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ADDENDUM NO. ONE
FERNDALÉ PUBLIC SCHOOLS
2017 SINKING FUND PROJECTS
SUMMER 2019 RENOVATION PROJECTS
Page 1 of 2 (write up only)

February 8, 2019

ADDENDUM NO. ONE to the plans and specifications for the FERNDALÉ PUBLIC SCHOOLS, 2017 SINKING FUND PROJECTS, SUMMER 2019 RENOVATION PROJECTS, Ferndale, MI, Architect's Project No. 181794, dated February 1, 2019.

The above plans and specifications are modified, supplemented or augmented as follows, and this ADDENDUM NO. ONE, is hereby made a part of the contract documents.

Drawings A1.0LE, A1.0UE, A1.1UH, A1.0H are being issued with this Addendum. Specification Section 08700 Finish Hardware, Door HW Index and Pre-Bid Meeting Sign-in Sheet are being issued with this Addendum.

ARCHITECTURAL SPECIFICATION ITEMS:

- ITEM NO. S1:** Refer to Pre-Bid Meeting Sign-in Sheet. (issued):
- a. Refer to attached Pre-Bid Meeting Sign-in Sheet.
- ITEM NO. S2:** Refer to Specification Section 08700 Finish Hardware (issued):
- a. Refer to Specification Section 08700 Finish Hardware and the Door HW Index being issued with this Addendum.

ARCHITECTURAL DRAWING ITEMS:

- ITEM NO. A1:** Refer to Drawing No. A1.0LE (re-issued):
- a. Refer to attached drawing no. A1.0LE for the locations of detail no. 2.
- ITEM NO. A2:** Refer to Drawing No. A1.0UE (re-issued):
- a. Refer to attached drawing no. A1.0UE for revised note no. 1.
- ITEM NO. A3:** Refer to Drawing No. A1.1UH (re-issued):
- a. Refer to attached drawing no. A1.1UH for location of typical detail no. 2.
- ITEM NO. A4:** Refer to Drawing No. A1.0H (re-issued):
- a. Refer to attached drawing no. A1.0H for revised New Work Note 29.

- ITEM NO. A5:** Refer to Drawing No. A5.1H (NOT re-issued):
- a. Refer to drawing no. A5.1H, Room Finish Schedule for rooms to receive new wall paint.

END OF ADDENDUM NO. 1

Cc: Dr. Dania Bazzi, Ferndale Public Schools
Jamie Stottlemyer, Ferndale Public Schools
File

SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.1 Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.

1.2 Work Included:

A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.

B. Related work:

1. Division 08410 - FRP/ALUMINUM HYBRID DOORS

C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:

1. Cabinet Hardware.
2. Signs, except as noted.
3. Folding partitions, except cylinders where detailed.
4. Sliding aluminum doors
5. Chain link and wire mesh doors and gates
6. Access doors and panels
7. Overhead and Coiling doors

1.3 Quality Assurance

A. Requirements of Regulatory Agencies:

1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.

2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.

B. Hardware Supplier:

1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. The distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant (AHC).

C. Electrified Door Hardware Supplier:

1. Shall be an experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
2. Shall prepare data for electrified door hardware, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this project.
3. Shall have experience in providing consulting services for electrified door hardware installations.

D. Pre-installation Meeting:

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1. Before hardware installation, General Contractor/Construction Manager will request a hardware installation meeting be conducted on the installation of hardware; specifically that of locksets, closers, exit devices, overhead stops and coordinators. Manufacturer's representatives of the above products, in conjunction with the hardware supplier for the project, shall conduct the meeting. Meeting to be held at job site and attended by installers of hardware for aluminum, hollow metal and wood doors. Meeting to address proper coordination and installation of hardware, per finish hardware schedule for this specific project, by using installation manuals, hardware schedule, templates, physical product samples and installation videos.
2. When any electrical or pneumatic hardware is specified this meeting shall also include the following trades/installers: Electrical, Security, Alarm systems and Architect.
3. Convene one week or more prior to commencing work of this Section.
4. The Hardware Supplier shall include the cost of this meeting in his proposal.

E. Manufacturer:

1. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

1.4 Submittals:

A. Hardware Schedule

1. Submit number of Hardware Schedules as directed in Division 1.
2. Follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule unless noted otherwise.

3. Schedule will include the following:
 - a. Door Index including opening numbers and the assigned Finish Hardware set.
 - b. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

- c. Hardware Locations: Refer to Article 3.1 B.2 Locations.
- d. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
- e. Hardware Description: Quantity, category, product number, fasteners, and finish.
- f. Headings that refer to the specified Hardware Set Numbers.
- g. Scheduling Sequence shown in Hardware Sets.
- h. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
- i. Electrified Hardware system operation description.
- j. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- k. Typed Copy.
- l. Double-Spacing.
- m. 8-1/2 x 11 inch sheets
- n. U.S. Standard Finish symbols or BHMA Finish symbols.

B. Product Data:

1. Submit, in booklet form Manufacturers Catalog cut sheets of scheduled hardware.
2. Submit product data with hardware schedule.

C. Samples:

1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.

D. Key Schedule:

1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
2. Submit as a separate schedule.

E. Electrified Hardware Drawings:

1. Submit elevation drawings showing relationship of all electrical hardware components to door and frame. Indicate number and gage of wires required.
 - a. Include wiring drawing showing point to point wire hook up for all components.
 - b. Include system operations descriptions for each type of opening; describe each possible condition.

F. Submit to General Contractor/Construction Manager, the factory order acknowledgement numbers for the various hardware items to be used on the project. The factory order acknowledgement numbers shall help to facilitate and expedite any service that may be required on a particular hardware item. General Contractor/Construction Manager shall keep these order acknowledgement numbers on file in the construction trailer.

1.5 Product Delivery, Storage, and Handling:

- A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

1.6 Where existing doors, frames and/or hardware are to remain, conditions, preparations and functions shall be field verified to confirm compatibility with specified hardware. Where any incompatibility is discovered, notify the contractor or construction manager immediately and provide a suggested solution based on industry standard business practices.

1.7 Warranties:

- A. Refer to Division 1 for warranty requirements.

- B. Special Warranty Periods:

- 1. Closers shall carry manufacturer's 30-year warranty against manufacturing defects and workmanship.
- 2. Locksets shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
- 3. Continuous gear hinges shall carry manufacturer's lifetime warranty to be free from defects in material and workmanship.
- 4. Balance of items shall carry a manufacturer's 1-year warranty against manufacturing defects and workmanship.

- C. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work.

PART 2 - PRODUCT

2.1 Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement

is mandatory whether various manufacturers are listed or not.

2.2 Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, it is understood that this is the owner's Building Standard and "no substitution" is allowed.

A. Hinges:

1. Furnish hinges of class and size as listed in sets.
2. Numbers used are Ives (IVE).
3. Equal products by Stanley and Hager are also acceptable.

B. Continuous Gear Hinge:

1. 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified). Manufacture to template, uncut hinges non-handed, pinless assembly, three interlocking extrusions, full height of door and frame, lubricated polyacetal thrust bearing, fasteners 410 stainless steel plated and hardened. All hinge profiles to be manufactured to template bearing locations, with standard duty bearing configurations at 5-1/8" spacing with a minimum of 16 bearings: and heavy duty at 2-9/16" spacing with a minimum of 32 bearings. Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12- 1/2" #3 Philips, flathead full thread at wood doors.
3. Furnish fire rated hinges "FR" at labeled openings.
4. Numbers used are Ives.
 - a. For Wood and Hollow Metal frames;
 - 1) Ives 224HD
 - 2) Equal products by Hager & Select will also be accepted.

- b. For Aluminum frames;
 - 1) Ives 112HD
 - 2) Equal products by Hager & Select will also be accepted.

C. Flush Bolts:

- 1. Constant Latching: metal doors:
 - a. Ives FB50 Series
 - b. Equal product of any B.H.M.A. member.
- 2. Constant Latching: wood doors:
 - a. Ives FB60 Series
 - b. Equal product of any B.H.M.A. member.
- 3. Manual - wood and metal doors:
 - a. Ives FB458 Series
 - b. Equal product of any B.H.M.A. member.
- 4. Dust Proof Strikes - furnish with all flush bolts, except at openings having thresholds:
 - a. Ives DP2
 - b. Equal product of any B.H.M.A. member.

D. Locksets and Latchsets - Mortise Type:

- 1. Locksets shall be manufactured from heavy gauge steel, minimum lockcase thickness 1/8", containing components of steel with a zinc dichromate plating for corrosion resistance.
- 2. Locks are to have a standard 2 3/4" backset with a full 3/4" throw two-piece stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
- 3. Lockcase shall be easily handed without chassis disassembly by removing handing screw on lockcase and installing in opposite location on reverse side. Changing of door hand bevel from standard to reverse hand shall be done by removing the lockcase scalp plate, and pulling and rotating the latchbolt 180 degrees.
- 4. Lock trim shall be through-bolted to the door to assure correct alignment and proper operation. Lever trim shall have external spring cage mechanism to assist in support of the lever weight. Thumb turns shall have "EZ" thumbturn equal to Schlage L583-363.
- 5. Function numbers are Schlage.
 - a. Schlage L9000

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6. Lockset Trim:
 - a. Schlage 06A
7. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond door frame trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors.
8. All lock functions shall be verified with the Owner prior to ordering any material. The supplier will include any related costs in their proposal.

E. Exit Devices:

1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
2. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. Touchpad shall extend a minimum of one half of the door width. All latchbolts to be deadlatching type, with a self-lubricating coating to reduce wear.
3. End-cap will be sloped to deflect any impact from carts and they shall be flush with the external mechanism case. End caps that overlap and project above the mechanism case are unacceptable. End cap shall utilize a two-point attachment to the mounting bracket.
4. Touchpad shall match exit device finish, and shall be stainless steel for US26, US26D, US28, US32, and US32D finishes. Only compression springs will be used in devices, latches, and outside trims or controls.
5. Plastic templates shall be included with each exit device to facilitate a quick, easy and accurate installation.
6. Strikes shall be roller type and come complete with a locking plate to prevent movement.
7. All rim and vertical rod exit devices shall have passed a 5 million(5,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.

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8. All mortise exit devices shall have passed a 10 million(10,000,000)cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
9. Provide cylinder dogging on panic exit hardware where noted in hardware sets.
10. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
11. Lever trim for exit devices shall be vandal-resistant type, which will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
12. Von Duprin 98 Series. Series and function numbers as listed in sets.
13. Trim:
 - a. As specified in sets.
 - b. Levers to match lockset design where specified.

