



ADDENDUM - 01

DATE:06 February 2025
FROM: Scott England AIA
VIA: WeTransfer/Electronic Mail

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SUBJECT:
ADDENDUM -01
BUILDING RENOVATION-LINDENWOLD
MIDDLE SCHOOL
RYEBREAD Project #5773A

This addendum is issued to clarify, correct or supplement the Documents as originally issued and will become a part of the Contract. Receipt thereof shall be acknowledged by Bidders in space provided in the Form of Bid. Failure to acknowledge this Addendum on the official Form of Bid may be cause for rejection of Bid.

1.01. **Amendment:** Delete Specification Sections 080671, DOOR HARDWARE SETS and 087100, DOOR HARDWARE as published in the Project Manual.

Replace with the attached amended specification sections of the same name and numbers.

1.02. **Amendment:** See amended and attached electrical drawings ED102, E101, E102, E103, E105, and E106, E301. Amendment date of 06 February 2025.

1.03. **Clarification:** All existing glazed ceramic wall tiles and other wall tiles in all existing restrooms must be completely removed whether specifically noted on the demolition drawings, or not.

1.04. **Addition:** As part of the Base-Bid, the Contractor to provide a Ground Penetrating Radar (GPR) service and report to locate (mark-out) all existing underground utilities between the Boiler Room and the new generator location. Provide a copy of the GPR Report to the A/E and Owner prior to proceeding with excavation.

1.05. **Clarification:** Bidders are reminded to review the ASBESTOS ABATEMENT WORK PLAN, in the Appendix of the Project Manual for asbestos abatement requirements of the Project. The Contractor will be required to develop a detailed work/phasing plan to permit phased construction and asbestos abatement in areas to permit non-abatement work to occur in other portions of the building, in accordance with all applicable federal and state laws governing asbestos abatement.

The Lindenwold School District’s environmental consultant will be responsible for conducting all final clearance air tests after abatement activities to determine if the work areas are cleared for re-occupancy.

1.06 **Clarification:** All existing restrooms have plaster ceilings above the acoustical panel ceilings. In order to safely create access to the areas above, the existing plaster ceilings in all restrooms must be removed. -Follow ASBESTOS ABATEMENT WORK PLAN, for work to remove existing ACM pipe wrap above the plaster ceilings.

The Lindenwold School District’s environmental consultant will be responsible for conducting all final clearance air tests after abatement activities to determine if the work areas are cleared for re-occupancy.

- 1.07 **Clarification:** All areas indicated to receive new flooring materials are to receive floor patching/leveling of the existing subfloor prior to installation of new flooring adhesive.
- 1.08 **Clarification:** The existing glazed wall tiles in corridors, stairwells, and other spaces not designated to be demolished, shall not require maintenance painting. All adjacent spaces around the existing glazed wall tiles are to be painted.
- 1.09 **Clarification:** In Room D137, the existing soffit material above the demolished along with cabinetry below. Contractor should also extend the existing acoustical panels ceiling and grid to the wall where the soffit was removed.
- 1.10 **Clarification:** The roofing system at the Lindenwold Middle School will be completely removed and replaced concurrently with the renovation project. The General Contractor and the Roofing Contractors are expected to coordinate all construction activities at the site and to cooperate with one another.

Any new roof penetrations must be completed under this project prior to the re-roofing work conducted by the roofing contractor who is under separate contract with the Owner.

- 1.11 **Deletion:** Delete all work flooring and maintenance repainting scheduled for the Media Center and adjacent spaces and two existing storage closets as shown on attached amended drawings numbered A106, A107 and A108.
- 1.12 **Amendment:** Delete specification section 096519, LUXURY VINYL COMPOSITION TILE FLOORING as bound in the Project Manual.

Replace with the attached specification section 096519, LUXURY VINYL COMPOSITION TILE FLOORING, consisting of 6 pages total.

- 1.13 **Bidder's Question:**

Question: *Instructions to Bidder states that ALL sub-contractors must be pre-qualified by the New Jersey Department of Treasury? Is this accurate? If so, please provide the designations required to list.*

Response: The Single Overall Prime must be DPMC pre-qualified and classified as a General Construction with NJ DPMC Classification of GC-008 or GC-009. The following subcontractors requires DPMC pre-qualified classifications:

- (1) The plumbing and gas fitting work – DPMC C030.
- (2) The refrigeration, heating and ventilating systems and equipment; - DPMC C032.
- (3) The electrical work, including any electrical power plant, tele-data, fire alarm, or security system; DPMC-047.
- (4) The structural steel and ornamental iron work; DPMC-C029.

Any subcontractor other than those listed above do not require DPMC pre-qualification and classification, however they are required to comply with all other regulatory requirements

1.14 **Bidder's Question:**

***Question:** The bid asks for us to list a structural steel sub. Is steel work a part of the project scope? If not, will we be required to list a sub for C029 Structural and Ornamental Steel)?*

Response: Please refer to specification section, 005290, LIST OF PRIME SUBCONTRACTORS, page 1, with emphasis highlighted in **red**:

“In accordance with N.J.S.A. 18A:18A-18, where the Bid requires and/or permits more than one of the specified branches of work to be under one contract, the Bidder shall list below the applicable name or names of their Prime Subcontractors. **If none are required, the Bidder shall input “NONE” on the list of those Subcontractors. Subject to compliance with the public bidding laws, if the Bidder elects to undertake one or more of the subcontracts listed with their own forces, they MUST indicate their intentions on this form by inputting “Self Performed” for the applicable subcontract listing(s).**”

1.15 **Clarification:** (Reference to Specification Section 123216, MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK):

1. All casework must be of balanced construction to avoid warpage or sag.
2. All core at sinks and sink bases are to be constructed of moisture-resistant (MR) particleboard.
3. Plywood construction materials are not acceptable.

1.16 **Amendment:** Amended plumbing drawings PD101, PD102, PD201, PD202, PD203, P100, P101, P102, P201, P202, P203, and P301 with revision dates of 30 Jan. 2025, consisting of 12 plumbing drawings total are attached.

Attachments:

1. Amended Specification Section 080671, DOOR HARDWARE SCHEDULE, consisting of 5 pages total.
 2. Amended Specification Section 087100, DOOR HARDWARE, consisting of 14 pages total.
 3. Amended Specification Section 096519, LUXURY VINYL COMPOSITION TILE FLOORING, consisting of 6 pages total.
 4. Amended architectural drawings A106, A107, and A108, consisting of three drawings total.
 5. Amended electrical drawings ED102, E101, E102, E103, E105, and E106, E301, consisting of seven electrical drawings total.
 6. Amended plumbing drawings PD101, PD102, PD201, PD202, PD203, P100, P101, P102, P201, P202, P203, and P301 with revision dates of 30 Jan. 2025, consisting of 12 plumbing drawings total.
- Addendum 01 consists of (28) pages and 22 drawings.

END OF ADDENDUM 01

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Door Hardware”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

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hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handing and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.
1. Section 08 71 00 – Door Hardware.
- C. Manufacturer’s Abbreviations:
1. MK - McKinney
 2. SU - Securitron
 3. RU - Corbin Russwin
 4. SA - SARGENT
 5. RO - Rockwood
 6. NO - Norton
 7. PE - Pemko
 8. OT – Other
 9. Approved equal.

Hardware Sets

Set: 1.0

Doors: [B-GL1.1](#), [B-GL2.1](#), [C-BL1.1](#), [C-BL2.1](#), [D227.1](#), [D-GL1.1](#), [D-MB1.1](#), [D-MB2.1](#), [D-WB1.1](#), [D-WB2.1](#)

3 Hinge (heavy weight)	T4A3786	US26D	MK 087100	
1 Electric Power Transfer	EL-CEPT	630	SU 087100	⚡
1 Passage Latch	56 8215 LL	US32D	SA 087100	
1 Automatic Opener	6000 Series	689	NO 087100	⚡
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO 087100	
1 Wall Stop	403 (or) 441CU (As Required)	US26D	RO 087100	

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1 Gasketing	S88BL (Head & Jambs)	PE 087100	
1 ElectroLynx Harness	QC-C**** x Length Required	MK 087100	⚡
1 ElectroLynx Harness	QC-C1500P	MK 087100	⚡
2 Door Switch	505	NO 087100	⚡
1 Power Supply	AQL4-R8E1	SU 087100	⚡
1 Wiring Diagram	Elevation and Point to Point as Specified	OT	

Notes: Door normally closed and unlocked.

Using either the push or pull side actuator switch will activate automatic operator, allowing ingress/egress.

Automatic operator functions as a normal mechanical door closer without the use of the actuator switches. Loss of power disables automatic operator's electrical opening capability, yet operator will function as a normal mechanical door closer.

Free ingress and egress at all times.

Set: 2.0

Doors: [D-227.2](#)

3 Hinge, Full Mortise	TA2714	US26D	MK 087100
1 Privacy Lock	V21 8265 LL	US32D	SA 087100
1 Surface Closer	CPS7500	689	NO 087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO 087100
1 Gasketing	S88BL (Head & Jambs)	PE	087100

END OF SECTION 080671

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- D. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.

4. Installation of permanent keys, cylinder cores and software.
 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 3. Review sequence of operation narratives for each unique access controlled opening.
 4. Review and finalize construction schedule and verify availability of materials.
 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:

- a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

5. Manufacturers:

- a. Ives (IV) - 5BB Series, 5-knuckle.
- b. McKinney (MK) - TA/T4A Series, 5-knuckle.
- c. dormakaba BEST (ST) - F/FBB Series, 5-knuckle.

2.2 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

- a. Corbin Russwin Hardware (RU).
- b. dormakaba BEST (BE).
- c. Sargent Manufacturing (SA).
- d. Approved equal.

- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

- C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

- D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

- E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.3 KEY CONTROL

2.4 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ML2000 Series.
 - b. dormakaba BEST (BE) - 45H Series.
 - c. Sargent Manufacturing (SA) - 8200 Series.
 - d. Approved equal.

2.5 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

- B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.6 SURFACE DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Heavy duty surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - DC6000 Series.
 - b. Norton Rixson (NO) - 7500 Series.
 - c. Sargent Manufacturing (SA) - 351 Series.
 - d. Approved equal.

2.7 ELECTROHYDRAULIC DOOR OPERATORS

A. Electrohydraulic Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that meet ANSI/BHMA A156.4 requirements and are UL listed for use on fire rated doors and UL10C certified that comply with requirements for the Americans with Disabilities Act (ADA). Operators shall be verified by GreenCircle to offer energy savings of 19% when compared to similar products to accommodate openings up 250 pounds and 48" wide.

1. Provide operators with features as follows:
 - a. Non-handed with push and pull side mounting.
 - b. Operates as mechanical surface closer during close cycles, when door is opened manually or if power is off.
 - c. Activation by push button, hands-free or radio frequency devices.

- d. On board electronics to collect usage and cycle count data to facilitate preventative maintenance/diagnostics.
 - e. Two-year limited warranty.
 - f. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
 - 1) Simple setup with no app required.
 - 2) View status and make adjustments without removing the cover.
 - 3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
 - g. Mounting backplate to simplify and speed up installation.
2. Operators shall have the following functionality:
- a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
 - b. Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.
 - c. Infinite Hold Open: Door will hold open at set position until power is turned off.
 - d. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.
 - e. Open Delay: Delays operator opening for locking hardware.
 - f. Overload Safety Shut-Off: After two minutes of receiving a door activation signal, inverter times out and door closes to prevent motor/inverter damage.
 - g. Presence Detector Input: Input for external sensor to detect presence at door open or close position only.
 - h. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
 - i. Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.
 - j. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.
3. Manufacturers:
- a. Norton Rixson (NO) - 6000 Series.
 - b. Approved equal.

2.8 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and

not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Rockwood (RO).
 - b. Approved equal.

2.9 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 1. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Trimco (TC).
 - d. Approved equal.

2.10 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. National Guard Products (NG).
 - 2. Pemko (PE).
 - 3. Zero (ZE).
 - 4. Approved equal.

2.11 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.12 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.

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3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

SECTION 096519 – LUXURY VINYL COMPOSITION TILE FLOORING

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. Section Includes:
 - 1. Commercial luxury vinyl composition tile.

1.3 RELATED SECTIONS

- A. Section 090561.13, “Moisture Vapor Emission Control”.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: Full-size units of each color, texture, and pattern of floor tile required.
- C. Samples for Initial Selection: For each type of floor tile indicated.
- D. Samples for Verification: Full-size units of each color and pattern of floor tile required.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of floor tile to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Floor Tile: Furnish one box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

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1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
 - 1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store floor tiles on flat surfaces.

1.10 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive floor tile during the following periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.
- E. Install floor tile after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For resilient floor tile, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
 - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

2.2 LUXURY VINYL TILES

- A. Commercial Grade Luxury Vinyl Floor Tiles: Manufacturer's luxury vinyl tiles consisting of commercial UV-cured coating, performance wear layer, with printed visual layer, base layers, with smooth wearing surface and manufacturer's standard factory-applied, protective coating.
- B. Basis-of-Design Manufacturer and Product: Natural Creations Collections, Armstrong Commercial Flooring Systems or a specification-compliant and approved equal product from one of the following:
 - 1. Burke Flooring.
 - 2. Forbo Flooring Systems.
 - 3. Architect-approved equal.
- C. Thickness: 0.125-inch product, with a wear layer of 0.020-inch.
- D. Size: 18-inches by 18-inches tiles.
- E. Colors: As selected from manufacturer's full range of colors available.
- F. Gloss: Low gloss.
- G. Floating Underlayment: Manufacturer's best quality floating underlayment that serves as a moisture barrier, resists mold and mildew, and complies with Americans with Disabilities Act and other regulations related to use by the physically-challenged.
- H. Patterns: Architect may select up to three different colors installed in a pattern to be determined by the Architect. Pattern may include squares, diagonals or checkerboard patterns.
- I. Warranty: Manufacturer's standard 20-year commercial warranty.
- J. Adhesives: As recommended by the manufacturer for high moisture, and high relative humidity concrete slab conditions. Adhesive must come from the same manufacturer as the floor tiles.

2.3 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.
- C. Floor Polish: Provide protective, liquid floor-polish products recommended by floor tile manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
 - 2. Pre-Installation Testing: Conduct pre-installation moisture testing at intervals recommended by the manufacturer. Perform bond tests and pH test, as recommended by the flooring manufacturer. Adhesive selection shall be based on the results of testing.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates: Prepare according to ASTM F710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
 - 4. Moisture Testing: Unless the flooring manufacturer has more stringent requirements, perform tests so that each test area does not exceed 200 sq. ft. (18.6 sq. m), and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate acceptable to the flooring manufacturer and compliance with the adhesive requirements.
 - b. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a rate acceptable to the flooring manufacturer and and compliance with the adhesive requirements.
 - c. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

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- d. Selection of flooring adhesive must meet the requirements of the flooring manufacturer.
- C. Do not install floor tiles until materials are the same temperature as space where they are to be installed.
 - 1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.
- D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

3.3 FLOOR TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor tile.
- B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
 - 1. Lay tiles square with room axis in pattern as determined by the Architect.
- C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
 - 1. Lay tiles with grain direction alternating in adjacent tiles (basket-weave pattern).
- D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
- G. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
- H. Accessories: Install according to manufacturer's written instructions.

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3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.
- B. Perform the following operations immediately after completing floor tile installation:
 - 1. Remove adhesive and other blemishes from surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
 - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Sealers and Finish Coats: No finish coats per Owner's request.
- E. Cover floor tile until Substantial Completion.

END OF SECTION 096519



DEMOLITION KEY

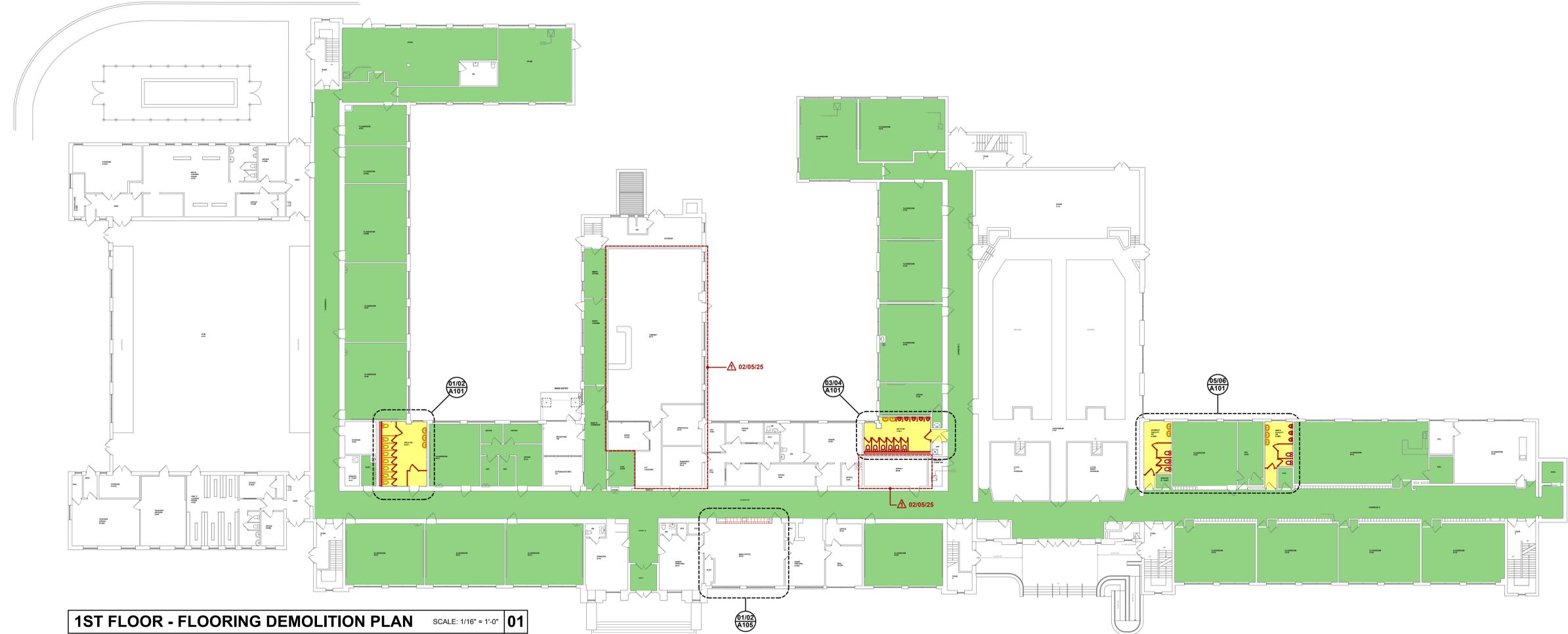
DEMOLISH ALL EXISTING APC & GRID, LIGHTS, ALL PLUMBING FIXTURES, FINISHES & OTHER ITEMS DOWN TO EXISTING CONCRETE SLAB. CAREFULLY REMOVE EXISTING CONCRETE SLAB TO ACCOMMODATE NEW PLUMBING. DEMOLISH ALL EXISTING PLASTER CEILINGS AND APC CEILINGS IN THEIR ENTIRETY. FOLLOW ENLARGED PLANS FOR ADDITIONAL INFO.

DEMOLISH ALL EXISTING FLOORING TO CONCRETE SLAB, MASTIC & WALL BASE. PREP EXISTING FLOOR TO RECEIVE NEW FLOOR FINISHES. FOLLOW ASBESTOS ABATEMENT PLAN FOR ABATEMENT REQUIREMENTS.

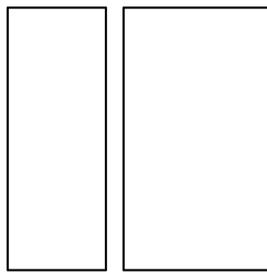
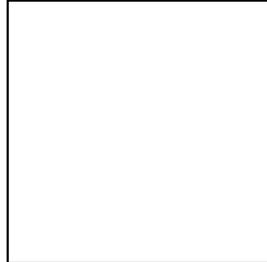
NOTE

- FOLLOW SHEET A107 FOR NEW FLOORING PLANS.
- FOLLOW ENLARGED PLANS AND MEP DRAWINGS FOR ADDITIONAL INFO. (TYP.)

2ND FLOOR - FLOORING DEMOLITION PLAN SCALE: 1/16" = 1'-0" **02**



1ST FLOOR - FLOORING DEMOLITION PLAN SCALE: 1/16" = 1'-0" **01**



REGAN YOUNG ENGLAND BUTERA
 REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
 458 HIGH STREET - 7th FLOOR - NEW JERSEY 0800 USA
 TEL: 908-662-0200 FAX: 908-662-0201 WWW: RYEDesign.com

REGAN YOUNG, AIA
 21.A00912100

NJDOE PROJECT NUMBER

PROJECT TITLE:
**BUILDING RENOVATIONS
 LINDENWOLD MIDDLE
 SCHOOL**

ADDRESS:
**LINDENWOLD MIDDLE SCHOOL
 BLOCK 145, LOT 2
 40 WHITE HORSE AVENUE
 LINDENWOLD, NJ 08021**

PROJECT NO.: 5773A

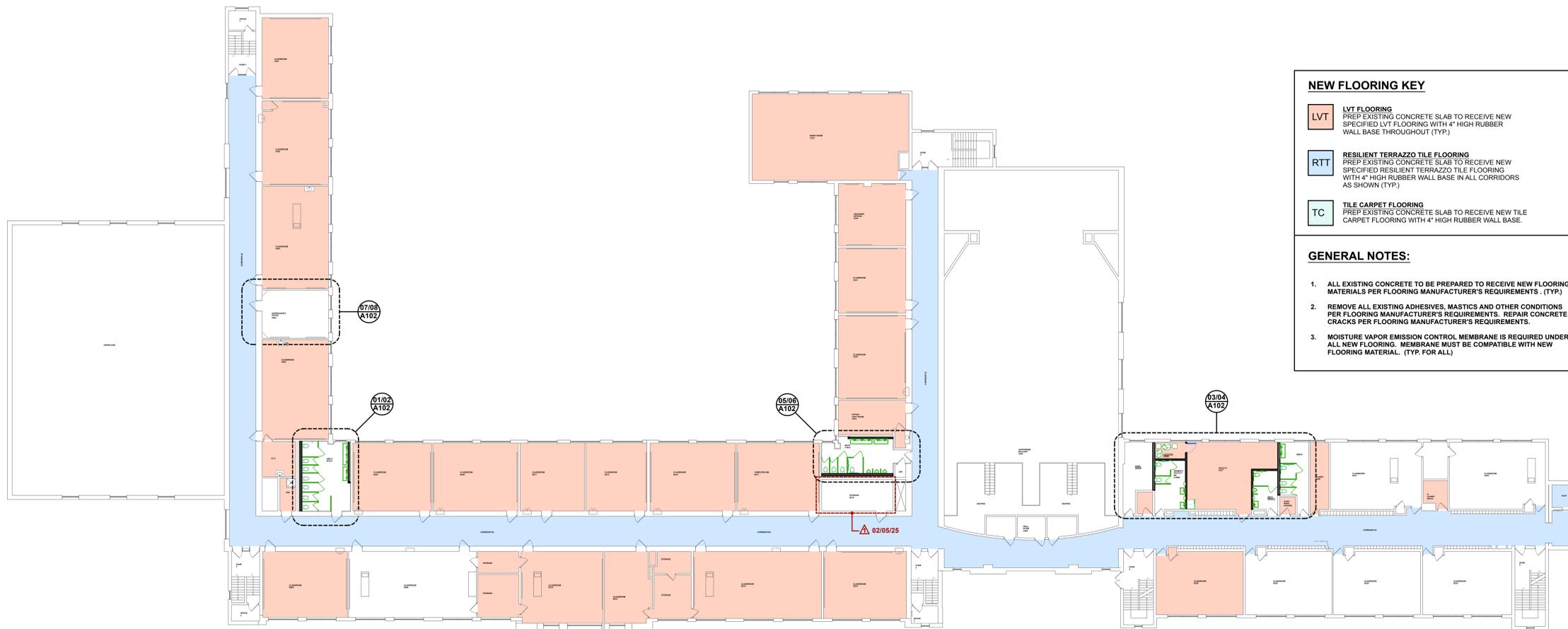
REVISION DATE:	
▲	ADD 02/05/25

DRAWING DATE:	17 JAN 2025
PRINT DATE:	29 January 2025
DRAWN BY:	RMR
SHEET TITLE:	FLOORING DEMOLITION PLANS

A106



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30" x 42" - DO NOT SCALE DRAWINGS



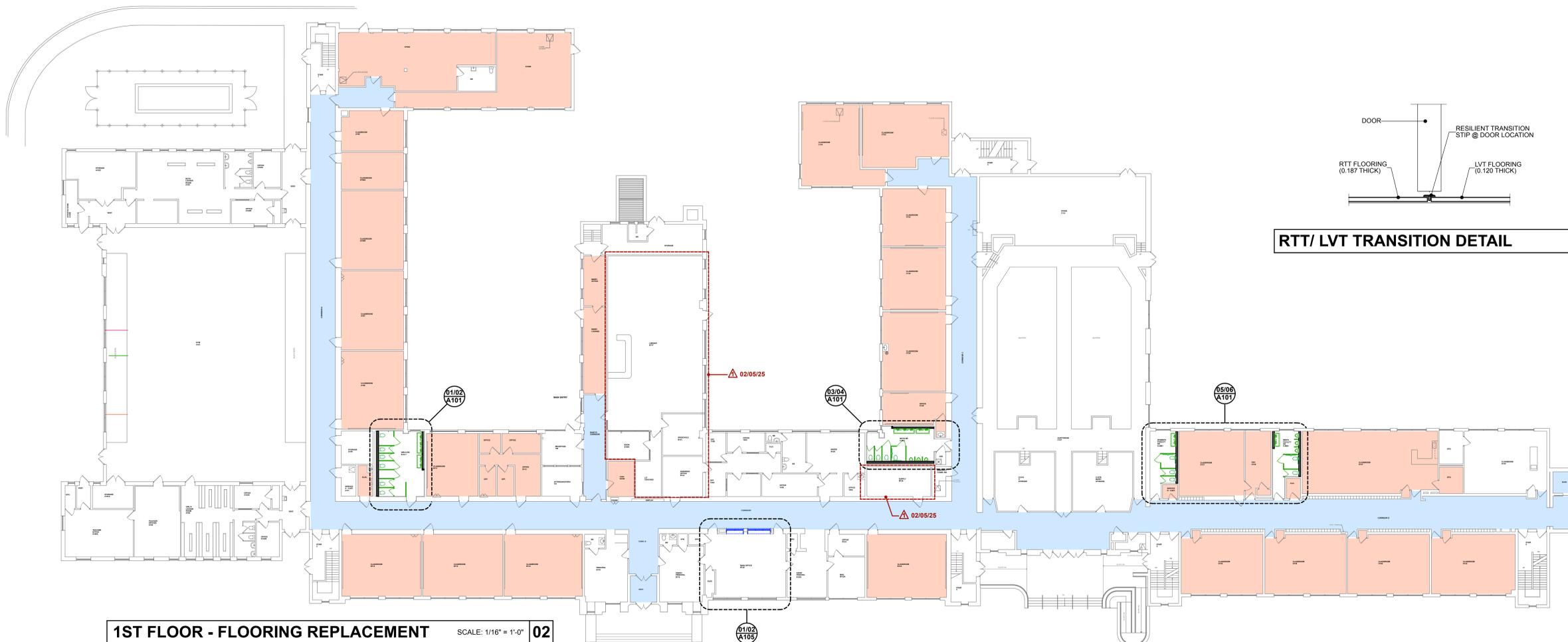
NEW FLOORING KEY

- LVT** LVT FLOORING
PREP EXISTING CONCRETE SLAB TO RECEIVE NEW SPECIFIED LVT FLOORING WITH 4" HIGH RUBBER WALL BASE THROUGHOUT (TYP.)
- RTT** RESILIENT TERRAZZO TILE FLOORING
PREP EXISTING CONCRETE SLAB TO RECEIVE NEW SPECIFIED RESILIENT TERRAZZO TILE FLOORING WITH 4" HIGH RUBBER WALL BASE IN ALL CORRIDORS AS SHOWN (TYP.)
- TC** TILE CARPET FLOORING
PREP EXISTING CONCRETE SLAB TO RECEIVE NEW TILE CARPET FLOORING WITH 4" HIGH RUBBER WALL BASE.

