRE RETARDANT PAINT
- GB GROUNDING BAR
- C CONTACT FOR EMERGENCY SHUT DOWN
  'XX' = SIZE
  'Y' = NUMBER OF POLES
- EMERGENCY STOP BUTTON
- FACP FIRE ALARM CONTROL PANEL
- FAAP REMOTE ANNUNCIATOR PANEL
- F PULL STATION
- SD OR SD WALL MOUNTED OR CEILING MOUNTED SMOKE DETECTOR. PHOTOELECTRIC UON
- CO SD SMOKE DETECTOR WITH CARBON MONOXIDE BASE
- HD HEAT DETECTOR. RATE OF RISE, FIXED TEMPERATURE 135° F
- CO CARBON MONOXIDE DETECTOR
- DS PHOTOELECTRIC DUCT SMOKE DETECTOR DUCT SMOKE
- RI REMOTE INDICATOR AND TEST STATION
- F/S FIRE SMOKE DAMPER
- F BELL STROBE
- X F WALL MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 15 CANDELA UNLESS NOTED OTHERWISE
  'X' INDICATES CANDELA RATING STROBE UON
- X F CM CEILING MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 110 CANDELA UNLESS NOTED OTHERWISE
  'X' INDICATES CANDELA RATING STROBE UON
- F WALL MOUNTED FIRE ALARM HORN ONLY
- X F WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE 'X' INDICATES CANDELA RATING STROBE UON
- X SS WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE 'X' INDICATES CANDELA RATING STROBE UON
- X SS CM CEILING MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE 'X' INDICATES CANDELA RATING STROBE UON
- S WALL MOUNTED FIRE ALARM SPEAKER ONLY
- S CEILING MOUNTED FIRE ALARM SPEAKER
- DH DOOR HOLD OPEN DEVICE
  'F' DESIGNATION INDICATES FLOOR MOUNTED
- CM FIRE ALARM CONTROL MODULE
- MM FIRE ALARM MONITOR MODULE
- PS SPRINKLER PRESSURE SWITCH
- FS SPRINKLER FLOW SWITCH
- TS SPRINKLER TAMPER SWITCH
- R FIRE ALARM RELAY
- OS CEILING MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY ULTRASONIC/PIR UNLESS NOTED OTHERWISE
  'MP'-INDICATES MICROPHONICS
  'XR'-INDICATES EXTENDED RANGE
  'PC'- INDICATED OCCUPANCY SENSOR WITH PHOTOCELL
- PP LIGHTING POWER PACK
- RC ROOM CONTROL WITH 0-10V DIMMING
- OR CEILING OR WALL MOUNTED LED EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
- OR CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
- OR CEILING OR WALL MOUNTED COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT
- WALL MOUNTED LIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- WALL MOUNTED SCONCE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- LINEAR WALL MOUNTED. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- BALLAST DIRECTION INDICATED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- LINEAR VARIABLE LENGTH OR EXISTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- LINEAR PENDANT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- DIRECTIONAL UPLIGHT OR WALLWASH FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- LINEAR STRIP FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- OR RECESSED DOWNLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- OR SURFACE DOWNLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- OR PENDANT MOUNTED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- ROOFTOP MOUNTED FLOODLIGHT MOUNTED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- SPOTLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
- OR ADDED TO A FIXTURE INDICATES EMERGENCY OR GENERATOR POWERED CIRCUIT
  'LS'-INDICATES LIFE SAFETY CIRCUIT
  'NL'-INDICATES NIGHT LIGHT
- ACP ACCESS CONTROL PANEL
- CR CARD READER
- DC DOOR CONTACTS
- ES ELECTRIC STRIKE
- DO DOOR OPERATOR POWER CONNECTION
- PA DOOR OPERATOR PUSH PAD ACTUATOR
- SA DOOR OPERATOR SWIPE ACTUATOR
- HC HANDICAP DOOR OPERATOR PUSH PAD ACTUATOR
- OR SECURITY CAMERA
- C OR C CAMERA JUNCTION BOX
- CL CLOCK
- RE REQUEST TO EXIT
- SL RR REMOTE DOOR RELEASE SLAVE
- M RR REMOTE DOOR RELEASE MASTER STATION
- PB PANIC BUTTON - DIALS LOCAL POLICE
- IC INTERCOM
- REX REQUEST TO EXIT
- PB PANIC BUTTON- DIALS LOCAL POLICE

## GENERAL INSTALLATION NOTES:

1. LOCATIONS BASED UPON AVAILABLE DOCUMENTATION AND CASUAL FIELD OBSERVATION. CONFIRM ALL LOCATIONS WITH FIELD OBSERVATIONS, MEASUREMENTS AND INVESTIGATION.
2. PROVIDE LIFTS, LADDERS AND OTHER EQUIPMENT REQUIRED TO GAIN ACCESS FOR ALL ELEVATED WORK. OWNER'S LIFTS AND LADDERS SHALL NOT BE USED.
3. PROVIDE ACCURATE, TYPED, PANEL DIRECTORY FOR ALL PANELS INSTALLED OR MODIFIED AS PART OF THE WORK.
4. PROVIDE CIRCUIT BREAKERS LISTED/LABELED FOR EXISTING PANELS TO SUPPLY BRANCH CIRCUITS.
5. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND FLOOR WITH A LISTED FIRESTOP METHOD MATCHING THE F AND T RATINGS OF THE PENETRATED MEDIUM.
6. SEAL ALL PENETRATIONS THORUGH EXTERIOR WALLS OR THROUGH WALLS OR ROOFS SUBJECT TO MOISTURE.
7. COORDINATE WITH OTHER TRADES LOCATIONS OF DISCONNECTS, MOTOR CONTROLLERS AND OTHER ELECTRICAL EQUIPMENT TO PROVIDE REQUIRED CLEARANCES.
8. PROVIDE BRANCH CIRCUIT TO TERMINALS OF MECHANICAL EQUIPMENT AND MAKE TERMINATIONS.
9. ROUTE CONDUITS FOR ROOF TOP EQUIPMENT THROUGH CURBING FOR EQUIPMENT. COORDINATE WITH OTHER CONTRACTS TO PROVIDE SPACE WITHIN CURB CUT TO ROUTE CONDUITS. DO NOT MAKE SEPARATE ROOF PENETRATIONS FOR CONDUITS TO ROOF TOP EQUIPMENT.
10. CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS (ELU'S) AHEAD OF LOCAL SWITCHING TO THE SAME CIRCUIT AS THE AREA'S GENERAL LIGHTING. TYPICAL FOR ALL ELU'S AND EXIT SIGNS UNLESS OTHERWISE NOTED.
11. PROVIDE MOUNTING HARDWARE AND MANUFACTURER'S ACCESSORIES FOR LIGHTING FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
12. DIGITALLY PHOTOGRAPH ALL UNDERGROUND CONDUITS BEFORE COVERING. PHOTOGRAPH CONDUITS WITH SUFFICIENT VIEW ANGLE AND LANDMARKS TO ALLOW OWNER'S MAINTENANCE PERSONNEL TO LOCATE CONDUITS AFTER COMPLETION OF WORK AND TO IDENTIFY TYPE OF SOIL OR ROCK IN TRENCH. PHOTOGRAPH ALL PLACES WHERE CONDUITS CROSS OTHER UTILITIES. NUMBER PHOTOGRAPHS AND LOCATE PHOTOGRAPH NUMBER ON AS-BUILT DRAWINGS. PROVIDE HARDCOPY AND ELECTRONIC MEDIA PHOTO ALBUMS
13. THE EXISTING FIRE ALARM PANEL IS A EDWARDS SYSTEM TECHNOLOGY EST3 PANEL MAINTAINED BY REDDI ALARM & TIME SYSTEMS, INC. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM SYSTEM DEVICES.
14. PROTECT SMOKE DETECTORS DURING CONSTRUCTION. TAKE MEASURES TO PREVENT FIRE ALARM SYSTEM TRIP DUE TO CONSTRUCTION. RESTORE FIRE ALARM TO FULL FUNCTION WHEN CONSTRUCTION WORK CEASES EACH DAY OR PORTION OF WORK DAY.

## GENERAL REMOVAL NOTES:

1. REMOVAL DRAWINGS INDICATE DEVICE LOCATIONS, EQUIPMENT CONNECTIONS, AND PANEL LOCATIONS AS OBSERVED IN THE FIELD. EXISTING PANEL INFORMATION IS BASED ON FIELD OBSERVATION AND AS BUILT DRAWINGS. VERIFY CIRCUITING IN FIELD PRIOR TO REMOVAL. CONFIRM ALL LOCATIONS WITH FIELD OBSERVATIONS, MEASUREMENTS, AND INVESTIGATION. REMOVE ELECTRICAL ITEMS SHOWN ON PLANS UNLESS NOTED OTHERWISE.
2. PROVIDE LIFTS, LADDERS, AND OTHER EQUIPMENT REQUIRED TO GAIN ACCESS FOR ALL ELEVATED WORK. OWNER'S LIFTS AND LADDERS SHALL NOT BE USED.
3. COORDINATE REMOVALS WITH THE ARCHITECTURAL PLANS.
4. COORDINATE ELECTRICAL REMOVALS WITH OTHER TRADES.
5. CONDUCT REMOVALS TO ALLOW EXISTING RECEPTACLES TO REMAIN TO STAY ON THEIR EXISTING CIRCUIT(S) SHOULD A NEW CIRCUIT OR DEDICATED CIRCUIT NOT BE INDICATED ON THE DRAWINGS.
6. REMOVE CONDUCTORS AND CONDUIT BACK TO SOURCE PANEL WHERE NOT INDICATED FOR REUSE.
7. MAINTAIN CIRCUIT CONTINUITY TO SYSTEMS AND ROOMS ADJACENT TO RENOVATION AND CONSTRUCTION AREAS. PERMANENTLY REPAIR CIRCUITS OR WIRING DISTURBED, MODIFIED, OR DISPLACED BY THE WORK.
8. REPAIR ALL OPEN PENETRATIONS CREATED BY REMOVAL OF ELECTRICAL RACEWAYS.
9. REMOVE CONDUIT AND CONDUCTORS ASSOCIATED WITH FIXTURES, DEVICES, AND EQUIPMENT REMOVED.
10. PROVIDE COVER PLATES FOR ABANDONED FLUSH MOUNTED DEVICES.
11. REMOVE DATA JACKS AND CABLING BACK TO DATA RACKS. REMOVE PHONE JACKS AND CABLING BACK TO TELEPHONE PUNCH PANEL.
12. THE EXISTING FIRE ALARM PANEL IS A EDWARDS SYSTEM TECHNOLOGY EST3 PANEL MAINTAINED BY REDDI ALARM & TIME SYSTEMS, INC. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM DEVICES.
13. PROTECT SMOKE DETECTORS DURING CONSTRUCTION. TAKE MEASURES TO PREVENT FIRE ALARM SYSTEM TRIP DUE TO CONSTRUCTION. RESTORE FIRE ALARM TO FULL FUNCTION WHEN CONSTRUCTION WORK CEASES EACH DAY OR PORTION OF WORK DAY.
14. DO NOT ALLOW FIRE ALARM CONTROL PANEL TO REMAIN IN 'TROUBLE' DURING REMOVALS. AFTER COMPLETION OF EACH DAY'S WORK REPROGRAM PANEL OR MAKE REPAIRS TO PLACE PANEL IN 'NORMAL' CONDITION.




NOTES:

1. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
2. WHERE SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH THE ARCHITECT.
3. THE EC SHALL VERIFY FINAL WORKBENCH, COUNTER,, CABINET OR VANITY HEIGHTS INCLUDING BACK SPLASH, ON SITE WITH THE GC PRIOR TO THE INSTALLATION OF ANY BOXES.
4. WHERE DEVICES ARE INSTALLED ABOVE OR BELOW EACH OTHER ALL DEVICE BOXES SHALL ALIGN VERTICALLY.
5. WHERE DEVICES RE INSTALLED ON EACH SIDE OF A RATED WALL THE DEVICES SHALL BE OFFSET.

## L5 DEVICE MOUNTING DETAIL

N.T.S.

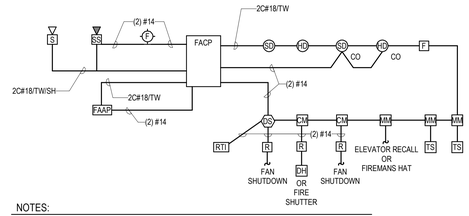
EQUIPMENT NAME
XXX VOLTS, X PH, X WIRE
FED FROM PANEL XXX
CIRCUIT XX, XX, XX

NOTES:

1. EXAMPLE PLATE SHOWN.
2. PROVIDE MINIMUM 1/4" HEIGHT WHITE LETTERING ON BLACK BACKGROUND.
3. ATTACH WITH WATERPROOF ADHESIVE.

## J5 LAMINATED IDENTIFICATION PLATE

N.T.S.

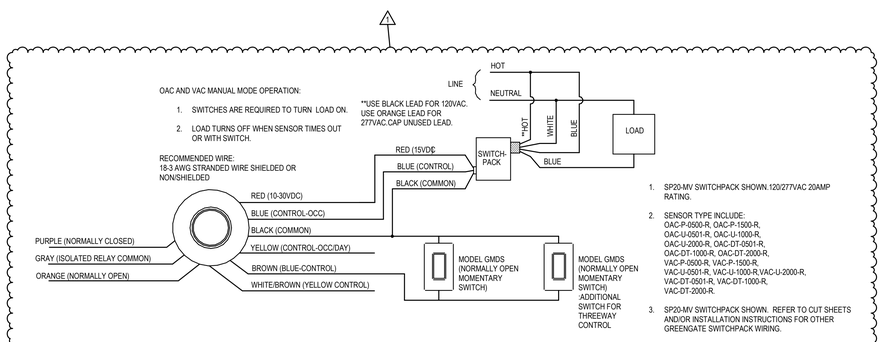



NOTES:

1. REFER TO FLOOR PLAN FOR QUANTITIES AND LOCATIONS OF DEVICES AND EQUIPMENT.
2. PROVIDE MANUFACTURER'S RECOMMENDED WIRING TYPE AND QUANTITY.
3. WIRING AS PER MANUFACTURER'S STANDARD PRACTICES.

## F5 FIRE ALARM RISER DIAGRAM

N.T.S.




## A7 SINGLE SENSOR LIGHTING CONTROL DIAGRAM (MANUAL MODE FOR CEILING MOUNT SENSORS AND LOW VOLTAGE WALL SWITCHES)

12" = 1'-0"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REGISTRATION EXPIRES: 10/31/2023

NUFSD BOND PROJECTS PH4

- SED#50-01-08-03-0-003-036 (NANUET HS)
- SED#50-01-08-03-0-004-021 (BARR MS)
- SED#50-01-08-03-0-001-025 (MILLER ES)

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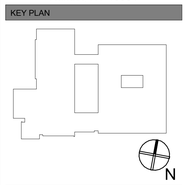
KEY PLAN



N

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| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
ELECTRICAL SYMBOLS, LEGENDS AND ABBREVIATIONS

**SHEET NUMBER:**

BM-E001

ISSUE FOR BID SET

DRAWN BY: Author
CHECKED BY: Checker
4/29/2024 5:45:38 PM

PROJECT NUMBER: 2211003.00 COPYRIGHT © 2014 KSQ ARCHITECTS, PC

## GENERAL NOTES:

1. REFER TO SHEET ME-E001 FOR GENERAL NOTES.

## KEYED NOTES:

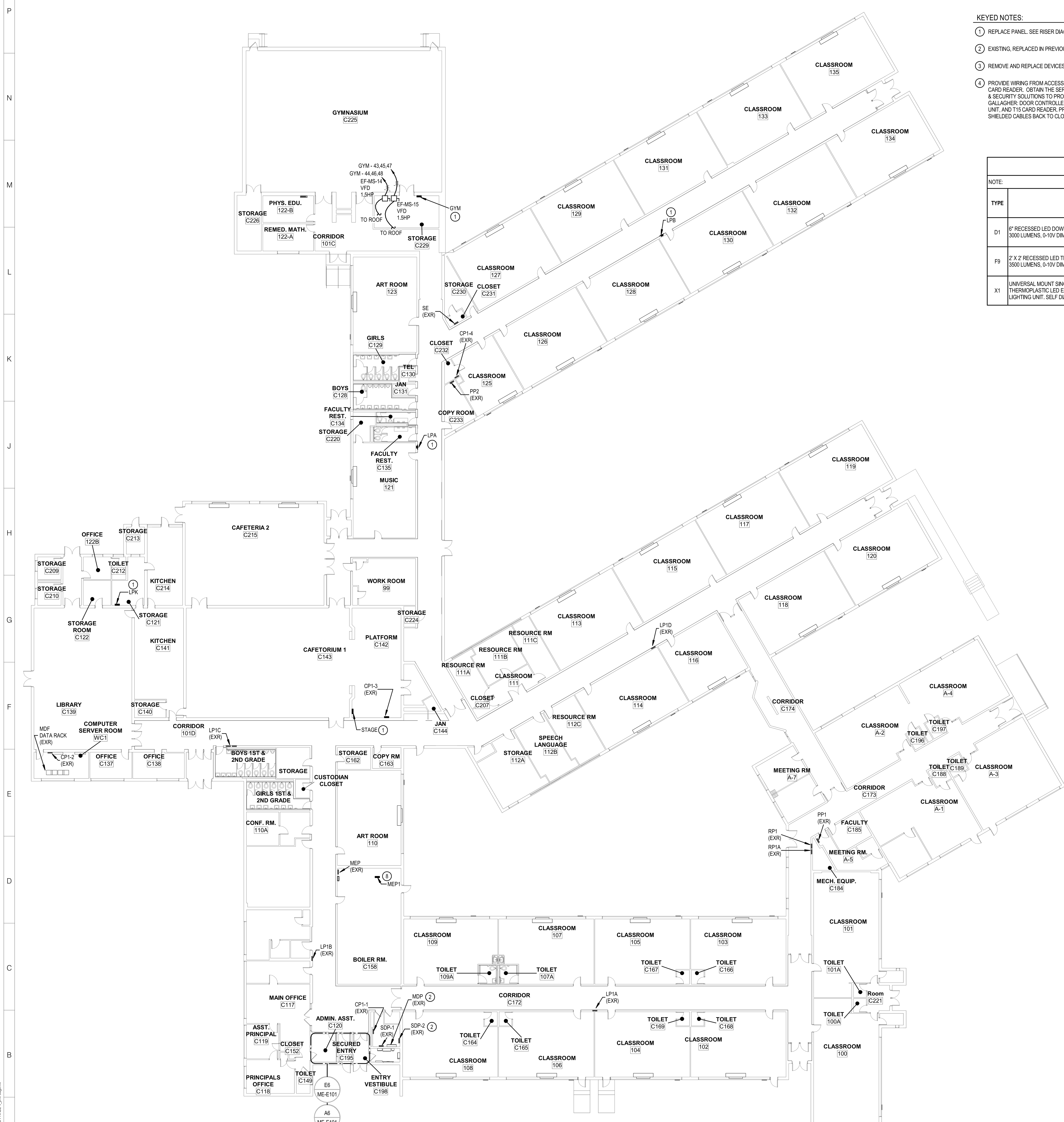
1. REPLACE PANEL. SEE RISER DIAGRAM PANEL SCHEDULE DRAWINGS FOR MORE INFORMATION.
2. EXISTING, REPLACED IN PREVIOUS PHASE.
3. REMOVE AND REPLACE DEVICES TO FACILITATE ARCHITECTURAL WORK. CONNECT TO EXISTING CIRCUIT.
4. PROVIDE WIRING FROM ACCESS CONTROL PANEL TO DOOR CONTACTS, REQUEST TO EXIT, ELECTRIC STRIKE, AND CARD READER. OBTAIN THE SERVICES OF THE DISTRICT'S PREFERRED ACCESS CONTROL VENDOR A+ TECHNOLOGY & SECURITY SOLUTIONS TO PROGRAM THE SYSTEM FOR THE NEW OPENING. PROVIDE PRODUCTS FROM GALLAGHER: DOOR CONTROLLER 6000, LOCK CONTROLLER C8, BUS MODULE 4HBUS, CABINET & 6A POWER SUPPLY UNIT, AND T15 CARD READER. PROVIDE EDWARDS MAGNETIC DOOR CONTACTS. PROVIDE 18/4 AND 22/6 STRANDED SHIELDED CABLES BACK TO CLOSEST DATA ROOM.
5. PROVIDE ALTA AWARE CLOUD CONNECTED INDOOR IP CAMERA #5.0C-H6SL-D1-IR-30 AND 1 CAT 6 CABLE TO CLOSEST DATA COSET CAMERA SERVER. OBTAIN PROGRAMMING SERVICES FROM THE DISTRICT'S PREFERRED ACCESS CONTROL VENDOR A+ TECHNOLOGY & SECURITY SOLUTIONS TO MAKE FINAL CONNECTIONS AND ADD AND PROGRAM THE CAMERA INTO THE EXISTING VIDEO SYSTEM
6. PROVIDE VIDEO INTERCOM SYSTEM, DOOR REMOTE RELEASE, AND PANIC BUTTON WIRED TO DIRECT DIAL THE LOCAL POLICE DEPARTMENT. VIDEO INTERCOM AND REMOTE RELEASE CAN BE COMBINED INTO A SINGLE SYSTEM, (AXIS A8004-VE).
7. CONNECT TO EXISTING LIGHTING CIRCUIT.
8. REPLACE PANEL. SEE RISER DIAGRAM PANEL SCHEDULE DRAWINGS FOR MORE INFORMATION. PANEL IS MOUNTED ON UNISTRUT

