



PENNSYLVANIA CONVENTION CENTER

EXHIBIT HALL & EXTERIOR DOOR REPLACEMENT

1101 ARCH STREET
 PHILADELPHIA, PENNSYLVANIA 19107

100% SUBMISSION
 DECEMBER 9, 2021

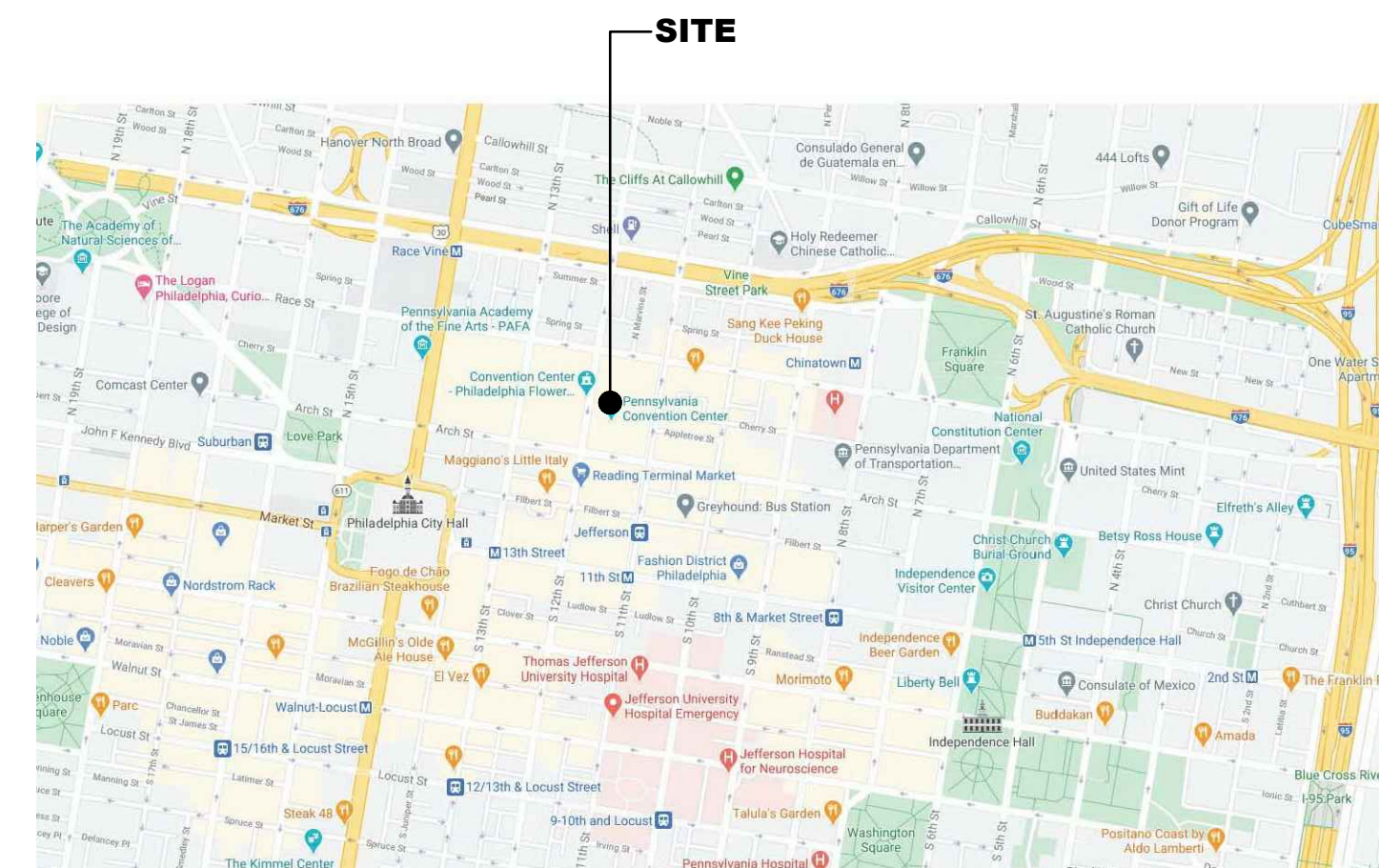
VITETTA

ARCHITECTURE | ENGINEERING | PLANNING | HISTORIC PRESERVATION



J+M ENGINEERING

ENGINEERING



VICINITY MAP

CONSULTANTS

SEAL

PROJECT # 6309-20
 ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS
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PROJECT TITLE

PENNSYLVANIA CONVENTION CENTER
 EXHIBIT HALL AND EXTERIOR
 DOOR REPLACEMENT
 1101 ARCH STREET
 PHILADELPHIA, PA 19107

DRAWING TITLE

COVER SHEET

APPLICABLE C O D E S

| | |
|---|---|
| 01) PHILADELPHIA BUILDING CODE | "INTERNATIONAL BUILDING CODE 2018" |
| 02) PHILADELPHIA EXISTING BUILDING CODE | "INTERNATIONAL EXISTING BUILDING CODE 2018" |
| 03) PHILADELPHIA ENERGY CONSERVATION CODE | "INTERNATIONAL ENERGY CONSERVATION CODE 2018" |
| 04) PHILADELPHIA FIRE CODE | "INTERNATIONAL FIRE CODE 2018" |
| 05) PHILADELPHIA ELECTRICAL CODE | "NFPA 70-2017, NATIONAL ELECTRICAL CODE" |
| 06) ACCESSIBILITY CODE | 2018 IBC CHAPTER 11 & ICC/ANSI 117.1 2017 EDITION |

SYMBOLS LEGEND

| | | | |
|----------|----------------------|--|-------------------------|
| CORRIDOR | ROOM NAME AND NUMBER | | NEW SINGLE DOOR |
| | | | EXISTING DOOR TO REMAIN |
| | DOOR NUMBER | | |
| | KEY NOTE | | |

LIST OF DRAWINGS

| | |
|----------------------|-------------------------------------|
| CS-101 | COVER SHEET |
| ARCHITECTURAL | |
| A-101 | STREET LEVEL DOOR REPLACEMENT PLAN |
| A-102 | HALL LEVEL DOOR REPLACEMENT PLAN |
| A-103 | DOOR & FRAME TYPES & DETAILS |
| A-201 | FLOOR PLAN & EXISTING DOOR PHOTOS |
| A-202 | DOOR SCHEDULE, DOOR TYPES & DETAILS |

| | |
|-------------------|--|
| ELECTRICAL | |
| E-000 | ELECTRICAL COVER SHEET |
| E-400 | ELECTRICAL STREET LEVEL POWER & SYSTEMS PLAN |
| E-401 | ELECTRICAL STREET LEVEL POWER & SYSTEMS PLAN |
| E-402 | ELECTRICAL HALL LEVEL EXHIBIT HALLS POWER & SYSTEMS PLAN |
| E-700 | ELECTRICAL DETAILS & SCHEDULES |

| | |
|----------|------------------|
| SCALE | AS NOTED |
| DRAWN | CKD |
| CHECKED | DRV |
| APPROVED | NRG |
| DATE | DECEMBER 9, 2021 |

| | | |
|-----------|------|-------------|
| REVISIONS | | |
| SYMBOL | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |

DRAWING #

CS-101

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DRAWING TITLE

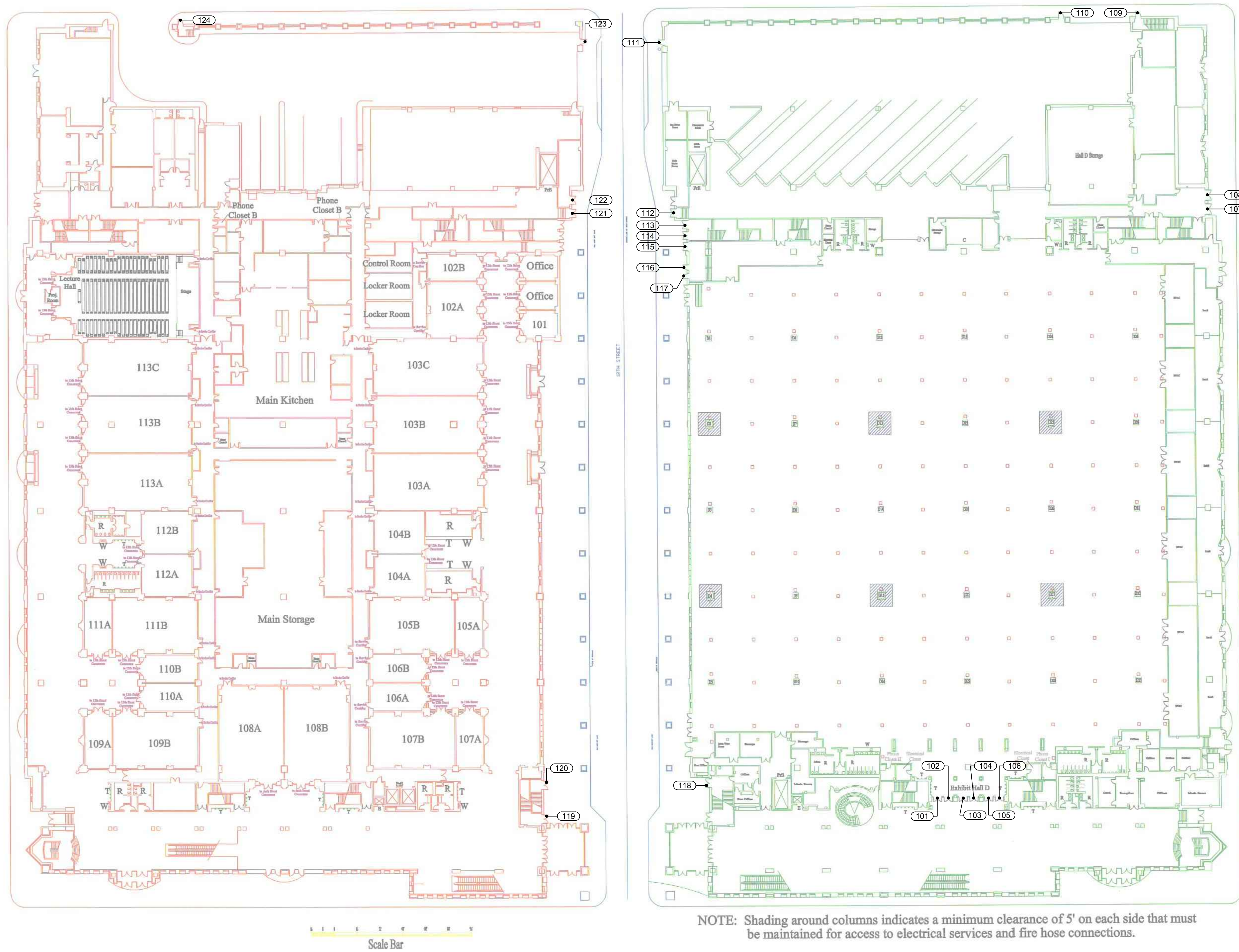
**STREET LEVEL
 DOOR REPLACEMENT
 PLAN**

SCALE AS NOTED
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE JUNE 26, 2021

| REVISIONS | SYMBOL | DATE | DESCRIPTION |
|-----------|--------|------|-------------|
| | | | |
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| | | | |
| | | | |

DRAWING #

A-101



KEY
 T Telephone
 A Restroom
 W Water Fountain
 E Elevator
 PHG Freight Elevator
 C Corridor
 F Fire Hose Connection

Scale Bar

NOTE: Shading around columns indicates a minimum clearance of 5' on each side that must be maintained for access to electrical services and fire hose connections.

ADD ALT. NO. 1

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 DOOR REPLACEMENT**
 1101 ARCH STREET
 PHILADELPHIA, PA 19107

DRAWING TITLE

**HALL LEVEL
 DOOR REPLACEMENT
 PLAN**

SCALE AS NOTED
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE JUNE 25, 2021

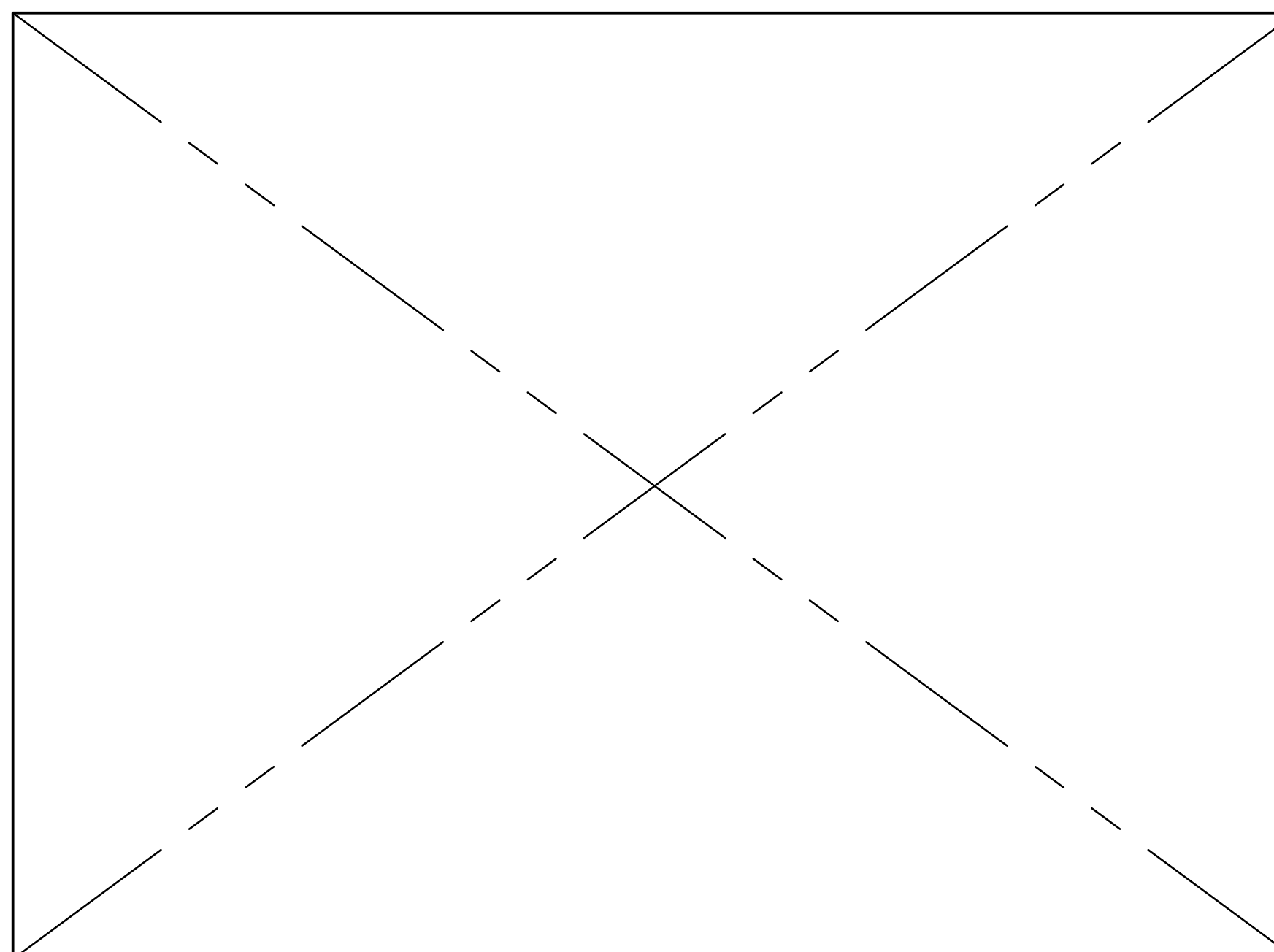
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DRAWING #

