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ADDENDUM NO. ONE
MACOMB COUNTY
BOARD OF COMMISSIONERS
2023 Masonry Restoration
Page 1 of 2 (write up only)

June 12, 2023

ADDENDUM NO. ONE to the plans and specifications for the MACOMB COUNTY BOARD OF COMMISSIONERS, 2023 MASONRY RESTORATION, VARIOUS SITES, MT. CLEMENS, MI, Architect's Project No. 221978, dated May 30, 2023.

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.

Specification Sections 06100 and 08710 are being issued in this Addendum.
Drawings A1.0, A1.1 and A1.3 are being issued in this Addendum.
Sign-in sheet from the Pre-bid Walk-thru is included in this Addendum.

ARCHITECTURAL SPECIFICATION ITEMS

- ITEM NO. AS1:** Refer to Request for Bid: (not re-issued):
1. This project is not subject to Prevailing Wages (refer to Page 9 and anywhere else it is mentioned).
- ITEM NO. AS2:** Refer to Specification Section 06100 "Carpentry" (re-issued):
1. Added Specification Section 06100 in its entirety.
- ITEM NO. AS3:** Refer to Specification Section 08710 "Finish Hardware":
1. Added Specification Section 08710 in its entirety.

ARCHITECTURAL ITEMS

- ITEM NO. A1:** Attached, please find Sign In Sheet from the non-mandatory Pre-Bid Meeting held on June 7, 2023 at 11:30am at the Hall Road Facility.
- ITEM NO. A2:** CLARIFICATION: Refer to sheet AS1.0 "Proposed Construction Fence Layout" and Spec Section 01500 "Temporary Facilities":
Note: The Construction Fence shown on AS1.0 and referenced in Spec Section 01500 2.1F and 3.4 D, for installation of the metal siding and shall only be included with the alternate for metal siding.
- ITEM NO. A3:** Refer to sheet A1.0 and Spec Section 02070 "Selective Demolition" temporary walls required for new work shall be constructed of materials indicated in 3.1 3 a & b of Spec Section 02070 "Selective Demolition".
Note: Owner will relocate furniture in order to building temporary wall.

ITEM NO. A4: Refer to sheet A1.0 (re-issued):

1. Revised new ribbon window as indicated with keynotes and indication of temporary wall.
2. Added notes regarding steel column and steel lintel under new work keynotes - floor plan.
3. Indicated removal of existing awning on west side of building.
4. Add supported slab at door shown on plan.
5. Added supported slab detail.

ITEM NO. A5: Refer to sheet A1.1 (re-issued):

1. Added keynotes 3 and 4 to ribbon windows on Elevation 1.
2. Revised the ribbon windows on Elevation 1 from Alternate No. 1 to Base Bid.
3. Revised new ribbon windows and added notes regarding steel lintel and column.
4. Added Section Detail 2 to drawing.

ITEM NO. A6: Refer to sheet A1.3 (re-issued):

1. Remove existing canopy completely. Patch masonry as required.

ITEM NO. A7: The roof at the Macomb County Warehouse has a Tremco warranty in place until 5/2/24. All work associated with this project shall maintain the warranty.

END OF ADDENDUM NO. 1

Cc: Mary Schultz, Macomb County
Anthony Toreli, Macomb County
Benjamin Treppa, Macomb County
Ron Syme, Wakely Associates
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SECTION 06100 - CARPENTRY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Attention is directed to Division 0, Bidding and Contract Requirements, and to Division 1, General Requirements, which are hereby made a part of this Section.

1.02 DESCRIPTION OF WORK:

- A. The extent of the carpentry work is shown on the Drawings.

1.03 QUALITY ASSURANCE:

- A. Lumber Standard: Comply with U.S. Department of Commerce Product Voluntary Standards PS 1-07, "Structural Plywood", PS 2-04 Performance Standard for "Wood based structural use panels" and PS 20-05 American Softwood Lumber Standard, except as otherwise indicated.
- B. Factory mark each piece of lumber and plywood with type, grade, mill, and grading agency: West Coast Lumber Assoc. (WBLC) or Western Wood Products Association (WWPA).

1.04 SUBMITTALS:

- A. Wood Treatment Data:
 - 1. Submit treatment manufacturer's instructions for proper use of each type of treated material.
 - a. Pressure Treatment: For each type specified, include certification by treating plant stating chemicals and process used, net amount of preservative retained, and conformance with applicable standards.
 - b. For water-borne preservatives, include statement that moisture content of treated materials was reduced to a maximum of 15% prior to shipment to project site.
- B. Product Data:
 - 1. Submit manufacturer's specifications and other data for each carpentry anchorage, fastening, and miscellaneous material. Provide material certificates for all lumber and plywood. Transmit a copy of each instruction to the Installer.

1.05 PRODUCT HANDLING:

- A. Delivery and Storage: Keep materials dry during delivery and storage. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber and plywood and provide air circulation within stacks.

1.06 JOB CONDITIONS:

- A. Coordination: Fit carpentry work to other work, scribe and cope as required for accurate fit. Correlate location of furring, nailers, blocking, grounds, and similar supports to allow proper attachment of other work.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Lumber - General:

- 1. Nominal sizes are indicated, except as shown by detail dimensions. Provide actual sizes as required by PS 20-05, for the moisture content specified for each use. Use dressed lumber, surfaced four sides (SFS) seasoned with 19% maximum moisture content at time of dressing.

B. Framing Lumber (2" through 4" thick):

- 1. For light framing (less than 6" wide), provide Construction Grade Douglas Fir as graded by the West Coast Lumber Bureau (WCLB) or equivalent species and grade with minimum fiber stress rating (bending) of 1000 psi (Fb), and modulus of elasticity of 1,500,000 psi.
- 2. For structural framing (6" and wider and from 2" to 4" thick) provide dense No. 1 Grade Douglas Fir as graded by the West Coast Lumber Bureau (WCLB) or equivalent species and grade with minimum fiber stress rating (bending) of 1500 psi (Fb), and modulus of elasticity of 1,700,000 psi.

C. Boards (less than 2" thick):

- 1. Produce lumber of 19% maximum moisture content (S-DRY) and of the following species and grade.
 - a. Redwood Construction Common (RIS).
 - b. Southern Pine No. 2 Boards (SPIB).
 - c. Or any species graded construction Boards (WCLB or WWPA).