1

## LIGHTING FIXTURE SCHEDULE

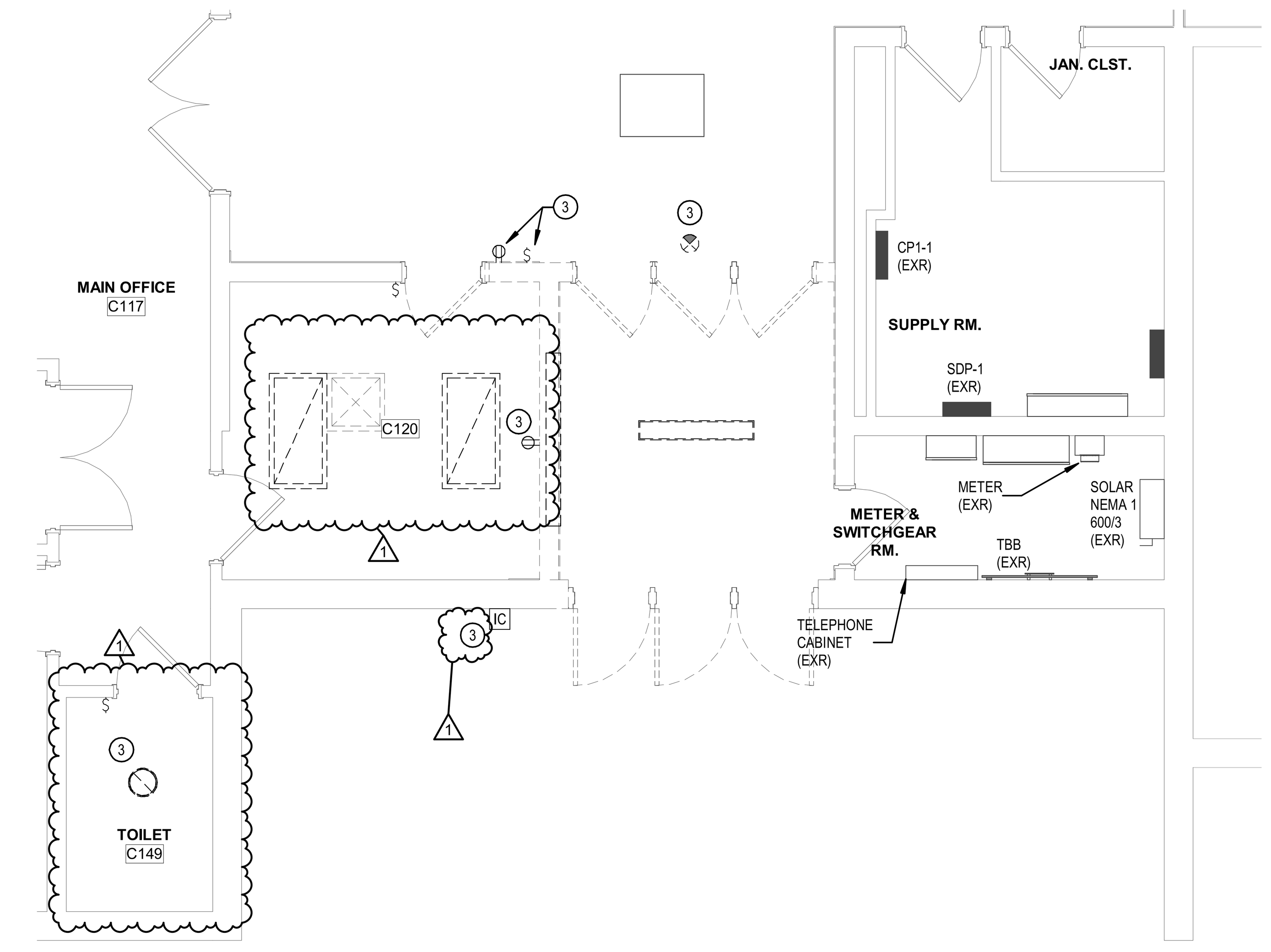
NOTE:

| TYPE | DESCRIPTION | MANUFACTURER | LAMP TYPE | LAMP WATTS | LAMP LUMENS | LAMP COLOR | VOLTS | FIXTURE REMARKS |
|---|---|---|---|---|---|---|---|---|
| D1 | 6" RECESSED LED DOWNLIGHT, 3000 LUMENS, 0-10V DIMMING | COOPER LIGHTING #HC630D010-HM634835-61MDH | LED | 27.0 W | 3000 lm | 3500 K | 120 | |
| F9 | 2' X 2' RECESSED LED TROFFER, 3500 LUMENS, 0-10V DIMMING | COOPER LIGHTING #22CZ-LD5-34-UNV-L835-CD1-U | LED | 25.0 W | 3500 lm | 3500 K | 120 | |
| X1 | UNIVERSAL MOUNT SINGLE OR DOUBLE FACE THERMOPLASTIC LED EXIT SIGN WITH EMERGENCY LIGHTING UNIT. SELF DIAGNOSTICS | COOPER LIGHTING #LPX-6-SD | LED | 3.4 W | | | UNV | PROVIDE MOUNTING AND DIRECTIONAL CONFIGURATION AS INDICATED ON DRAWINGS |



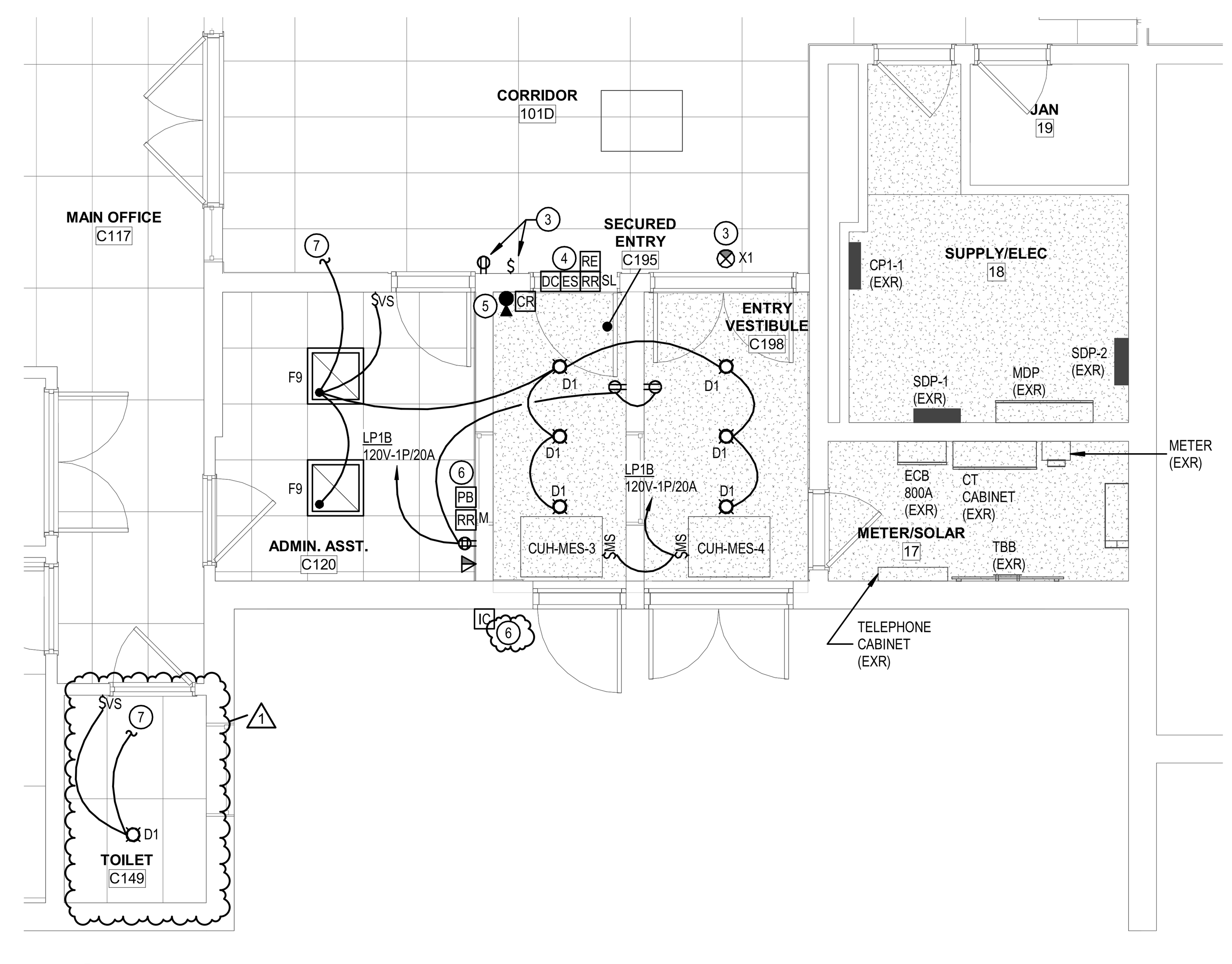

## A18 OVERALL FIRST FLOOR PLAN

1/16" = 1'-0"




## E6 ENLARGED ENTRY ELECTRICAL REMOVALS

1/4" = 1'-0"




## A6 ENLARGED ENTRY ELECTRICAL PLAN

1/4" = 1'-0"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# NUFSD BOND PROJECTS PH 4 - G.W. MILLER ES

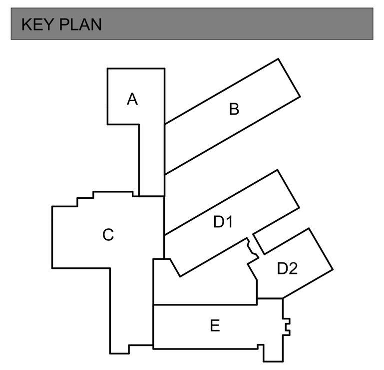
- ☐ SED#50-01-08-03-0-003-036 (NANUET HS)
- ☐ SED#50-01-08-03-0-004-021 (BARR MS)
- ■ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:** OVERALL ELECTRICAL PLAN

**SHEET NUMBER:** ME-E101

ISSUE FOR BID SET

PROJECT NUMBER: 2111003.00

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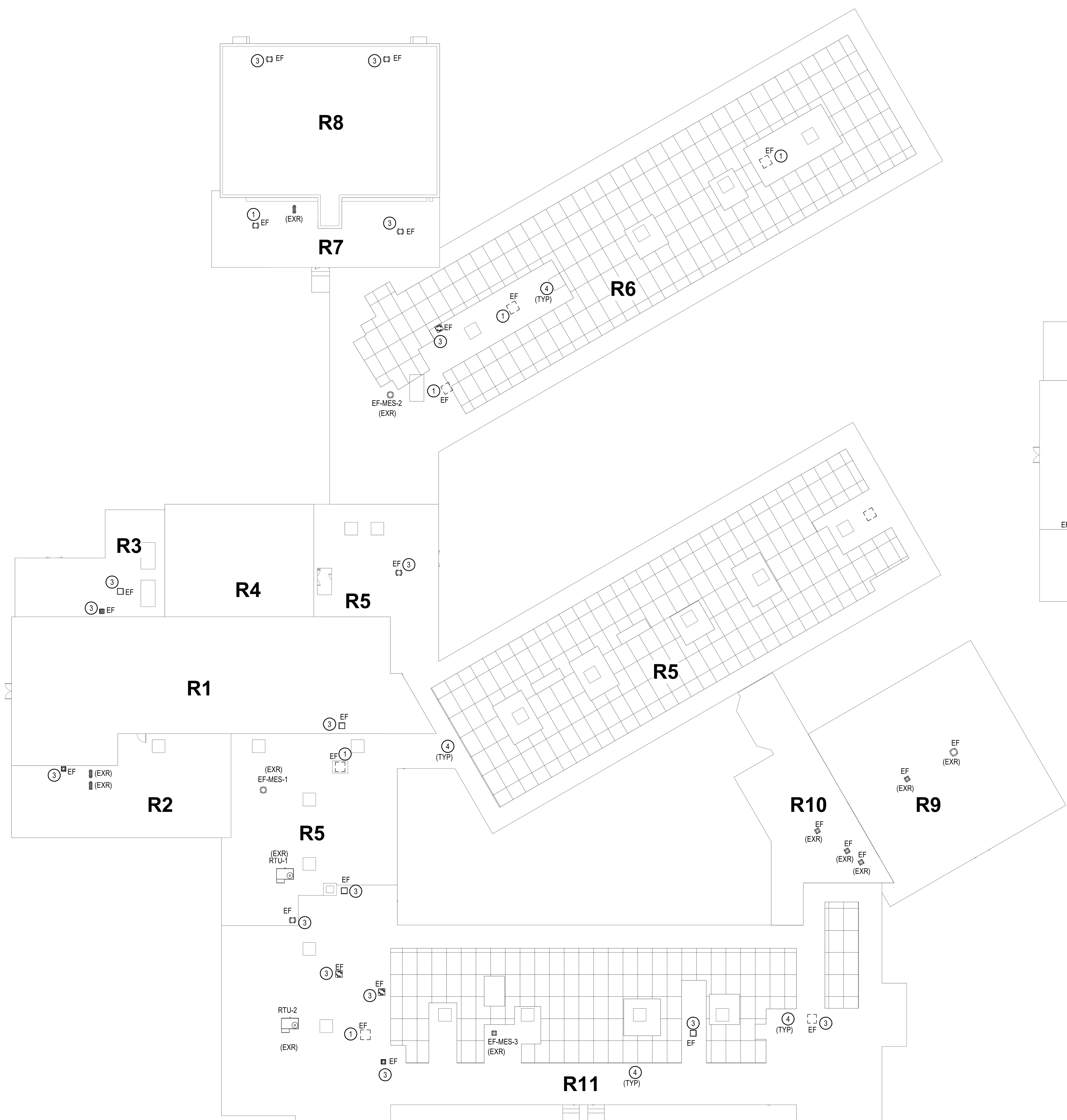
## GENERAL NOTES:

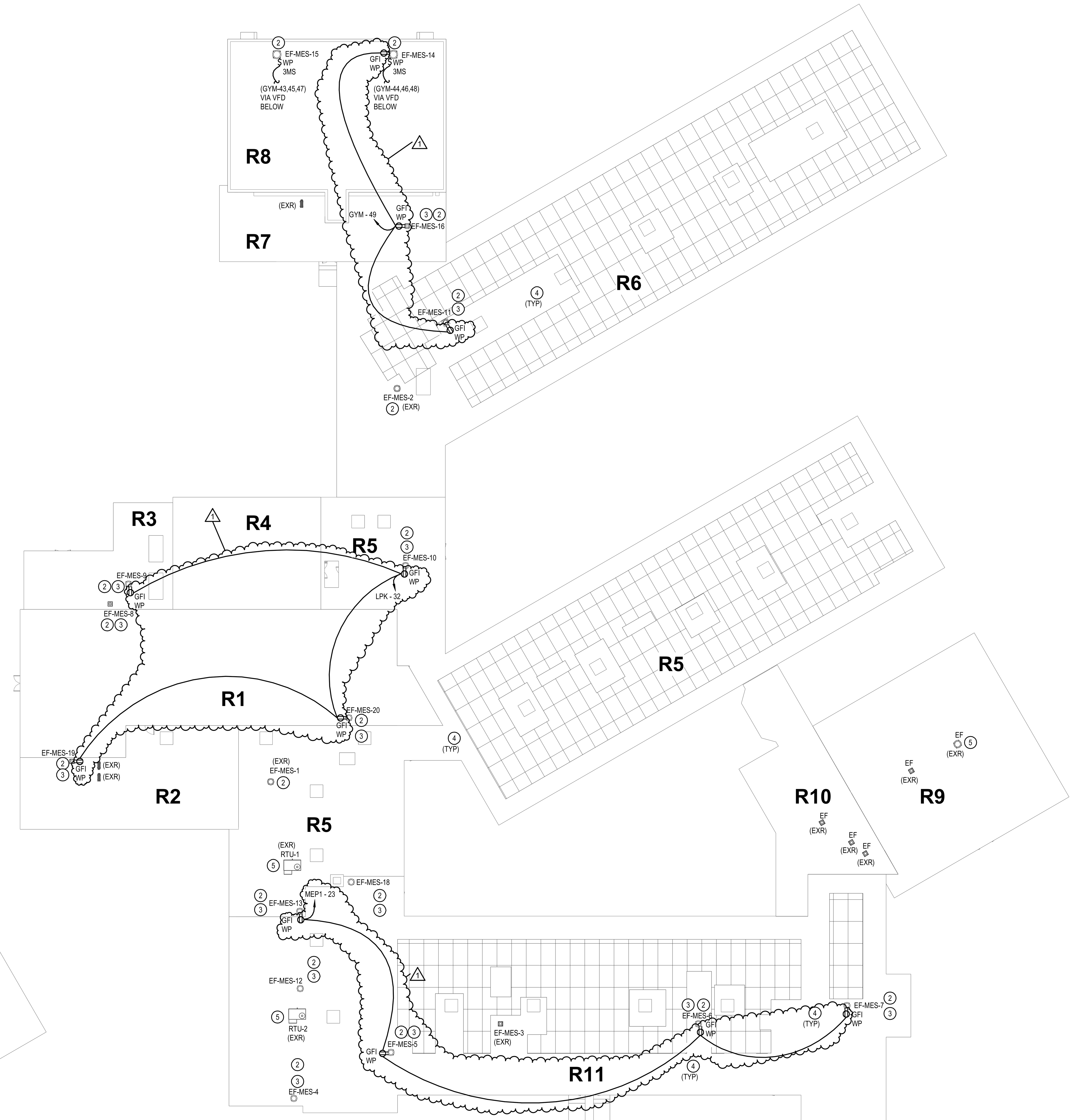
1. REFER TO SHEET ME-E001 FOR GENERAL NOTES.