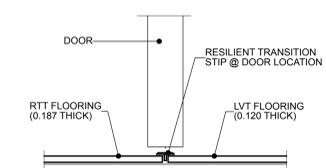
GENERAL NOTES:

- ALL EXISTING CONCRETE TO BE PREPARED TO RECEIVE NEW FLOORING MATERIALS PER FLOORING MANUFACTURER'S REQUIREMENTS . (TYP.)
- REMOVE ALL EXISTING ADHESIVES, MASTICS AND OTHER CONDITIONS PER FLOORING MANUFACTURER'S REQUIREMENTS. REPAIR CONCRETE CRACKS PER FLOORING MANUFACTURER'S REQUIREMENTS.
- MOISTURE VAPOR EMISSION CONTROL MEMBRANE IS REQUIRED UNDER ALL NEW FLOORING. MEMBRANE MUST BE COMPATIBLE WITH NEW FLOORING MATERIAL. (TYP. FOR ALL)

2ND FLOOR - FLOORING REPLACEMENT SCALE: 1/16" = 1'-0" **01**



1ST FLOOR - FLOORING REPLACEMENT SCALE: 1/16" = 1'-0" **02**



RTT/ LVT TRANSITION DETAIL NTS **03**



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30" x 42" - DO NOT SCALE DRAWINGS

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS - ENGINEERING - ARCHITECTURE - DESIGN
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21.A00912100

NJDOE PROJECT NUMBER

PROJECT TITLE:
**BUILDING RENOVATIONS
LINDENWOLD MIDDLE
SCHOOL**

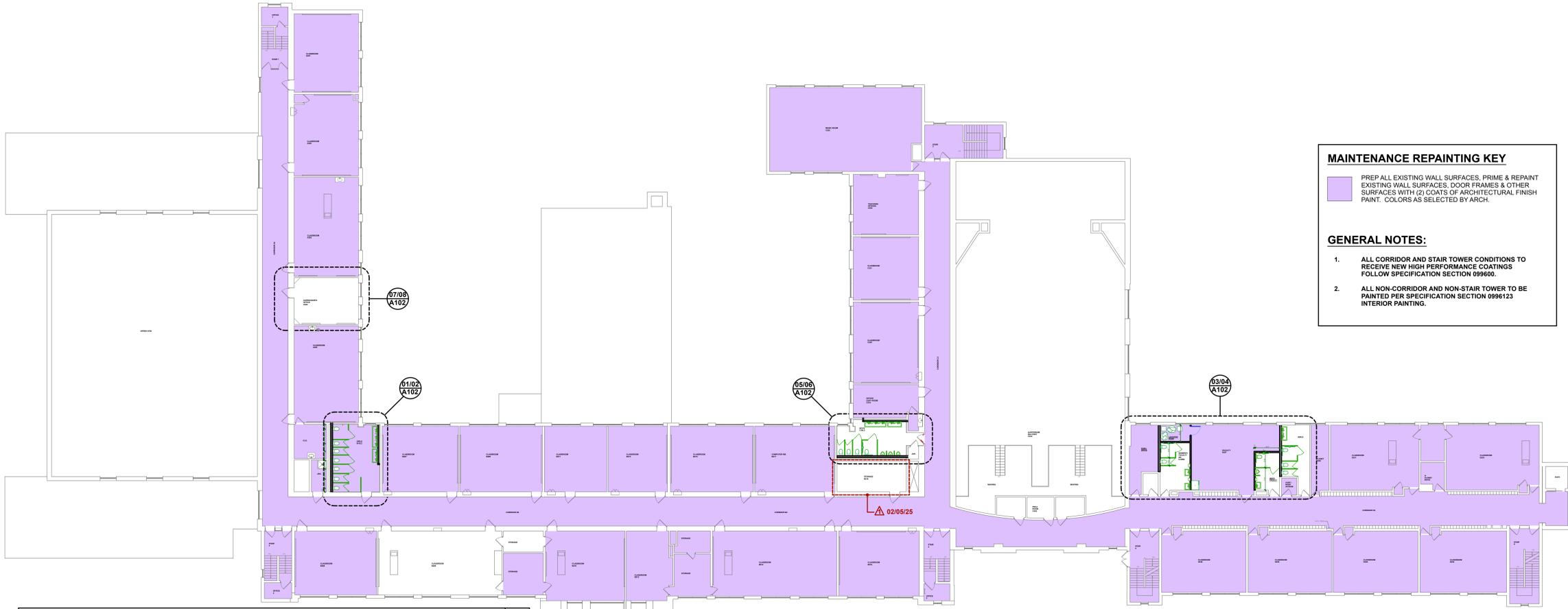
ADDRESS:
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BLOCK 145, LOT 2
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LINDENWOLD, NJ 08021**

PROJECT NO.: **5773A**

REVISION DATE:	
▲	ADD 02/05/25

DRAWING DATE:	17 JAN 2025
PRINT DATE:	29 January 2025
DRAWN BY:	RMR
SHEET TITLE:	NEW FLOORING PLAN

A107



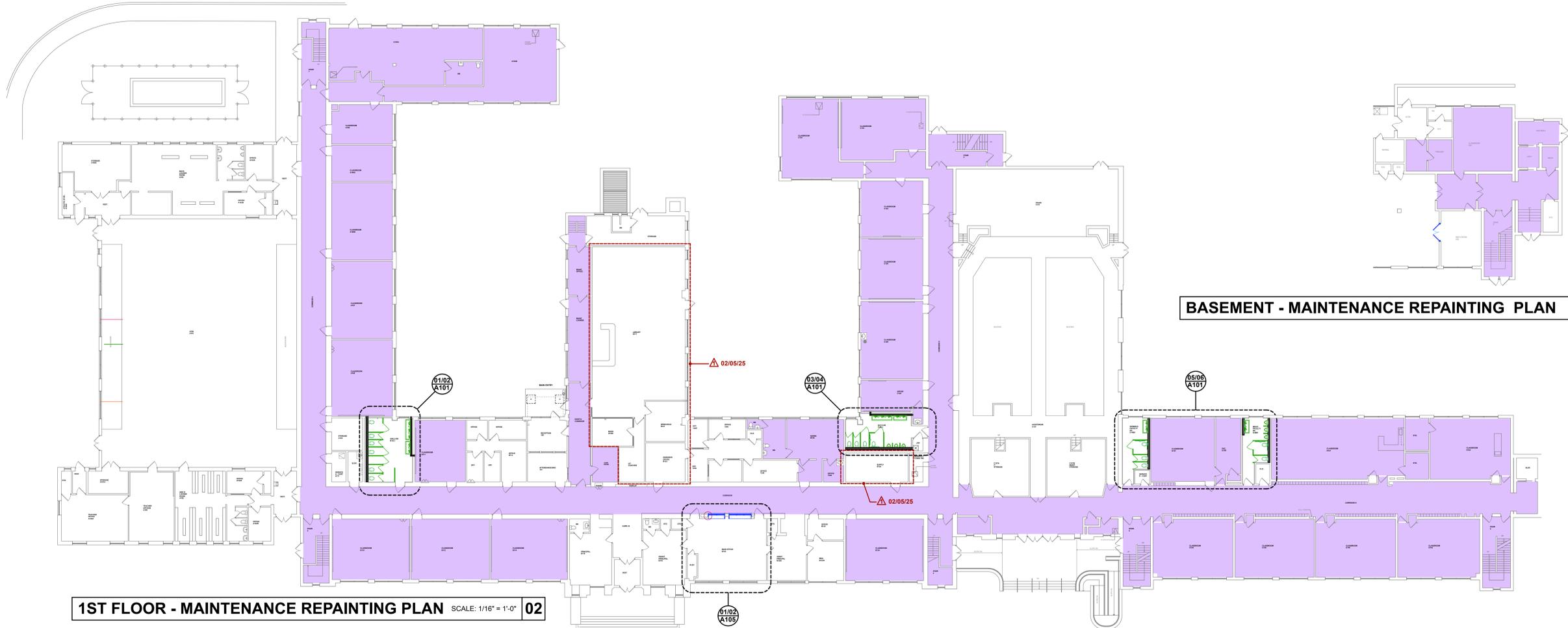
2ND FLOOR - MAINTENANCE REPAINTING PLAN SCALE: 1/16" = 1'-0" **01**

MAINTENANCE REPAINTING KEY

PREP ALL EXISTING WALL SURFACES, PRIME & REPAINT EXISTING WALL SURFACES, DOOR FRAMES & OTHER SURFACES WITH (2) COATS OF ARCHITECTURAL FINISH PAINT. COLORS AS SELECTED BY ARCH.

GENERAL NOTES:

- ALL CORRIDOR AND STAIR TOWER CONDITIONS TO RECEIVE NEW HIGH PERFORMANCE COATINGS FOLLOW SPECIFICATION SECTION 099600.
- ALL NON-CORRIDOR AND NON-STAIR TOWER TO BE PAINTED PER SPECIFICATION SECTION 0996123 INTERIOR PAINTING.

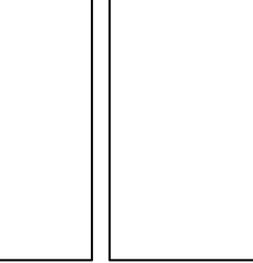


1ST FLOOR - MAINTENANCE REPAINTING PLAN SCALE: 1/16" = 1'-0" **02**

BASEMENT - MAINTENANCE REPAINTING PLAN SCALE: 1/16" = 1'-0" **03**



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 36" x 42" - DO NOT SCALE DRAWINGS



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 +1 609 262 2222 FAX +1 609 262 2100 - RY@REGY.COM

REGAN YOUNG, AIA
 21/A00912100

NJDOE PROJECT NUMBER

PROJECT TITLE:
BUILDING RENOVATIONS
LINDENWOLD MIDDLE SCHOOL

ADDRESS:
LINDENWOLD MIDDLE SCHOOL
BLOCK 145, LOT 2
40 WHITE HORSE AVENUE
LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

REVISION DATE:	
▲	ADD 02/05/25

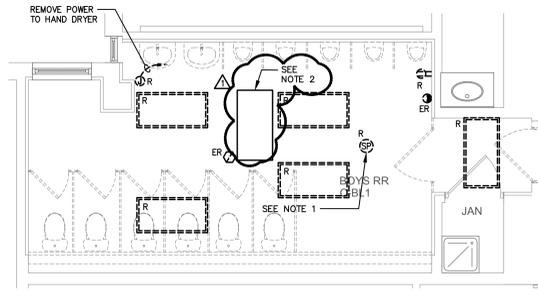
DRAWING DATE: **17 JAN 2025**

PRINT DATE: **29 January 2025**

DRAWN BY: **RMR**

SHEET TITLE: **MAINTENANCE REPAINTING PLAN**

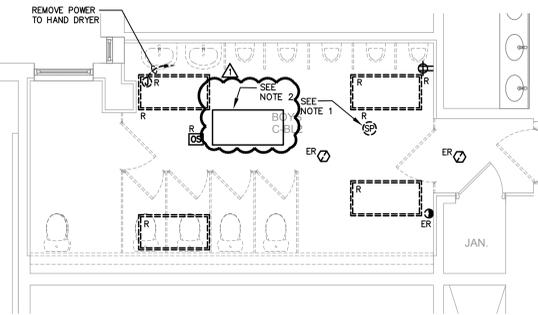
A108



**1 FIRST FLOOR BOYS RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

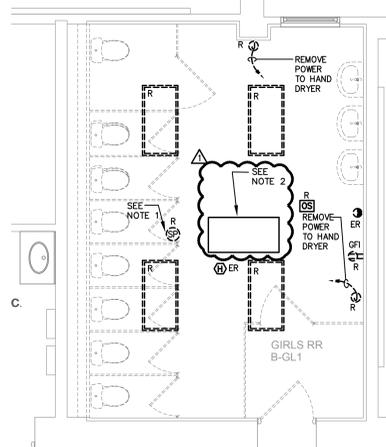
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



**2 SECOND FLOOR BOYS RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

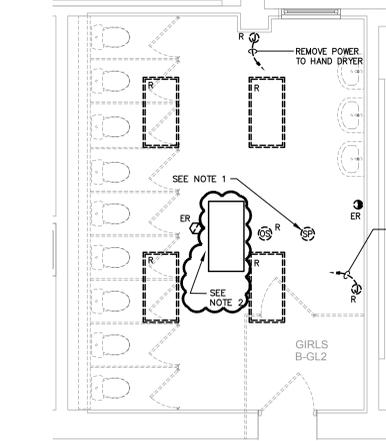
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



**3 FIRST FLOOR GIRLS RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

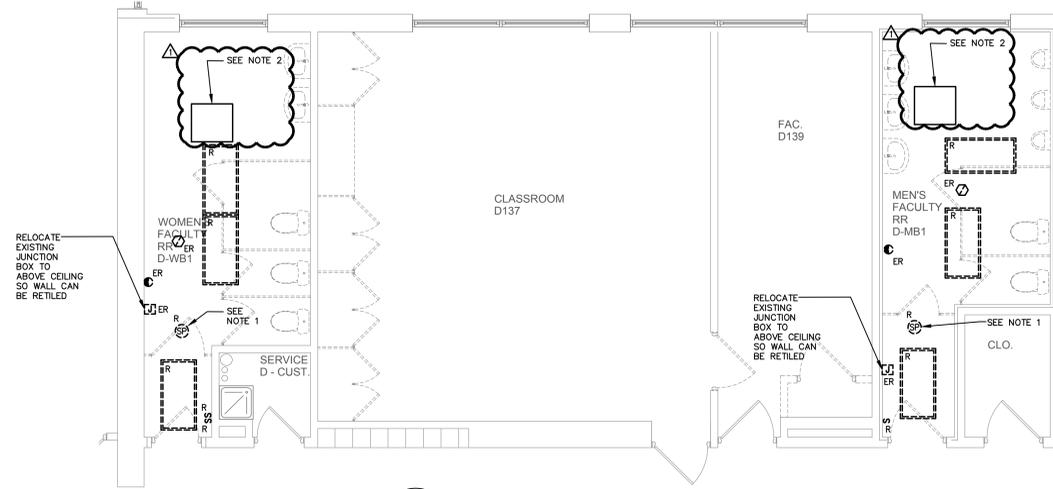
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



**4 SECOND FLOOR GIRLS RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

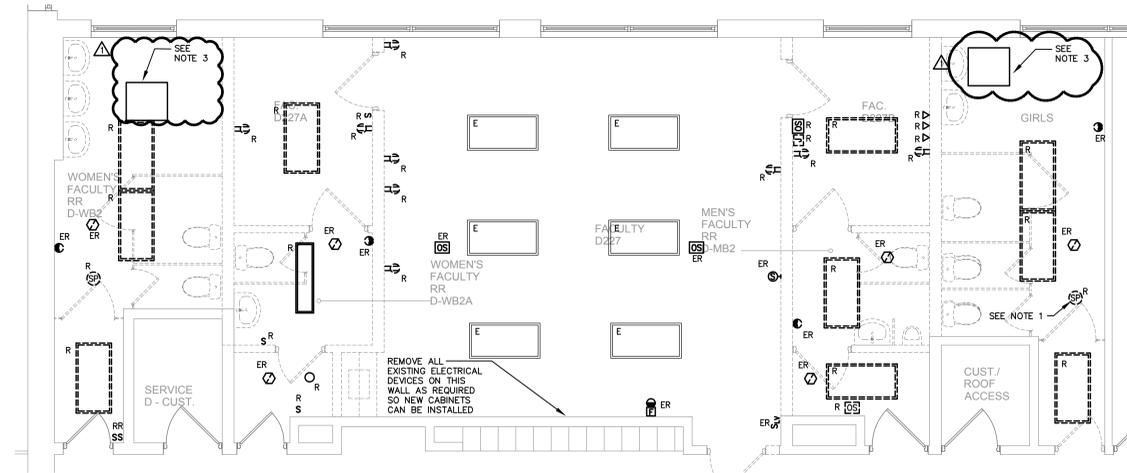
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



**5 FIRST FLOOR FACULTY RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

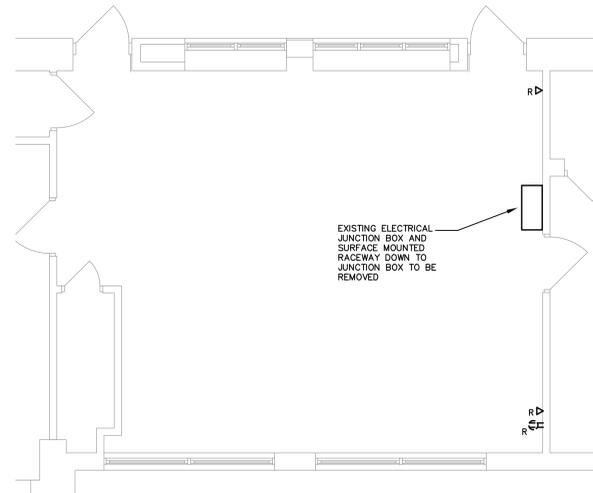
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



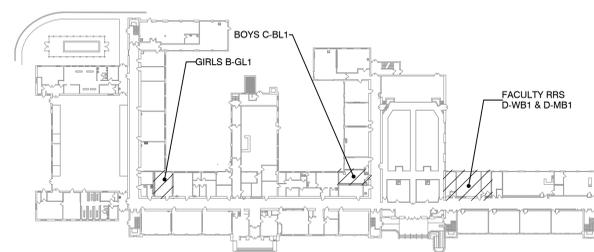
**6 SECOND FLOOR FACULTY RESTROOM
ED102 - ELECTRICAL DEMOLITION**
SCALE 1/4" = 1'-0"

NOTES:

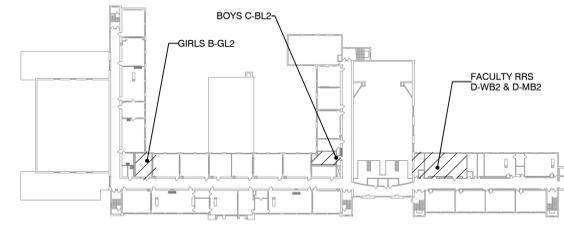
- EXISTING SPEAKER TO BE REMOVED. PROVIDE TEMPORARY SUPPORT OF EXISTING WIRES ABOVE CEILING. A NEW SPEAKER SAME AS EXISTING BUT WHITE IN COLOR, WILL BE PLACED BACK IN THE NEW CEILING.
- REMOVE ALL EXISTING POWER AND DATA RECEPTACLES LOCATED ON DEMO WALLS, REGARDLESS OF WHETHER SHOWN OR NOT. EXISTING FIRE ALARM, CLOCK, SPEAKERS AND WIFI ACCESS POINTS ON DEMO WALLS ARE TO BE TEMPORARILY REMOVED AND RELOCATED AS REQUIRED.
- DISCONNECT POWER CIRCUIT TO EXISTING CABINET UNIT HEATER AS REQUIRED FOR RELOCATION INTO NEW CEILING GRID.



**7 MAIN OFFICE - ELECTRICAL
ED102 - DEMOLITION**
SCALE 1/4" = 1'-0"



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REGAN YOUNG, AIA
21A00912100

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Frank Tindall, P.E.
Professional Engineer
NJ 38656

PROJECT TITLE:
**BUILDING RENOVATIONS
LINDENWOLD MIDDLE
SCHOOL**

ADDRESS:
LINDENWOLD MIDDLE SCHOOL
BLOCK 145, LDT 2
40 WHITE HORSE AVENUE
LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

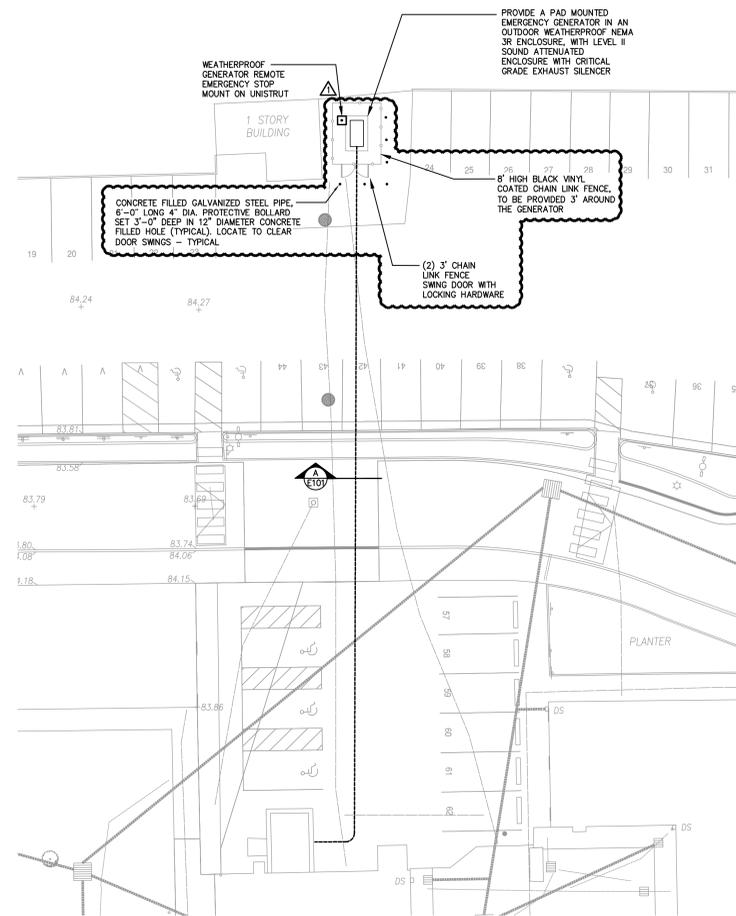
REVISION DATE: **06 FEB 2025**

DRAWING DATE: **17 January 2025**

PRINT DATE: **AS**

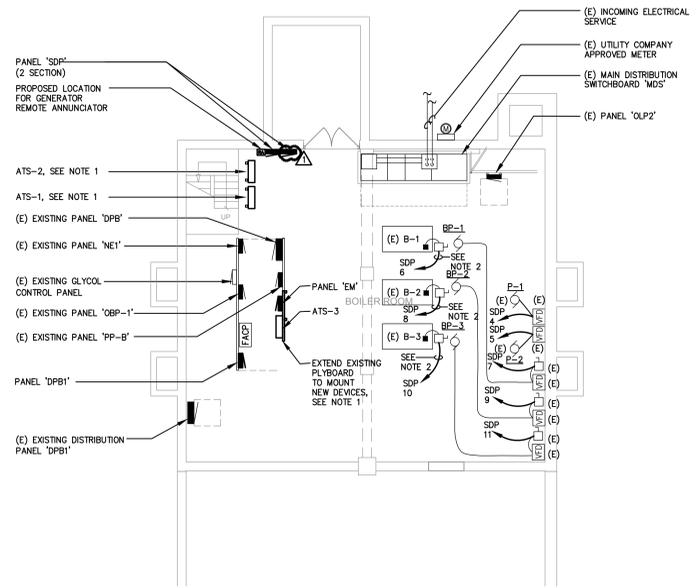
SHEET TITLE: **RESTROOMS -
ELECTRICAL
DEMOLITION**

ED102



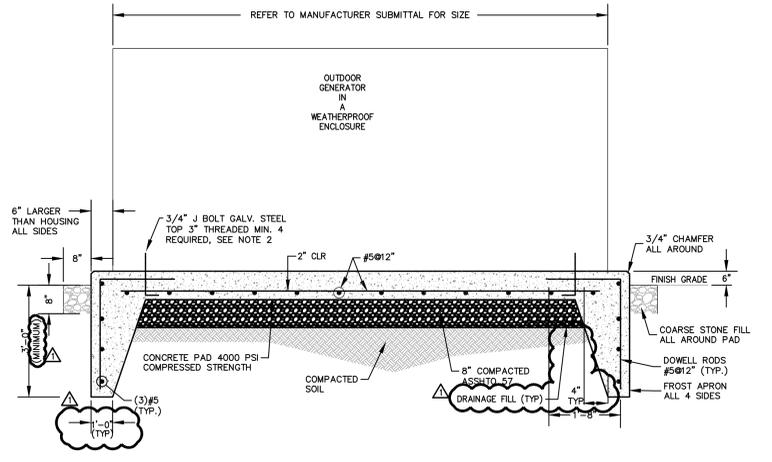
1 SITE PLAN - ELECTRICAL
E101 SCALE 1/16" = 1'-0"

- NOTES:
- BACKFILL TRENCH IS 6-INCH LIFTS AND COMPACT
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED OUT AS REQUIRED BY NJIA, CALL BEFORE YOU DIG.
 - ALL EXTERIOR TRENCHING SHALL BE FENCED OFF.



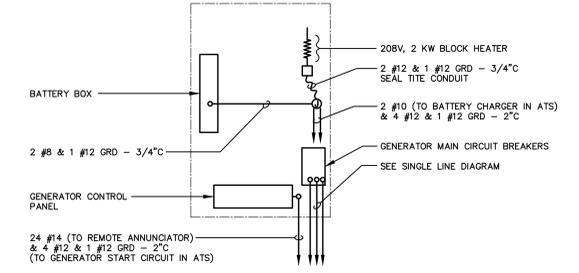
2 BASEMENT BOILER ROOM PLAN - ELECTRICAL
E101 SCALE 1/8" = 1'-0"

- NOTES:
- MOUNT ON GALVANIZED STEEL UNI-STRUT WITH STAINLESS STEEL HARDWARE SUPPORTED FROM BUILDING STRUCTURE.
 - CIRCUIT VIA EXISTING BOILER SHUT DOWN CONTACTOR.

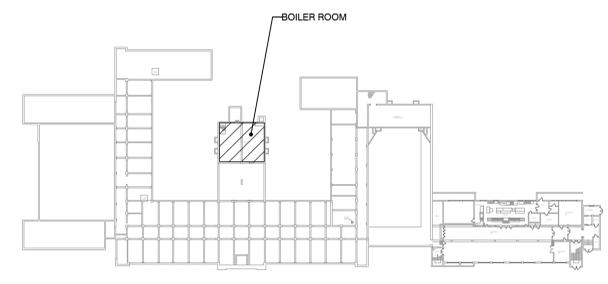


3 GENERATOR AND EQUIPMENT PAD DETAIL
E101 NOT TO SCALE

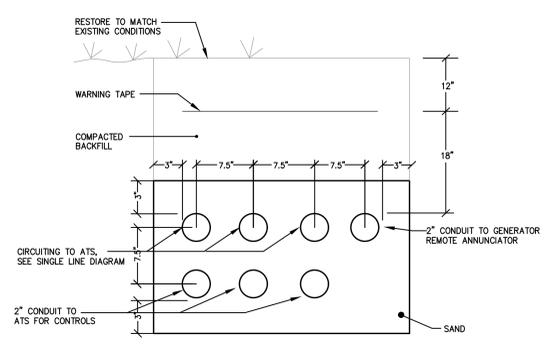
- NOTES:
- PAD SIZE SHALL BE BASED ON DIMENSIONS OF FINAL APPROVED GENERATOR/HOUSING.
 - COORDINATE THE EXACT LOCATIONS AND TYPE OF ANCHORING WITH MANUFACTURER'S WRITTEN INSTRUCTION, AND PROVIDE AS SPECIFIED.



4 EMERGENCY GENERATOR CONNECTION DETAIL
E101 NOT TO SCALE



KEY PLAN BASEMENT



A DUCTBANK DETAIL
E101 NOT TO SCALE

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Frank Tindall, P.E.
Professional Engineer
NJ 38656

PROJECT TITLE:
**BUILDING RENOVATIONS
LINDENWOLD MIDDLE
SCHOOL**

ADDRESS:
LINDENWOLD MIDDLE SCHOOL
BLOCK 145, LDT 2
40 WHITE HORSE AVENUE
LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

REVISION DATE: **06 FEB 2025**

DRAWING DATE:
PRINT DATE: **17 January 2025**

DRAWN BY: **LA**

SHEET TITLE: **PLANS & DETAILS - ELECTRICAL**

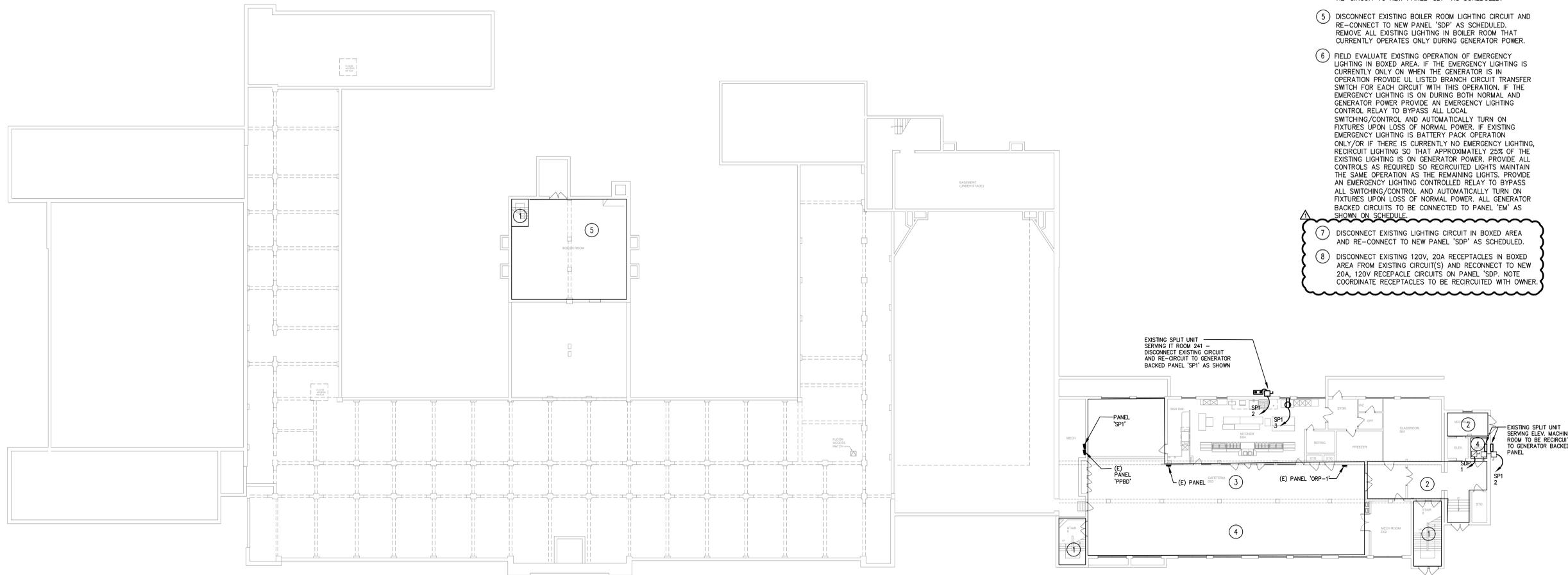
E101

January 16, 2025 3:33:29 p.m.
Drawing: 351 E101

DRAWING REFERENCE SCALE, VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.