F. Removable Mullion:

- a. Interior/Exterior, mullion is removable only through the use of building keys.
 - 1) Von Duprin KR4954
- b. Interior Doors - UL listed, Mullion is removable only through the use of building keys.
 - 1) Von Duprin KR9954

G. Push and Pull Hardware:

1. Push Plates: Ives 8200 Series 4 x 16 x .050 inches.
2. Push Bars: Von Duprin 330/350
3. Push-Pull Units: One inch round rod. Push: Straight push bar, Pull: 90 degree offset, 12 inch centers. Attach top post of pull back to back with latch stile end of push bar, bottom post of pull and hinge stile end of push bar with end caps.
4. Pull, Offset: One inch round rod, 90 degree offset, 12 inch centers.
5. Pulls: One inch round rod, straight 12 inch centers.
6. Pull Plates: Ives 8302-8 4 x 16 x .050 inches. 8" center.
7. Pull, Bi-Fold: Dummy Lever Trims. Levers to match lockset lever design.
8. Pull, Wire: 3/4 inch diameter, 6 inch centers.

9. Vandal Resistant Pulls: Ives VR900 Series. Stainless steel construction 0.120 inches thick.
10. Manufacturer: Provide push and pull hardware from any member of B.H.M.A.

H. Coordinator - Frame Stop Mounted:

1. Door coordinator shall prevent the active door from closing before inactive door. Stop mounted channel 1-5/8" x 5/8" steel tubing x length to suit door opening. Coordinator shall be UL listed. Furnish filler bars to fill gap between end of coordinator and inactive door frame. Furnish mounting brackets for all stop mounted hardware such as exit device strikes, door closer PA shoes, etc. Coordinators shall be prepared (cutout) at the factory for surface applied or concealed vertical rod panic devices if required.
2. Furnish with carry bar CB1 when required for proper operation.
 - a. Ives COR x length to suit.
 - b. Equal products of any BHMA manufacturer

I. Electric Strike:

1. Electric strikes shall provide remote release of latchbolts. They shall be designed for use with the type locks shown at each opening where required. Strikes will be UL Listed for Burglary-Resistant Electric Door Strike, and where required, shall be UL listed as electric strikes for Fire Doors or Frames. Faceplates shall be stainless steel with finish as specified for each opening. The locking components shall be stainless steel to resist damage and abuse.
2. Solenoids shall be of the continuous duty type for the voltage specified. Plug connectors will be furnished. Strikes shall have an adjustable backbox to compensate for misalignment of door and frame.
3. Numbers used in sets are Von Duprin.
 - a. Von Duprin 6000 series

J. Electric Power Transfer:

1. Transfer power from door frame to edge of door, UL listed R4504.

2. Von Duprin EPT

K. Closers:

1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 ½" in diameter, and double heat treated pinion shall be 11/16" in diameter with double D slab drive arm connection.
2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
3. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).
5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.
6. Closers will have Powder coating finish certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
8. LCN Series as listed in sets.

L. ADA Special Closers:

1. Where "Low Energy Power Operated Door" as defined by ANSI Standard A156.19 is indicated for doors required to be accessible to the disabled, provide electrically powered operators complying with the ADA requirements for opening force and time to close standards.
2. Full closing force shall be provided when the power or assist cycle ends.

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3. Modular design, adjustments easily accessible from the front, UL listed for use on labeled doors.
4. Shall have "Second Chance" function to accommodate momentary resistance, "Breakaway" function in the electronically controlled clutch, "Soft Start" motor control function and "Maintain Hold-Open Switch" to hold the door open at 90 degree.
5. Shall have built in 12V and 24V power supply for actuators, card readers, electric strikes and magnetic door locks, inputs for both swing and stop side sensors and available to accept either 120VAC or 220VAC input power. All wiring connections between operator modules made by easy-to-handle electrical connectors. Shall comply with both UL and NEC requirements for Class 1 and Class 2 wiring by providing separate conduits for each.
6. Shall have seven independent electronic adjustments to tailor the operator for specific site conditions. Opening speed, holding force at 90 deg., sequential trigger and time delay, hold-open time at 90 deg., opening force, clutch "breakaway" force setting, electric strike trigger and time delay.
7. Shall have separate and independent adjustments for back check, main speed and latch speed.
8. LCN Series as listed in sets.
9. Furnish actuators and other controls as shown in Hardware Sets.

M. Overhead Holders and Stops:

1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps, hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
 - a. Glynn-Johnson

N. Kick Plates:

1. Furnish .050 inches thick, beveled four sides, countersunk fasteners, 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
2. Any BHMA manufacturing product meeting above is acceptable.

O. Armor Plates:

1. Provide .050 inches thick, B4E, 36" x door width less 2" at single doors and 1" less door width at pairs. At exit devices provide height to bottom of exit device cases. At locksets, latchsets, or push pull latches, cut for rose or escutcheon. Bevel top edges of all plates.

P. Wall Stops:

1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction. Install with slope at top.
 - a. Ives WS33(X)
 - b. BHMA L12011 or L12021

Q. Wall Holders:

1. Products specified by series only; furnish strike length to exceed projection of all other hardware.
 - a. Ives WS40
 - b. Equal products of any BHMA manufacturer

R. Door Holding Magnets:

1. Electrically controlled, fail-safe, holds door open until current is interrupted.
2. Units will have 35 lbs of holding force.
3. Units will be "tri-voltage", 12VDC, 24VAC/DC & 120VAC.
4. Furnish model to hold door away from wall to allow for any trim or levers on pull side of door.
 - a. LCN SEM 7800 series

S. Thresholds:

1. 1/2" high - 7.5" wide. Cope at jambs.
2. Furnish full wall opening width when frames are recessed.
3. Cope in front of mullions if thresholds project beyond door faces.
4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
 - a. National Guard as listed in sets
 - b. Equal of Zero or Reese

T. Door Sweeps:

1. Surface Sweeps:
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese

U. Weather-stripping:

1. Apply to head and jamb stops.
2. Solid Bar stock all sides
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese

V. Meeting Stile Weather-stripping:

1. 2 Pc. Nylon brush type to seal gap between pairs of doors.
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese

W. Astragal:

1. Stainless steel, type 304, Finish 2B. 12 gauge 1-5/8 inch wide. #10 x 3/4" st. sheet metal screws.
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese

X. Astragal, Sound:

1. Overlapping type.
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese
2. Meeting stile type.

- a. National Guard as listed in sets
- b. Equal by Zero or Reese

Y. Sound Seal:

- 1. Adjustable type perimeter seal.
 - a. National Guard as listed in sets
 - b. Equal by Zero by Reese

Z. Lock Protector:

- 1. Lock protector shall eliminate gap between door and frame. No exposed fasteners on face of unit.
 - a. Ives LG series

AA. Automatic Door Bottoms:

- 1. Surface: Provide UL approved at all fire doors.
 - a. National Guard as listed in sets.
 - b. Equal by Zero by Reese

BB. Miscellaneous:

- 1. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.

CC. Fasteners:

- 1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.
- 2. **Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.**

2.3 Finishes:

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- A. Generally, Dull Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.

2.4 Templates and Hardware Location:

- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
- B. Furnish metal template to frame/door supplier for continuous hinge.
- C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.

2.5 Cylinders and Keying:

- A. All cylinders for this project will be supplied by one supplier regardless of door type and location.
- B. Provide a cylinder for all hardware components capable of being locked.
- C. Provide cylinder cores and keys "0" bitted for Owners keying. Provide keys and cores to match the existing Schlage Restricted system according to Owner's instructions. Provide minimum of two (2) keys per cylinder or as otherwise required by Owner.
- D. Provide cylinders with construction cores or keying for use during the construction period. The Owner's security department or representative will convert construction cores or keying to the final system.

PART 3 - EXECUTION

3.1 Installation

- A. General:

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1. Install hardware according to manufacturers installations and template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
2. Provide blocking/reinforcement for all wall mounted Hardware.
3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames will be drilled and tapped for machine screws.
4. Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
5. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keenform self-tapping. Use #13 or 3/16 drill for pilot.
6. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.
7. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.

B. Locations:

1. Dimensions are from finish floor to center line of items.
2. Include this list in Hardware Schedule.

<u>CATEGORY</u>	<u>DIMENSION</u>
Hinges	Door Manufacturer's
Standard	
Flush Bolt Levers	72" and 12"

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Standard	Levers	Door Manufacturer's
	Exit Device Touchbar	Per Template
	Deadlatch Cylinder with push-pull.	43" unless conflicting
	Deadlock MS Cylinder with push-pull.	43" unless conflicting
	Hospital Push-Pull	Manufacturer's Template
	Roller Latch	At Head
Pull	Push-Pull Units	42" to centerline of
Devices	Offset Pulls	Suitable for Exit
	Pulls - Flush Cup	46"
	Pulls (BTB)	46"
	Push-Pulls	46"
	Push Plates	52"
	Pull Plates	42"
	Wire Pulls	42"
	Wall Stops/holders	At Head
	Astragals	Pull side of active leaf
	Trim Protector Bars lever handle	Push side of door below
	Lock Protectors	Pull side of door

C. Field Quality Inspection:

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1. Inspect material furnished, its installation and adjustment, and instruct the Owner's personnel in adjustment, care and maintenance of hardware.
2. Locksets and exit devices shall be inspected after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
3. Closers shall be inspected and adjusted after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
4. A written report stating compliance, and also locations and kinds of noncompliance shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

D. Technical and Warranty Information:

1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor/Construction Manager shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor/Construction Manager during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.
2. Submit to General Contractor/Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

3.2 Hardware Sets:

SEE SEPARATE LIST OF HARDWARE SETS

END OF SECTION 08 71 00

HARDWARE SET NO. F.01

FOR USE ON DOOR #(S):

01

EACH TO HAVE:

2	EA	CONT. HINGE	224XY	628	IVE
1	EA	FIRE RATED	KR9954	689	VON
		REMOVABLE MULLION			
2	EA	FIRE EXIT HARDWARE	98-L-F-17	626	VON
1	EA	SFIC MORTISE CYL.	80-102	626	SCH
2	EA	SFIC RIM HOUSING	80-129	626	SCH
1	EA	SURFACE CLOSER	4111 EDA MC	689	LCN
1	EA	SURFACE CLOSER	4111 SCUSH MC	689	LCN
1	EA	WALL STOP	WS33X	626	IVE

HARDWARE SET NO. F.02

FOR USE ON DOOR #(S):

02

EACH TO HAVE:

1	EA	CONT. HINGE	224XY	628	IVE
1	EA	CLASSROOM	LV9071BDC 17A	626	SCH
		SECURITY			
1	EA	SURFACE CLOSER	4011 MC	689	LCN
1	EA	WALL STOP	WS33X	626	IVE

HARDWARE SET NO. F.03

FOR USE ON DOOR #(S):

04

EACH TO HAVE:

2	EA	CONT. HINGE	224XY	628	IVE
2	EA	FIRE EXIT HARDWARE	98-L-F-17	626	VON
2	EA	SFIC RIM HOUSING	80-129	626	SCH
2	EA	SURFACE CLOSER	4111 SCUSH MC	689	LCN

HARDWARE SET NO. F.04

FOR USE ON DOOR #(S):