D. Plywood:

1. Provide only Douglas Fir Plywood in accordance with grading requirements of the APA - The Engineered Wood Association as follows:
 - a. Treated non-combustible AC standard with exterior glue.

E. Anchorage and fastening Materials:

1. Select proper type, size, material, and finish for each application. Comply with the following:
 - a. Nails and Staples: FS FF-N-105.
 - b. Wood Screws: FS FF-S-111.
 - c. Bolts and Studs: FS FF-B-575.
 - d. Nuts: FS FF-N-836.
 - e. Washers: FS FF-W-92.
 - f. Lag Screws or Lag Bolts: FS FF-B-561.
 - g. Masonry Anchoring Devices: For expansion shields, nails, and drive screws, comply with FS FF-S-325.
 - h. Toggle Bolts: FS FF-B-588.
 - i. Bar or Strap Anchors: ASTM A 575 carbon steel bars.

2.02 WOOD TREATMENT:

- A. Preservation Treatment: Where lumber or plywood is indicated as "Treated" or is specified herein to be treated, comply with the applicable requirements of the American Wood Preservers Association (AWPA) AWPA P23-08, ASTM D-1625 and Federal Specification TT-W-50.
- B. Pressure-treat above-ground items with water-borne preservatives complying with AWPA P5-09, ASTM D-1760, and Federal Specification TT-W-571. After treatment, kiln-dry to a maximum moisture content of 19%. Treat indicated items and the following, except where fire retardant treated.

1. Wood cants, nailers, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers and waterproofing.
2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
3. Wood framing members less than 12 inches above grade excepting timber.

C. Fire Retardant Treated:

1. Wood blocking and similar items installed within the building shall be pressure impregnation with retardant chemicals to achieve a flame spread rating of not more than 25 when tested in accordance with UL Test 723, ASTM E 84, or NFPA Test 355.

PART 3 - EXECUTION

3.01 INSPECTION:

- A. Installer must examine the substrates and supporting structure and the conditions under which the carpentry work is to be installed and notify the General Contractor, in writing, of conditions detrimental to the work. Do not proceed with the installation until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

3.02 INSTALLATION:

A. General:

1. Discard units of material with defects which might impair the quality of the work, and units which are too small to fabricate the work with minimum joints or the optimum joint arrangement.
2. Set carpentry work accurately to required levels and lines, with members plumb and true and accurately cut and fitted.
3. Securely attach carpentry work to substrate by anchoring and fastening as shown and as required. Provide washers under bolt heads and nuts in contact with wood. Nail plywood in accordance with the recommendations of APA-The Engineered Wood Association.

4. Use common wire nails, except as otherwise shown or specified herein. Use finishing nails for exposed work. Do not wax or lubricate fasteners that depend on friction for holding power. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting of wood; pre-drill as required. Do not drive threaded friction type fasteners; turn into place. Tighten bolts and lag screws at installation and retighten as required for tight connections prior to closing in or at completion of work.

B. Wood Grounds, Nailers, Blocking and Sleepers:

1. Provide wherever shown and where required for screening or attachment of other work. Form to shapes as shown and cut as required for true line and level of work to be attached. Coordinate location with other work involved.
2. Attach to substrates as required to support applied loading. Countersink bolts and nuts flush with surfaces, unless otherwise shown. Build into masonry during installation of masonry work. Where possible, anchor to form work before concrete placement.
3. Provide permanent grounds of dressed, pressure preservative treated key-bevelled lumber not less than 1-1/2" wide and of the thickness required to bring face of ground to exact thickness of finished material involved. Remove temporary grounds when no longer required.

C. Wood Furring:

1. Install plumb and level with closure strips at all edges and openings. Shim with wood as required for tolerance of finished work.

D. Wood Framing:

1. Provide framing members of sizes and on spacings shown and frame openings as shown, or if not shown, comply with recommendations of "The Wood Frame Construction Manual" 2015 Ed. of the American Wood Council. Do not splice structural members between supports.

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2. Anchor and nail as shown, and comply with the "Recommended Nailing Schedule - Table I of the Manual for Housing Framing: and other recommendations of the N.F.P.A.

E. Installation of Plywood:

1. Comply with recommendations of the Engineered Wood Association (APA) for the installation of plywood.

END OF SECTION 06100

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SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.1 Refer to "Bidding & Contract Requirements Division 0, and "General Requirements", 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 00 - Bidding & Contract Requirements
2. Division 01 - General Requirements
3. Section 06100 - Carpentry
4. Section 08112 - Hollow Metal Work
5. Section 08412 - Aluminum Framed Entrance Doors

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

1. Chain link gates

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. Pre-installation Meeting:

1. Before hardware installation, General Contractor 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, and hollow metal 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. Convene one week or more prior to commencing work of this Section.
3. The Hardware Supplier shall include the cost of this meeting in his proposal.

D. Existing Openings:

1. Where existing openings, frames or doors are to remain, it is the responsibility of the finish hardware supplier to measure, verify and coordinate

all existing preparations to ensure compatibility with specified hardware items.

- 2. The finish hardware supplier will furnish all necessary accessories such as drop plates, panel adapters, spacers and supports, etc. as required to correctly install all finish hardware items.

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.

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. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- j. Typed Copy.
- k. Double-Spacing.
- l. 8-1/2 x 11 inch sheets
- m. 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. Submit to General Contractor, 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 shall keep these order acknowledgement numbers on file in the construction office.

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 Warranties:

- A. Refer to Division 1 for warranty requirements.
- B. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work. Replace work found to be defective as defined in the General Conditions.

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. Products of a BHMA member are 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 Aluminum frames;
 - 1) Ives 112HD
 - 2) Equal products by Hager & Select will also be accepted.

C. Flush Bolts:

1. Constant Latching: metal doors:
 - a. IR-Ives FB50 Series
 - b. Equal product of any B.H.M.A. member.
2. Manual - metal doors:
 - a. IR-Ives FB458 Series
 - b. Equal product of any B.H.M.A. member.
3. Dust Proof Strikes - furnish with all flush bolts, except at openings having thresholds:
 - a. IR-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 IR-Schlage L583-363.
5. Function numbers are IR-Schlage.
 - a. IR-Schlage L9000
6. Lockset Trim:
 - a. IR-Schlage 03A
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.

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.
 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. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
 10. 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.
 11. IR-Von Duprin 98 Series. Series and function numbers as listed in sets.
 12. Trim:
 - a. As specified in sets.
 - b. Levers to match lockset design where specified.