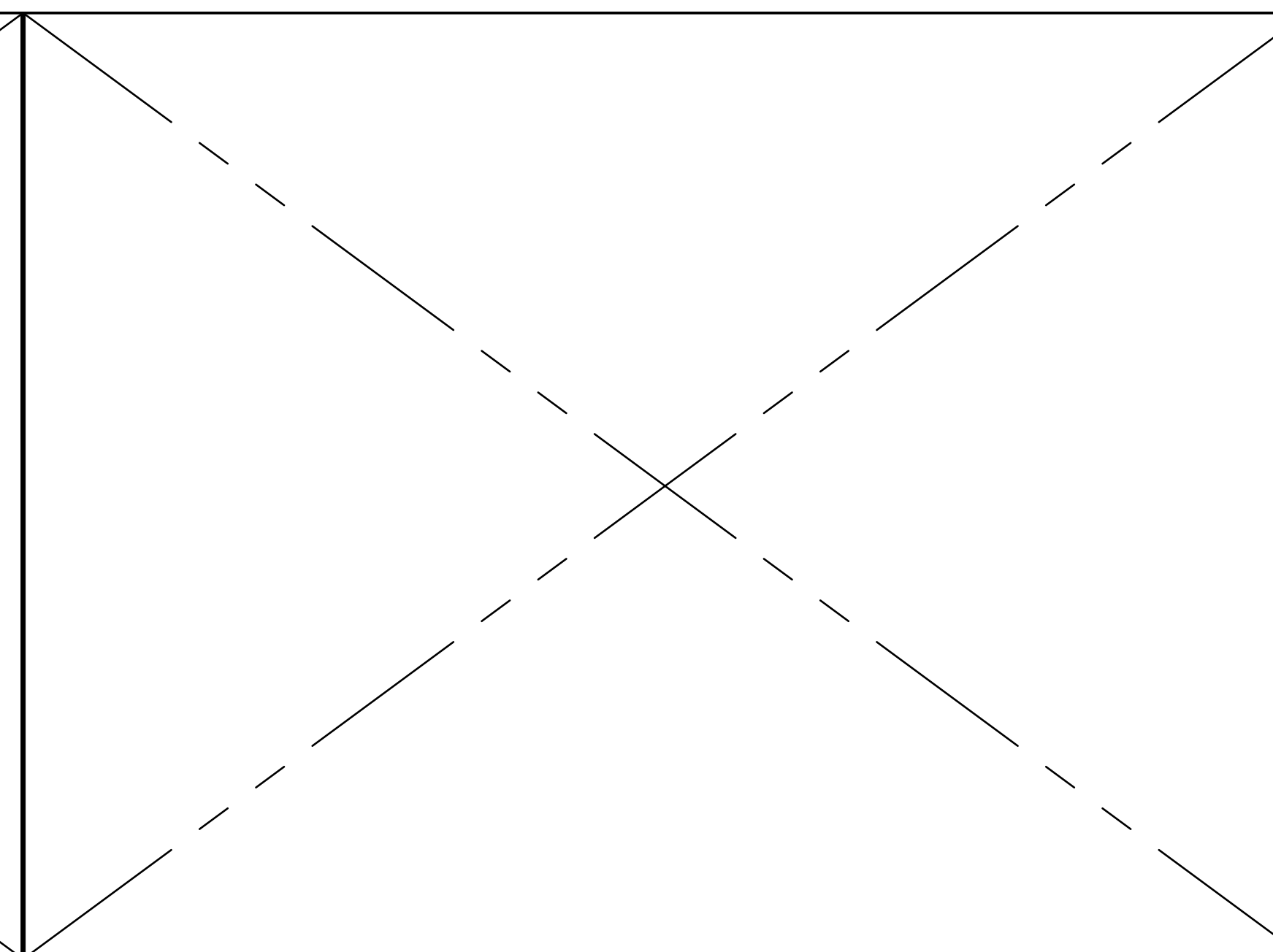
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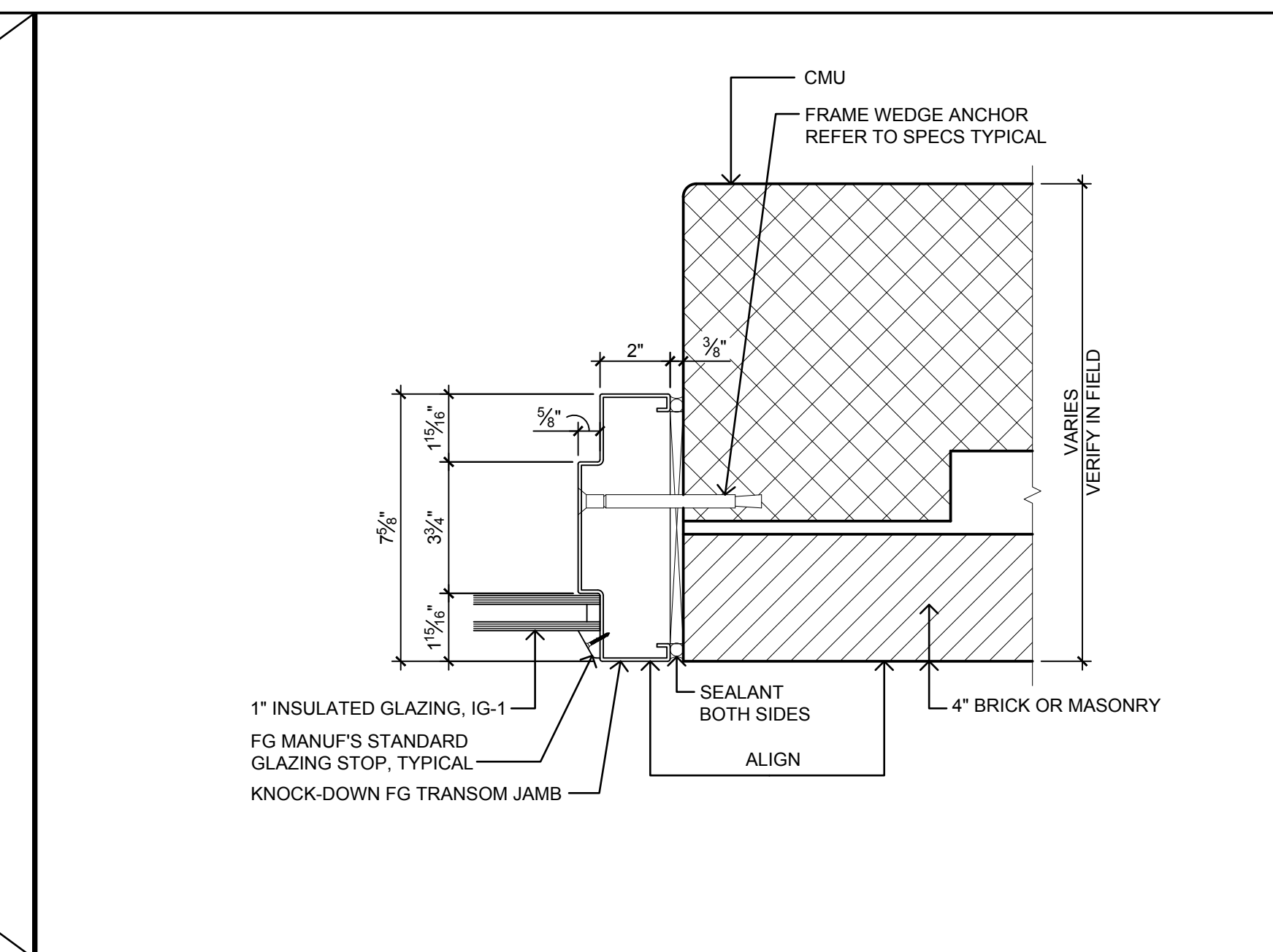
BASE BID