05 06

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIV W/DB COIN TURN	L9444 17A L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33X	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

HARDWARE SET NO. F.05

FOR USE ON DOOR #(S):

07

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	LV9050BDC 17A L583-363	626	SCH
1	EA	SURFACE CLOSER	4011 MC	689	LCN
1	EA	WALL STOP	WS33	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

HARDWARE SET NO. F.06

FOR USE ON DOOR #(S):

08

EACH TO HAVE:

1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	98-NL	626	VON
1	EA	SFIC RIM HOUSING	80-129	626	SCH
1	EA	SURFACE CLOSER	4111 AVB SCUSH MC	689	LCN

HARDWARE SET NO. F.07

FOR USE ON DOOR #(S):

09

EACH TO HAVE:

1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	98-NL	626	VON
1	EA	SFIC RIM HOUSING	80-129	626	SCH
1	EA	SURFACE CLOSER	4111 AVB EDA MC	689	LCN
1	EA	WALL STOP	WS33X	626	IVE

HARDWARE SET NO. F.08

FOR USE ON DOOR #(S):

16

EACH TO HAVE:

	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	LV9080BDC 17A	626	SCH
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	WALL STOP	WS33X	626	IVE

HARDWARE SET NO. F.09

FOR USE ON DOOR #(S):

17

EACH TO HAVE:

1	EA	CONT. HINGE	224XY	628	IVE
1	EA	FIRE EXIT HARDWARE	98-L-F-17	626	VON
1	EA	SFIC RIM HOUSING	80-129	626	SCH
1	EA	SURFACE CLOSER	4111 AVB SCUSH MC	689	LCN



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FERNDALE PUBLIC SCHOOLS
2017 SINKING FUND
SUMMER 2019 RENOVATION PROJECTS

LOWER ELEMENTARY
SCHOOL
COMPOSITE PLAN

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

DRAWN BY: MTS
CHECKED BY: BJS

REVISIONS
ADDENDUM NO. 1 - 02.08.2019

DATE: FEBRUARY 1, 2019
SHEET NO.

A1.0LE

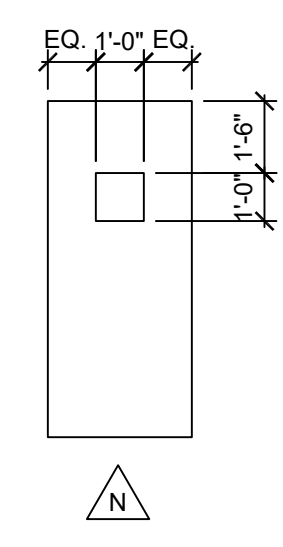
JOB NO. 181794

DOOR SCHEDULE															
DOOR OPENING			DOOR			FRAME			DETAILS			U.L. LABEL	HW SET	REMARKS	
NO.	WIDTH	HEIGHT	TYPE	MATL.	FINISH	TYPE	MATL.	FINISH	HEAD	JAMB	SILL				THRESH.
100A	2@3'-0"	6'-8"	N	HM	PT	ETR	HM	PT	-	-	-	-	20MIN	1	1,2,3
100B	2@3'-0"	6'-8"	N	HM	PT	ETR	HM	PT	-	-	-	-	20MIN	1	1,2,3

- DOOR SCHEDULE REMARKS:**
1. NEW DOOR IN EXISTING FRAME. VERIFY D.O. IN FIELD PRIOR TO FABRICATION OF NEW DOORS.
 2. PROVIDE FIRE RATED GLASS IN OPENINGS.
 3. DOORS TO HAVE NO CENTER MULLION.

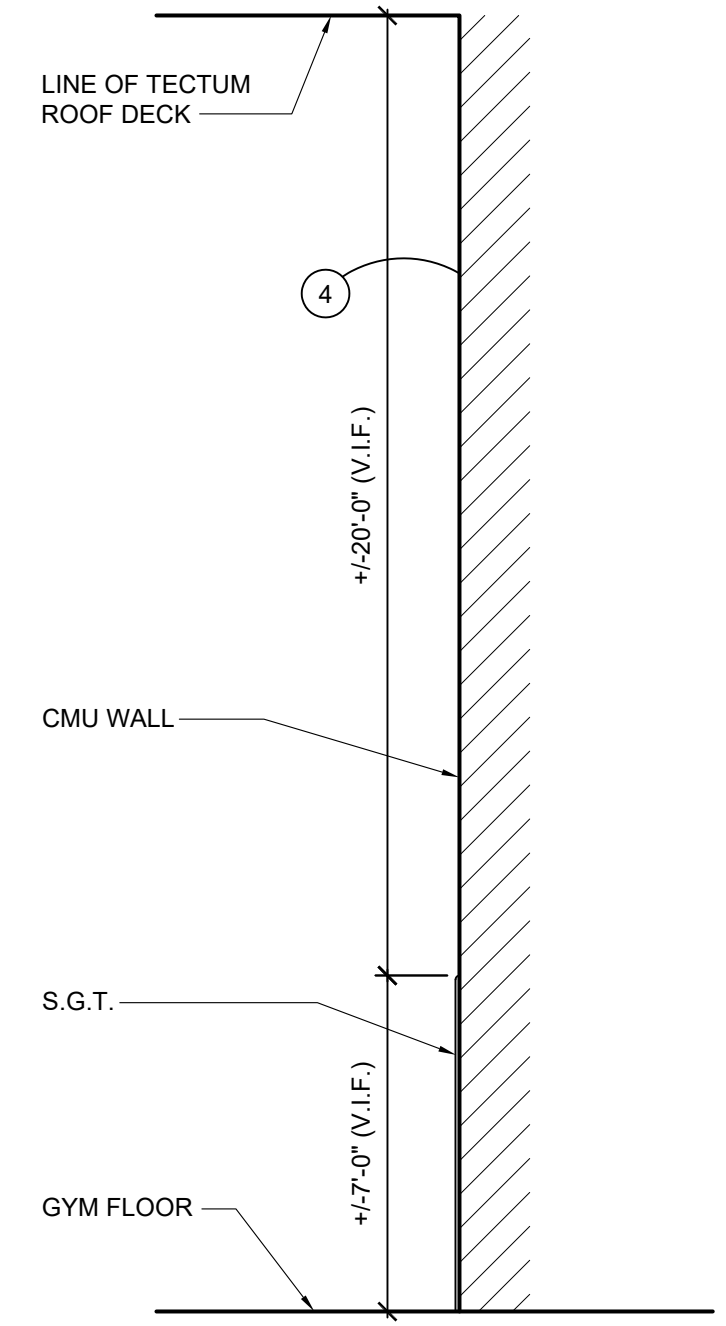
- DOOR SCHEDULE ABBREVIATIONS**
- ETR EXISTING TO REMAIN
 - HM HOLLOW METAL
 - PT PAINTED

DOOR ELEVATIONS:

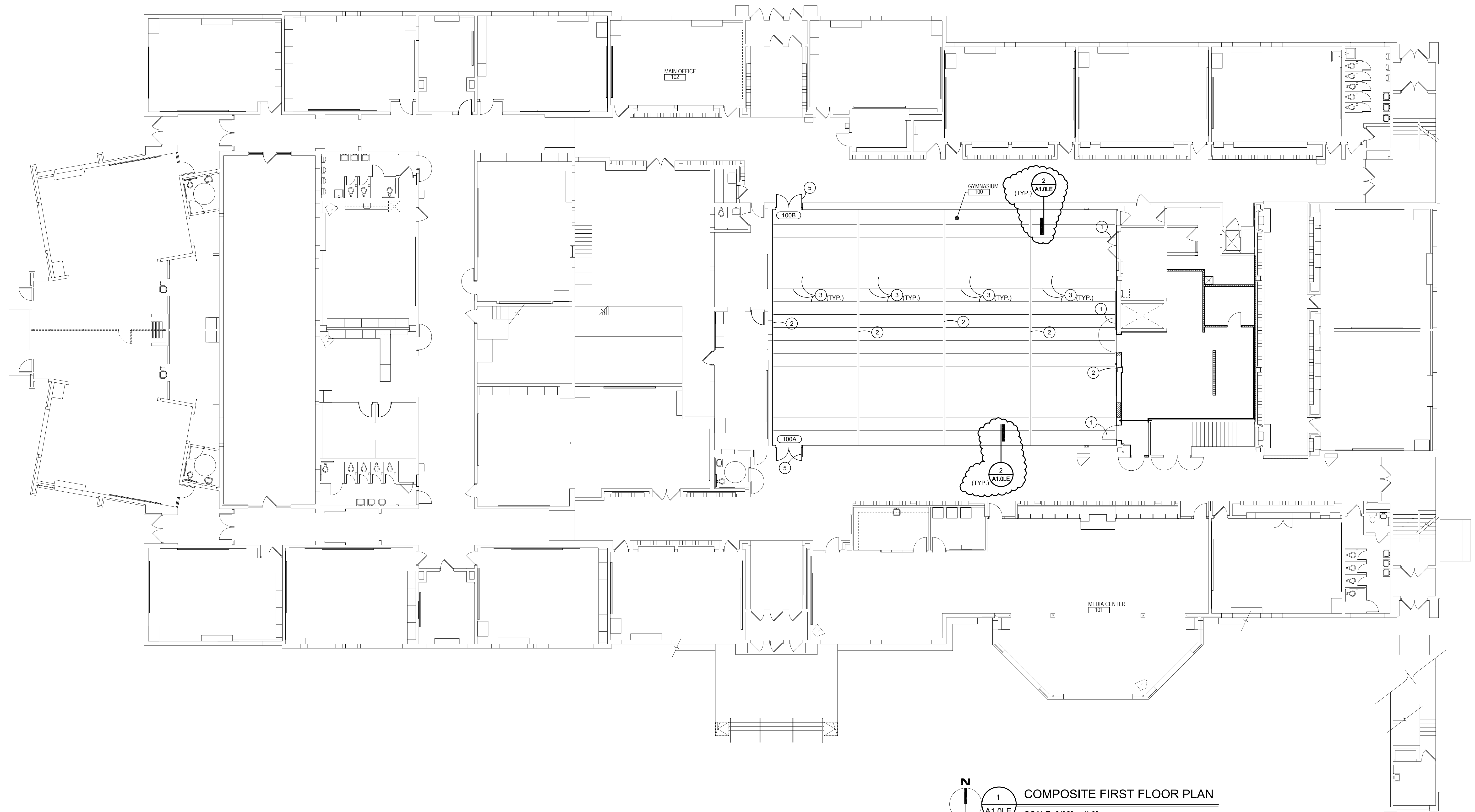


FLOOR PLAN LEGEND:

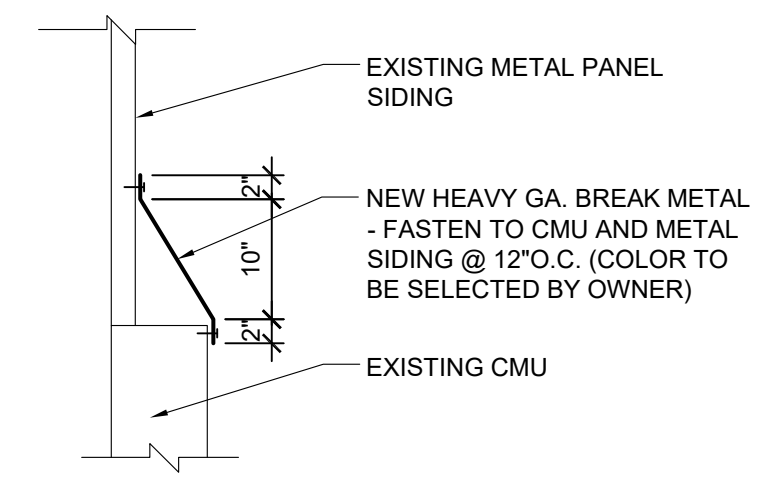
1. PAINT BOTH SIDES OF EXISTING DOOR SW 7038-TONY TAUPE. PAINT BOTH SIDES OF EXISTING DOOR FRAMES SW 6811-HONORABLE BLUE
2. PAINT EXISTING STEEL ROOF BEAMS (5@32'H) SW 6811-HONORABLE BLUE
3. PAINT EXISTING TECTUM ROOF DECK AND STEEL PURLINS (32@16'H) SW 6252-ICE CUBE
4. PAINT CMU WALLS ABOVE S.G.T. FULL HT. TO ROOF DECK ABOVE SW 6252-ICE CUBE. SEE SECTION 2/A1.0LE
5. REMOVE EXISTING WOOD DOORS. INSTALL NEW HM DOORS IN EXISTING FRAME PER SCHEDULE. PAINT NEW DOORS SW 7038 - TONY TAUPE. PAINT EXISTING DOOR FRAMES SW 6811 - HONORABLE BLUE.



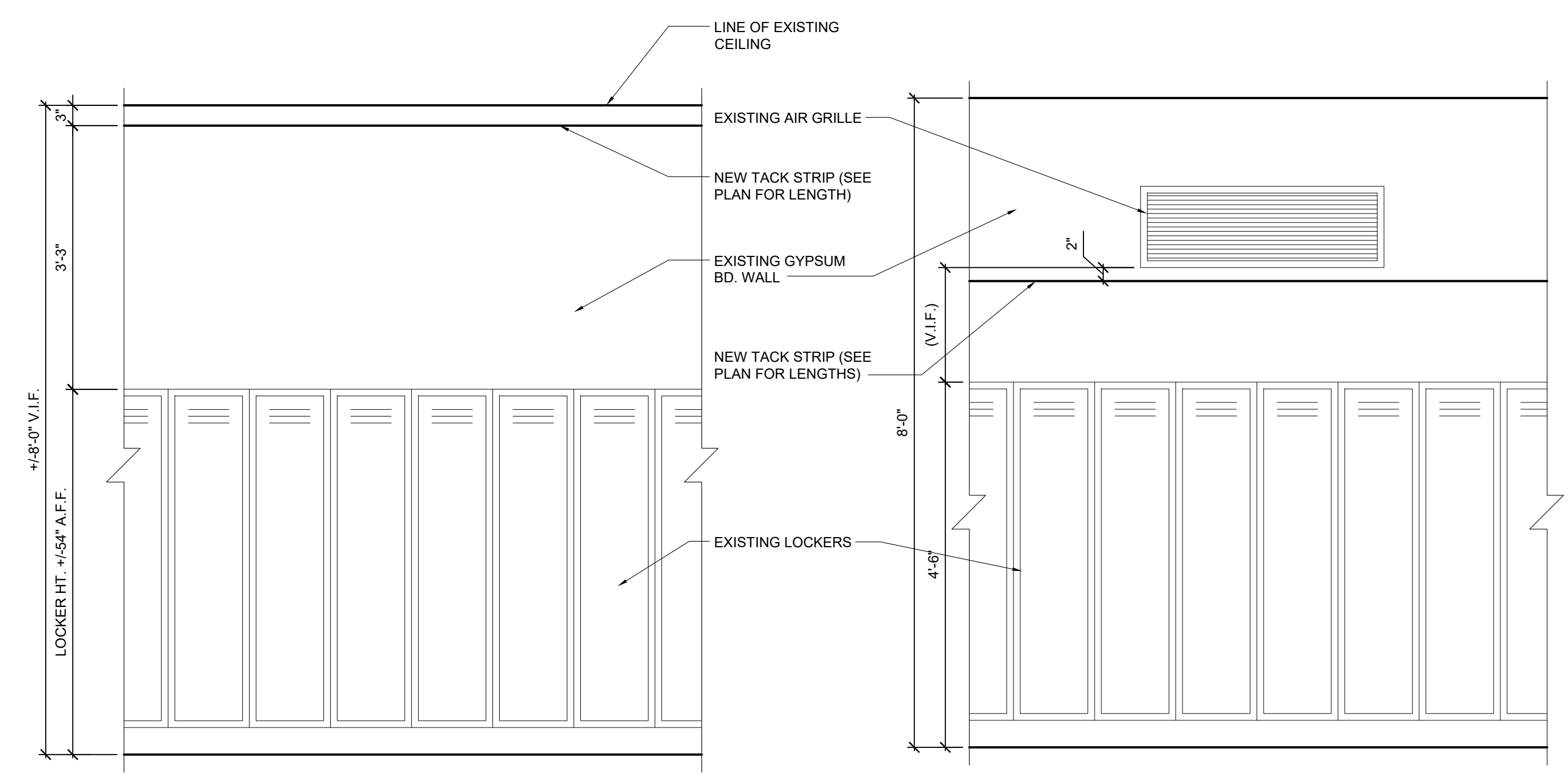
2 WALL SECTION
A1.0LE
SCALE: 1/4" = 1'-0"



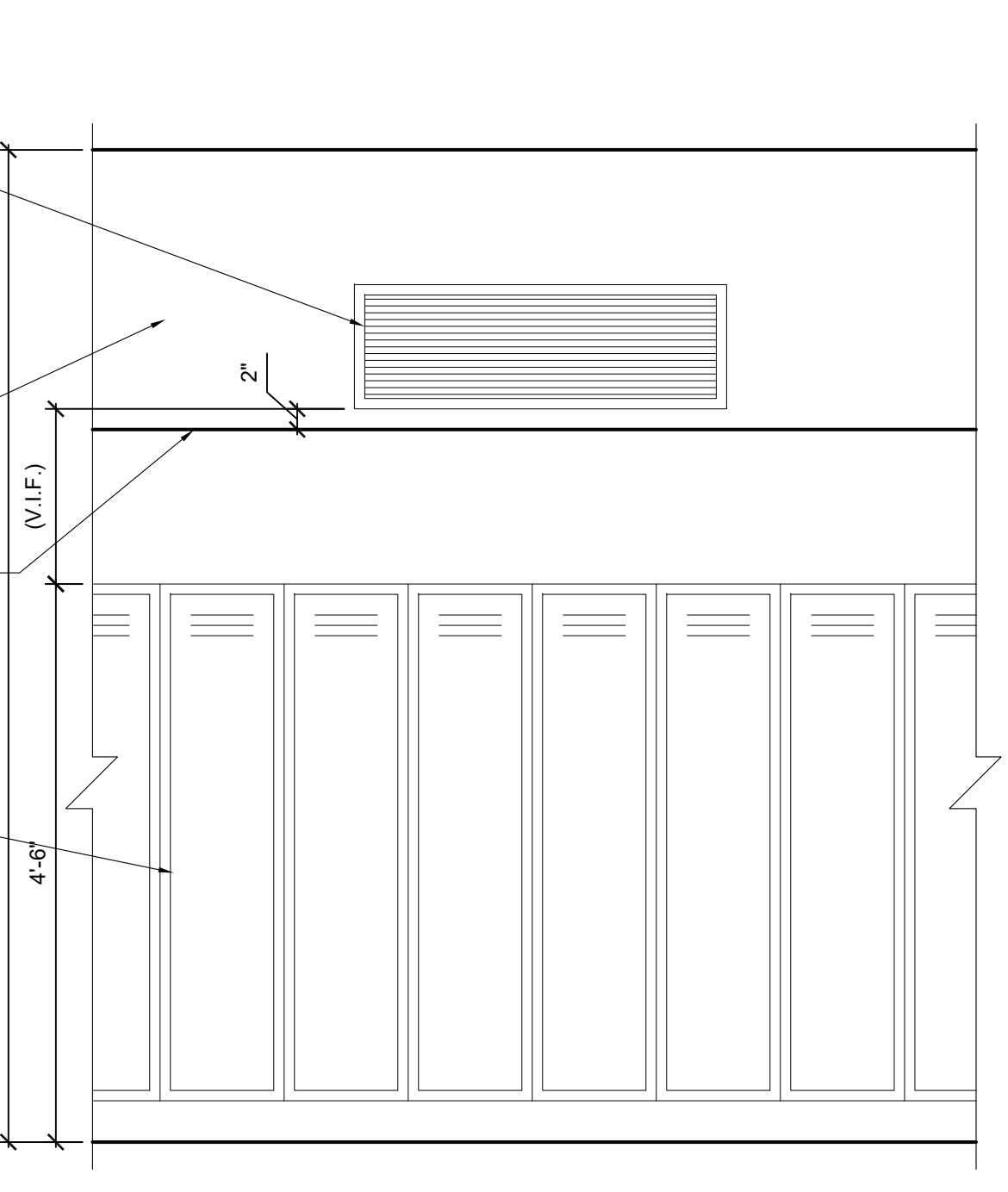
1 COMPOSITE FIRST FLOOR PLAN
A1.0LE
SCALE: 3/32" = 1'-0"



