

ADDENDUM NO. 1

to

CONTRACT DOCUMENTS

for

ADDITIONS AND RENOVATIONS

to the

PRINCETON COMMUNITY PARK ELEMENTARY SCHOOL

located at 372 Witherspoon St, Princeton, NJ 08542

for

PRINCETON PUBLIC SCHOOLS

PRINCETON, MERCER COUNTY, NEW JERSEY

Issued: January 16, 2026

FVHD PROJECT NO. 5516C

FRAYTAK VEISZ HOPKINS DUTHIE, P.C.

Architects-Planners

1515 Lower Ferry Road, Trenton, New Jersey 08618

William D. Hopkins III, AIA, LEED AP. No. 21AI01706000

EDWARDS ENGINEERING GROUP / L2A

Civil Consulting Engineers

69 West End Avenue, Somerville, NJ 08876

Beth Kenderdine, P.E., No. GE45532

HARRISON - HAMNETT, PC

Consulting Structural Engineers

40 Knowles St., Pennington, NJ 08534

Donald M. Hamnett, P.E., No. 17976

FRENCH & PARRELLO ASSOCIATES

Consulting Engineers

1800 Route 34, Suite 101, Wall, New Jersey 07719

Amin H. Gomaa, P.E., No. 24GE04842100

INTENT

This Document supersedes all conflicting and contrary information in said Contract Documents. Said documents are hereby amended in certain particulars as described herein after. Unless specifically noted or specified hereinafter all work shall conform to the applicable provisions of the Contract Documents. Bidders shall acknowledge receiving this document on Bid Proposal Form.

This Addendum includes ten (4) pages and the following:

1. Pre-Bid Meeting Sign-in Sheet (2-pages)
2. Revised Specification Section(s)
 - a. 08700 – Door Hardware (40 pages)
 - b. 08950 – Insulated Translucent Fiberglass Sandwich Panel Wall System (6-pages)
3. Revised Drawing(s)
 - a. Architectural -A002A, A103, A104, A201, A601
 - b. Mechanical - M1.0, M6.1

REQUESTS FOR INFORMATION (RFI'S)

1. Question: The door, tag # 120-2, is calling out hardware EXD-EXT-1F, but that set isn't in the spec, and the door tag number isn't under any other HW set. Please advise.

Response: Please see revised specifications 08700 Door Hardware.

2. Question: FRP Doors Numbered: 120-2 and C1-1 do not appear on the Hardware Sets in the spec (2:08700 17-21). Please advise.

Response: Please see revised specifications 08700 Door Hardware.

3. Question: Frame W7 on A601 is listed under "Window Types" but isn't depicted in a similar fashion to the other window types. Is this correct in being labeled a window as opposed to a storefront?

Response: W7 is a window type, refer to revised A601 attached to this Addendum.

4. Question: Regarding spec 10650 Operable Partition - Paragraph 2.7 Selected Options "Worksurfaces as indicated on drawings" (markerboard and tackboard) – Elevation drawing shows panels labeled as "EB" or "DMB". Assuming "DMB" is dry marker board; is "EB" intended to be "Tack Board"?

Response: "EB" is "exhibition board" which is the same as "tack board".

5. Question: "Pocket doors" – Specifications include pocket doors, pocket doors are NOT shown on drawings. Please confirm if they are to be included for all units

Response: Pocket doors are required at the recesses where the folding partitions are stacked when not deployed. See revised A103 attached to this Addendum.

6. Question: Will this project be subject to PLA, I did not see any information pertaining on the bid package. Please advise.

Response: There is no PLA on this project.

7. Question: Please provide the contact info for the existing Fire Alarm, Security & BMS Vendors.

Response: For Fire Alarm and Security, refer to Drawing E1.0, Electrical General Notes #83, 84 and 85 for Vendor Information. For BMS vendor, refer to revised drawing M-1.0, Mechanical General Note #30, attached to this Addendum.

REFER TO DRAWINGS

The following Drawing and Sketches are attached to this Addendum:

<u>DRAWING NO.</u>	<u>TITLE</u>
A002A	Site Access and Staging Plan
A103	First & Second Floor Plans – Work Area ‘AC’, & ‘C’
A104	First & Second Floor Plans – Work Area ‘AA’, ‘AB’ & ‘B’
A201	Exterior Elevations
A601	Door & Window Schedules, Types, Notes & Details
M1.0	Mechanical Symbols, Notes & Abbreviations
M6.1	Mechanical Roof New Work Plan – Block B

The following Drawings to be revised or corrected as follows:

<u>DRAWING NO.</u>	<u>CHANGES AND CORRECTIONS</u>
A002A, A301, A104, A201, A601	Delete the referenced drawing in its entirety and substitute with the enclosed revised drawing.
M1.0, M6.1	Delete the referenced drawing in its entirety and substitute with the enclosed revised drawing.

REFER TO SPECIFICATIONS

TABLE OF CONTENTS

Under Part - 2 General Construction Work, delete the following section in its entirety:

11135 LCD Interactive Laser Display Projector, 3 pages.

PART 1 - SECTION 01400 – MATERIAL TESTING / QUALITY CONTROL SERVICES

<u>Page</u>	<u>Paragraph</u>
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01400-1	1.2.A	Revise sub-paragraph 1 to read as follows:
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1. **International Construction Code (ICC) requires Special Inspections - Material Testing shall be engaged and performed through Owner's Testing Inspection Agency which will be paid for by the Owner.**

PART 2 – SECTION 08950 – INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL WALL SYSTEM

Delete Section 08950 in its entirety and substitute with the revised Specification Section 08950, attached to this Addendum

PART 2 – SECTION 08700 – DOOR HARDWARE

Delete Section 08700 in its entirety and substitute with the revised Specification Section 08700, attached to this Addendum.

PART 2 – SECTION 11135 – LCD INTERACTIVE LASER DISPLAY PROJECTOR

Delete Section 11135 in its entirety.

PART 6 – SECTION 13852 – DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

<u>Page</u>	<u>Paragraph</u>
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13852-5	1.10	Delete sub-paragraph B in its entirety and substitute the following:
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- B. Existing system shall be existing to remain. Provide expansion modules and panels as required to accommodate the new work.

Delete sub-paragraph D in its entirety and substitute the following:

- D. Equipment Removal: After acceptance of new fire-alarm devices, remove existing disconnected fire-alarm devices and wiring.

END OF ADDENDUM NO. 1

William D. Hopkins III, AIA, LEED AP, NCARB
 George R. Duthie, AIA, PP
 Jason J. Dubowitch, AIA, NCARB
 Stephen W. Schreyer Jr., AIA, NCARB, LEED AP BD+C



PROJECT NAME: Additions and Renovations to Princeton
Middle School for Princeton Public Schools
Community Park ES

DATE: Tues, 12/30/2025 at 9:00 AM
 FVHD PROJECT#: 55168 *C*

PRE-BID SIGN-IN SHEET

REPRESENTATIVE NAME (Please Print)	COMPANY NAME & ADDRESS	CONTRACT NUMBER	TELEPHONE#	FAX#	E-MAIL
TED LINDEMANN	THERMAL PIPING				estimating @ thermalpiping.com
Steve Bird	GPI Electrical		215-949-1592		Steve@gpi-electrical.com
Marcine Swygorski	NIRAM				ctk@Niram.com
ANTHONY DRAGOLI	PPS		609 203-7231		
GIND BRAVO	HIGLEY CONST.		908-377 9059		
Umut Isler	Hall Building Corp.		(732) 938-3399		estimating@ hallbuilding.com
Peter Jansz	ML INC		551-265-7358		peter@MLinc.biz
Anthony DeSapota	DeSapota Const. Inc		908-996-3888		bids@desapotaconstruction.com

William D. Hopkins III, AIA, LEED AP, NCARB
 George R. Duthie, AIA, PP
 Jason J. Dubowitch, AIA, NCARB
 Stephen W. Schreyer Jr., AIA, NCARB, LEED AP BD+C



Robert Duchers	CapC 100	979 376 6116			
Nick Peterskit	Bracknell Corrington	975-237-1212			
Nolan Walsh	Ben Harvey Co.	732-443 2300			
JOE MULLIN	TESTER CONSTRUCTION	215-480 2311			

SECTION 08700 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Stile and Rail Wood Doors"
 - d. "Interior Aluminum Doors and Frames"
 - e. "Aluminum-Framed Entrances and Storefronts"
 - f. "Stainless Steel Doors and Frames"
 - g. "Special Function Doors"
 - h. "Entrances"
6. Division 16 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 16 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
 - a. Review Drawings and Sections from related Trades to verify compatibility with specified hardware.
 - b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Bid Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule:
 - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
 - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
5. Key Schedule:
 - a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
 - f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. Fire door assemblies, in compliance with NFPA 80.
 - b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified Tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware: DHI certified AHC or DHC.
 - b. Can provide installation and technical data to Architect and other related subcontractors.

- c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
- 4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

- 1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
- 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- 3. Electrified Door Hardware
 - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to Authorities Having Jurisdiction.
- 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 08700, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

- 1. Keying Conference
 - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.
- 2. Pre-installation Conference
 - a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss preparatory work performed by other Trades.

- c. Inspect and discuss electrical roughing-in for electrified door hardware.
 - d. Review sequence of operation for each type of electrified door hardware.
 - e. Review required testing, inspecting, and certifying procedures.
 - f. Review questions or concerns related to proper installation and adjustment of door hardware.
3. Electrified Hardware Coordination Conference:
- a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks
 - a) Schlage ND Series; or approved equal: **Ten (10) years**
 - 2) Exit Devices
 - a) Von Duprin; or approved equal: **Ten (10) years**
 - 3) Closers
 - a) LCN 4050 Series; or approved equal: **Twenty-five (25) years**
 - 4) Automatic Operators
 - a) LCN; or approved equal: **Two (2) years**
 - b. Electrical Warranty
 - 1) Locks
 - a) Schlage; or approved equal: **Three (3) years**
 - 2) Exit Devices
 - a) Von Duprin: **Three (3) years**
 - 3) Closers
 - a) LCN: **Two (2) years**

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with AIA A232 and Section 00800.
- B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

- C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series; or approved equal.
2. Acceptable Manufacturers and Products:
 - a. Hager BB1191/1279 series; or approved equal.
 - b. Best FBB series; or approved equal.

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.

2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal.
2. Acceptable Manufacturers:
 - a. Select
 - b. Roton
 - c. Or approved equal.

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.

4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to Authority Having Jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives,
 - b. Or approved equal.
2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
 - c. Or approved equal

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.06 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage ND series
 - b. Or approved equal
2. Acceptable Manufacturers and Products:
 - a. Best 9k
 - b. Or approved equal

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.

2. Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:
 - a. Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
 - b. Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
 - c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
 - d. Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
 - e. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
3. Cylinders: Refer to "KEYING" article, herein.
4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Provide electrified options as scheduled in the hardware sets.
9. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 - a. Lever Design: Rhodes

2.07 DEAD BOLTS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage B500 Series
 - b. Or approved equal
2. Acceptable Manufacturers and Products:
 - a. Falcon D200 Series
 - b. Sargent 470 Series

B. Requirements:

1. Provide grade 2 deadbolt series conforming to ANSI/BHMA A156.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide deadbolts with standard 2-3/4 inches (70 mm) backset. Provide 2-3/8 inches (60 mm) where noted or if door or frame detail requires. Provide deadbolt with full 1-inch (25 mm) throw, constructed of steel alloy.
4. Provide manufacturer's standard strike.
5. Lock Status Indicator Trim: Where specified, provide escutcheon with lock status indicator window.
 - a. Escutcheon height 4.125 inches, width 2.54 inches. Projection 1.32 inches on thumbturn side and 1.28 inches on cylinder side.
 - b. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.

- c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
- d. Indicator window to provide 180-degree visibility.

2.08 EXIT DEVICES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 98/35A series
 - b. Or approved equal
- 2. Acceptable Manufacturers and Products:
 - a. Precision APEX 2000 series
 - b. Falcon 24/25 series
 - c. Or approved equal

B. Requirements:

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 7. Provide flush end caps for exit devices.
- 8. Provide exit devices with manufacturer's approved strikes.
- 9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- 10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- 13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 14. Provide electrified options as scheduled.
- 15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.

16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.09 ELECTRONIC ACCESS CONTROL WIRELESS CYLINDRICAL LOCK

A. Manufacturers:

1. Scheduled Manufacturer and Product:
 - a. Schlage NDEB series
 - b. Or approved equal

B. Requirements:

1. ANSI/BHMA A156.2 Series 4000, Grade 1.
2. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes.
3. Certified to UL10C 3-hour rating, ULC-S319, FCC Part15, ADA RoHS, ICC ANSI A117.1
4. Listed, UL 294 - The Standard of Safety for Access Control System Units.
5. Compliant with ANSI/BHMA A156.25 Operation and Security interior operating range of 32 degrees F (0 degrees C) to 120 degrees F(49 degrees C) for interior use only.
6. Compliant with ASTM E330 for door assemblies.
7. Compliant with ICC / ANSI A117.1, NFPA 101, NFPA 80 and IBC Chapter 10 Cylinders: Refer to "KEYING" article, herein.
8. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
 - a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
 - b. Offset lever pull – minimum 1,600-foot pounds without gaining access
 - c. Vertical lever impact – minimum 100 impacts without gaining access
 - d. Cycle Test - tested to minimum 16 million cycles with no visible lever sag or use of performance aids such as set screws or spacers.
9. Emergency Override: Provide mechanical key override; cylinders: Refer to "KEYING" article, herein.
10. Levers:
 - a. Vandal Resistance: Exterior (secure side) lever rotates freely while door remains locked, preventing damage to internal locking components from vandalism by excessive force.
 - b. Provide lever trim that operates independently of each other and is field reversible without tools.
 - c. Style: Rhodes
11. Power Supply: 4 AA batteries
 - a. Provide battery powered wireless electronic products with the ability to communicate battery status and battery voltage level by means of a mobile app at door and remotely by Partner integrated software.
12. Features:

- a. Ability to communicate unit's communication status.
 - b. Visual LED indicators that indicate activation, operational systems status, system error conditions and low power conditions.
 - c. Audible feedback that can be enabled or disabled.
 - d. Suitable for both interior and exterior deployment.
 - e. Employ Wi-Fi communications to permit remote view of audits and alerts, as well as provide automatic daily updates to lock configuration and user access rights.
13. Adaptability:
- a. Open Architecture: Provide locksets manufactured with open architecture characteristics capable of handling new and existing access control software and credential reading technology. Can be supported by cloud-based web and mobile apps without the need for an integrated software partner.
14. Switches:
- a. Door Position Sensor – magnet integrated into strike to eliminate additional door prep
 - b. Interior Cover Tamper Guard
 - c. Battery Status
 - d. Request to Exit
 - e. Interior Push Button
15. Credentials: Provide integral credential reader modules in the following configurations:
- a. NFC, including peer-peer compatible, operable with both Android and IOS mobile devices
 - b. 125 kHz contactless smart cards
 - 1) Compatibility: Schlage, XceedID, ISONAS, HID, GE/CASI, AWID
 - c. 13.56 MHz contactless smart cards
 - 1) Secure section (multi-technology and smart card) compatibility: Schlage MIFARE Classic, Schlage MIFARE DESFire EV1/EV3
 - 2) 13.56 MHz Serial number only (multi-technology and smart card) compatibility: DESFire CSN, HID iCLASS CSN, MIFARE CSN, MIFARE DESFire EV1/EV3 CSN
 - d. Multi-technology contactless for applications requiring read capability for both 125 kHz proximity and 13.56 MHz contactless smart cards.
 - e. BLE
16. Records: Subject to the limitations of the attached access control system, the wireless locks possess enough storage capacity to support 5000 users and 2000 audits.
17. Verification time: less than or equal to 1 second for smart cards and proximity cards
18. Coordinate with Division 01 and 281300 Access Control.

2.10 ELECTRIC STRIKES

- A. Manufacturers and Products:
- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 6000 Series
 - b. Or approved equal

2. Acceptable Manufacturers and Products:

- a. Folger Adam 300 Series
- b. HES 1006 Series
- c. Or approved equal

B. Requirements:

- 1. Provide electric strikes designed for use with type of locks shown at each opening.
- 2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
- 3. Where required, provide electric strikes UL Listed for fire doors and frames.
- 4. Provide transformers and rectifiers for each strike as required. Verify voltage with Electrical Subcontractor.

2.11 POWER SUPPLIES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. Schlage/Von Duprin PS900 Series
 - b. Or approved equal
- 2. Acceptable Manufacturers and Products:
 - a. Precision ELR series
 - b. Security Door Controls 600 series
 - c. Or approved equal

B. Requirements:

- 1. Provide power supplies approved by manufacturer of supplied electrified hardware.
- 2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
- 3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
- 4. Provide power supplies with the following features:
 - a. 12/24 VDC Output, field selectable.
 - b. Class 2 Rated power limited output.
 - c. Universal 120-240 VAC input.
 - d. Low voltage DC, regulated and filtered.
 - e. Polarized connector for distribution boards.
 - f. Fused primary input.
 - g. AC input and DC output monitoring circuit w/LED indicators.
 - h. Cover mounted AC Input indication.
 - i. Tested and certified to meet UL294.
 - j. NEMA 1 enclosure.
 - k. Hinged cover w/lock down screws.
 - l. High voltage protective cover.

2.12 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product:
 - a. Existing Best Key System
 - b. Or approved equal

B. Requirements:

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.13 KEYING

A. Scheduled System:

1. Existing factory registered system:
 - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Construction Keying:
 - a. Replaceable Construction Cores.
 - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - a) 3 construction control keys
 - b) 12 construction change (day) keys.
 - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
2. Permanent Keying:
 - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner.
 - b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
 - c. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
 - d. Identification:
 - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - 2) Identification stamping provisions must be approved by the Architect and Owner.

- 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
- 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
- 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- e. Quantity: Furnish in the following quantities.
 - 1) Permanent Control Keys: 3.
 - 2) Master Keys: 6.
 - 3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
 - 4) Key Blanks: Quantity as determined in the keying meeting.

2.14 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Telkee
 - b. Or approved equal
2. Acceptable Manufacturers:
 - a. HPC
 - b. Lund
 - c. Or approved equal

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.15 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. LCN 4050A series
 - b. Or approved equal
2. Acceptable Manufacturers and Products:
 - a. Falcon SC70A series
 - b. Norton 7500 series
 - c. Or approved equal

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
3. Closer Body: 1-1/2-inch (38 mm) diameter with 11/16-inch (17 mm) diameter heat-treated pinion journal and full complement bearings.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and all weather requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and back check.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide stick on templates, special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.16 ELECTROMECHANICAL CLOSER/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. LCN SEM7800 Series
 - b. Or approved equal
 - c.
2. Acceptable Manufacturers:
 - a. Norton
 - b. Rixson
 - c. Or approved equal

B. Requirements:

1. Provide single-point or multi-point hold-open electromechanical closer/holders as specified. Coordinate voltage requirements and provide transformer if necessary.
2. Provide closer/holders that function as full rack and pinion door closer when current is interrupted or continuous hold-open is not engaged.
3. Provide door closers with fully hydraulic, full rack and pinion action with high strength cylinder and full complement bearings at shaft.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Pressure Relief Valve (PRV) Technology: Not permitted.