1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0"

THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30" x 42" - DO NOT SCALE DRAWINGS
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KEYED NOTES:

- ① DISCONNECT EXISTING LIGHTING IN STAIR FROM EXISTING CIRCUIT AND CONNECT TO CIRCUIT IN NEW PANEL 'EM' AS SCHEDULED. PROVIDE AN EMERGENCY LIGHTING CONTROLLED RELAY TO BYPASS ALL SWITCHING/CONTROL AND AUTOMATICALLY TURN ON FIXTURES UPON LOSS OF NORMAL POWER. REMOVE ALL EXISTING LIGHTING IN STAIRS THAT CURRENTLY ONLY OPERATES ON GENERATOR POWER.
- ② DISCONNECT EXISTING CORRIDOR LIGHTING CIRCUIT AND RE-CONNECT TO NEW PANEL 'EM' AS SCHEDULED. PROVIDE AN EMERGENCY LIGHTING CONTROL RELAY TO BYPASS ALL SWITCHING/CONTROL AND AUTOMATICALLY TURN ON FIXTURES UPON LOSS OF NORMAL POWER.
- ③ DISCONNECT EXISTING CAFETERIA LIGHTING CIRCUIT AND RE-CONNECT TO NEW PANEL 'EM' AS SCHEDULED. PROVIDE AN EMERGENCY LIGHTING CONTROL RELAY TO BYPASS ALL SWITCHING/CONTROL AND AUTOMATICALLY TURN ON FIXTURES UPON LOSS OF NORMAL POWER.
- ④ DISCONNECT CIRCUITING TO EXISTING ELEVATOR AND RE-CIRCUIT TO NEW PANEL 'SDP' AS SCHEDULED.
- ⑤ DISCONNECT EXISTING BOILER ROOM LIGHTING CIRCUIT AND RE-CONNECT TO NEW PANEL 'SDP' AS SCHEDULED. REMOVE ALL EXISTING LIGHTING IN BOILER ROOM THAT CURRENTLY OPERATES ONLY DURING GENERATOR POWER.
- ⑥ FIELD EVALUATE EXISTING OPERATION OF EMERGENCY LIGHTING IN BOXED AREA. IF THE EMERGENCY LIGHTING IS CURRENTLY ONLY ON WHEN THE GENERATOR IS IN OPERATION PROVIDE UL LISTED BRANCH CIRCUIT TRANSFER SWITCH FOR EACH CIRCUIT WITH THIS OPERATION. IF THE EMERGENCY LIGHTING IS ON DURING BOTH NORMAL AND GENERATOR POWER PROVIDE AN EMERGENCY LIGHTING CONTROL RELAY TO BYPASS ALL LOCAL SWITCHING/CONTROL AND AUTOMATICALLY TURN ON FIXTURES UPON LOSS OF NORMAL POWER. IF EXISTING EMERGENCY LIGHTING IS BATTERY PACK OPERATION ONLY/OR IF THERE IS CURRENTLY NO EMERGENCY LIGHTING, RE-CIRCUIT LIGHTING SO THAT APPROXIMATELY 25% OF THE EXISTING LIGHTING IS ON GENERATOR POWER. PROVIDE ALL CONTROLS AS REQUIRED SO RE-CIRCUITED LIGHTS MAINTAIN THE SAME OPERATION AS THE REMAINING LIGHTS. PROVIDE AN EMERGENCY LIGHTING CONTROLLED RELAY TO BYPASS ALL SWITCHING/CONTROL AND AUTOMATICALLY TURN ON FIXTURES UPON LOSS OF NORMAL POWER. ALL GENERATOR BACKED CIRCUITS TO BE CONNECTED TO PANEL 'EM' AS SHOWN ON SCHEDULE.
- ⑦ DISCONNECT EXISTING LIGHTING CIRCUIT IN BOXED AREA AND RE-CONNECT TO NEW PANEL 'SDP' AS SCHEDULED.
- ⑧ DISCONNECT EXISTING 120V, 20A RECEPTACLES IN BOXED AREA FROM EXISTING CIRCUIT(S) AND RECONNECT TO NEW 20A, 120V RECEPTACLE CIRCUITS ON PANEL 'SDP'. NOTE COORDINATE RECEPTACLES TO BE RE-CIRCUITED WITH OWNER.

EXISTING SPLIT UNIT SERVING IT ROOM 241 - DISCONNECT EXISTING CIRCUIT AND RE-CIRCUIT TO GENERATOR BACKED PANEL 'SPT' AS SHOWN

EXISTING SPLIT UNIT SERVING ELEV. MACHINE ROOM TO BE RE-CIRCUITED TO GENERATOR BACKED PANEL

1 BASEMENT PLAN - ELECTRICAL
E102 SCALE 1/16" = 1'-0"

NOTES
 1. FOR GENERAL NOTES REFER TO DRAWING E201.

DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.



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Drawing: 5/19/25 E102.dwg
 Date: 01/17/25 2:29 p.m.

PROJECT TITLE:
**BUILDING RENOVATIONS
 LINDENWOLD MIDDLE
 SCHOOL**

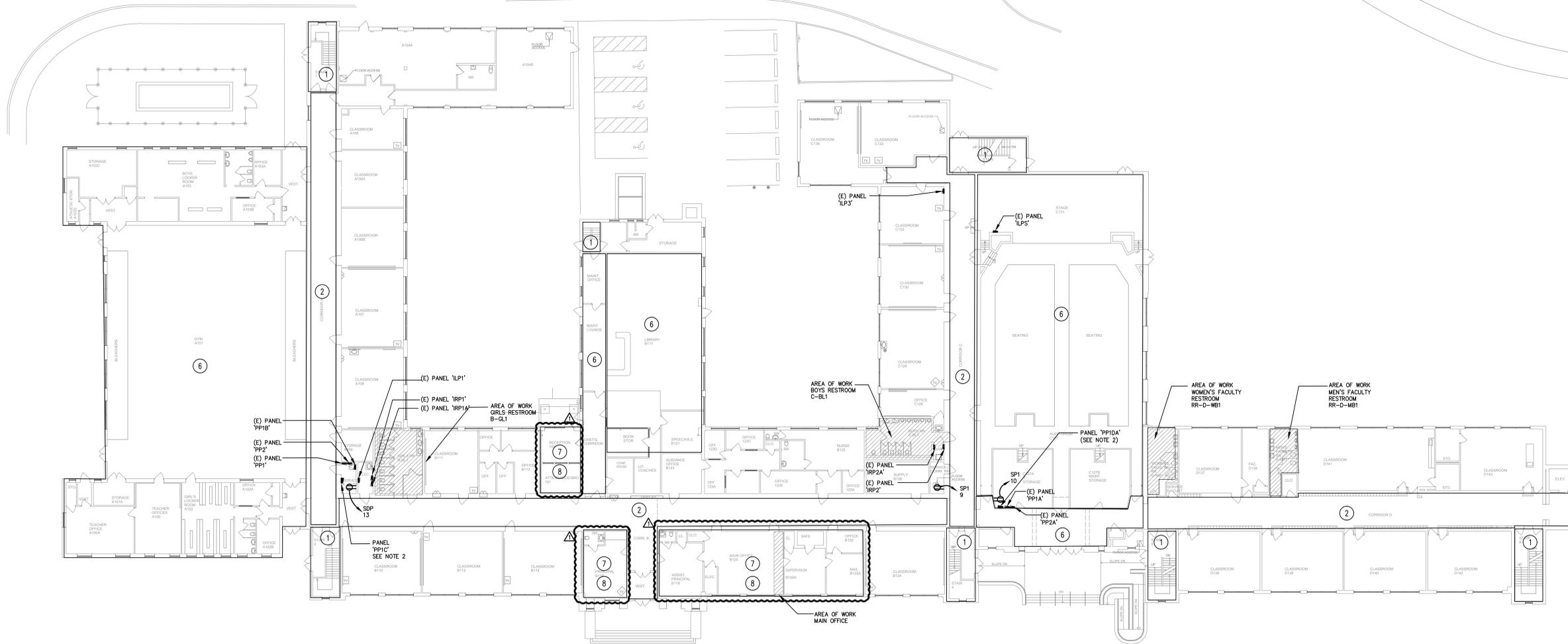
ADDRESS:
 LINDENWOLD MIDDLE SCHOOL
 BLOCK 145, LOT 2
 40 WHITE HORSE AVENUE
 LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

REVISION DATE:	06 FEB 2025

DRAWING DATE:	
PRINT DATE:	17 January 2025
DRAWN BY:	LA
SHEET TITLE:	BASEMENT PLAN - ELECTRICAL

E102



1 FIRST FLOOR PLAN - ELECTRICAL
E103 SCALE 1/16" = 1'-0"

- NOTES
1. FOR GENERAL NOTES REFER TO DRAWING E201.
 2. FOR KEYED NOTES REFER TO DRAWING E102.

DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.



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 SIZE AT 10" x 42" - DO NOT SCALE DRAWINGS

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 21A100912100

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 PRINCETON JUNCTION NEW JERSEY 08550
 Frank Tindall, P.E.
 Professional Engineer
 NJ 38656

PROJECT TITLE:
**BUILDING RENOVATIONS
 LINDENWOLD MIDDLE
 SCHOOL**

ADDRESS:
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 BLOCK 145, LOT 2
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PROJECT NO.: **5773A**

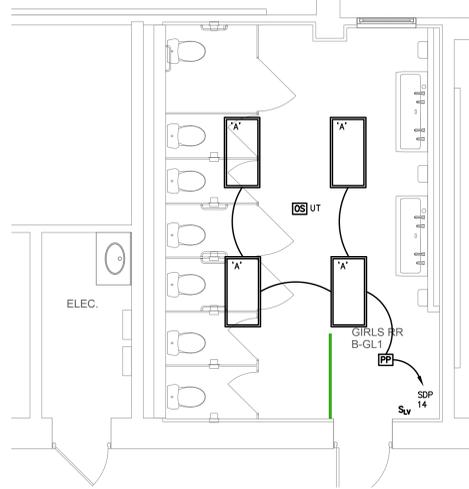
REVISION DATE: **06 FEB 2025**

DRAWING DATE:
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 DRAWN BY: **LA**

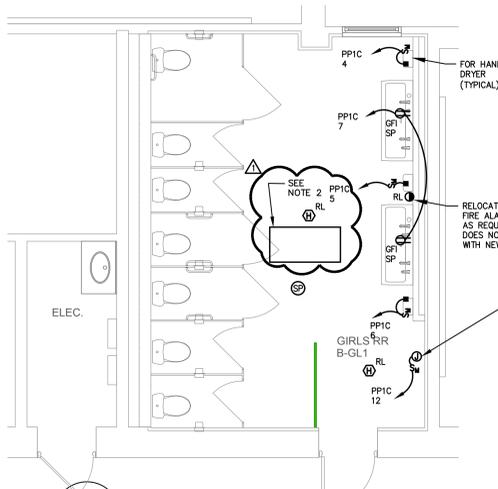
SHEET TITLE:
**FIRST FLOOR
 PLAN -
 ELECTRICAL**

E103

January 16, 2025 3:33:29 p.m.
 Drawing: 3191 E103



1 GIRLS RESTROOM - LIGHTING
E105 SCALE 1/4" = 1'-0"



2 GIRLS RESTROOM - POWER
E105 SCALE 1/4" = 1'-0"

NOTE:
1. RECONNECT EXISTING CABINET UNIT HEATER BACK TO EXISTING POWER CIRCUITING AFTER BEING RELOCATED INTO NEW CEILING GRID, EXTEND TO EXISTING CIRCUIT WITH WIRING IN KIND.

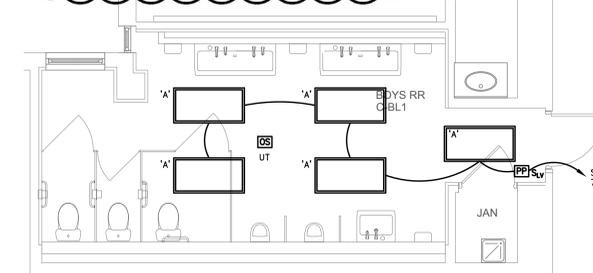


5 FACULTY RESTROOM - LIGHTING
E105 SCALE 1/4" = 1'-0"

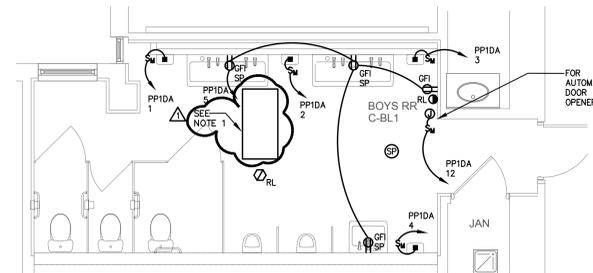
PANELBOARD 'PP1C'						
208/120V, 3Φ, 4W, S/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER	LOAD	CIRCUIT DESCRIPTION	WIRE & CONDUIT		
	AMPS	POLES	KVA	HP		
1	20	1	0.5	-	EXISTING	SEE NOTE 1
2	20	1	0.5	-	EXISTING	SEE NOTE 1
3	20	1	0.5	-	EXISTING	SEE NOTE 1
4	20	1	1.5	-	GIRLS RR BGL1 - HD	2 #12 & 1 #12 GRD - 3/4"
5	20	1	1.5	-	GIRLS RR BGL1 - HD	2 #12 & 1 #12 GRD - 3/4"
6	20	1	1.5	-	GIRLS RR BGL1 - HD	2 #12 & 1 #12 GRD - 3/4"
7	20	1	0.2	-	GIRLS RR BGL1 - AUTO FAUCET	2 #12 & 1 #12 GRD - 3/4"
8	20	1	1.5	-	GIRLS RR BGL2 - HD	2 #12 & 1 #12 GRD - 3/4"
9	20	1	1.5	-	GIRLS RR BGL2 - HD	2 #12 & 1 #12 GRD - 3/4"
10	20	1	1.5	-	GIRLS RR BGL2 - HD	2 #12 & 1 #12 GRD - 3/4"
11	20	1	0.2	-	GIRLS RR BGL2 - AUTO FAUCET	2 #12 & 1 #12 GRD - 3/4"
12	20	1	0.5	-	GIRLS RR BGL1 - DOOR OPER.	2 #12 & 1 #12 GRD - 3/4"
13	20	1	0.5	-	GIRLS RR BGL2 - DOOR OPER.	2 #12 & 1 #12 GRD - 3/4"
14	20	1	0.4	-	MAIN OFFICE RECEPS	2 #12 & 1 #12 GRD - 3/4"
15	20	1	0.2	-	MAIN OFFICE RECEPS	2 #12 & 1 #12 GRD - 3/4"
16	20	1	0.2	-	MAIN OFFICE RECEPS	2 #12 & 1 #12 GRD - 3/4"
17	20	2	-	-	SPARE	-
18	20	2	-	-	SPARE	-
19	20	1	-	-	SPARE	-
20	20	1	-	-	SPARE	-
21	20	1	-	-	SPARE	-
22	20	1	-	-	SPARE	-
23	-	1	-	-	SPACE	-
24	-	1	-	-	SPACE	-
25	-	1	-	-	SPACE	-
26	-	1	-	-	SPACE	-
27	-	1	-	-	SPACE	-
28	-	1	-	-	SPACE	-
12.7 TOTAL CONNECTED LOAD						

NOTE 1 - EXTEND CIRCUITING TO SUBPANEL WITH WIRING AND CONDUIT IN KIND.

PANELBOARD 'PP1DA'						
208/120V, 3Φ, 4W, S/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER	LOAD	CIRCUIT DESCRIPTION	WIRE & CONDUIT		
	AMPS	POLES	KVA	HP		
1	20	1	1.5	-	BOYS RR C-BL1 - HAND DRYER	2 #12 & 1 #12 GRD - 3/4"
2	20	1	1.5	-	BOYS RR C-BL1 - HAND DRYER	2 #12 & 1 #12 GRD - 3/4"
3	20	1	1.5	-	BOYS RR C-BL1 - HAND DRYER	2 #12 & 1 #12 GRD - 3/4"
4	20	1	1.5	-	BOYS RR C-BL1 - HAND DRYER	2 #12 & 1 #12 GRD - 3/4"
5	20	1	0.2	-	BOYS RR C-BL1 - AUTO FAUCET	2 #12 & 1 #12 GRD - 3/4"
6	20	1	1.5	-	WOMENS FAC RR-D-WB1 - HD	2 #12 & 1 #12 GRD - 3/4"
7	20	1	1.5	-	WOMENS FAC RR-D-WB1 - HD	2 #12 & 1 #12 GRD - 3/4"
8	20	1	0.2	-	WOM FAC RR-D-WB1-AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
9	20	1	0.5	-	WOM FAC RR-D-WB1-AUTO DR	2 #12 & 1 #12 GRD - 3/4"
10	20	1	0.2	-	MEN FAC RR-D-WB1-AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
11	20	1	0.5	-	MEN FAC RR-D-WB1-AUTO DR	2 #12 & 1 #12 GRD - 3/4"
12	20	1	-	-	BOYS - CBL1 AUTO DOOR	2 #12 & 1 #12 GRD - 3/4"
13	20	2	-	-	SPARE	-
14	20	2	-	-	SPARE	-
15	20	1	-	-	SPARE	-
16	20	1	-	-	SPARE	-
17	20	1	-	-	SPARE	-
18	20	1	-	-	SPARE	-
19	20	1	-	-	SPARE	-
20	20	1	-	-	SPARE	-
21	20	1	-	-	SPARE	-
22	20	1	-	-	SPARE	-
23	-	1	-	-	SPACE	-
24	-	1	-	-	SPACE	-
25	-	1	-	-	SPACE	-
26	-	1	-	-	SPACE	-
27	-	1	-	-	SPACE	-
28	-	1	-	-	SPACE	-
10.6 TOTAL CONNECTED LOAD						

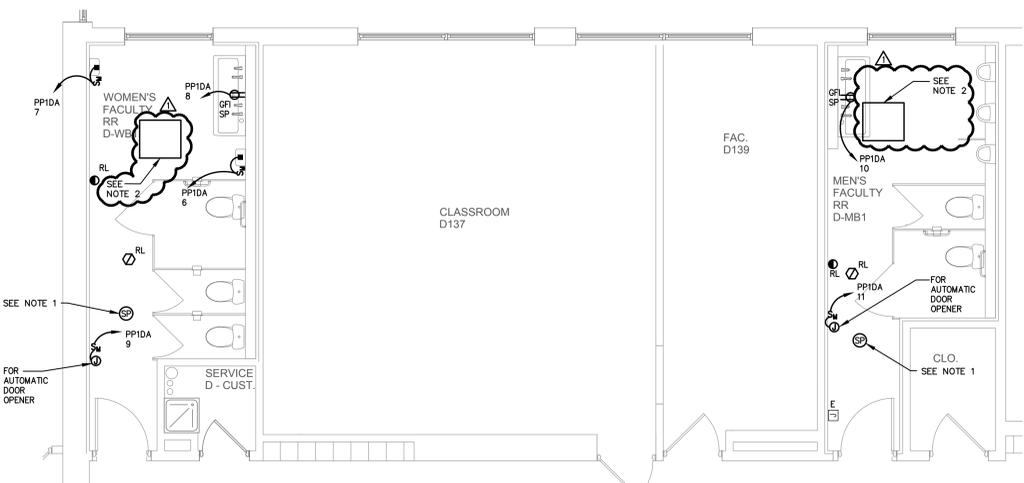


3 BOYS RESTROOM - LIGHTING
E105 SCALE 1/4" = 1'-0"



4 BOYS RESTROOM - POWER
E105 SCALE 1/4" = 1'-0"

NOTE:
1. RECONNECT EXISTING CABINET UNIT HEATER BACK TO EXISTING POWER CIRCUITING AFTER BEING RELOCATED INTO NEW CEILING GRID, EXTEND TO EXISTING CIRCUIT WITH WIRING IN KIND.



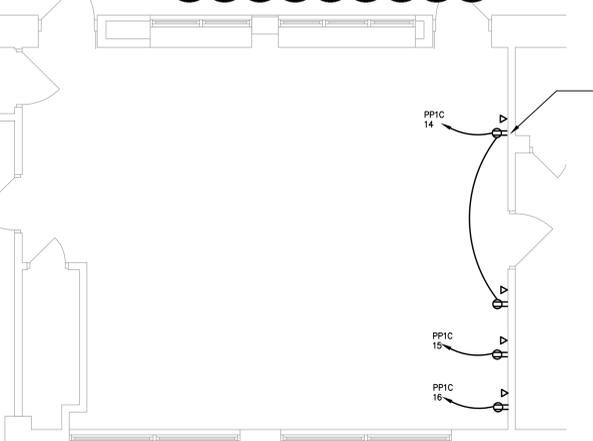
6 FACULTY RESTROOM - POWER
E105 SCALE 1/4" = 1'-0"

NOTES:
1. EXTEND EXISTING WIRING IN KIND TO NEW SPEAKER.
2. RECONNECT EXISTING CABINET UNIT HEATER BACK TO EXISTING POWER CIRCUITING AFTER BEING RELOCATED INTO NEW CEILING GRID, EXTEND TO EXISTING CIRCUIT WITH WIRING IN KIND.

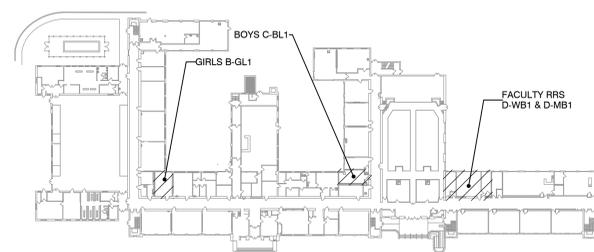
LIGHTING FIXTURE SCHEDULE					
ID	LAMPS	MANUF.	CAT. NO.	MOUNTING	DESCRIPTION
A	30W LED 3250 LUMEN SPX 35	COLUMBIA	LCAT24-35WG-EDU-G	RECESSED	2' x 4' ARCHITECTURAL CENTER LENS TROFFER, COLD ROLLED STEEL HOUSING, ACRYLIC ENCLOSED LENS, 0-10V DIMMING, UNIVERSAL 120-277V INPUT, GRID MOUNTED

- LIGHTING FIXTURE NOTES:**
- ALL FIXTURES SHALL COMPLY WITH ASHRAE/IESNA 90.1 2016 LIGHTING EFFICACY STANDARDS FOR NEW COMMERCIAL BUILDINGS.
 - CONNECT ALL EXIT SIGNS AHEAD OF ALL SWITCHING AND CONTROLS.
 - PROMOTE ALL EMERGENCY LIGHTING CONTROL RELAYS AND LIGHT FIXTURES SPECIFIED WITH EMERGENCY BATTERY BACKUP WITH AN UNSWITCHED PHASE LEG TO MONITOR FOR NORMAL POWER FAILURE.
 - VERIFY EXACT LOCATION OF FIXTURES IN FIELD WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

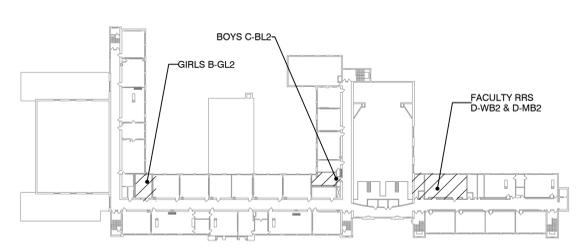
- AUTOMATIC LIGHTING CONTROL NOTES:**
- FURNISH AND INSTALL ALL WIRING AND DEVICES AS RECOMMENDED BY THE MANUFACTURER'S WRITTEN INSTRUCTION FOR THE INSTALLATION OF OCCUPANCY SENSORS.
 - PROVIDE ALL RELAYS, POWER PACKS AND LOW VOLTAGE WIRING AS REQUIRED.
 - VERIFY ALL OCCUPANCY SENSORS TO BE FURNISHED AND INSTALLED WITH LOW VOLTAGE OR LINE VOLTAGE INPUTS.
 - THE CONTRACTOR SHALL SET ALL PROGRAMMABLE TIME DELAYS TO A MINIMUM OF 15 MINUTES UNLESS OTHERWISE NOTED. ALL OCCUPANCY SENSORS WITH AN AUTOMATIC SENSITIVITY SETTING SHALL BE SET TO AUTOMATIC UNLESS A REDUCED SENSITIVITY SETTING IS RECOMMENDED BY THE MANUFACTURER OR REQUESTED BY THE OWNER. ALL OCCUPANCY SENSORS WITH A SELECTABLE WALK-THROUGH MODE SHALL BE SET TO THIS MODE.



7 MAIN OFFICE - ELECTRICAL
E105 SCALE 1/4" = 1'-0"



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REGAN YOUNG, AIA
21A00912100

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN
456 HIGH STREET • MT. HOLLY NEW JERSEY 08060 USA
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P.O. BOX 777, 196 PRINCETON-HIGHTSTOWN RD.
PRINCETON JUNCTION NEW JERSEY 08550

Frank Tindall, P.E.
Professional Engineer
NJ 38656

PROJECT TITLE:
**BUILDING RENOVATIONS
LINDENWOLD MIDDLE
SCHOOL**

ADDRESS:
LINDENWOLD MIDDLE SCHOOL
BLOCK 145, LDT 2
40 WHITE HORSE AVENUE
LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

REVISION DATE: **06 FEB 2025**

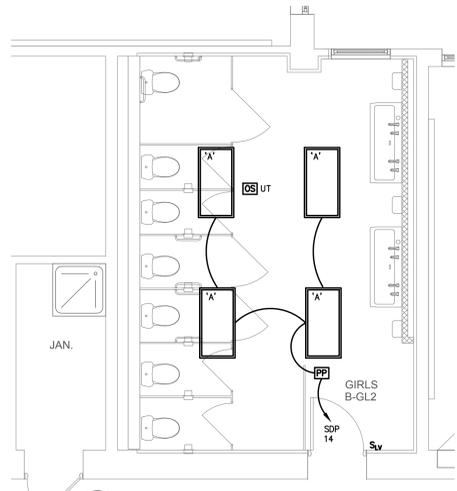
DRAWING DATE:

PRINT DATE: **17 January 2025**

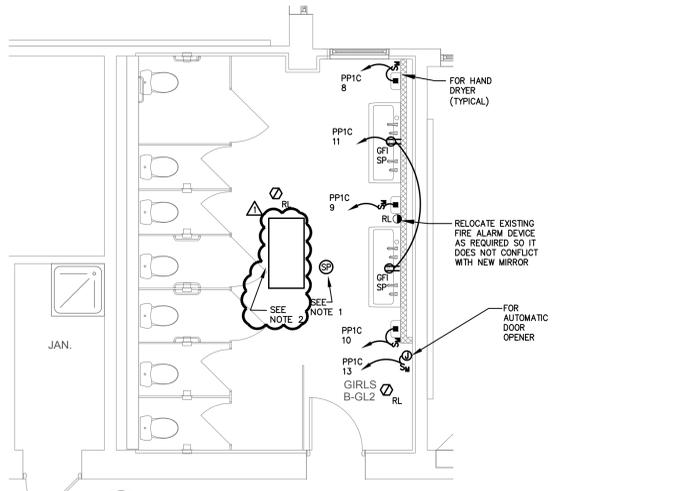
DRAWN BY: **AS**

SHEET TITLE: **FIRST FLOOR
RESTROOMS -
ELECTRICAL**

E105

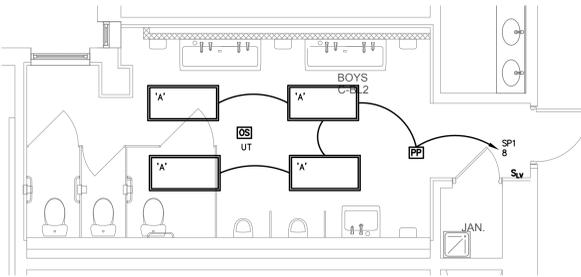


1 GIRLS RESTROOM - LIGHTING
E106 SCALE 1/4" = 1'-0"

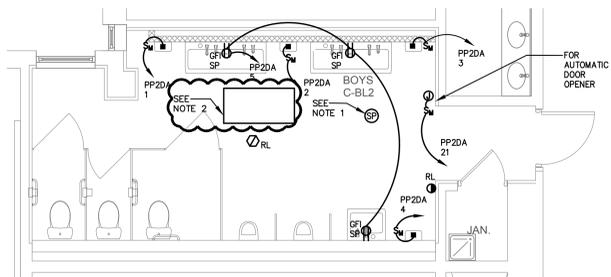


2 GIRLS RESTROOM - POWER
E106 SCALE 1/4" = 1'-0"

- NOTES:
1. EXTEND EXISTING WIRING IN KIND TO NEW SPEAKER.
 2. RECONNECT EXISTING CABINET UNIT HEATER BACK TO EXISTING POWER CIRCUITING AFTER BEING RELOCATED INTO NEW CEILING GRID, EXTEND TO EXISTING CIRCUIT WITH WIRING IN KIND.