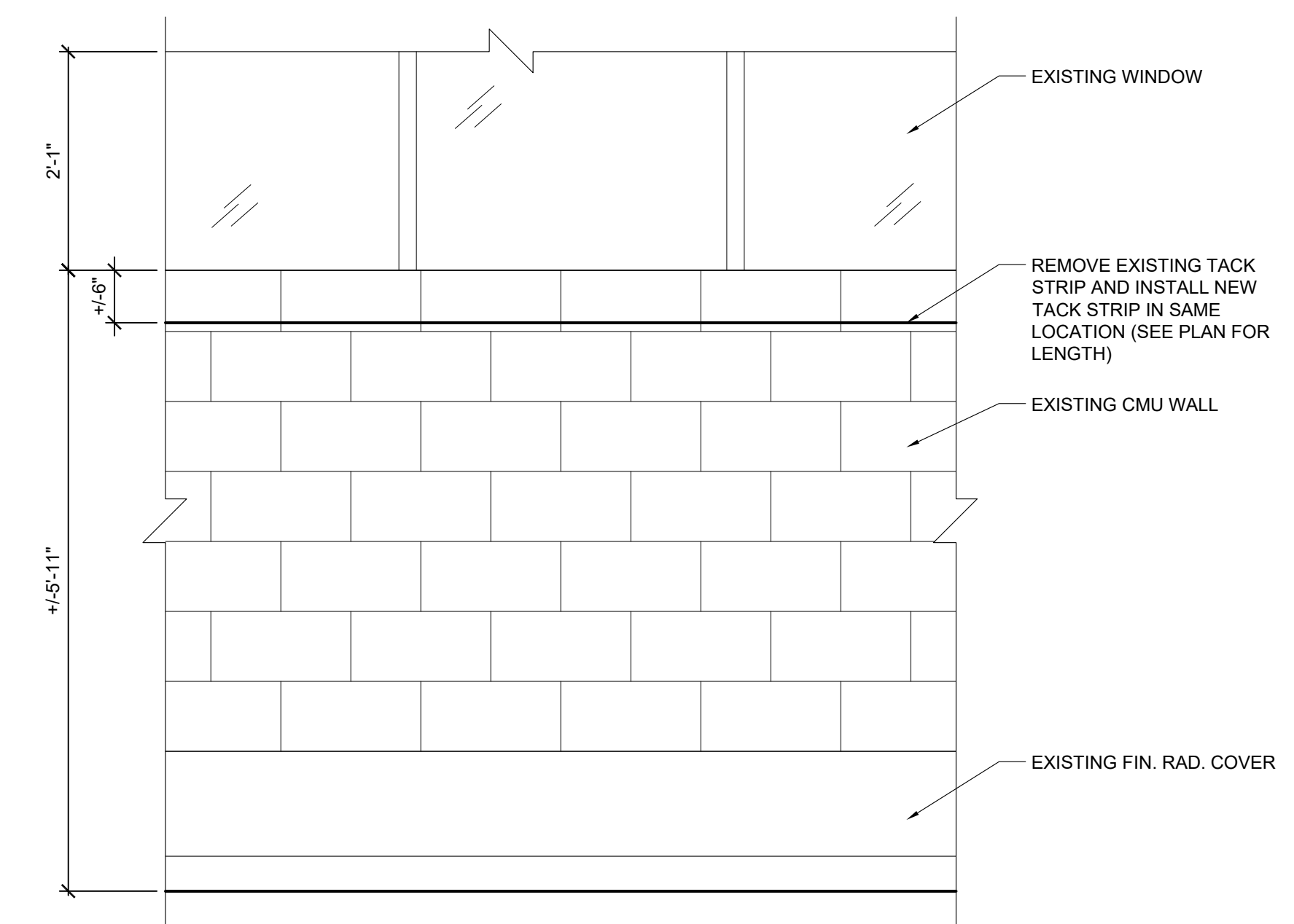
4 CORRIDOR ELEVATION
 A1.0UE SCALE: 3/4" = 1'-0"



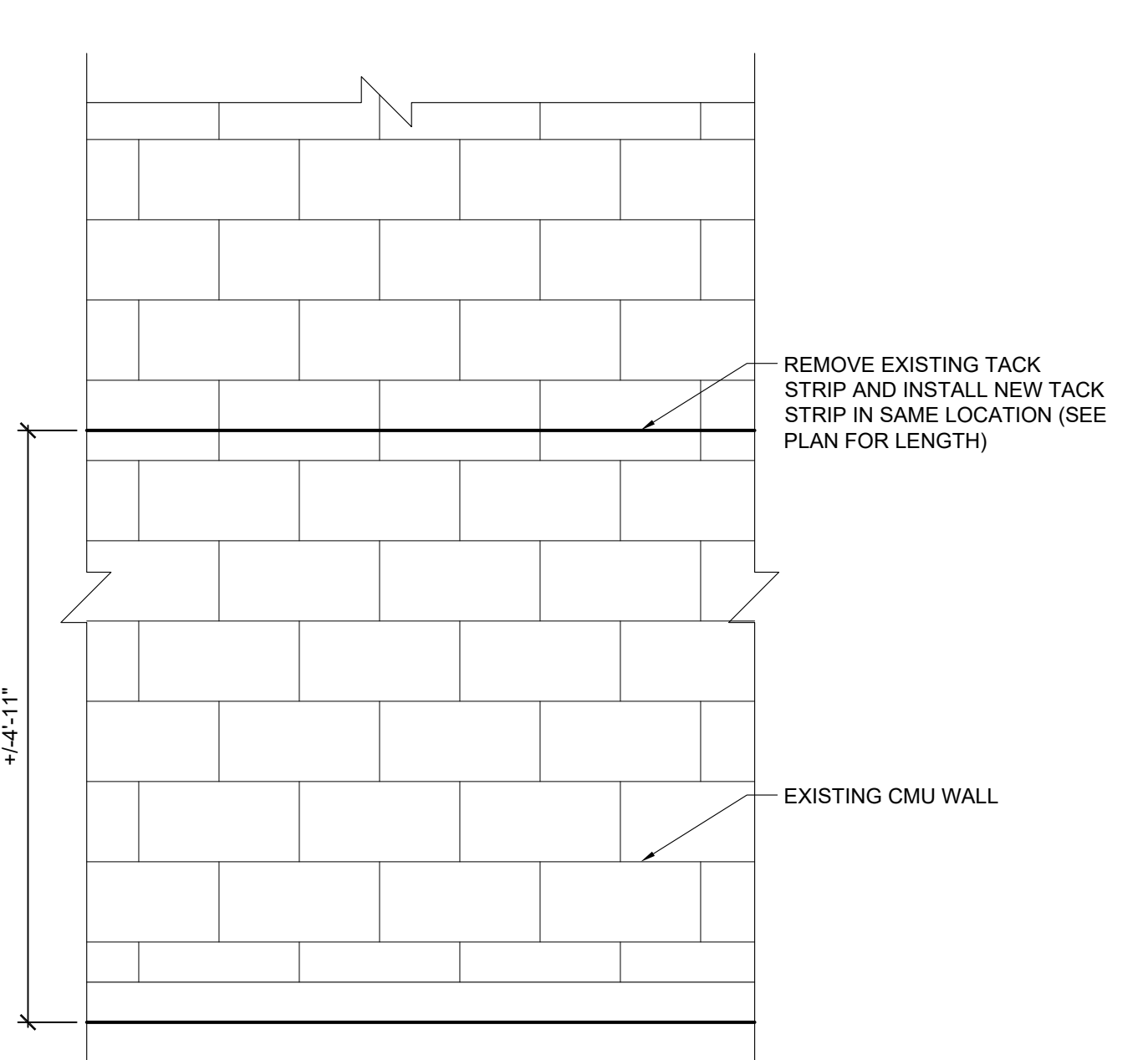
A CORRIDOR ELEVATION 'A'
 A1.0UE SCALE: 3/4" = 1'-0"



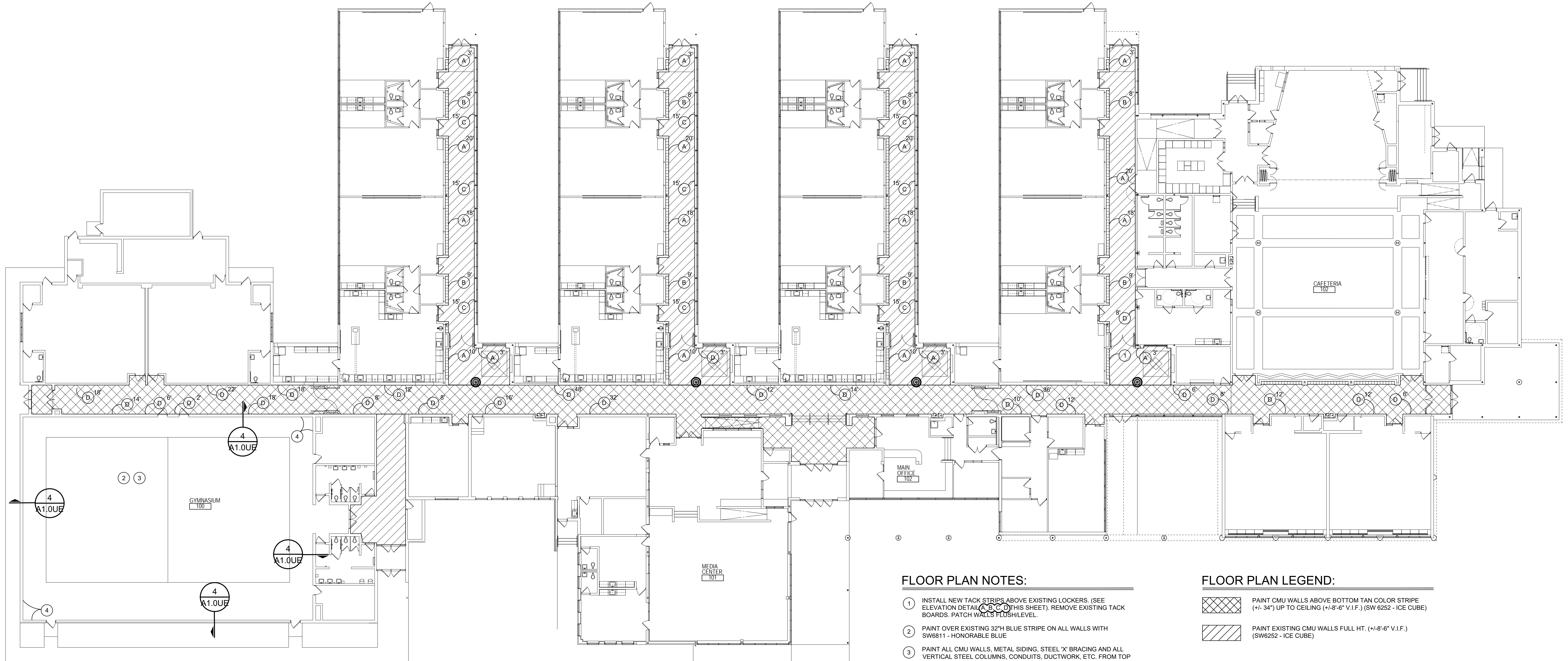
B CORRIDOR ELEVATION 'B'
 A1.0UE SCALE: 3/4" = 1'-0"



C CORRIDOR ELEVATION 'C'
 A1.0UE SCALE: 3/4" = 1'-0"



D CORRIDOR ELEVATION 'D'
 A1.0UE SCALE: 3/4" = 1'-0"