F. 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. IR-Ives COR x length to suit.
 - b. Equal products of any BHMA manufacturer

G. 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. IR-LCN Series as listed in sets.

H. 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. IR-Glynn-Johnson
 - b. Equal products of any BHMA manufacturer

I. Kick Plates:

1. Furnish .050 inches thick, beveled four sides, 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.

J. Wall Stops:

1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction.
 - a. IR-Ives WS447
 - b. BHMA L12011 or L12021

K. Thresholds:

1. 1/2" high - 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

L. 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

M. Door Sweeps:

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

N. Miscellaneous:

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

O. 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:

- 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. The Finish Hardware supplier will meet with Architect and/or Owner to finalize keying requirements and obtain keying instructions in writing.
 - 1. Supplier shall include the cost of this service in his proposal.
- C. Provide a cylinder for all hardware components capable of being locked.
- D. Provide cylinders master and grand master keyed to existing system according to Owner's instructions. Provide change keys, master keys and grand master keys as required by Owner.

PART 3 - EXECUTION

3.1 Installation

A. General:

- 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"
Levers	Door Manufacturer's Standard
Exit Device Touchbar	Per Template
Wall Stops/holders	At Head
Lock Protectors	Pull side of door

C. Field Quality Inspection:

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 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 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, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, and door closers.

3.2 Hardware Sets:

Hardware Group No. 01

A01A D13A












EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	112XY		710	IVE
1	EA	PANIC HARDWARE	CDSI-98-NL-OP-110MD		643e	VON
1	EA	PRIMUS RIM CYLINDER	20-757		643e	SCH
1	EA	PRIMUS MORT. CYL.	20-763		643e	SCH
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O		643e	IVE
1	EA	OH STOP	100S		613	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA MC (MOUNT TOP-JAMB)		695	LCN
1	EA	FLUSH CEILING MTG PLATE	4040XP-18G SRT		695	LCN
1	SET	WEATHER SEAL	(BY FRAME MFR)			
1	EA	DOOR SWEEP	39D		D	ZER
1	EA	THRESHOLD	65D-223		D	ZER

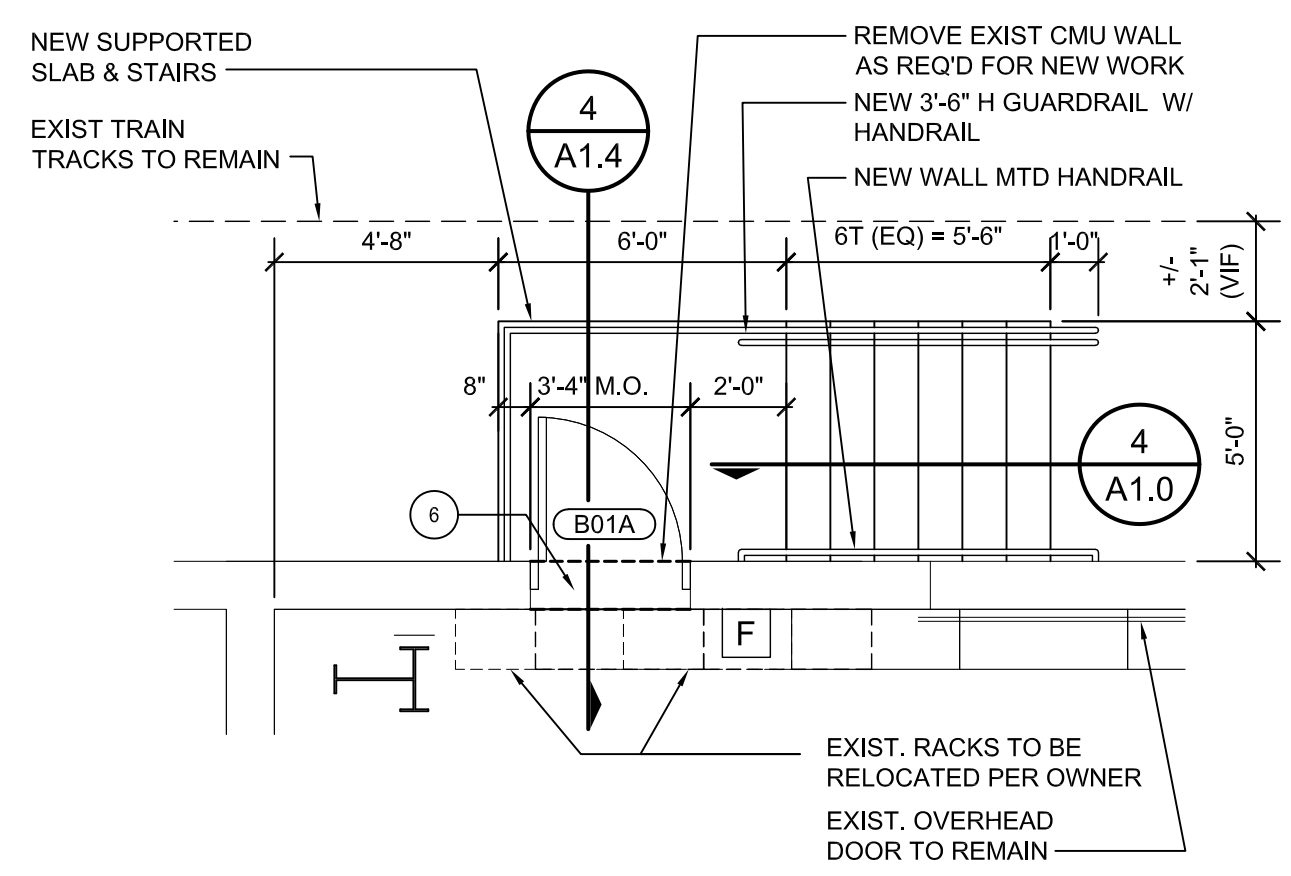
Hardware Group No. 02

B01A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	PANIC HARDWARE	CDSI-98-NL-OP-110MD		626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
1	EA	PRIMUS MORT. CYL.	20-763		626	SCH
1	EA	DOOR PULL	VR910 NL		630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH MCSRI		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	SET	GASKETING	429AA-S		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	65A-223		A	ZER