## KEYED NOTES:

1. EXISTING EXHAUST FAN AND DISCONNECT BELOW TO BE REMOVED. DISCONNECT AND PULL CONDUIT AND WIRES BACK TO SOURCE.
2. PROVIDE FIRE ALARM CONTROL RELAY TO SHUT DOWN INDICATED HVAC EQUIPMENT UPON ALARM OF FIRE ALARM SYSTEM.
3. EXISTING EXHAUST FAN TO BE REPLACED. DISCONNECT, COIL-UP, AND PROTECT WIRES. RECEPTACLES MOUNTED ON ROOFTOP EQUIPMENT TO BE REPLACED OR RELOCATED. DISCONNECT, COIL-UP, AND PROTECT WIRES.
4. COORDINATE REMOVALS OF ALL PV EQUIPMENT FROM ROOF WITH GENERAL CONTRACTOR AND CONSTRUCTION MANAGER. SOLAR EQUIPMENT INCLUDES PANEL SUPPORTS. PANELS, CONDUIT, INVERTERS, AC VOLTAGE WIRING, AND DC VOLTAGE WIRING. REMOVE ALL EQUIPMENT AND MAINTAIN EXISTING CONDUIT PENETRATIONS THROUGH ROOF THAT FED SOLAR FOR REUSE. STORE AS DIRECTED. REINSTALL COMPLETE PV SYSTEM AS PREVIOUSLY CONFIGURED AND RECONNECT TO BUILDING ELECTRICAL SYSTEM.
5. PROVIDE DUCT SMOKE DETECTOR IN THE IN THE SUPPLY AND RETURN DUCT OF INDICATED UNIT. LOCATE DUCT SMOKE DETECTORS UPSTREAM OF ALL BRANCHES. PROVIDE CONTROL RELAYS AS NECESSARY TO SHUT DOWN ROOFTOP UNIT THAT DUCTWORK RETURNS TOO. PROVIDE REMOTE DUCT TEST AND INDICATING STATION 6” BELOW FINISHED CEILING OR 8' AFF WHICHEVER IS LOWER. PROVIDE WIRING, INCLUDING ANY CONTROL WIRING, PER MANUFACTURERS INSTRUCTIONS.




A18 ROOF ELECTRICAL REMOVALS PLAN - ALTERNATE 3
3/64" = 1'-0"




C9 ROOF ELECTRICAL PLAN - ALTERNATE 3
3/64" = 1'-0"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REGISTRATION EXPIRES: 10/31/2025

NANUET

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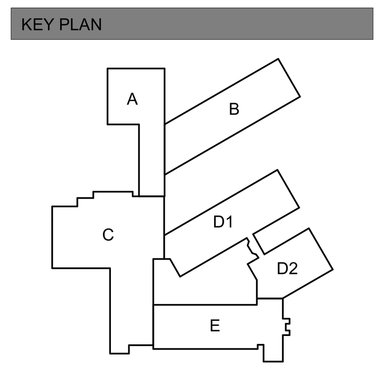


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| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
ROOF ELECTRICAL PLANS

**SHEET NUMBER:**
ME-E102

ISSUE FOR BID SET



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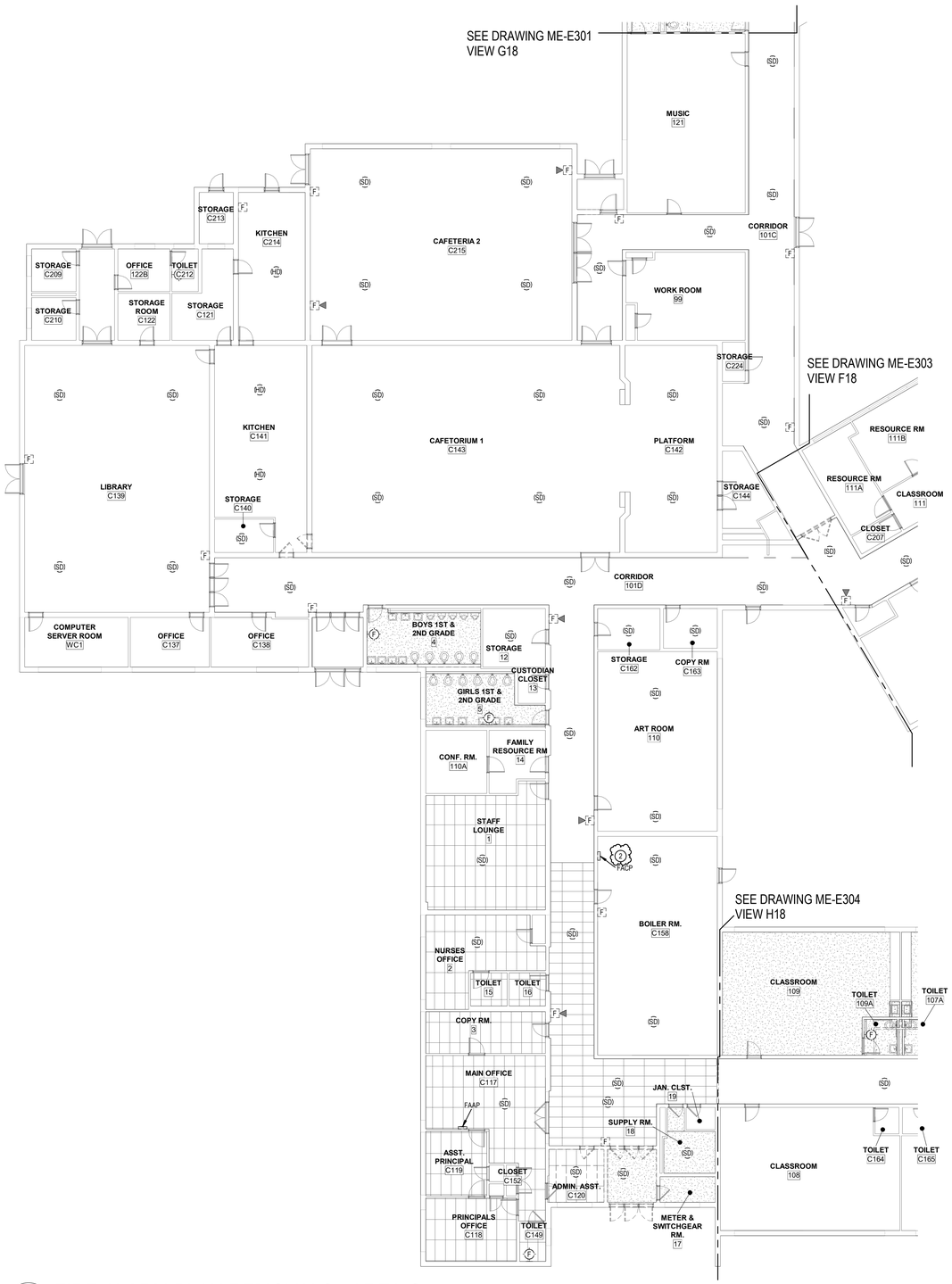
4/30/2024 1:32:31 PM

## GENERAL NOTES:

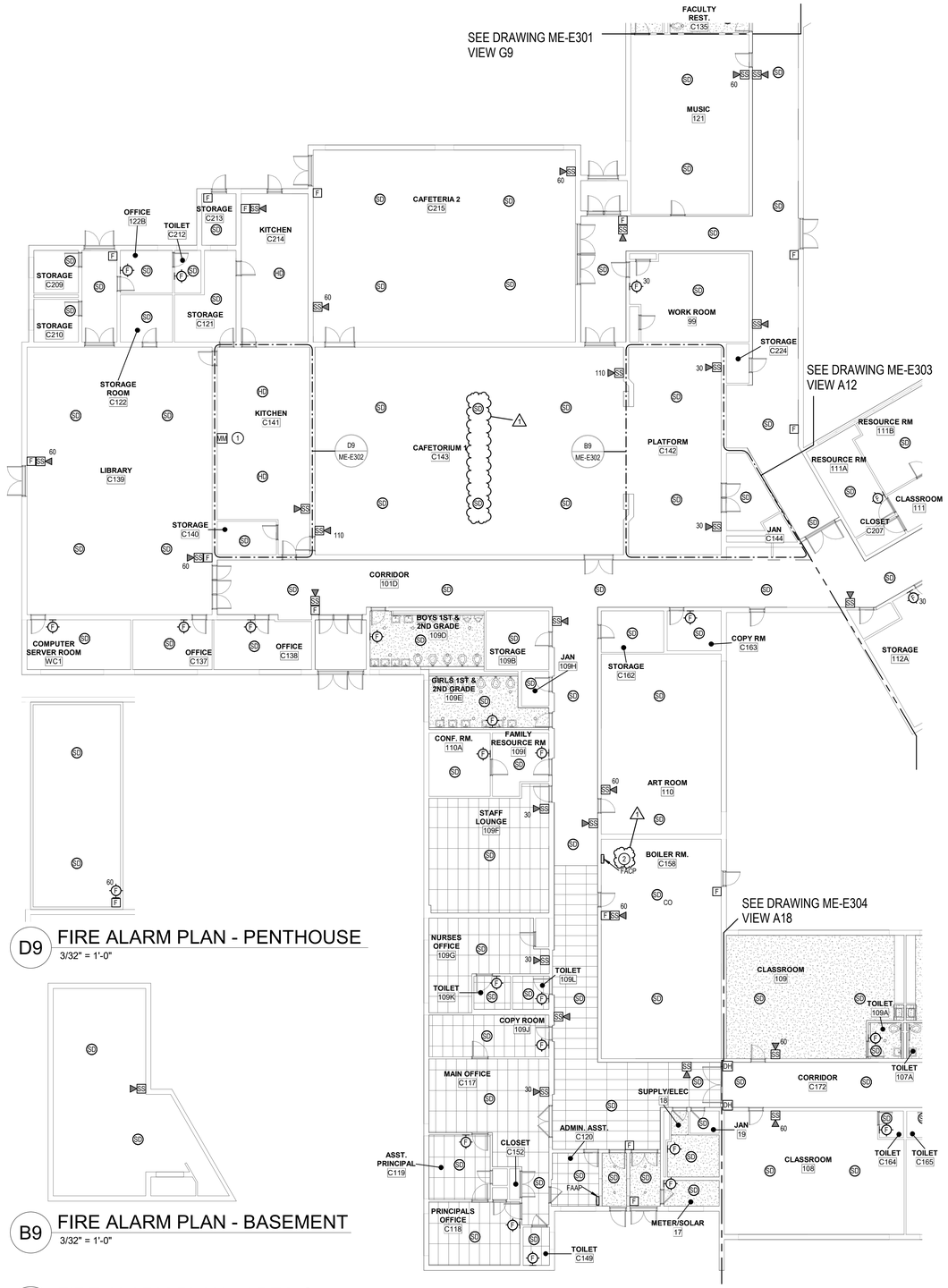
1. SEE SHEET ME-E001 FOR GENERAL PROJECT NOTES.
2. SEE SHEET ME-E103 FOR FIRE ALARM SHUT DOWN INFORMATION OF ROOFTOP EQUIPMENT.
3. SCOPE OF FIRE ALARM WORK AT MILLER ELEMENTARY SCHOOL IS A COMPLETE SYSTEM REPLACEMENT, INCLUDING FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANELS (FAAP), INITIATING DEVICES, NOTIFICATION DEVICES, WIRING, RACEWAY, AND EMERGENCY CONTROL FUNCTION INTERFACE CONNECTIONS FOR HVAC FAN SHUTDOWN, DOOR RELEASE, SUPPRESSION SYSTEM MONITORING, AND CARBON MONOXIDE (CO) DETECTION AND ALARM.
4. THE ENTIRE EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND ACTIVE UNTIL THE ENTIRE NEW SYSTEM IN INSTALLED, TESTED, AND COMMISSIONED. ONCE NEW SYSTEM IS COMPLETE, REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY.

## KEYED NOTES:

1. PROVIDE MONITOR MODULE AND CONNECT TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
2. REMOVE EXISTING FIRE ALARM PANEL AND PROVIDE NEW FIRE ALARM PANEL. REUSE EXISTING CIRCUIT.




A18 FIRE ALARM PLAN REMOVALS - AREA C
3/32" = 1'-0"




D9 FIRE ALARM PLAN - PENTHOUSE
3/32" = 1'-0"

B9 FIRE ALARM PLAN - BASEMENT
3/32" = 1'-0"

A9 FIRE ALARM PLAN - AREA C
3/32" = 1'-0"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REGISTRATION EXPIRES: 10/31/2023

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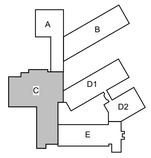
Nanuet, NY 10954

KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
FIRE ALARM PLAN AREA C

**SHEET NUMBER:**

# ME-E302

ISSUE FOR BID SET

DRAWN BY: Author
CHECKED BY: Checker
4/30/2024 1:32:36 PM


PROJECT NUMBER: 2111003.00 COPYRIGHT © 2014 KSQ ARCHITECTS, PC

## PANEL LIST

| NAME | AREA | LOCATION | VOLTAGE | RATING | MCB | POLES | MOUNTING | SECTION | REPLACE Y/N | MANUFACTURER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CP1-1 | C | SUPPLY/ELEC 18 | 208Y/120 | 100 A | 100 A | 42 | SURFACE | 1 OF 1 | | SQUARE D | |
| CP1-2 | C | COMPUTER SERVER ROOM WC1 | 208Y/120 | 80 A | 80 A | 42 | SURFACE | 1 OF 1 | | SQUARE D | |
| CP1-3 | C | PLATFORM C142 | 208Y/120 | 100 A | 100 A | 42 | SURFACE | 1 OF 1 | | SQUARE D | |
| CP1-4 | B | CLOSET C232 | 208Y/120 | 100 A | 100 A | 42 | SURFACE | 1 OF 1 | | SQUARE D | |
| F | C | PENTHOUSE | 208Y/120 | 60 A | MLO | 12 | SURFACE | 1 OF 1 | | SQUARE D | |
| GYM | A | STORAGE C229 | 208Y/120 | 100 A | MLO | 54 | SURFACE | 1 OF 1 | Yes | WESTINGHOUSE | |
| LP1A | E | CORRIDOR C172 | 208Y/120 | 225 A | MLO | 42 | RECESSED | 1 OF 1 | | SQUARE D | |
| LP1B | C | CORRIDOR 101D | 208Y/120 | 200 A | MLO | 42 | RECESSED | 1 OF 1 | | SQUARE D | |
| LP1C | C | CORRIDOR 101D | 208Y/120 | 225 A | MLO | 84 | RECESSED | 2 SECTIONS | | SIEMENS | |
| LP1D | D1 | CORRIDOR 101D | 208Y/120 | 225 A | MLO | 42 | RECESSED | 1 OF 1 | | SQUARE D | |
| LPA | A | CORRIDOR 101C | 208Y/120 | 200 A | MLO | 42 | RECESSED | 1 OF 1 | Yes | FRANK ADAMS | PANEL IS 9.5 X 32 TRIM IS 20.5 X 41 |
| LPB | B | CORRIDOR 101C | 208Y/120 | 200 A | MLO | 42 | RECESSED | 1 OF 1 | Yes | FRANK ADAMS | PANEL IS 9.5 X 32 TRIM IS 20.5 X 41 |
| LPK | C | STORAGE C121 | 208Y/120 | 200 A | MLO | 42 | SURFACE | 1 OF 1 | Yes | FRANK ADAMS | |
| MEP | C | BOILER RM. C158 | 208Y/120 | 200 A | MLO | 42 | SURFACE | 1 OF 1 | | SQUARE D | |
| MEP1 | C | BOILER RM. C158 | 208Y/120 | 100 A | MLO | 24 | SURFACE | 1 OF 1 | Yes | SIEMENS | |
| PP1 | D2 | MEETING RM. A-5 | 208Y/120 | 400 A | 150 A | 48 | SURFACE | 1 OF 1. | | EATON | PANEL HAS AN EATON PDD2 |
| PP2 | B | COPY ROOM C233 | 208Y/120 | 225 A | 150 A | 42 | SURFACE | 1 OF 1 | | EATON | |
| RP1 | D2 | CORRIDOR C173 | 208Y/120 | 125 A | 200 A | 38 | RECESSED | 1 OF 2 | | GE | |
| RP1A | D2 | CORRIDOR C173 | 208Y/120 | 225 A | 100 A | 42 | RECESSED | 2 SECTIONS | | GE | |
| SDP-1 | C | SUPPLY/ELEC 18 | 208Y/120 | 400 A | 300 A | 30 | SURFACE | 1 OF 1 | | EATON | |
| SDP-2 | C | SUPPLY/ELEC 18 | 208Y/120 | 225 A | 225 A | 54 | SURFACE | 1 OF 1 | | EATON | |
| SE | B | CLOSET C231 | 208Y/120 | 50 A | MLO | 12 | SURFACE | 1 OF 1 | | GE | |
| STAGE | C | PLATFORM C142 | 208Y/120 | 225 A | MLO | 42 | SURFACE | 1 OF 1 | Yes | SIEMENS | |

## FEEDER SCHEDULE

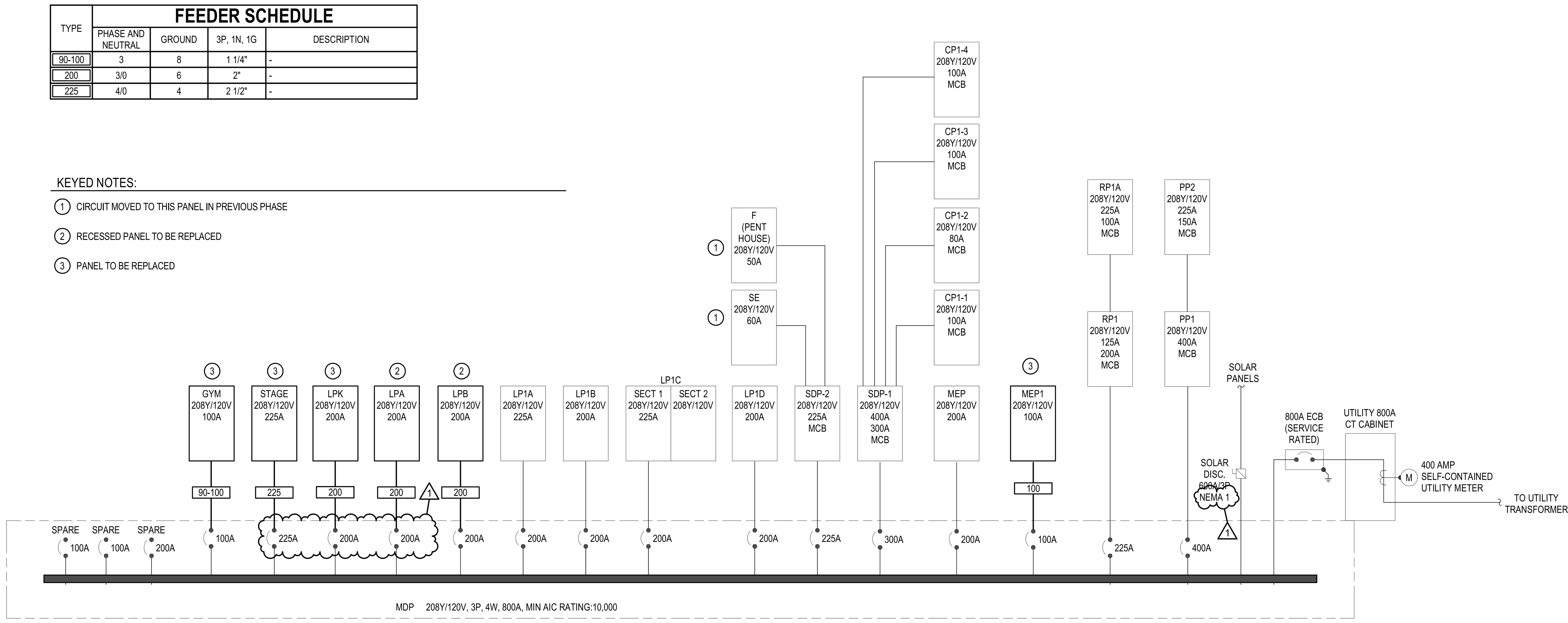
| TYPE | PHASE AND NEUTRAL | GROUND | 3P, 1N, 1G | DESCRIPTION |
|---|---|---|---|---|
| 90-100 | 3 | 8 | 1 1/4" | - |
| 200 | 3/0 | 6 | 2" | - |
| 225 | 4/0 | 4 | 2 1/2" | - |