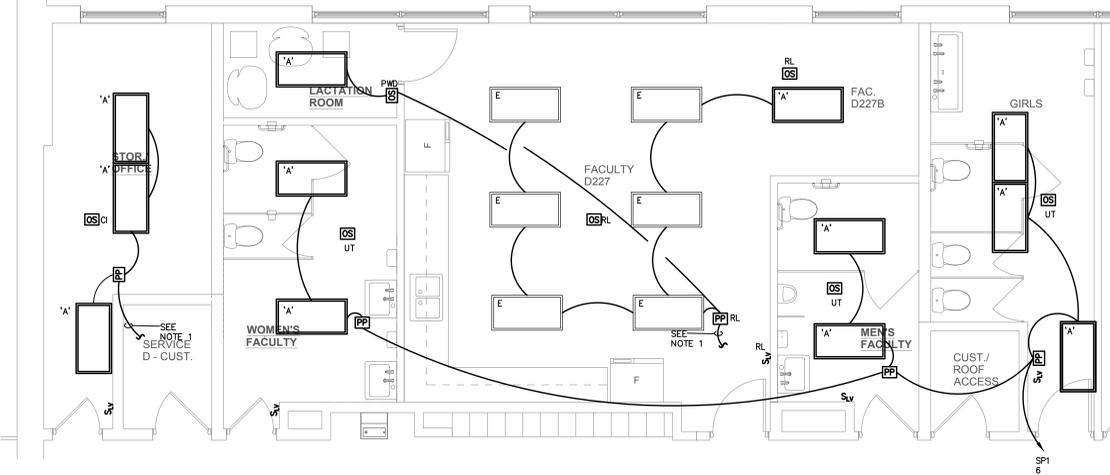


3 BOYS RESTROOM - LIGHTING
E106 SCALE 1/4" = 1'-0"



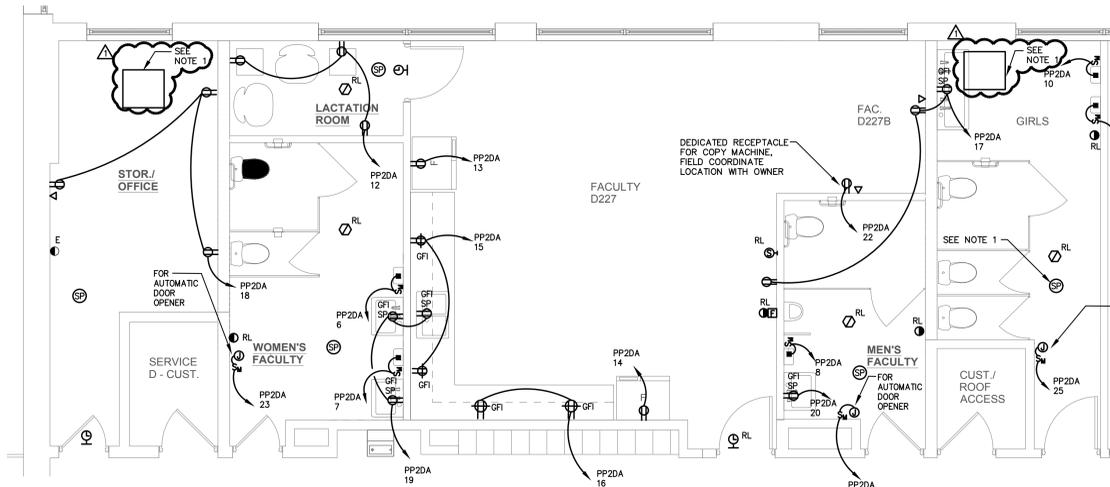
4 BOYS RESTROOM - POWER
E106 SCALE 1/4" = 1'-0"

- NOTES:
1. EXTEND EXISTING WIRING IN KIND TO NEW SPEAKER.



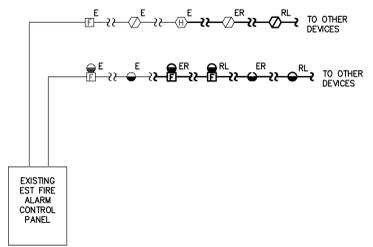
5 FACULTY RESTROOM - LIGHTING
E106 SCALE 1/4" = 1'-0"

- NOTES:
1. PROVIDE AND CONNECT TO EXISTING LIGHTING CIRCUIT IN AREA, VIA 2 #12 & 1 #12 GRD - 3/4".



6 FACULTY RESTROOM - POWER
E106 SCALE 1/4" = 1'-0"

- NOTE:
1. RECONNECT EXISTING CABINET UNIT HEATER BACK TO EXISTING POWER CIRCUITING AFTER BEING RELOCATED INTO NEW CEILING GRID, EXTEND TO EXISTING CIRCUIT WITH WIRING IN KIND.

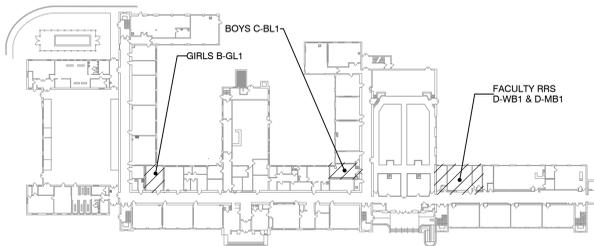


7 FIRE ALARM SYSTEM RISER DIAGRAM
E106 SCHEMATIC

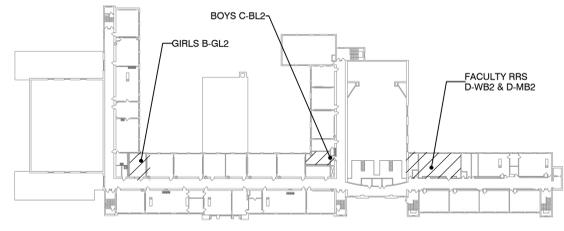
FIRE ALARM SYSTEM NOTES:

1. PROVIDE ALL WIRING AS RECOMMENDED BY MANUFACTURER. ALL WIRING SHALL BE IN CONDUIT. FIRE ALARM LABELED MC CABLE MAY BE USED IN CONCEALED LOCATIONS WHERE PERMITTED BY CODE.
2. CONTRACTOR IS RESPONSIBLE FOR INSURING THAT FIRE ALARM SYSTEM MODIFICATIONS MEET ALL APPLICABLE CODES AND FOR OBTAINING FINAL APPROVAL FROM LOCAL FIRE INSPECTOR(S).
3. PRIOR TO STARTING WORK, PREPARE SHOP DRAWINGS INCLUDING ALL INFORMATION REQUIRED UNDER IBC, SECTION 907.1.2. SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. ONCE APPROVED, SUBMIT SHOP DRAWINGS TO CODE REVIEWER/INSPECTOR(S) FOR APPROVAL.
4. EXPAND EXISTING FIRE ALARM SYSTEM AS REQUIRED TO CONNECT NEW DEVICES. PROVIDE ALL NEW HARDWARE, RELAYS, MODULES, WIRING, BATTERIES, ECT., AS NECESSARY FOR COMPLETE INSTALLATION.
5. PROVIDE ALL PROGRAMMING BY A FACTORY CERTIFIED VENDOR AS REQUIRED TO MAKE THE NECESSARY MODIFICATION TO THE SYSTEM. INCLUDE ANY HARDWARE, WIRING, OF COMPONENTS NECESSARY FOR CONTINUED REUSE.
6. PROVIDE AT EACH LOCATION SHOWN, AUDIO/VISUAL DEVICES WITH OUTPUT LEVELS AS RECOMMENDED BY MANUFACTURER FOR THE SPACE. TO COMPLY WITH ADA & CODE REQUIREMENTS. PROVIDE ADDITIONAL DEVICES TO THOSE SHOWN IF AS REQUIRED TO MEET LEVELS AT NO ADDITIONAL COST.
7. ALL FIRE ALARM CONTROL PANELS, REMOTE ANNUNCIATORS, AND BOOSTER PANELS SHALL HAVE SMOKE DETECTORS COVERAGE ABOVE. PROVIDE DEVICES WHETHER SHOWN ON PLANS OR NOT.
8. UPON COMPLETION OF FIRE ALARM WORK, PROVIDE A RE-ACCEPTANCE TEST OF THE ENTIRE SYSTEM PER NFPA 72.

PANELBOARD 'PP2DA'						
208/120V, 3φ, 4W, 5/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER		LOAD	CIRCUIT DESCRIPTION	WIRE & CONDUIT	
	AMPS	POLES				
1	20	1	1.5	-	BOYS C-BL2 RR - HD	2 #12 & 1 #12 GRD - 3/4"
2	20	1	1.5	-	BOYS C-BL2 RR - HD	2 #12 & 1 #12 GRD - 3/4"
3	20	1	1.5	-	BOYS C-BL2 RR - HD	2 #12 & 1 #12 GRD - 3/4"
4	20	1	1.5	-	BOYS C-BL2 RR - HD	2 #12 & 1 #12 GRD - 3/4"
5	20	1	0.2	-	BOYS C-BL2 RR - AUTO FAUCET	2 #12 & 1 #12 GRD - 3/4"
6	20	1	1.5	-	WOMEN'S FAC RR - 2ND FL HD	2 #12 & 1 #12 GRD - 3/4"
7	20	1	1.5	-	WOMEN'S FAC RR - 2ND FL HD	2 #12 & 1 #12 GRD - 3/4"
8	20	1	1.5	-	MEN'S FAC RR - 2ND FL HD	2 #12 & 1 #12 GRD - 3/4"
9	20	1	0.2	-	GIRLS RR - 2ND FL AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
10	20	1	1.5	-	GIRLS RR - 2ND FL HD	2 #12 & 1 #12 GRD - 3/4"
11	20	1	1.5	-	GIRLS RR - 2ND FL HD	2 #12 & 1 #12 GRD - 3/4"
12	20	1	0.4	-	LACTATION RM - RECEPTS.	2 #12 & 1 #12 GRD - 3/4"
13	20	1	0.5	-	FACULTY - REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"
14	20	1	0.5	-	FACULTY - REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"
15	20	1	0.4	-	FACULTY - AB. CTR. REEP.	2 #12 & 1 #12 GRD - 3/4"
16	20	1	0.4	-	FACULTY - AB. CTR. REEP.	2 #12 & 1 #12 GRD - 3/4"
17	20	1	0.2	-	GIRLS RR - 2ND FL AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
18	20	1	0.54	-	STOR/OFFICE - RECEPTS.	2 #12 & 1 #12 GRD - 3/4"
19	20	1	0.2	-	WOMEN FACULTY AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
20	20	1	0.2	-	MEN FACULTY AUTO FAUC.	2 #12 & 1 #12 GRD - 3/4"
21	20	1	0.5	-	BOYS - CBL2 AUTO DOOR	2 #12 & 1 #12 GRD - 3/4"
22	20	1	0.2	-	FACULTY COPIER	2 #12 & 1 #12 GRD - 3/4"
23	20	1	0.5	-	WOMEN'S FACULTY AUTO DOOR	2 #12 & 1 #12 GRD - 3/4"
24	20	1	0.5	-	MEN'S FACULTY AUTO DOOR	2 #12 & 1 #12 GRD - 3/4"
25	20	1	0.5	-	GIRLS AUTO DOOR	2 #12 & 1 #12 GRD - 3/4"
26	20	2	-	-	SPARE	-
27	20	2	-	-	SPARE	-
28	20	1	-	-	SPARE	-
19.44				TOTAL CONNECTED LOAD		



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

EXISTING PANELBOARD 'NE-1'										
208/120V, 3ø, 4W, S/N, SURFACE, 225A/3P MAIN CIRCUIT BREAKERY, 42 KAIC										
CKT#	DESCRIPTION	LOAD KVA	BR. BREAKER POLES	AMP	WIRE & CONDUIT	#A #B #C	WIRE & CONDUIT	CIR. BREAKER LOAD AMP POLES KVA	DESCRIPTION	CKT#
1									EXISTING CIRCUIT	2
3	SERVER ROOM		3	60	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	4
5								20 1	EXISTING CIRCUIT	6
7	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	8
9	TELEPH.&CLOCK SYS.		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	10
11	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	14
15	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	16
17	WALK IN REFRIGERATOR		1	20	EXISTING CIRCUIT			20 2	EXISTING CIRCUIT	18
19	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	H1	20
21	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	H2	22
23	FIRE ALARM		1	20	EXISTING CIRCUIT					24
25								20 3	WALK IN COOLER	26
27	FREEZER COMPRESSOR		3	20	EXISTING CIRCUIT					28
29								20 1	EXISTING CIRCUIT	30
31	EXISTING CIRCUIT		1	30	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	32
33	EXISTING CIRCUIT		1	20	EXISTING CIRCUIT			20 1	EXISTING CIRCUIT	34
35	HWM & SUMP PUMP		1	20	EXISTING CIRCUIT			20 1	HWM & SUMP PUMP	36
37										38
39	EXISTING CIRCUIT		3	20	EXISTING CIRCUIT			20 2	AIR COMPRESSOR	40
41								20 1	EXISTING CIRCUIT	42
SUB TOTAL KVA										
= TOTAL CONNECTED LOAD										

PANELBOARD 'SDP'										
208/120V, 3ø, 4W, S/N, SURFACE, 400A MAIN LUGS ONLY, 22 KAIC										
CKT. NO.	CIRCUIT BREAKER AMPS	POLES	LOAD KVA	HP	CIRCUIT DESCRIPTION	WIRE & CONDUIT				
1	150	3	27.1	25	ELEVATOR	SEE NOTE 1				
2	100	3	8.4		SUB-PANEL 'SP1'	SEE SINGLE LINE DIAGRAM				
3	20	1	0.5		RECEP. 100/ATT. 101 LTG.	2 #12 & 1 #12 GRD - 3/4"				
4	125	3	21.5	20	P-1					
5	125	3		20	P-2 (STANDBY)					
6	30	3	8.3		BOILER 1	3 #10 & 1 #10 GRD - 3/4"				
7	20	3	2.7		BOILER PUMP BP-1	3 #12 & 1 #12 GRD - 3/4"				
8	30	3	8.3		BOILER 2	3 #10 & 1 #10 GRD - 3/4"				
9	20	3	2.7		BOILER PUMP BP-2	3 #12 & 1 #12 GRD - 3/4"				
10	30	3	8.3		BOILER 3	3 #10 & 1 #10 GRD - 3/4"				
11	20	3	2.7		BOILER PUMP BP-3	3 #12 & 1 #12 GRD - 3/4"				
12	20	2	2.0		GENERATOR BLOCK HTR	2 #12 & 1 #12 GRD - 3/4"				
13	20	1	1.0		RECEP FOR TELE. RACK A111	2 #10 & 1 #10 GRD - 3/4"				
14	20	1	0.3		GRLS RR - B-GL1 LTG.	2 #10 & 1 #10 GRD - 3/4"				
15	20	1	0.3		GRLS RR - B-GL2 LTG.	2 #10 & 1 #10 GRD - 3/4"				
16	20	1	0.1		BOILER ROOM LTG.	2 #12 & 1 #12 GRD - 3/4"				
17	20	1	0.5		PRIN. 116 - LTG	2 #10 & 1 #10 GRD - 3/4"				
18	20	1	1.0		RM 118 - 122A LTG. (MAIN OFF)	2 #10 & 1 #10 GRD - 3/4"				
19	20	1	0.7		RECEP 100/ATT 101 - RECEPS	2 #12 & 1 #12 GRD - 3/4"				
20	20	1	0.5		RM B118 - RECEPS	2 #10 & 1 #10 GRD - 3/4"				
21	20	1	0.7		MAIN OFFICE - RECEPS	2 #10 & 1 #10 GRD - 3/4"				
22	20	1	0.7		MAIN OFFICE - RECEPS	2 #10 & 1 #10 GRD - 3/4"				
23	20	1	0.4		MAIN OFFICE - RECEPS	2 #10 & 1 #10 GRD - 3/4"				
24	20	1	0.7		B120-122A RECEPS	2 #10 & 1 #10 GRD - 3/4"				
25	20	1			SPARE					
26	20	1			SPARE					
27	20	1			SPARE					
28	20	1			SPARE					
29	20	1			SPARE					
30	20	1			SPARE					
31	20	1			SPARE					
32	20	2			SPARE					
33	20	2			SPARE					
34-62					SPARE					
SUB TOTAL KVA										
= TOTAL CONNECTED LOAD										

NOTE:
1. EXTEND WITH WIRING IN KIND FROM EXISTING 150A/3P CIRCUIT BREAKER SERVING ELEVATOR IN MDS. PROVIDE SHUNT TRIP BREAKER AS REQUIRED IF ELEVATOR SHAFT AND/OR MACHINE ROOM ARE SPRINKLERED.

SYMBOL LIST & ABBREVIATIONS	
	LIGHT FIXTURE - SEE SCHEDULE
	OCCUPANCY SENSOR - LETTER DENOTES TYPE OF SENSOR TO BE INSTALLED WATTSSTOPPER OR APPROVED EQUAL. REFER TO AUTOMATIC LIGHTING CONTROL NOTES. PROVIDE ALL HARDWARE AND PROGRAMMING AS REQUIRED.
	PWI = PW-100 PASSIVE INFRARED WALL SWITCH SENSOR - LINE VOLTAGE PWD = PW-100D PASSIVE INFRARED WALL SWITCH SENSOR W/DIMMER - LINE VOLTAGE UT = UT-300-2 ULTRASONIC CEILING MOUNT SENSOR
	POWER PACK TRANSFORMER AND RELAY, OUTPUT RELAYS RATED 20A BALLAST OR INCANDESCENT. PROVIDE QUANTITY OF RELAYS AS REQUIRED. REFER TO AUTOMATIC LIGHTING CONTROL NOTES.
	S SINGLE POLE SWITCH
	SLV LOW VOLTAGE MOMENTARY SWITCH
	DUPLEX RECEPTACLE, 20A, 125V, 2 POLE, 3 WIRE, GROUNDED GFI INDICATES GROUND FAULT INTERRUPTION, IG INDICATES ISOLATED GROUND SP = INDICATES GFI TYPE RECEPTACLE MOUNTED BELOW SINK TO PLUMBING FIXTURES, COORDINATE EXACT LOCATION IN FIELD
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT
	208/120V PANELBOARD
	VOICE/DATA/VIDEO OUTLET - 4" x 4" OUTLET BOX WITH 1-1/4" STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING, COORDINATE EXACT LOCATION IN FIELD.
	JUNCTION BOX
	SP DIMMER SWITCH, WATTSSTOPPER DCLV2 OR APPROVED EQUAL
	SM MANUAL MOTOR STARTER
	TRANSFORMER FOR CONNECTION TO AUTOMATIC FLUSH/AUTOMATIC FAUCET - LOCATE TRANSFORMERS IN AN ACCESSIBLE LOCATION. PROVIDE ALL CONNECTIONS AS REQUIRED FOR SENSOR OPERATION
	FA FIRE ALARM, SMOKE DETECTOR
	FAD FIRE ALARM, AUDIO/VISUAL DEVICE
	FVD FIRE ALARM, VISUAL DEVICE
	CS CEILING MOUNTED SPEAKER
	WS WALL MOUNTED SPEAKER
	C CLOCK
	WC WIRE & CONDUIT, CONCEALED IN CEILING OR WALL
	WSC WIRE & CONDUIT, CONCEALED IN SLAB OR BELOW GRADE
	HR HOMERUN TO PANEL, NUMERICAL INDICATES CIRCUIT NUMBER
	WC WIRE & CONDUIT, CONNECTION TO EQUIPMENT
	ATS AUTOMATIC TRANSFER SWITCH
	(E), E EXISTING
	ER EXISTING TO BE RELOCATED, CAREFULLY REMOVE AND STORE ON SITE. DISCONNECT AND SAFE-OFF ALL WIRING FOR FUTURE EXTENSION TO NEW LOCATION
	R EXISTING TO BE REMOVED
	RL RELOCATE EXISTING TO THIS LOCATION, COORDINATE EXACT LOCATION IN FIELD, PROVIDE NEW WIRING TO EXTEND EXISTING WIRING AS REQUIRED, MATCH EXISTING WIRING TYPE AND SIZE

GENERAL NOTES:
1. ALL EXIT SIGNS TO BE BACKED UP GENERATOR AND BE ALWAYS ON.
2. EXTERIOR LIGHTING CIRCUITS ON GENERATOR TO BE PHOTOCELL ON/PHOTOCELL OFF.
3. ALL NEW/RELOCATED SPEAKERS AND CLOCKS ARE TO BE CONNECTED TO THE EXISTING SCHOOL SPEAKER AND CLOCK SYSTEM. COORDINATE MAKE AND MODEL OF SPEAKERS AND CLOCKS TO BE PROVIDED WITH SCHOOL.

PANELBOARD 'EM'						
208/120V, 3ø, 4W, S/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER AMPS	POLES	LOAD KVA	HP	CIRCUIT DESCRIPTION	WIRE & CONDUIT
1	20	1	0.9		CORRIDOR D LIGHTS	2 #8 & 1 #8 GRD - 1"
2	20	1	0.9		CORRIDOR D2 LIGHTS	2 #8 & 1 #8 GRD - 1"
3	20	1	0.2		STAR 5 LTG	2 #8 & 1 #8 GRD - 1"
4	20	1	0.2		STAR 6 LTG	2 #8 & 1 #8 GRD - 1"
5	20	1	1.1		CAFETERIA LTG	2 #8 & 1 #8 GRD - 1"
6	20	1	1.4		CAFETERIA LTG	2 #8 & 1 #8 GRD - 1"
7	20	1	1.0		OUTSIDE EM LTG	MATCH EXISTING - SEE NOTE 1
8	20	1	1.0		OUTSIDE EM LTG	MATCH EXISTING - SEE NOTE 1
9	20	1	0.2		1ST FLOOR EXIT SIGNS	MATCH EXISTING - SEE NOTE 1
10	20	1	0.2		2ND FLOOR EXIT SIGNS	MATCH EXISTING - SEE NOTE 1
11	20	1	1.0		1ST FLOOR CORR. A LTG.	2 #8 & 1 #8 GRD - 1"
12	20	1	1.0		1ST FLOOR CORR. B LTG.	2 #10 & 1 #10 GRD - 3/4"
13	20	1	1.0		1ST FLOOR CORR. C LTG.	2 #8 & 1 #8 GRD - 1"
14	20	1	1.0		2ND FLOOR CORR. A LTG.	2 #8 & 1 #8 GRD - 1"
15	20	1	1.0		2ND FLOOR CORR. B LTG.	2 #10 & 1 #10 GRD - 3/4"
16	20	1	1.0		2ND FLOOR CORR. C LTG.	2 #8 & 1 #8 GRD - 1"
17	20	1	1.0		AUD. CORR. LTG. 2ND FL.	2 #8 & 1 #8 GRD - 1"
18	20	1	1.0		AUD. CORR. LTG. 1ST FL.	2 #8 & 1 #8 GRD - 1"
19	20	1	1.0		MAIN OFF/LOUNGE/CORR. OUTSIDE LIBRARY	2 #12 & 1 #12 GRD - 3/4"
20	20	1	0.5		STAR 1 LTG.	2 #8 & 1 #8 GRD - 1"
21	20	1	0.5		STAR 2 LTG.	2 #8 & 1 #8 GRD - 1"
22	20	1	0.5		STAR 3 LTG.	2 #8 & 1 #8 GRD - 1"
23	20	1	0.5		STAR 4 LTG.	2 #8 & 1 #8 GRD - 1"
24	20	1	0.5		STAR BY BOILER ROOM	2 #12 & 1 #12 GRD - 3/4"
25	20	1	0.5		GYMNASIUM LTG.	2 #8 & 1 #8 GRD - 1"
26	20	1	0.5		GIRLS LOCKER ROOM LTG.	2 #8 & 1 #8 GRD - 1"
27	20	1	0.5		BOYS LOCKER ROOM LTG.	2 #8 & 1 #8 GRD - 1"
28	20	1	0.5		1ST FLOOR CORR. OUTSIDE AUD.	2 #8 & 1 #8 GRD - 1"
29	20	1	0.5		2ND FLOOR CORR. OUTSIDE AUD.	2 #8 & 1 #8 GRD - 1"
30	20	1	0.5		AUDITORIUM LTG.	2 #8 & 1 #8 GRD - 1"
31	20	1	0.5		STAGE LTG.	2 #8 & 1 #8 GRD - 1"
32	20	1	0.5		LIBRARY LTG.	2 #12 & 1 #12 GRD - 3/4"
33	20	1			SPARE	
34	20	1			SPARE	
35	20	1			SPARE	
36	20	1			SPARE	
37	20	1			SPARE	
38	20	1			SPARE	
39	20	1			SPARE	
40	20	1			SPARE	
41	20	1			SPARE	
42	20	1			SPARE	
SUB TOTAL KVA						
= TOTAL CONNECTED LOAD						

NOTES:
ALL EXISTING EM/NIGHT/EXIT SIGN CIRCUITS SERVED FROM EXISTING GENERATOR BACKED PANELS TO BE REMOVED FROM PANEL AND PLACED ON NEW PANEL EM. ALL CIRCUITS SHALL BE FIELD EVALUATED AND EXTENDED TO NEW PANEL WITH WIRING IN KIND.

PANELBOARD 'SP1'						
208/120V, 3ø, 4W, S/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER AMPS	POLES	LOAD KVA	HP	CIRCUIT DESCRIPTION	WIRE & CONDUIT
1	15	2	1.5		ELEV. MACH. RM SPLIT UNIT	2 #12 & 1 #12 GRD - 3/4"
2	15	2	1.5		IT ROOM 242 SPLIT UNIT	2 #12 & 1 #12 GRD - 3/4"
3	20	1	1.0		2 DOOR REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"
4	20	1	1.0		RECEP FOR TELE. RACK 242	2 #10 & 1 #10 GRD - 3/4"
5	20	1	0.5		WOMENS FAC. RR D-WB1/MEN FAC. RR D-WB1 LTG.	2 #10 & 1 #10 GRD - 3/4"
6	20	1	0.5		BOYS FAC/WHY FAC/GRIL 2ND FL. RR - D WING LTG.	2 #10 & 1 #10 GRD - 3/4"
7	20	1	0.2		BOYS RR C-BL1 LTG.	2 #10 & 1 #10 GRD - 3/4"
8	20	1	0.2		BOYS RR C-BL2 LTG.	2 #10 & 1 #10 GRD - 3/4"
9	20	1	1.0		RECEP FOR TELE. RACK SER. C	2 #10 & 1 #10 GRD - 3/4"
10	20	1	1.0		RECEP FOR TELE. RACK C127A	2 #10 & 1 #10 GRD - 3/4"
11	20	1			SPARE	
12	20	1			SPARE	
13	20	1			SPARE	
14	20	1			SPARE	
15	20	1			SPARE	
16	20	1			SPARE	
17	20	1			SPARE	
18	20	1			SPARE	
19	20	1			SPARE	
20	20	1			SPARE	
21	20	1			SPARE	
22	20	1			SPARE	
23	20	1			SPARE	
24	20	1			SPARE	
25	20	1			SPARE	
26	20	1			SPARE	
SUB TOTAL KVA						
= TOTAL CONNECTED LOAD						

DRAWING REFERENCE SCALE, VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.