1 COMPOSITE FIRST FLOOR PLAN
 A1.0UE SCALE: 1/16" = 1'-0"

- FLOOR PLAN NOTES:**
- INSTALL NEW TACK STRIPS ABOVE EXISTING LOCKERS. (SEE ELEVATION DETAIL C, B, C OF THIS SHEET). REMOVE EXISTING TACK BOARDS. PATCH WALLS FLUSH LEVEL.
 - PAINT OVER EXISTING 32" H BLUE STRIPE ON ALL WALLS WITH SW6811 - HONORABLE BLUE
 - PAINT ALL CMU WALLS, METAL SIDING, STEEL 'X' BRACING AND ALL VERTICAL STEEL COLUMNS, CONDUITS, DUCTWORK, ETC. FROM TOP OF BLUE STRIPE UP TO ROOF DECK WITH SW6252 - ICE CUBE. DO NOT PAINT BELOW BLUE PAINT STRIPE. DO NOT PAINT ROOF DECK OR ANY HORIZONTAL FRAMING, DUCTWORK, CONDUITS, ETC. BELOW ROOF DECK.
 - NEW BREAK METAL TRIP ALONG TOP OF CMU WALL. SEE DETAIL 4/A1.0UE

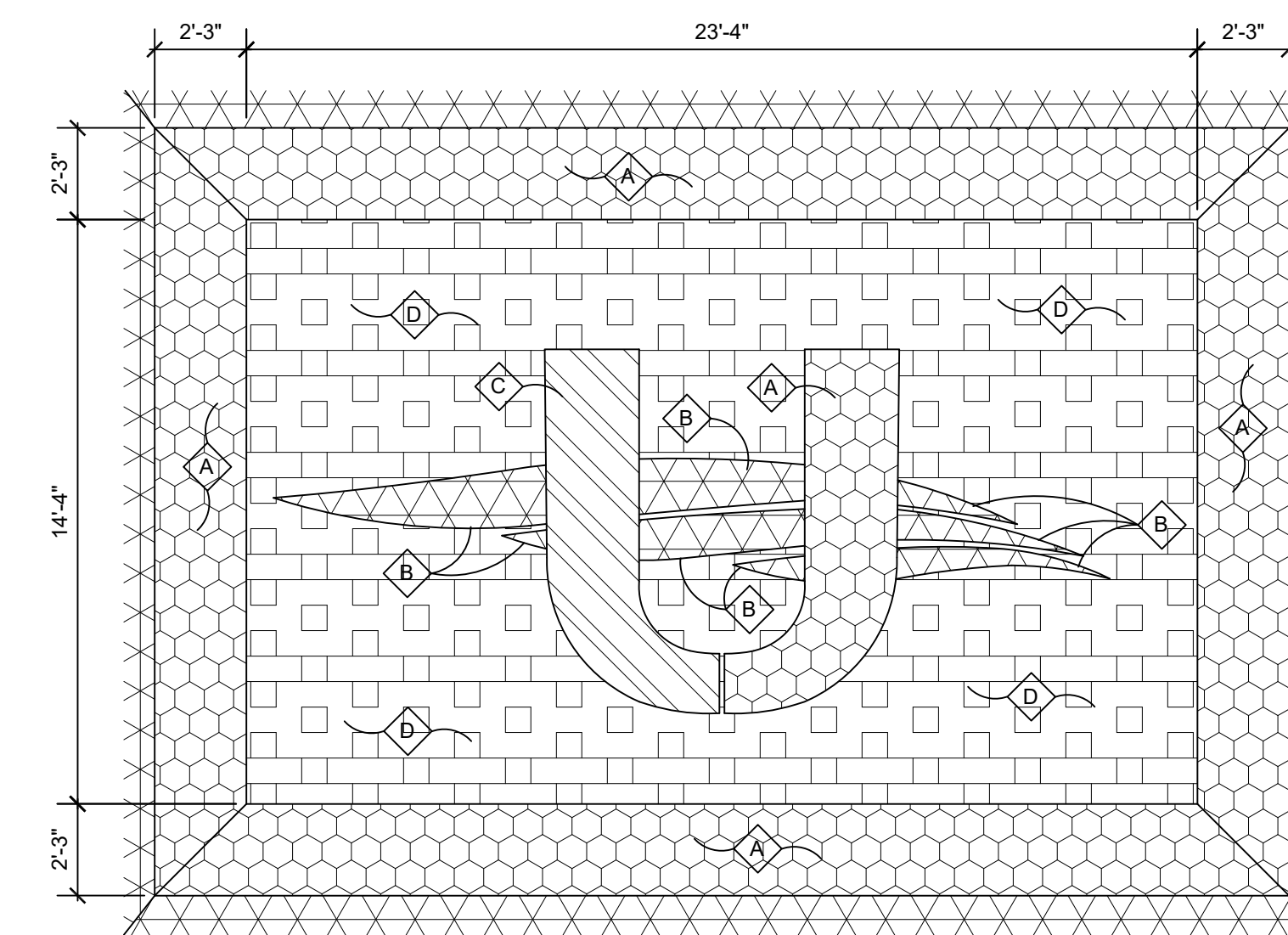
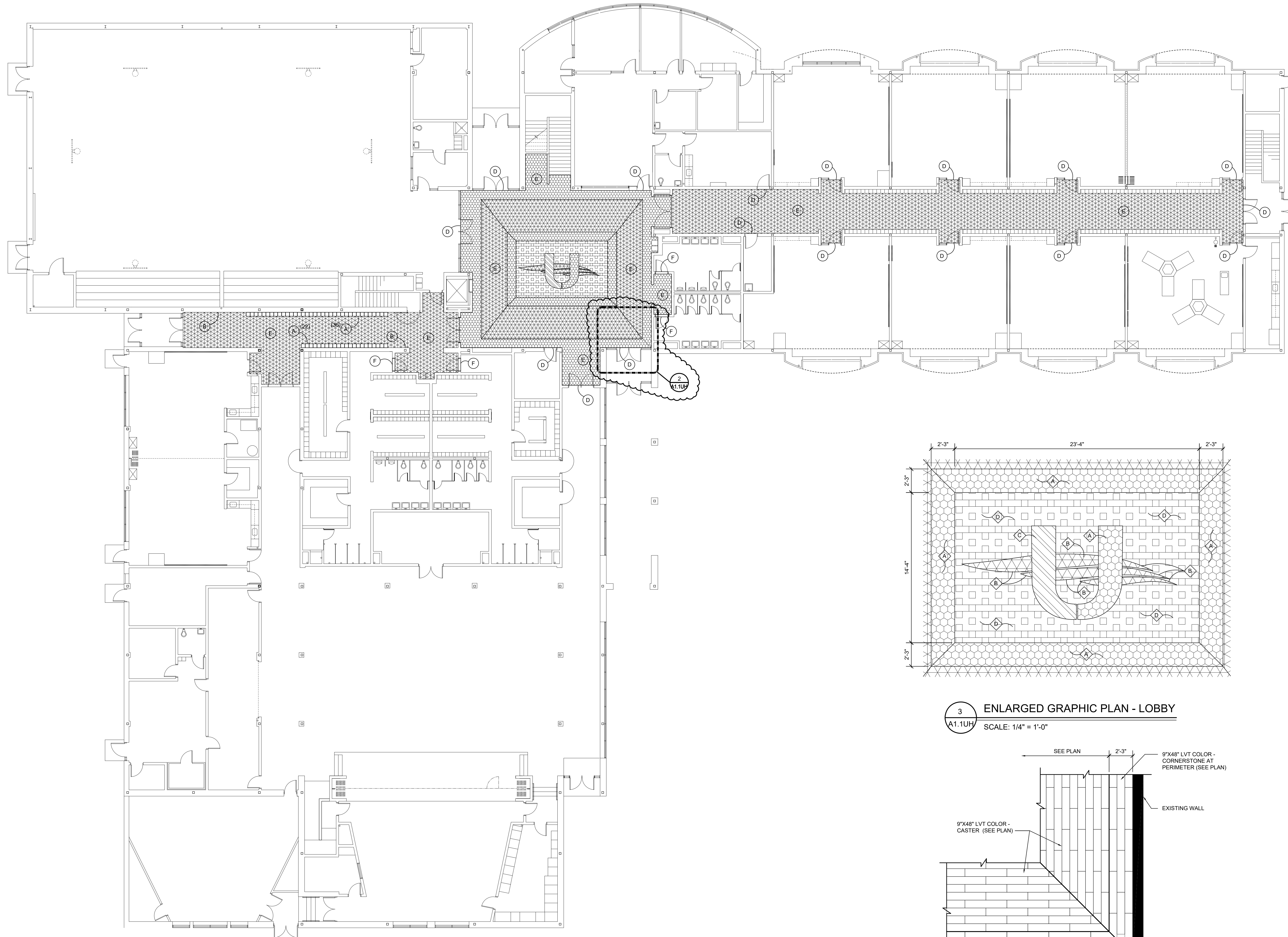
- FLOOR PLAN LEGEND:**
- PAINT CMU WALLS ABOVE BOTTOM TAN COLOR STRIPE (+/- 34") UP TO CEILING (+/- 8'-6" V.I.F.) (SW 6252 - ICE CUBE)
 - PAINT EXISTING CMU WALLS FULL HT. (+/- 8'-6" V.I.F.) (SW6252 - ICE CUBE)

FLOOR PLAN LEGEND:

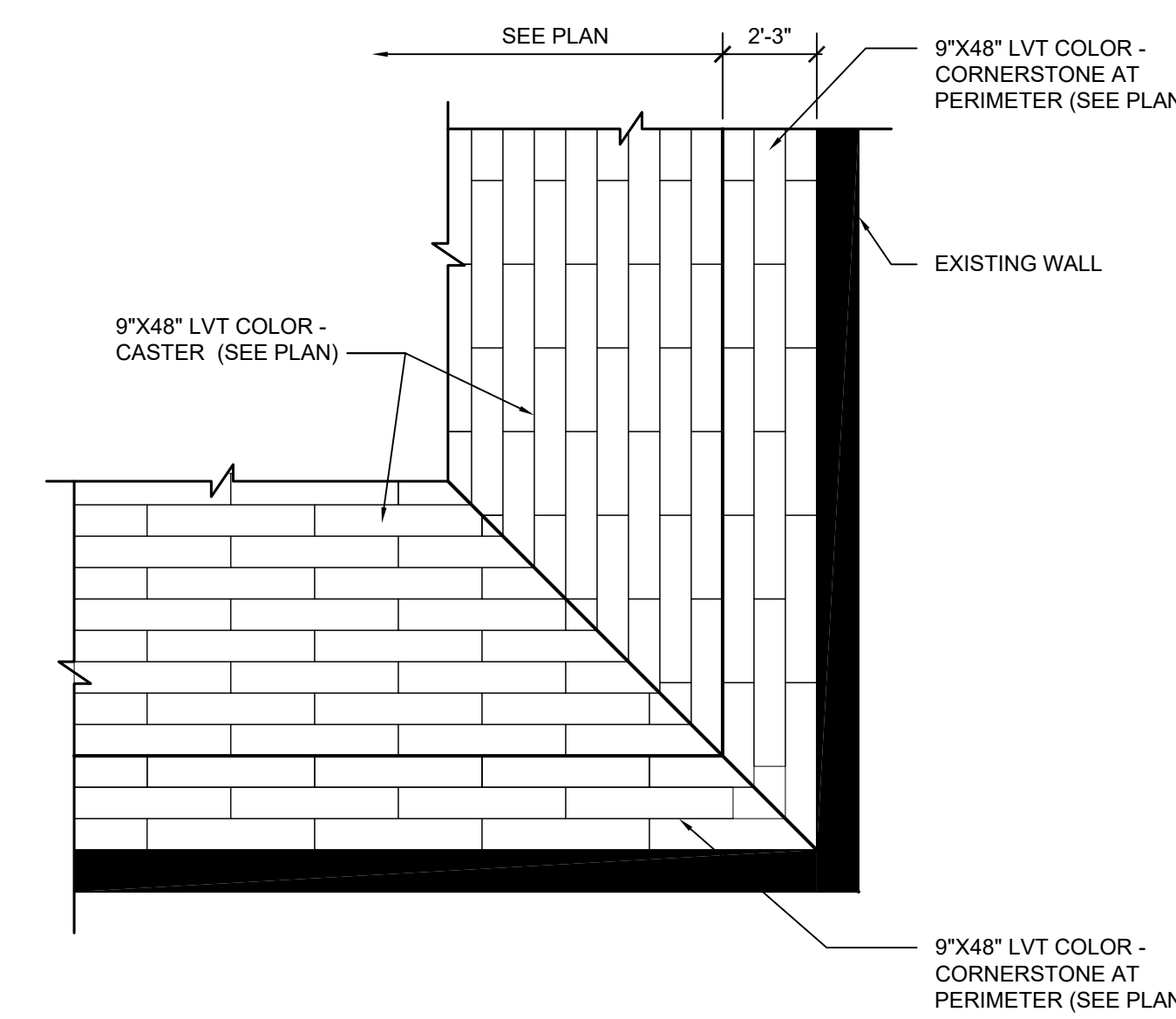
- A PROVIDE NEW 2-TIER 12"x12"x2" METAL LOCKER ON NEW METAL BASE WITH HEAVY GA. SLOPED TOP AND FINISHED END PANELS.
- B EXISTING ELECTRICAL RECEPTACLE. DO NOT COVER WITH NEW LOCKERS. (V.I.F.)
- C REMOVE EXISTING METAL LOCKERS. TURN OVER TO OWNER PATCH HOLES IN WALL FLUSH WITH WHITE CAULK (V.I.F.)
- D PROVIDE NEW VINYL REDUCER STRIP BETWEEN NEW/EXISTING FLOORING
- E REMOVE EXISTING CARPET AND VINYL COVE BASE. SCRAPE MASTIC AND GLUE FROM CONCRETE FLOORS AND MASONRY WALLS
- F MARBLE THRESHOLD TO REMAIN

FLOORING LEGEND:

-  SHAW CONTRACT, STYLE COVE 0927V
COLOR 27585 CORNER STONE
-  SHAW CONTRACT, STYLE COVE 0927V
COLOR 27518 CASTER
-  SHAW CONTRACT, STYLE COVE 0927V
COLOR 27201 LURE
-  SHAW CONTRACT, STYLE COVE 0927V
COLOR 27520 GESSO



3 ENLARGED GRAPHIC PLAN - LOBBY
A1.1UH SCALE: 1/4" = 1'-0"



2 TYPICAL FLOORING INTERSECTION
A1.1UH SCALE: 1/4" = 1'-0"

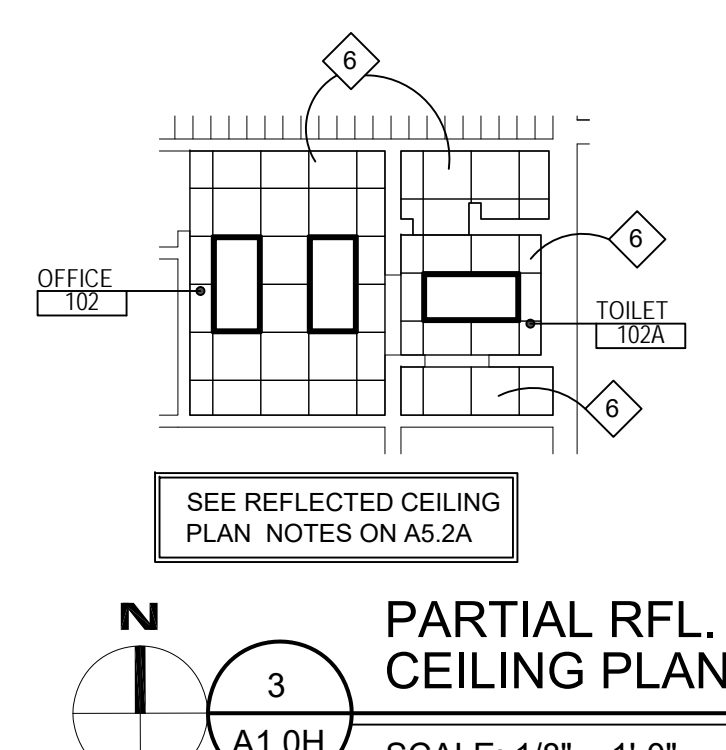
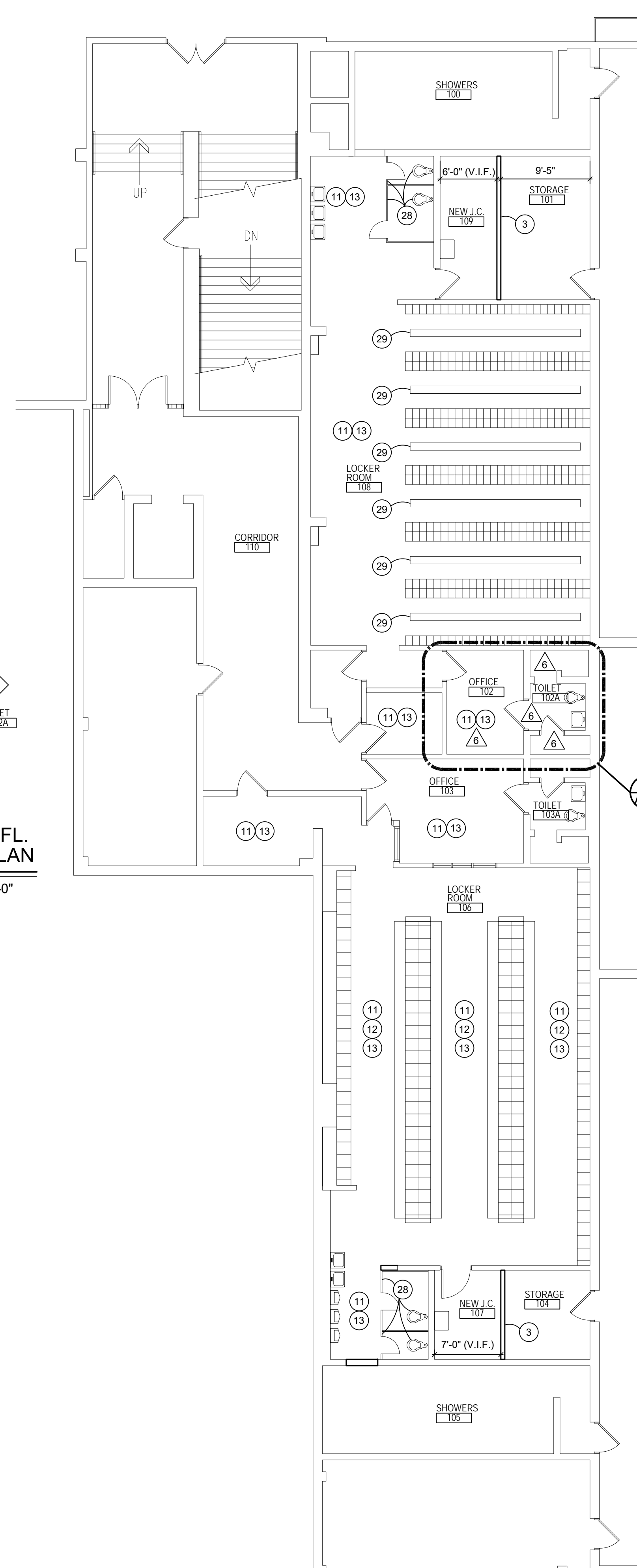
1 COMPOSITE FIRST FLOOR PLAN
A1.1UH SCALE: 3/32" = 1'-0"