END OF SECTION



REMARKS - DOOR SCHEDULE

1	REMOVE & REPLACE EXIST ALUM DOOR & FRAME
2	REMOVE EXIST CMU WALL AS REQ'D FOR NEW DOOR & FRAME
3	

ABBREVIATIONS

AL	ALUMINUM
PFN	PRE-FINISHED

DOOR SCHEDULE

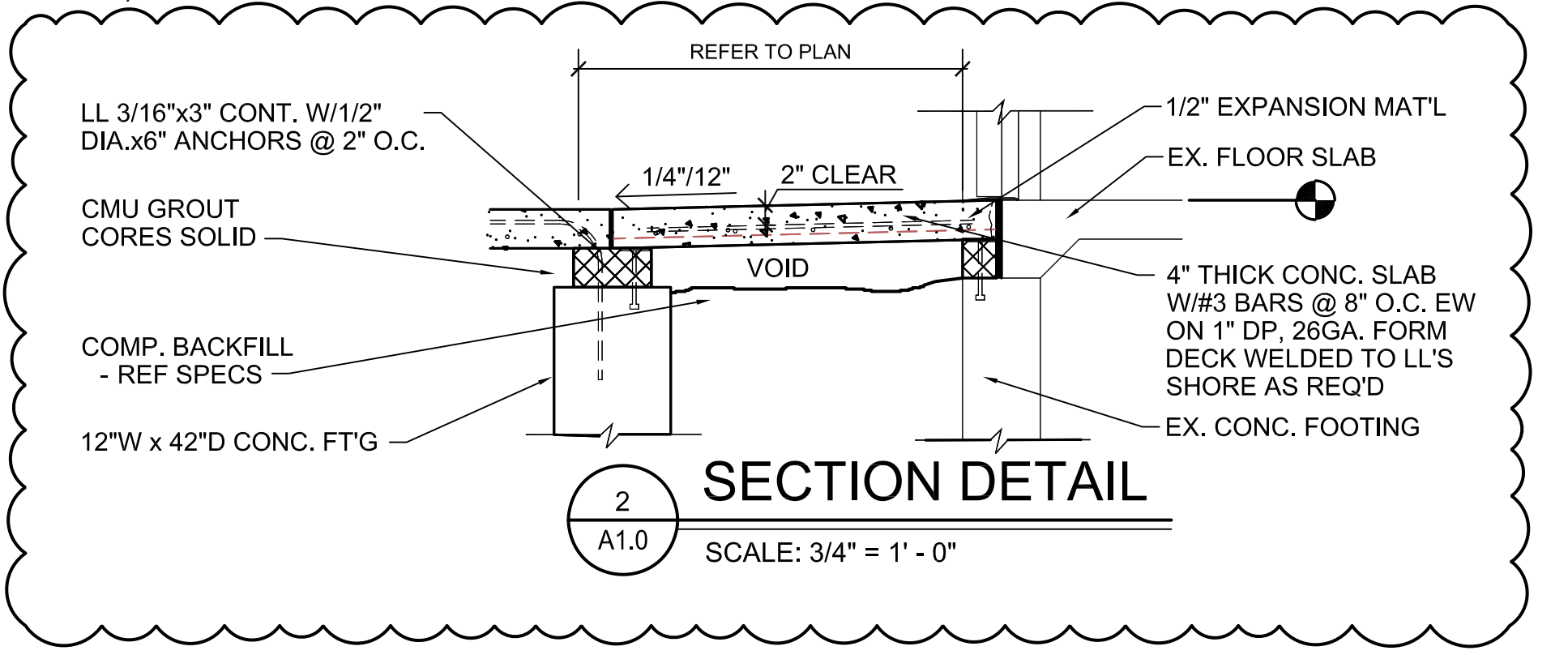
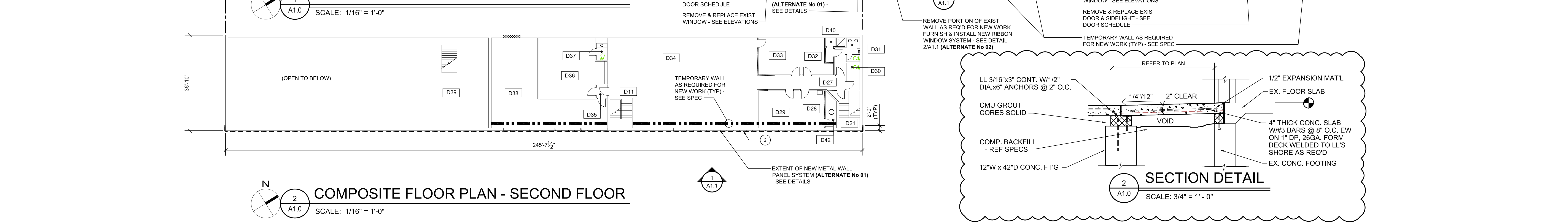
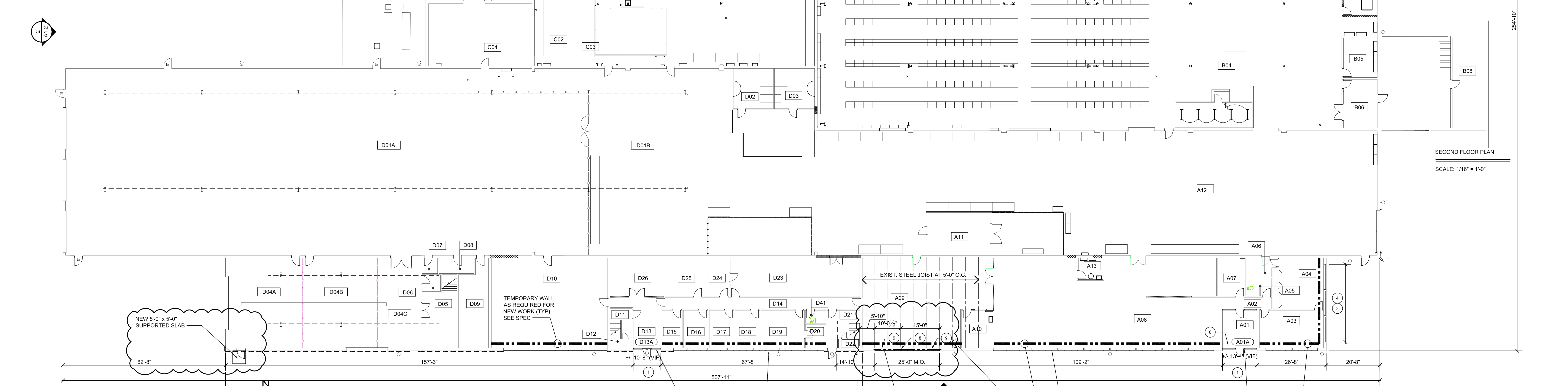
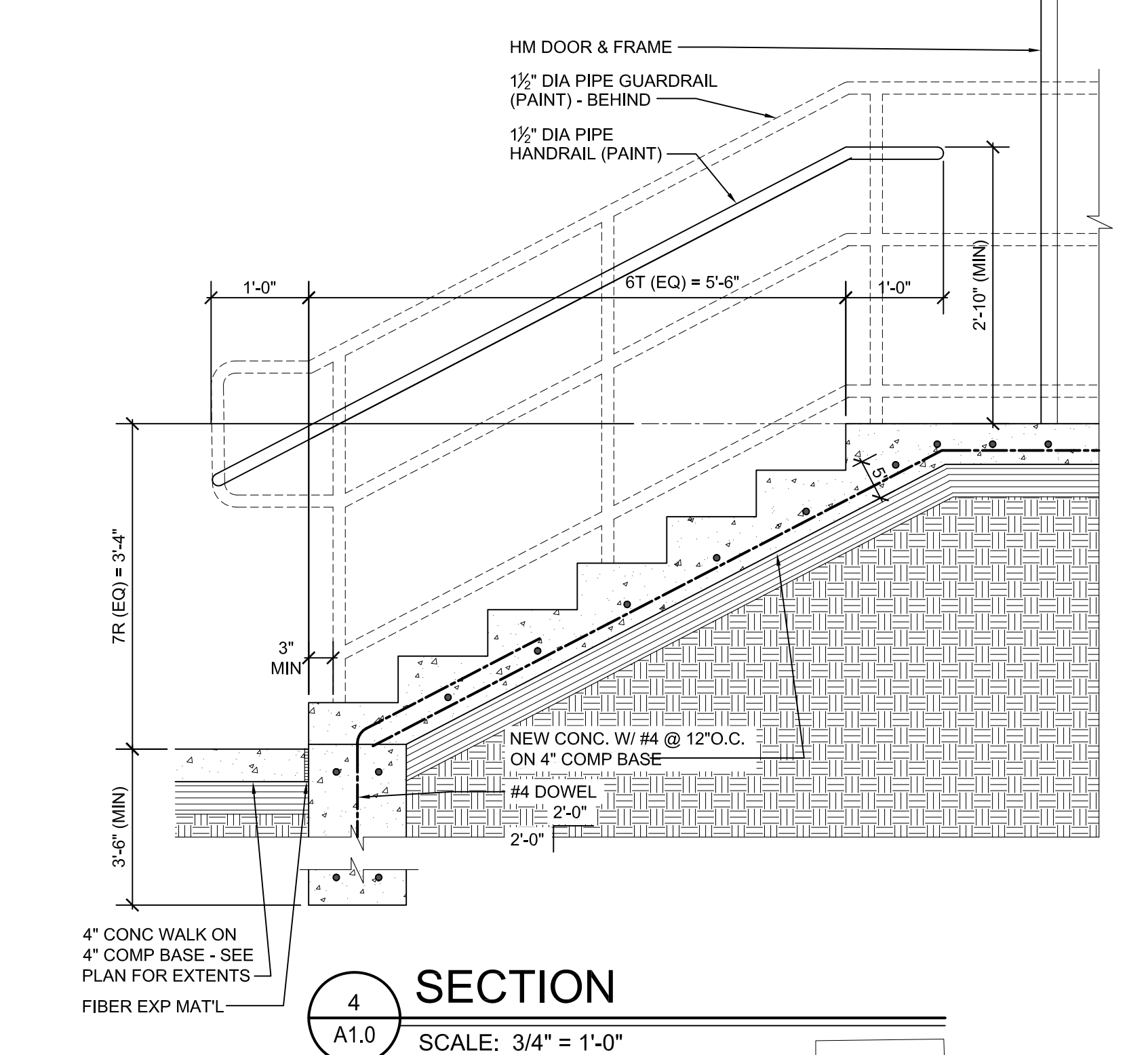