8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.17 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal
2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
 - c. Or approved equal

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.18 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal
2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
 - c. Or approved equal

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Size plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.19 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
 - a. Glynn-Johnson
 - b. Or approved equal
 2. Acceptable Manufacturers:
 - a. Rixson
 - b. ABH
 - c. Or approved equal
- B. Requirements:
1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.20 DOOR STOPS AND HOLDERS

- A. Manufacturers:
1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal
 2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
 - c. Or approved equal
- B. Provide door stops at each door leaf:
1. Provide wall stops wherever possible. Provide concave type where lockset has a push button or thumbturn.
 2. Where a wall stop cannot be used, provide universal floor stops.
 3. Where wall or floor stop cannot be used, provide overhead stop.
 4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.21 SILENCERS

- A. Manufacturers:
1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal
 2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco
 - c. Or approved equal
- B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.22 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

B. Scheduled Manufacturer:

1. Zero International
2. Or approved equal

C. Acceptable Manufacturers:

1. National Guard
2. Reese
3. Or approved equal

D. Seals and Gasketing: Provide continuous gasketing on exterior openings, to the head and jams, forming a continuous seal between the door and the frame. Provide smoke, light, or sound gasketing on interior doors where indicated.

1. Provide self-tapping fasteners for aluminum extruded gasketing being applied to hollow metal frames.
 - a. Provide non-corrosive fasteners for all exterior applications.
 - b. Provide security fasteners where indicated.
2. Provide neoprene, EPDM, silicone, or nylon brush inserts as specified in hardware sets. Provide non brush inserts of solid or sponge cell, as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.

E. Smoke Labeled Gasketing: At all smoke labeled openings, provide smoke listed perimeter gasketing assemblies complying with NFPA 105 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.

F. Fire Listed Gasketing: Assemblies complying with NFPA 80 that are listed by a testing and inspecting agency acceptable to Authorities Having Jurisdiction for fire ratings indicated based on testing according to UL-10C.

1. Where frame-applied intumescent seals are required by the manufacturer, provide gaskets that comply with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.

G. Sound-Rated Gasketing: Provide acoustic gasketing to meet Sound Transmission Class (STC) rating required.

- H. Meeting-Style Gasketing: Provide meeting-style gasketing that fastens to the meeting stiles forming a continuous seal when doors are closed.
- I. Door Sweeps or Shoes: Apply to the bottom of the door to close the gap between the door bottom and finished floor or saddle threshold.
 - 1. Provide solid neoprene, EPDM, silicone, or nylon brush type of seal as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.
- J. Automatic Door Bottoms:
 - 1. Provide closed cell sponge, bulb neoprene, or EPDM type of seal as specified in hardware sets.
 - 2. Door bottom to be mortised, semi mortised, or surface mount as with a minimum thickness as specified in hardware sets.
- K. Rain Drips:
 - 1. Provide overhead rain drips for out-swinging hollow metal doors that are not covered against 45 degree blowing rain. Aluminum extrusion to be a minimum of .088 inches thick and extend 2.50 inches from the face of the frame, in anodized finish to match door.
 - 2. Door sweeps or shoes with integral rain drip must meet ADA requirements
- L. Thresholds: Provide threshold units not less than 4 inches wide, formed to accommodate change in floor elevation where indicated, and fabricated to accommodate door hardware and fit door frames.
 - 1. Threshold extrusion to be a minimum thickness as specified in hardware sets.

2.23 MAGNETIC HOLDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. LCN
 - b. Or approved equal
 - 2. Acceptable Manufacturers:
 - a. Rixson
 - b. Sargent
 - c. Or approved equal
- B. Requirements:
 - 1. Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordinate projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Connect magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

2.24 COAT HOOKS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - b. Or approved equal
 - 2. Acceptable Manufacturers:
 - a. Burns
 - b. Rockwood
 - c. Or approved equal
- B. Provide coat hooks as specified.

2.25 FINISHES

- A. FINISH: BHMA 626/652 (US26D); EXCEPT:
 - 1. Hinges at Exterior Doors: BHMA 630 (US32D)
 - 2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
 - 3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
 - 4. Protection Plates: BHMA 630 (US32D)
 - 5. Overhead Stops and Holders: BHMA 630 (US32D)
 - 6. Door Closers: Powder Coat to Match
 - 7. Wall Stops: BHMA 630 (US32D)
 - 8. Latch Protectors: BHMA 630 (US32D)
 - 9. Weatherstripping: Clear Anodized Aluminum
 - 10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 16, ELECTRICAL and Division 16 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

- L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.
- M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- P. Thresholds:
 - 1. Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
 - 2. Aluminum thresholds to be cut-in, and scribed around mullions, frame members, and stops. Do not butt to thresholds. Provide a continuous surface across full width of opening from jamb to jamb.
 - 3. Where aluminum panic-type (rabbeted) thresholds with neoprene inserts are specified, undercut doors as required to properly mate with seal in threshold.
- Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- R. Perimeter Gasketing:
 - 1. Apply to head and jamb, forming seal between door and frame.
 - 2. Install gasketing in a manner eliminating need to cut any seal to install surface mounted hardware. Install compatible mounting bracket for surface mounted hardware unless minimum 1/4 inch thick solid aluminum seals are provided for mounting of surface applied hardware.
- S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 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.

1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware Specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, Specifications, Drawings, and other Bid Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to 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.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

Legend:

Link to catalog cut sheet

✍ Electrified Opening

Hardware Group No. 00

For use on Door #(s):

119A-1 119A-2 119A-3

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
	EA	CASED/ TRIMMED OPENING	NO HARDWARE REQ		

Hardware Group No. 00A

For use on Door #(s):

C1000

Provide each CO door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
1	EA	CASED/ TRIMMED OPENING	NO HARDWARE REQ		

Hardware Group No. CRS-02

For use on Door #(s):

110 111-1

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK W/ INSIDE INDICATOR	ND50HD RHO IS-LOC	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

Hardware Group No. CRS-02.1

For use on Door #(s):

133 137 138 139

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK W/ INSIDE INDICATOR	ND50HD RHO IS-LOC	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	FINGER GUARD	972AA	AA	ZER
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. CRS-02.2

For use on Door #(s):

235

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK W/ INSIDE INDICATOR	ND50HD RHO IS-LOC	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	OH STOP	90S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. CRS-02.3

For use on Door #(s):

238 239 240A 240B 241 242

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK W/ INSIDE INDICATOR	ND50HD RHO IS-LOC	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. EXD-1D

For use on Door #(s):

S1-1 S1-3

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	THRESHOLD	545A	A	ZER

Hardware Group No. EXD-1E

For use on Door #(s):

130-1

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBR-06-499F	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	SURFACE CLOSER	4050A EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FIRE/LIFE WALL MAG	SEM 7800	⚡ 689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	THRESHOLD	545A	A	ZER

Hardware Group No. EXD-2D

For use on Door #(s):

C2-3

Provide each DE door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBR-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBRAFL-499F	626	VON
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM 7800	⚡ 689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER

Hardware Group No. EXD-2F

For use on Door #(s):

140-1 140-2

Provide each PR door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBR-06-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-06-499F	626	VON
2	EA	IC MORTISE CYLINDER - CAM AS REQUIRED	1E74	626	BES
2	EA	RIM CYL THUMBTURN	XB11-979	626	SCH
2	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER

Hardware Group No. EXD-2F.1

For use on Door #(s):

120-1 121

Provide each PR door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBR-06-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-06-499F	626	VON
2	EA	IC MORTISE CYLINDER - CAM AS REQUIRED	1E74	626	BES
2	EA	RIM CYL THUMBTURN	XB11-979	626	SCH
2	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	SET	GASKETING	870AA-S	AA	ZER
2	EA	DOOR BOTTOM	364AA	AA	ZER
1	EA	MOUNTING BRACKET	870SPB		ZER

Hardware Group No. EXD-2G

For use on Door #(s):

119B-1

Provide each PR door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	9827-L-BE-F-LBR-06-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-BE-F-LBRAFL-06-499F	626	VON
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM 7800	⚡ 689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER

Hardware Group No. EXD-EXT-1B

For use on Door #(s):

119B-2 140A

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-98-NL-OP-110MD	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	⚡ 630	VON
1	EA	FLUSH PULL	BY DOOR MANUFACTURER		
1	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
1	EA	CARD READER	BY SECURITY		BYO
1	EA	DOOR CONTACT	BY SECURITY	⚡	BYO
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	⚡ LGR	SCE
1		WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

Hardware Group No. EXD-EXT-1F

For use on Door #(s):

120-2

Provide each SGL door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-98-EO	626	VON
1	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
1		WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

Hardware Group No. EXD-EXT-2B

For use on Door #(s):

140-3

140-4

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
2	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	ELEC PANIC HARDWARE	LD-RX-9847-EO-CON	⚡ 626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9847-NL-OP-110MD- CON 24 VDC	⚡ 626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	FLUSH PULL	BY DOOR MANUFACTURER		
2	EA	OH STOP	90S	630	GLY
2	EA	SURFACE CLOSER	4050A SPEC ST-5204	689	LCN
2	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
2	EA	WIRE HARNESS	CON-XX-P LENGTH AS REQUIRED FOR USE WITH DOOR	⚡	SCH
2	EA	WIRE HARNESS	CON-6W	⚡	SCH
1	EA	CARD READER	BY SECURITY		BYO
2	EA	DOOR CONTACT	BY SECURITY	⚡	BYO
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	⚡ LGR	SCE
1		WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

DOOR NORMALLY CLOSED AND LOCKED. ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. UPON POWER FAILURE DOOR REMAINS LOCKED. DOOR
CONTACT MONITORS THE DOOR POSITION

Hardware Group No. EXD-EXT-2F

For use on Door #(s):

S1-2

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
2	EA	CONT. HINGE	112XY	628	IVE
2	EA	PANIC HARDWARE	LD-9847-EO	626	VON
2	EA	OH STOP	90S	630	GLY
2	EA	SURFACE CLOSER	4050A SPEC ST-5204	689	LCN
2	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

Hardware Group No. EXD-EXT-2G

For use on Door #(s):

C1-1

C2-1

C2-2

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
2	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	ELEC PANIC HARDWARE	LD-RX-9847-EO-CON	⚡ 626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9847-NL-OP-110MD- CON 24 VDC	⚡ 626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	FLUSH PULL	BY DOOR MANUFACTURER		
2	EA	OH STOP	90S	630	GLY
2	EA	SURFACE CLOSER	4050A SPEC ST-5204	689	LCN
2	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
2	EA	WIRE HARNESS	CON-XX-P LENGTH AS REQUIRED FOR USE WITH DOOR	⚡	SCH
2	EA	WIRE HARNESS	CON-6W	⚡	SCH
1	EA	CARD READER	BY SECURITY		BYO
2	EA	DOOR CONTACT	BY SECURITY	⚡	BYO
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	⚡ LGR	SCE
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

DOOR NORMALLY CLOSED AND LOCKED. ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. UPON POWER FAILURE DOOR REMAINS LOCKED. DOOR
CONTACT MONITORS THE DOOR POSITION

Hardware Group No. EXD-EXT-2G.2

For use on Door #(s):

C1003-1

Provide each PR door(s) with the following:

QT		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
Y					
2	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	ELEC PANIC HARDWARE	LD-RX-9847-EO-CON	⚡ 626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9847-NL-OP-110MD-CON 24 VDC	⚡ 626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	FLUSH PULL	BY DOOR MANUFACTURER		
2	EA	SURFACE CLOSER	4050A SCUSH	689	LCN
2	EA	DOOR SWEEP	8197AA	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
2	EA	WIRE HARNESS	CON-XX-P LENGTH AS REQUIRED FOR USE WITH DOOR	⚡	SCH
2	EA	WIRE HARNESS	CON-6W	⚡	SCH
1	EA	CARD READER	BY SECURITY		BYO
2	EA	DOOR CONTACT	BY SECURITY	⚡	BYO
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	⚡ LGR	SCE
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

DOOR NORMALLY CLOSED AND LOCKED. ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. UPON POWER FAILURE DOOR REMAINS LOCKED. DOOR CONTACT MONITORS THE DOOR POSITION

Hardware Group No. OF-01

For use on Door #(s):

140C

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ENTRANCE/OFFICE LOCK W/ OUTSIDE INDICATOR	ND50HD RHO OS-OCC	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A SPEC ST-5204	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. STA-01

For use on Door #(s):

S-001

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY	628	IVE
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FIRE/LIFE WALL MAG	SEM 7800	✎ 689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER

Hardware Group No. STA-02

For use on Door #(s):

S-003

Provide each PR door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628	IVE
1	EA	FIRE EXIT HARDWARE	9827-L-BE-F-LBR-06-499F	626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-BE-F-LBRAFL-06-499F	626	VON
2	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM 7800	✈ 689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER

Hardware Group No. STO-01

For use on Door #(s):

111-2 130B 140D 142C

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80HD RHO	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. STO-01.1

For use on Door #(s):

119C 121A 136

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80HD RHO	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. STO-01.2

For use on Door #(s):

130A 141 236 236A

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTERY OPERATED BY SECURITY INTEGRATOR	✎ 626	SCE
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. STO-02

For use on Door #(s):

140B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	MANUAL FLUSH BOLT	FB358	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	ND80HD RHO	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
2	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4050A SPEC ST-5204	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	SET	GASKETING	328AA-S	AA	ZER
1	EA	THRESHOLD	545A	A	ZER
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. STO-03

For use on Door #(s):

STG-1

STG-2

STG-3

STG-4

STG-5

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	MANUAL FLUSH BOLT	FB358	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	SGL CYL DEADBOLT	B560HD	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	FINGER PULL	1874	630	DON
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. TRM-01

For use on Door #(s):

142M 142W

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70HD RHO	626	SCH
1	EA	BEST PERM CORE	TO MATCH EXISTING BEST SYSTEM		BES
1	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. TRS-04

For use on Door #(s):

137A 138A 139A 241A 242A

Provide each SGL door(s) with the following:

QT Y		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	COAT AND HAT HOOK	571	A26D	IVE
3	EA	SILENCER	SR64	GRY	IVE

END OF SECTION

SECTION 08950 - INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL WALL SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes translucent fiberglass sandwich panel system for walls consisting of 2-3/4" thick flat factory prefabricated into single units and including factory installation.
- B. Related Work includes in the following sections:
 - 1. Section 04200 - Unit Masonry
 - 2. Section 05400 - Miscellaneous Structural Steel
 - 3. Section 05500 - Metal Fabrications
 - 4. Section 07600 - Flashing, Sheetmetal and Roof Accessories
 - 5. Section 07900 - Joint Sealer Assemblies

1.2 PERFORMANCE REQUIREMENTS

- A. Deflection of entire system shall be no more than L/60, unless otherwise indicated.
- B. Structural Loads: Provide system capable of handling the following loads when supporting full dead load:
 - 1. Positive Wind Load: 31 PSF
 - 2. Negative Wind Load: 31 PSF
- C. Air/Water Infiltration: For Water Penetration, the system shall be tested per procedures of ASTM E331, and shall show no water entry at WTP=10.00 psf, @ 5.00 gph/ft. squared.
 - 1. Test shall be performed before and after uniform loads are applied. For Air Leakage, system shall be tested per procedures of ASTM E-283, and shall show results of no more than 0.01 cfm/ft. squared @ 1.56 psf (25 mph) and 0.01 cfm/ft. squared @ 6.24 psf (50 mph).
- D. Standard panel system shall have less than 0.01 cfm/ft² air leakage by ASTM E 283 at 6.24 PSF (50 mph) and no water penetration by ASTM E 331 at 15 PSF; and structural testing by ASTM E 330.

1.3 SUBMITTALS

- A. Product Data: Submit shop drawings and color samples of face sheets and finishes according to Division 1 - General Requirements.
- B. Samples: Submit product sample showing thickness, face sheets, colors and insulation:
 - 1. Sandwich panels: 14" x 28" unit(s).
 - 2. Factory finished aluminum: 5" long section(s).

- C. Test Reports: To be furnished by systems manufacturer in accordance with Division 1 for Submittals.
1. The manufacturer shall submit certified test reports by an independent testing organization for each type and class of panel system. Reports shall verify that the material will meet all performance requirements of this Specification. Previously completed test reports will be acceptable if by current manufacturer and indicative of products used on this project. Test reports required are:
 - a. Flame Spread and Smoke Developed (ASTM E-84 by UL 723) - Submit UL Card.
 - b. Burn Extent (ASTM D 635)
 - c. Color Difference (ASTM D 2244)
 - d. Impact Strength (UL 972)
 - e. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037)
 - f. Bond Shear Strength (ASTM D-1002) after 5 different aging conditions
 - g. Beam Bending Strength (ASTM E 72)
 - h. Insulation "U" Factor (by NFRC 100; ASTM C-236; E-1423 and C-1199)
 - i. NFRC System U-Factor Certification
 - j. Solar Heat Gain Coefficient (NFRC or Calculations)
 - k. Condensation Resistance Factor (AAMA 1503)
 - l. Air Leakage (ASTM E 283)
 - m. Structural Performance (ASTM E 330)
 - n. Water Penetration (ASTM E 331)
 - o. 1200°F Fire Resistance (SWRI)
- D. Proof of regular, independent quality control monitoring under a nationally recognized building code review and listing program shall be submitted.
- E. Complete energy and structural calculations and all above data must be submitted.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Erection shall be by an installer which has been in the business of erecting and installing specified materials for a recommended five (5) consecutive years, and can show evidence of satisfactory completion of projects of similar size, scope and type.
- B. Shop drawings to be shall be prepared, signed and sealed by a registered Engineer in the State of New Jersey.
- C. System manufacturer must be listed by a recognized building code authority, including the International Code Council (ICC), which requires quality control inspections, and fire, structural and water infiltration testing by an approved agency for sandwich panel systems.
- D. Quality control inspections and required testing conducted at least once each year, shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 "Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems" as issued by the ICC-ES.
- E. Materials and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a recommended period of ten (10) consecutive years and which can show evidence of these materials being satisfactorily used

on a recommended six (6) projects of similar size, scope and type within such a period. Recommend at least three (3) projects shall have been in successful use for ten (10) years or longer.