1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0"

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Frank Tindall, P.E.
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NJ 38656

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SCHOOL**

ADDRESS:
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BLOCK 145, LOT 2
40 WHITE HORSE AVENUE
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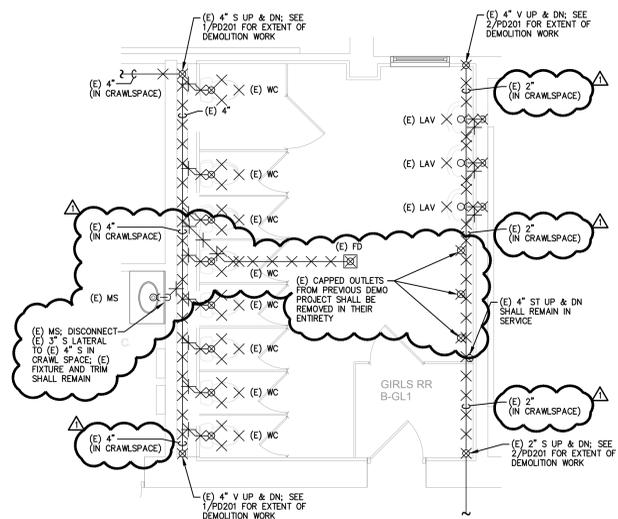
PROJECT NO.: **5773A**

REVISION DATE: **06 FEB 2025**

DRAWING DATE:
PRINT DATE: **17 January 2025**
DRAWN BY: **LA**

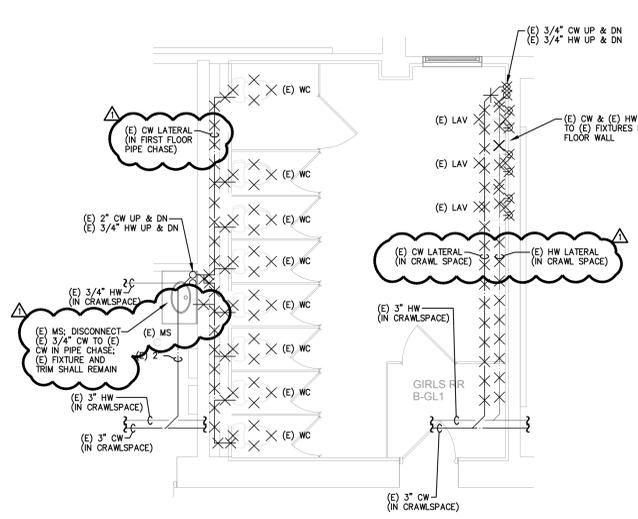
SHEET TITLE: **SCHEUDLES &
SYMBOL LIST -
ELECTRICAL**

E301



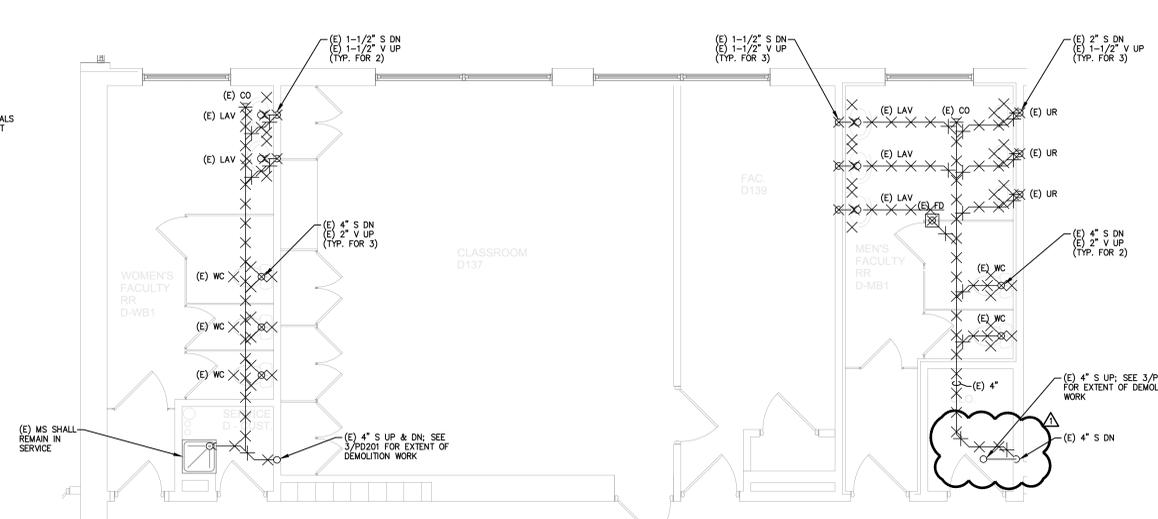
1 FIRST FLOOR GIRLS RR B-G11 - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING GIRLS RESTROOM B-G11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN GIRLS RESTROOM B-G11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



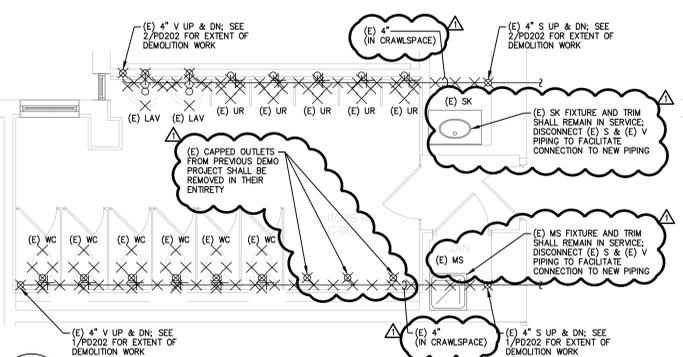
2 FIRST FLOOR GIRLS RR B-G11 - SANITARY WATER PIPING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING GIRLS RESTROOM B-G11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN GIRLS RESTROOM B-G11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



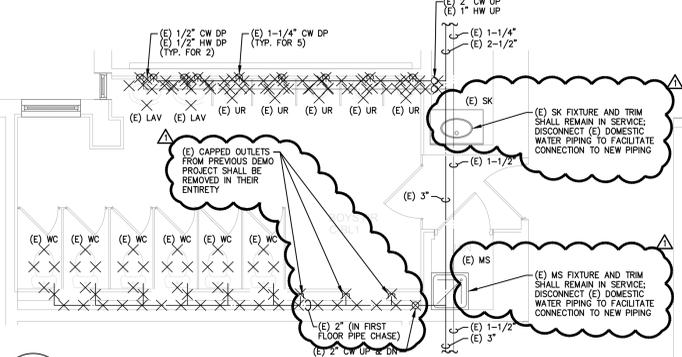
6 FIRST FLOOR FACULTY D-WB1 & D-MB1 - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING WOMEN'S FACULTY RESTROOM D-WB1 AND MEN'S FACULTY RESTROOM D-MB1 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN WOMEN'S FACULTY RESTROOM D-WB1 AND MEN'S FACULTY RESTROOM D-MB1 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 3. ALL HORIZONTAL PIPING SHOWN IS RUN IN THE BASEMENT CEILING.



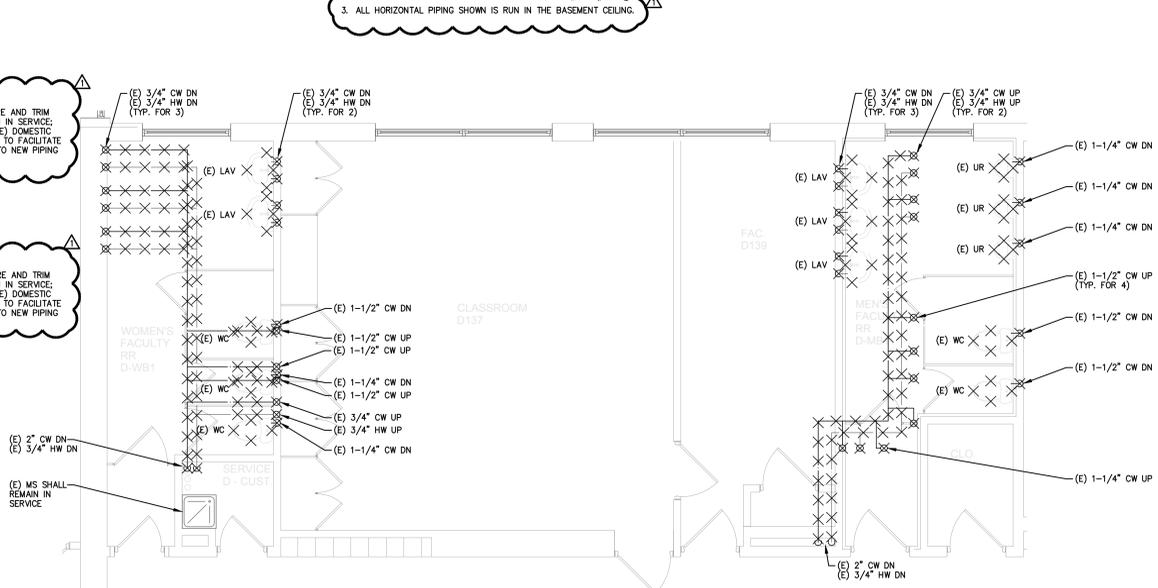
3 FIRST FLOOR BOYS RR C-B11 - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING BOYS RESTROOM C-B11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN BOYS RESTROOM C-B11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



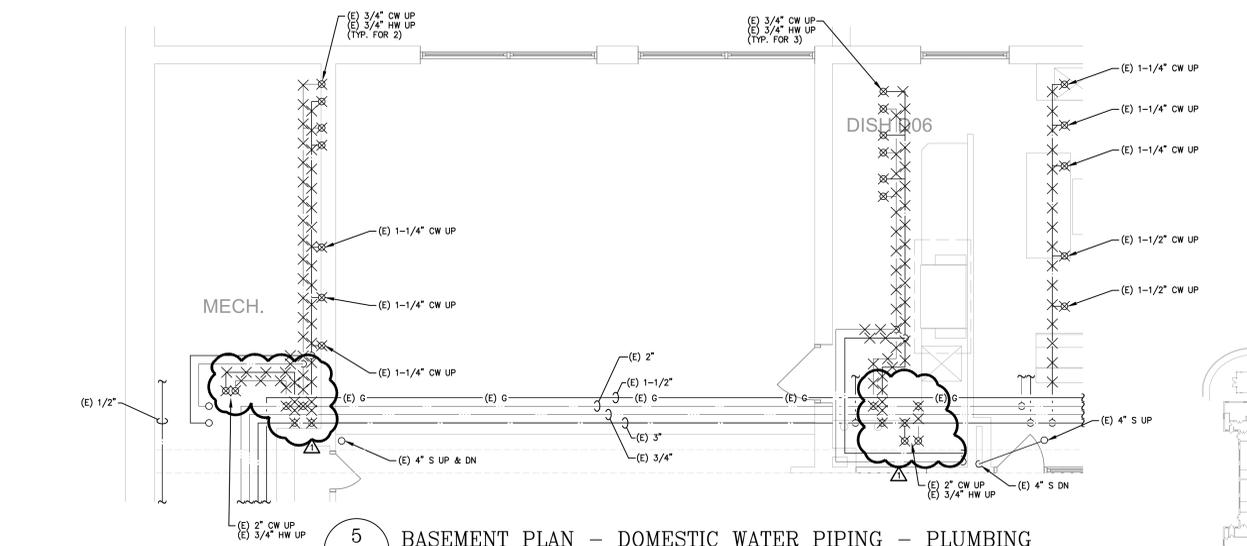
4 FIRST FLOOR BOYS RR C-B11 - DOMESTIC WATER PIPING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING BOYS RESTROOM C-B11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN BOYS RESTROOM C-B11 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



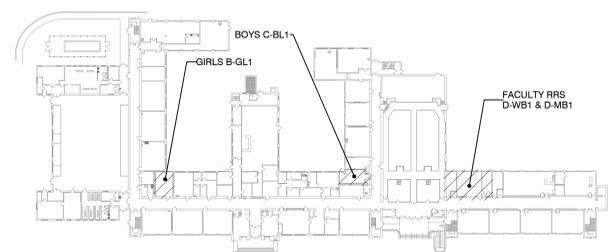
7 FIRST FLOOR FACULTY D-WB1 & D-MB1 - DOMESTIC WATER PIPING - PLUMBING DEMOLITION
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING WOMEN'S FACULTY RESTROOM D-WB1 AND MEN'S FACULTY RESTROOM D-MB1 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN WOMEN'S FACULTY RESTROOM D-WB1 AND MEN'S FACULTY RESTROOM D-MB1 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 3. ALL HORIZONTAL PIPING SHOWN IS RUN IN THE FIRST FLOOR CEILING.

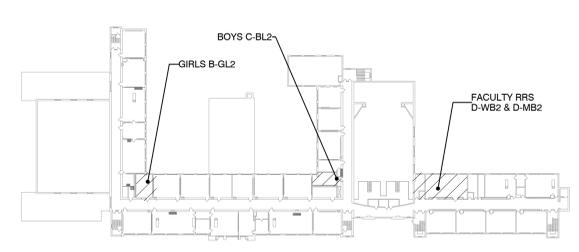


5 BASEMENT PLAN - DOMESTIC WATER PIPING - PLUMBING
 PD101 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL HORIZONTAL PIPING SHOWN IS RUN IN THE BASEMENT CEILING.



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REFER TO DEMOLITION NOTES ON DRAWING F901



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30" x 42". DO NOT SCALE DRAWINGS

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Frank Tindall, P.E.
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 NJ 38656

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ADDRESS:
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 LINDENWOLD, NJ 08021

PROJECT NO.: **5773A**

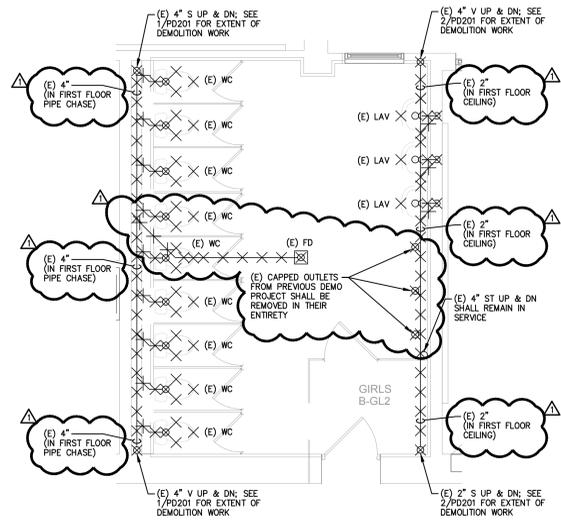
REVISION DATE: **30 JAN 2025**

DRAWING DATE:
 PRINT DATE: **17 January 2025**

DRAWN BY: **ACL**

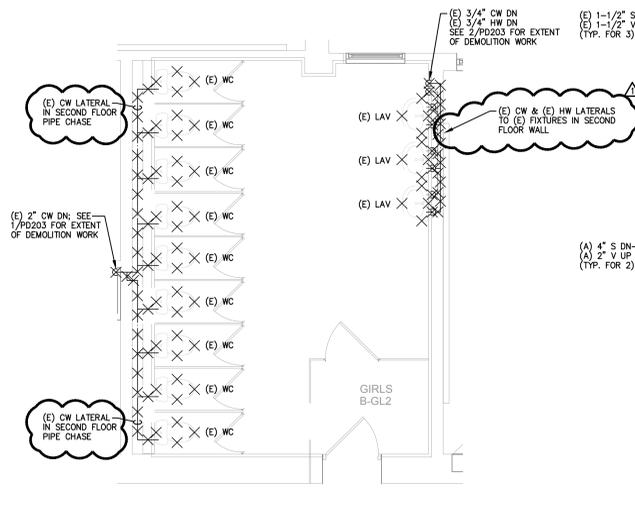
SHEET TITLE: **FIRST FLOOR
 RESTROOMS -
 PLUMBING**

PD101



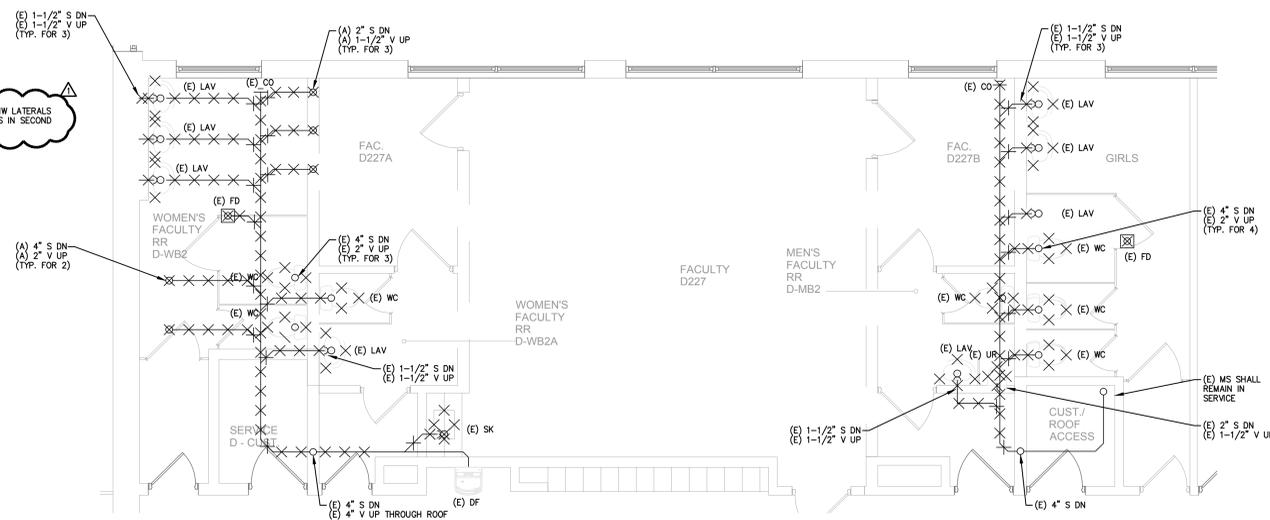
1 SECOND FLOOR GIRLS RR B-GL2 - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING GIRLS RESTROOM B-GL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN GIRLS RESTROOM B-GL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



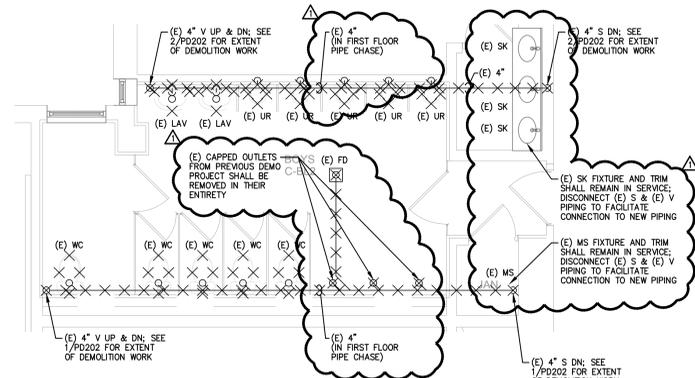
2 SECOND FLOOR GIRLS RR B-GL2 - DOMESTIC WATER PIPING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING GIRLS RESTROOM B-GL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN GIRLS RESTROOM B-GL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



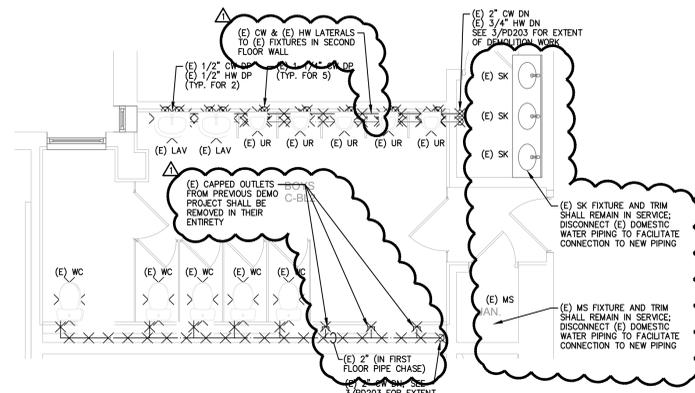
5 SECOND FLOOR FACULTY RR D-WB2, D-WB2A, D-MB2, AND GIRLS - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING WOMEN'S FACULTY RESTROOM D-WB2 AND MEN'S FACULTY RESTROOM D-MB2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN WOMEN'S FACULTY RESTROOM D-WB2 AND MEN'S FACULTY RESTROOM D-MB2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 3. ALL HORIZONTAL PIPING SHOWN IS RUN IN THE FIRST FLOOR CEILING.



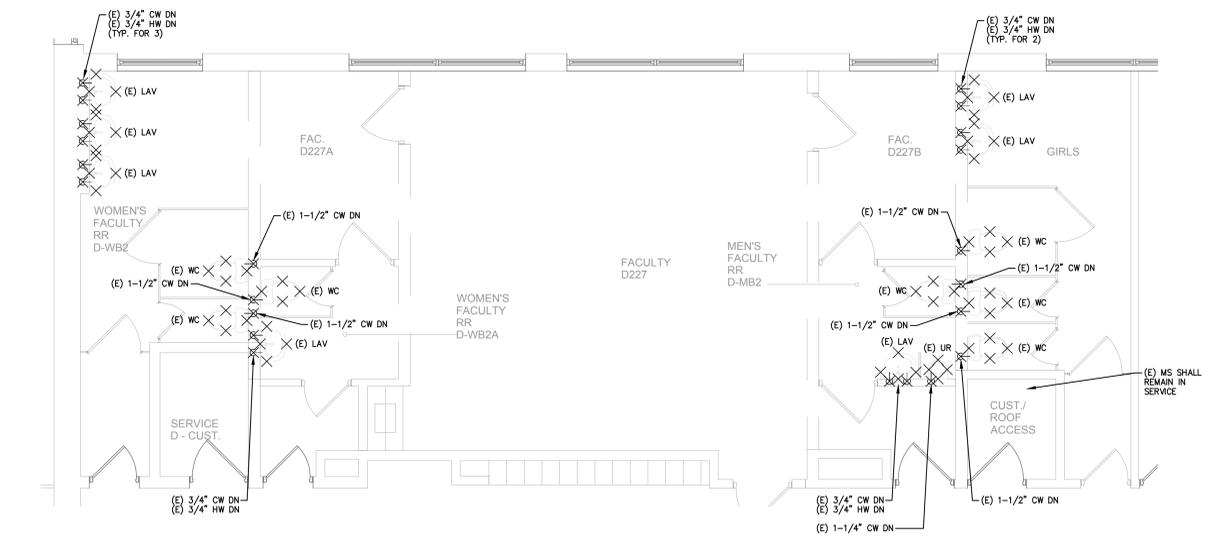
3 SECOND FLOOR BOYS RR C-BL2 - SANITARY AND VENTING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE SANITARY AND VENT PIPING SERVING BOYS RESTROOM C-BL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED SANITARY AND VENT PIPING WITHIN BOYS RESTROOM C-BL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



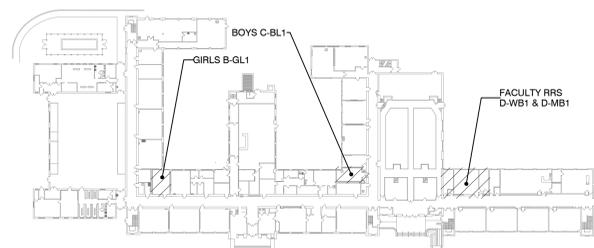
4 SECOND BOYS RR C-BL2 - DOMESTIC WATER PIPING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING BOYS RESTROOM C-BL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN BOYS RESTROOM C-BL2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.

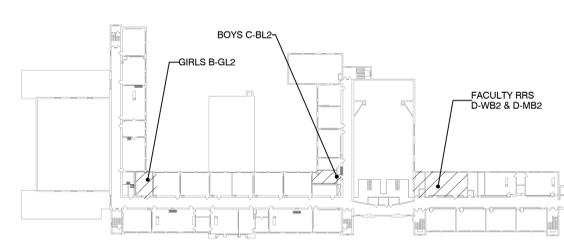


6 SECOND FLOOR FACULTY RR D-WB2, D-WB2A, D-MB2, AND GIRLS - DOMESTIC WATER PIPING - PLUMBING DEMOLITION
 PD102 SCALE 1/4" = 1'-0"

- NOTES:
1. ALL ACTIVE DOMESTIC WATER PIPING SERVING WOMEN'S FACULTY RESTROOM D-WB2 AND MEN'S FACULTY RESTROOM D-MB2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.
 2. ALL ABANDONED DOMESTIC WATER PIPING WITHIN WOMEN'S FACULTY RESTROOM D-WB2 AND MEN'S FACULTY RESTROOM D-MB2 SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER SHOWN OR NOT.



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REFER TO DEMOLITION NOTES ON DRAWING P301



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 BLOCK 145, LOT 2
 40 WHITE HORSE AVENUE
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PROJECT NO.: **5773A**

REVISION DATE: **30 JAN 2025**

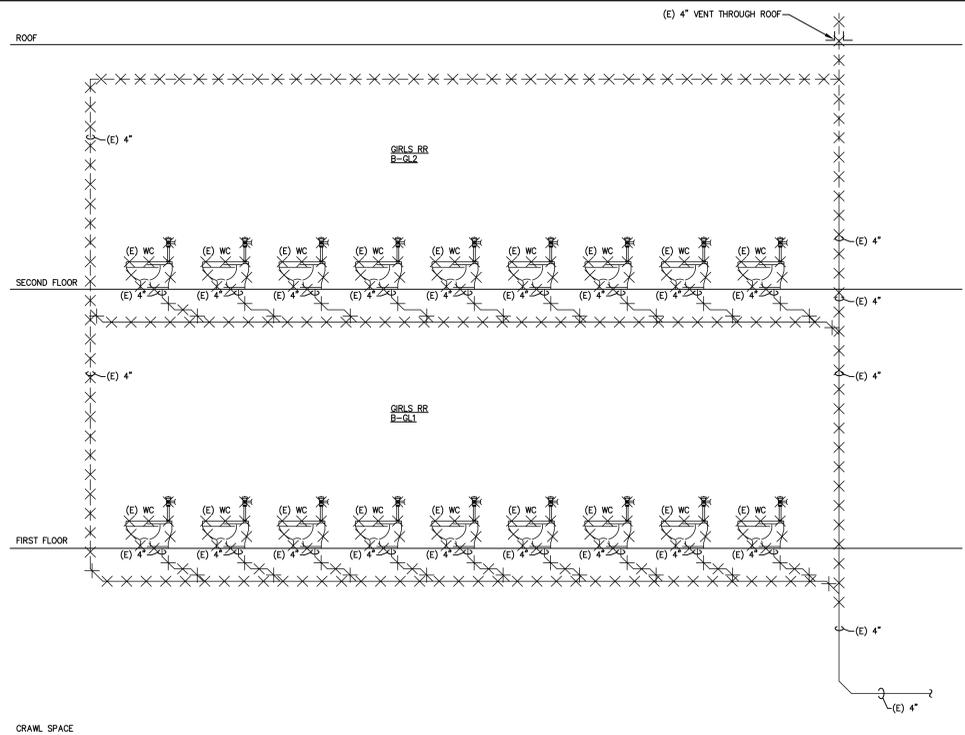
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PRINT DATE: **17 January 2025**

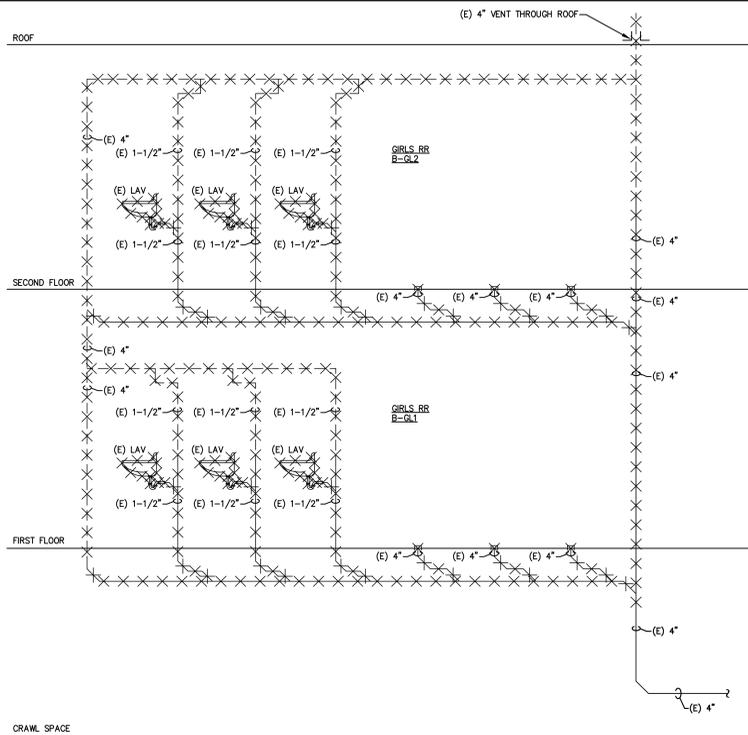
DRAWN BY: **ACL**

SHEET TITLE: **SECOND FLOOR
 RESTROOMS -
 PLUMBING
 DEMOLITION**

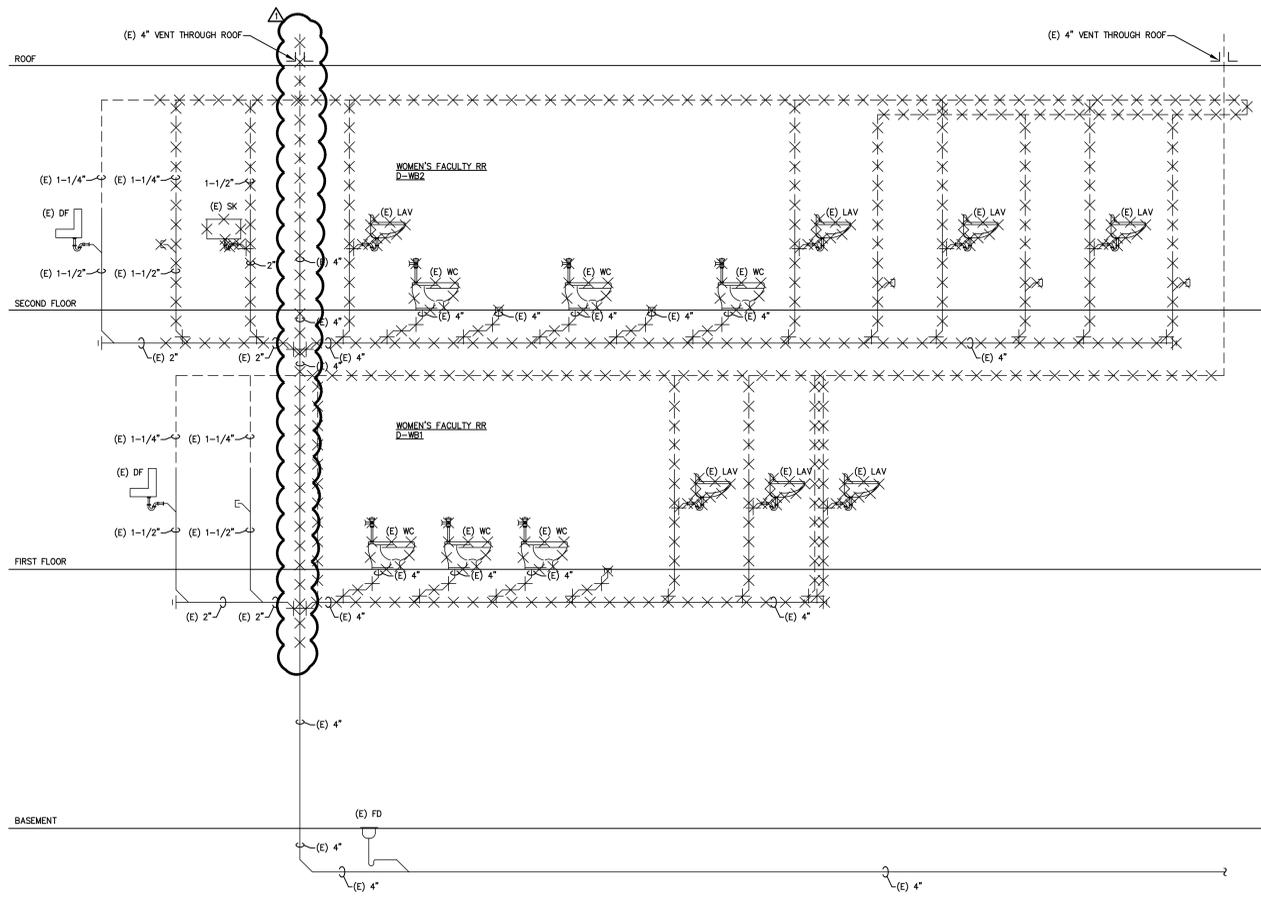
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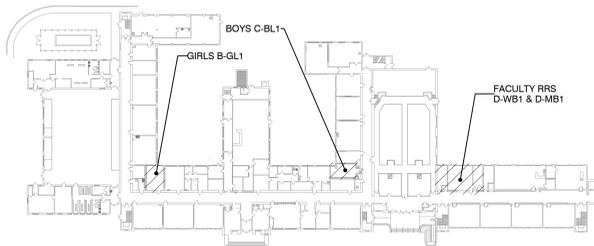
1 SANITARY RISER DIAGRAM – PLUMBING DEMOLITION
 PD201 NOT TO SCALE