KEYED NOTES:

(1) CIRCUIT MOVED TO THIS PANEL IN PREVIOUS PHASE

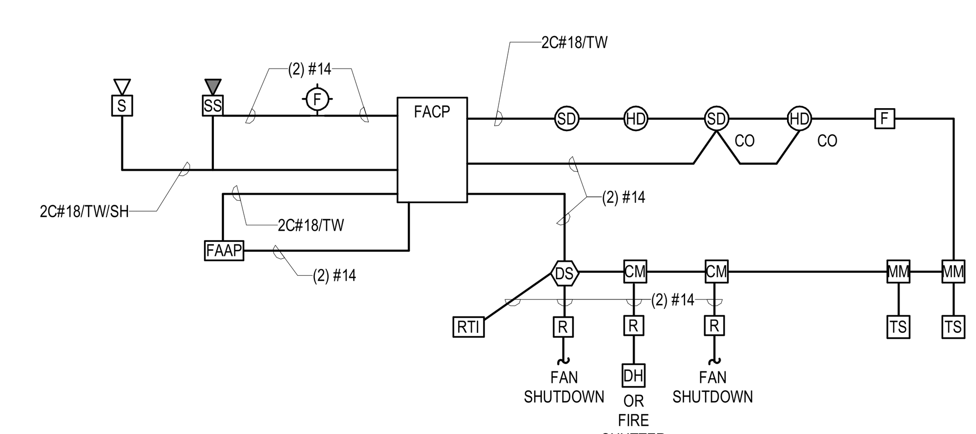
(2) RECESSED PANEL TO BE REPLACED

(3) PANEL TO BE REPLACED




A18 SINGLE LINE DIAGRAM-EXISTING

NTS




NOTES:

1. REFER TO FLOOR PLAN FOR QUANTITIES AND LOCATIONS OF DEVICES AND EQUIPMENT.
2. PROVIDE MANUFACTURER'S RECOMMENDED WIRING TYPE AND QUANTITY.
3. WIRING AS PER MANUFACTURER'S STANDARD PRACTICES.

A4 FIRE ALARM RISER DIAGRAM

NTS


ARCHITECT

ksqdesign

NEW YORK OKLAHOMA

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Owner

**Nanuet Union Free School District**
103 Church St, Nanuet, NY 10954
845.627.9880 office
http://www.nanuetsd.org/

MEP Engineer

**Sage Engineering Associates, LLP**
9 Columbia Circle
Albany NY 12203
518.453.6091 office
518.453.6092 fax
www.sagellp.com

Environmental Engineer

**Quest Environmental Solutions**
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager

**Jacobs**
One Penn Plaza
54th Floor, Suite 5420
New York, NY 10119
646.908.6550
www.jacobs.com


REGISTRATION EXPIRES: 10/31/2023

NANUET

# NUFSD BOND PROJECTS PH 4 - G.W. MILLER ES

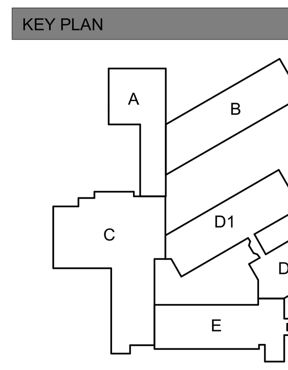
☐ SED#50-01-08-03-0-003-036 (NANUET HS)
☐ SED#50-01-08-03-0-004-021 (BARR MS)
■ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
DETAILS AND DIAGRAMS

**SHEET NUMBER:**
ME-E501

ISSUE FOR BID SET

PROJECT NUMBER: 2111003.00

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# NAME: LPA — EXISTING PANEL TO BE REMOVED

| MOUNTING: RECESSED | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: | AMPS RMS SYM |
| OTHER: GYPSUM /TILE | | LOCATION: CORRIDOR 101C | |

**NOTES:**

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LGT MUSIC ROOM | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | REC. LIBRARY OR OFF | 2 |
| 3 | LGT MUSIC ROOM | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LGT STORAGE 132 | 4 |
| 5 | LGT MUSIC ROOM REC. | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT LIBRARY OR X | 6 |
| 7 | V.C. HALL 131 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | LGT STORAGE | 8 |
| 9 | CORR. LTG. 131 OR LIBRARY WALL RCPT | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | SPARE | 10 |
| 11 | STORAGE 124, 125, 127, 128, 129 OR FAC. BATHROOMS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT LIBRARY OR READ ROOM | 12 |
| 13 | BOYS & GIRLS TOILETS 123-126 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | LGT LIBRARY | 14 |
| 15 | TIME CLOCK UU RM 131 & LIBRARY | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LGT TUNNEL | 16 |
| 17 | RCPT FAC. RM | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT TUNNEL | 18 |
| 19 | LGT HALL 131 3WAY | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | A/C ROOM # CONFERENCE RM. | 20 |
| 21 | V.C. HALL 131 WEST | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | SPOT LGTS or A/C WINDOW STRIP SMALL LIBRARY | 22 |
| 23 | V.C. HALL 131 EAST | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 24 |
| 25 | R.F. J.C. 125 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 26 |
| 27 | LGT EAST CORR. | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 28 |
| 29 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 20 | -- | -- | A/C RM. 134 | 30 |
| 31 | ROOF FAN | -- | -- | 15 | 3 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 32 |
| 33 | -- | -- | -- | -- | -- | | 0 | | | -- | | 1 | -- | -- | -- | - | 34 |
| 35 | -- | -- | -- | -- | -- | | | 0 | | | -- | 1 | -- | -- | -- | - | 36 |
| 37 | ROOF FAN | -- | -- | 15 | 3 | 0 | | | -- | | | 1 | -- | -- | -- | - | 38 |
| 39 | -- | -- | -- | -- | -- | | 0 | | | -- | | 1 | -- | -- | -- | - | 40 |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | -- | 1 | -- | -- | -- | - | 42 |

# NAME: LPK — EXISTING PANEL TO BE REMOVED

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: STORAGE C121 | |

**NOTES:**

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXISTING LOAD | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | "FAN OUTLET" | 2 |
| 3 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT KITCHEN NO. WALL | 4 |
| 5 | "ALL PURPOSE" | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | FREEZER | 6 |
| 7 | "ALL PURPOSE" | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SIEMANS PWR SUPP | 8 |
| 9 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | AC RM. 122 B | 10 |
| 11 | "ALL PURPOSE" | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | MILK CASE | 12 |
| 13 | "ALL PURPOSE" | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | REFIG. -NEW KIT. | 14 |
| 15 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | POTATO PEELER | 16 |
| 17 | RCPT. ALL. PURP. | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | KITCHEN LIGHTS | 18 |
| 19 | REC. EMERG. LGT. | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | KITCHEN LIGHTS | 20 |
| 21 | REC. ALL PURP. RM | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | A.C. SOCIAL WORKERS OFFICES or STEAM TABLE | 22 |
| 23 | SHELTER LGTS & CAN WASH. | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | A.C. SOCIAL WORKERS OFFICES or STEAM TABLE | 24 |
| 25 | HEAT BLOWERS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | FREEZER OR SPARE | 26 |
| 27 | RCPT KITCHEN or TRAULSEN 2-DOOR ROLL-IN | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | FREEZER OR SPARE | 28 |
| 29 | RCPT KITCHEN | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 30 |
| 31 | DISH WASHER | -- | -- | 15 | 3 | 0 | | | 0 | | | 1 | 20 | -- | -- | SPARE | 32 |
| 33 | -- | -- | -- | -- | -- | | 0 | | | 0 | | 2 | 20 | -- | -- | SPARE | 34 |
| 35 | -- | -- | -- | -- | -- | | | 0 | | | 0 | -- | -- | -- | -- | -- | 36 |
| 37 | CAN. WASHING MACHINE | -- | -- | 15 | 3 | 0 | | | 0 | | | 1 | 20 | -- | -- | RCPT NEW KITCHEN | 38 |
| 39 | -- | -- | -- | -- | -- | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT NEW KITCHEN | 40 |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | -- | 1 | -- | -- | -- | - | 42 |

# NAME: STAGE — EXISTING PANEL TO BE REMOVED

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 225 A | MCB: MLO | MIN AIC RATING: | AMPS RMS SYM |
| OTHER: | | LOCATION: PLATFORM C142 | |

**NOTES:**

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPOT LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RED | 2 |
| 3 | SPOT LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WHITE | 4 |
| 5 | CEILING LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | WHITE | 6 |
| 7 | CEILING LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | WHITE | 8 |
| 9 | CEILING LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WHITE | 10 |
| 11 | CEILING LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RCPT STAGE FRONT | 12 |
| 13 | CEILING LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | WHITE OR [UNREADABLE] | 14 |
| 15 | CEILING LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | OUTSIDE LIGHT & RCPT | 16 |
| 17 | EXIT LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | ROOF FAN | 18 |
| 19 | PROP. ROOM EX LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STAGE POCKET | 20 |
| 21 | STAGE REC. SCREEN, LIGHTS BY DOOR | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | STAGE POCKET | 22 |
| 23 | BLUE LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | STAGE POCKET | 24 |
| 25 | BORDER WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STAGE POCKET | 26 |
| 27 | RED | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LECTURERS SIGNAL P.A. | 28 |
| 29 | BLUE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | DOWNSTAIRS BASEMENT "OUR CLOCK" | 30 |
| 31 | WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | CEILING FANS | 32 |
| 33 | WHITE | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | CEILING FANS | 34 |
| 35 | WHITE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | CUST. OFFICE | 36 |
| 37 | WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | OUTLETS RM 110 | 38 |
| 39 | WHITE | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | COPIER OUTLET | 40 |
| 41 | A.C. OUTLET RM 110 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | A/C COPY RM 0 | 42 |

# NAME: LPA — PANEL SCHEDULE

| MOUNTING: RECESSED | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: GYPSUM /TILE | | LOCATION: CORRIDOR 101C | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LGT MUSIC ROOM | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | REC. LIBRARY | 2 |
| 3 | LGT MUSIC ROOM | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LGT STORAGE 132 | 4 |
| 5 | LGT MUSIC ROOM REC. | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT LIBRARY | 6 |
| 7 | V.C. HALL 131 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | LGT STORAGE | 8 |
| 9 | LGT CORR. 131 / RCPT LIBRARY WALL | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | SPARE | 10 |
| 11 | STORAGE 124, 125, 127, 128, 129 / FAC. BATHROOMS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT LIBRARY OR READ ROOM | 12 |
| 13 | BOYS & GIRLS TOILETS 123-126 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | LGT LIBRARY | 14 |
| 15 | TIME CLOCK UV RM. 131 & LIBRARY | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LGT TUNNEL | 16 |
| 17 | RCPT FAC. RM | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT TUNNEL | 18 |
| 19 | LGT HALL 131 3WAY | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | A/C ROOM # CONFERENCEC RM | 20 |
| 21 | V.C. HALL 131 WEST | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | SPOT LGTS or A/C WINDOW STRIP SMALL LIBRARY | 22 |
| 23 | V.C. HALL 131 EAST | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 24 |
| 25 | R.F. J.C. 125 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 26 |
| 27 | LGT EAST CORR. | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 28 |
| 29 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 20 | -- | -- | A/C RM 134 | 30 |
| 31 | ROOF FAN | -- | -- | 15 | 3 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 32 |
| 33 | -- | -- | -- | -- | -- | | 0 | | | **0** | | **1** | **20** | **--** | **--** | **SPARE** | **34** |
| 35 | -- | -- | -- | -- | -- | | | 0 | | | **0** | **1** | **20** | **--** | **--** | **SPARE** | **36** |
| 37 | ROOF FAN | -- | -- | 15 | 3 | 0 | | | **0** | | | **1** | **20** | **--** | **--** | **SPARE** | **38** |
| 39 | -- | -- | -- | -- | -- | | 0 | | | **0** | | **1** | **20** | **--** | **--** | **SPARE** | **40** |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | **0** | **1** | **20** | **--** | **--** | **SPARE** | **42** |

# NAME: LPK — PANEL SCHEDULE

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: STORAGE C121 | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXISTING LOAD | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | FAN OUTLET | 2 |
| 3 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT KITCHEN NO. WALL | 4 |
| 5 | "ALL PURPOSE" | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | TRAULSEN FREEZER | 6 |
| 7 | "ALL PURPOSE" | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SIEMENS PWR SUPP | 8 |
| 9 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | A/C RM 122B | 10 |
| 11 | "ALL PURPOSE" | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | MILK CASE | 12 |
| 13 | "ALL PURPOSE" | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | REFIG. - NEW KIT. | 14 |
| 15 | "ALL PURPOSE" | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | POTATO PEELER | 16 |
| 17 | RCPT. ALL. PURP. | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | KITCHEN LIGHTS | 18 |
| 19 | REC. EMERG. LGT. | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | KITCHEN LIGHTS | 20 |
| 21 | REC. ALL PURP. RM. | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | A/C SOCIAL WORKERS OFFICES or STEAM TABLE | 22 |
| 23 | SHELTER LGTS & CAN WASH | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | A/C SOCIAL WORKERS OFFICES or STEAM TABLE | 24 |
| 25 | HEAT BLOWERS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | FREEZER | 26 |
| 27 | RCPT KITCHEN | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | FREEZER | 28 |
| 29 | RCPT KITCHEN | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 30 |
| 31 | DISH WASHER | -- | -- | 15 | 3 | 0 | | | **720** | | | **1** | **20** | **#12** | **720** | **RECEPT** | **32** |
| 33 | -- | -- | -- | -- | -- | | 0 | | | 0 | | 2 | 20 | -- | -- | SPARE | 34 |
| 35 | -- | -- | -- | -- | -- | | | 0 | | | 0 | -- | -- | -- | -- | -- | 36 |
| 37 | CAN. WASHING MACHINE | -- | -- | 15 | 3 | 0 | | | 0 | | | 1 | 20 | -- | -- | RCPT NEW KITCHEN | 38 |
| 39 | -- | -- | -- | -- | -- | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT NEW KITCHEN | 40 |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | -- | 1 | -- | -- | -- | - | 42 |

# NAME: STAGE — PANEL SCHEDULE

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 225 A | MCB: MLO | MIN AIC RATING: | AMPS RMS SYM |
| OTHER: | | LOCATION: PLATFORM C142 | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPOT LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RED | 2 |
| 3 | SPOT LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WHITE | 4 |
| 5 | CEILING LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | WHITE | 6 |
| 7 | CEILING LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | WHITE | 8 |
| 9 | CEILING LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WHITE | 10 |
| 11 | CEILING LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RCPT STAGE FRONT | 12 |
| 13 | CEILING LIGHTING | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 14 |
| 15 | CEILING LIGHTING | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | OUTISDE LIGHT + RCPT | 16 |
| 17 | EXIT LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | ROOF FAN | 18 |
| 19 | PROP. ROOM EX LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STAGE POCKET | 20 |
| 21 | STAGE REC. SCREN, LIGHTS BY DOOR | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | STAGE POCKET | 22 |
| 23 | BLUE LIGHTING | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | STAGE POCKET | 24 |
| 25 | BORDER WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STAGE POCKET | 26 |
| 27 | RED | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | LECTURERS SIGNAL PA | 28 |
| 29 | BLUE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | DOWNSTAIRS BASEMENT "OUR CLOCK" | 30 |
| 31 | WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | CEILING FANS | 32 |
| 33 | WHITE | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | CEILING FANS | 34 |
| 35 | WHITE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | CUST. OFFICE | 36 |
| 37 | WHITE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RCPT RM 110 | 38 |
| 39 | WHITE | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | COPIER OUTLET | 40 |
| 41 | A/C RCPT RM 110 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | A/C COPY RM 0 | 42 |

# NAME: LPB — EXISTING PANEL TO BE REMOVED

| MOUNTING: RECESSED | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: | AMPS RMS SYM |
| OTHER: GYPSUM /TILE | | LOCATION: CORRIDOR 101C | |

**NOTES:**

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXISTING LOAD LIBRARY | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT LIB, 128, 136 | 2 |
| 3 | EXISTING LOAD LIBRARY | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | CLOCK & BLOWERS | 4 |
| 5 | EXISTING LOAD RM 127 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | BLOWERS | 6 |
| 7 | EXISTING LOAD RM 127 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT CLASSROOM | 8 |
| 9 | EXISTING LOAD RM 128 | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | RM 130 A/C | 10 |
| 11 | EXISTING LOAD RM 128 | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 12 |
| 13 | EXISTING LOAD RM 129 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SPARE | 14 |
| 15 | EXISTING LOAD RM 129 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RECEPT CORR SOUTH | 16 |
| 17 | EXISTING LOAD RM 130 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT CORR | 18 |
| 19 | EXISTING LOAD RM 130 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT CORRIDOR | 20 |
| 21 | EXISTING LOAD RM 131 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RECEPT CORRIDOR | 22 |
| 23 | EXISTING LOAD RM 131 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RECEPT COMPUTER I.G. LIBRARY | 24 |
| 25 | EXISTING LOAD RM 132 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT COMPUTER I.G. LIBRARY | 26 |
| 27 | EXISTING LOAD RM 132 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 28 |
| 29 | EXISTING LOAD RM 133 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 30 |
| 31 | EXISTING LOAD RM 133 | -- | -- | 20 | 1 | 0 | | | 0 | | | 2 | 30 | -- | -- | EXISTING LOAD | 32 |
| 33 | EXISTING LOAD RM 134 | -- | -- | 20 | 1 | | 0 | | | 0 | | -- | -- | -- | -- | -- | 34 |
| 35 | EXISTING LOAD RM 134 | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 20 | -- | -- | RM 131 A/C | 36 |
| 37 | EXISTING LOAD RM 135 | -- | -- | 20 | 1 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 38 |
| 39 | EXISTING LOAD RM 135 | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | RM 132 A/C | 40 |
| 41 | EXISTING LOAD RMS 130-132-134 | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 42 |