- F. Performance Requirement: The manufacturer shall be responsible for the configuration and fabrication of the complete panel system.
- G. Panel system must be listed by an ANSI accredited Evaluation Service, which required quality control inspections and fire, structural and water infiltration testing of sandwich panel systems by an accredited agency.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions in system installation areas and indicate if dimensions on shop drawings are actual or guaranteed dimensions.

1.6 WARRANTY

- A. General Warranty: Any warranties specified in this section shall not alter or change Owners rights and provisions received under other Bid Documents, and shall be in addition to those documents.
- B. Special Warranty: System manufacturer shall provide written agreement to repair or replace all defective panel and system craftsmanship for a period of **five (5) years**, starting at date of date of delivery. Failure of materials or workmanship shall include leakage, excessive deflection, deterioration of finish on metal in excess of normal weathering and defects in accessories, insulated translucent sandwich panels and other components. Installer shall provide **two (2) year** warranty against leakage starting from date of installation completion.

1.7 PRODUCT HANDLING

- A. Store panels on long edge, several inches above the ground, blocked and under cover to prevent damage. Follow manufacturer's storage and handling instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Provide products as manufactured by Kalwall Corp.; or approved equal.
- B. Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:
 - 1. Major Industries, a Division of Kingspan Light & Air (KLA)
 - 2. Muhler,
 - 3. Or approved equal.

2.2 MATERIALS – TRANSLUCENT FACE SHEETS – PANEL FABRICATION

- A. Translucent fiberglass faces shall be manufactured from glass fiber reinforced thermoset resins by insulated system fabricator especially for architectural use. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.

- B. Flammability: The interior face sheet shall be UL listed and have a flamespread rating no greater than 50 and smoke developed no greater than 250 when tested in accordance with UL 723. Burn extent by ASTM D-635 shall be no greater than 1". Faces shall not deform, deflect, drip when subject to fire or flame, or become detached when subjected to 300°F for 25 minutes.
- C. Weatherability: The full thickness of the exterior face shall not change color more than 3.0 CIE Units DELTA E by ASTM D-2244 after five (5) years outdoor South Florida weathering at 5 degrees facing South, determined by the average of at least three (3) white samples with and without a protective film or coating to ensure maximum, long-term color stability.
- D. The exterior face shall have a permanent glass erosion barrier integrally embedded to provide maximum long-term resistance to fiber exposure. Sacrificial plastic surface films, coatings or veils not acceptable.
- E. Appearance:
1. Exterior face sheets shall be smooth, .070" thick and Crystal in color.
 2. Interior face sheet shall be .045" thick and White in color.
 3. Faces shall not vary more than +/- 10% in thickness, and be uniform in color.
- F. Panel Construction:
1. Provide sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.
 - a. Thickness: 2-3/4"
 - b. Light transmission: 20%
 - c. Solar heat gain coefficient: 0.21
 - d. Panel U-factor by NFRC certified laboratory: 2-3/4" thermally broken grid .23 U.
 - e. Complete insulated panel system shall have NFRC certified U-factor of 0.23.
 - f. Grid pattern: Nominal size 9" Verti-kal grid
 - 1) Pattern as indicated on the Drawings.
 2. Standard panels shall deflect no more than 1.9" at 30 PSF in 10'-0" span without a supporting frame by ASTM E 72.
- G. Thermal Insulation: Panels shall have a NFRC laboratory tested "U" factor of (.23) by NFRC 100 with system "U" value of .23. System shall be NFRC certified.
- H. Light & Solar Transmission: Panels shall have a light transmission of 20% and shading coefficient of 0.19 per ASTM E-972.
- I. Grid Cores:
1. Grid pattern shall be as indicated and symmetrical about the horizontal center line for each flat panel.

2. The thermally broken (aluminum) I-beam grid core shall be 6063-T6 or 6005-T5 alloy with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16". The I-beam grid shall be machined to tolerances of not greater than +/- .002". Thermal break shall be 1" minimum.
 3. Panels shall withstand 1200°F fire for minimum one (1) hour without collapse or exterior flaming.
 4. Thermally broken panels shall give minimum CRF (Condensed Resistance Factor) of 80 by AAMA 1503 measured on the grid line.
- J. Adhesive:
1. The laminate adhesive shall be heat and pressure resin-type engineered for structural sandwich panel use, with minimum 25 years field use. Adhesive shall pass testing requirements specified by the International Conference of Building Officials "Acceptance Criteria for Sandwich Panel Adhesives."
 2. Minimum strength shall be 750 PSI tensile strength by ASTM C-297 after two (2) exposures to six (6) cycles each of the aging conditions prescribed by ASTM D-1037.
 3. Minimum shear strength by ASTM D-1002 minimum after exposures to four (4) separate aging conditions:
 - a. 50% Relative Humidity at 68°F: 540 PSI
 - b. 182°F: 100 PSI
 - c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
 - d. Accelerated Aging by ASTM D 1037 at 182°F: 250 PSI
- K. Impact Resistance: The exterior face sheet shall be uniform in strength, impenetrable by hand-held pencil and repel an impact equal to 70 ft. lbs. without fracture or tear when impacted by 3-1/4" diameter, 5 lb. free-falling ball per UL 972.
- L. Translucent structural sandwich panel shall be a true sandwich panel of flat fiberglass sheets bonded to a grid core of mechanically interlocking I-beams and shall be laminated under a controlled process of heat and pressure, and deflect no more than 1.9" at 30 psf in 10' by ASTM E-72.
- M. The adhesive bonding line shall be straight, cover the entire width of the I-beam, and have a neat, sharp edge. In order to insure bonding strength, white spots at intersections of mutins and mullions shall not exceed 4 for each 40 sq. ft. of panel, nor shall they be more than 3/36" in width.
- N. Panels and aluminum perimeter frame shall be pre-assembled where practical and sealed at the factory. Panels should be shipped to the job site in rugged shipping units, ready for erection.
- O. Perimeter closure system, battens and aluminum finishes:
1. Closure system shall be extruded 6063-T6 and 6063-T5 alloy aluminum and temper clamp-tite screw closure type. (Thermal break system for walls.)

2. Aluminum closures to be supplied with 300 series stainless steel screws (excluding final fasteners to building) and shall be factory sealed to the panels. Aluminum battens and cap plates shall be field installed.
3. All exposed aluminum to be architectural corrosion resistant finish which meets the performance requirements of AAMA 2604, color to be selected from manufacturer's standards and/or custom color to be provided.
4. Flexible sealing tape shall be manufacturer's standard pre-applied to serrated edges of closure system at factory under controlled conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not install systems until conditions adversely affecting installation and performance have been corrected.

3.2 PREPARATION

- A. Contractor shall prepare openings including isolating dissimilar materials from aluminum system which may cause damage by electrolysis, and shall provide temporary enclosures if required.

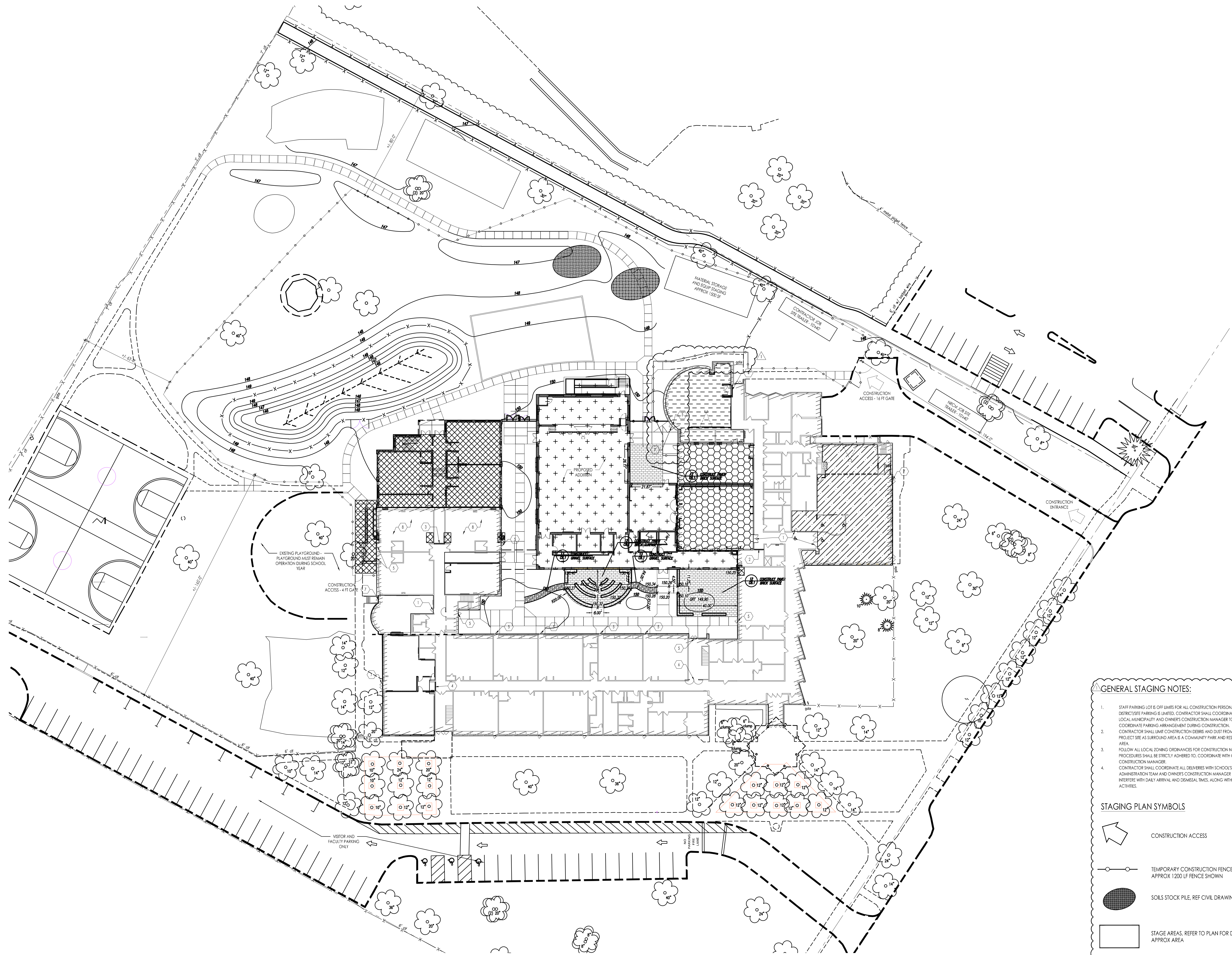
3.3 INSTALLATION

- A. Erect translucent panel system in strict accordance with approved shop drawings, as supplied by manufacturer, including fastening and sealing. All surfaces shall be cleaned before sealants are applied.
- B. Secure non-moveable joints and accommodate thermal and mechanical movements.
- C. Accommodate thermal and mechanical movements.
- D. Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.
- E. If required, insure weep holes are correctly installed.
- F. After Subcontractor(s) have completed Work on adjacent material, inspect translucent panel installation and make any adjustments necessary to ensure proper installation and weather-tight conditions.
- G. All staging and lifts required for the complete panel system installation and field measuring shall be provided by and maintained by the Contractor.

3.4 CLEANING

- A. Clean panel system, both sides, after installation according to manufacturer's recommendations.

END OF SECTION 08950



1 SITE ACCESS AND STAGING PLAN
3/64" = 1'-0"

PHASING LEGEND:

- ADDITION A1: GYMNASIUM ADDITION
MAR 2026 - AUG 2027
- ADDITION A2: TWO-STORY ADDITION
MAR 2026 - DEC 2027
- RENOVATION R1: CAFETERIA, KITCHEN/SERVING
JUN 2027** - AUG 2027

- RENOVATION R2: LIBRARY & MUSIC ROOMS
JUN 2027** - DEC 2027
- RENOVATION R3: FORMER LIBRARY CONVERSION
JAN 2028** - AUG 2028

NOTE:
* POTENTIAL EARLY START AND ASSUMES COMPLETION OF ADDITION A1
** ISOLATE AREA FROM INTERIOR AND FEED FROM EXIT AND ASSUMES COMPLETION OF RENOVATION R2

GENERAL STAGING NOTES:

- STAFF PARKING: LOT 6 OFF LIMITS FOR ALL CONSTRUCTION. PERSONAL VEHICLES SHALL BE LIMITED TO LOT 6. CONTRACTOR SHALL COORDINATE WITH LOCAL MUNICIPALITY AND OWNER'S CONSTRUCTION MANAGER TO COORDINATE PARKING ARRANGEMENT DURING CONSTRUCTION.
- CONTRACTOR SHALL LIMIT CONSTRUCTION DEBRIS AND DUST FROM LEAVING PROJECT SITE AS SURROUNDING AREA IS A COMMUNITY PARK AND RESIDENTIAL AREA.
- FOLLOW ALL LOCAL ZONING ORDINANCES FOR CONSTRUCTION NOISES AND PROCEDURES SHALL BE STRICTLY ADHERED TO. COORDINATE WITH OWNER'S CONSTRUCTION MANAGER.
- CONTRACTOR SHALL COORDINATE ALL DELIVERIES WITH SCHOOLS' ADMINISTRATION TEAM AND OWNER'S CONSTRUCTION MANAGER SO NOT TO INTERFERE WITH DAILY ARRIVAL AND DISMISSAL TIMES, ALONG WITH SCHOOL ACTIVITIES.

STAGING PLAN SYMBOLS

- CONSTRUCTION ACCESS
- TEMPORARY CONSTRUCTION FENCE APPROX 1200 LF FENCE SHOWN
- SOILS STOCK PILE, REF CIVIL DRAWINGS
- STAGE AREAS, REFER TO PLAN FOR DETAILS APPROX AREA

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ-2740700001 | PA-84072006
GEORGE R. DUTHE JR., AIA, PP
NJ-2740700001 | PA-84072006
JASON J. DUBOWITZ, AIA
NJ-2740700001 | PA-84072006
STEPHEN M. SCHREIBER JR., AIA, LEED AP BD-C
NJ-2740700001 | PA-84072006

FVH D
Frayk Velaz Hopkins Duthie P.C.
Corporate: 1515 Lower Ferry Road
Trenton, New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare, Pennsylvania 19453
F.V.H.D.P.C. - C O M

Project Name
Addition and Renovations to Community Park Elementary School

Project Owner Name
Princeton Public Schools

Project Location
372 Witherspoon St, Princeton, NJ 08542

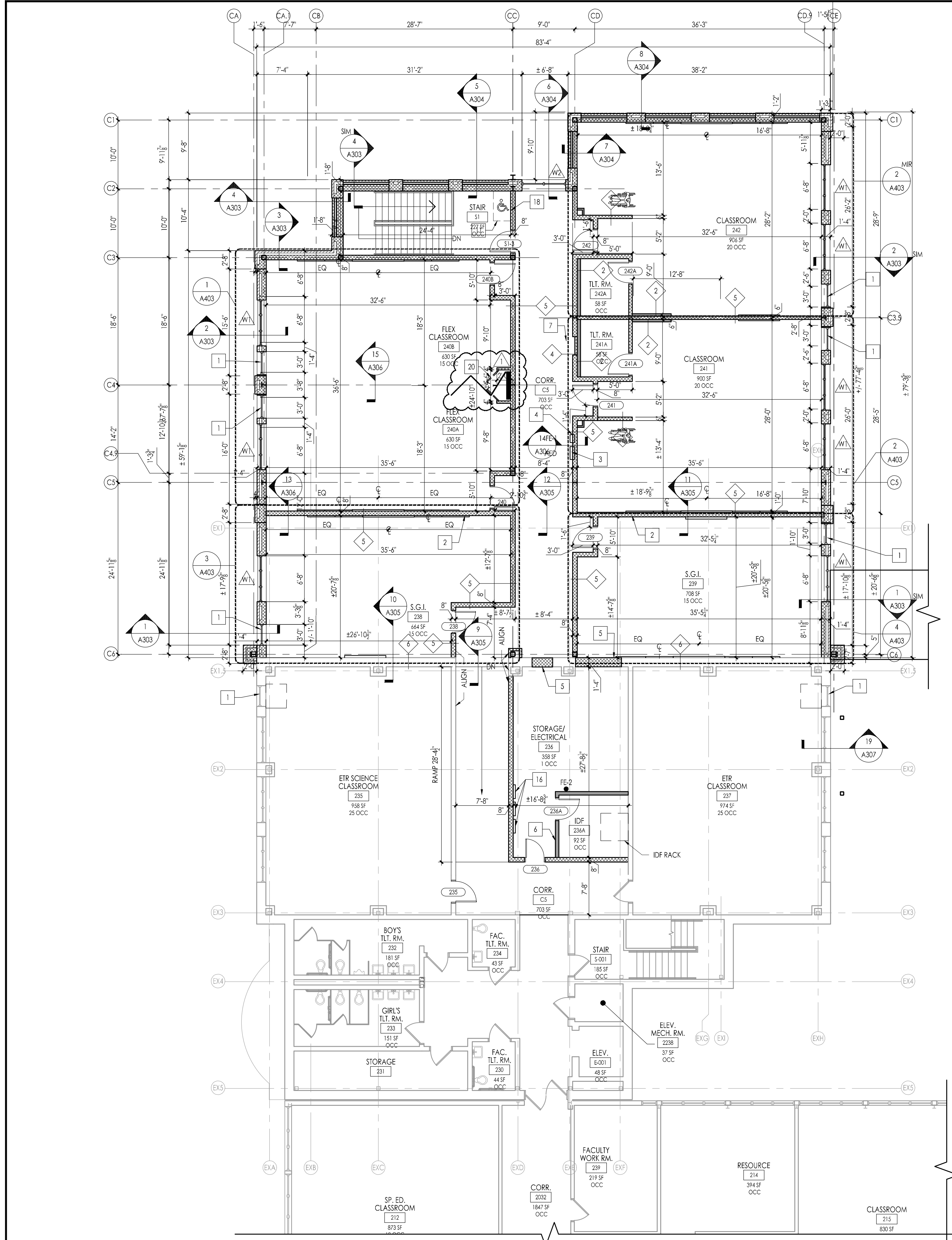
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5516C
Project Date
10.10.2025
Checked By
GRD
Drawn By
BMP
Scale
AS NOTED