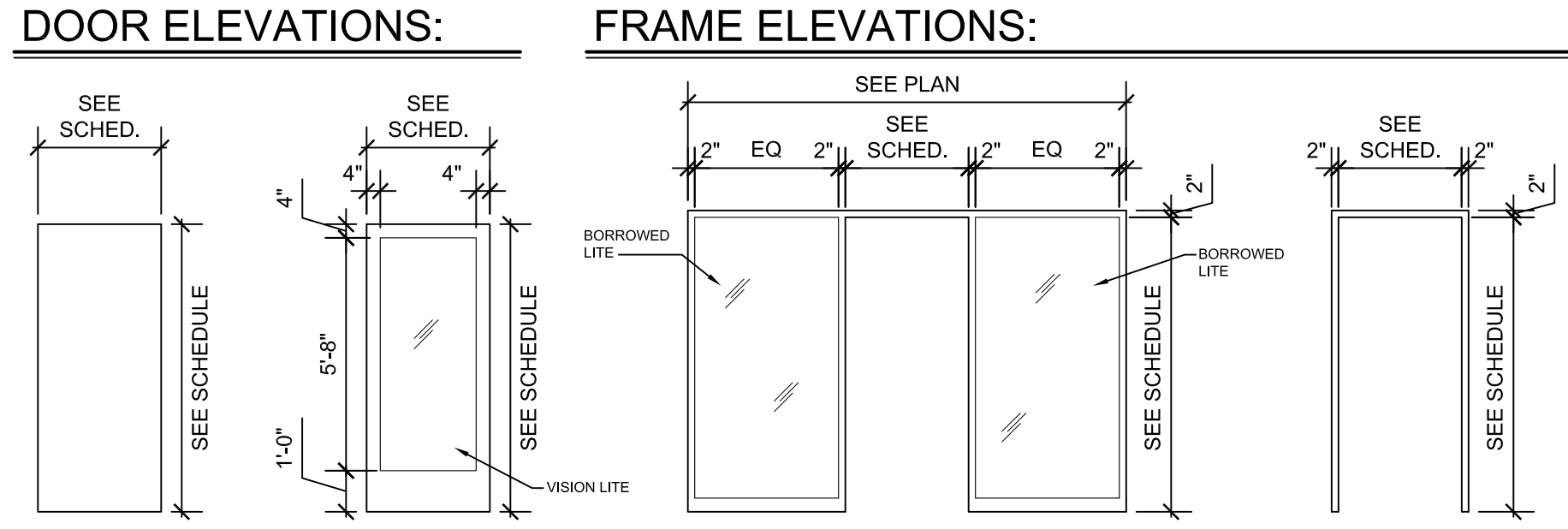
NO.	WIDTH	HEIGHT	DOOR		FRAME		DETAILS			THRESHOLD	U.L. LABEL	REMARKS
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD			
AREA "A"												
A01A	3'-0"	7'-2"	G	AL	PFN	1	AL	PFN	-	-	-	AL - 1
B01A	3'-0"	7'-2"	F	HM	PT	2	HM	PT	-	-	-	AL - 2
D13A	3'-0"	7'-2"	G	AL	PFN	1	AL	PFN	-	-	-	AL - 1
-	-	-	-	-	-	-	-	-	-	-	-	-