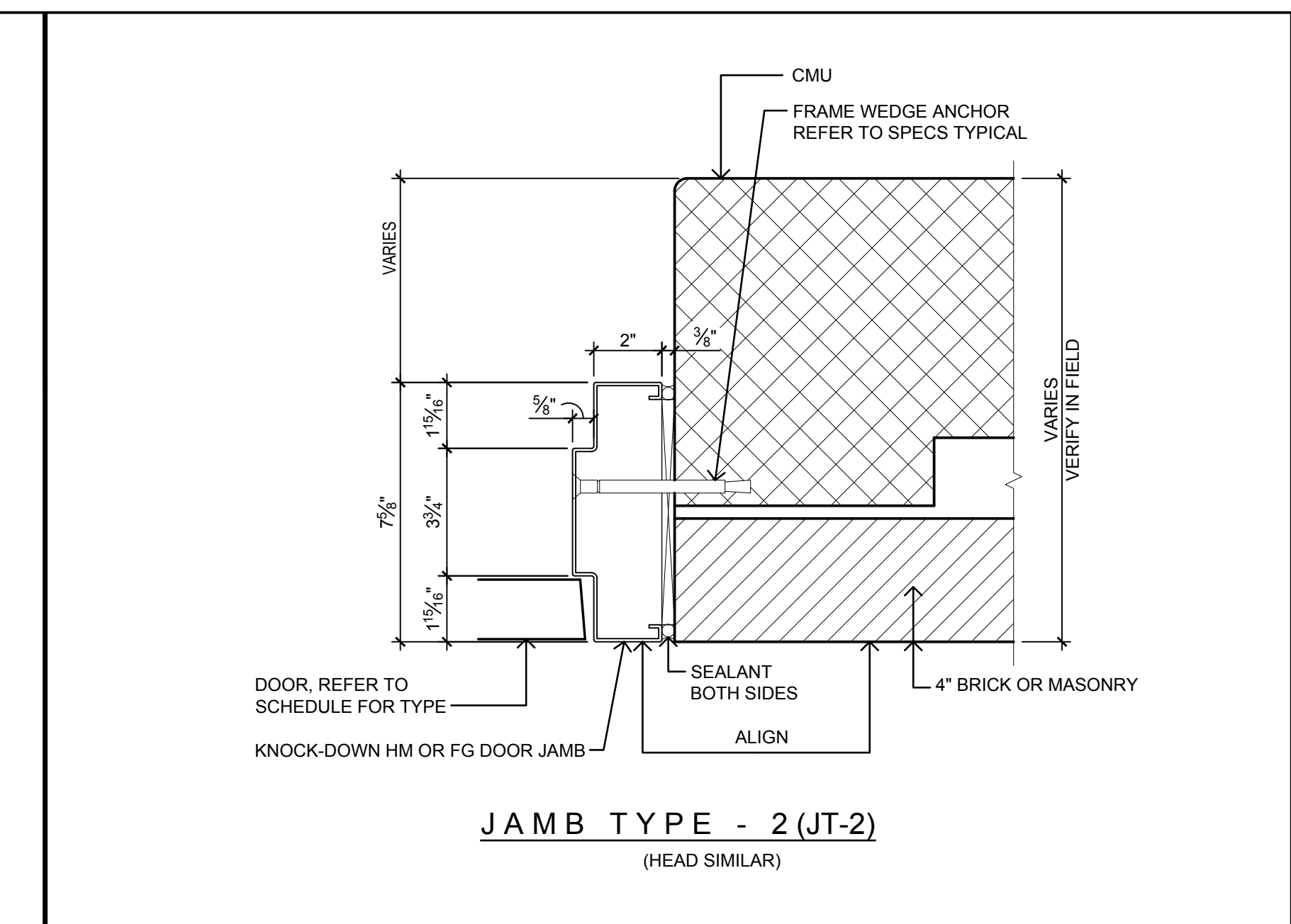
SCALE 3/4"=1'-0"
NOT USED 14



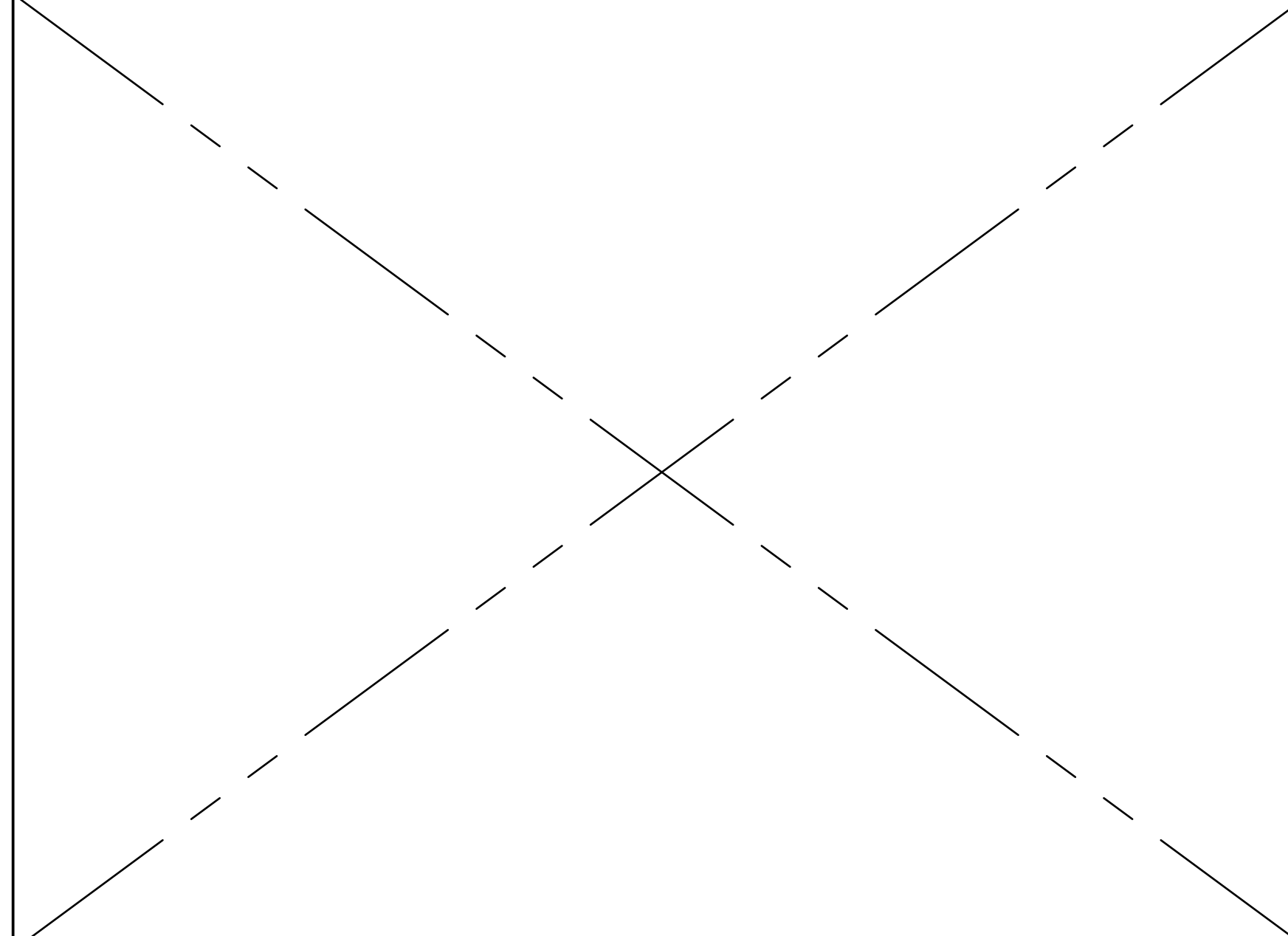
SCALE N/A
NOT USED 11



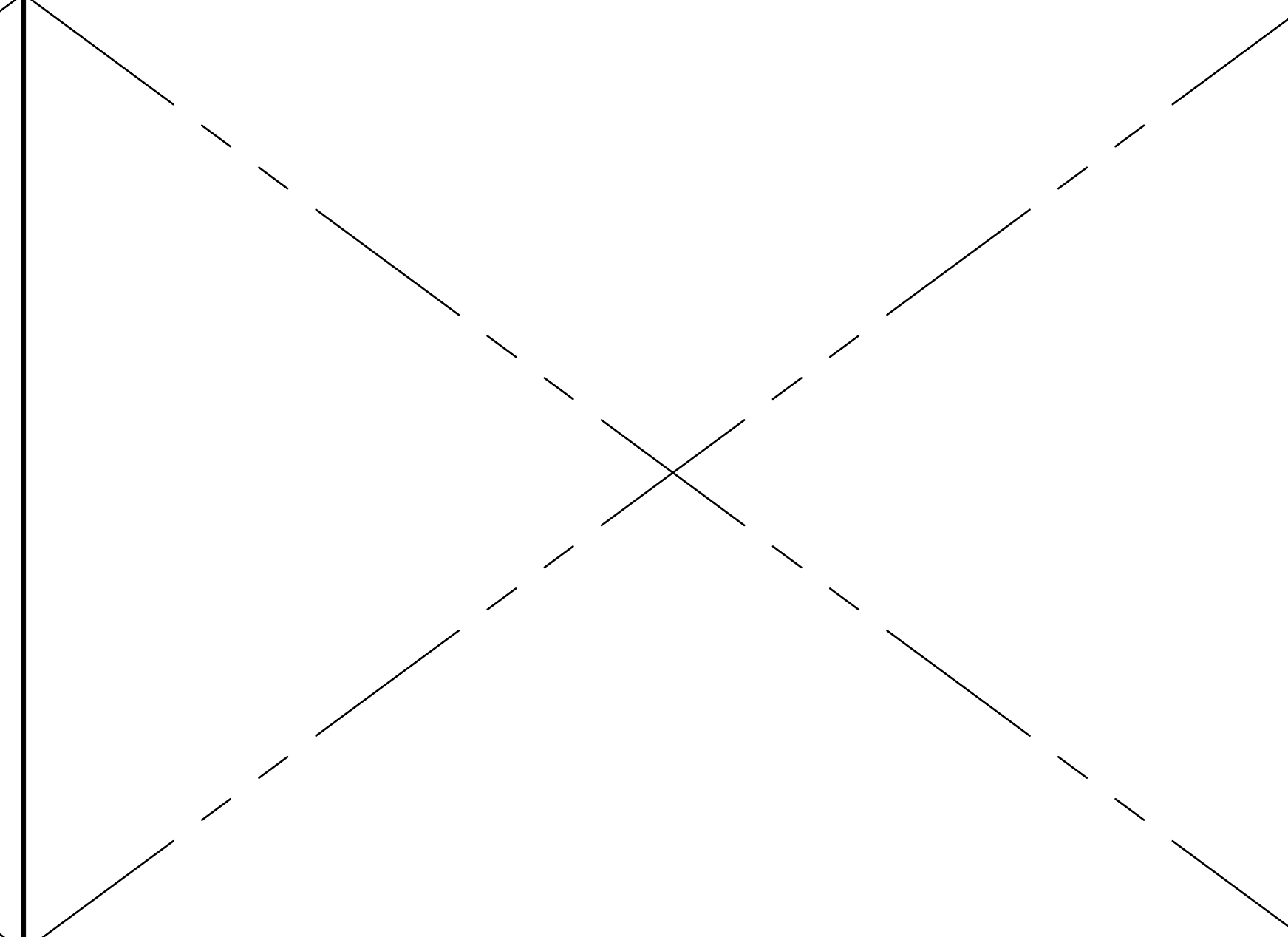
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DETAIL: TRANSOM JAMB 08



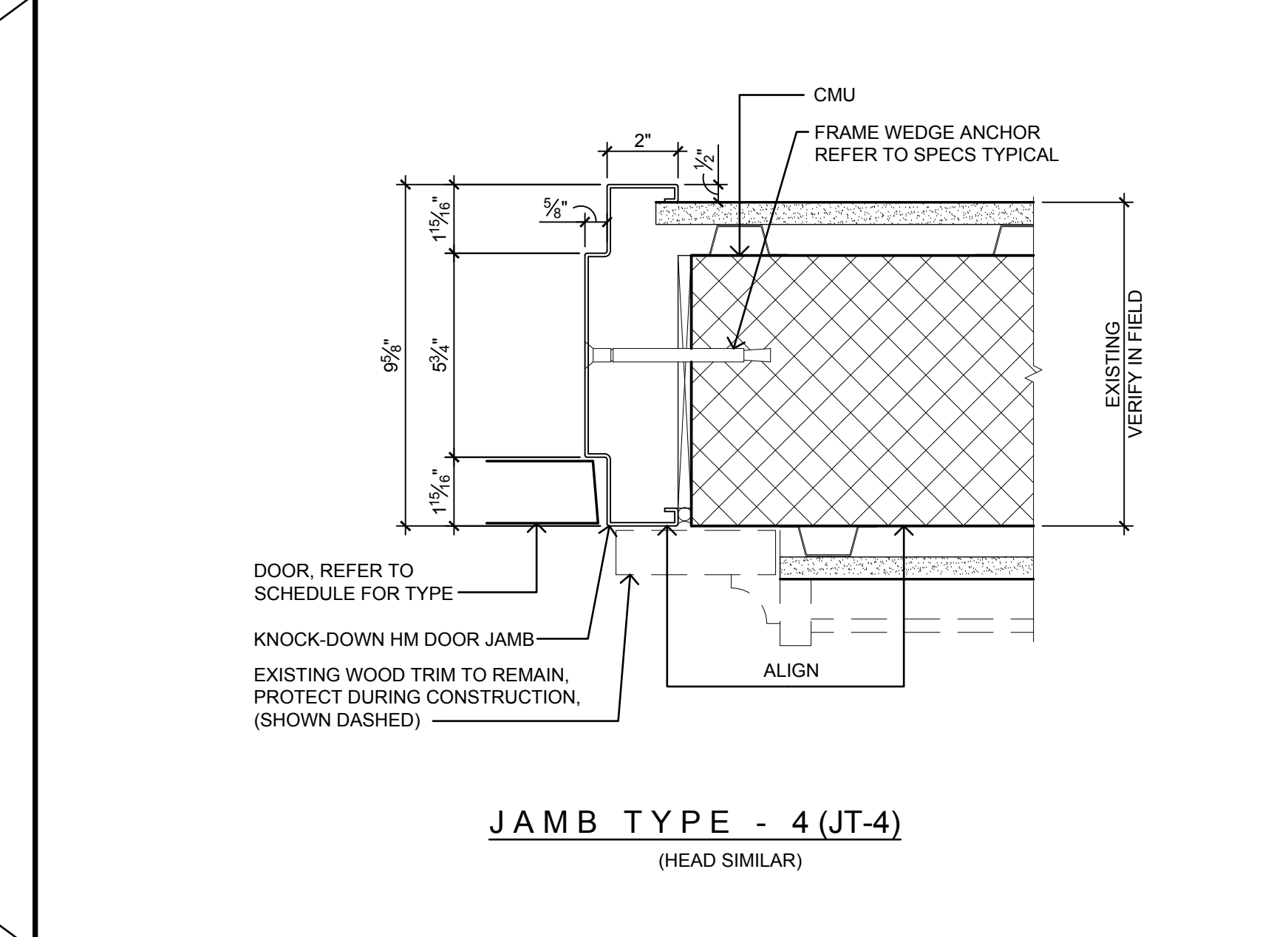
SCALE 3/4"=1'-0"
DOOR JAMB TYPE-2 05



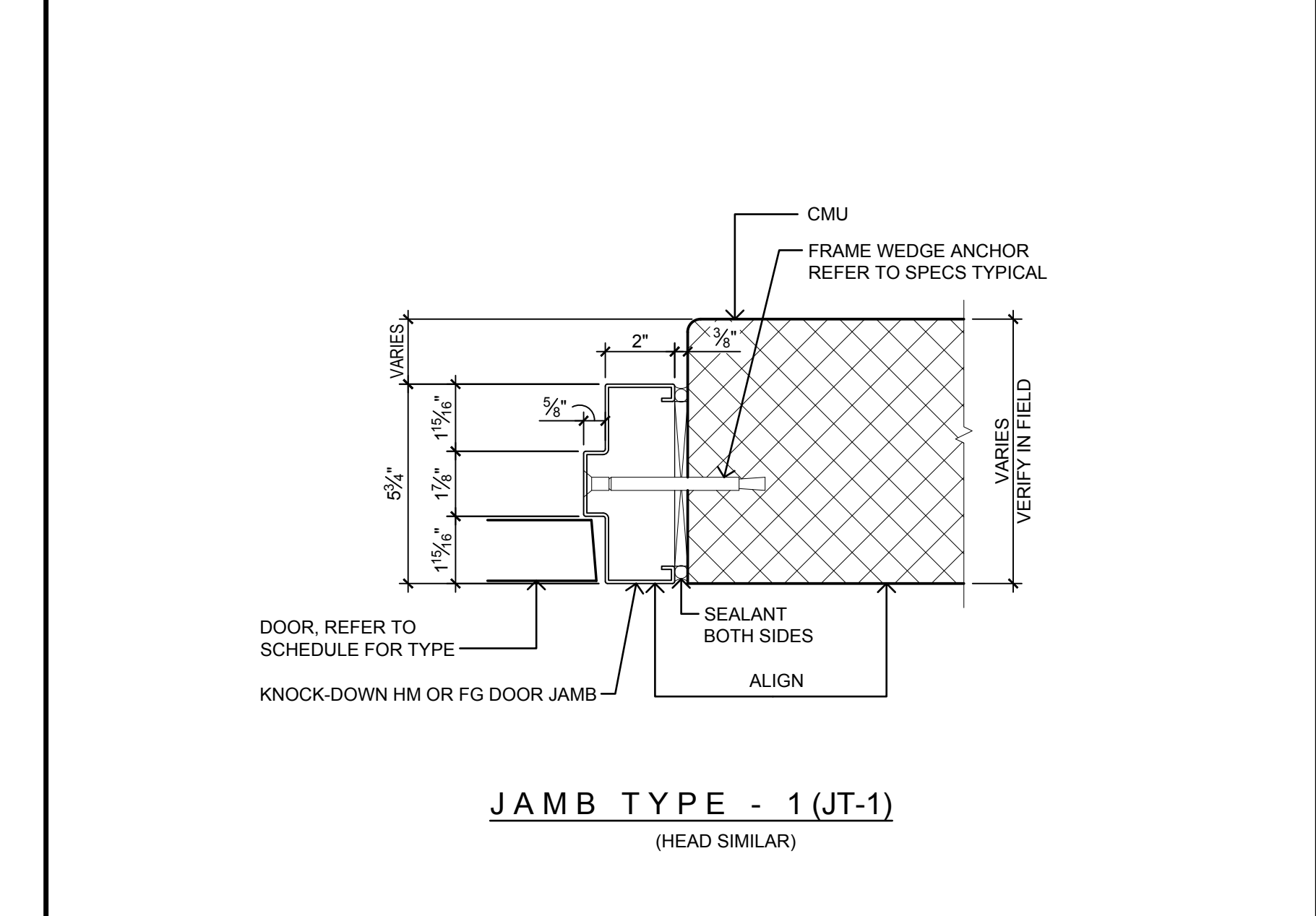
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NOT USED 13



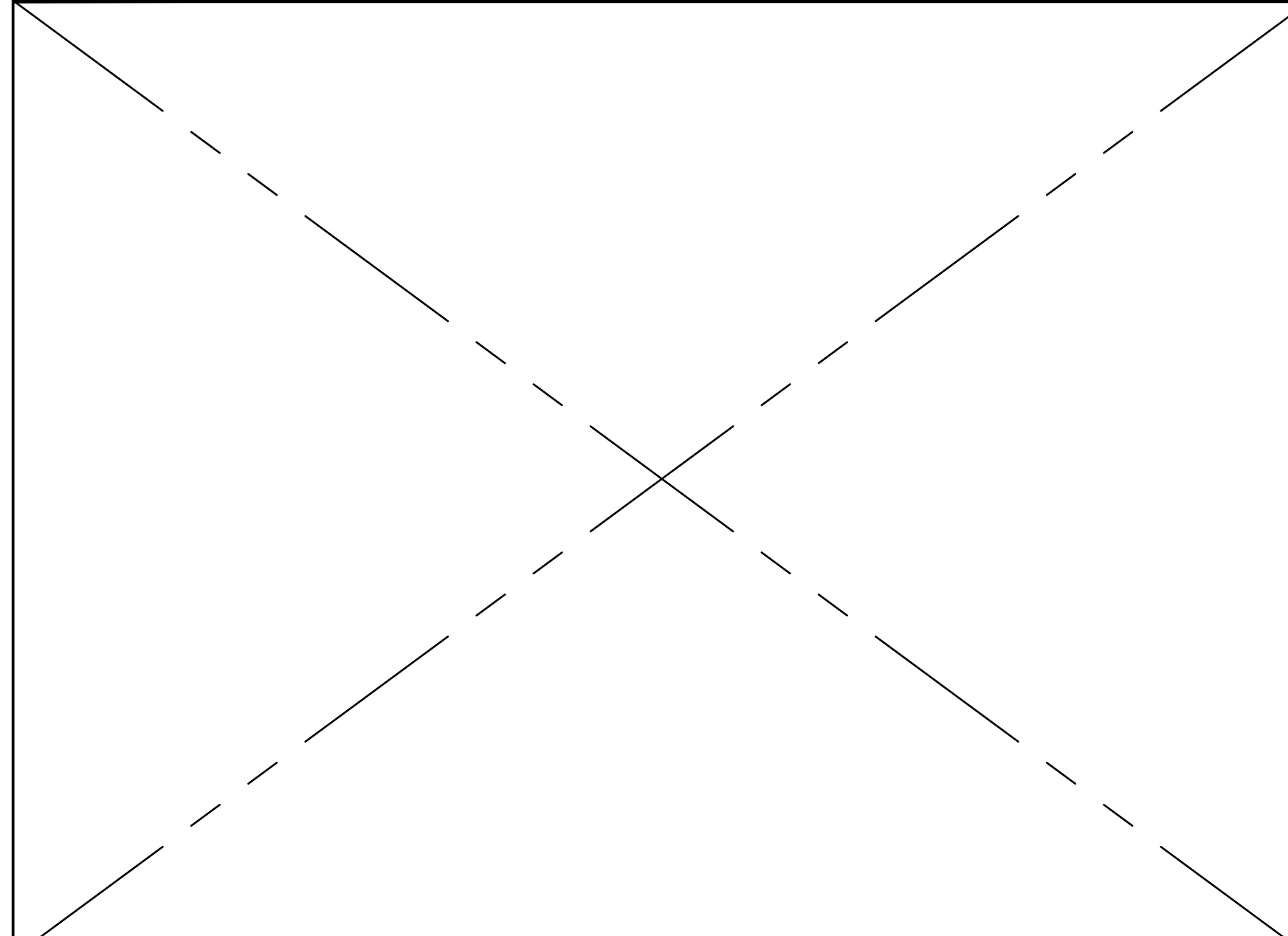
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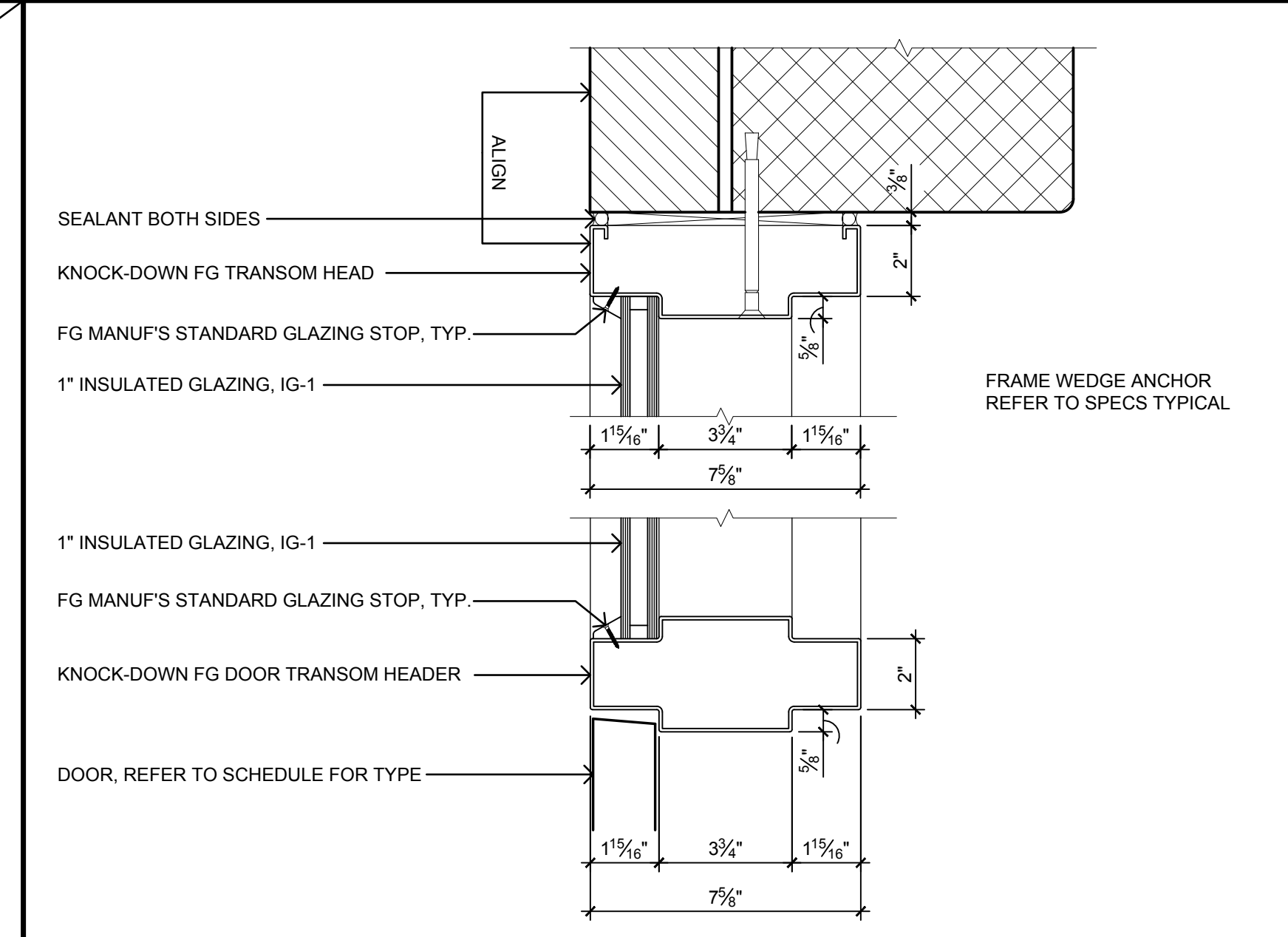
SCALE N/A
DOOR JAMB TYPE-4 07