Drawing Name
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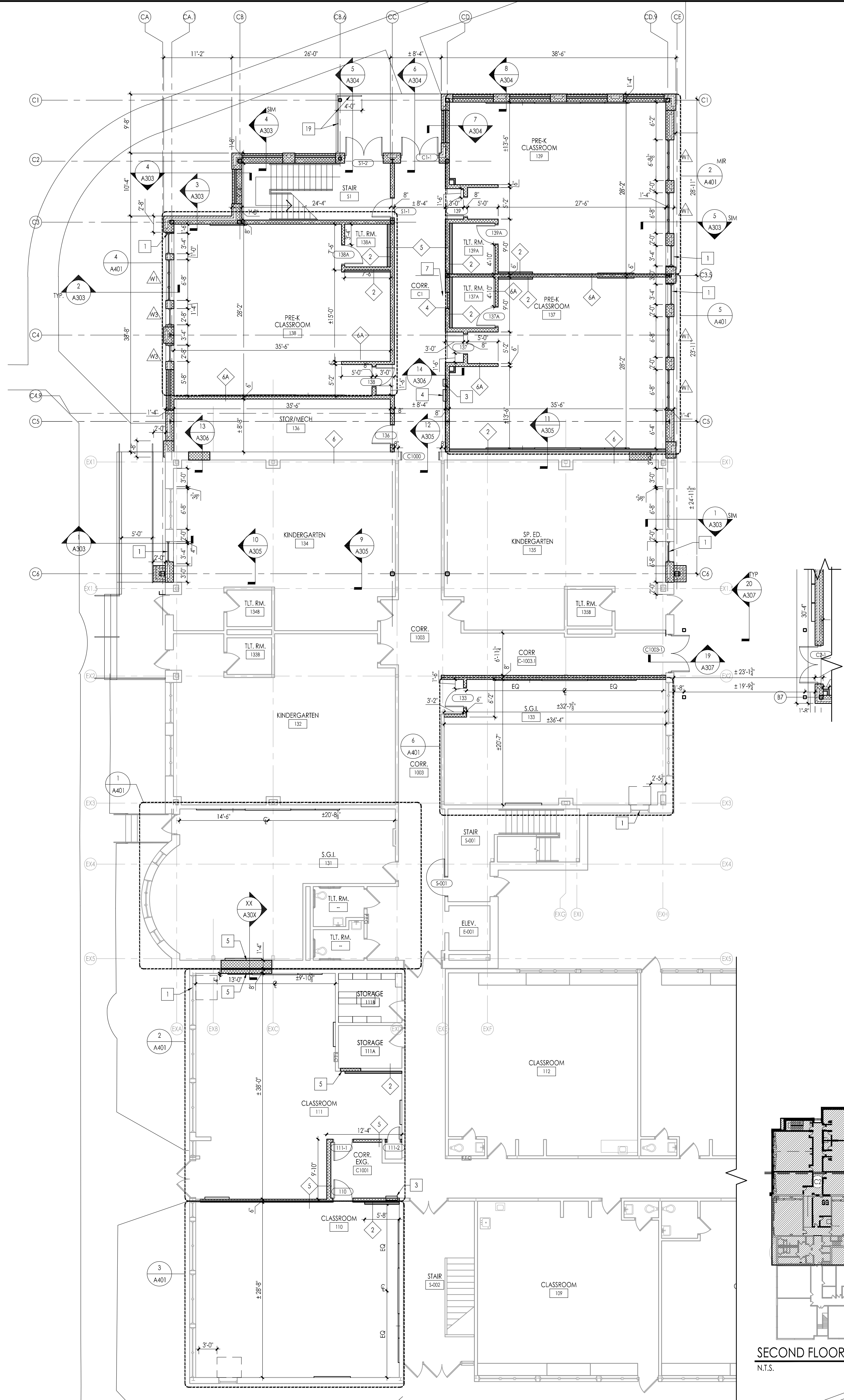
Revisions		
No.	Date	Description
1	10.10.25 01.15.26	NJ DCA SUBMISSION ADDENDUM 1

Drawing Number

A002A



1 AREA OF WORK 'C2' - SECOND FLOOR
1/8" = 1'-0"



2 AREA OF WORK 'C1' + 'AC' - FIRST FLOOR
1/8" = 1'-0"

PLAN LEGEND

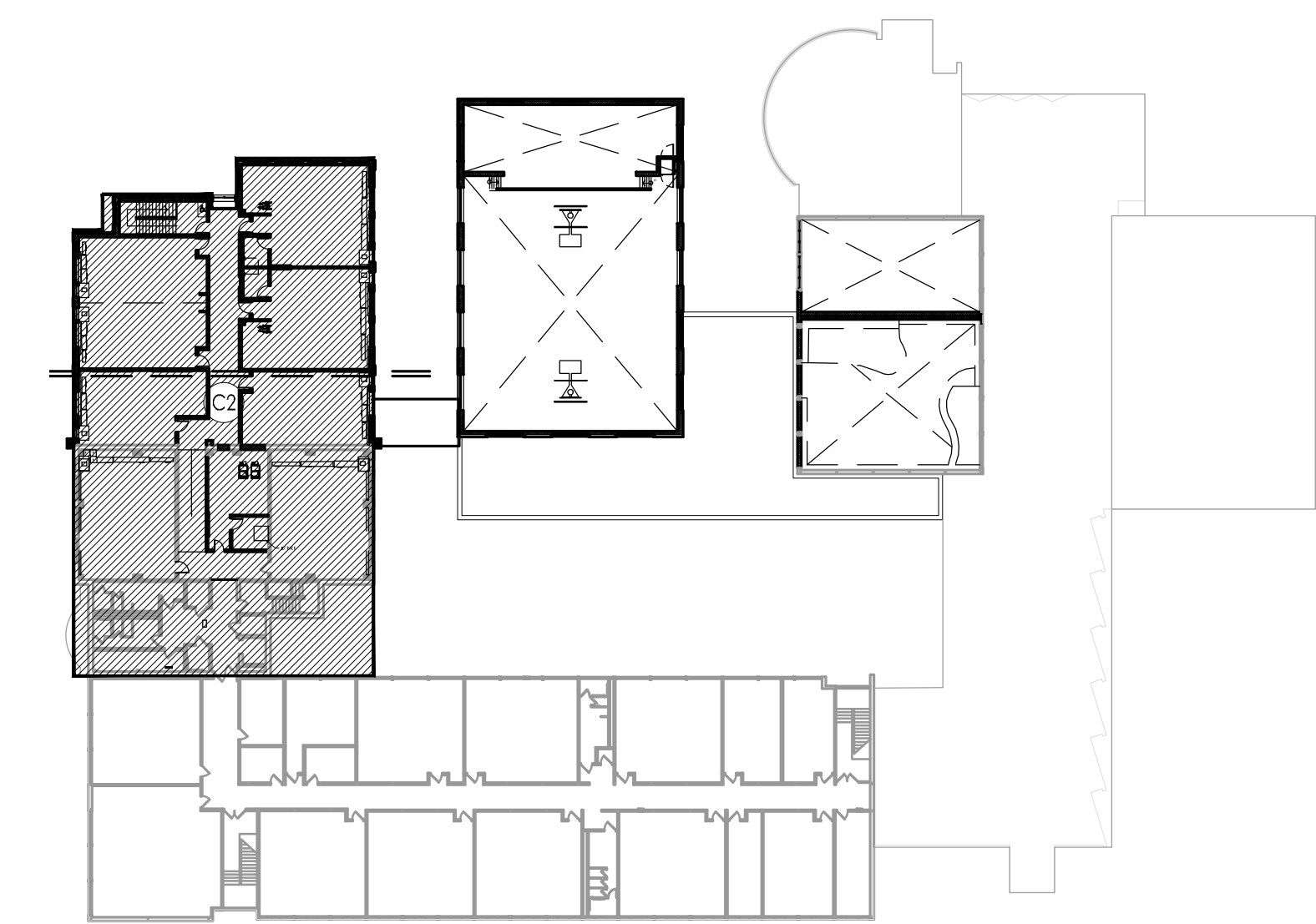
- BRICK
- NEW CMU PARTITION
- NEW GYPSUM BOARD PARTITION - MTL STUD (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH @ 1/2" O.C. W/ SOUND ATTENUATION BLANKET AND 5/8" GYPSUM BOARD EACH SIDE (TYP. 1/4" O.C.))
- NEW FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (CMU WALL) - SEE DETAIL 7 / G002
- EXISTING FIRE EXTINGUISHER TO REMAIN
- NEW / EXISTING 2-HOUR RATED FIRE WALL
- NEW / EXISTING 1-HOUR RATED CORRIDOR FIRE PARTITION
- NEW FIRE RATED WALLS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNIT (CMU) PER UL D915 FOR 8" CMU AND THICKER AND PER UL D554 FOR 6" CMU. SEE FLOOR PLANS AND WALL SECTIONS FOR LOCATIONS AND ACTUAL CMU THICKNESS.

PLAN NOTES

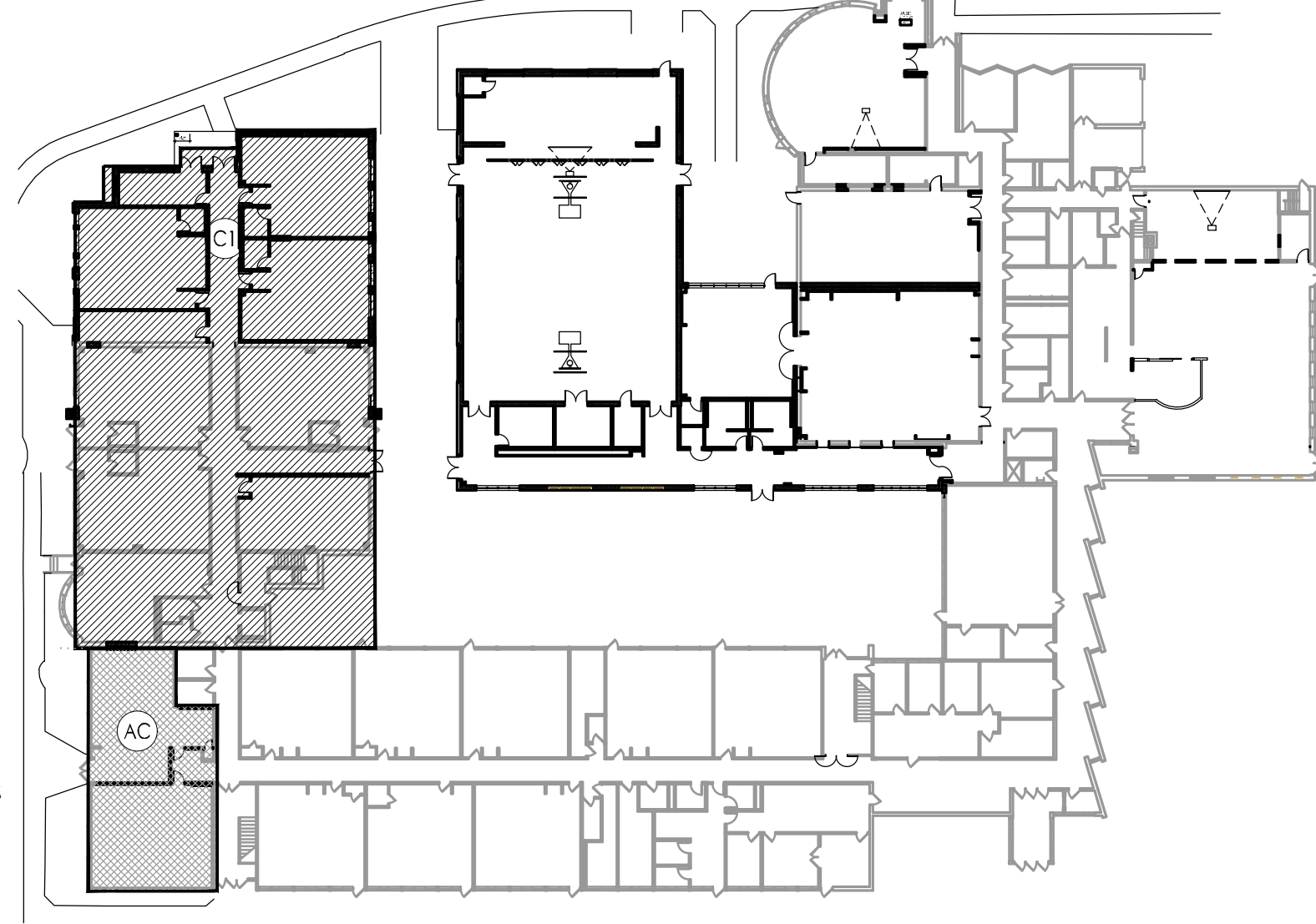
1. SEE 'PROJECT GENERAL NOTES' ON DRAWING G002.
2. ALL NEW WALLS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE UNLESS NOTED OTHERWISE.
3. IN ALL LOCATIONS WHERE NEW STEEL STUD AND GYPSUM BOARD WALL CONSTRUCTION IS INDICATED, PROVIDE CONTROL JOINTS AT SPACING NOT TO EXCEED 24" O.C. (TYP. LOCATIONS OF CONTROL JOINTS TO BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL).
4. ALL EXPOSED EXTERIOR STEEL UNITS SHALL BE PAINTED GALVANIZED STEEL.

FLOOR PLAN & PICTURE KEYNOTES

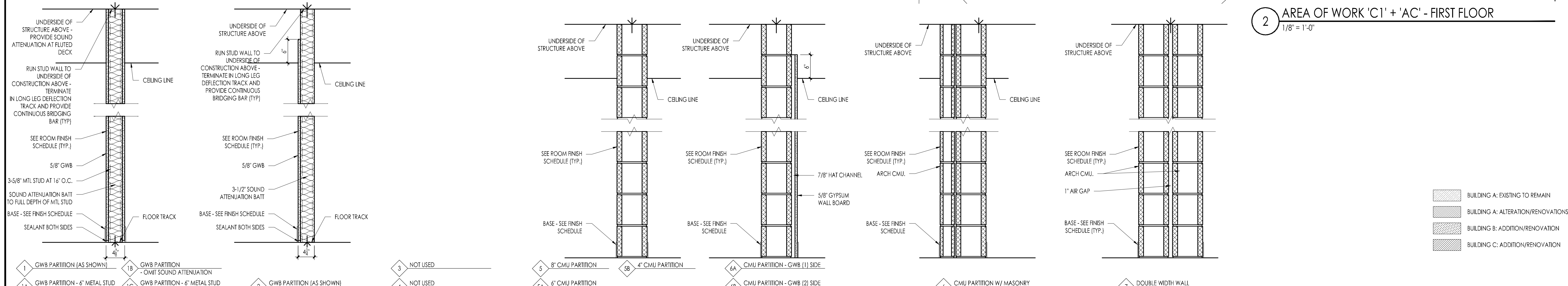
1. NEW EXISTING MECHANICAL UNIT VENTILATOR (OURVE. COORDINATE W/ MECHANICAL DRAWINGS).
2. LINE OF EXISTING EXTERIOR WALL BELOW.
3. RECESSED AED CABINET. REFER TO DETAILS ON G003.
4. RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAILS ON G003.
5. INFILL UNLINED OPENING IN EXISTING WALL WITH CMU BLOCK. SEE & THICKNESS TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. PROVIDE WIRELESS CARD READER. REFER TO DECK SCHEDULE FOR HARDWARE TYPE & ELECTRICAL DRAWINGS FOR DETAILS.
7. RECESSED BOTTLE FILLING STATION. COORDINATE W/ PLUMBING DRAWINGS.
8. 9' HEIGHT GYP. WALL BOARD PARTITION W/ SOLID SURFACE WALL CAP. REFERENCE WALL PARTITION TYPES FOR DETAILS.
9. UNEXCAVATED, SLAB ON GRADE. REFER TO A300 SERIES DRAWINGS FOR DETAILS.
10. CONCRETE STAIRS & RAMP. REFER TO A300 SERIES DRAWINGS FOR DETAILS.
11. AREA OF REFUGE. PROVIDE TWO WAY COMMUNICATION. REFER TO ELEC. DRAWINGS. PROVIDE SIGN TYPE 'S'. REFER TO SIGN TYPES ON A401.
12. RECESSED FIRE HOSE CABINET. REFER TO PLUMBING DRAWINGS FOR DETAILS.
13. COMMUNICATIVE PLAQUE. REFER TO DETAIL 3/A102.
14. SHIPS LADDER. REFER TO 47/A312 AND SPECIFICATIONS.
15. STEEL GUARD RAILING SYSTEM. REFER TO 16/A305.
16. ELECTRICAL/MECHANICAL PANELS. REFER TO ELEC./MECH. DRAWINGS.
17. PROVIDE SIGN TYPE #2 AT BARRIER-FREE TOILET COMPARTMENTS. REFER TO SIGN TYPES ON A401.
18. PROVIDE SIGN TYPE #27 INSIDE OF STAIRWELL AT AREA OF REFUGE LOCATIONS. REFER TO SIGN TYPES ON A401.
19. ALUMINUM GUARD RAILING SYSTEM. REFER TO 5/A304.
20. OPERABLE PARTITION POCKET DOORS BY OPERABLE DOOR MANUFACTURE. REFER TO SPECIFICATIONS.



SECOND FLOOR - KEY PLAN
N.T.S.



FIRST FLOOR - KEY PLAN
N.T.S.



NJDEA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ-2740700001 PA-BA012020
GEORGE R. DUTHE JR., AIA, PP
NJ-2740700001 PA-BA012020
JASON J. DUBOWITZ, AIA
NJ-2740700001 PA-BA012020
STEPHEN W. SCHREIBER JR., AIA, LEED AP BD-C
NJ-2740700001 PA-BA012020

Corporate: 1515 Lower Ferry Road
Trenton, New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mount Clear - Pennsylvania 19453

F.V.H.D.P.C. C.O.M.