NEW WORK KEY NOTES - FLOOR PLAN:

- REMOVE AND REPLACE EXISTING ENTRY DOOR AND EXISTING STOREFRONT AS REQUIRED FOR NEW WORK - SEE PLANS & DOOR SCHEDULE FOR ADDITIONAL INFORMATION
- NEW METAL SIDING ON NEW SUB-FRAMING ON EXIST CMU WALL TO REMAIN - SEE ELEVATIONS FOR ADDITIONAL INFORMATION (ALTERNATE No 01)
- REMOVE & REPLACE EXISTING WINDOW SYSTEM AS REQUIRED FOR NEW WORK, BACKER ROD & SEALANT AT PERIMETER OF WINDOW SYSTEM COMPLETE - DO NOT BLOCK WEEPS.
- NEW AWNING VENT WINDOW LOCATION (2'-6" W x 1'-9" H) - COORD FINAL LOC W/ OWNER
- REMOVE EXIST INSUL GLASS UNIT & REPLACE W/ NEW AWNING VENT WINDOW (2'-6" W x 1'-9" H) - COORD FINAL LOC W/ OWNER
- CONCRETE REHABILITATION (SEE SPEC) AS REQUIRED FOR NEW WORK
- REMOVE EXIST BACKER ROD & SEALANT, FURNISH & INSTALL NEW BACKER ROD & SEALANT AS REQUIRED TO REMAIN.
- NEW HSS#4 COLS. W/ 1/2" CAP PLATE AT TOP AND 1/2" x 8" x 1/2" BASE PLATE W/ (2) 3/4" DIA. ANCHOR BOLTS INTO EXISTING WALL FOOTING (V.I.F.) ALIGN NEW COLUMN WITH EXIST. JOIST.
- NEW (2) W8x31 STEEL LINTEL W/ 1/2" x 11 1/2" x 10" BEARING PLATE AND (2) 3/4" DIA. - 6" LG. HEADED STUD AT CMU. CONNECT LINTEL WITH RIVETS INTO COLUMN.

GENERAL NOTES:

- NOTE TO THE CONTRACTOR(S): THREE (3) WORKING DAYS BEFORE YOU DIG, CALL MISS DIG TOLL FREE 1-800-482-7171 FOR UTILITY LOCATIONS ON THE GROUNDS.
- COORDINATE WORK WITH MR. GARY NILSON OF MACOMB COUNTY FACILITIES & OPERATIONS (586-469-0099), THREE (3) DAYS PRIOR TO COMMENCING.
- PROVIDE PROTECTION FOR FIXED EQUIPMENT AND VEGETATION DURING CONSTRUCTION. REPAIR AND/OR REPLACE EQUIPMENT OR MATERIAL DAMAGED DURING THE CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS/HER OPERATION AND RESTORE ALL AREAS TO THE ORIGINAL CONDITIONS.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS IN THE FIELD.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AS REQ'D BY THE CITY, TOWNSHIP, OR COUNTY.
- ALL EXISTING DIMENSIONS SHOWN ON PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- PATCH, PREP, & PAINT ALL AREAS DISTURBED BY CONSTRUCTION / RESTORATION.
- PREP & PAINT EXISTING CONSTRUCTION TO MATCH EXISTING AT ALL AREAS OF DEMO'D MECH / ELEC FIXTURES (I.E. SURFACE MOUNTED LIGHTS, EXIT LIGHTING, ELEC PANELS, ETC.).
- REMOVE & REPLACE EXISTING ACOUSTIC CEILING TILES AS REQUIRED FOR NEW WORK - SEE MECH & ELEC DWGS.
- REMOVE & REINSTALL ALL EXIST SURFACE MOUNTED EQUIPMENT AS REQUIRED FOR NEW METAL WALL PANELS (ALTERNATE No 01)