# NAME: GYM — EXISTING PANEL TO BE REMOVED

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 100 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: STORAGE C229 | |

**NOTES:**

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LGT GYM EM | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SIEMENS C/P | 2 |
| 3 | LGT GYM NORTH | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT LOBBY | 4 |
| 5 | LGT GYM | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | HEATER LOBBY | 6 |
| 7 | LGT GYM | -- | -- | 20 | 1 | 0 | | | -- | | | 1 | -- | -- | -- | - | 8 |
| 9 | LGT GYM SOUTH | -- | -- | 20 | 1 | | 0 | | | -- | | 1 | -- | -- | -- | - | 10 |
| 11 | GYM EME. LIGHTS PACK | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 12 |
| 13 | EXIT LIGHTS IN GYM | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 14 |
| 15 | LOBBY LIGHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 16 |
| 17 | LOBBY LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | JOHNSON CONTROLS & FANS START CIRCUITS | 18 |
| 19 | DRESSING ROOM, REPEATER / N. PE OFFICE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SOUTH GYM FAN EXH. FAN ONLY | 20 |
| 21 | EXISTING LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | NORTH GYM FAN EXH. FAN ONLY | 22 |
| 23 | STORAGE LIGHTS, S. PE OFFICE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | DRESSER ROOM FAN EXH. FAN LOOCKER ROOM | 24 |
| 25 | OUTSIDE LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STORAGE FAN EXHAUST FAN | 26 |
| 27 | TUNNEL LGIHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT GYM | 28 |
| 29 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RCPT GYM | 30 |
| 31 | EXISTING LOAD | -- | -- | 20 | 1 | 0 | | | 0 | | | 3 | 20 | -- | -- | NORTH AIR UNIT GYM | 32 |
| 33 | EXISTING LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | -- | -- | -- | -- | -- | 34 |
| 35 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 36 |
| 37 | ROLLING DOORS | -- | -- | 20 | 3 | 0 | | | 0 | | | 3 | 20 | -- | -- | SOUTH AIR UNIT GYM | 38 |
| 39 | -- | -- | -- | -- | -- | | 0 | | | 0 | | -- | -- | -- | -- | -- | 40 |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | 0 | -- | -- | -- | -- | -- | 42 |

# NAME: MEP1 — EXISTING PANEL TO BE REMOVED

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 100 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: BOILER RM. C158 | |

**NOTES:**
1 OF 1. FED FROM MDP

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | -- | -- | -- | 1 | -- | | | -- | | | 1 | -- | -- | -- | - | 2 |
| 3 | - | -- | -- | -- | 1 | | -- | | | -- | | 1 | -- | -- | -- | - | 4 |
| 5 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 30 | -- | -- | DRYER | 6 |
| 7 | EXIT LIGHTS PHOTOCELL | -- | -- | 20 | 1 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 8 |
| 9 | EXTERIOR LIGHT | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WASHER | 10 |
| 11 | EXIT LIGHTS EM. LITE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 12 |
| 13 | EXIT LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 14 |
| 15 | EMERGENCY LIGHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 16 |
| 17 | EMERGENCY LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 18 |
| 19 | EXIT/EMERGENCY LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 20 |
| 21 | EXISTING LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 22 |
| 23 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 24 |

# NAME: MEP1 — PANEL SCHEDULE

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 100 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: BOILER RM. C158 | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **SPARE** | **--** | **--** | **20** | **1** | **0** | | | **0** | | | **1** | **20** | **--** | **--** | **SPARE** | **2** |
| **3** | **SPARE** | **--** | **--** | **20** | **1** | | **0** | | | **0** | | **1** | **20** | **--** | **--** | **SPARE** | **4** |
| 5 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 30 | -- | -- | DRYER | 6 |
| 7 | EXIT LIGHTS PHTOCELL | -- | -- | 20 | 1 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 8 |
| 9 | EXTERIOR LIGHT | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | WASHER | 10 |
| 11 | EXIT LIGHTS EM. LITE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 12 |
| 13 | EXIT LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 14 |
| 15 | EMERGENCY LIGHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 16 |
| 17 | EMERGENCY LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 18 |
| 19 | EXIT/EMERGENCY LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 20 |
| 21 | EXISTING LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 22 |
| **23** | **RECEPT** | **720** | **#12** | **20** | **1** | | | **720** | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 24 |

# NAME: LPB — PANEL SCHEDULE

| MOUNTING: RECESSED | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 200 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: GYPSUM /TILE | | LOCATION: CORRIDOR 101C | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXISTING LOAD RM LIBRARY | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPTS LIBRARY, 128, 136 | 2 |
| 3 | EXISTING LOAD RM LIBRARY | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | CLOCK & BLOWERS | 4 |
| 5 | EXISTING LOAD RM 127 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | BLOWERS | 6 |
| 7 | EXISTING LOAD RM 127 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT CLASSROOM | 8 |
| 9 | EXISTING LOAD RM 128 | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | RM 130 A/C | 10 |
| 11 | EXISTING LOAD RM 128 | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 12 |
| 13 | EXISTING LOAD RM 129 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SPARE | 14 |
| 15 | EXISTING LOAD RM 129 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RECEPT CORR SOUTH | 16 |
| 17 | EXISTING LOAD RM 130 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | LGT CORR | 18 |
| 19 | EXISTING LOAD RM 130 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT CORRIDOR | 20 |
| 21 | EEXISTING LOAD RM 131 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RECEPT CORRIDOR | 22 |
| 23 | EXISTING LOAD RM 132 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RECEPT COMPUTER I.G. LIBRARY | 24 |
| 25 | EXISTING LOAD RM 132 | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | RECEPT COMPUTER I.G. LIBRARY | 26 |
| 27 | EXISTING LOAD RM 133 | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 28 |
| 29 | EXISTING LOAD RM 133 | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 30 |
| 31 | EXISTING LOAD RM 133 | -- | -- | 20 | 1 | 0 | | | 0 | | | 2 | 30 | -- | -- | EXISTING LOAD | 32 |
| 33 | EXISTING LOAD RM 134 | -- | -- | 20 | 1 | | 0 | | | 0 | | -- | -- | -- | -- | -- | 34 |
| 35 | EXISTING LOAD RM 134 | -- | -- | 20 | 1 | | | 0 | | | 0 | 2 | 20 | -- | -- | RM 131 A/C | 36 |
| 37 | EXISTING LOAD RM 135 | -- | -- | 20 | 1 | 0 | | | 0 | | | -- | -- | -- | -- | -- | 38 |
| 39 | EXISTING LOAD RM 135 | -- | -- | 20 | 1 | | 0 | | | 0 | | 2 | 20 | -- | -- | RM 132 A/C | 40 |
| 41 | EXISTING LOAD RMS 130,132,134 | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 42 |

# NAME: GYM — PANEL SCHEDULE

| MOUNTING: SURFACE | VOLTS: 208Y/120 | PHASE: 3 | WIRE: 4 |
|---|---|---|---|
| MAIN RATING: 100 A | MCB: MLO | MIN AIC RATING: 10,000 | AMPS RMS SYM |
| OTHER: | | LOCATION: STORAGE C229 | |

**NOTES:**
1 OF 1

| CKT | DESCRIPTION | LOAD | WIRE | BKR | P | A | B | C | A | B | C | P | BKR | WIRE | LOAD | DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LGT GYM EM. | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SIEMENS C/P | 2 |
| 3 | LGT GYM NORTH | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPTLOBBY | 4 |
| 5 | LGT GYM | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | HEATER LOBBY | 6 |
| 7 | LGT GYM | -- | -- | 20 | 1 | 0 | | | -- | | | 1 | -- | -- | -- | - | 8 |
| 9 | LGT GYM SOUTH | -- | -- | 20 | 1 | | 0 | | | -- | | 1 | -- | -- | -- | - | 10 |
| 11 | GYM EM. LIGHTS PACK | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | EXISTING LOAD | 12 |
| 13 | EXIT LIGHTS IN GYM | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | EXISTING LOAD | 14 |
| 15 | LOBBY LIGHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | EXISTING LOAD | 16 |
| 17 | LOBBY LIGHTS | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | JOHNSON CONTROLS & FANS START CIRCUITS | 18 |
| 19 | DRESSING ROOM, REPEATER / N. PE OFFICE | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | SOUTH GYM FAN EXH. FAN ONLY | 20 |
| 21 | EXISTING LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | NORTH GYM FAN EXH. FAN ONLY | 22 |
| 23 | STORAGE LIGHTS, S. PE OFFICE | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | DRESSER ROOM FAN EXH. FAN LOCKER ROOM | 24 |
| 25 | OUTSIDE LIGHTS | -- | -- | 20 | 1 | 0 | | | 0 | | | 1 | 20 | -- | -- | STORAGE FAN EXHAUST FAN | 26 |
| 27 | TUNNEL LIGHTS | -- | -- | 20 | 1 | | 0 | | | 0 | | 1 | 20 | -- | -- | RCPT GYM | 28 |
| 29 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | 1 | 20 | -- | -- | RCPT GYM | 30 |
| 31 | EXISTING LOAD | -- | -- | 20 | 1 | 0 | | | 0 | | | 3 | 20 | -- | -- | NORTH AIR UNIT GYM | 32 |
| 33 | EXISITNG LOAD | -- | -- | 20 | 1 | | 0 | | | 0 | | -- | -- | -- | -- | -- | 34 |
| 35 | EXISTING LOAD | -- | -- | 20 | 1 | | | 0 | | | 0 | -- | -- | -- | -- | -- | 36 |
| 37 | ROLLING DOORS | -- | -- | 20 | 3 | 0 | | | 0 | | | 3 | 20 | -- | -- | SPARE | 38 |
| 39 | -- | -- | -- | -- | -- | | 0 | | | 0 | | -- | -- | -- | -- | -- | 40 |
| 41 | -- | -- | -- | -- | -- | | | 0 | | | 0 | -- | -- | -- | -- | -- | 42 |
| **43** | **EF-MS-15 Room C229** | **2376** | **3#12, #12G, 3/4"C** | **20** | **3** | **792** | | | **792** | | | **3** | **20** | **3#12, #12G, 3/4"C** | **2376** | **EF-MS-14 Room C229** | **44** |
| **45** | **--** | **--** | **--** | **--** | **--** | | **792** | | | **792** | | **--** | **--** | **--** | **--** | **--** | **46** |
| **47** | **--** | **--** | **--** | **--** | **--** | | | **792** | | | **792** | **--** | **--** | **--** | **--** | **--** | **48** |
| **49** | **RECEPT** | **540** | **#12** | **20** | **1** | **540** | | | **0** | | | **1** | **20** | **--** | **--** | **SPARE** | **50** |
| **51** | **SPARE** | **--** | **--** | **20** | **1** | | **0** | | | **0** | | **1** | **20** | **--** | **--** | **SPARE** | **52** |
| **53** | **SPARE** | **--** | **--** | **20** | **1** | | | **0** | | | **0** | **1** | **20** | **--** | **--** | **SPARE** | **54** |


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REGISTRATION EXPIRES: 10/31/2023

NANUET

# NUFSD BOND PROJECTS PH 4 - G.W. MILLER ES

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☐ SED#50-01-08-03-0-004-021 (BARR MS)
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Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN

A B C D1 D2 E

REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:** PANEL SCHEDULES

**SHEET NUMBER:** ME-E601

ISSUE FOR BID SET

DRAWN BY: Author
CHECKED BY: Checker\JimT\Documents\NANUET-ME-ELEC PHASE 4_jimt-sage.rvt

4/30/2024 1:32:42 PM

PROJECT NUMBER: 2111003.00

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## GENERAL NOTES:

1. SEE BM-E001 FOR GENERAL PROJECT NOTES.

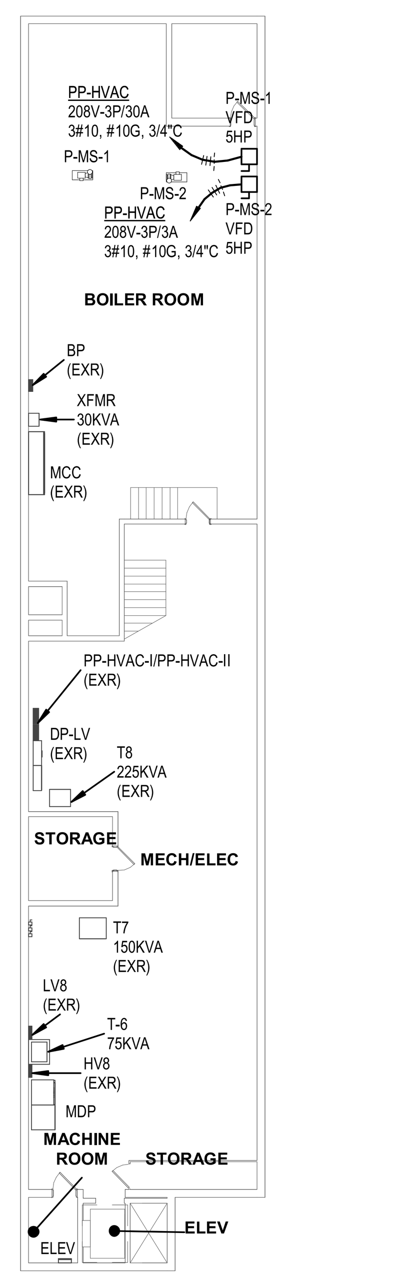
## KEYED NOTES:

(1) INSTALL PLUMBING CONTRACTOR FURNISHED FLUSH VALVE POWER SUPPLY. PROVIDE 12 VOLT WIRING IN CONDUIT AND JUNCTION BOXES FOR FLUSH VALVE SENSORS. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR.

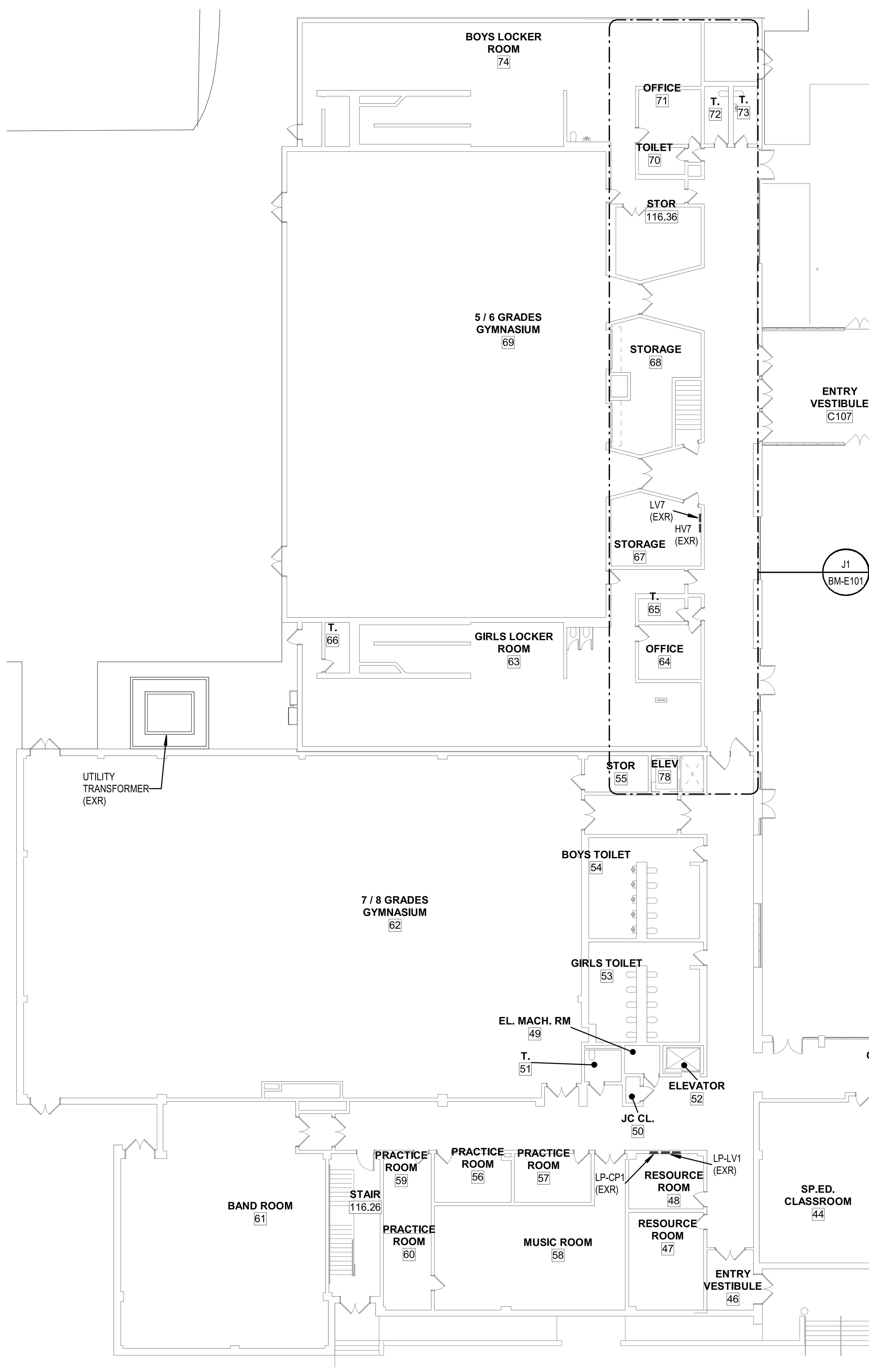
(2) SEE FIRE ALARM PLANS FOR FIRE ALARM DEVICE REMOVAL FROM CEILING.

(3) RECONNECT TO EXISTING LIGHTING CIRCUIT. PROVIDE #14 WIRE TO CONNECT THE LOW VOLTAGE SWITCH TO THE DEDICATED POWER PACK, AND ALSO THE OCCUPANCY SENSOR/SENSORS TO DEDICATED POWER PACK. THE LIGHTING CONTROLS SHALL BE AFTER 15 MINUTES THE LIGHTS WILL BE TURNED OFF, AND UPON DETECTION OF MOVEMENT THE LIGHTS WILL BE TURNED ON TO 100%.