DEMOLITION PLAN NOTES

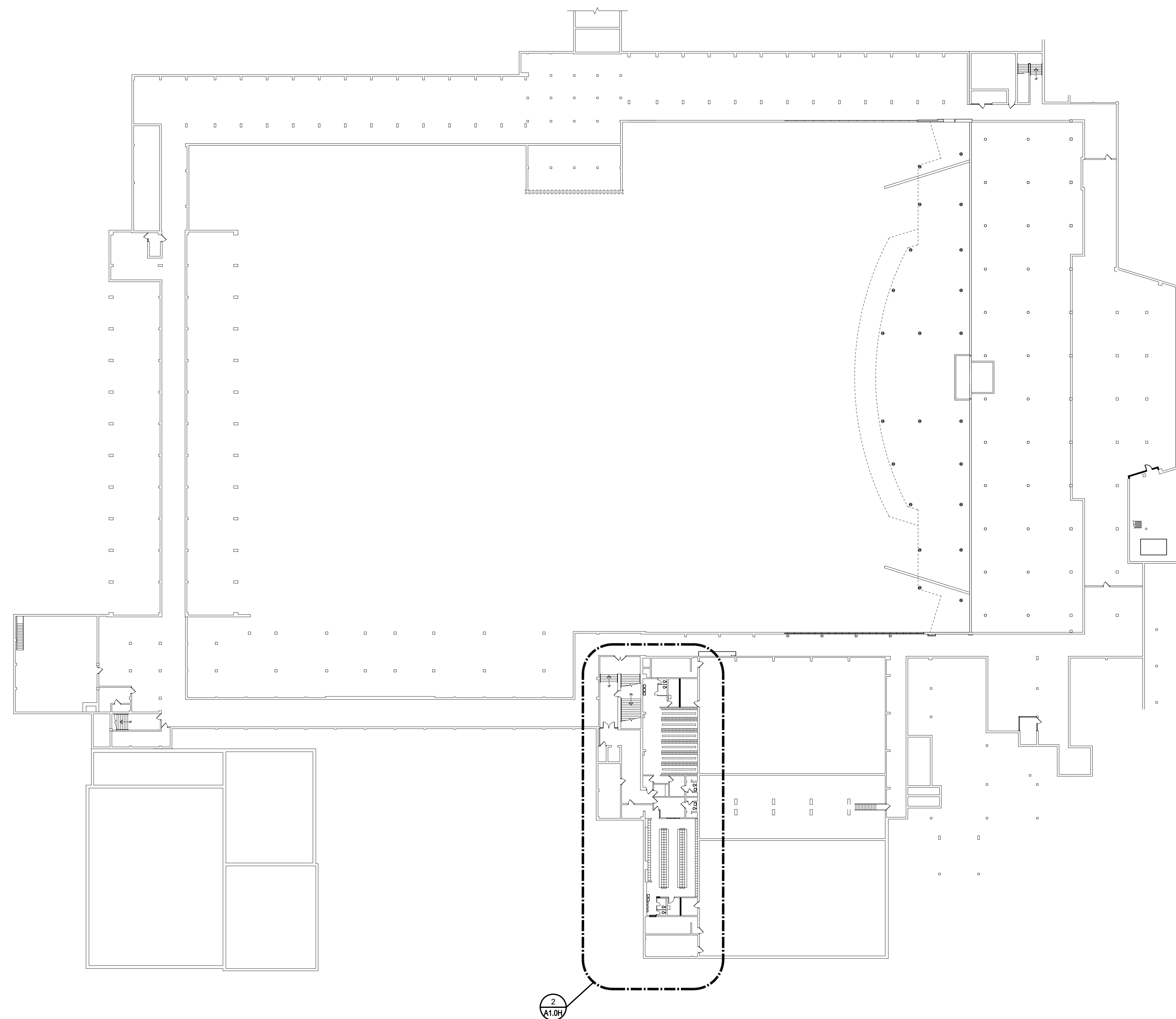
1. REMOVE EXISTING DOOR AND HARDWARE COMPLETE. FRAME TO REMAIN.
2. REMOVE EXISTING DOOR, FRAME AND HARDWARE COMPLETE. PATCH CONCRETE FLOOR AND MASONRY WALLS FLUSH AND LEVEL TO MATCH ADJACENT FINISHES. VERIFY CONDITIONS IN FIELD.
3. REMOVE PORTION OF HARD CEILING SYSTEM. REFER TO REFLECTED CEILING PLAN.
4. REMOVE PORTION OF EXISTING MASONRY WALL FOR NEW DOOR OPENING. PROVIDE NEW 8" PC CMU LINTEL AT 7'-4" COURSE LINE AFF. PROVIDE NEW STEEL BRICK ANGLE 3"x3"x2" AT WALLS CONTAINING BRICK VENEER. TOOTH-IN NEW BULLNOSE CMU FULL HT. OF JAMBS AND BRICK FULL HT. AT JAMBS TO MATCH ADJACENT SURFACES AND COURSING. VERIFY CONDITIONS AND COURSING IN FIELD.
5. REMOVE WALLS SHOWN DASHED FULL HT. AND 8" BELOW EXISTING CONCRETE FLOOR. PATCH CONCRETE FLOOR FLUSH AND LEVEL WITH NEW CONCRETE. TOOTH-IN NEW CMU WHERE WALLS WERE REMOVED TO MATCH ADJACENT SURFACES AND COURSING. VERIFY CONDITIONS IN FIELD.
6. REMOVE EXISTING HARD CEILING COMPLETE IN ENTIRE ROOM INCLUDING ALL FRAMING.
7. REMOVE EXISTING LOCKERS AND BASES COMPLETE. PATCH FLOOR AND WALLS FLUSH AND LEVEL TO MATCH ADJACENT SURFACES. VERIFY CONDITIONS IN FIELD.
8. REMOVE EXISTING WALL SINK. CAP UTILITIES BEHIND WALL AND PATCH WALL WITH CMU TO MATCH COURSING AND FINISHES. SEE MECHANICAL DRAWINGS.
9. REMOVE ALL CERAMIC WALL TILE AND FLOOR TILE IN SHOWER AREA COMPLETE. REMOVE SHOWER CONTROLS AND PLUMBING. CAP UTILITIES BEHIND WALL AND PATCH WITH CMU TO MATCH COURSING. PATCH FLOORS AND WALLS SMOOTH AND LEVEL.
10. REMOVE EXISTING WATER CLOSET. EXTEND UTILITIES FOR NEW FIXTURE. SEE MECHANICAL DRAWINGS.
11. REMOVE ALL WALL MOUNTED TOILET ACCESSORIES (MIRRORS, TOILET PAPER HOLDER, SOAP DISP., TOWEL DISP., ETC.). PATCH WALLS FLUSH AND LEVEL TO MATCH ADJACENT SURFACES.
12. REMOVE EXISTING LAY-IN CEILING SYSTEM COMPLETE.
13. REMOVE RAISED CONC. BENCH COMPLETE. PATCH WALLS AND FLOORS FLUSH AND LEVEL TO MATCH ADJACENT SURFACES.
14. REMOVE STONE BENCH COMPLETE. PATCH WALLS FLUSH.
15. REMOVE RAISED CURB. PATCH FLOOR LEVEL.
16. EXISTING D.F. TO REMAIN.
17. REMOVE/REPLACE EXISTING C.U.H. (30"H x 36"W) - SEE MECH.
18. REMOVE LOCKERS AND SALVAGE FOR REINSTALLATION.
19. REMOVE / RELOCATE F.A. STROBE AS SHOWN.
20. REMOVE / RE-INSTALL F.A. PULL STATION AND WIRE MOLD.
21. REMOVE WALL SIGNAGE.
22. REMOVE / RE-INSTALL F.A. STROBE AND WIRE MOLD.
23. REMOVE / RE-INSTALL VIDEO CAMERA AND WIRE MOLD.
24. REMOVE / RE-INSTALL WALL THERMOSTAT.
25. REMOVE / RE-INSTALL WALL BOX AND WIRE MOLD.
26. REMOVE WIRE MOLD AT CEILING LINE AND RE-INSTALL ABOVE NEW LAY-IN CEILING (V.I.F.)

NEW WORK PLAN NOTES

1. NEW DOOR IN EXISTING FRAME. VERIFY D.O. DIMENSIONS IN FIELD PRIOR TO FABRICATION OF NEW DOOR.
2. PATCH WALLS AT REMOVED WALL LOCATIONS TO MATCH EXISTING SURFACES (V.I.F.)
3. NEW 8" CMU WALL UP FULL HT. TO FLOOR DECK ABOVE SMOKE TIGHT AROUND ALL PIPES, ETC. PROVIDE PC CMU AT 7'-4" AFF FOR NEW DOOR OPENING (PAINT FULL HT.)
4. GRIND AND POLISH EXISTING TERRAZZO FLOOR.
5. NEW DOOR AND FRAME IN NEW 3'-4"x7'-4" M.O.
6. NEW 60 MIN. FIRE RATED DOOR AND FRAME ASSEMBLY FULL WIDTH OF CORRIDOR UP TO CEILING HT. SEE ELEVATIONS. VERIFY OPENING DIMENSIONS IN FIELD (HEAT BARRIER FRAME SYSTEM).
7. INSTALL NEW 1 HOUR RATED WALL CONSTRUCTION (6" TYPE X GYP. BD. EA. SIDE OF 20 GA. 6" METAL STUDS AT 16" O.C.) ABOVE NEW FRAME FROM CEILING HT. UP TO FLOOR DECK ABOVE. SEAL ALL VOIDS AND JOINTS SMOKE TIGHT.
8. INFILL EXISTING M.O. WITH BRICK AND CMU. TOOTH-IN TO MATCH COURSING.
9. CONSTRUCT NEW 8" CMU WALL EACH SIDE OF DRINKING FOUNTAIN (6"-0" APART), STACKED BOND, 46" HIGH AND 16" OUT FROM WALL WITH BULLNOSED VERTICAL EDGES AND SOLID CMU TOP COURSE. DRILL 2 NO. 4 BARS 6" INTO THE CONCRETE FLOOR AND SET IN EPOXY. EXTEND BAR FULL HT. OF WALL AND GROUT SOLID INSIDE EACH CMU CORE. COVER WITH NEW CERAMIC WALL TILE TO MATCH WALLS.
10. INSTALL NEW TERRAZZO TILE OVER EXISTING CONCRETE FLOOR.
11. REMOVE ALL EXISTING 6" HIGH CERAMIC COVE BASE IN ROOM. SCRAPE MORTAR OFF WALL. REPAIR WALLS SMOOTH AND LEVEL AS REQUIRED. INSTALL NEW 6" VINYL COVE BASE.
12. EXISTING CONCRETE BENCH. REPAIR SURFACES SMOOTH AND LEVEL. PAINT CONCRETE BENCH WITH EPOXY.
13. GRIND AND POLISH EXISTING CONCRETE FLOOR. REMOVE ALL PAINT FROM FLOOR AND PATCH CRACKS / DEPRESSIONS FLUSH AND LEVEL.
14. NEW 6" CMU WALL UP TO 8" ABOVE NEW CEILING HEIGHT (+18"-8" A.F.F.).
15. NEW TERRAZZO TILE OVER CONCRETE.
16. MODIFY EXISTING LAY-IN CEILING AS REQUIRED FOR NEW WALL CONSTRUCTION UP TO DECK ABOVE.
17. MODIFY EXISTING CMU WALL TO INSTALL NEW P.C. LINTEL. GROUT SOLID OPEN CORES BELOW LINTEL.
18. NEW WALL C.U.H. ENLARGE WALL OPENING AS NEEDED (V.I.F.). SEE MECH.
19. NEW PCT WALL TILE FULL HT. - CARRY SAME PATTERN AND ACCENTS 'A' AND 'B' AS IN ENTRY 04.
20. NEW ST. ST. VERTICAL CORNER SCHLUTER STRIP.
21. NEW RAISED CONC. BENCH CONSTRUCTION. SEE DETAILS.
22. RELOCATED LOCKER ONTO NEW CONC. BENCH. SEE LOCKER SCHEDULE.
23. FINISH OPEN ENDS WITH NEW CMU/CONC. TO MAKE FLUSH END.
24. NEW METAL FILLER TO MATCH LOCKER COLOR AND HT. (V.I.F.)
25. LOCATE NEW WALL AT CUT END OF CONC. BENCH.
26. PROVIDE NEW FINISHED END ON LOCKER TO MATCH EXISTING.
27. EXISTING VERTICAL EXPANSION JOINT. INSTALL NEW EXPANSION JOINT IN NEW PCT WALL AT THIS LOCATION.
28. EXISTING TOILET PARTITIONS AND FLOOR TOILETS TO REMAIN IN PLACE.
29. EXISTING PEDESTAL BENCHES - REMOVE / REINSTALL AS REQUIRED TO PERFORM CONCRETE POLISH WORK.
30. RELOCATED F.A. STROBE.
31. NEW DOOR AND FRAME IN EXISTING M.O. (V.I.F.)



3 PARTIAL RFL CEILING PLAN
 SCALE: 1/8" = 1'-0"



1 COMPOSITE TUNNEL LEVEL PLAN
 SCALE: 1/32" = 1'-0"

2 PARTIAL NEW WORK PLAN
 SCALE: 1/8" = 1'-0"