30500 VAN DYKE AVENUE
SUITE 209
WARREN, MICHIGAN 48093
PH: 586.573.4100
FX: 586.573.0822
www.WakelyAIA.com

MACOMB COUNTY BOARD OF COMMISSIONERS
2023 MASONRY RESTORATION
HALL ROAD FACILITY & COMTEC

HALL ROAD FACILITY - COMPOSITE PLAN

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY: JMS
CHECKED BY: RAS

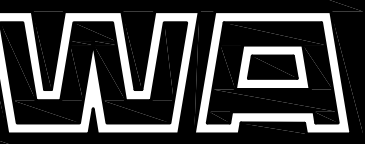
REVISIONS

NO.	DATE	DESCRIPTION
1	06/07/2023	ADDENDUM NO. 1

DATE: MAY 30, 2023
SHEET NO.
A1.0
JOB NO. 221978

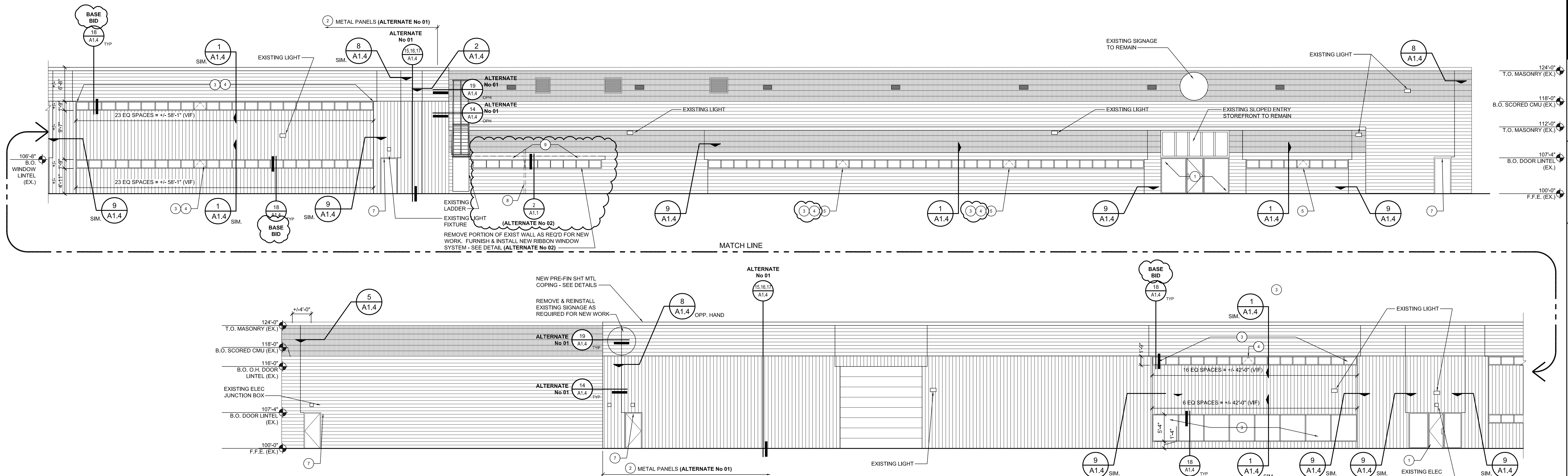
GENERAL SHEET NOTES:

1. REFER TO SHEET A1.0 FOR KEYNOTE INFORMATION



WAKELY ASSOCIATES, INC.
ARCHITECTS

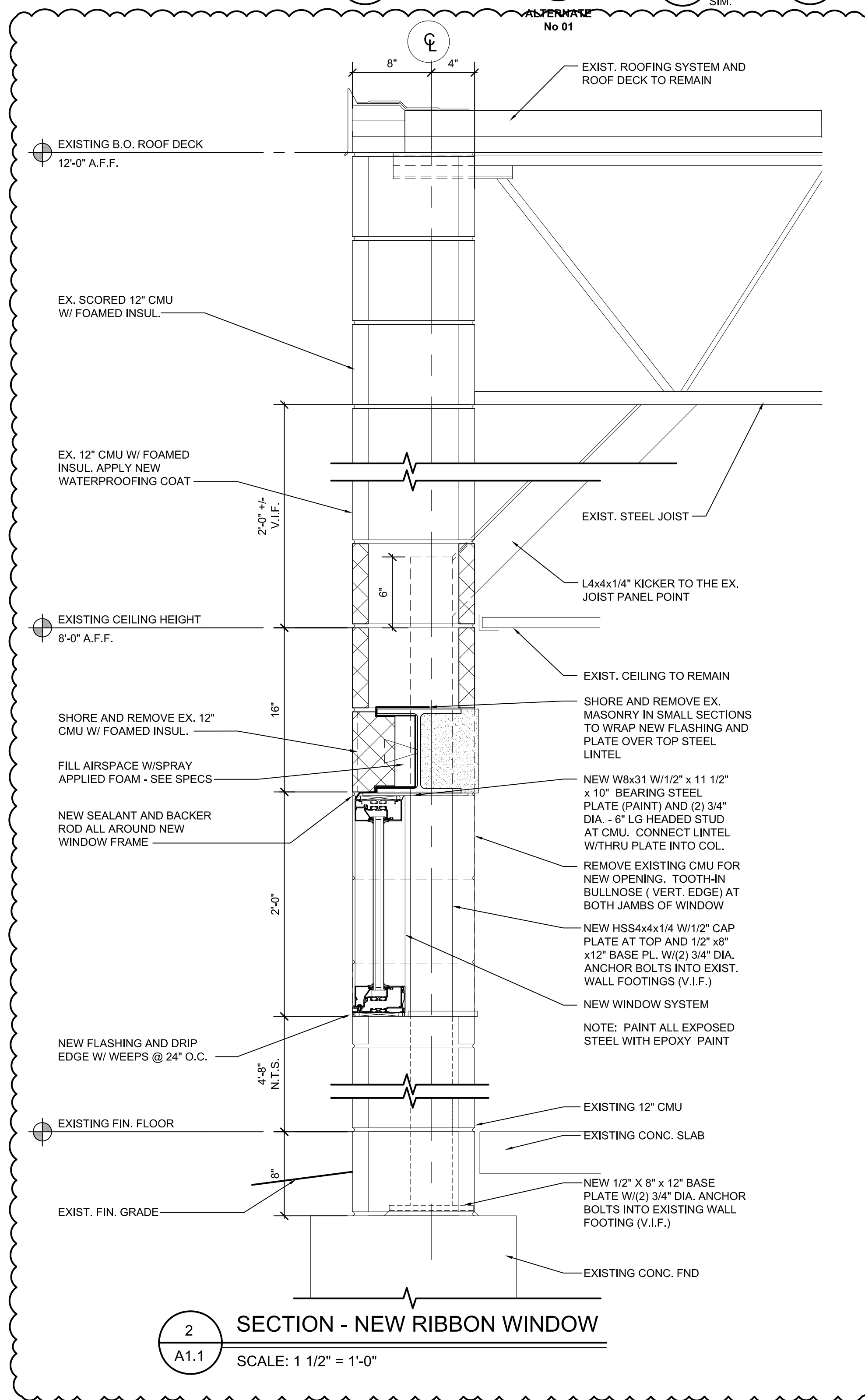
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1 SOUTH EAST ELEVATION