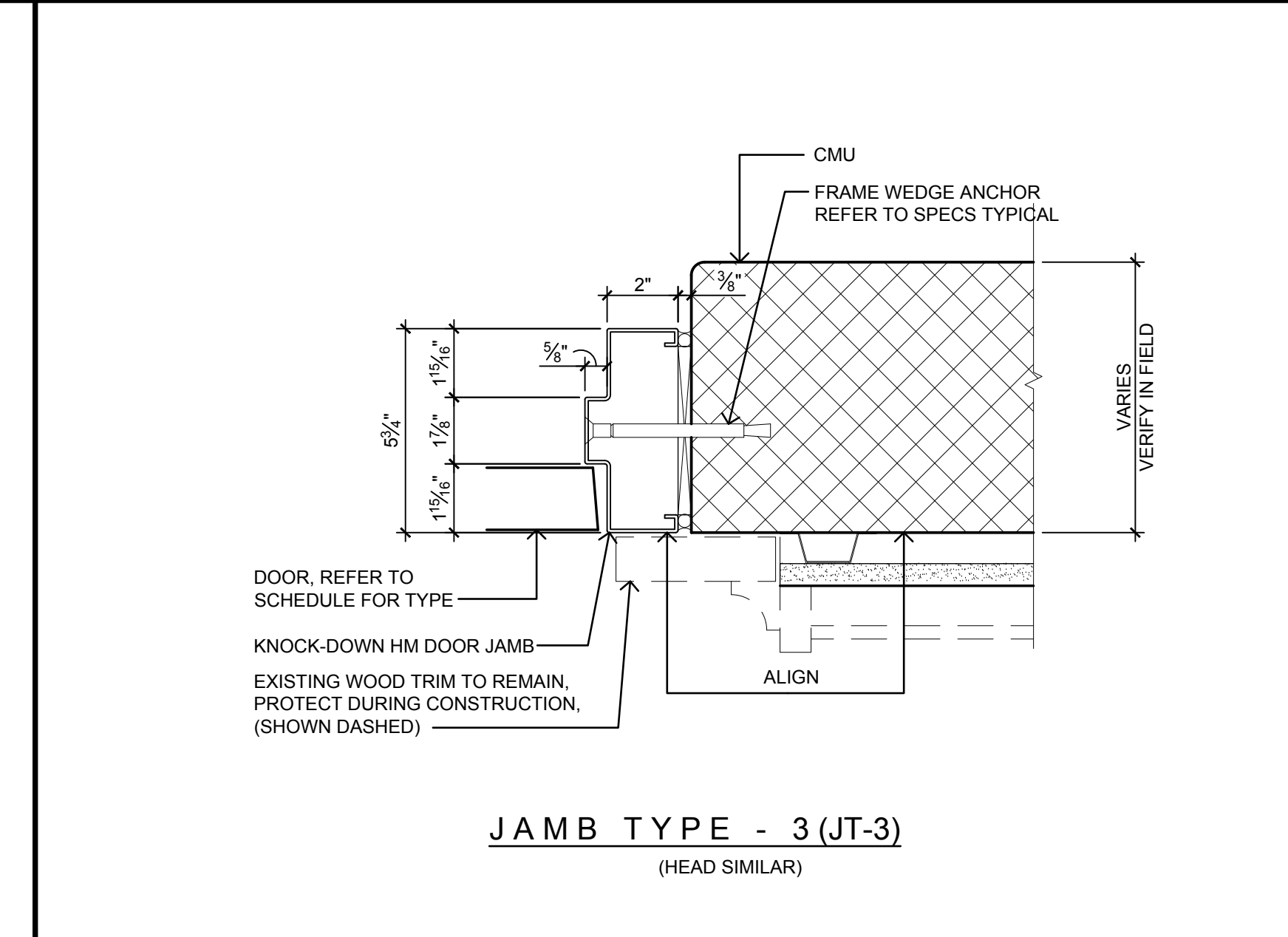
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DOOR JAMB TYPE-1 04



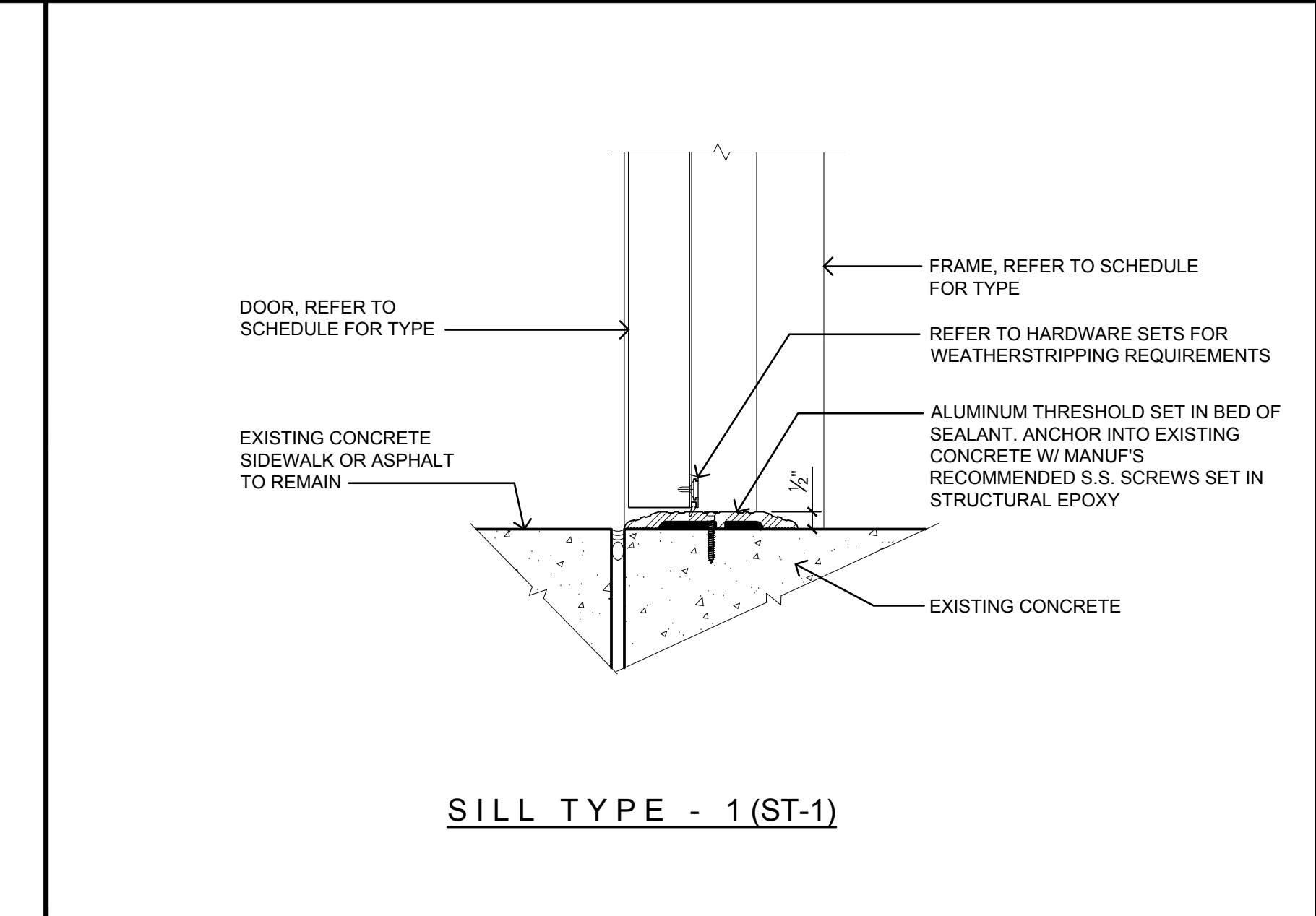
SCALE 3/4"=1'-0"
NOT USED 12



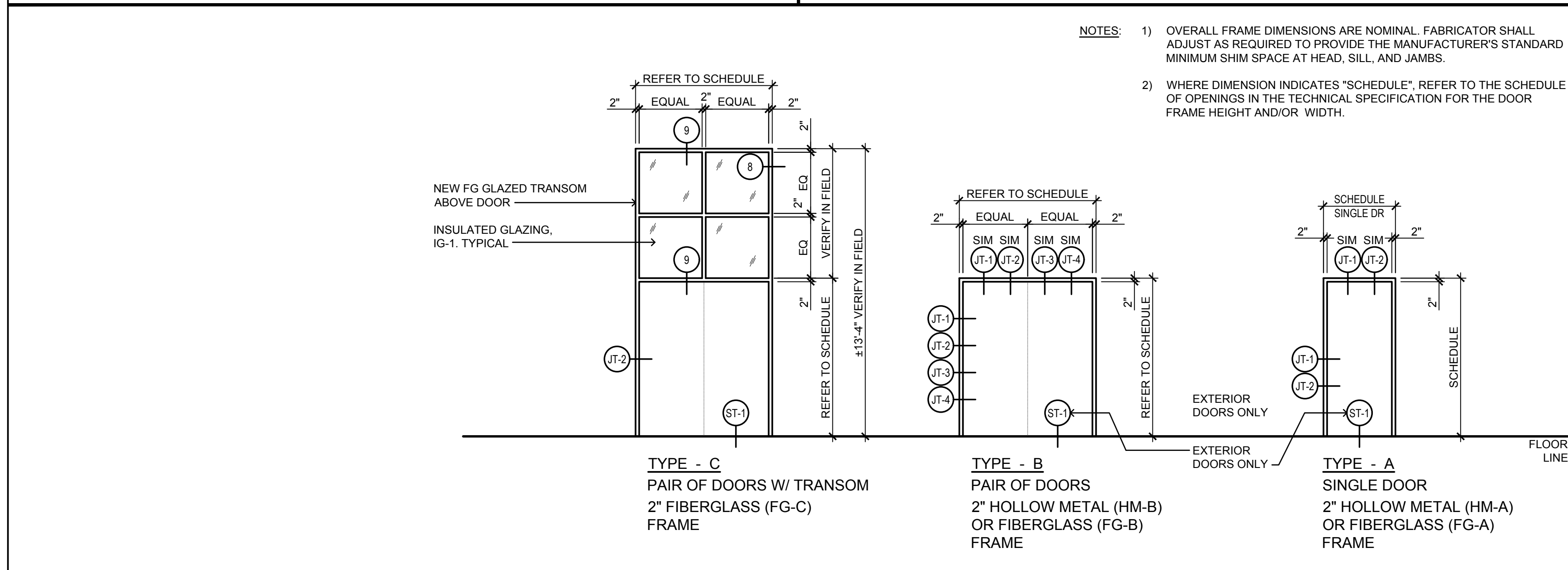
SCALE N/A
DETAIL: DOOR TRANSOM 09



SCALE 3/4"=1'-0"
DOOR JAMB TYPE-3 06



SCALE 3/4"=1'-0"
DOOR SILL TYPE-1 03



SCALE 1/4"=1'-0"
FRAME TYPES 02



SCALE 1/4"=1'-0"
DOOR TYPES 01

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**PENNSYLVANIA CONVENTION CENTER
TRAINSHED EXTERIOR RENOVATIONS
DOOR REPLACEMENT**
1101 ARCH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