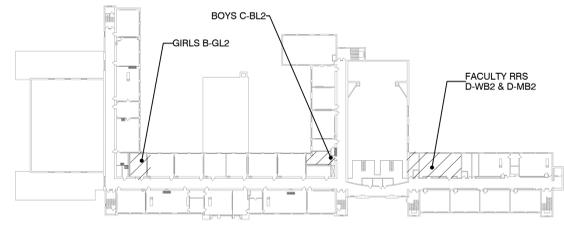
2 SANITARY RISER DIAGRAM – PLUMBING DEMOLITION
 PD201 NOT TO SCALE



3 SANITARY RISER DIAGRAM – PLUMBING DEMOLITION
 PD201 NOT TO SCALE



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



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PROJECT NO.: 5773A

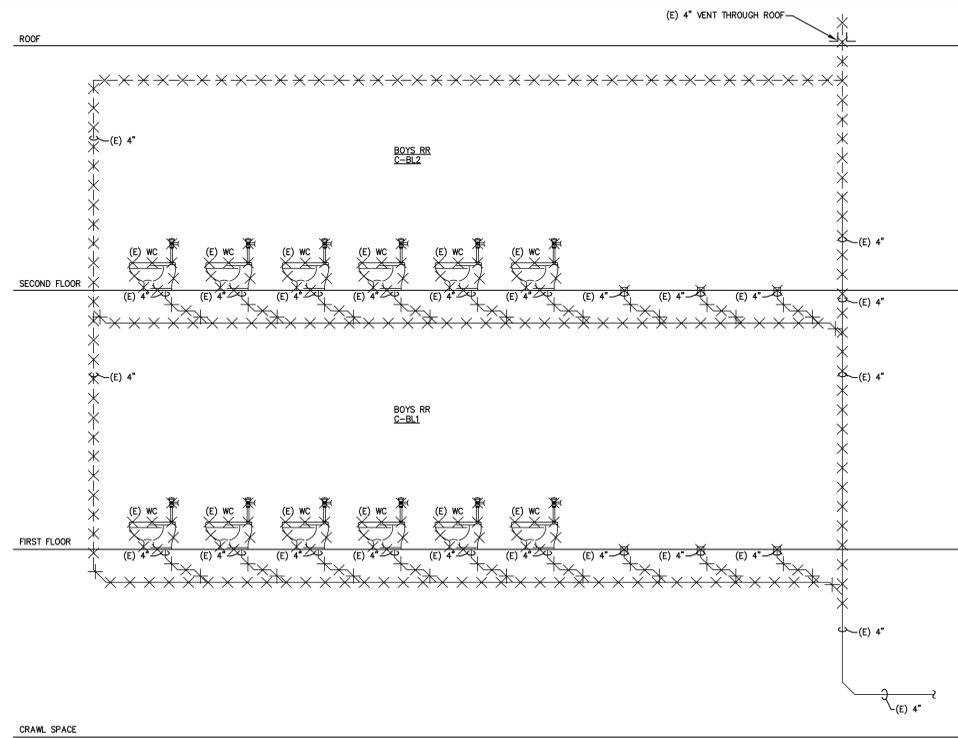
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DRAWING DATE:
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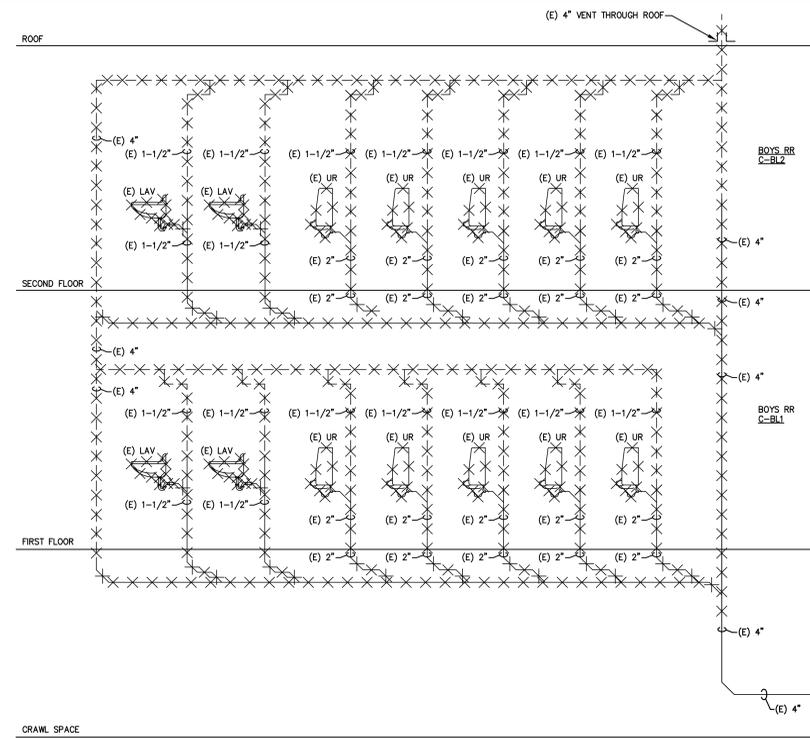
DRAWN BY: ACL

SHEET TITLE: SANITARY RISER
 DIAGRAM -
 PLUMBING
 DEMOLITION

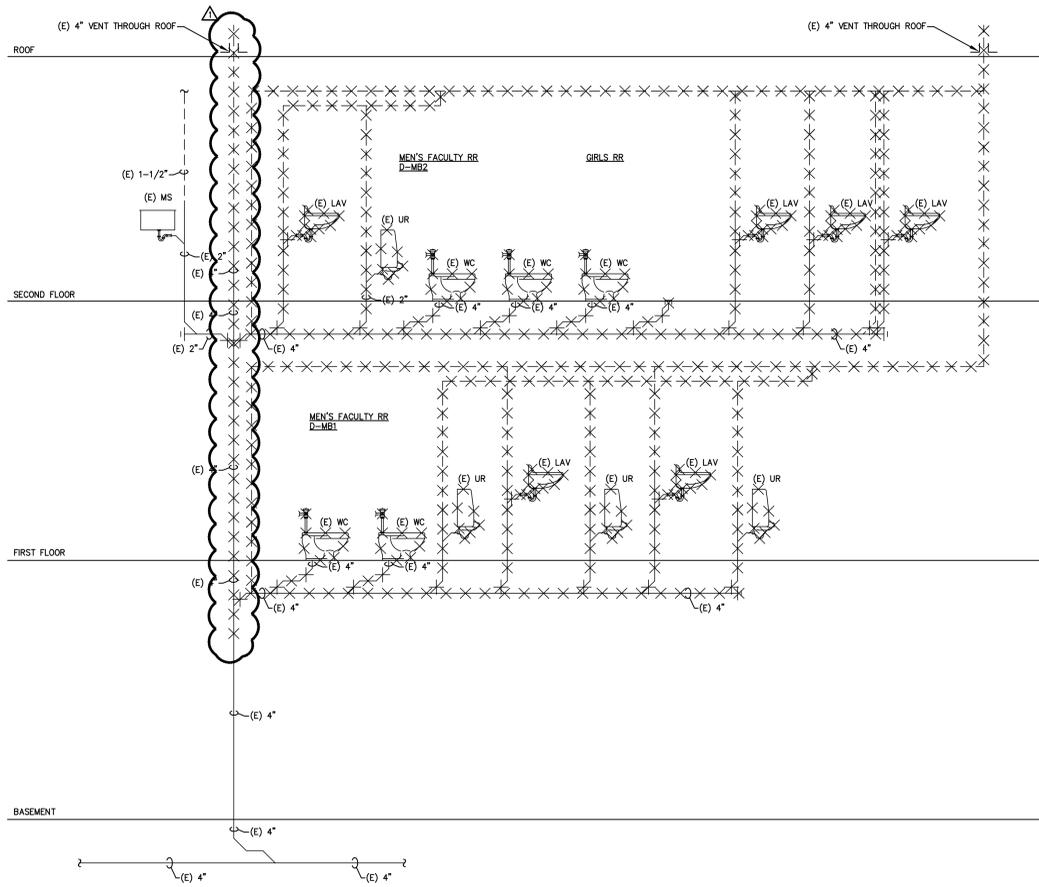
PD201



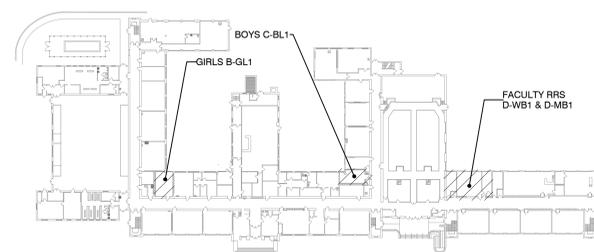
1 SANITARY RISER DIAGRAM - PLUMBING DEMOLITION
 PD202 NOT TO SCALE



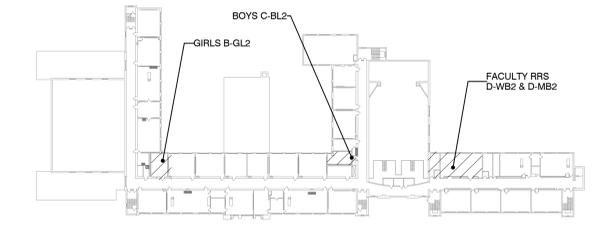
2 SANITARY RISER DIAGRAM - PLUMBING DEMOLITION
 PD202 NOT TO SCALE



3 SANITARY RISER DIAGRAM - PLUMBING DEMOLITION
 PD202 NOT TO SCALE



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REFER TO DEMOLITION NOTES ON DRAWING P301



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PROJECT NO.: **5773A**

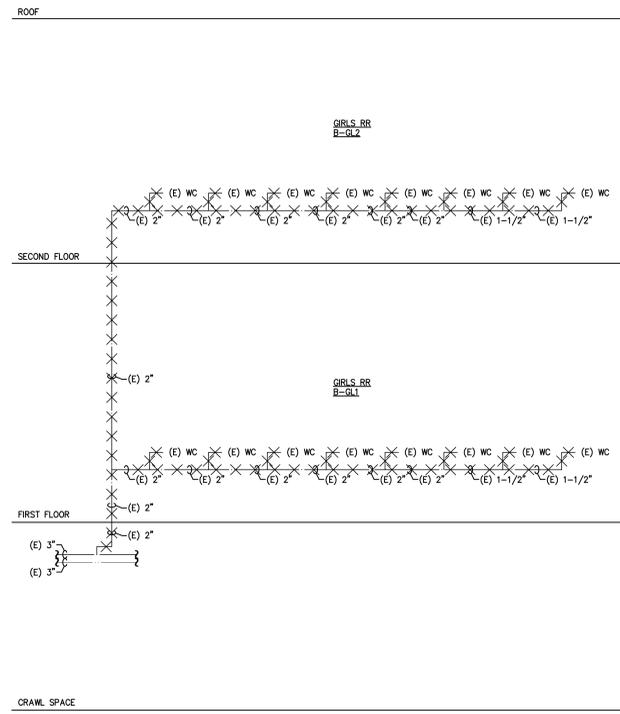
REVISION DATE: **30 JAN 2025**

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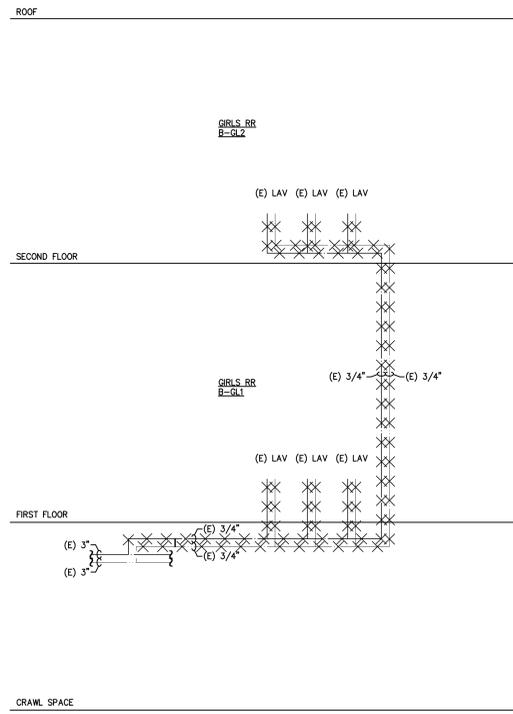
DRAWN BY: **ACL**

SHEET TITLE: **SANITARY RISER
 DIAGRAM -
 PLUMBING
 DEMOLITION**

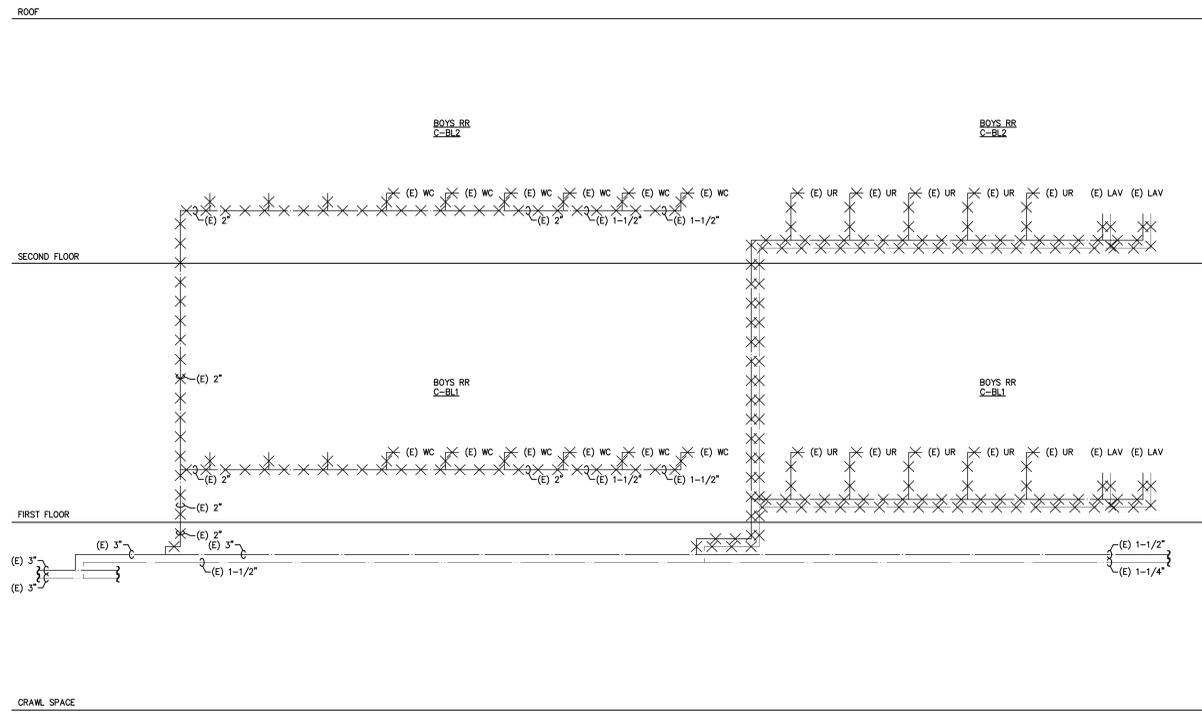
PD202



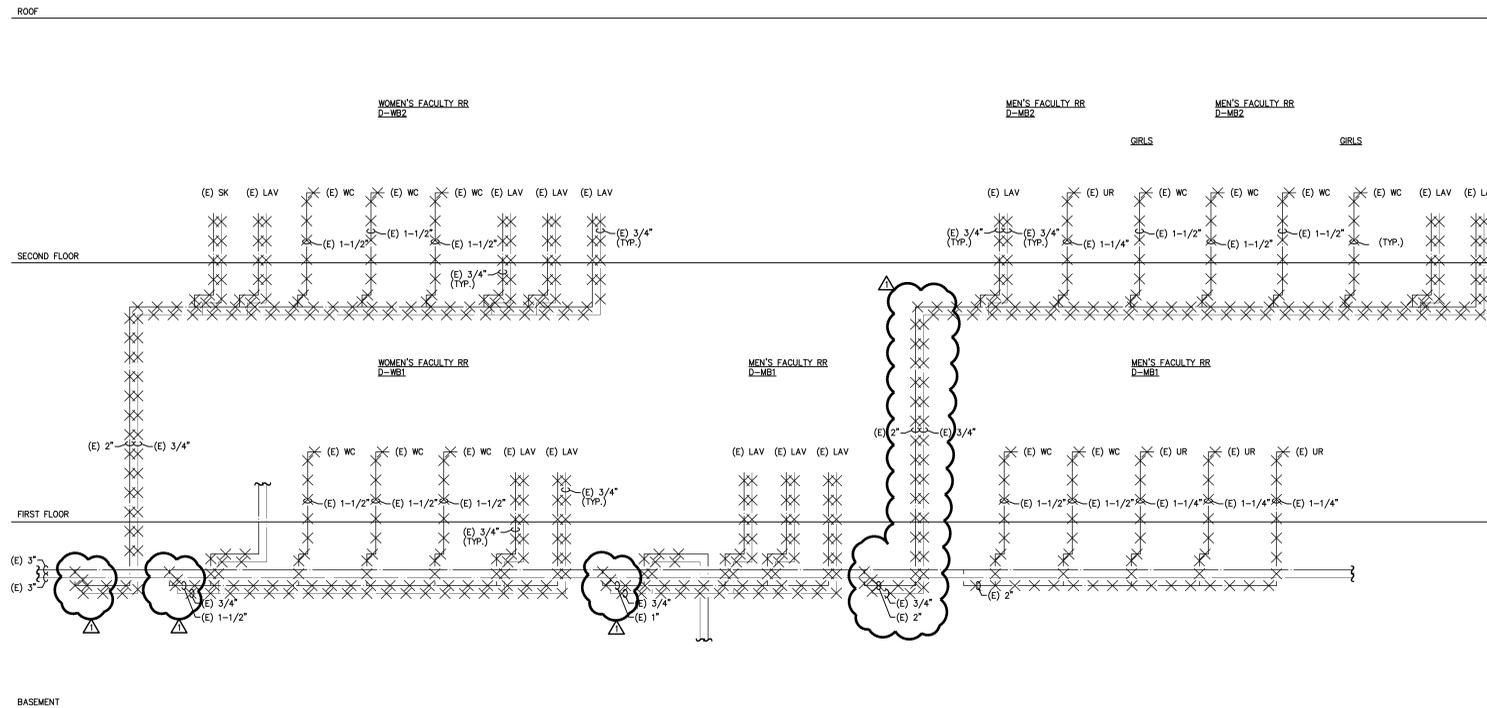
1 DOMESTIC WATER RISER DIAGRAM
PD203 - PLUMBING DEMOLITION
 NOT TO SCALE



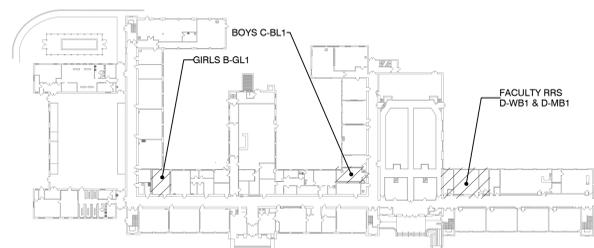
2 DOMESTIC WATER RISER DIAGRAM
PD203 - PLUMBING DEMOLITION
 NOT TO SCALE



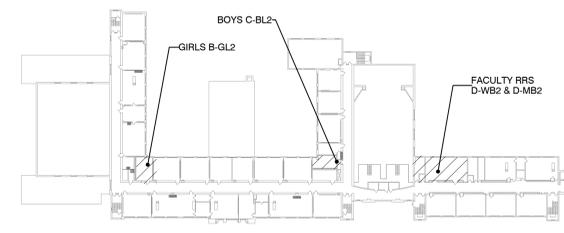
3 DOMESTIC WATER RISER DIAGRAM - PLUMBING DEMOLITION
PD203 NOT TO SCALE



4 DOMESTIC WATER RISER DIAGRAM - PLUMBING DEMOLITION
PD203 NOT TO SCALE



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

REFER TO DEMOLITION NOTES
 ON DRAWING F901



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 SCHOOL**

ADDRESS:
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 BLOCK 145, LOT 2
 40 WHITE HORSE AVENUE
 LINDENWOLD, NJ 08021

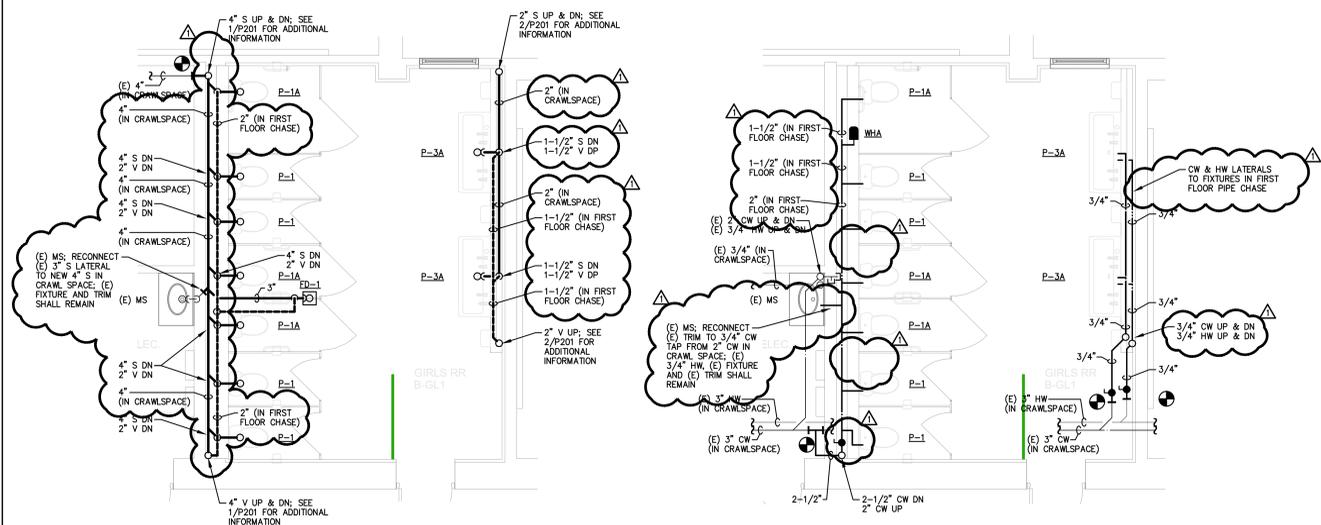
PROJECT NO.: **5773A**

REVISION DATE: **30 JAN 2025**

DRAWING DATE:
 PRINT DATE: **17 January 2025**
 DRAWN BY: **ACL**

SHEET TITLE: **DOMESTIC WATER
 RISER DIAGRAM -
 PLUMBING
 DEMOLITION**

PD203

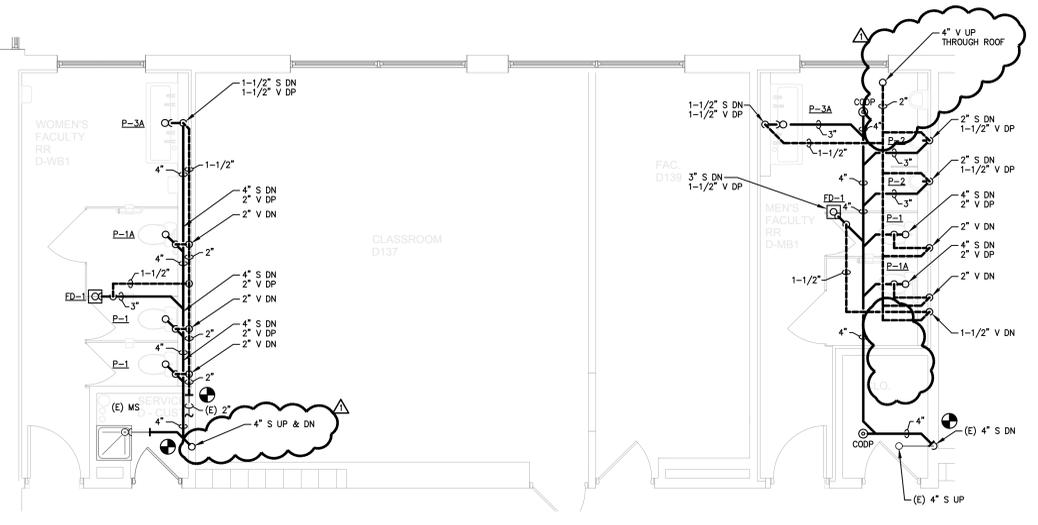


1 FIRST FLOOR GIRLS RR B-GL1 - SANITARY AND VENTING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

2 FIRST FLOOR GIRLS RR B-GL1 - DOMESTIC WATER PIPING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

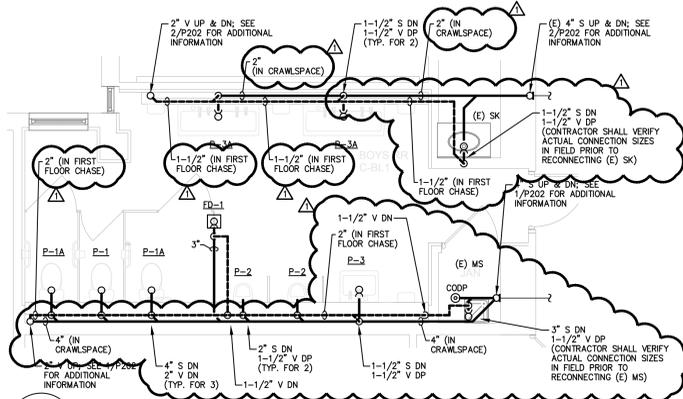


6 FIRST FLOOR FACULTY D-WB1 & D-MB1 - SANITARY AND VENTING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

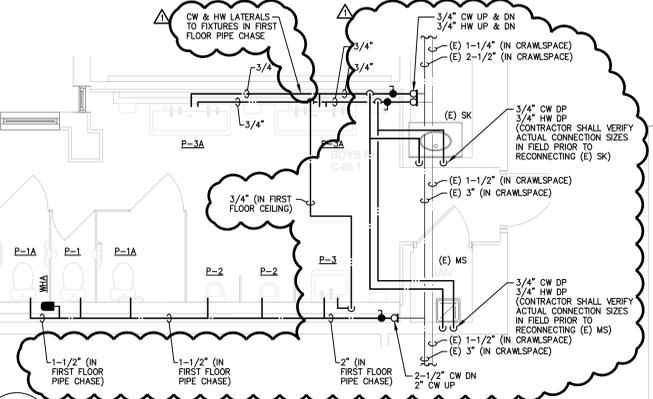
7 FIRST FLOOR FACULTY D-WB1 & D-MB1 - DOMESTIC WATER PIPING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