Project Name
Addition and Renovations to Community Park Elementary School

Project Owner Name
Princeton Public Schools

Project Location
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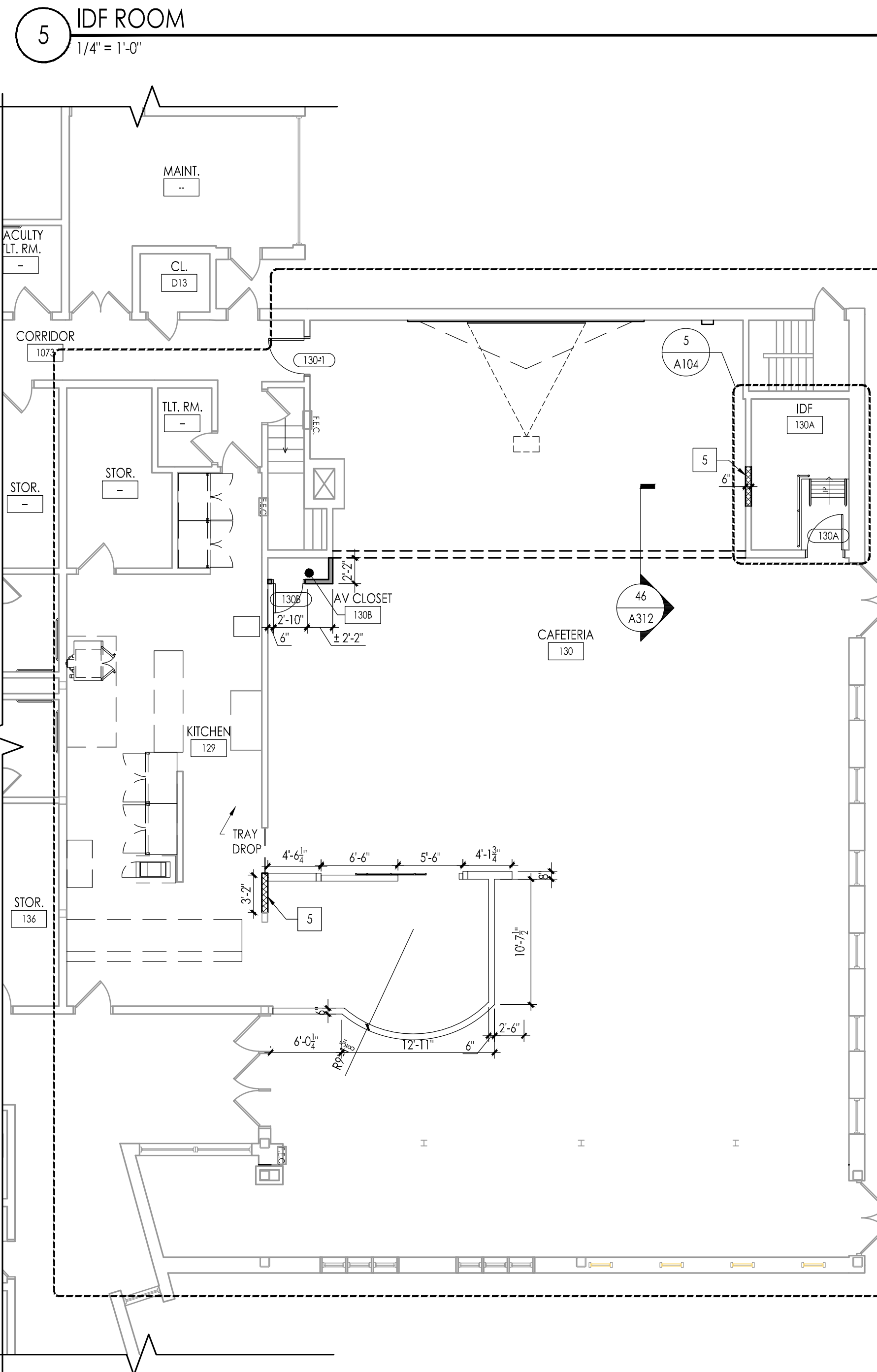
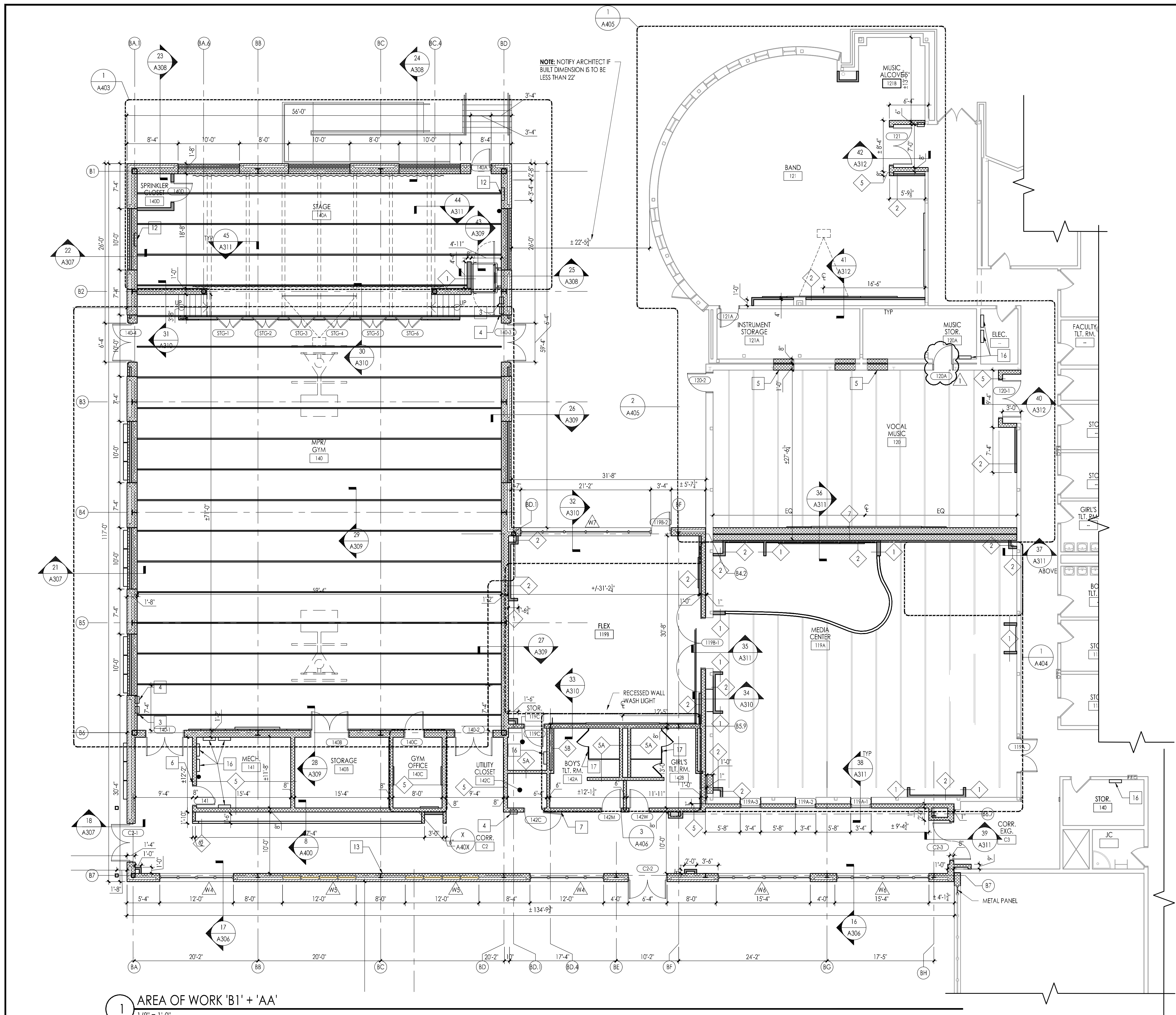
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5516C
Project Date
10.10.2025
Checked By
GRD
Drawn By
BMP
Scale
AS NOTED

Drawing Name
FIRST AND SECOND FLOOR PLANS - WORK AREAS 'AC' & 'C'

Revisions
No. Date Description
1 10.10.25 NJ DCA SUBMISSION
01.15.26 ADDENDUM 1

Drawing Number

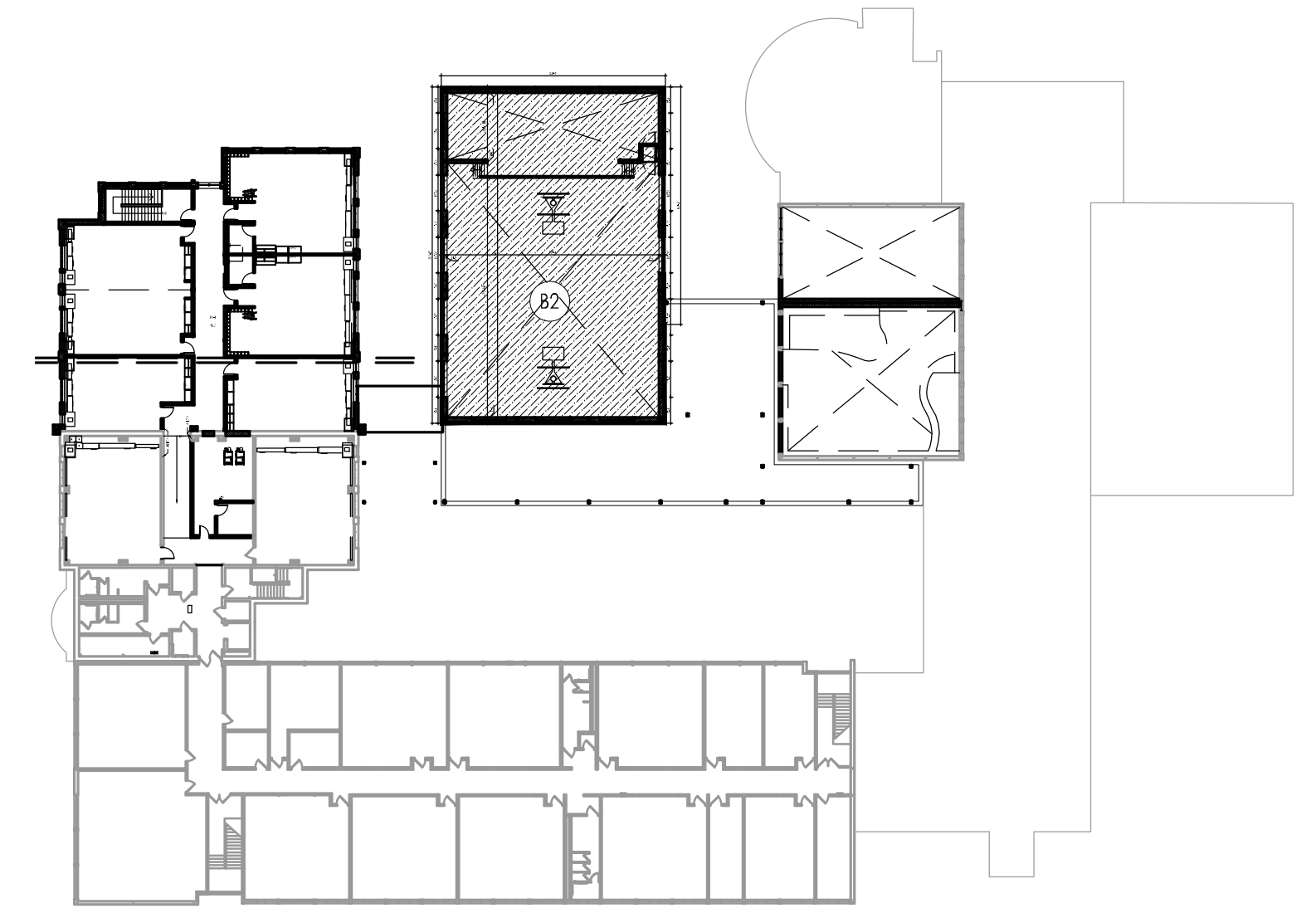
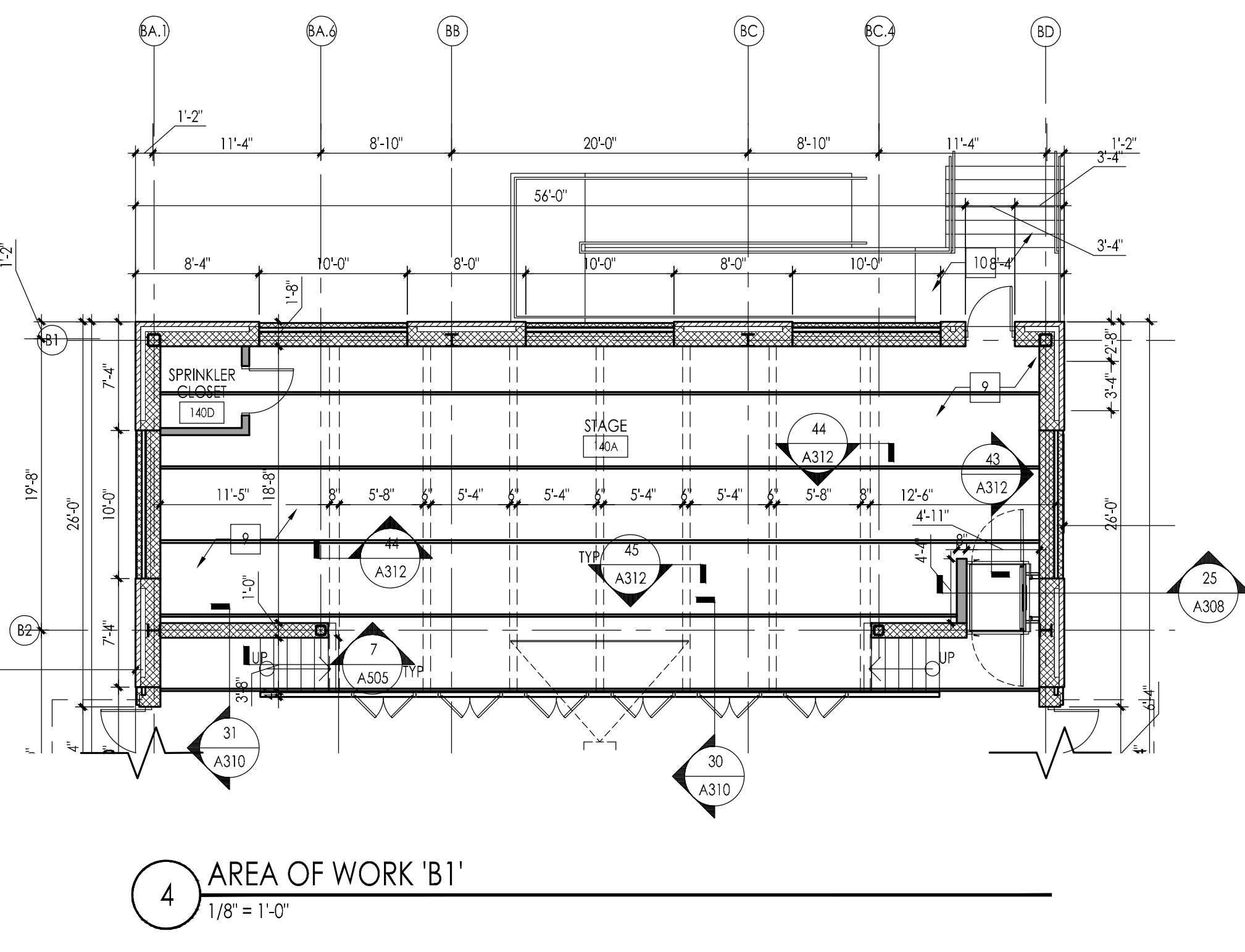
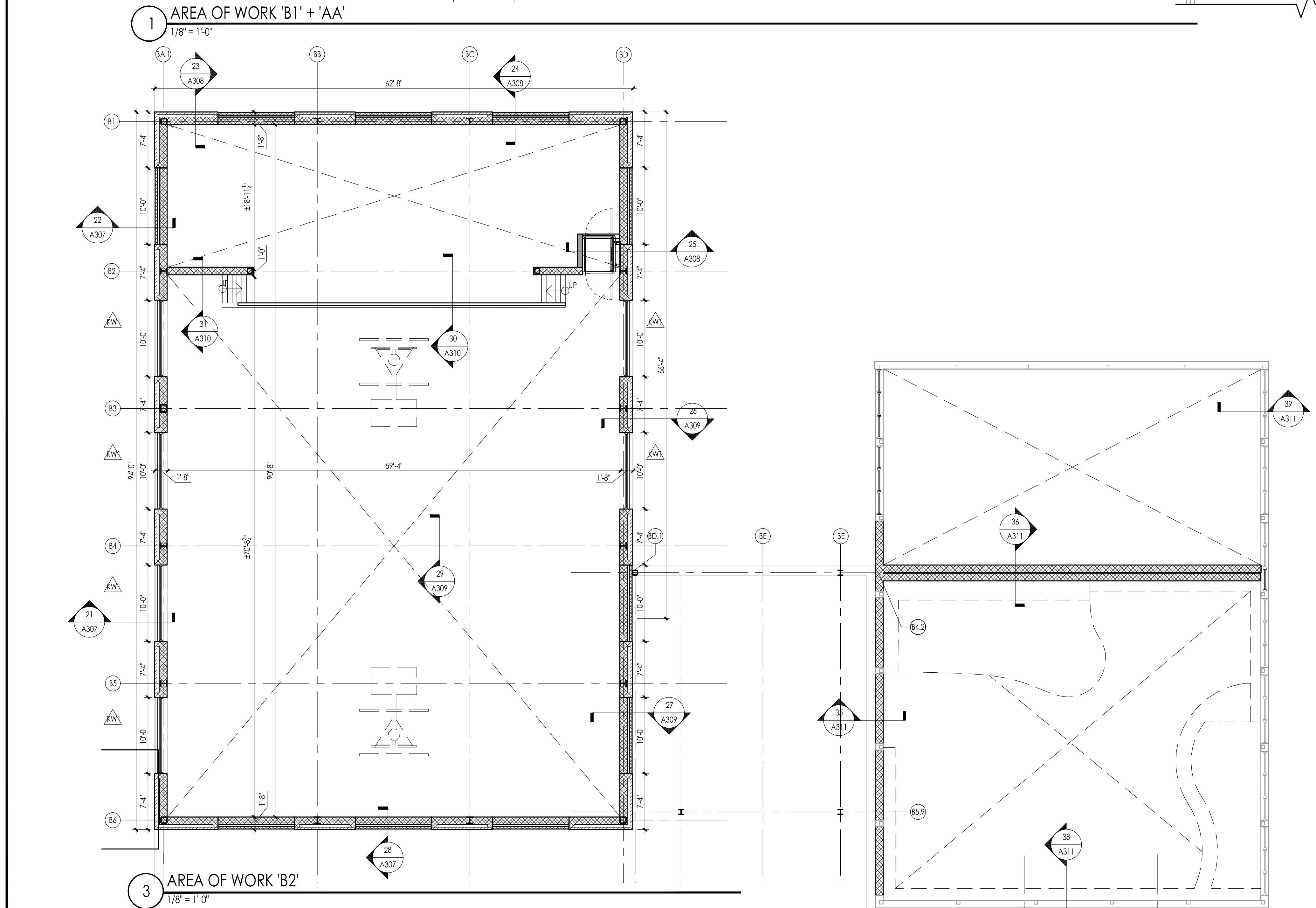
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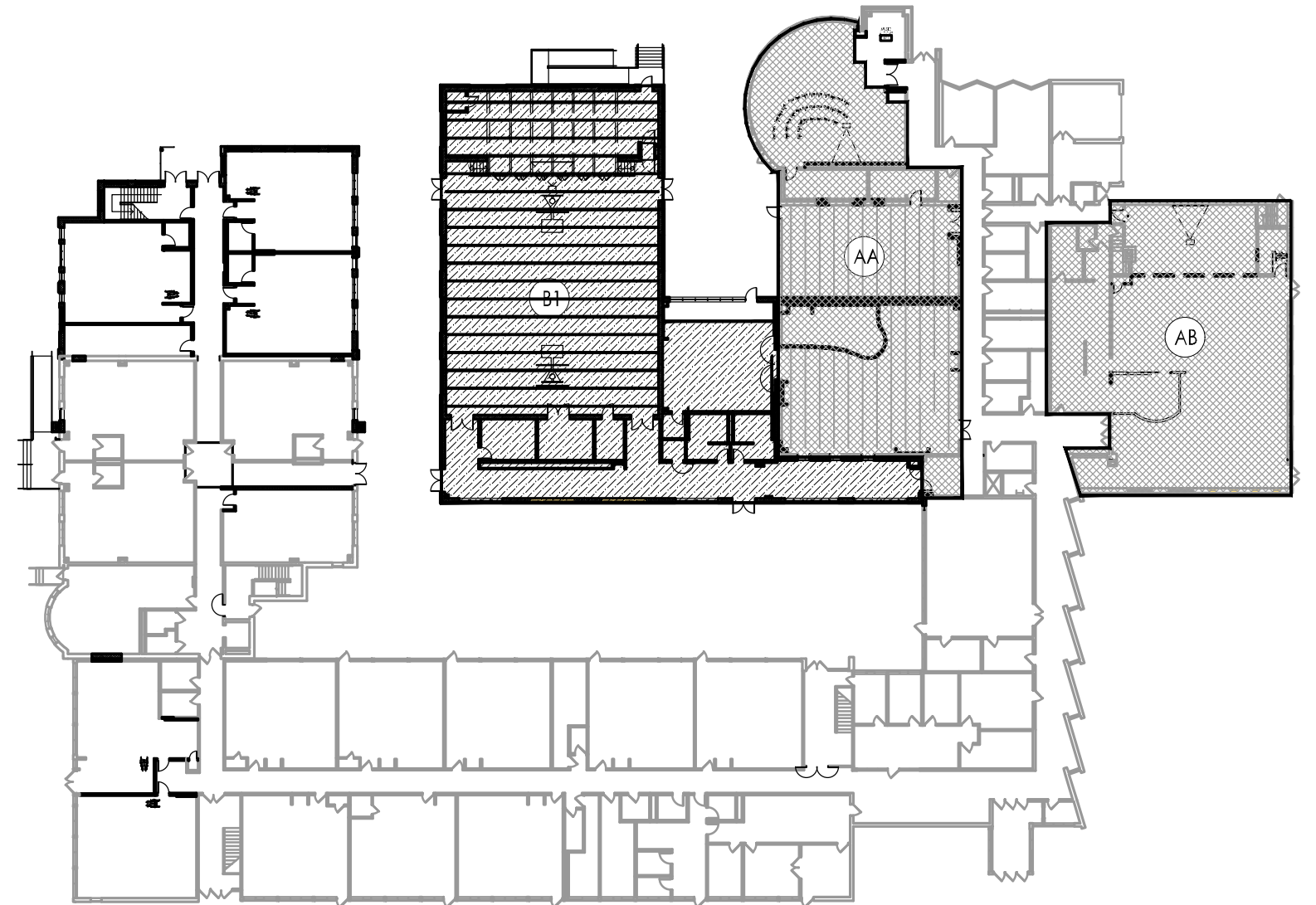
- PLAN LEGEND**
- BRICK
 - NEW CMU PARTITION
 - NEW GYPSUM BOARD PARTITION - MTL STUDS (SEE FLOOR PLAN OR WALL SECTIONS FOR DEPTH @ 16\"/>
 - NEW FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (CMU WALL) - SEE DETAIL 7 / G002
 - EXISTING FIRE EXTINGUISHER TO REMAIN
 - NEW / EXISTING 2-HOUR RATED FIRE WALL
 - NEW / EXISTING 1-HOUR RATED CORRIDOR FIRE PARTITION
 - NEW FIRE RATED WALLS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNIT (CMU) PER UL DES 1953 FOR 8\"/>
- PLAN NOTES**
- SEE 'PROJECT GENERAL NOTES' ON DRAWING G002.
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 - ALL EXPOSED EXTERIOR STEEL UNITS SHALL BE PAINTED GALVANIZED STEEL.