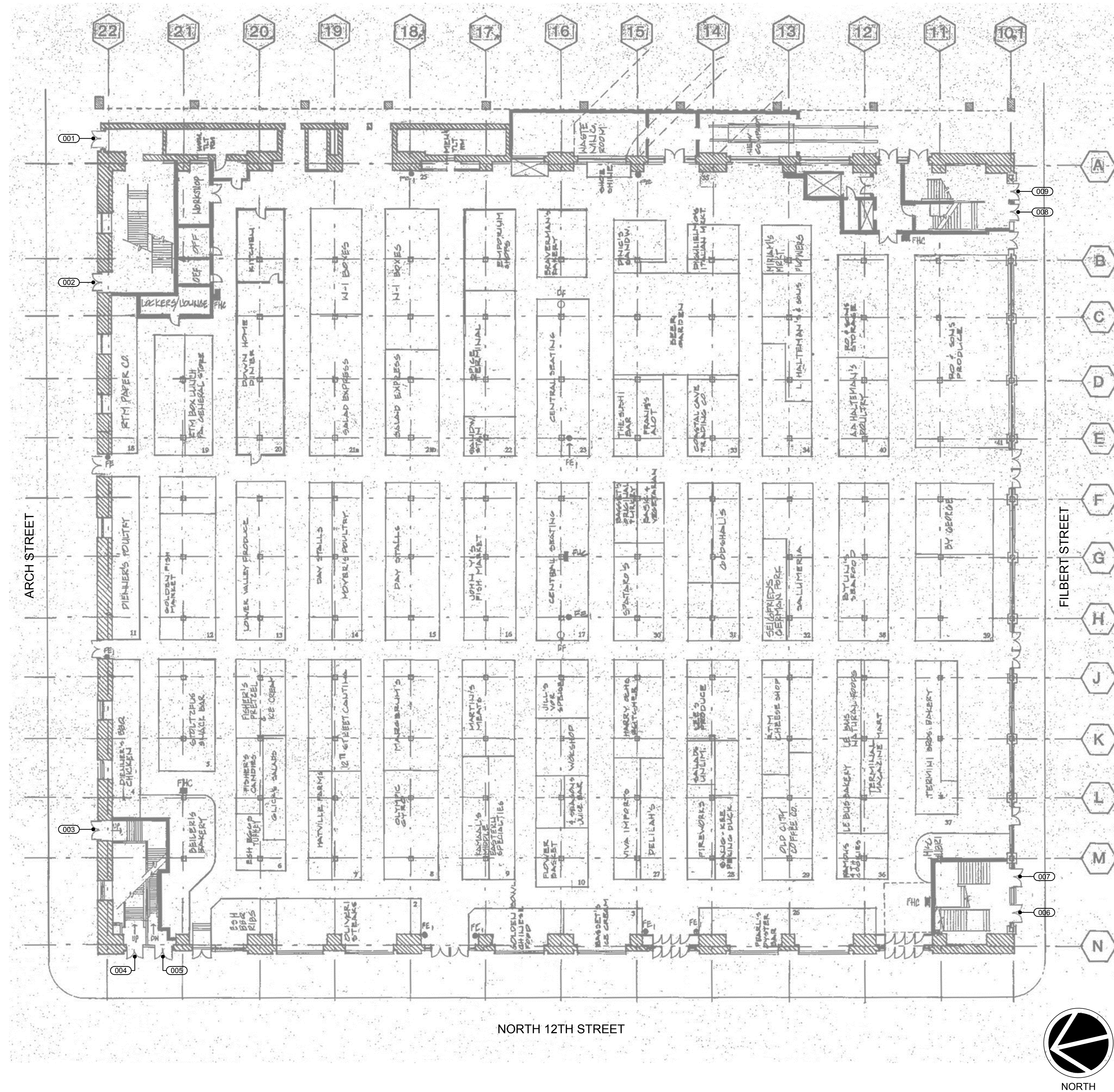
**FLOOR PLAN
AND EXISTING
DOOR PHOTOS**

SCALE AS NOTED
DRAWN _____
CHECKED _____
APPROVED _____
DATE DECEMBER 02, 2021

| REVISIONS | SYMBOL | DATE | DESCRIPTION |
|-----------|--------|------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |

DRAWING #

A-201



ADD ALT NO 3

SCALE
1/16"=1'-0"

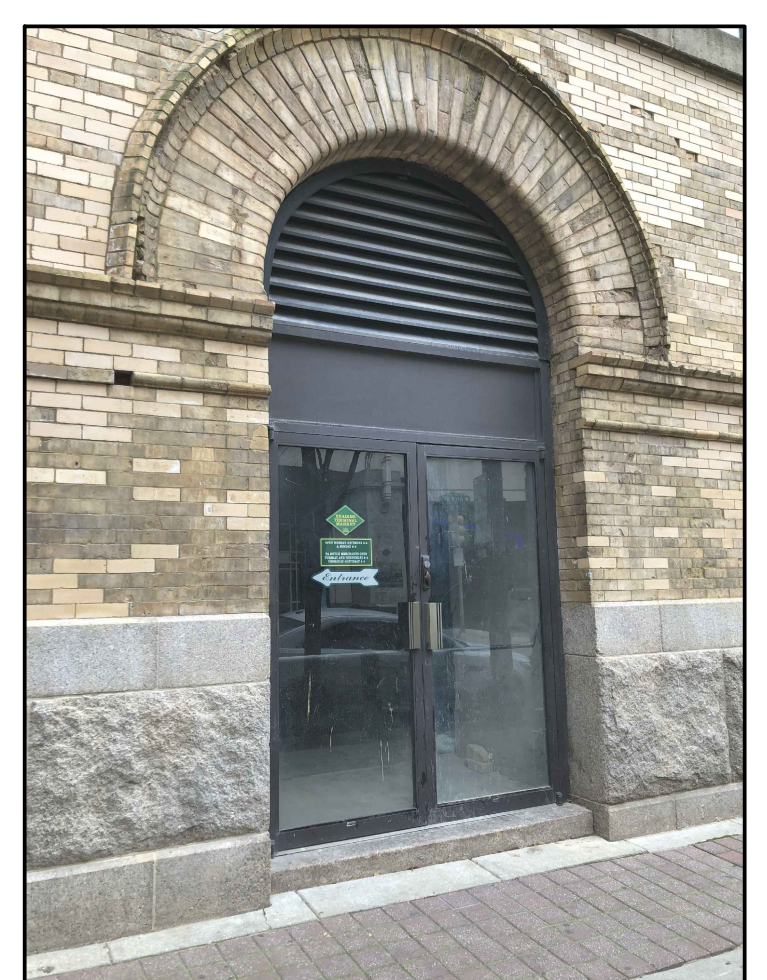
FIRST FLOOR PLAN OF TRAINSHED BUILDING **02**



001
DOOR TYPE - C
HOLLOW METAL



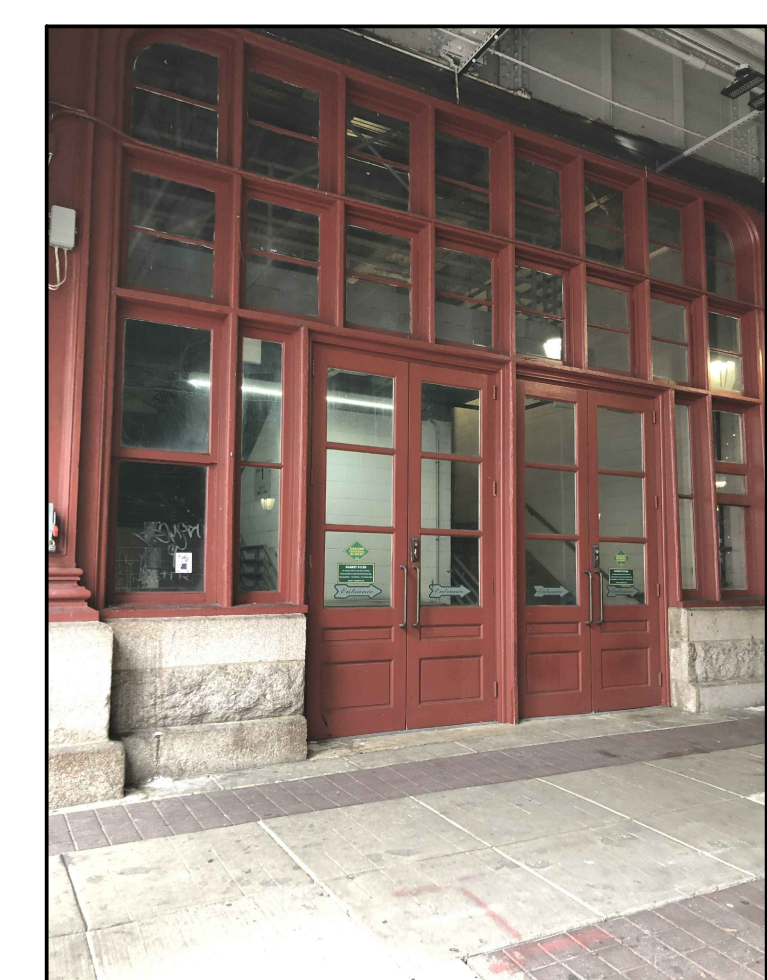
002
DOOR TYPE - B
HOLLOW METAL



003
DOOR TYPE - B
HOLLOW METAL



004
DOOR TYPE - D
HOLLOW METAL



006
DOOR TYPE - A
HOLLOW METAL



008
DOOR TYPE - A
HOLLOW METAL

SCALE
NO SCALE

EXISTING DOORS TO BE REPLACED - PHOTOS **01**

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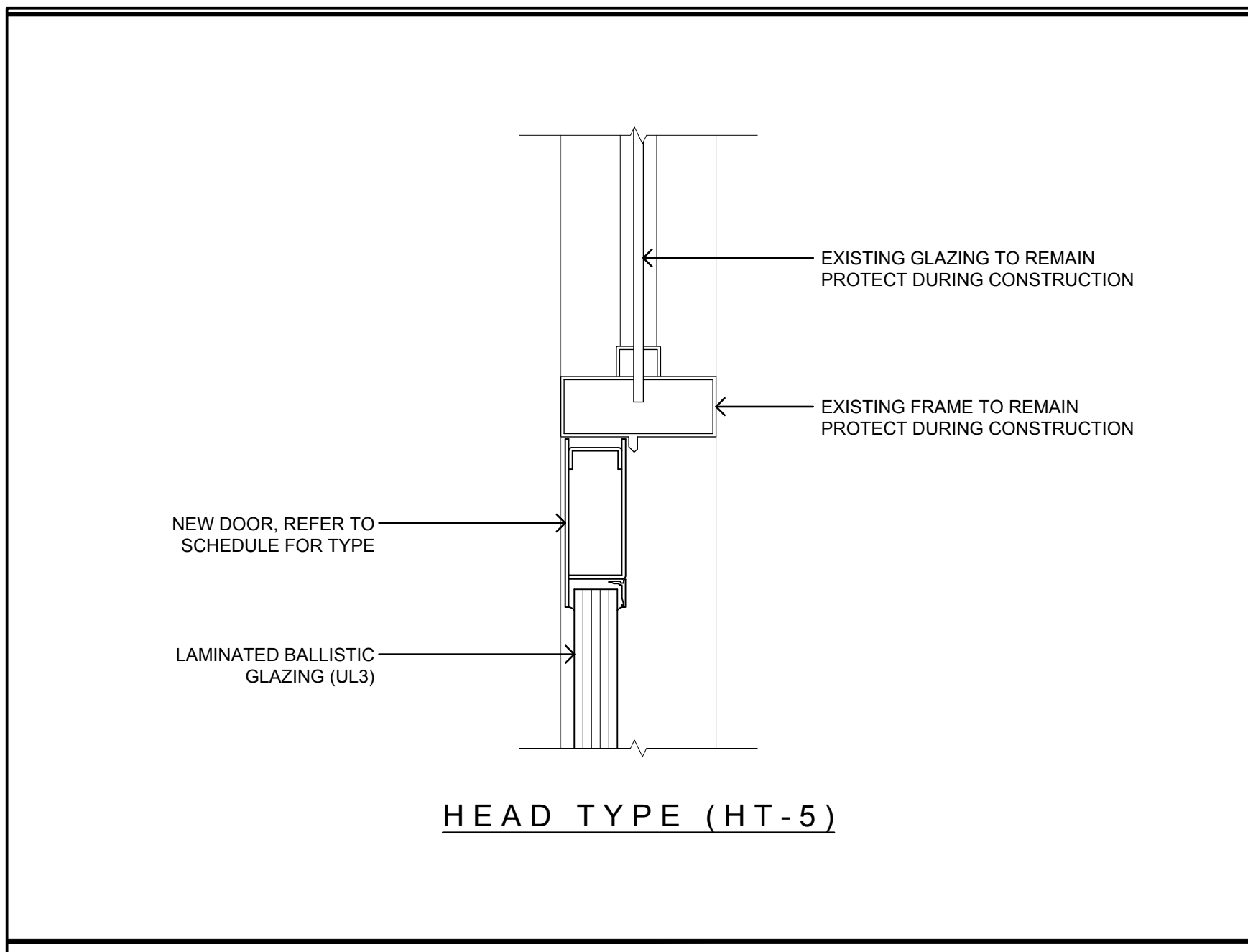
**DOOR SCHEDULE
 DOOR TYPES
 AND DETAILS**

SCALE AS NOTED
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE DECEMBER 02, 2021

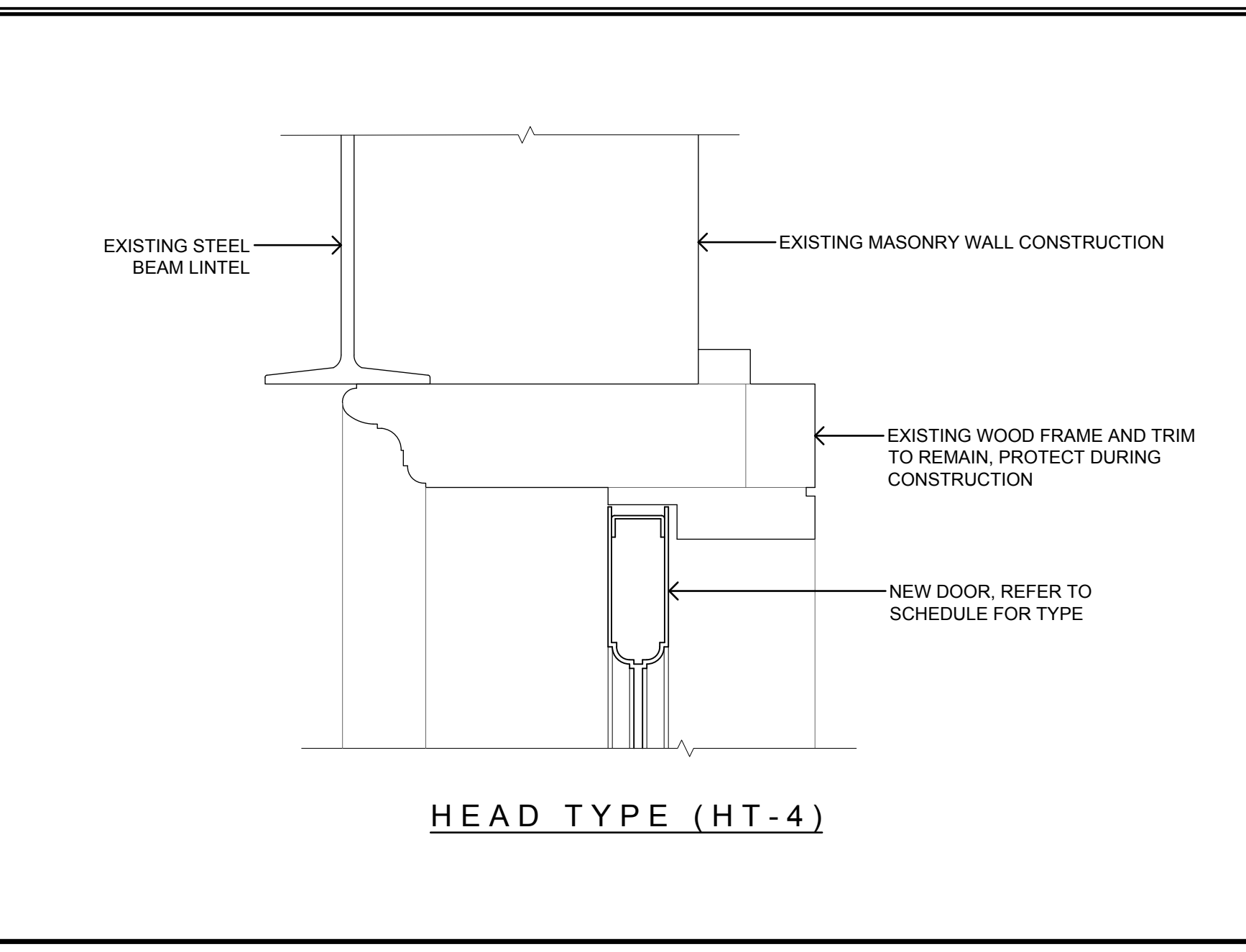
| REVISIONS | SYMBOL | DATE | DESCRIPTION |
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DRAWING #