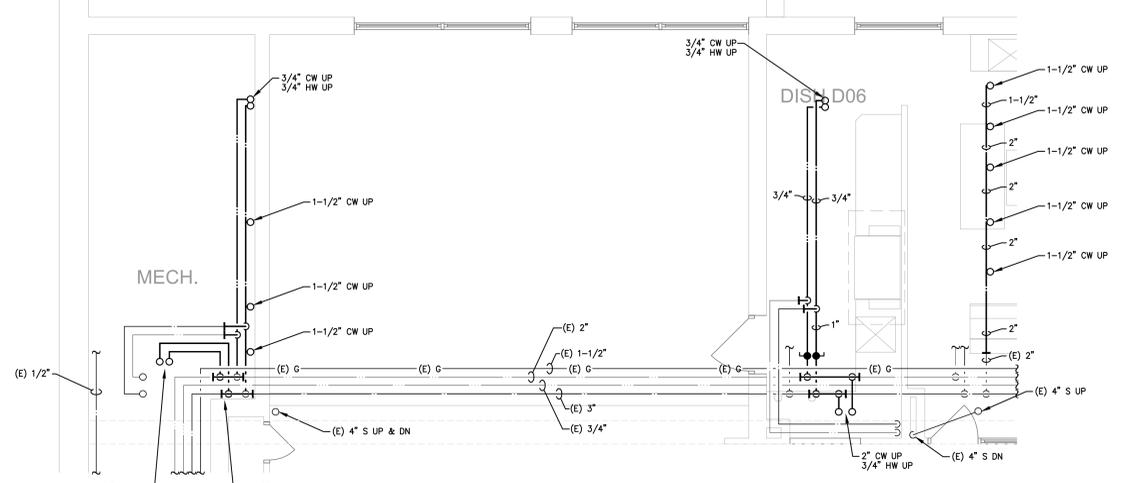
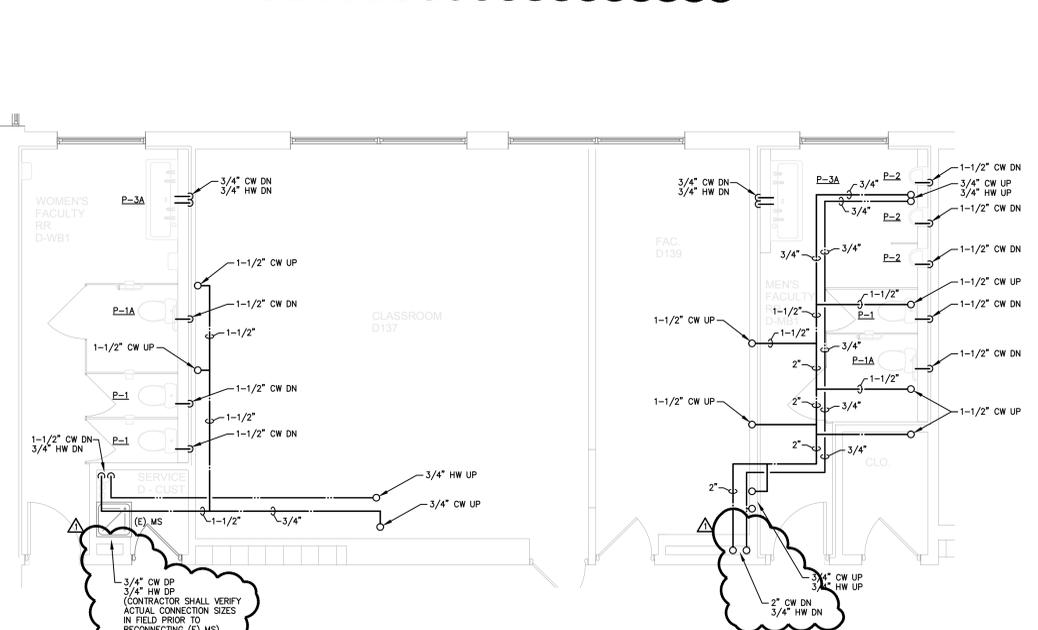
3 FIRST FLOOR BOYS RR C-BL1 - SANITARY AND VENTING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



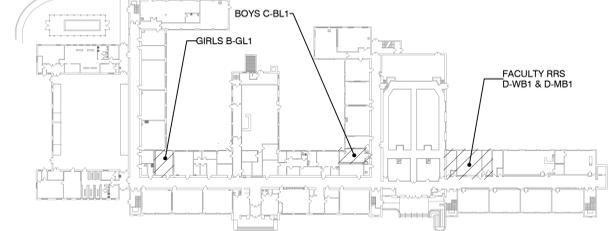
4 FIRST FLOOR BOYS RR C-BL1 - DOMESTIC WATER PIPING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

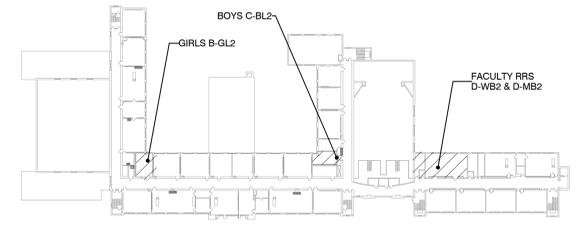


5 BASEMENT PLAN - DOMESTIC WATER PIPING - PLUMBING
P101

SCALE: 1/4" = 1'-0"
NOTES:
1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



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PROJECT NO.: **5773A**

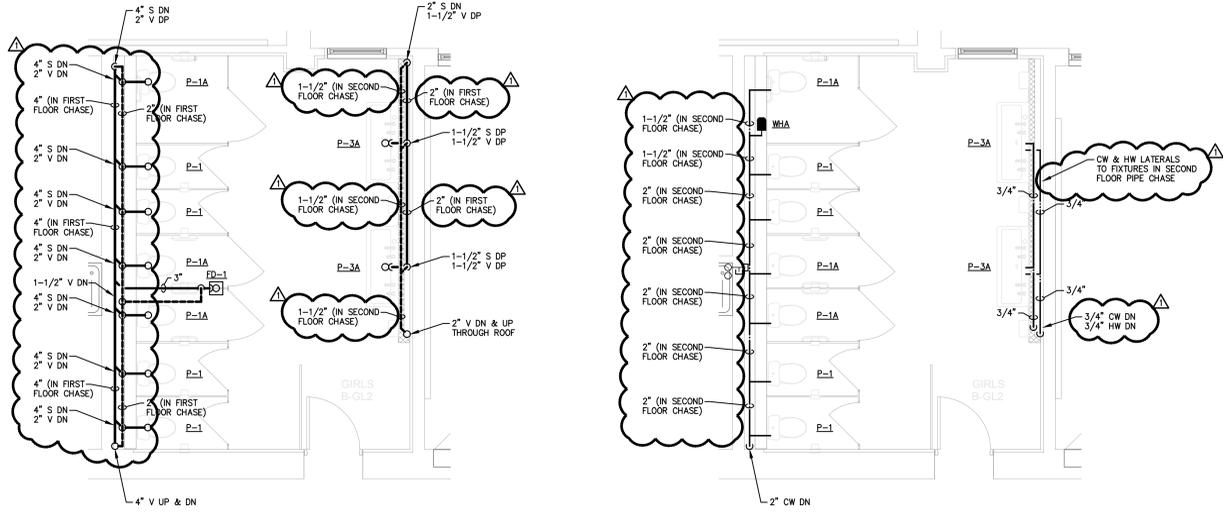
REVISION DATE: **30 JAN 2025**

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SHEET TITLE: **FIRST FLOOR
RESTROOMS -
PLUMBING**

P101

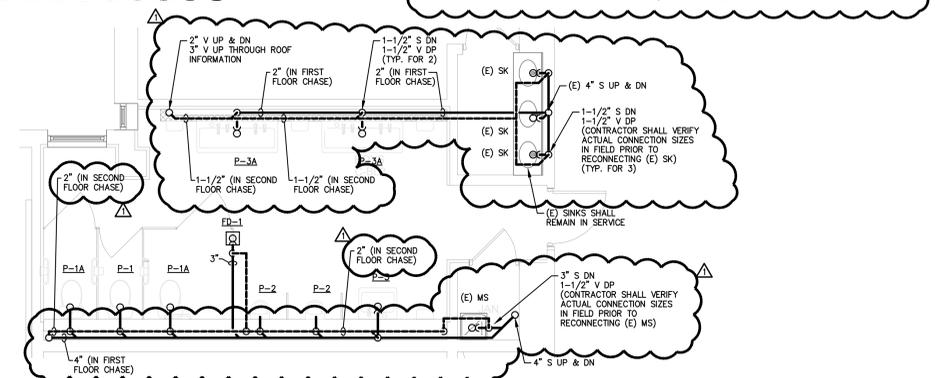


1 SECOND FLOOR GIRLS RESTROOM - SANITARY AND VENTING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

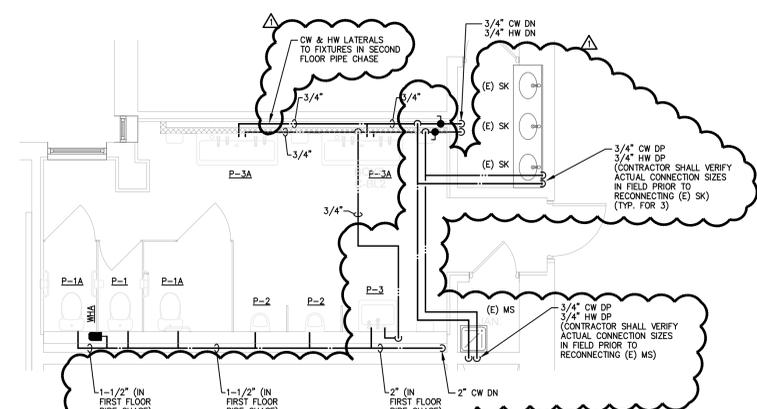
2 SECOND FLOOR GIRLS RESTROOM - DOMESTIC WATER PIPING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



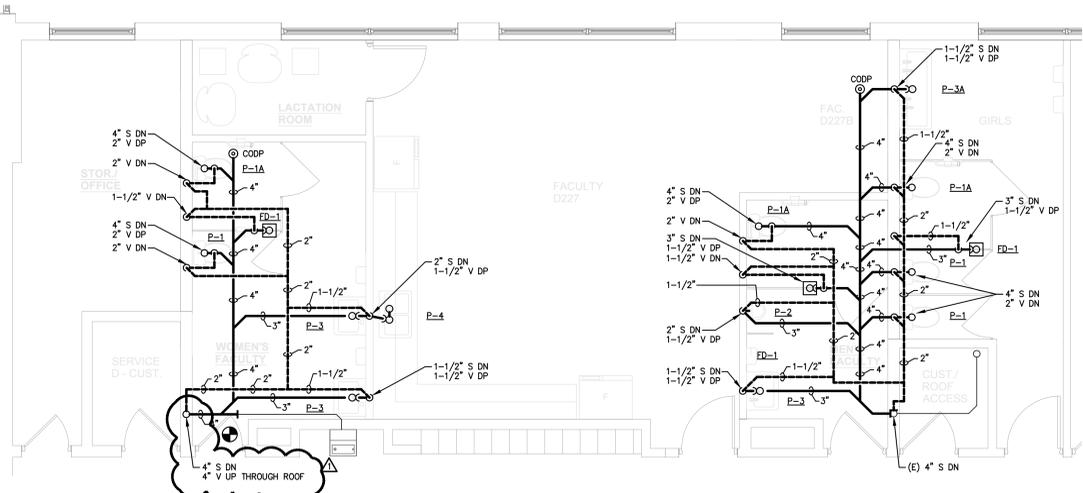
3 SECOND FLOOR BOYS RESTROOM - SANITARY AND VENTING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



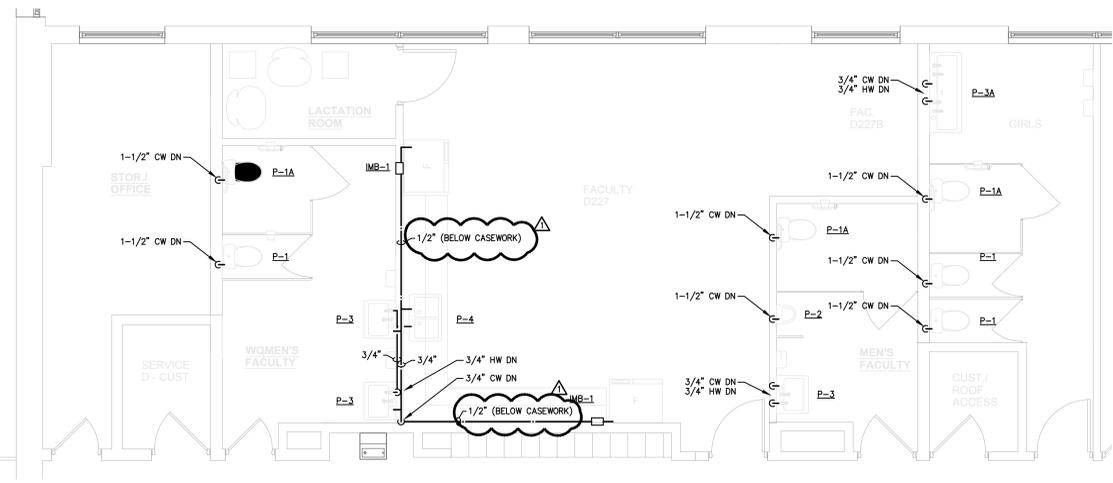
4 SECOND FLOOR BOYS RESTROOM - DOMESTIC WATER PIPING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



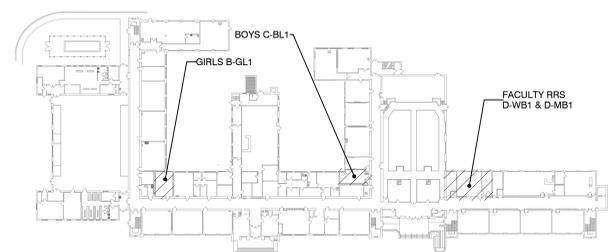
5 SECOND FLOOR FACULTY RESTROOM - SANITARY AND VENTING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

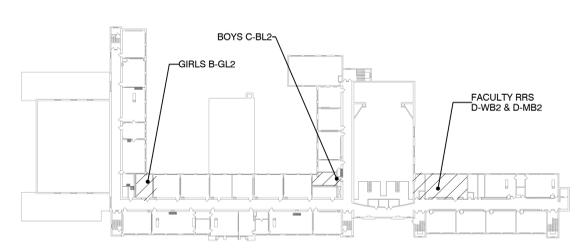


6 SECOND FLOOR FACULTY RESTROOM - DOMESTIC WATER PIPING - PLUMBING
P102
 SCALE 1/4" = 1'-0"

NOTES:
 1. FOR CLARITY NOT ALL PIPE SIZES ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 2. FOR CLARITY NOT ALL VALVE LOCATIONS ARE SHOWN; REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR

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PROJECT NO.: **5773A**

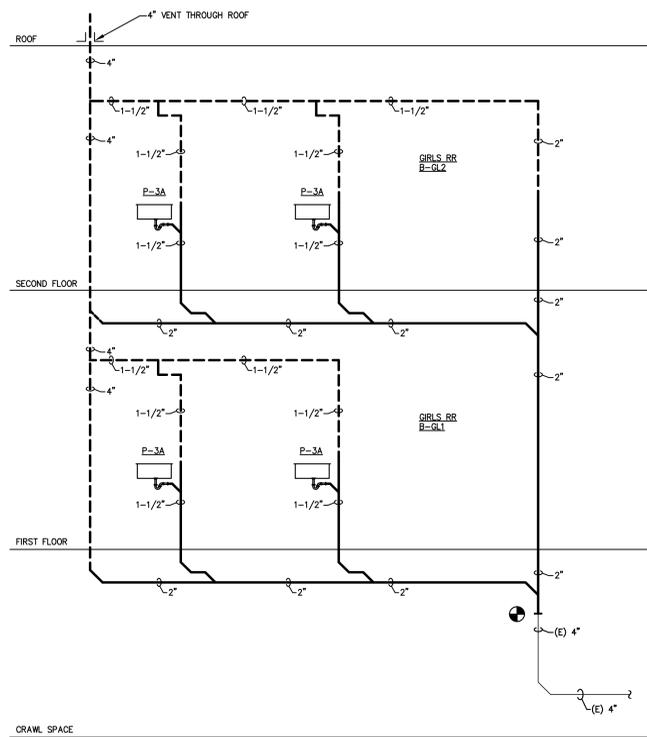
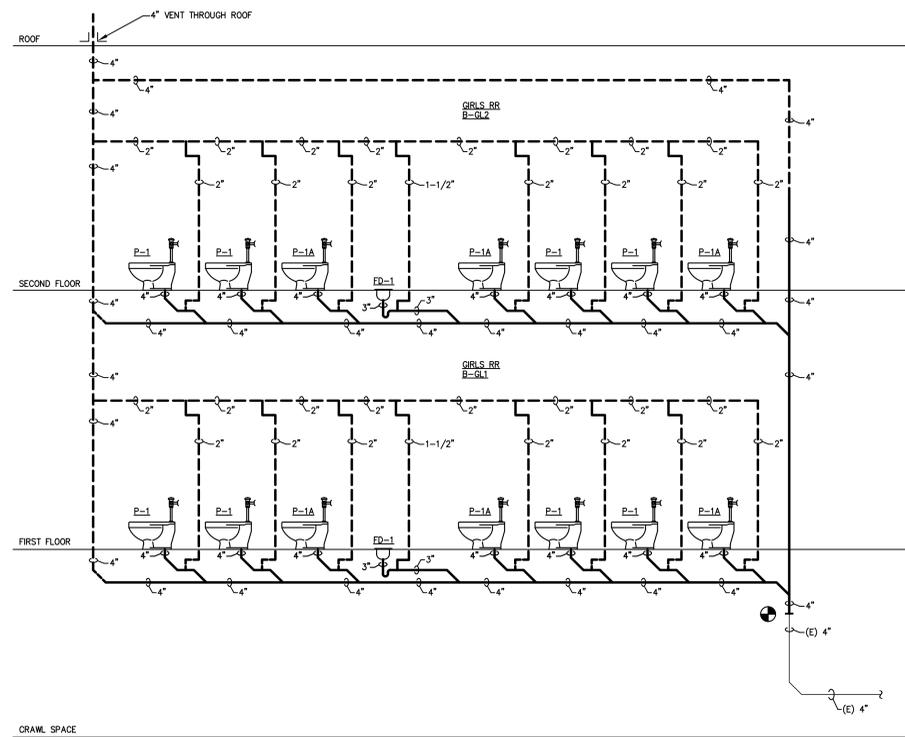
REVISION DATE: **30 JAN 2025**

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DRAWN BY: **ACL**

SHEET TITLE: **FIRST FLOOR
 RESTROOMS -
 PLUMBING**

P102

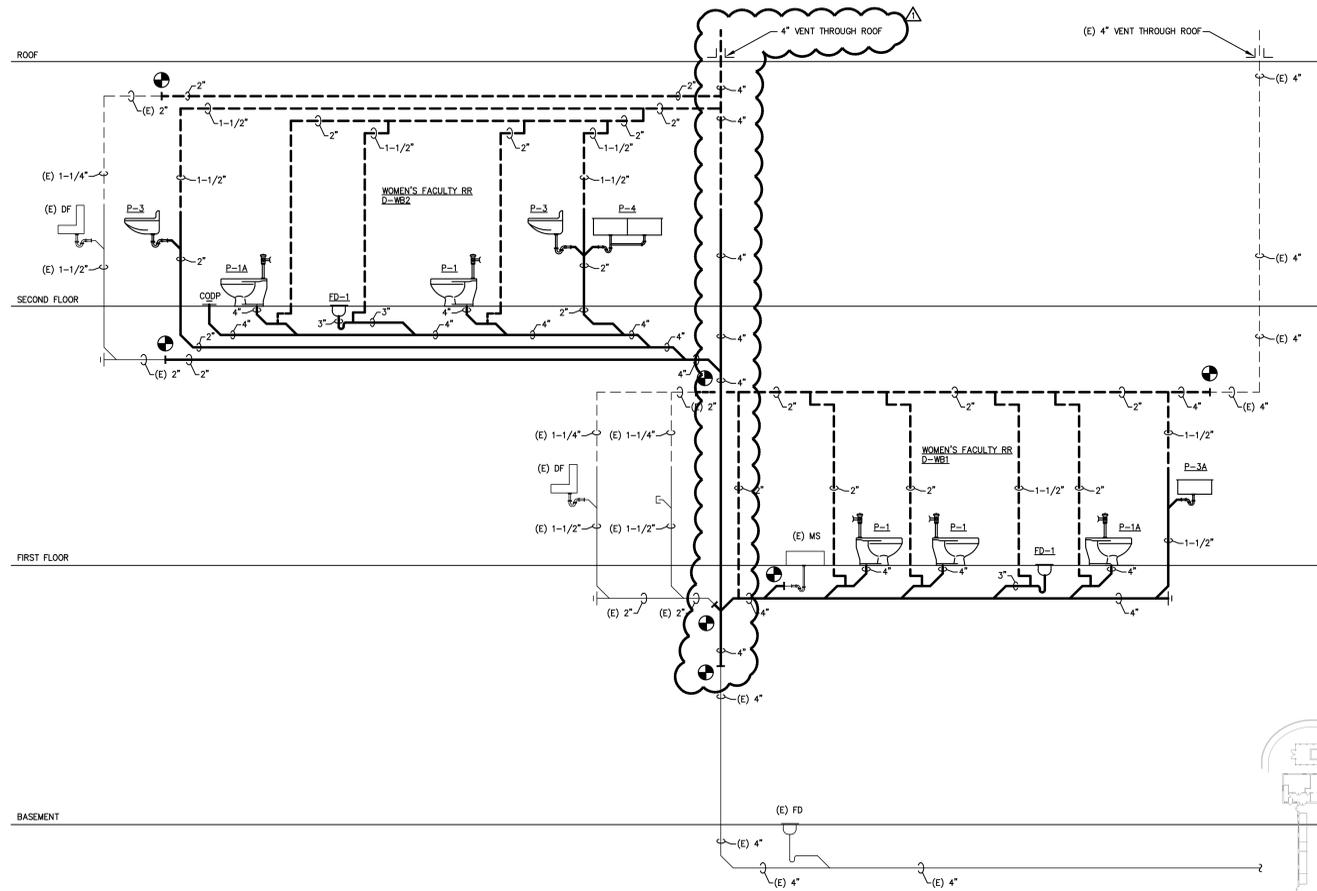


1 SANITARY RISER DIAGRAM - PLUMBING
P201 NOT TO SCALE

- NOTES:
1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.

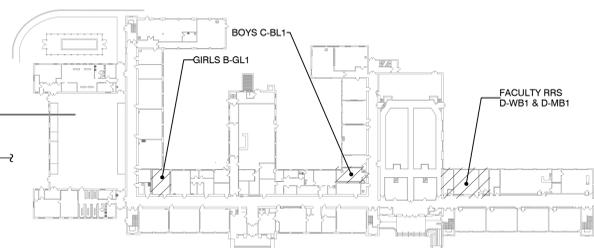
2 SANITARY RISER DIAGRAM - PLUMBING
P201 NOT TO SCALE

- NOTES:
1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.

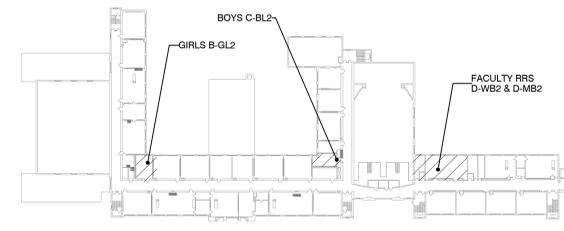


3 SANITARY RISER DIAGRAM - PLUMBING
P201 NOT TO SCALE

- NOTES:
1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



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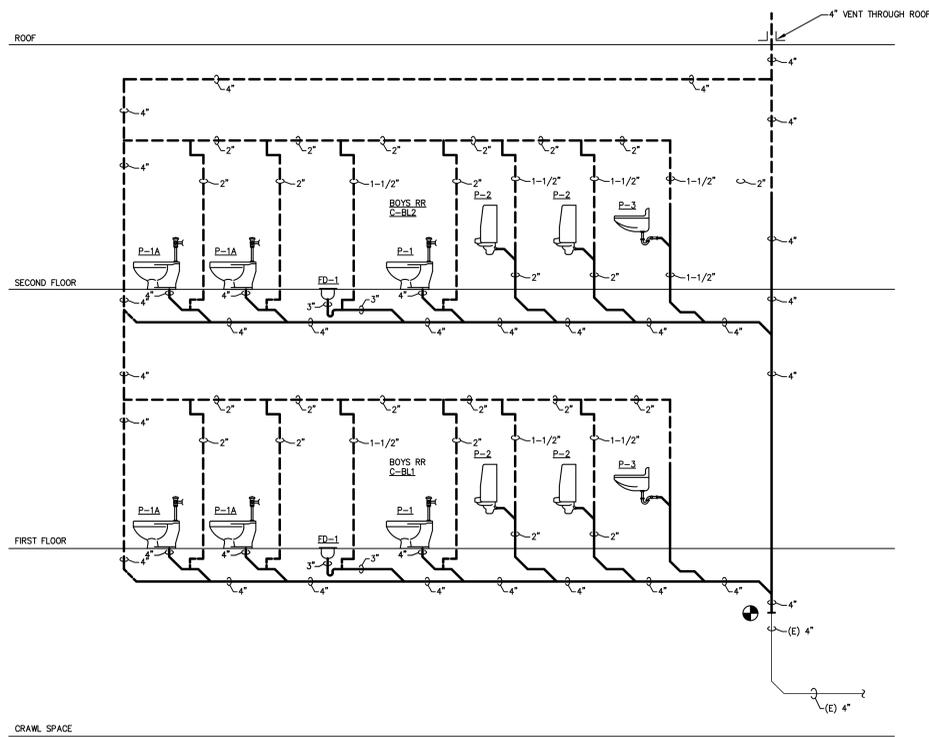
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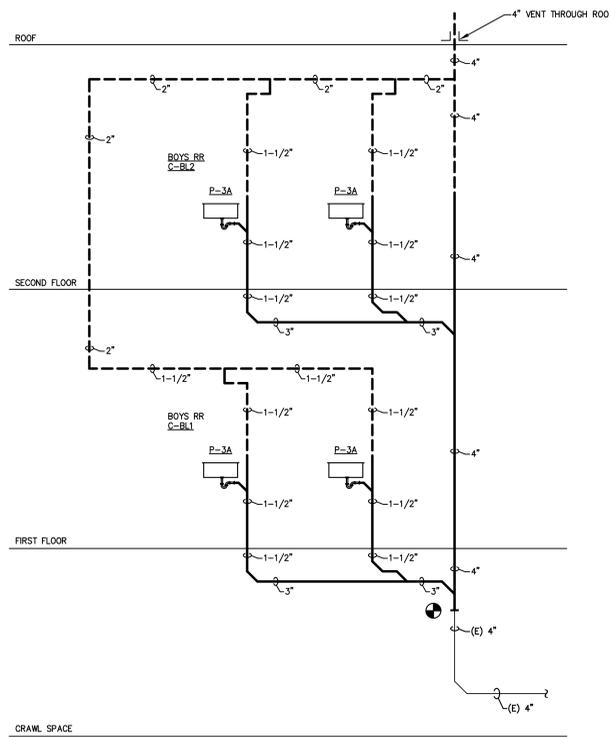
SHEET TITLE: **SANITARY RISER
DIAGRAMS -
PLUMBING**

P201



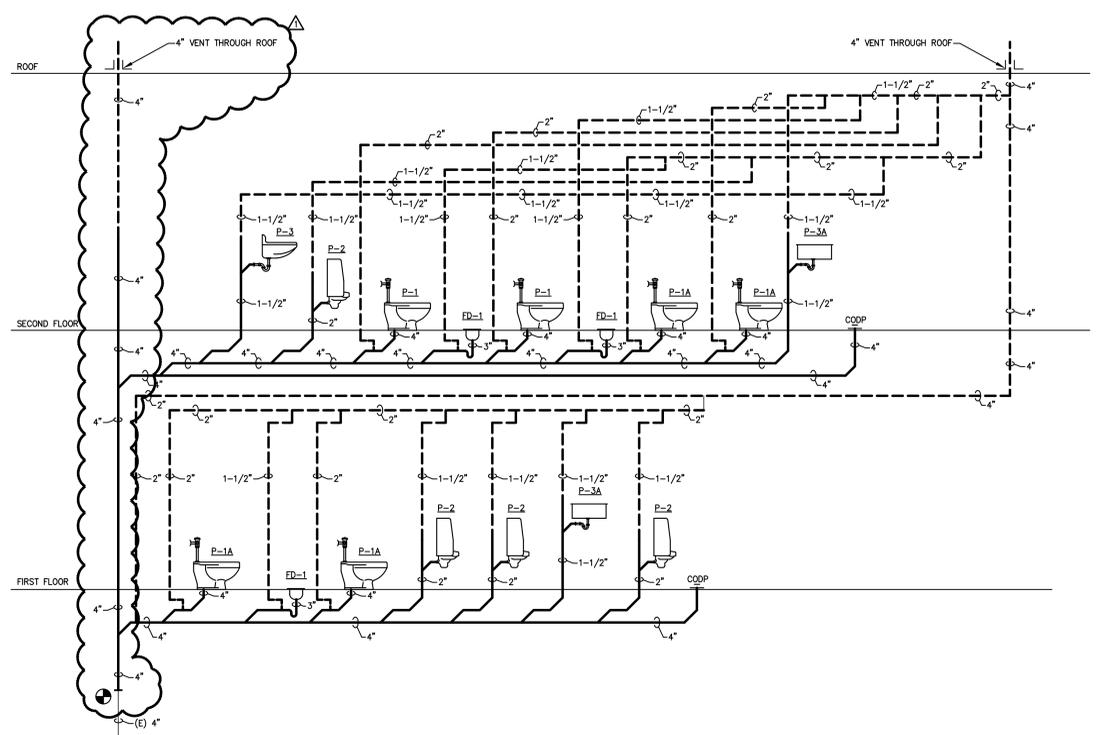
1 SANITARY RISER DIAGRAM – PLUMBING
P202 NOT TO SCALE

NOTES:
 1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.



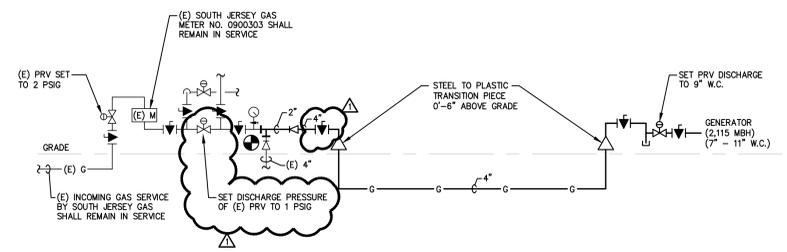
2 SANITARY RISER DIAGRAM – PLUMBING
P202 NOT TO SCALE

NOTES:
 1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.