- FLOOR PLAN & PICTURE KEYNOTES**
- NEW EXISTING MECHANICAL UNIT VENTILATOR (CURVE COORDINATE W/ MECHANICAL DRAWINGS).
 - LINE OF EXISTING EXTERIOR WALL BELOW.
 - RECESSED AED CABINET. REFER TO DETAILS ON G003.
 - RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAILS ON G003.
 - IN RILL UNLINED OPENING IN EXISTING WALL WITH CMU BLOCK, SEE & THICKNESS TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE WIRELESS CARD READER. REFER TO DOOR SCHEDULE FOR HARDWARE TYPE & ELECTRICAL DRAWINGS FOR DETAILS.
 - RECESSED BOTTLE FILLING STATION. COORDINATE W/ PLUMBING DRAWINGS.
 - 9\"/>
 - UNEXCAVATED SLAB ON GRADE. REFER TO A300 SERIES DRAWINGS FOR DETAILS.
 - CONCRETE STAIRS & RAMP. REFER TO A300 SERIES DRAWINGS FOR DETAILS.
 - AREA OF REFUGE. PROVIDE TWO WAY COMMUNICATION. REFER TO ELEC. DRAWINGS. PROVIDE SIGN TYPE 'S'. REFER TO SIGN TYPES ON A301.
 - RECESSED FIRE HOSE CABINET. REFER TO PLUMBING DRAWINGS FOR DETAILS.
 - COMMEMORATIVE PLAQUE. REFER TO DETAIL 3/A102.
 - ALUMINUM SHIP'S LADDER. REFER TO 47/A312 AND SPECIFICATIONS.
 - ALUMINUM GUARD RAILING SYSTEM. REFER TO 16/A303.
 - ELECTRICAL/MECHANICAL PANELS. REFER TO ELEC./MECH. DRAWINGS.
 - PROVIDE SIGN TYPE #2 AT BARRIER-FREE TOILET COMPARTMENTS. REFER TO SIGN TYPES ON A301.
 - PROVIDE SIGN TYPE #27 INSIDE OF STAIRWELL AT AREA OF REFUGE LOCATIONS. REFER TO SIGN TYPES ON A301.

- BUILDING A: EXISTING TO REMAIN
- BUILDING A: ALTERATION/RENOVATIONS
- BUILDING B: ADDITION/RENOVATION
- BUILDING C: ADDITION/RENOVATION



SECOND FLOOR - KEY PLAN
N.T.S.



FIRST FLOOR - KEY PLAN
N.T.S.

NJ/CA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ-31401700001 PA-BAT 2203X
GEORGE R. DUTHE JR., AIA, PP
NJ-31401700001 PA-BAT 2203X
JASON J. DUBOWITZ, AIA
NJ-31401700001 PA-BAT 2203X
STEVEN W. SCHREIER JR., AIA, LEED AP BD-C
NJ-31401700001 PA-BAT 2203X

FVH D P C . C O M

Corporate: 1515 Lower Ferry Road
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Pennsylvania: 140 Whitaker Avenue
Mont Clare, Pennsylvania 19453

Architect Date

Project Name
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Scale
AS NOTED

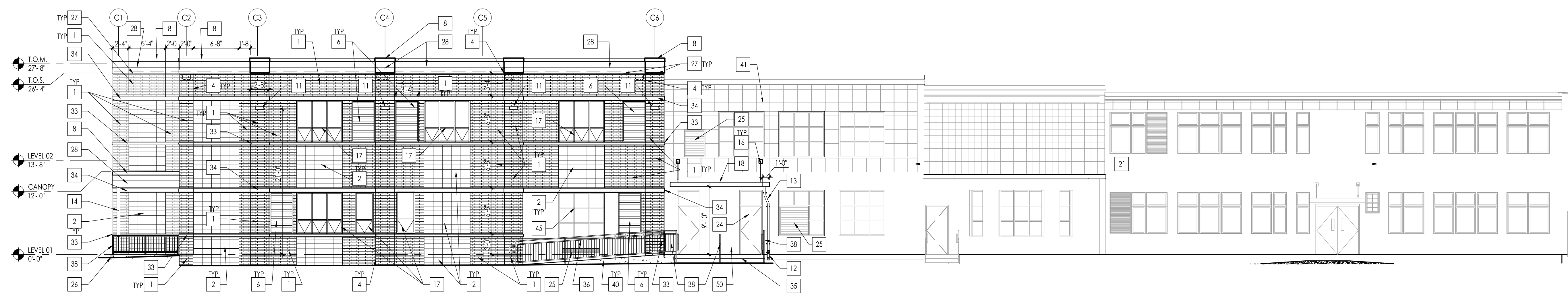
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FIRST AND SECOND FLOOR PLANS - WORK AREA 'AA', 'AB' & 'B'

Revisions

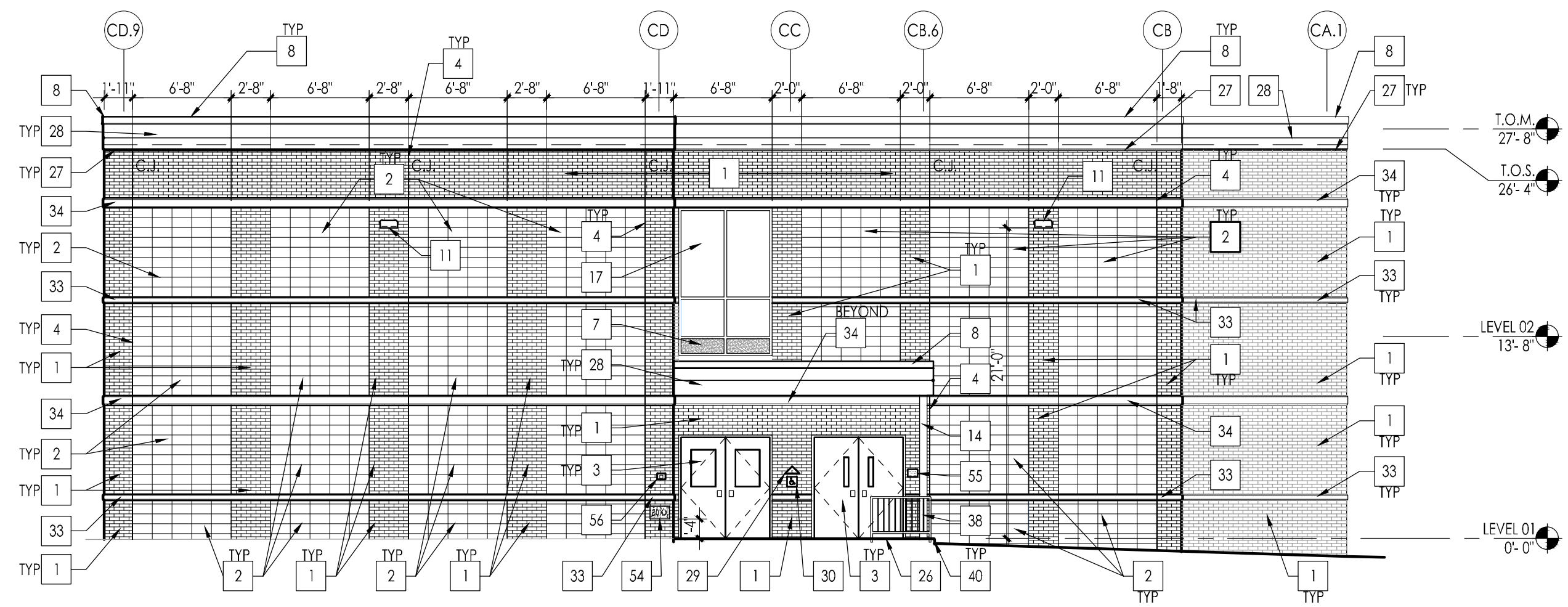
No.	Date	Description
1	10.10.25	NJ DCA SUBMISSION
	01.15.26	ADDENDUM 1

Drawing Number

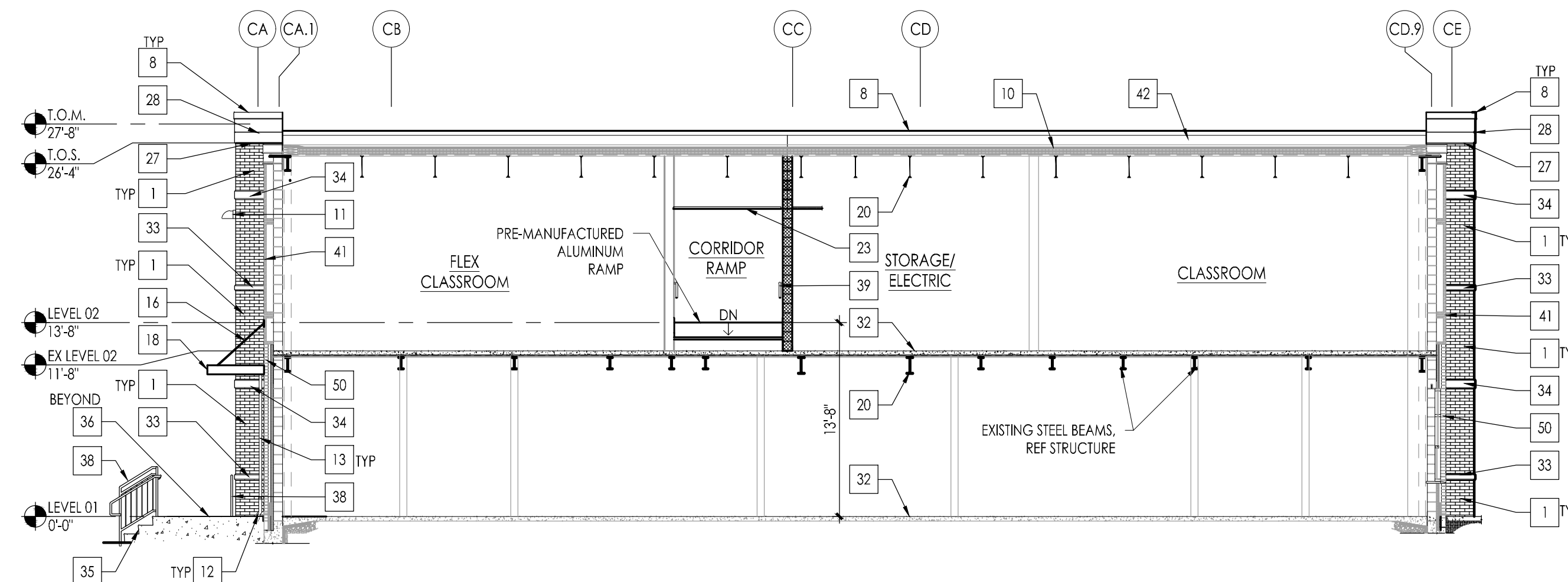
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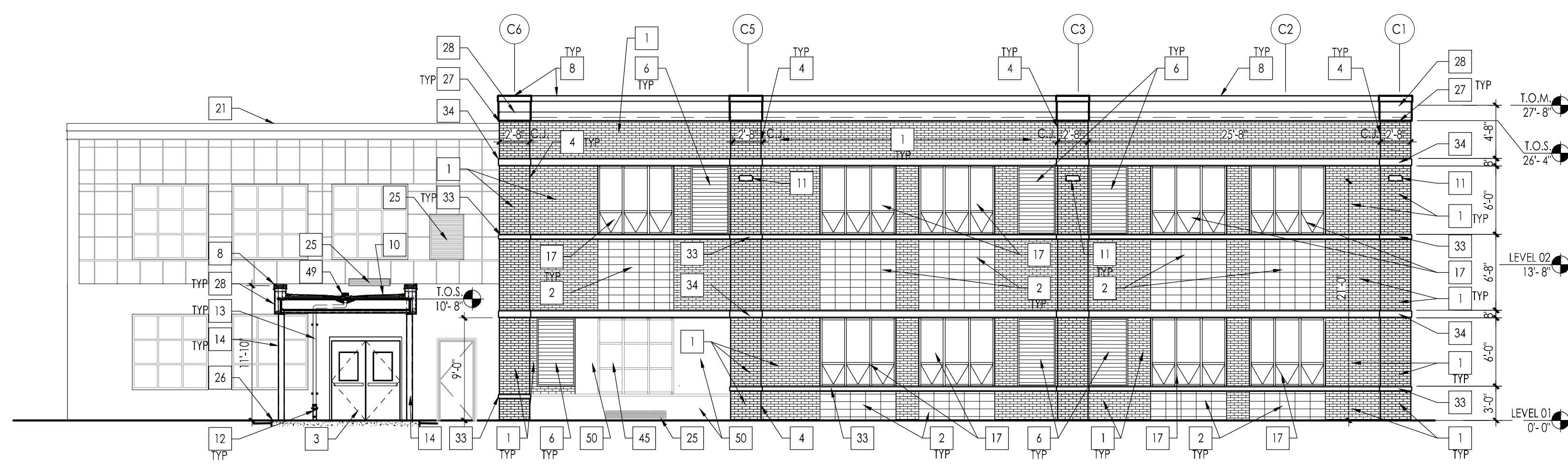
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1/8"=1'-0"



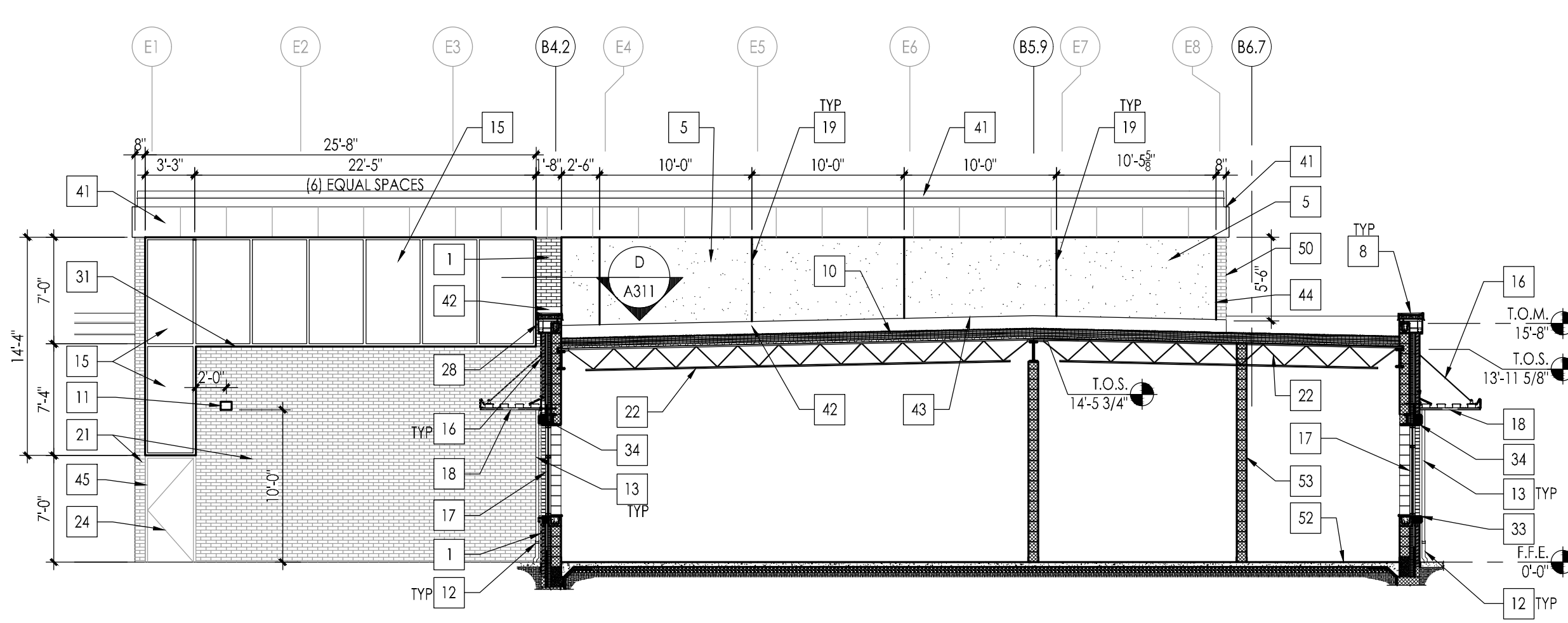
2 EXTERIOR ELEVATION
1/8"=1'-0"