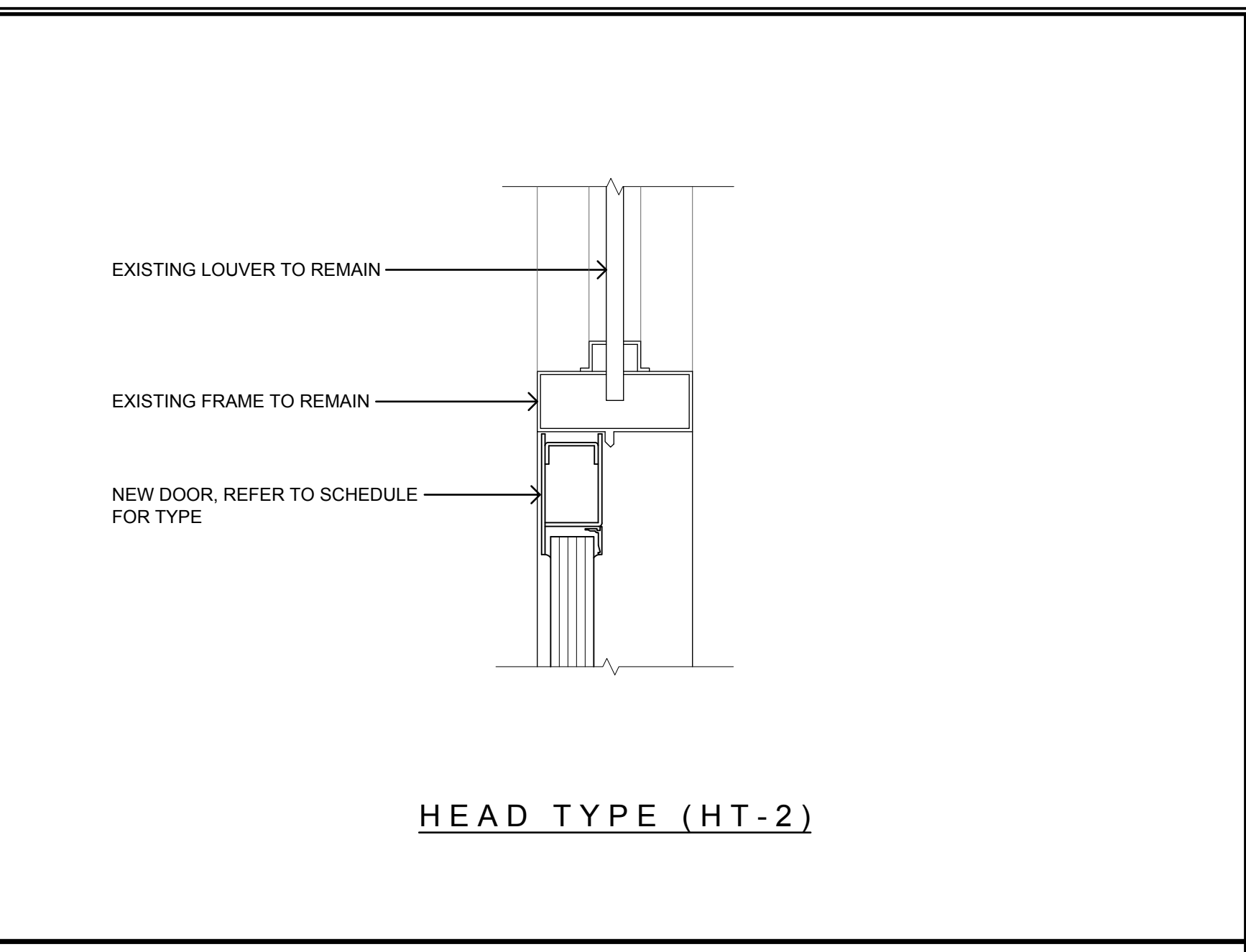
A-202



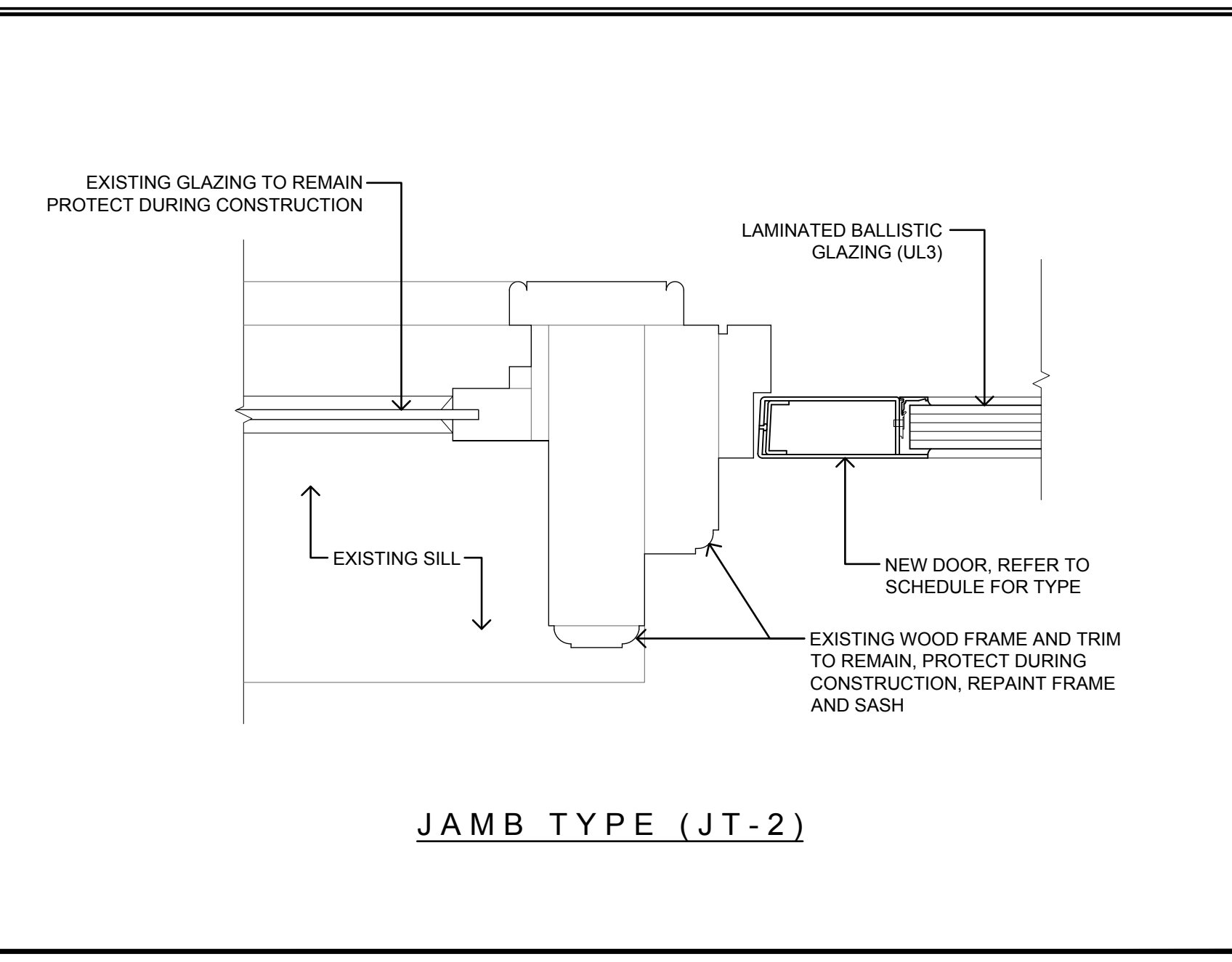
SCALE 3"=1'-0" **DOOR HEAD DETAIL 13**



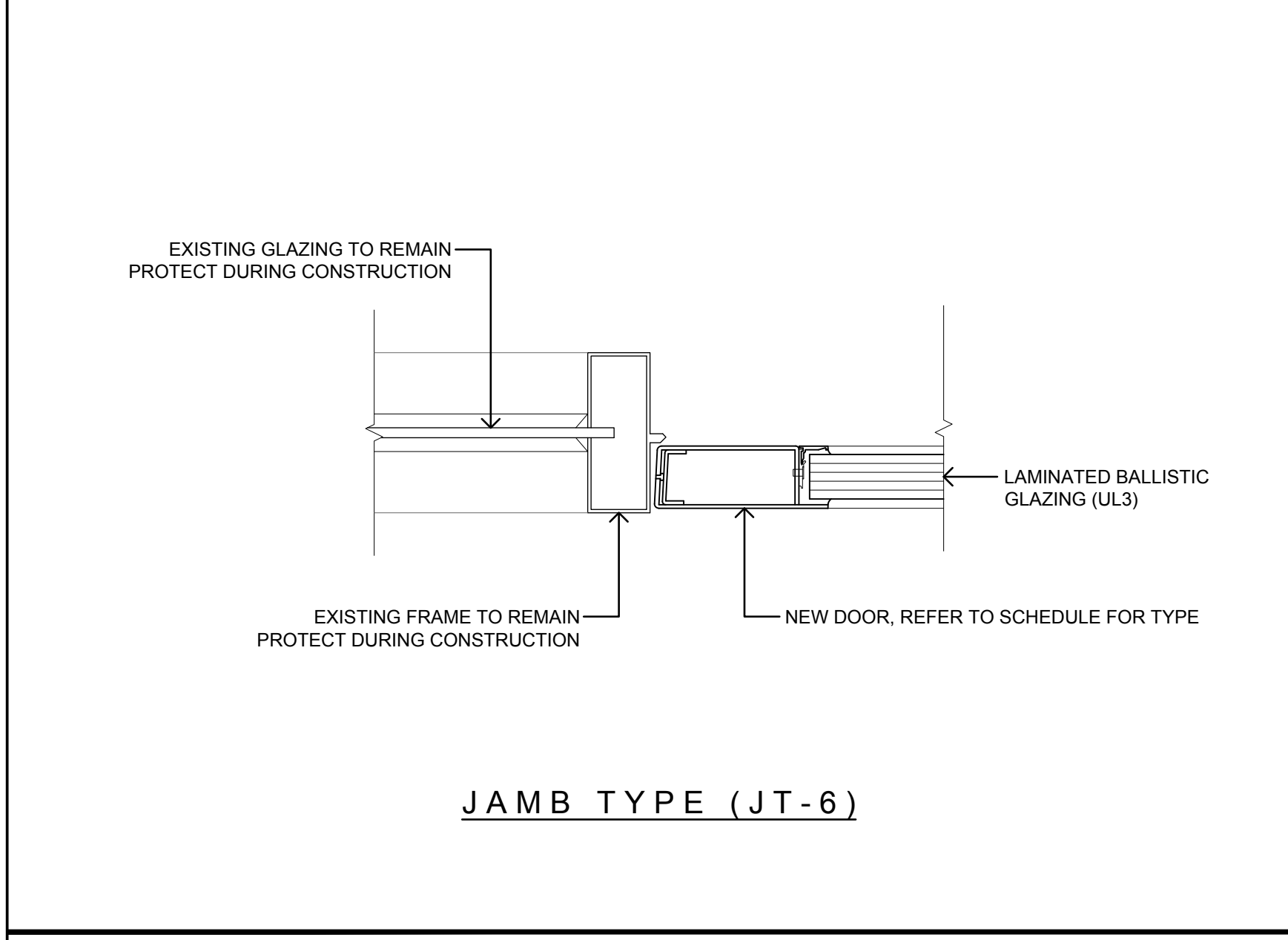
SCALE 3"=1'-0" **DOOR HEAD DETAIL 10**



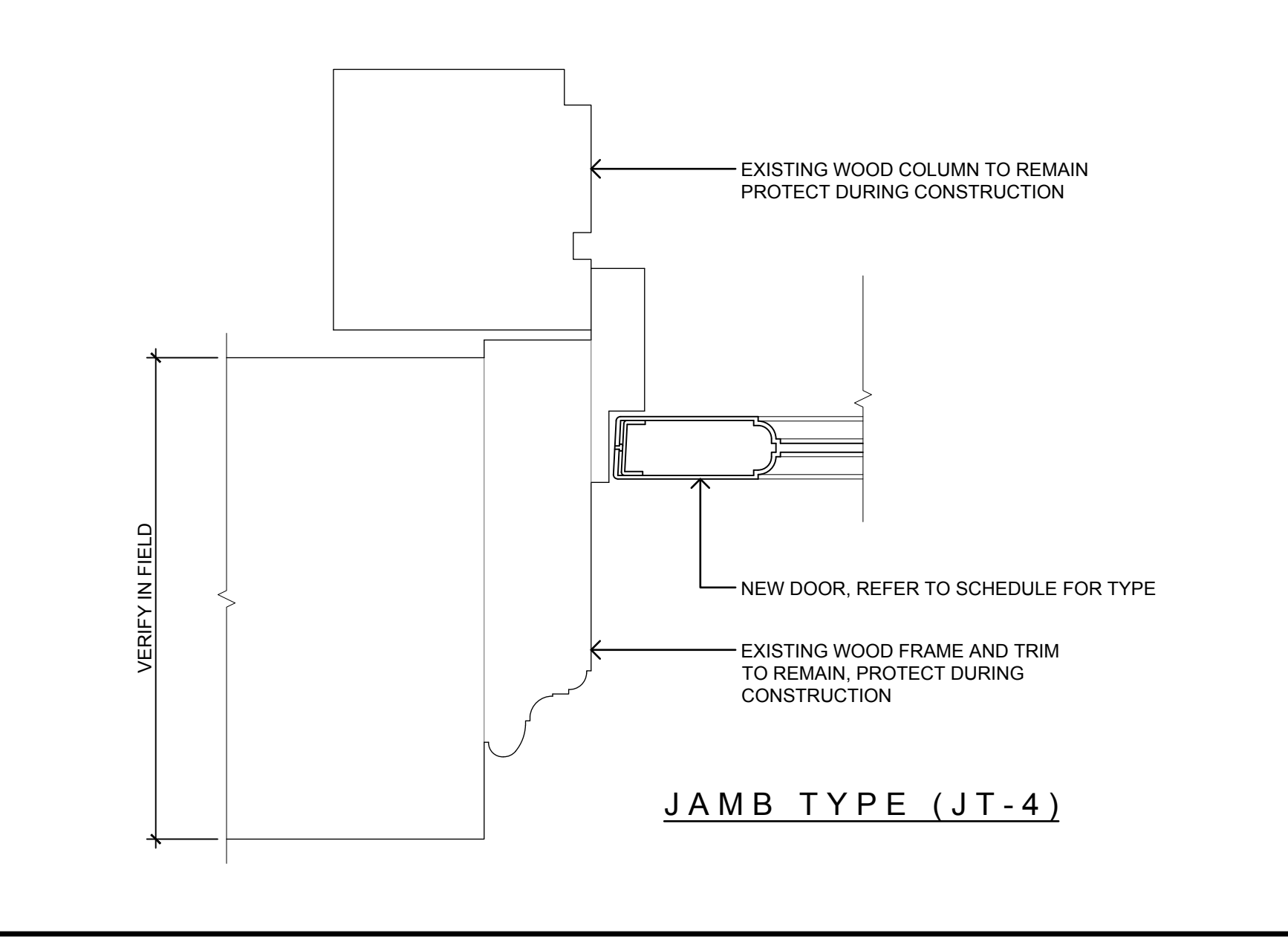
SCALE 3"=1'-0" **DOOR HEAD DETAIL 07**