(4) RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS

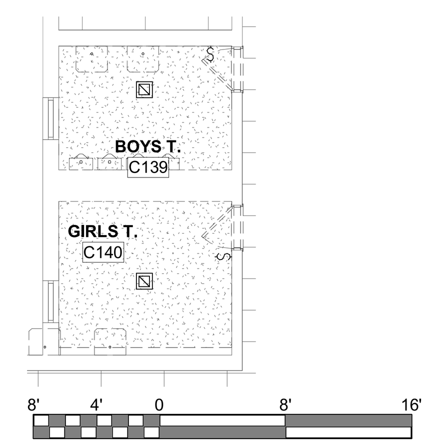



J1 LOWER LEVEL ELECTRICAL PLAN
1/16" = 1'-0"

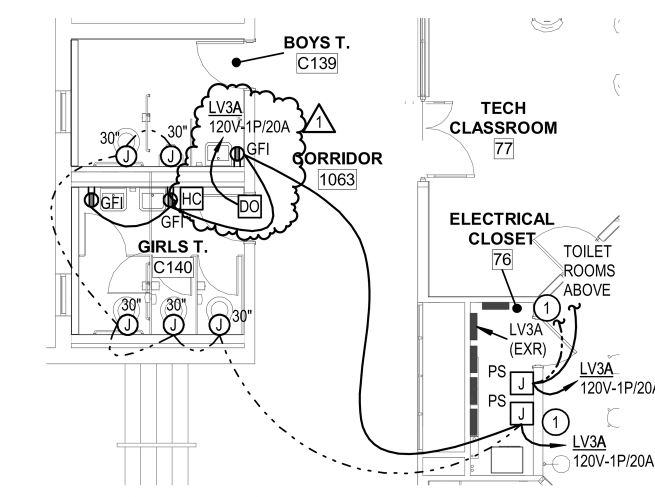



E12 OVERALL FIRST FLOOR ELECTRICAL PLAN
1/16" = 1'-0"

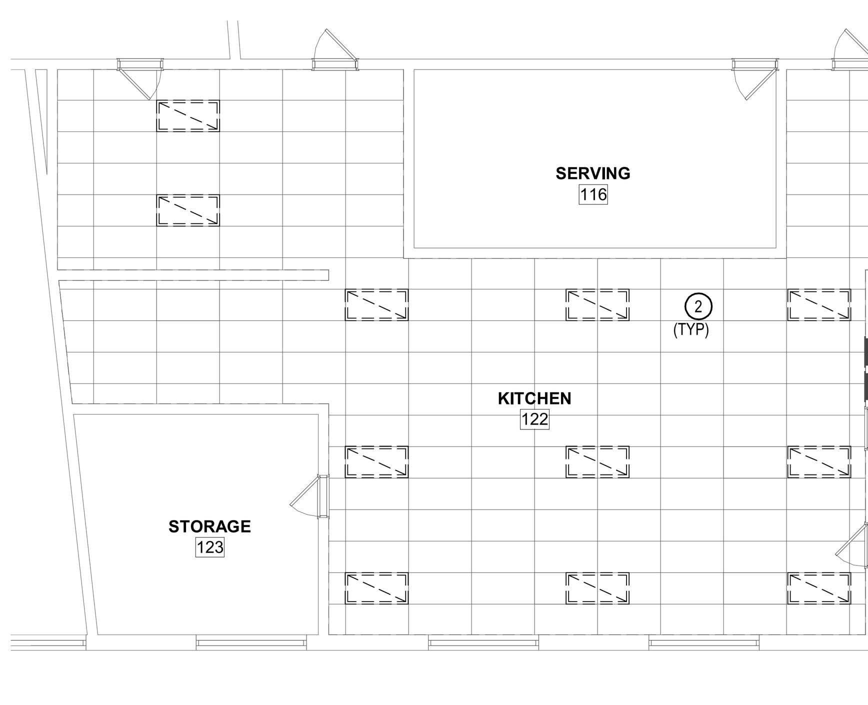
| LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NOTE: | | | | | | | | |
| TYPE | DESCRIPTION | MANUFACTURER | LAMP | | | | VOLTS | FIXTURE REMARKS |
| | | | TYPE | WATTS | LUMENS | COLOR | | |
| D2 | 6" RECESSED LED DOWNLIGHT, 1000 LUMENS, 0-10V DIMMING | COOPER LIGHTING #HC610D010-HM60205835-61MDH | LED | 10.1 W | 1000 lm | 3500 K | 120/277 | |
| F9 | RECESSED 2 X 4 LED ILLUMINATED PANEL WITH SMOOTH CLEAR WIPE-DOWN ACRYLIC LENS WITH GASKETS, WET LOCATON AND NSF LISTED | FAIL-SAFE #ENW-24-4-LD1-70-40-CA125-UNV-EDC1 | LED | 43.0 W | 5400 lm | 4000 K | 120/277 | EM-INDICATES EMERGENCY DRIVER -EL7W ADDED TO MANUFACTURER NUMBER |



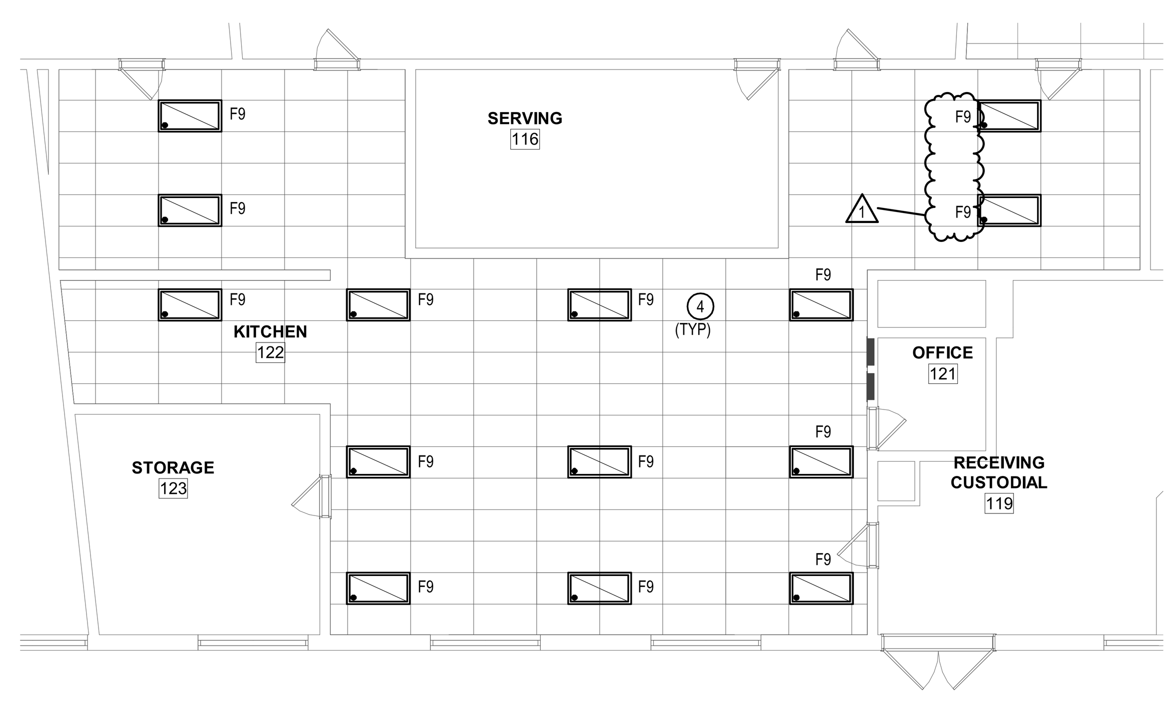

F3 FIRST FLOOR BATHROOM ELECTRICAL REMOVALS PLAN
1/8" = 1'-0"



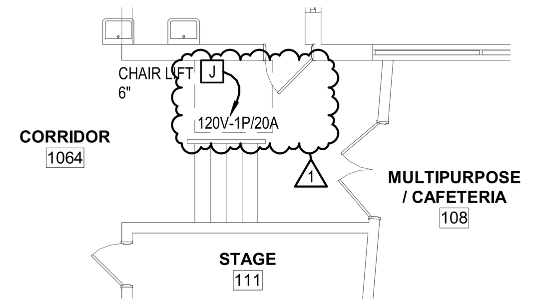

C3 FIRST FLOOR BATHROOM ELECTRICAL PLAN
1/8" = 1'-0"



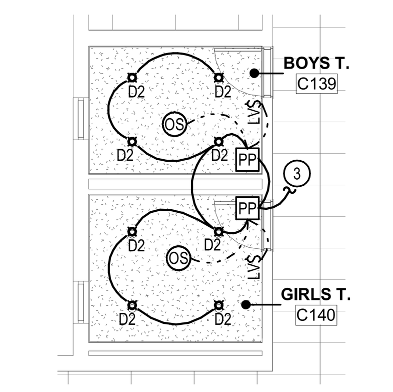

A18 KITCHEN ELECTRICAL REMOVALS
1/8" = 1'-0"




A13 KITCHEN LIGHTING PLAN
1/8" = 1'-0"




A6 CAFETERIA CHAIR LIFT ELECTRICAL PLAN
1/8" = 1'-0"




A3 FIRST FLOOR BATHROOM LIGHTING PLAN
1/8" = 1'-0"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# NUFSD BOND PROJECTS PH4

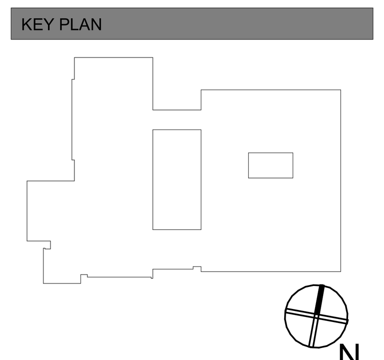
☐ SED#50-01-08-03-0-003-036 (NANUET HS)
■ SED#50-01-08-03-0-004-021 (BARR MS)
☐ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN



REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

ISSUED: BID SET ISSUANCE
DATE: FEB 6, 2024
SCALE: As indicated
SHEET NAME: FIRST FLOOR ELECTRICAL PLANS
SHEET NUMBER: BM-E101

ISSUE FOR BID SET

PROJECT NUMBER: 2211003.00

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## GENERAL NOTES:

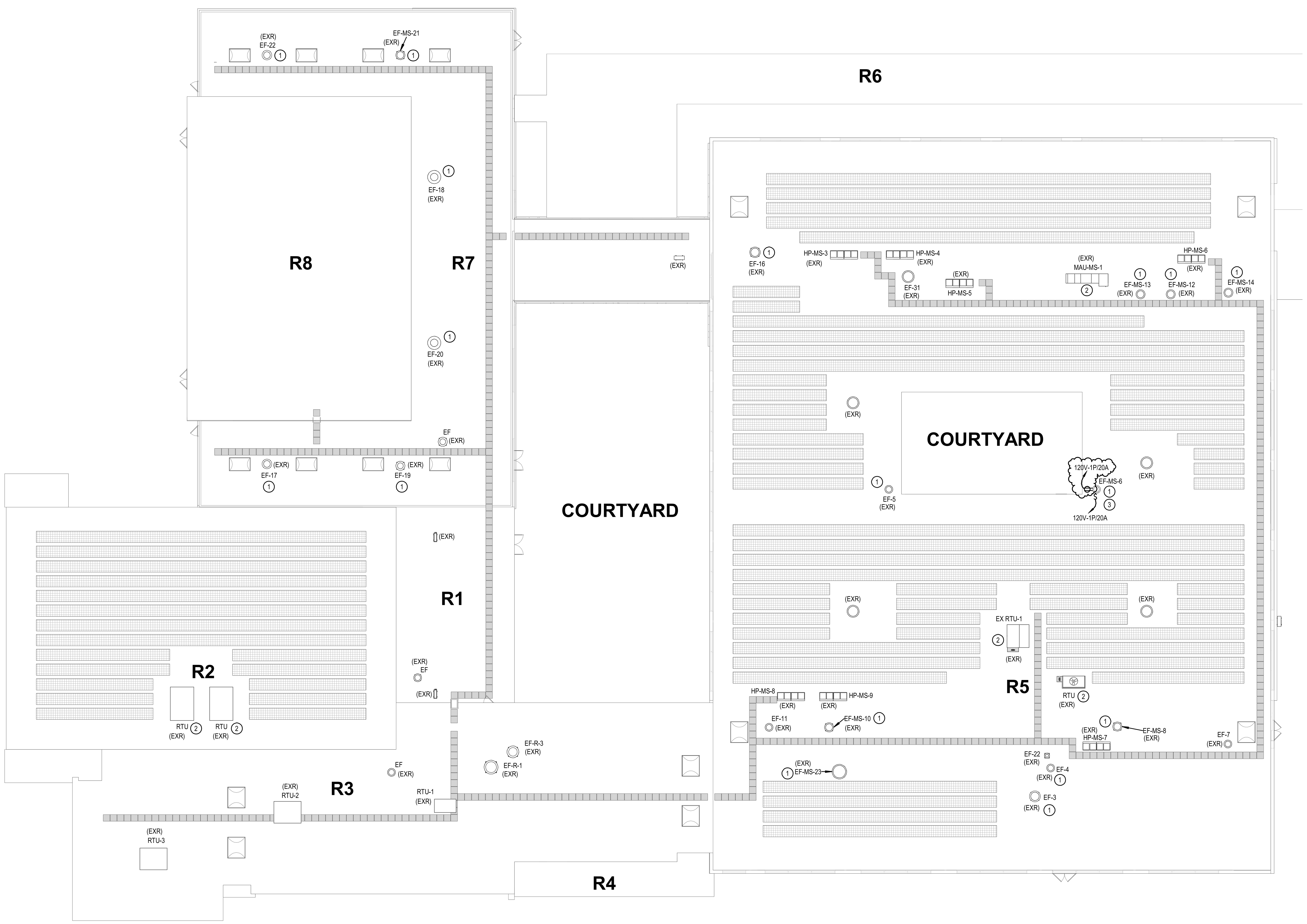
1. SEE BM-E001 FOR GENERAL PROJECT NOTES.

## KEYED NOTES:

(1) PROVIDE FIRE ALARM CONTROL RELAY TO SHUT DOWN INDICATED HVAC EQUIPMENT UPON ALARM OF FIRE ALARM SYSTEM.

(2) PROVIDE DUCT SMOKE DETECTOR IN THE IN THE SUPPLY AND RETURN DUCT OF INDICATED UNIT. LOCATE DUCT SMOKE DETECTORS UPSTREAM OF ALL BRANCHES. PROVIDE CONTROL RELAYS AS NECESSARY TO SHUT DOWN ROOFTOP UNIT THAT DUCTWORK RETURNS TOO. PROVIDE REMOTE DUCT TEST AND INDICATING STATION 6" BELOW FINISHED CEILING OR 8' AFF WHICHEVER IS LOWER. PROVIDE WIRING, INCLUDING ANY CONTROL WIRING, PER MANUFACTURERS INSTRUCTIONS.

(3) EXISTING EXHAUST FAN TO BE REPLACED. DISCONNECT, COIL-UP, AND PROTECT WIRES. RECEPTACLES MOUNTED ON ROOFTOP EQUIPMENT TO BE REPLACED OR RELOCATED. DISCONNECT, COIL-UP, AND PROTECT WIRES.




A18 ELECTRICAL ROOF PLAN
1/16" = 1'-0"

16' 8' 0 16' 32'

ARCHITECT

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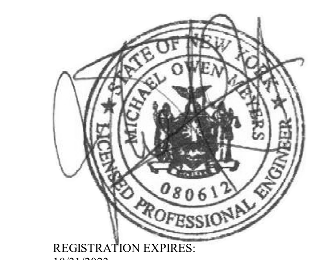

REGISTRATION EXPIRES: 10/31/2025

# NUFSD BOND PROJECTS PH4

☐ SED#50-01-08-03-0-003-036 (NANUET HS)
■ SED#50-01-08-03-0-004-021 (BARR MS)
☐ SED#50-01-08-03-0-001-025 (MILLER ES)

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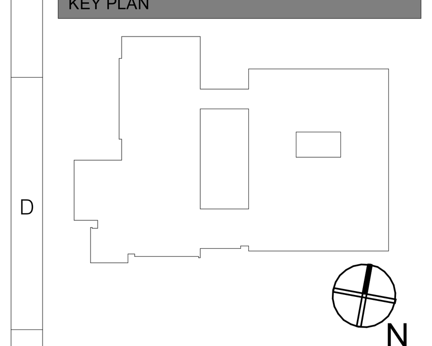
KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
ELECTRICAL ROOF PLAN

**SHEET NUMBER:**
BM-E103

ISSUE FOR BID SET

PROJECT NUMBER: 2211003.00

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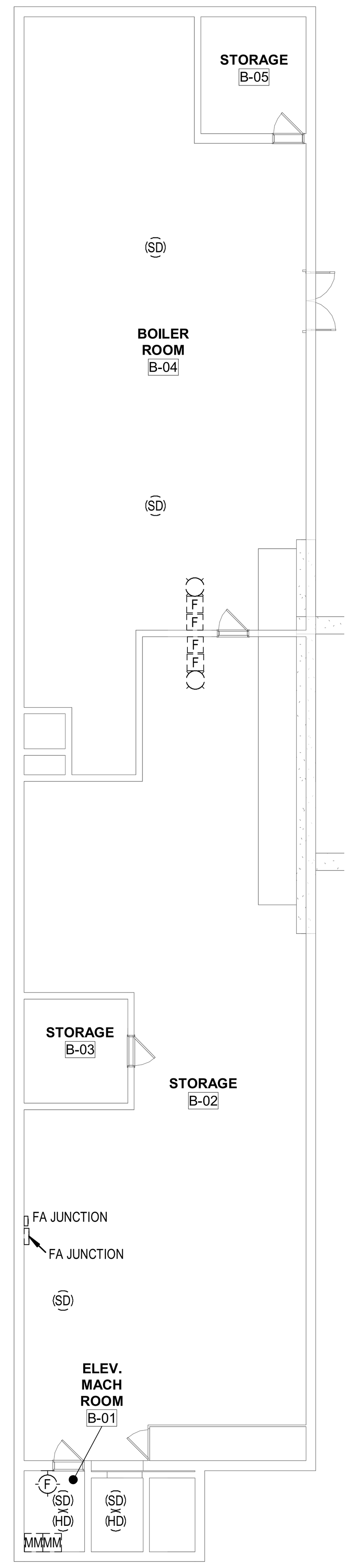
## GENERAL NOTES:

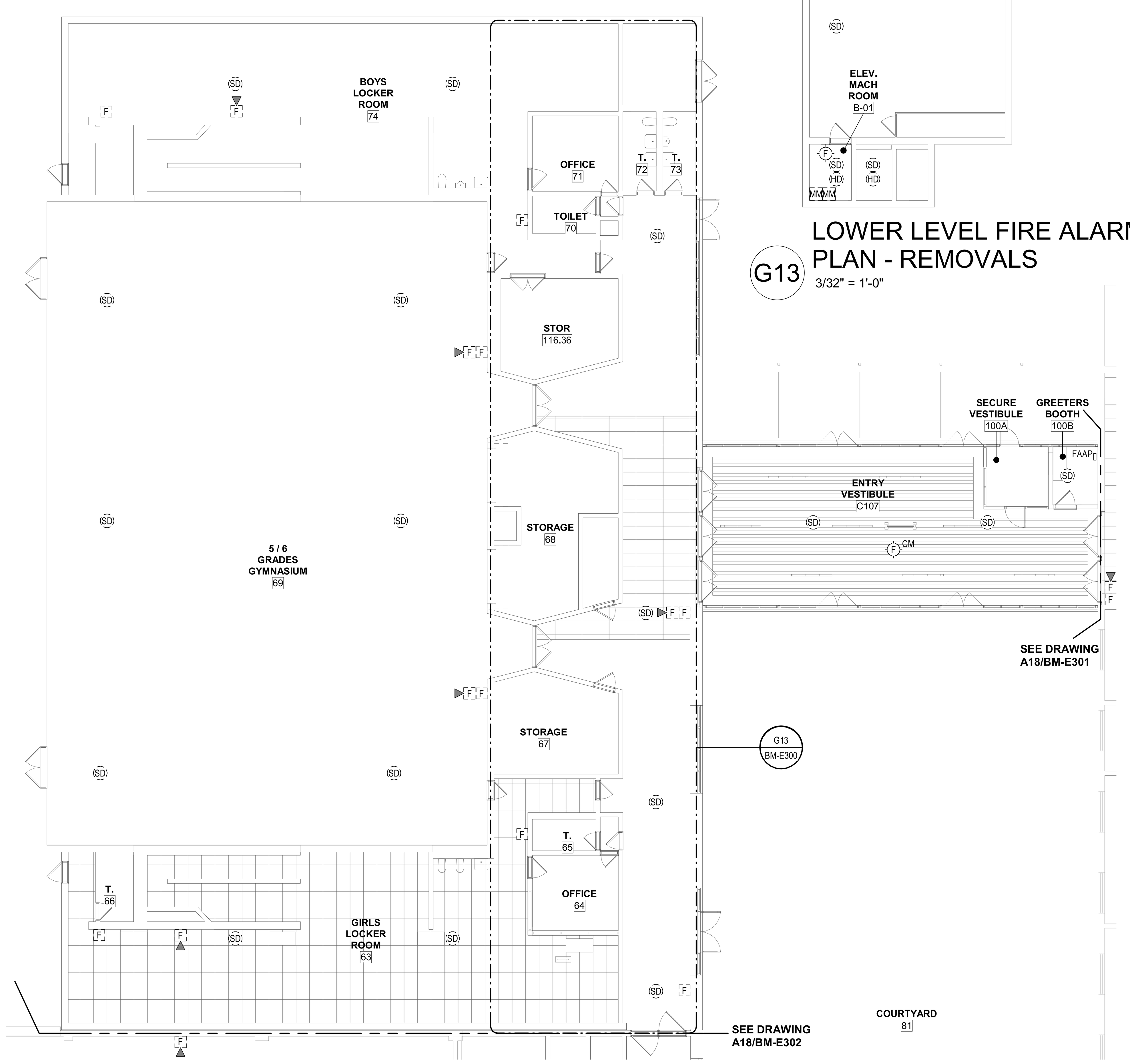
1. SEE SHEET BM-E001 FOR GENERAL PROJECT NOTES.
2. SEE SHEET BM-E103 FOR FIRE ALARM SHUT DOWN INFORMATION OF ROOFTOP EQUIPMENT.
3. SCOPE OF FIRE ALARM WORK AT BAR MIDDLE SCHOOL IS A COMPLETE SYSTEM REPLACEMENT, INCLUDING FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANELS (FAAP), INITIATING DEVICES, NOTIFICATION DEVICES, WIRING, RACEWAY, AND EMERGENCY CONTROL FUNCTION INTERFACE CONNECTIONS FOR HVAC FAN SHUTDOWN, ELEVATOR RECALL, DOOR RELEASE, SUPPRESSION SYSTEM MONITORING, AND CARBON MONOXIDE (CO) DETECTION AND ALARM.
4. THE ENTIRE EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND ACTIVE UNTIL THE ENTIRE NEW SYSTEM IN INSTALLED, TESTED, AND COMMISSIONED. ONCE NEW SYSTEM IS COMPLETE, REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY.