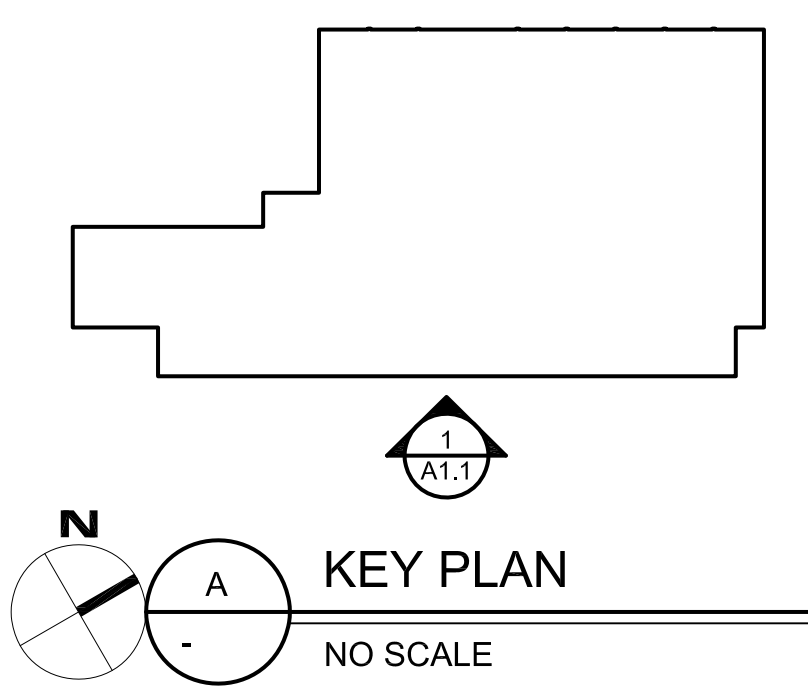
SCALE: 1/8" = 1'-0"

- TYPICAL NOTES:**
- EXISTING WALL PACK LIGHT FIXTURES TO BE TEMPORARILY REMOVED AND REINSTALLED TO FACILITATE NEW BUILDING FASCIA. PROVIDE EXTENSION BOX AS REQUIRED
 - REMOVE EXIST. PAINT, PATCH, PREP, AND APPLY SILICONE ELASTOMERIC COATING TO ALL ELEVATIONS



2 SECTION - NEW RIBBON WINDOW

SCALE: 1 1/2" = 1'-0"



MACOMB COUNTY BOARD OF COMMISSIONERS
2023 MASONRY RESTORATION
HALL ROAD FACILITY & COMTEC

HALL ROAD FACILITY - ELEVATIONS

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: JMS
CHECKED BY: RAS

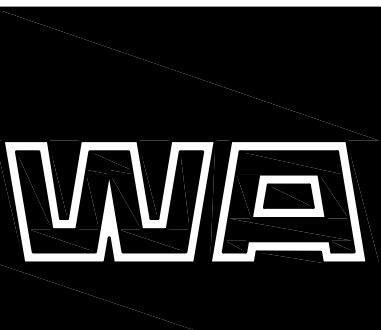
REVISIONS

ADDENDUM NO. 1 06/07/2023

DATE: MAY 30, 2023
SHEET NO.

A1.1

JOB NO. 221978



WAKELY ASSOCIATES, INC.
ARCHITECTS

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MACOMB COUNTY BOARD OF COMMISSIONERS
2023 MASONRY RESTORATION
HALL ROAD FACILITY & COMTEC

HALL ROAD FACILITY -
ELEVATIONS

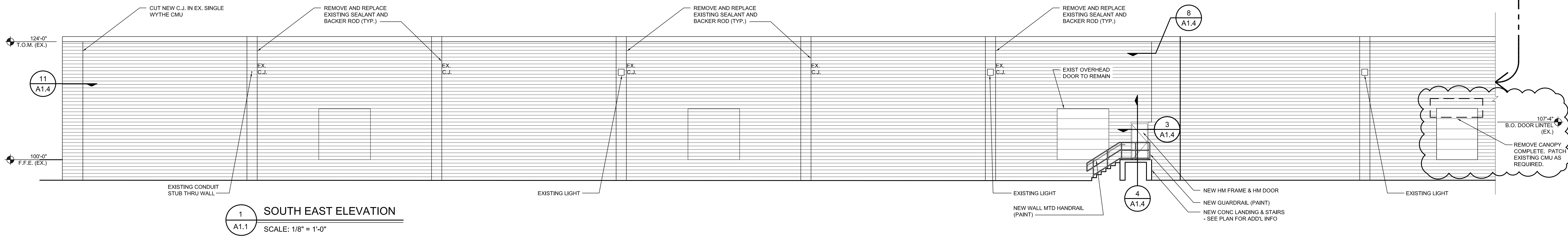
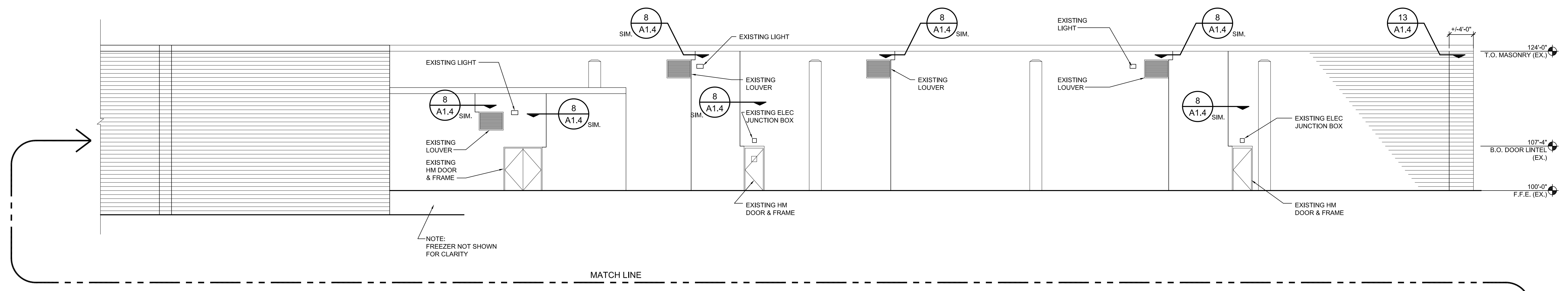
PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

DRAWN BY: JMS
CHECKED BY: RAS
REVISIONS
ADDENDUM NO. 1 06/09/2023

DATE: MAY 30, 2023
SHEET NO.

A1.3

JOB NO.
221978



1 SOUTH EAST ELEVATION
SCALE: 1/8" = 1'-0"

- TYPICAL NOTES:**
- EXISTING WALL PACK LIGHT FIXTURES TO BE TEMPORARILY REMOVED AND REINSTALLED TO FACILITATE NEW BUILDING FASCIA. PROVIDE EXTENSION BOX AS REQUIRED.
 - REMOVE EXIST PAINT, PATCH, PREP, AND APPLY SILICONE ELASTOMERIC COATING TO ALL ELEVATIONS.