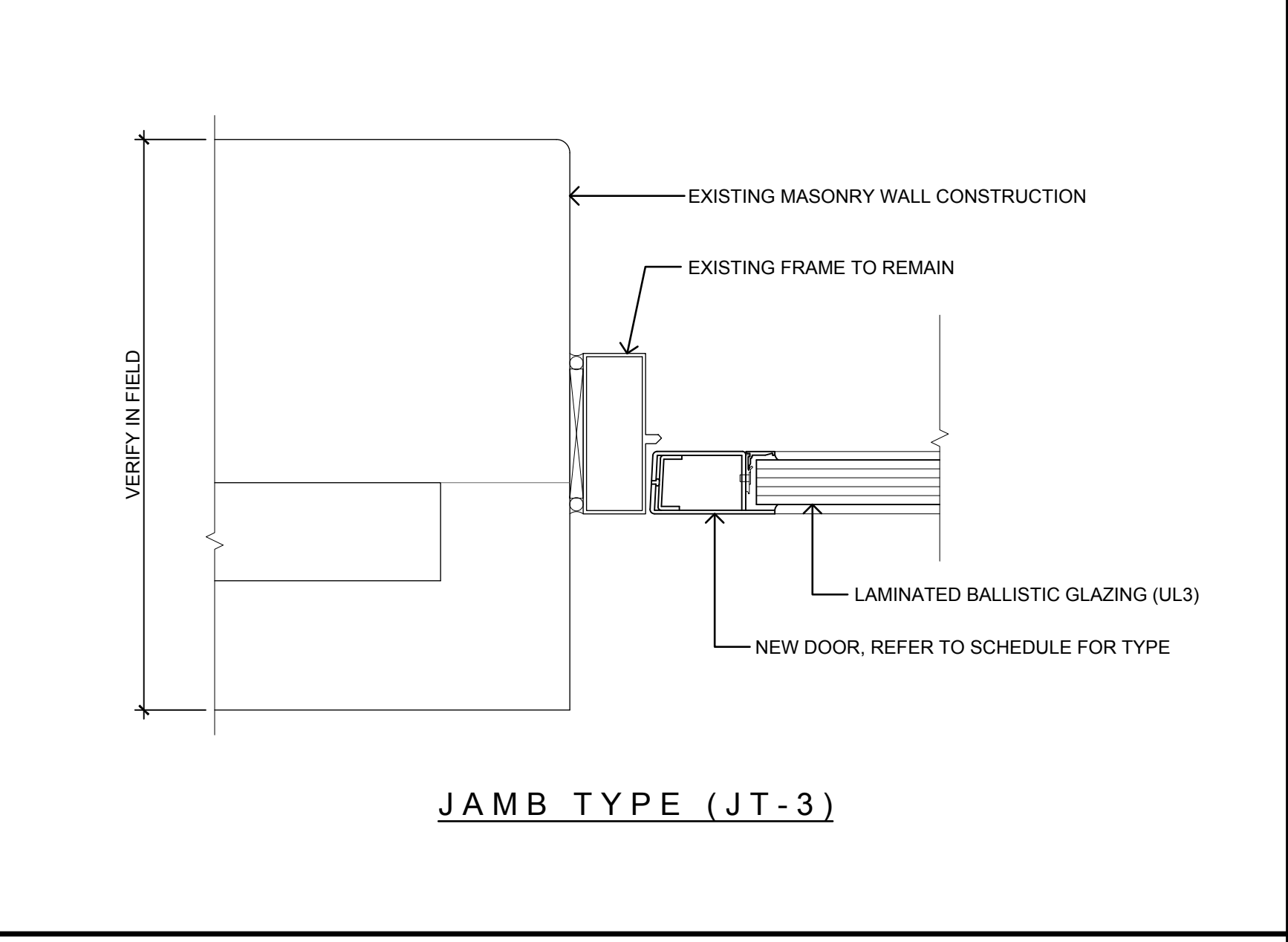
SCALE 3"=1'-0" **DOOR JAMB DETAIL 04**



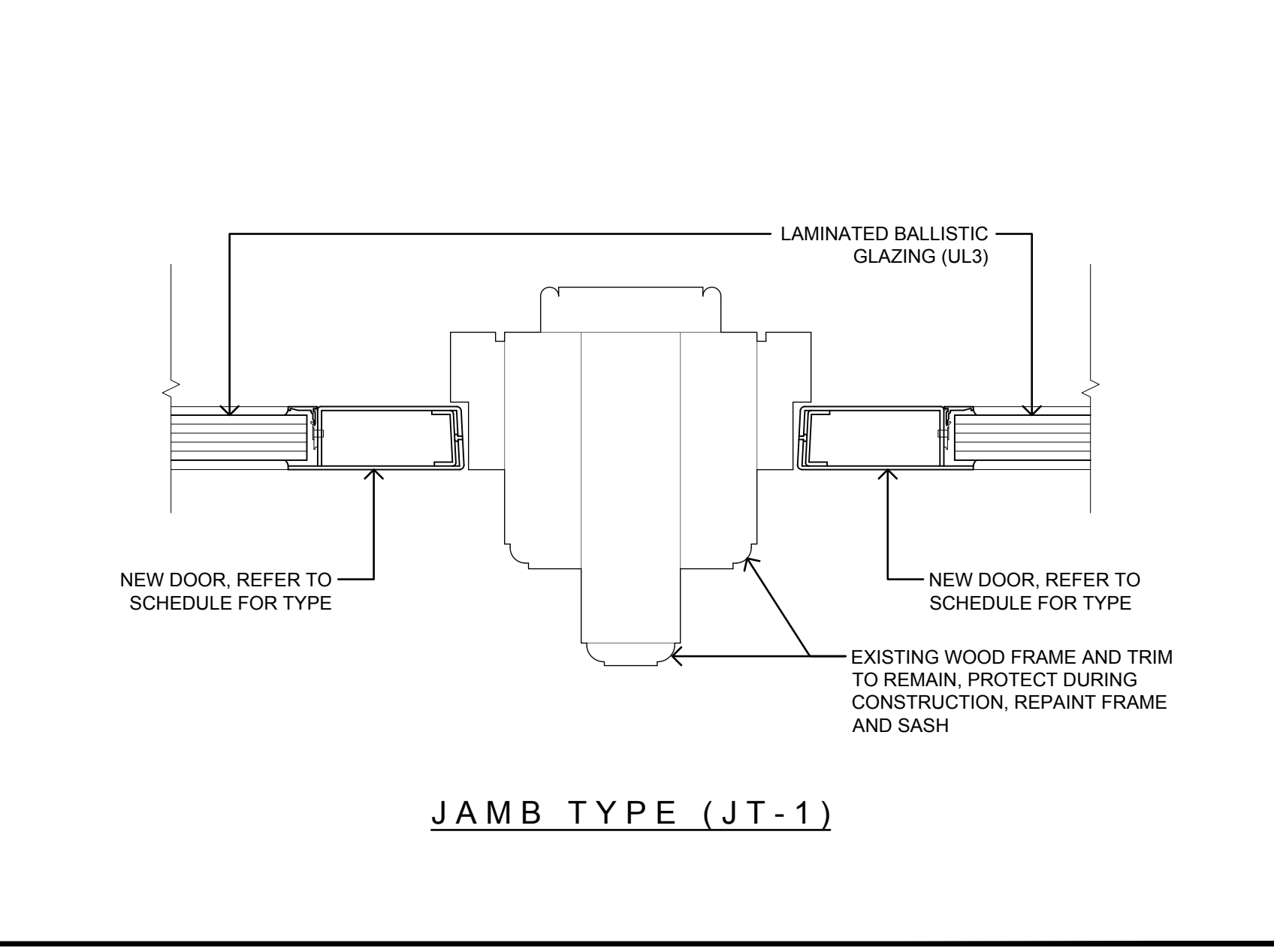
SCALE 3"=1'-0" **DOOR JAMB DETAIL 12**



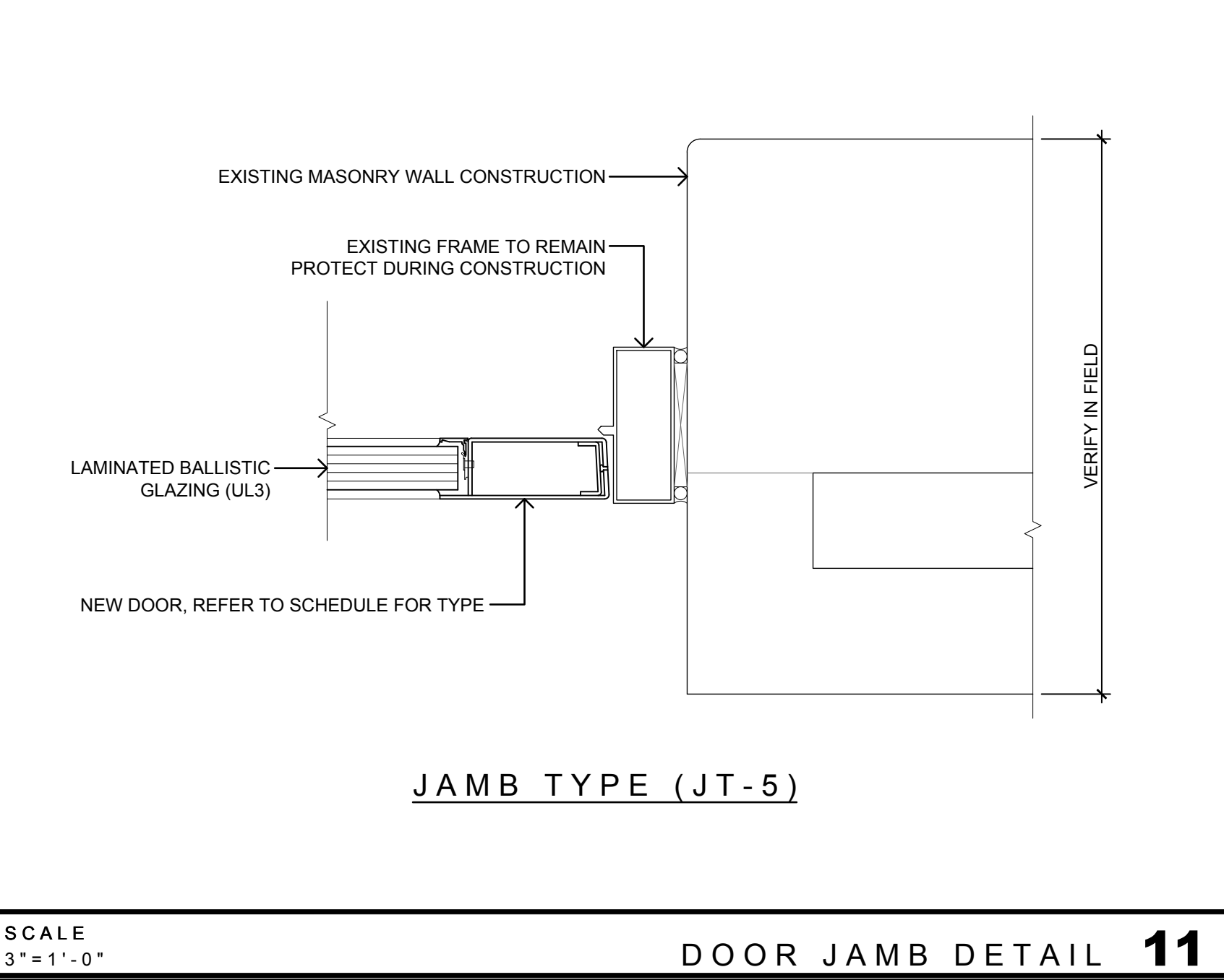
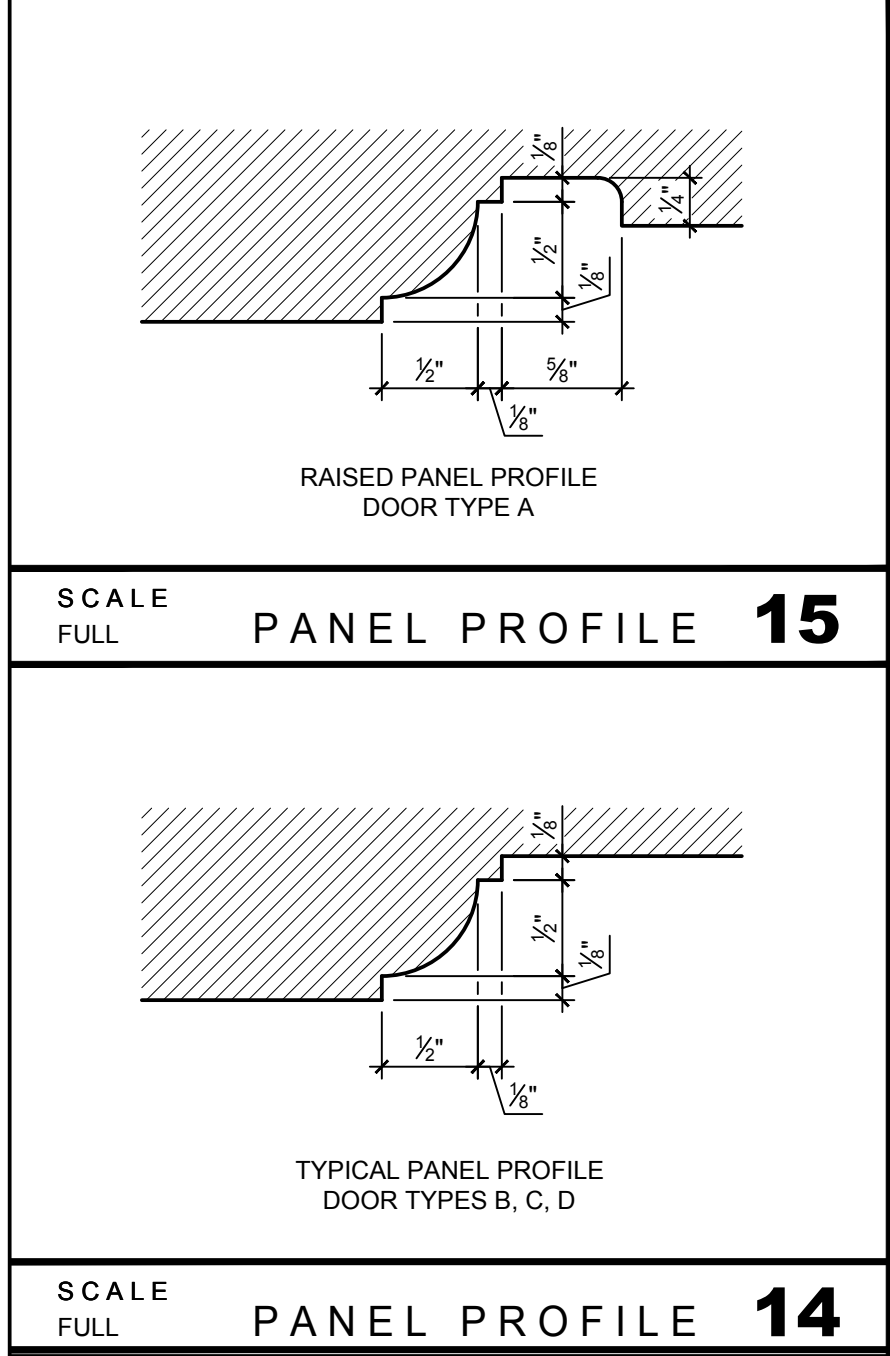
SCALE 3"=1'-0" **DOOR JAMB DETAIL 09**