## KEYED NOTES:

(1) PROVIDE CONTROL MODULES FOR PRIMARY RECALL, SECONDARY RECALL, AND FIREFIGHTER HAT ILLUMINATED SYMBOL.

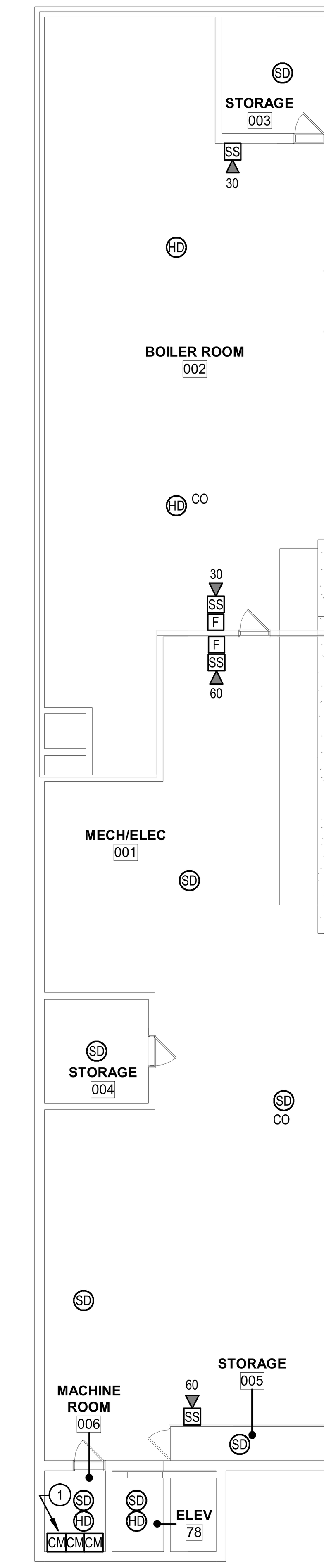



G13 LOWER LEVEL FIRE ALARM PLAN - REMOVALS
3/32" = 1'-0"

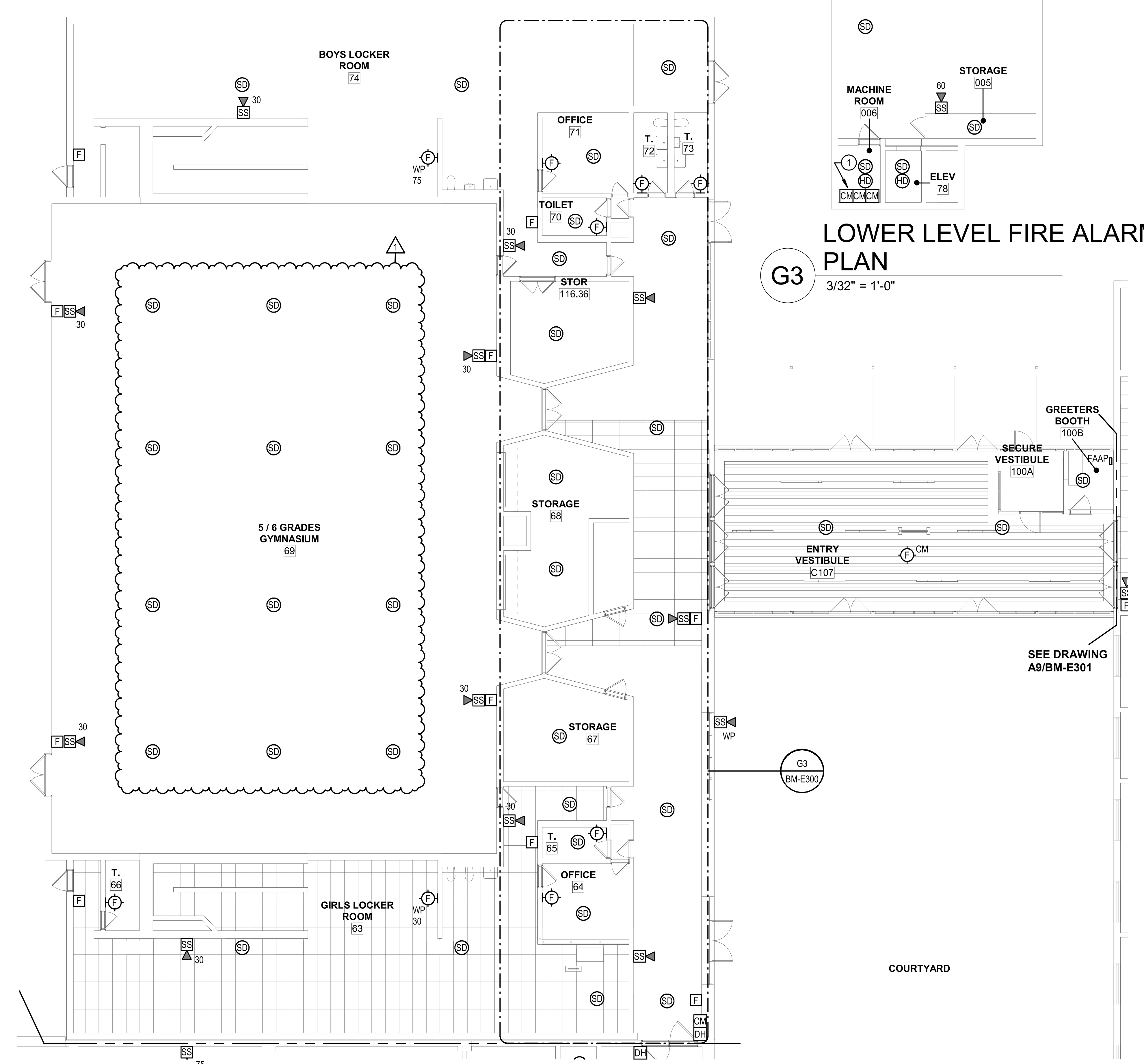



A18 PARTIAL FIRST FLOOR FIRE ALARM PLAN REMOVALS - WEST
3/32" = 1'-0"

8' 4' 0 8' 16' 24'




G3 LOWER LEVEL FIRE ALARM PLAN
3/32" = 1'-0"




A8 PARTIAL FIRST FLOOR FIRE ALARM PLAN - WEST
3/32" = 1'-0"

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REGISTRATION EXPIRES:
10/31/2025

# NUFSD BOND PROJECTS PH4

☐ SED#50-01-08-03-0-003-036 (NANUET HS)
■ SED#50-01-08-03-0-004-021 (BARR MS)
☐ SED#50-01-08-03-0-001-025 (MILLER ES)

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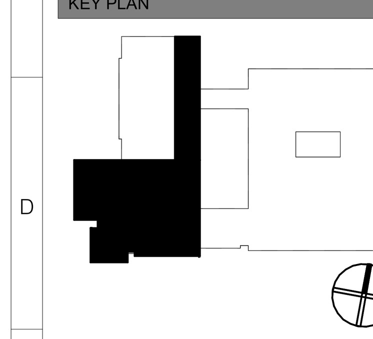
KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
LOWER LEVEL AND PARTIAL FIRST FLOOR FIRE ALARM - WEST

**SHEET NUMBER:**
BM-E300

ISSUE FOR BID SET

PROJECT NUMBER: 2211003.00

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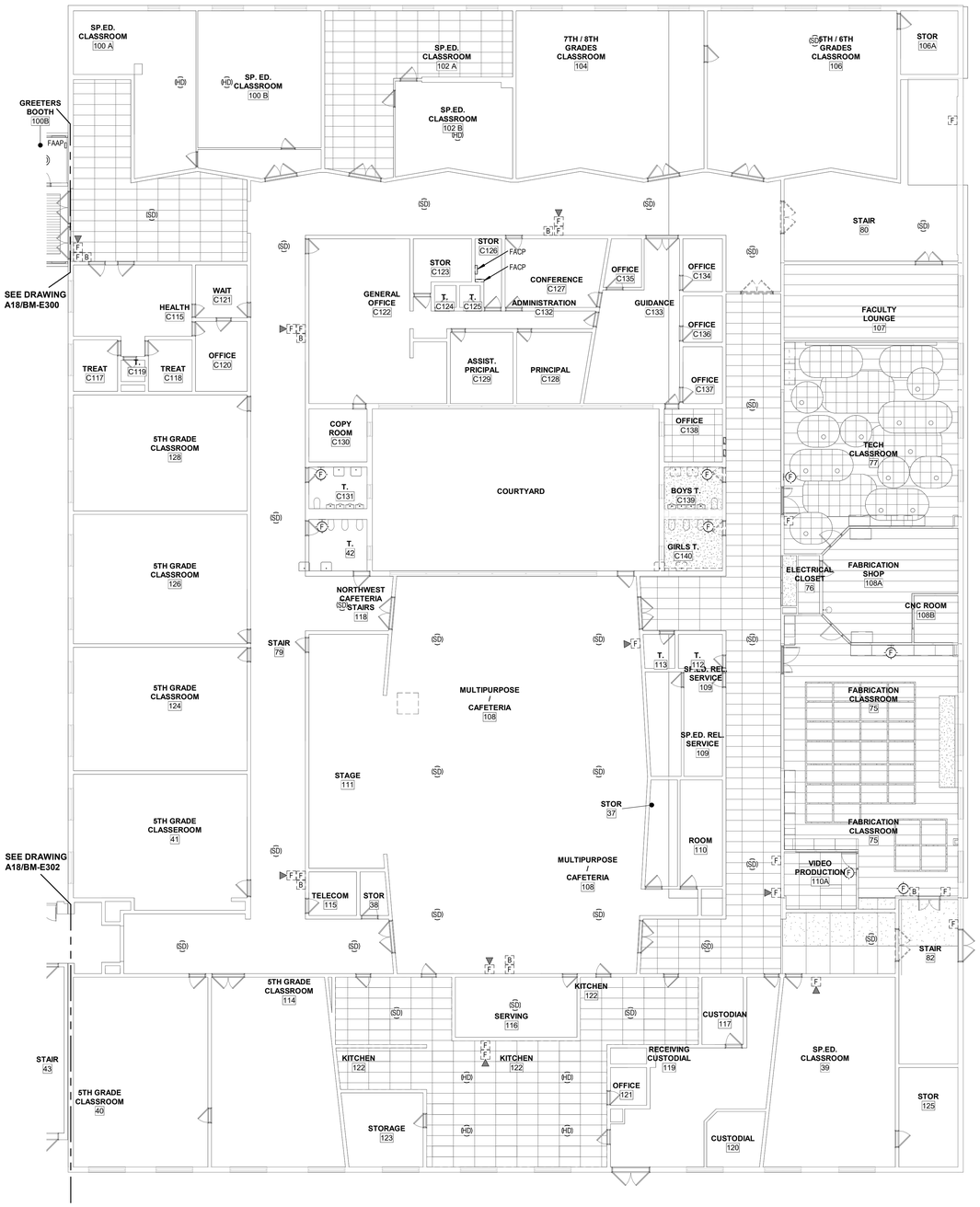
GENERAL NOTES:

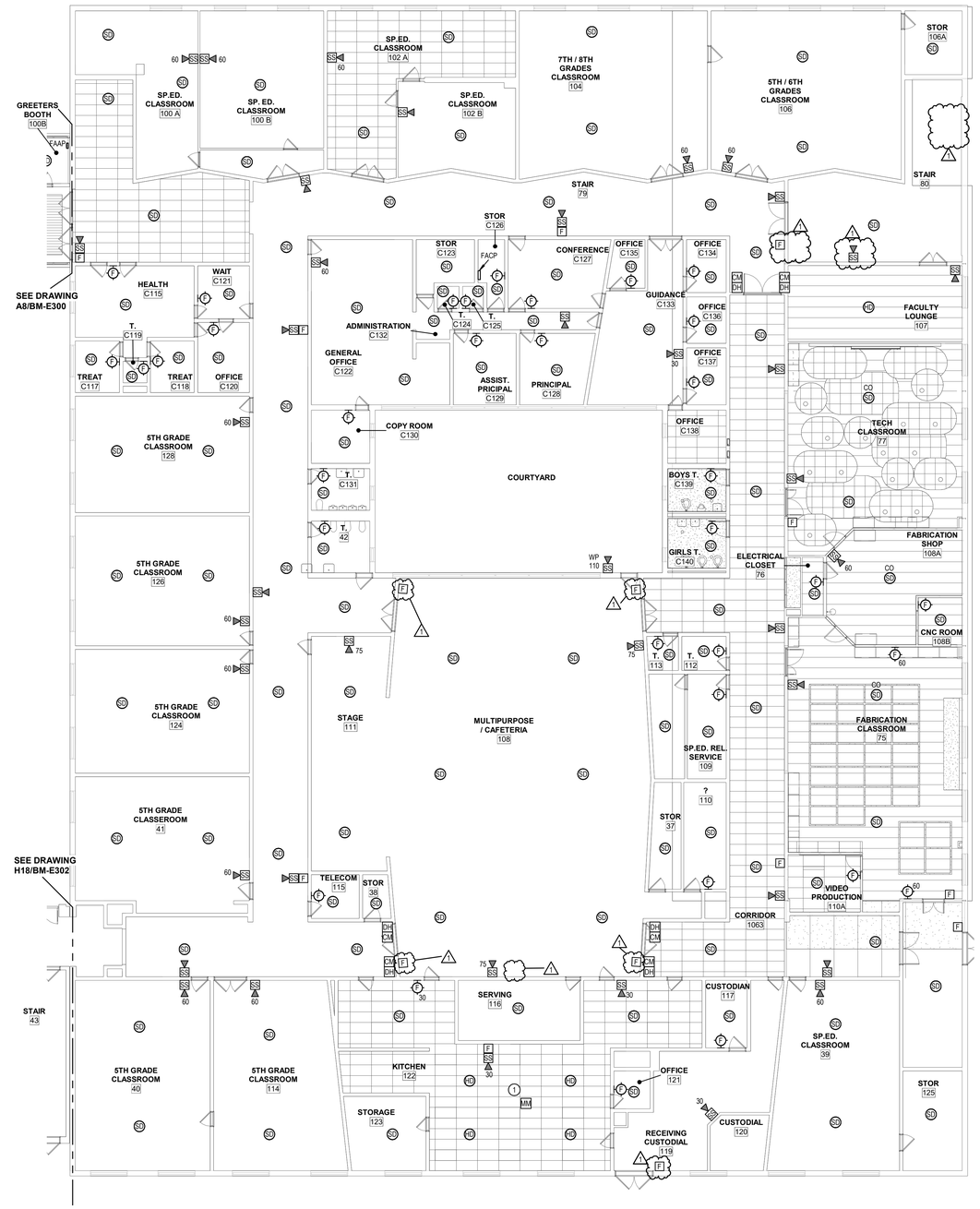
1. SEE SHEET BM-E001 FOR GENERAL PROJECT NOTES.
2. SEE SHEET BM-E103 FOR FIRE ALARM SHUT DOWN INFORMATION OF ROOFTOP EQUIPMENT.
3. SCOPE OF FIRE ALARM WORK AT BAR MIDDLE SCHOOL IS A COMPLETE SYSTEM REPLACEMENT, INCLUDING FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANELS (FAAP), INITIATING DEVICES, NOTIFICATION DEVICES, WIRING, RACEWAY, AND EMERGENCY CONTROL FUNCTION INTERFACE CONNECTIONS FOR HVAC FAN SHUTDOWN, ELEVATOR RECALL, DOOR RELEASE, SUPPRESSION SYSTEM MONITORING, AND CARBON MONOXIDE (CO) DETECTION AND ALARM.
4. THE ENTIRE EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND ACTIVE UNTIL THE ENTIRE NEW SYSTEM IN INSTALLED, TESTED, AND COMMISSIONED. ONCE NEW SYSTEM IS COMPLETE, REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY.