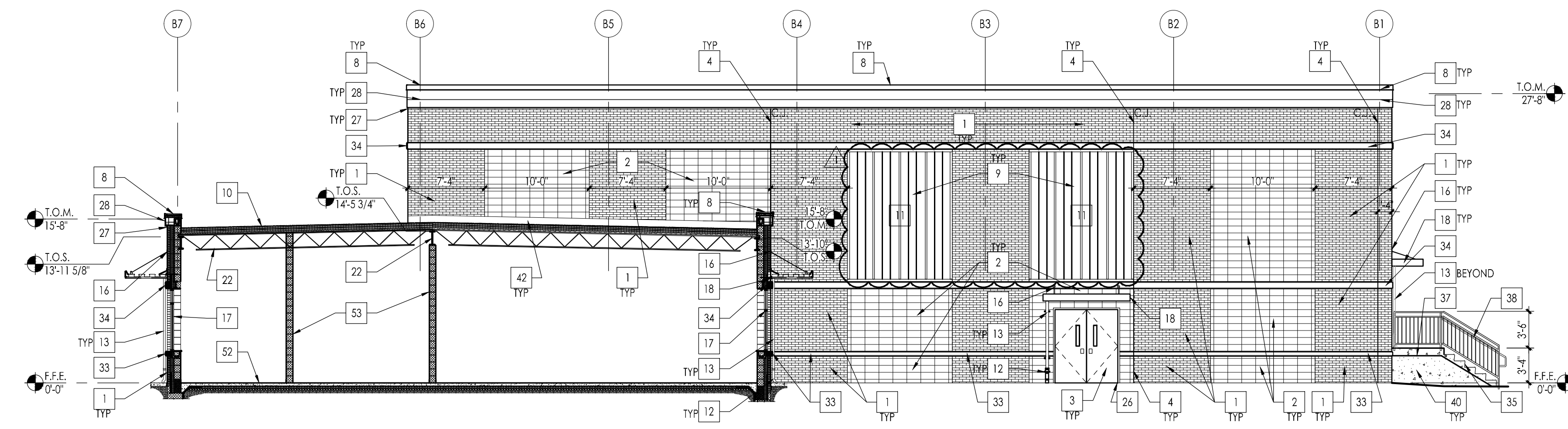
3 EXTERIOR (SOUTH) ELEVATION
1/8"=1'-0"



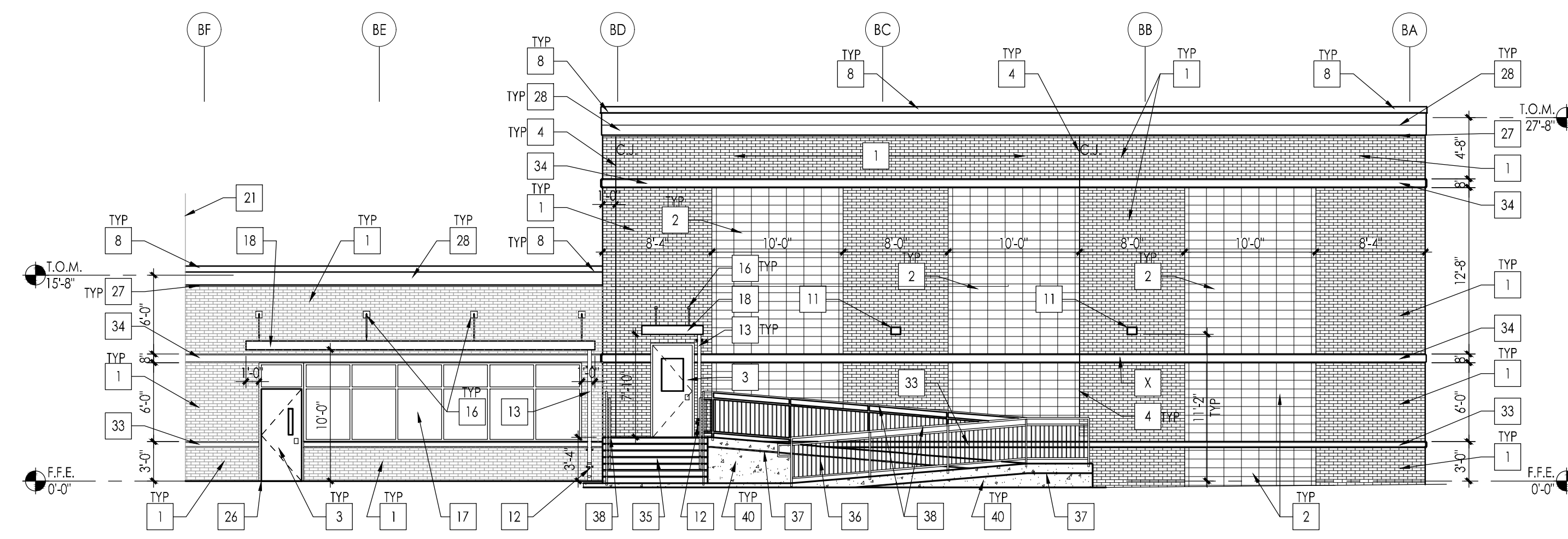
4 EXTERIOR ELEVATION
1/8"=1'-0"



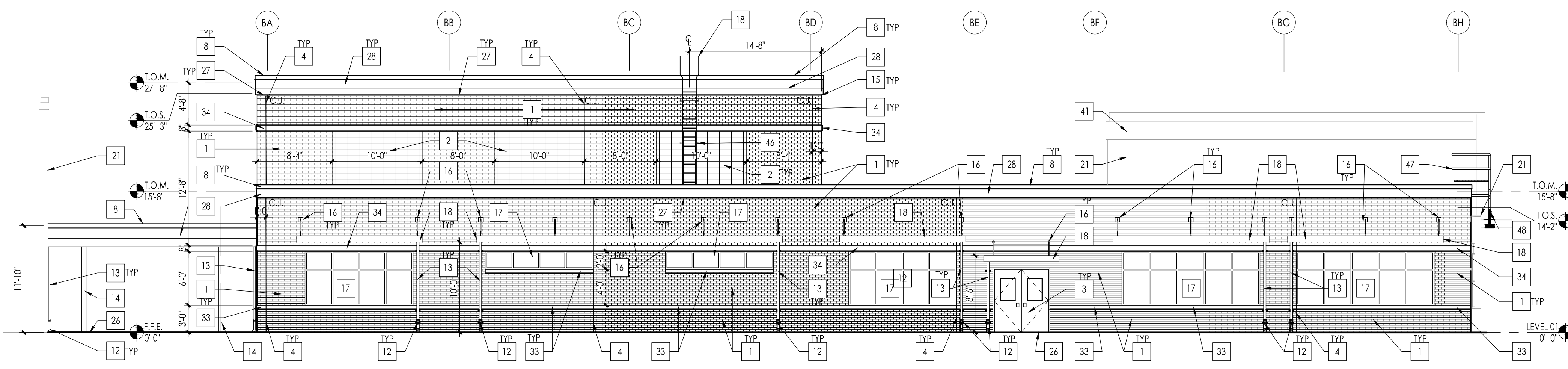
5 EXTERIOR ELEVATION
1/8"=1'-0"



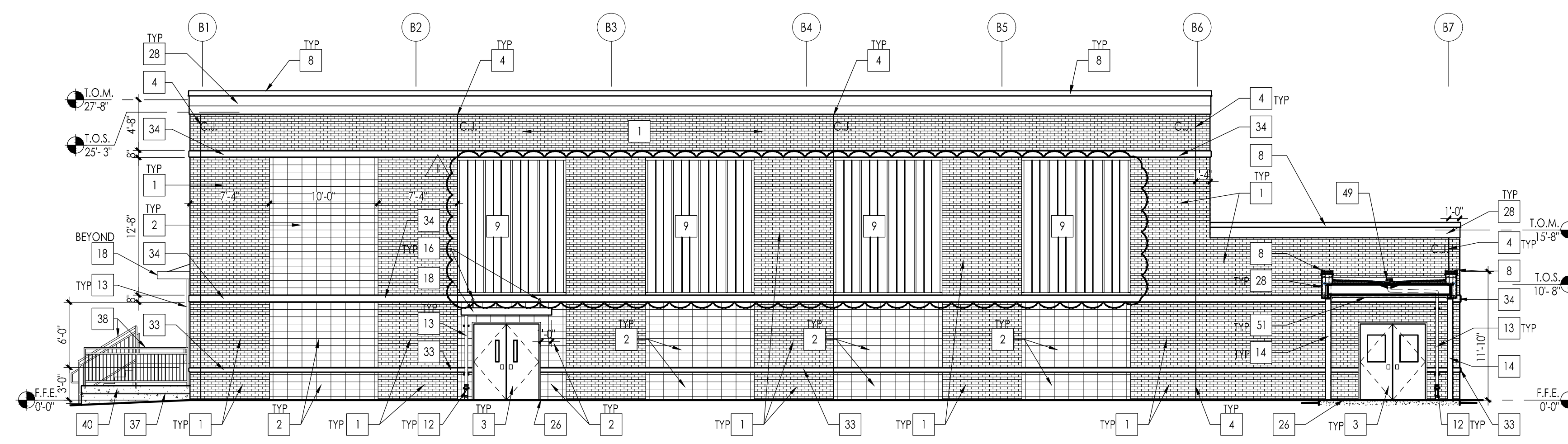
6 EXTERIOR ELEVATION
1/8"=1'-0"



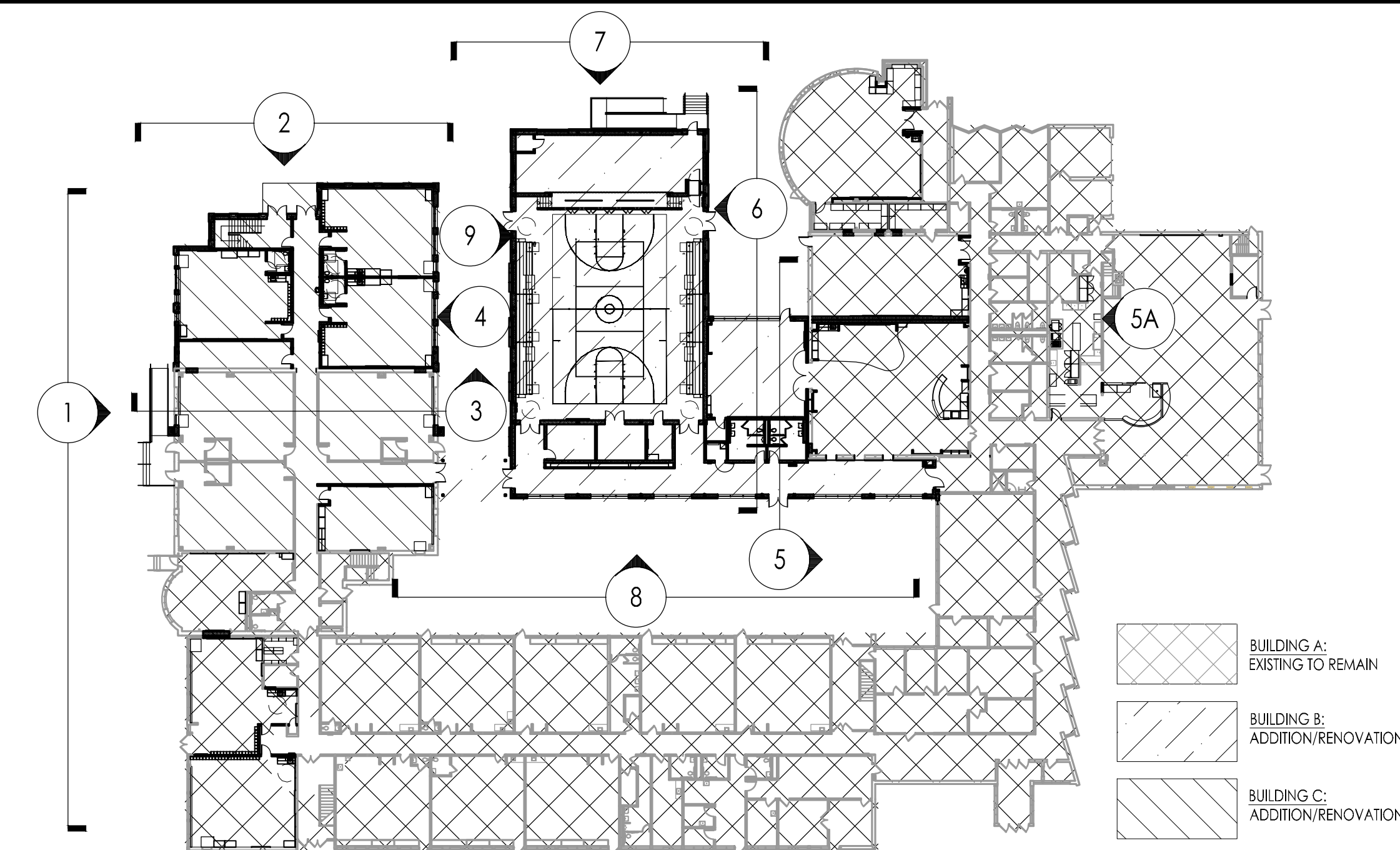
7 EXTERIOR ELEVATION
1/8"=1'-0"



8 EXTERIOR ELEVATION
1/8"=1'-0"



9 EXTERIOR ELEVATION
1/8"=1'-0"



KEY PLAN
N.T.S.

KEYNOTE FINISH LEGEND	
1	4" BRICK VENEER, RUNNING BOND
2	4" ARCHITECTURAL CLAW VENEER, STACKED BOND WITH EQUAL PIECES ON BOTH SIDES
3	FRP DOOR IN ALUMINUM FRAME, REF. DOOR SCHEDULE
4	MASONRY CONTROL JOINT, REF. 31/G003
5	EXTERIOR INSULATION FINISH SYSTEM, EPS
6	MECHANICAL LOUVER, REF. A602 AND MECHANICAL SHEETS
7	INSULATED METAL PANEL, MATCH CURTAIN WALL
8	PRE-FINISHED METAL COPING COVER, REF. 1(A109 AND D/A304)
9	TRANSLUCENT FRIGGLASS INSULATED PANEL SYSTEM WITH INTEGRATED INSULATED ALUMINUM PANEL SYSTEM, REF. ALUMINUM STOREFRONT AD KALWAL FRAMES, REF. SHEET A601
10	INDICATES ROOF ASSEMBLY, REF. A108 FOR ROOF TYPE ASSEMBLIES
11	EXTERIOR WALL PACE LIGHTING, REF. ELECTRIC
12	RAINWATER CONDUCTOR ROOF, REF. 28(A109 AND CIVIL FOR EXACT LOCATION
13	20ST ALUMINUM DOWNROUT WITH LEADER STRAPS, MATCH PER MANUFACTURED CANOPES
14	EXPOSED STEEL TUBE COLUMN PAINTED, REF. STRUCTURE
15	ALUMINUM STOREFRONT SYSTEM, REF. A601
16	CANOPY SUPPORTS AND ESCUTCHEON PLATE PER MANUFACTURER, COLOR SELECTED BY ARCHITECT
17	ALUMINUM WINDOW SYSTEM, SEE WINDOW TYPES, A601 (TYP.)
18	PRE-MANUFACTURED OVERHEAD CANOPY WITH SUPPORT, REF. ELECTRIC FOR CANOPES WITH LIGHTS, COLOR SELECTED BY ARCHITECT
19	EPS CONTROL JOINT - SEE DETAIL B/A310 (TYP.)
20	EXISTING STRUCTURAL STEEL TO REMAIN
21	EXISTING BUILDING TO REMAIN
22	STRUCTURAL STEEL, REF. STRUCTURE
23	NEW CEILING AT RAMP AREA, REF. CEILING PLAN
24	EXISTING DOOR IN EXISTING FRAME TO REMAIN
25	EXISTING MECHANICAL LOUVER TO REMAIN, REF. MECHANICAL
26	FROST FREE CONCRETE STOOP, REF. STRUCTURE
27	2" PRE-FINISHED METAL BRICK BOX TRIM WITH HEAMED EDGE, MATCH SCOTT
28	PRE-FINISHED COMPOSITE ALUMINUM PANEL SYSTEM FASCIA
29	TRUSS CONSTRUCTION EMBLEM SIGN, SIGN TYPE 21-SEE SIGN TYPES ON A602, FINAL LOCATION TO BE DETERMINED BY ARCHITECT (TYP.)
30	BARRIER FREE SIGN TYPE 1-SEE SIGN TYPES ON A601, FINAL LOCATION OF SIGN TO BE DETERMINED BY ARCHITECT
31	PRE-FINISHED ALUMINUM SILL WITH HEAMED EDGE, MATCH STOREFRONT, REF. 31/A602
32	EXISTING CONCRETE FLOOR, REF. ROOM FINISH SCHEDULE FOR NEW FINISHES IN THIS AREA
33	CAST STONE SILL, REF. A-A/303 AND A-A/303
34	CAST STONE SILL, REF. A-A/303 AND A-A/303
35	CONCRETE STAIR LANDING AND GUARDRAIL, REFER TO A504 FOR PLANS AND DETAILS
36	CONCRETE RAMP WITH LANDINGS AND HANDRAILS, REFER TO A503 SERIES DRAWINGS FOR DETAILS
37	REVEAL AT CONCRETE STAIRS AND RAMP WALLS, REF. 16/A504
38	ALUMINUM GUARDRAIL AND RAILING SYSTEM, REFER TO A503 SERIES DRAWINGS FOR DETAILS
39	WALL MOUNTED ALUMINUM HANDRAIL, REFER TO A503 SERIES DRAWINGS FOR DETAILS
40	SMOOTH TROWEL FINISH ON ALL EXPOSED VERTICAL CONCRETE WALL SURFACES, TYP.
41	EXISTING METAL PANEL SYSTEM TO REMAIN
42	THRU-WALL ROOF FLASHING, REF. ROOF PLAN
43	EPS STARTER TRACK WITH WEEPING SYSTEM, REF. WALL SECTIONS
44	CONTINUOUS SEALANT AND BACKER ROD, ALL SIDES, COLOR SELECTED BY ARCHITECT
45	EXISTING STOREFRONT TO REMAIN, PATCH AND REPAIR ANY DAMAGE FROM DEMOLITION AND OR NEW CONSTRUCTION IN THIS AREA
46	ROOF ACCESS LADDER, REF. 1(A110)
47	STEEL CROSS-OVER LADDER, REF. 2(A110)
48	LADDER SUPPORT STATIONCHON IN EXISTING ROOF, REF. A110
49	ROOF DRAIN, REF. ROOF PLAN
50	EXISTING BRICK VENEER TO REMAIN, PATCH AND REPAIR IN LOCATIONS DAMAGED FROM DEMOLITION AND OR NEW WORK IN THIS AREA
51	METAL SOFFIT SYSTEM, REF. WALL SECTIONS
52	CONCRETE FLOOR ON CLEAN COMPACTED FILL, REF. 2(A103 FOR ADDITIONAL INFORMATION
53	CLAW WALL PARTITIONS, REF. PARTITION TYPES
54	DATE STONE - REF. 1(A601)
55	AREA OF REFUGE LOCATION SIGN, REF. SIGNAGE TYPES, SHEET A601
56	HIGH SECURITY LOCK BOX - SEE SPECIFICATION, LOCATION TO BE DETERMINED BY ARCHITECT

NJ DCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTHE JR., AIA, PP
JASON J. DUBOWICH, AIA
FRANKLIN W. SCHREIBER JR., AIA, LEED AP BD-C
16-00000001-174-00000001

FVHD
Frayk Velez Hopkins Duthie P.C.
Corporate: 1515 Lower Ferry Road
Trenton, New Jersey 08628
Pennsylvania: 140 Whitaker Avenue
Mont Clare, Pennsylvania 19403
F.V.H.D.P.C. - C.O.M.