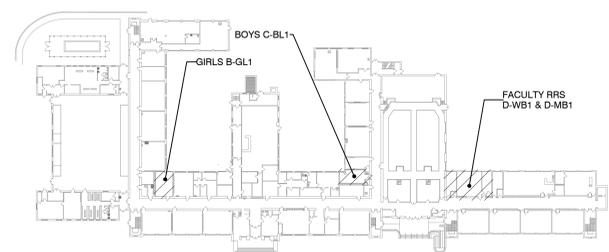
3 SANITARY RISER DIAGRAM – PLUMBING
P202 NOT TO SCALE

NOTES:
 1. COORDINATE INSTALLATION OF NEW VENTS THROUGH ROOF WITH ROOFING CONTRACTOR WORKING UNDER SEPARATE CONTRACT WITH OWNER.

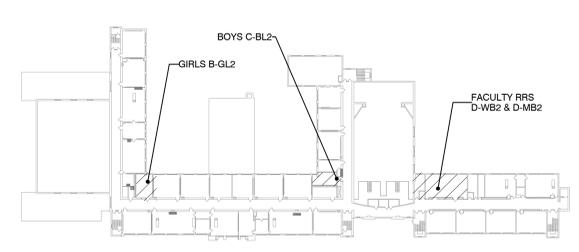


4 NATURAL GAS RISER DIAGRAM – PLUMBING
P202 NOT TO SCALE

NOTES:
 1. TOTAL DEVELOPED LENGTH OF GAS PIPING = 300'-0"
 2. ALL ABOVE GROUND PIPING SHALL BE SIZED PER INTERNATIONAL FUEL GAS CODE (2021) TABLE 402.4(1).
 3. UNDERGROUND GAS PIPING SHALL BE HDPE SIZED PER INTERNATIONAL FUEL GAS CODE (2021) TABLE 402.4(20).
 4. ALL GAS PRIVYS SHALL BE EQUIMETER LOCK-UP TYPE APPROVED BY SOUTH JERSEY GAS. ALL VENTS SHALL BE INSTALLED TO PREVENT WATER INFILTRATION. PROVIDE INSECT SCREEN.
 5. INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INTERNATIONAL FUEL GAS CODE (2021).



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



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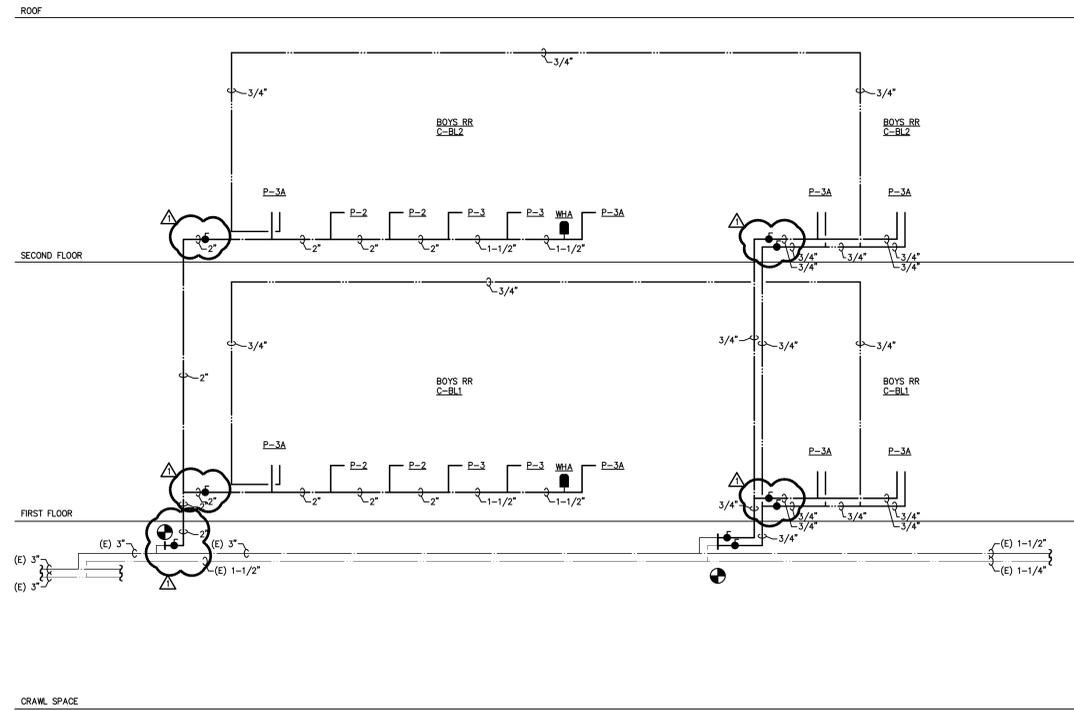
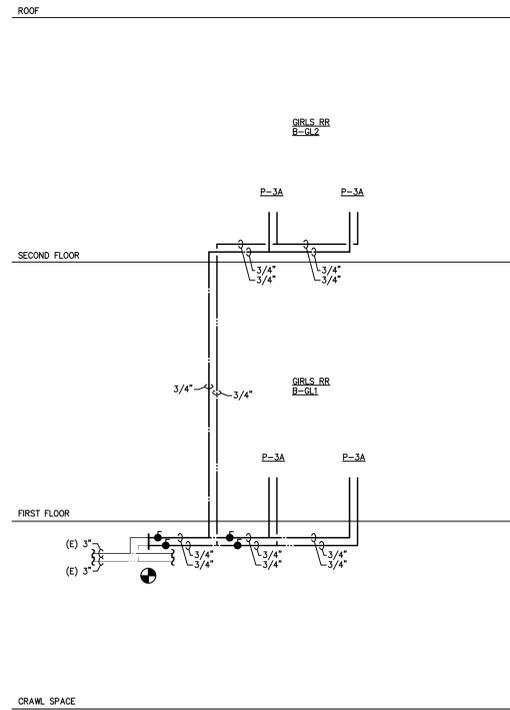
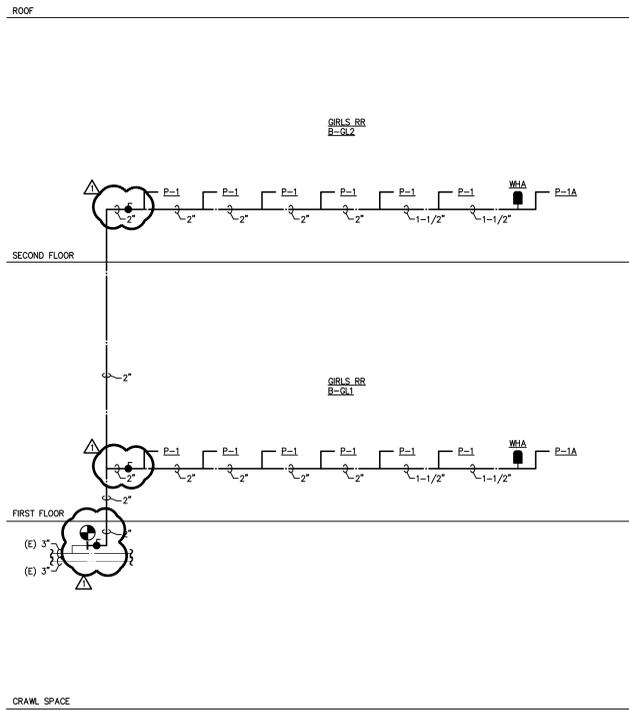
REVISION DATE: **30 JAN 2025**

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SHEET TITLE: **SANITARY RISER
 DIAGRAMS -
 PLUMBING**

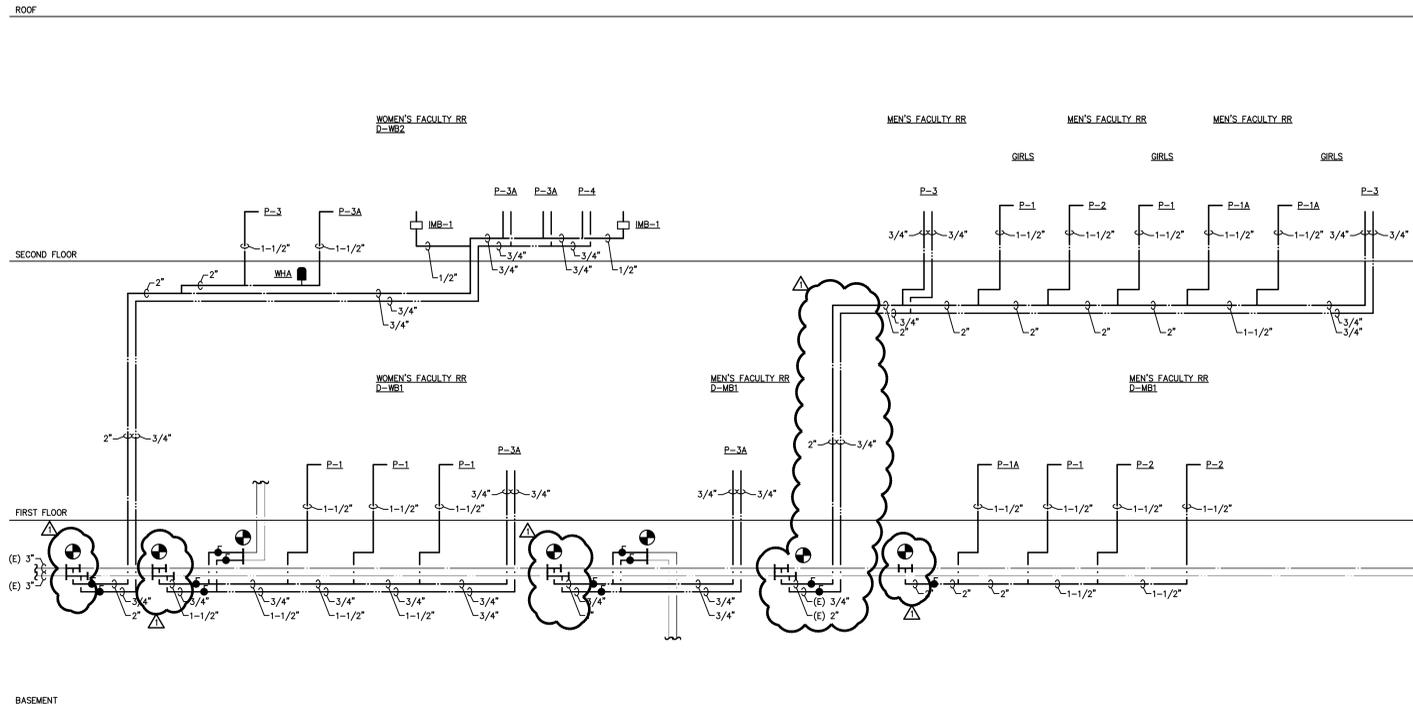
P202



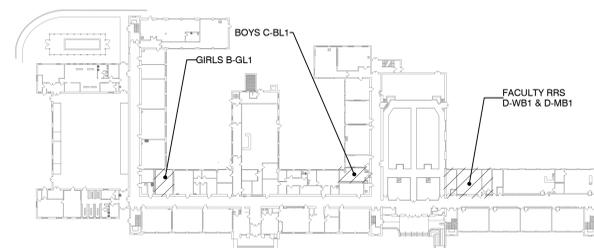
1 DOMESTIC WATER RISER DIAGRAM – PLUMBING
P203 NOT TO SCALE

2 DOMESTIC WATER RISER DIAGRAM – PLUMBING
P203 NOT TO SCALE

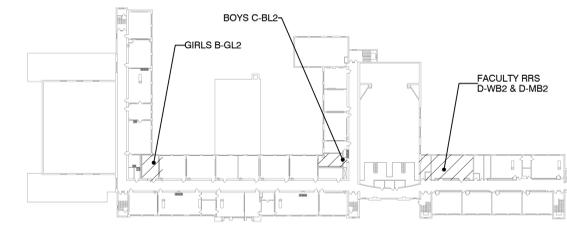
3 DOMESTIC WATER RISER DIAGRAM – PLUMBING
P203 NOT TO SCALE



4 DOMESTIC WATER RISER DIAGRAM – PLUMBING
P203 NOT TO SCALE



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30\"/>

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SHEET TITLE: DOMESTIC WATER RISER DIAGRAMS - PLUMBING

P203

PLUMBING SYMBOL LIST

ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
CW	---	COLD WATER PIPING	BV	⊘	BALL VALVE
HW	---	HOT WATER PIPING	GV	⊘	GATE VALVE
HWR	---	HOT WATER RETURN PIPING	GV	⊘	GLOBE VALVE
(E) CW	---	(E) COLD WATER PIPING	CV	⊘	CHECK VALVE
(E) HW	---	(E) HOT WATER PIPING	PRV	⊘	PRESSURE REDUCING VALVE
(E) HWR	---	(E) HOT WATER RETURN PIPING	BV	⊘	BUTTERFLY VALVE
V	---	VENT	AV	⊘	ANGLE VALVE
(E) V	---	(E) VENT			STRAINER
SAN	---	SOIL, WASTE, OR SANITARY SEWER			BRANCH - TOP CONNECTION
SAN	---	UNDERGROUND/BELOW SLAB SOIL, WASTE, OR SANITARY SEWER			BRANCH - BOTTOM CONNECTION
(E) SAN	---	(E) SOIL, WASTE OR SANITARY SEWER			WATER HAMMER ARRESTOR
	---	REDUCER			NEW CONNECTION TO EXISTING
	---	CAPPED OUTLET			TRAP
	---	VALVED & CAPPED OUTLET			CLEANOUT
	---	BREAK OR CONTINUATION			FLOOR/ROOF DRAIN
	---	PIPING DROP			CLEAN OUT DECK PLATE
	---	PIPING RISE			
	---	VALVE ON VERTICAL			
	---	UNION			
EX	---	EXISTING PIPING TO BE REMOVED			

PLUMBING FLOOR DRAIN SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL	LOCATION	REMARKS
FD-1	GENERAL DRAIN	ZURN INDUSTRIES, INC. ZN-415-Y	TOILET ROOMS	C.I. BODY, SEDIMENT BUCKET, 1" OUTLET SIZE, 6" SQUARE TYPE S POLISHED NICKEL BRONZE STRAINER, PROVIDE TO ELASTOMERIC WATERLESS TRAP GUARD SYSTEM (SEE PLUMBING SPECIALTIES SCHEDULE)

PLUMBING SPECIALTIES SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL	REMARKS
QNT-1	CHEMICAL NEUTRALIZER	JJM BOILER WORKS JM-20	LIMESTONE FILLED ACID NEUTRALIZATION TUBE WITH SUPPORT BRACKETS
DCV	DOUBLE CHECK VALVE ASSEMBLY	WATTS	4" SIZE DOMESTIC WATER DOUBLE CHECK VALVE ASSEMBLY W/FLANGED ENDS & STRAINER
DDCA	DOUBLE CHECK DETECTOR ASSEMBLY	WATTS	6" SIZE FIRE PROTECTION DOUBLE DETECTOR CHECK VALVE ASSEMBLY W/FLANGED ENDS & BYPASS ASSEMBLY W/WATER METER
HB-1	HOSE BIBB	ZURN Z-195	BRONZE BODY, ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING, INTEGRAL BACKFLOW PREVENTOR & 3/4" HOSE CONNECTION
NEM-1	NON-FREEZE WALL HYDRANT	JR SMITH 55090T	BRONZE BODY, ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING, INTEGRAL BACKFLOW PREVENTOR, 3/4" HOSE CONNECTION
IT	WATERLESS TRAP GUARD	PROVENT TRAP GUARD	ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE WHICH OPENS WHEN IN CONTACT WITH LIQUID, COMPLIES WITH ANSI/ASME A112.6.3
TV-1	HOT WATER TEMPERING VALVE	LEONARD 27OLF	CERTIFIED LEAD-FREE POINT-OF-USE HOT WATER TEMPERING VALVE; INSTALL BELOW SINK; SET OUTLET TEMPERATURE TO 105° (F)
WHA	WATER HAMMER ARRESTOR	ZURN Z-1700	STAINLESS STEEL CONSTRUCTION, SIZE 600 & 1" OUTLET

PLUMBING FIXTURE & CONNECTION SCHEDULE

MARK	FIXTURE	MOUNTING	MANUFACTURER	MODEL NO.	TRIM NO.	SUPPORT NO.	TRAP	WASTE	VENT MIN.	CW	HW	TW	POWER	REMARKS
P-1	WATERCLOSET	FLOOR MOUNTED	KOHLER	WELLCOME ULTRA K-96053-SS	SLOAN G2 8111-1.28	N/A	INTEGRAL	4"	2"	1-1/2"	N/A	N/A	BATTERY	VITREOUS CHINA FIXTURE WITH ANTI-MICROBIAL FINISH; INCLUDES K-4686 SEAT SEAT LESS COVER WITH ANTI-MICROBIAL FINISH AND CHECK HINGE
P-1A	WATERCLOSET (ACCESSIBLE)	FLOOR MOUNTED	KOHLER	HIGHCLIFF ULTRA K-96057-SS-0	SLOAN G2 8111-1.28	N/A	INTEGRAL	4"	2"	1-1/2"	N/A	N/A	BATTERY	ADA COMPLIANT VITREOUS CHINA FIXTURE WITH ANTI-MICROBIAL FINISH; PROVIDE K-4666-CA-0 OPEN FRONT SEAT LESS COVER WITH ANTI-MICROBIAL FINISH AND CHECK HINGE
P-2	URINAL	WALL HUNG	KOHLER	BARDON K-4991-ET	SLOAN G2 8186-0.125	ZURN Z1222	INTEGRAL	2"	1-1/2"	1-1/2"	N/A	N/A	BATTERY	VITREOUS CHINA WASHOUT FIXTURE WITH EXTENDED RIM
P-2A	URINAL (ACCESSIBLE)	WALL HUNG	KOHLER	BARDON K-4991-ET	SLOAN G2 8186-0.125	ZURN Z1222	INTEGRAL	2"	1-1/2"	1-1/2"	N/A	N/A	BATTERY	ADA COMPLIANT VITREOUS CHINA WASHOUT FIXTURE WITH EXTENDED RIM
P-3	1 STATION LAVATORY	WALL HUNG	BRADLEY	VERGE LVQD1-WB2-DO	INTEGRAL INFRARED SENSOR FAUCET	BRADLEY (PROVIDED)	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	N/A	PLUG-IN	EVERO QUARTZ CAST FIXTURE WITH SENSOR-OPERATED WASH BAR; PROVIDE CHROME-PLATED P-TRAP & TAILPIECE, BASKET STRAINER, ANGLE STOPS & BRAIDED SUPPLIES
P-3A	2 STATION LAVATORY	WALL HUNG	BRADLEY	VERGE LVQD2-WB2-DO	INTEGRAL INFRARED SENSOR FAUCET	BRADLEY (PROVIDED)	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	N/A	PLUG-IN	EVERO QUARTZ CAST FIXTURE WITH SENSOR-OPERATED WASH BAR; PROVIDE CHROME-PLATED P-TRAP & TAILPIECE, BASKET STRAINER, ANGLE STOPS & BRAIDED SUPPLIES
P-4	STAINLESS STEEL DOUBLE BASIN SINK	COUNTER MOUNTED	ELKAY	LUSTREONE LRAD292250	ELKAY LKB721C	N/A	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	N/A	PLUG-IN	18 GA SS DOUBLE BASIN SINK; PROVIDE CHROME PLATED P-TRAP & TAILPIECE, BASKET STRAINER, ANGLE STOPS, AND BRAIDED STEEL SUPPLIES; PROVIDE OPTIONAL PLUG-IN ADAPTOR WITH INTEGRAL WATER HAMMER ARRESTOR AND 1/4" OUTLET
MB-1	REFRIGERATOR ICE-MAKER OUTLET BOX	WALL MOUNTED	SOUX CHIEF	696LVCO	N/A	N/A	N/A	N/A	N/A	1/2"	N/A	N/A	N/A	

NOTE:

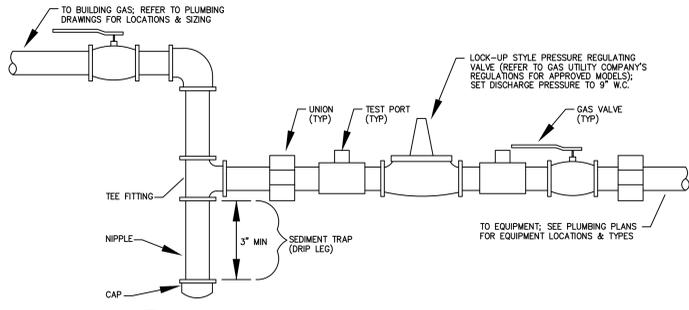
- PLUMBING CONTRACTOR SHALL COORDINATE SPECIFIED COUNTER SINKS WITH MILLWORK CONSTRUCTION DRAWINGS PRIOR TO PURCHASE OF ANY PLUMBING FIXTURES, AND SUBMIT MILLWORK DRAWINGS WITH FIXTURE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- MOUNTING HEIGHTS AND SPACING FOR ALL FIXTURES SHALL BE AS INDICATED AND DIRECTED BY ARCHITECT; REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL EXPOSED TRAP ASSEMBLIES AND WATER SUPPLIES SHALL BE INSULATED.
- ALL MANUFACTURERS AND MODELS LISTED ARE BASIS OF DESIGN; SUBSTITUTION OF APPROVED EQUALS SHALL BE PERMITTED.

PLUMBING ABBREVIATIONS

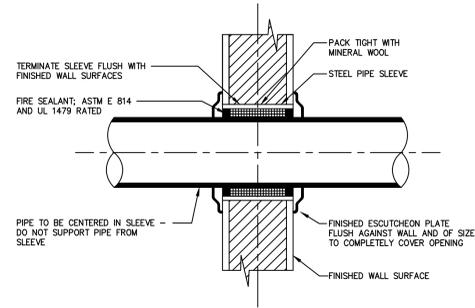
(A)	ABANDONED	GPF	GALLONS PER FLUSH
AFF	ABOVE FINISHED FLOOR	GPH	GALLONS PER HOUR
AP	ACCESS PANEL	GPM	GALLONS PER MINUTE
BFP	BACKFLOW PREVENTOR	HW	HOT WATER SUPPLY
CFH	CUBIC FEET PER HOUR	HWR	HOT WATER RETURN
CIP	CAST IRON PIPE	I.E.	INVERT ELEVATION
CO	CLEAN OUT	INV	INVERT
COOP	CLEAN OUT DECK PLATE	LDR	LEADER
CV	CHECK VALVE	LV	LAB SINK
CW	COLD WATER	NC	NORMALLY CLOSED
DCV	DOUBLE CHECK VALVE	NO	NORMALLY OPEN
DI	DEIONIZED WATER	OD	OVERFLOW DRAIN
DF	WATER COOLER WITH BOTTLE FILLER	RD	ROOF DRAIN
DFU	DRAINAGE FIXTURE UNITS	S	SANITARY
DN	DOWN	SAN.	SANITARY
DP	DROP	ST	STORM
DWG	DRAWING	TYP.	TYPICAL
(E)	EXISTING	V	VENT
(F)	FAHRENHEIT	VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN	'	DEGREES
G	NATURAL GAS	ΔT	TEMPERATURE CHANGE

DEMOLITION NOTES

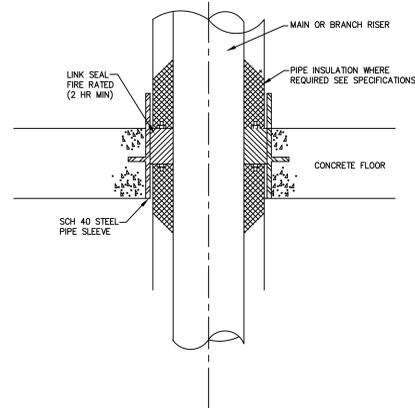
- REMOVE EXISTING FIXTURES AND PLUMBING ACCESSORIES AS INDICATED. CLEAN REUSABLE FIXTURES AND RETURN TO OWNER.
- INFORMATION CONCERNING EXISTING SYSTEMS OR EQUIPMENT HAS BEEN TAKEN FROM EXISTING DRAWINGS AND SITE SURVEYS.
- THE CONTRACTOR SHALL VERIFY ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BID.
- THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL ASSOCIATED DEMOLITION WORK REQUIRED FOR PLUMBING WORK WHETHER SHOWN ON THESE DRAWINGS OR NOT.
- CONTRACTOR SHALL TEMPORARILY DISCONNECT AND REMOVE EXISTING WORK TO REMAIN AS REQUIRED TO FACILITATE PLUMBING WORK.
- CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING, NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT EXPRESS PERMISSION OF OWNER. SUCH INTERRUPTIONS SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT SUCH TIMES AS ARE DESIGNATED BY OWNER.
- CONTRACTOR SHALL PROVIDE FREEZE KITS AND NEW ISOLATION VALVES AS REQUIRED TO FACILITATE REPLACEMENT OF SHUT OFF AND ISOLATION VALVES THAT FAIL TO HOLD.
- CONTRACTOR SHALL TEMPORARILY PIPE CAPS AS REQUIRED TO FACILITATE PIPING REPLACEMENT.
- DEMOLITION OF EXISTING FIXTURES SHALL INCLUDE TRIM AND CARRIERS.
- RESUPPORT EXISTING PIPING WORK REMAINING IN SERVICE AS REQUIRED TO FACILITATE DEMOLITION OF EXISTING CEILING WHETHER SHOWN OR NOT.



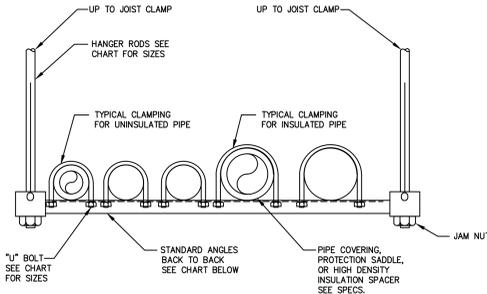
1 TYPICAL GAS EQUIPMENT CONNECTION
P301 NOT TO SCALE



2 PIPE SLEEVE THROUGH INTERIOR WALL
P301 NOT TO SCALE

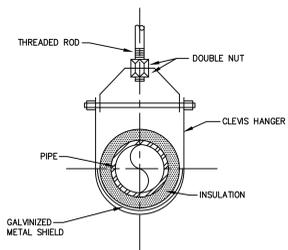


3 PIPE SLEEVE THROUGH FLOOR SLAB
P301 NOT TO SCALE



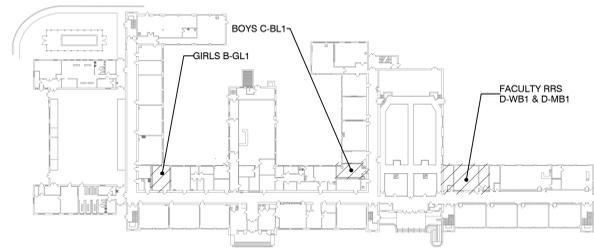
ANGLE SIZING FOR SPANS UP TO 10' (LOAD EQUALLY DISTRIBUTED)			PIPE SIZE	
LOAD ON TRAPEZE LB.	ANGLE SIZE BACK TO BACK	HANGER ROD SIZE	PIPE SIZE	"U" BOLT SIZE
0 - 500	1-1/2" x 1-1/2" x 1/4"	3/8"	UP TO 1"	1/4"
600 - 1200	2" x 2" x 1/4"	1/2"	1-1/4" TO 4"	3/8"
1300 - 2000	2-1/2" x 2-1/2" x 1/4"	5/8"	6" TO 10"	5/8"
			12"	3/4"

4 TRAPEZE HANGER DETAIL
P301 NOT TO SCALE

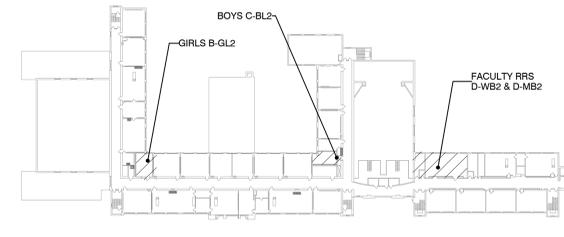


5 CLEVIS HANGER DETAIL
P301 NOT TO SCALE

PIPE DIA.	SHIELD		ROD DIA.	MAX. PIPE SUPPORT SPAN		
	LENGTH	THICKNESS		STEEL	COPPER	CAST IRON
1/2"	12"	.048"	3/8"	8'-0"	6'-0"	-
3/4"	12"	.048"	3/8"	8'-0"	6'-0"	-
1"	12"	.048"	3/8"	8'-0"	6'-0"	-
1-1/4"	12"	.048"	3/8"	8'-0"	6'-0"	-
1-1/2"	12"	.048"	1/2"	10'-0"	8'-0"	5'-0"
2"	12"	.048"	1/2"	10'-0"	8'-0"	5'-0"
2-1/2"	12"	.048"	1/2"	10'-0"	8'-0"	-
3"	12"	.048"	1/2"	12'-0"	10'-0"	5'-0"
4"	12"	.060"	5/8"	12'-0"	10'-0"	5'-0"
5"	18"	.060"	5/8"	12'-0"	10'-0"	5'-0"
6"	18"	.060"	3/4"	12'-0"	10'-0"	5'-0"
8"	24"	.075"	3/4"	12'-0"	-	5'-0"
10"	24"	.075"	3/4"	12'-0"	-	5'-0"
12"	24"	.075"	1"	12'-0"	-	5'-0"



KEY PLAN 1ST FLOOR



KEY PLAN 2ND FLOOR



THIS DRAWING FORMATTED TO BE PRINTED FULL SIZE AT 30\"/>

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21A00912100

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PROJECT NO.: **5773A**

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SCHEDULES,
ABBREVIATIONS &
DETAILS - PLUMBING**

P301