KEYED NOTES:

1. PROVIDE MONITOR MODULE AND CONNECT TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM.




A18 PARTIAL FIRST FLOOR FIRE ALARM PLAN REMOVAL - EAST
3/32" = 1'-0"




A9 PARTIAL FIRST FLOOR FIRE ALARM PLAN - EAST
3/32" = 1'-0"

8' 4' 0 8' 16' 24'

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REGISTRATION EXPIRES: 10/31/2023

NANUET

# NUFSD BOND PROJECTS PH4

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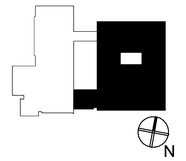
KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
PARTIAL FIRST FLOOR FIRE ALARM - EAST

**SHEET NUMBER:**

# BM-E301

ISSUE FOR BID SET

DRAWN BY: Author
CHECKED BY: Checker
Checker,Jim?Documents\NANUET BM-U,EC PHASE 4_jimsage.rvt
4/29/2024 5:45:58 PM

PROJECT NUMBER: 2211003.00

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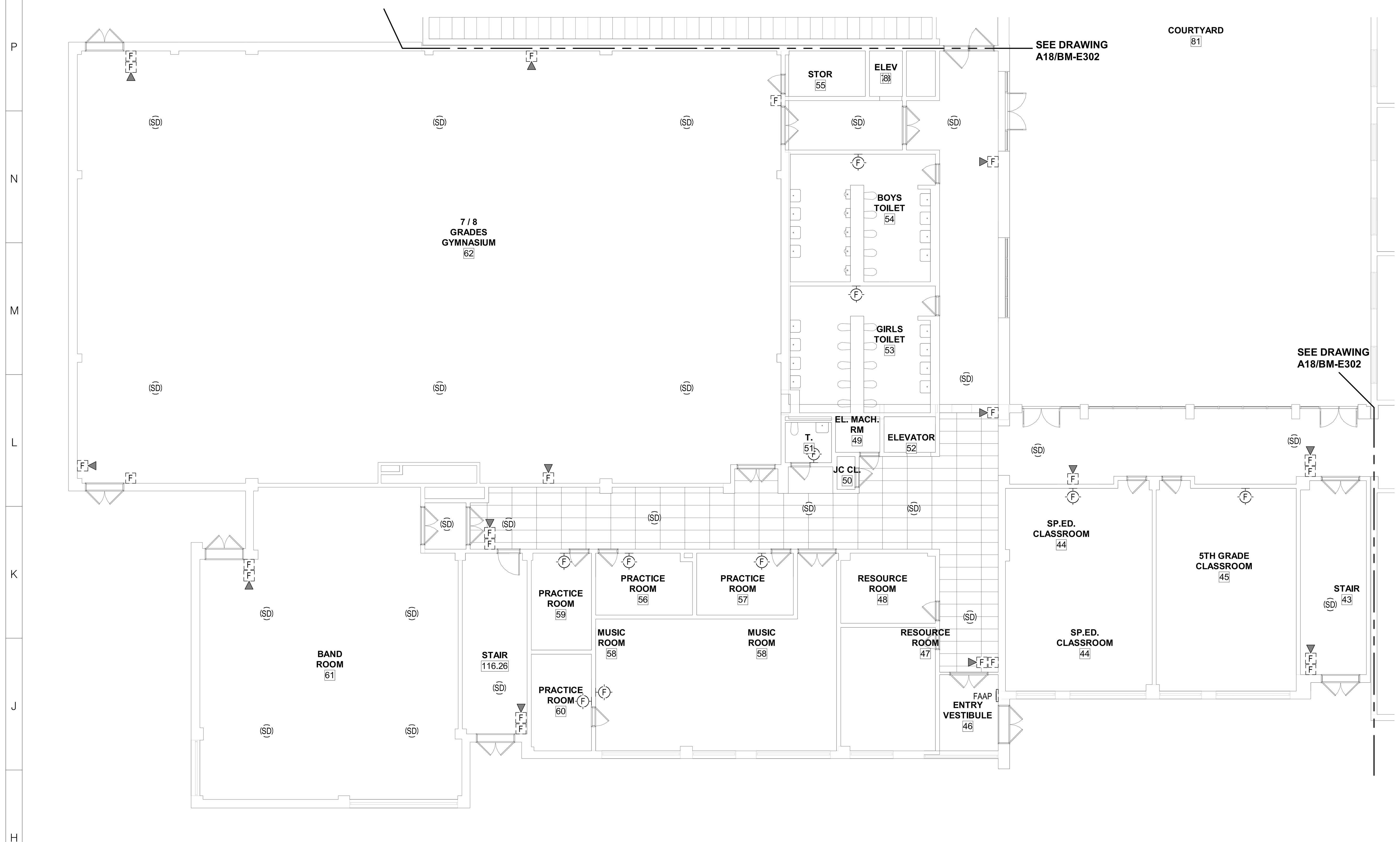
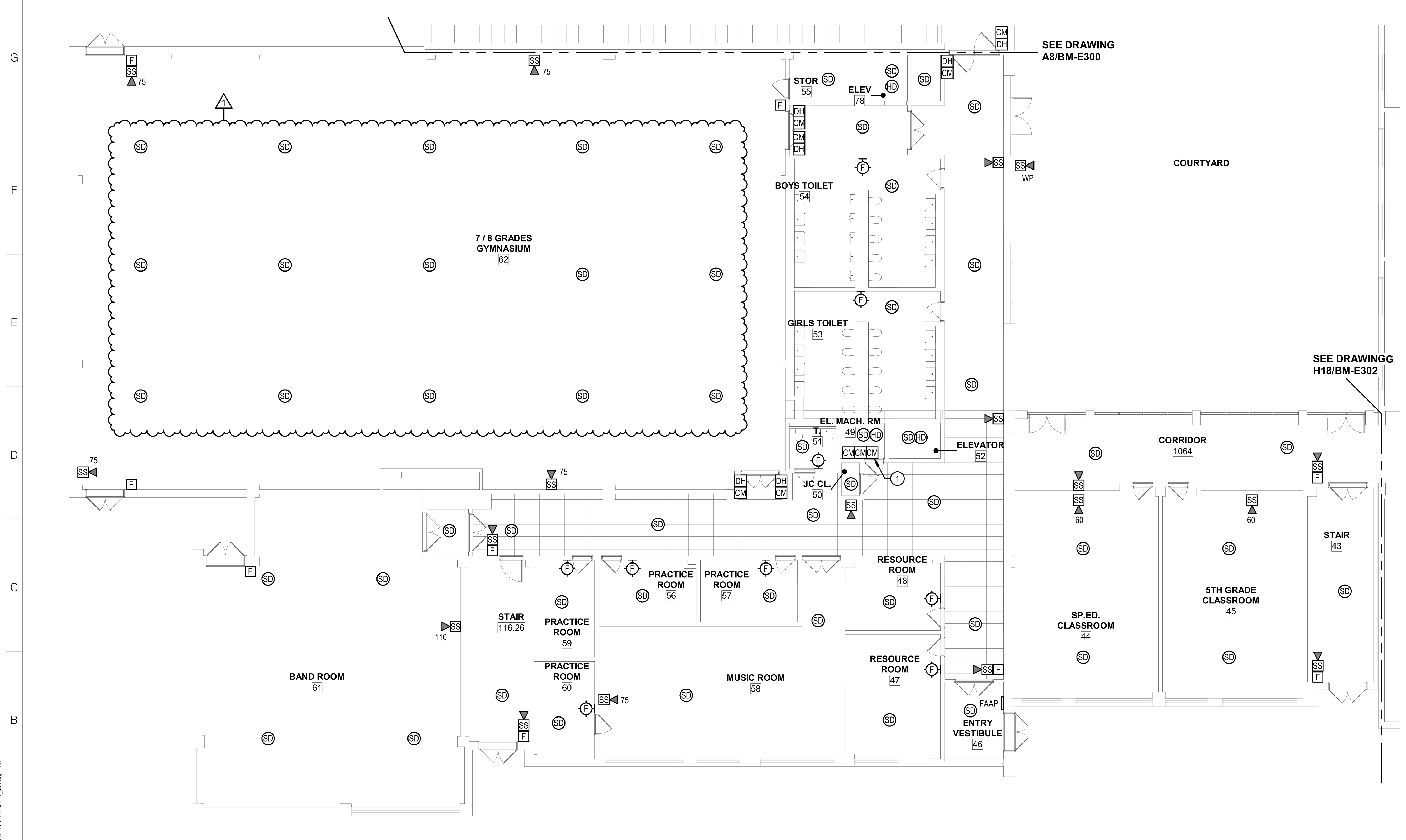



# H18 OVERALL FIRST FLOOR FIRE ALARM PLAN - SOUTH WEST

3/32" = 1'-0"




# A18 OVERALL FIRST FLOOR FIRE ALARM REMOVALS - SOUTH WEST

3/32" = 1'-0"

## GENERAL NOTES:

1. SEE SHEET BM-E001 FOR GENERAL PROJECT NOTES.
2. SEE SHEET BM-E103 FOR FIRE ALARM SHUT DOWN INFORMATION OF ROOFTOP EQUIPMENT.
3. SCOPE OF FIRE ALARM WORK AT BAR MIDDLE SCHOOL IS A COMPLETE SYSTEM REPLACEMENT, INCLUDING FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANELS (FAAP), INITIATING DEVICES, NOTIFICATION DEVICES, WIRING, RACEWAY, AND EMERGENCY CONTROL FUNCTION INTERFACE CONNECTIONS FOR HVAC FAN SHUTDOWN, ELEVATOR RECALL, DOOR RELEASE, SUPPRESSION SYSTEM MONITORING, AND CARBON MONOXIDE (CO) DETECTION AND ALARM.
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## KEYED NOTES:

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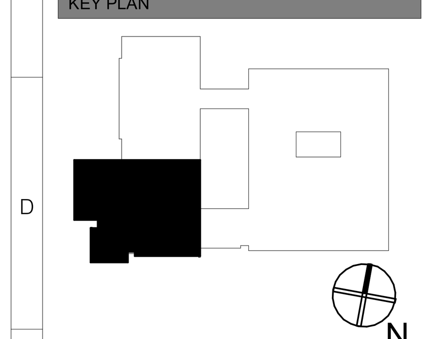
KEY PLAN




REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | BID ADDENDUM #7 | 05/01/24 |

**ISSUED:** BID SET ISSUANCE

**DATE:** FEB 6, 2024

**SCALE:** As indicated

**SHEET NAME:**
PARTIAL FIRST FLOOR FIRE ALARM - SOUTH WEST

**SHEET NUMBER:**
BM-E302

ISSUE FOR BID SET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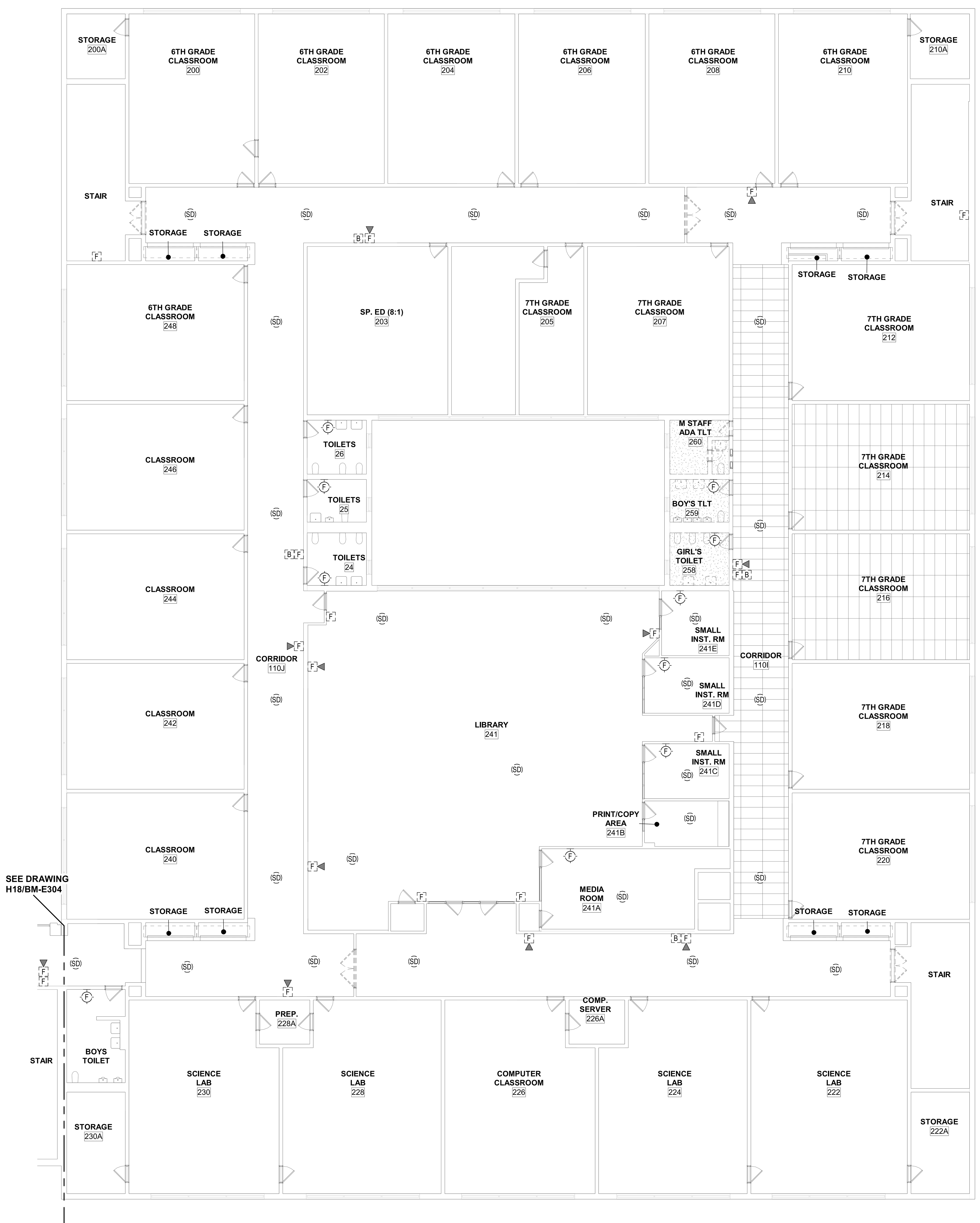
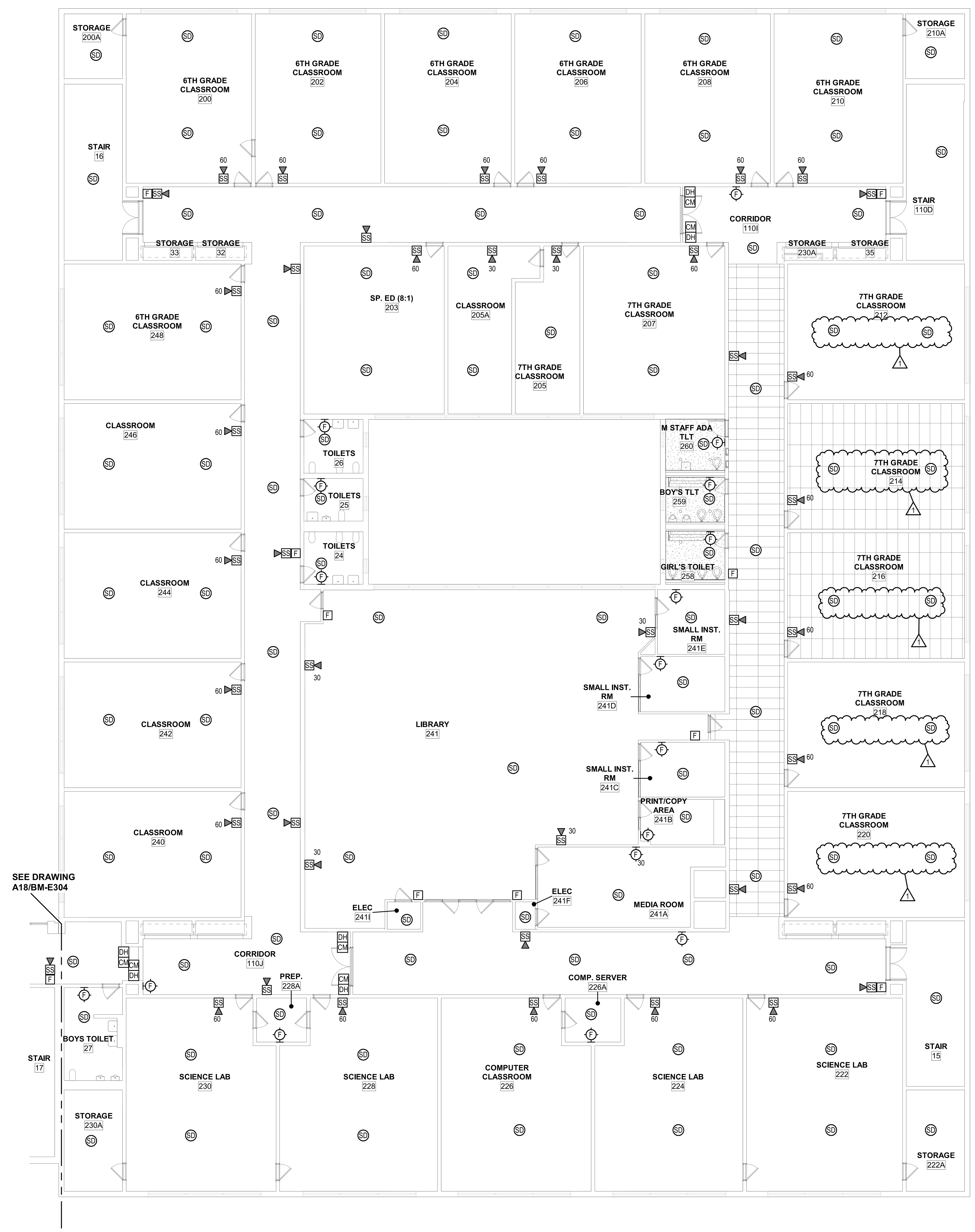
GENERAL NOTES:

1. SEE SHEET BM-E001 FOR GENERAL PROJECT NOTES.
2. SEE SHEET BM-E103 FOR FIRE ALARM SHUT DOWN INFORMATION OF ROOFTOP EQUIPMENT.
3. SCOPE OF FIRE ALARM WORK AT BAR MIDDLE SCHOOL IS A COMPLETE SYSTEM REPLACEMENT, INCLUDING FIRE ALARM CONTROL PANEL (FACP), FIRE ALARM ANNUNCIATOR PANELS (FAAP), INITIATING DEVICES, NOTIFICATION DEVICES, WIRING, RACEWAY, AND EMERGENCY CONTROL FUNCTION INTERFACE CONNECTIONS FOR HVAC FAN SHUTDOWN, ELEVATOR RECALL, DOOR RELEASE, SUPPRESSION SYSTEM MONITORING, AND CARBON MONOXIDE (CO) DETECTION AND ALARM.
4. THE ENTIRE EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND ACTIVE UNTIL THE ENTIRE NEW SYSTEM IN INSTALLED, TESTED, AND COMMISSIONED. ONCE NEW SYSTEM IS COMPLETE, REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY.




A18 OVERALL SECOND FLOOR FIRE ALARM PLAN REMOVAL - EAST
3/32" = 1'-0"




A9 OVERALL SECOND FLOOR FIRE ALARM PLAN - EAST
3/32" = 1'-0"

ARCHITECT

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NUFSD BOND PROJECTS PH4

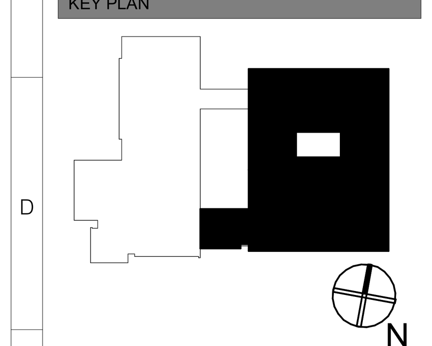
- ☐ SED#50-01-08-03-0-003-036 (NANUET HS)
- ■ SED#50-01-08-03-0-004-021 (BARR MS)
- ☐ SED#50-01-08-03-0-001-025 (MILLER ES)

Nanuet High School
103 Church St
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

KEY PLAN




REVISIONS

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SHEET NAME:
PARTIAL SECOND FLOOR FIRE ALARM - EAST

SHEET NUMBER:
BM-E303

ISSUE FOR BID SET

PROJECT NUMBER: 2211003.00

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