Project Name
Addition and Renovations to Community Park Elementary School

Project Owner Name
Princeton Public Schools

Project Location
372 Witherspoon St, Princeton, NJ 08542

Project Number
5516C
Project Date
10.10.2025
Checked By
GRD
Drawn By
BMP
Scale
AS NOTED

Drawing Name
EXTERIOR ELEVATIONS

Revisions
No. Date Description
1 10.10.25 NJ DCA SUBMISSION
01.15.26 ADDENDUM 1

Drawing Number
A201

7001

MECHANICAL ABBREVIATIONS			
AF	AFTER FINISHED FLOOR	MC	MECHANICAL COMPACTOR
AD	ACCESS DOOR	MOD	MODER OPERATED DAMPER
AT	AUTOMATIC TEMPERATURE CONTROLS	OD	OUTDOOR AIR
B	BACKSIGHT DAMPER	OAI	OUTDOOR AIR INTAKE
BOD	BUILDING OF DAMPER	OC	ON CENTER
BS	BOTTOM OF MECHANICAL SYSTEM	OED	OPEN ENDED CUT
BOP	BOTTOM OF PIPE	PC	PUMPED CONDENSATE
CD	CEILING DIFFUSER	RA	RETURN AIR
C	CLEANOUT	RP	RADIANT PANEL
CFM	CUBIC FEET PER MINUTE	RR	RETURN GRILLE
D	DIAMETER	R	REGISTER
E	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SC	SUPPLY GRILLE
EC	ELECTRICAL CONNECTOR	SR	SUPPLY REGISTER
EG	EXHAUST GRILLE	TD	TRANSFER DUCT
ER	EXHAUST REGISTER	TG	TRANSFER GRILLE
FO	FLAT OVAL	WMS	WIRE MESH SCREEN
IO	INSTALLATION AND OPERATION MANUAL	WR	WALL GRILLER

DO NOT SCALE FROM THESE DRAWINGS.

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN CONFLICT WITH THE ABOVE. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.

2. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON P/CAD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE CONTRACTOR'S KNOWLEDGE AND ARE INVALID.

3. REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

5. UPON CONTRACT AWARD, CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY TO SCHEDULE ANY NECESSARY UTILITY LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY UPDATES, SECURE ALL PERMITS AND INSPECTIONS.

6. ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY CO. AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED WORKING HOURS. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.

7. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. ANY SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.

8. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

9. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP. EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.

10. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. TWO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. IF THERE IS ANY DISCREPANCY, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.

11. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR OR OTHER BID DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER PRIOR TO BID SUBMISSION.

12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OR BIDS IN WRITING.

13. THE CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED PLUMBING, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BE SUBMITTED WITH THE BID. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE AND REFER TO THROUGHOUT THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. COORDINATION AND ACTUAL CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND FULLY COORDINATED INSTALLATION.

14. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS PERTAINING TO THE HVAC SYSTEMS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, PARTS, SUPPLIES AND LABOR TO BALANCE ALL HVAC EQUIPMENT TO OWNERS' SATISFACTION.

15. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USE OF THE BUILDING.

16. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND THE OWNER IMMEDIATELY.

17. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.

18. CONTRACTORS WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING INSTALLED ARE SUBJECT TO MODIFICATION. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.

19. WORK PERFORMED INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS AND/OR OTHER AREAS. IF ANY CONDITIONS ARE NOT AS IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.

20. DRAWINGS ARE DIAGNOSTIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.

21. DUCTING AND PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PLACES, BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING THE SYSTEMS TO BE INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.

22. THAT ACCESS, CLEARANCE, HEIGHTS AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS.

23. ARCHITECTURAL DRAWINGS FOR CHASE AND SPLIT FLOORS TO COORDINATE ALL EXPOSED DUCTWORK & PIPE ROUTING.

- [illegible]

WILLIAM D. HOPKINS III, AIA, LEED AP NJ-21401700000 PA- 84012300X GEORGE R. DUTHIE JR., AIA, PP NJ-21401298200	JASON J. DUBOWITZ, AIA NJ-21401978800 PA- 8446009 STEPHEN W. SCHREYER JR., AIA, LEED AP BD+C NJ-21402030010 PA- 8640465	10/10/25 Date
Architect		

Project Name	Addition and Renovations to Community Park Elementary School
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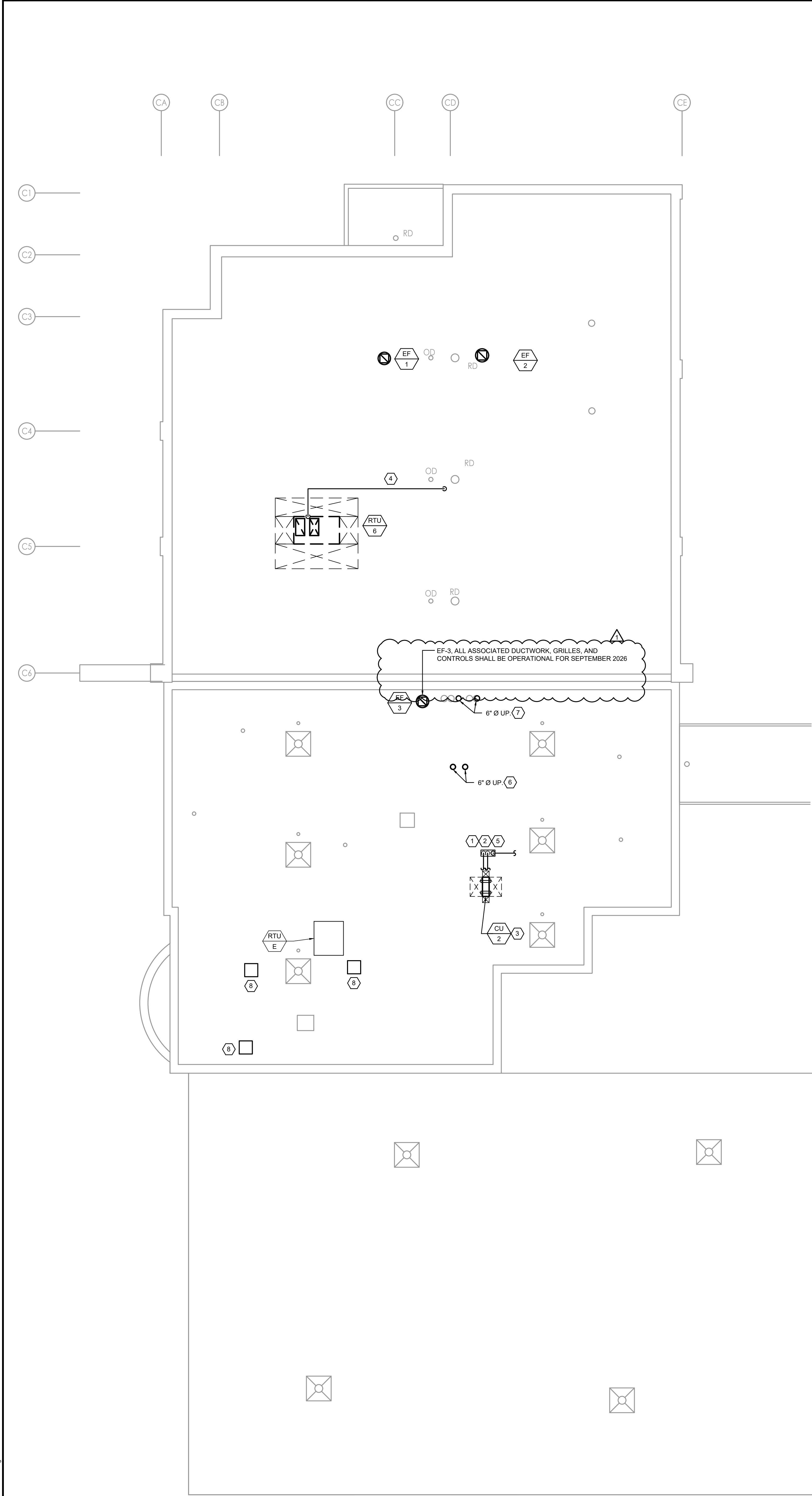
Project Location
372 Witherspoon St, Princeton, NJ 08542

Drawing Name

MECHANICAL LEGEND, ABBREVIATIONS & GENERAL NOTES

Drawing Number
M1.0

10/25/2025 09:00:00 - Princeton Public Schools - Community Park Elementary School - M6.1.dwg



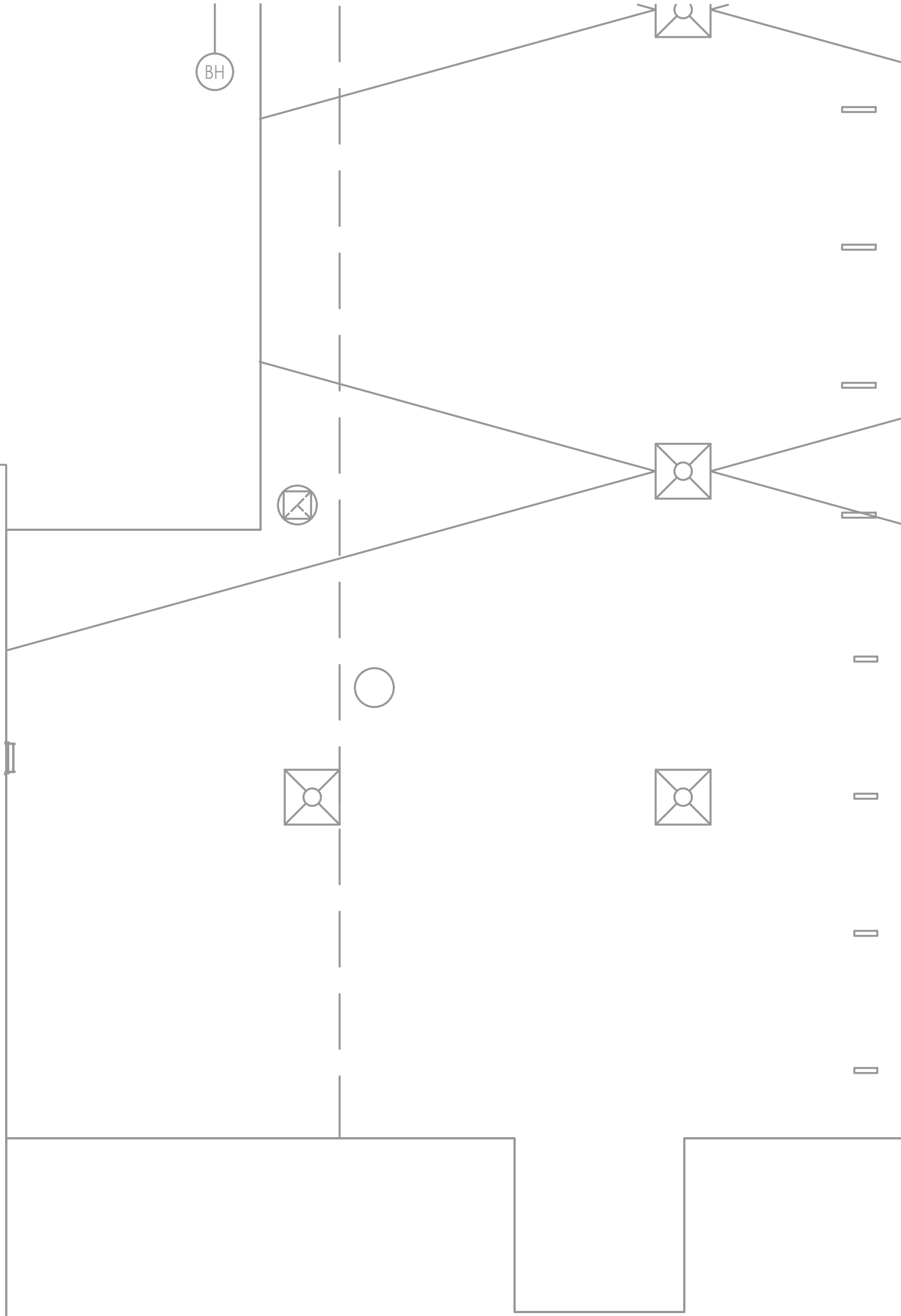
ROOF PLAN - BLOCK B
SCALE: 1/8" = 1'-0"

SHEET NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR NOTES AND DETAILS PERTAINING TO ROOFING, STRUCTURAL, GENERAL CONSTRUCTION, ETC.
- REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL. MATCH EXISTING ADJACENT SURFACES.
- PROVIDE AND INSTALL METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED THROUGH ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL CLEAN UNIT, ALL COILS AND REPLACE FILTERS.
- IF UNITS ARE RUNNING DURING ANY PHASE OF CONSTRUCTION CONTRACTOR SHALL REPLACE FILTERS WEEKLY.

KEY NOTES

- REFRIGERANT PIPING - SUCTION & LIQUID or SUCTION & LIQUID/HOT GAS or SUCTION, LIQUID & HOT GAS. SIZE AND ROUTING AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTS AS REQUIRED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- PROVIDE METAL PIPE ENCLOSURE SYSTEM ON ALL EXPOSED PIPING. PROVIDE MINIMUM 2 COATS PRIMER AND 2 COATS OF INTERIOR GRADE PAINT, COORDINATE WITH ARCHITECT FOR COLOR SELECTION. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- EQUIPMENT/DUCT MOUNTING RAILS WITH RUST RESISTANT UNISTRUT CRADLE FRAMING AROUND ENTIRE PERIMETER. HEIGHT AS REQUIRED TO MAINTAIN MINIMUM 18" BOTTOM OF DUCT ABOVE ROOF. LOCATE SUPPORTS MAXIMUM OF 96" ON CENTER AND AT EACH DIRECTION CHANGE. SEE DETAILS FOR ADDITIONAL INFORMATION.
- FULL SIZE CONDENSATE DRAIN WITH MINIMUM 2" DEEP TRAP. MAINTAIN MINIMUM PITCH. PIPE TO NEAREST ROOF DRAIN. MAINTAIN MINIMUM FITCH.
- PROVIDE & INSTALL ROOF PORTAL. PATE CO OR EQUAL. PROVIDE SEPARATE BOOT FOR EACH PIPE. PROVIDE ADDITIONAL BOOTS FOR ELECTRICAL POWER AND CONTROL CONDUITS. DO NOT PASS MORE THAN (1) PIPE THRU EACH NIPPLE TO FACILITATE PROPER SEALING.
- PROVIDE 6" COMBUSTION AIR INTAKE UP TO ROOF. TERMINATE DUCT 30" ABOVE ROOF WITH TEE FITTING AND WIRE MESH SCREEN (TYP-2).
- 6" EXHAUST VENT WITH AERCO EXHAUST MUFFLER UP THRU ROOF. HEATFAB SAF-T-VENT CI PLUS, TERMINATE MIN. 72" ABOVE ROOF OR 3' 0" ABOVE ANY MECHANICAL INTAKE WHEN LOCATED WITHIN 10' 0" HORIZONTALLY WITH VELOCITY CONE, RAIN CAP AND LATERAL SUPPORTS (TYP-2).
- PROVIDE AND INSTALL NEW WEATHER TIGHT CAP ON EXISTING CURB. SEE DETAIL FOR ADDITIONAL INFORMATION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.



KEY PLAN - ROOF
NOT TO SCALE



AMIN H. GOMAA, PE
PROFESSIONAL ENGINEER, NJ LIC. No. 240E0442100

NJDCA Electronic Release Stamp

WILLIAM D. HOPKINS III, AIA, LEED AP
NJ 7/4/01/00001 | PA - 84272326
GEORGE R. DUTHIE, JR., AIA, PP
NJ 7/4/01/07900
JASON J. DUBOWITZ, AIA
NJ 7/4/01/07900 | PA - 84266009
STEPHEN W. SCHREIER, JR., AIA, LEED AP BD-C
NJ 7/4/03/00101 | PA - 84265262

FVH D
Princeton
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road
Trenton, New Jersey 08628
Pennsylvania: 140 Whittaker Avenue
Mont Clare, Pennsylvania 19453
F V H D P C . C O M

10/10/25
Date
Architect

Project Name
Addition and
Renovations to
Community Park
Elementary School

Project Owner Name
Princeton Public
Schools

Project Location
372 Witherspoon
St, Princeton, NJ
08542

Project Number

5516C

Project Date

10.10.2025

Checked By

TK

Drawn By

VA

Scale

AS NOTED

Drawing Name

MECHANICAL
ROOF NEW WORK
PLAN - BLOCK B

Revisions

No.	Date	Description
10.10.25		NJ DCA SUBMISSION
01.15.26		ADDENDUM #1

Drawing Number

M6.1