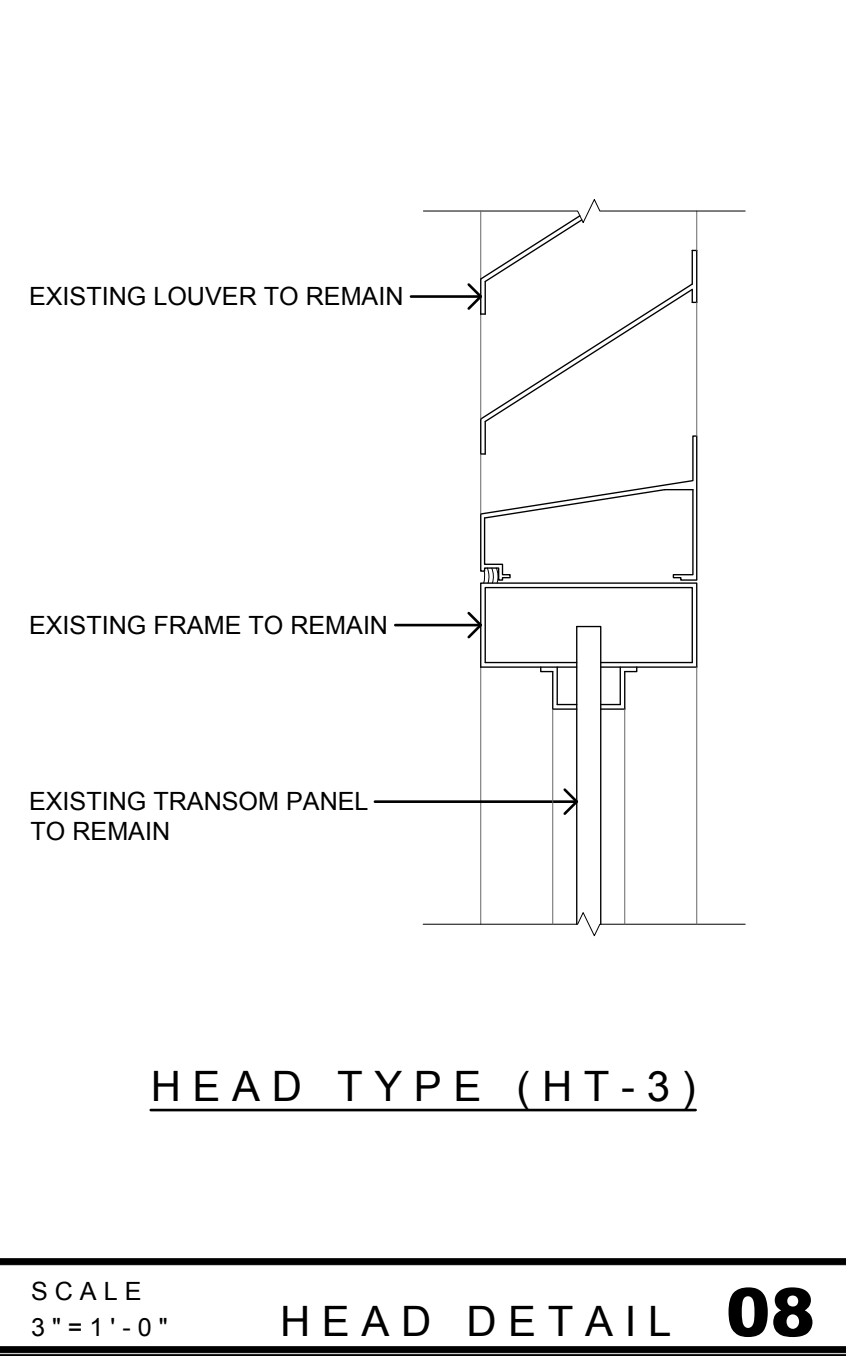
SCALE 3"=1'-0" **DOOR JAMB DETAIL 06**



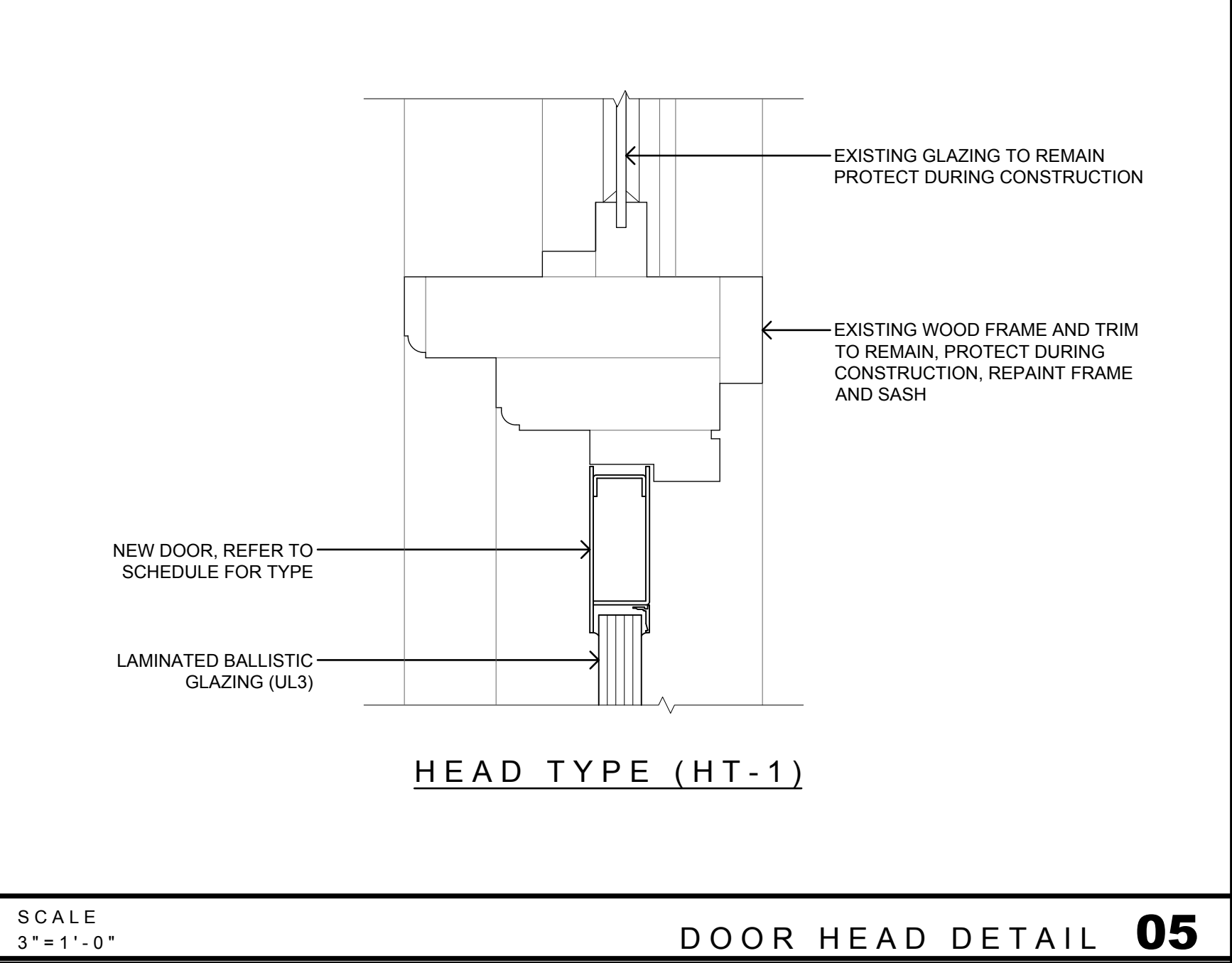
SCALE 3"=1'-0" **DOOR JAMB DETAIL 03**



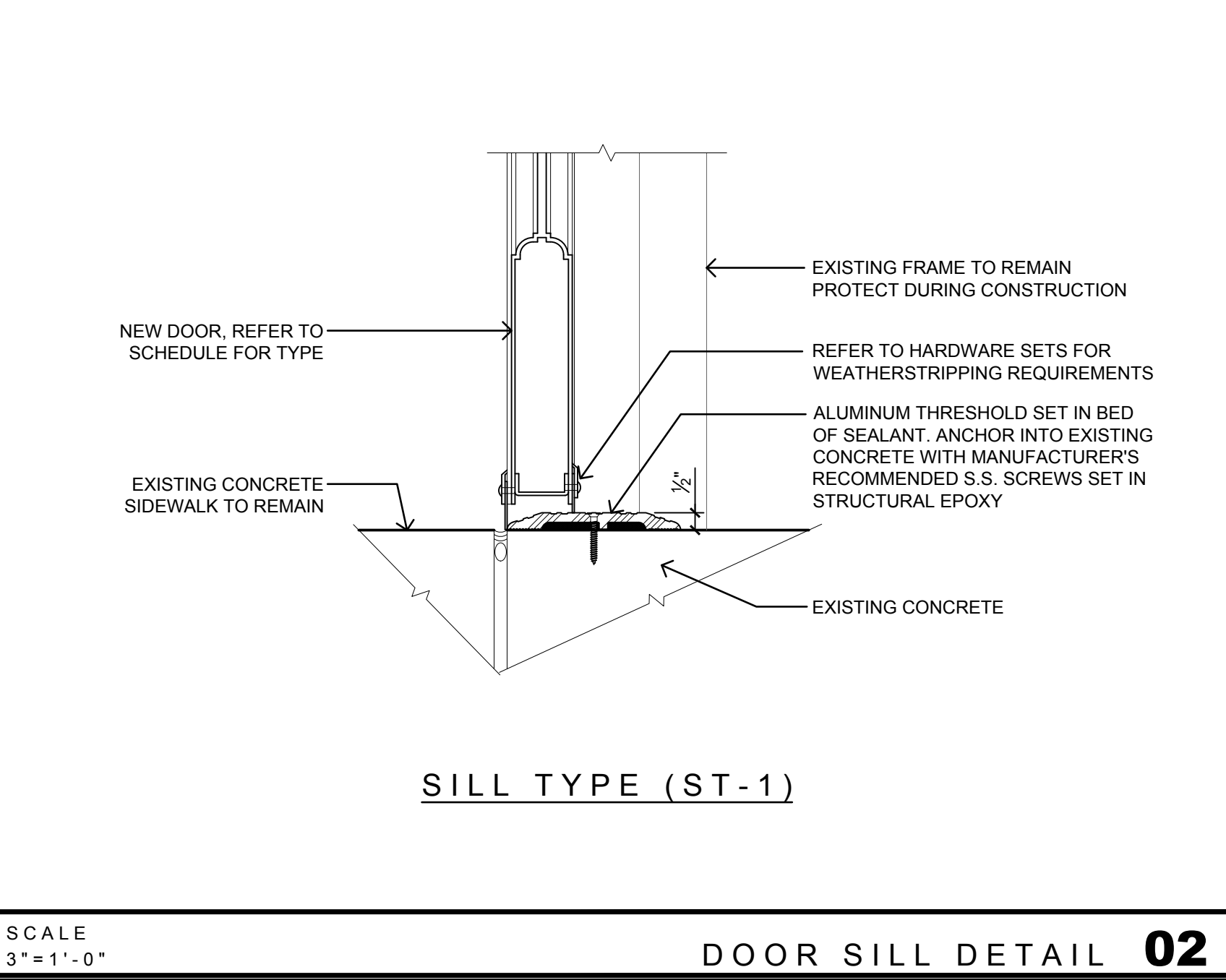
SCALE 3"=1'-0" **DOOR JAMB DETAIL 11**



SCALE 3"=1'-0" **HEAD DETAIL 08**

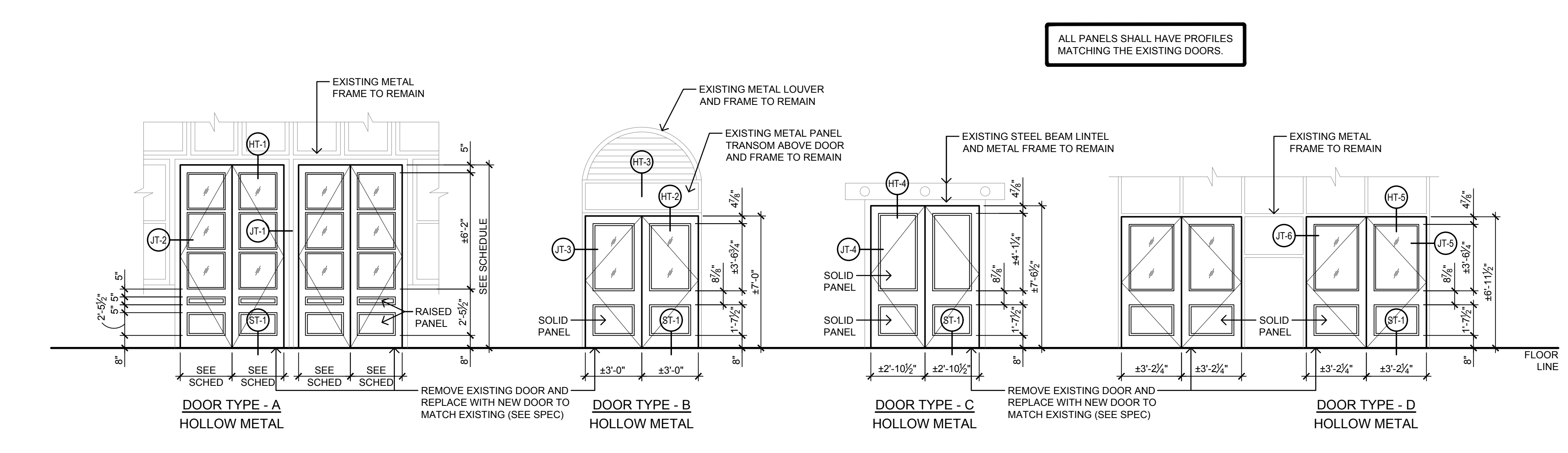


SCALE 3"=1'-0" **DOOR HEAD DETAIL 05**



SCALE 3"=1'-0" **DOOR SILL DETAIL 02**

| DOOR SCHEDULE | | | | | | | | | | | | |
|---------------|---------------------------|------|----------------|----------|--------|-------------|-------|--------------------|--------|-------------|---|---------|
| NO. | LOCATION | TYPE | SIZE | | | FINISH | GLASS | FRAME | | FIRE RATING | HWD SET | REMARKS |
| | | | WIDTH | HEIGHT | THICK | | | TYPE | FINISH | | | |
| 001 | EAST END OF ARCH STREET | C | 34 1/2" (PAIR) | 90 1/2" | 1 3/4" | PREFINISHED | N/A | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 002 | ARCH STREET | B | 36" (PAIR) | 84" | 1 3/4" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 003 | ARCH STREET | B | 36" (PAIR) | 84" | 1 3/4" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 004 | 12TH STREET (37NST01A) | D | 38 1/4" (PAIR) | 83 1/2" | 1 3/4" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | V.I.F. ALL DIMENSIONS REMOVE PAINT FROM FRAME | |
| 005 | 12TH STREET (37CST01B) | D | 38 1/4" (PAIR) | 83 1/2" | 1 3/4" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | V.I.F. ALL DIMENSIONS REMOVE PAINT FROM FRAME | |
| 006 | FILBERT STREET (37CST01B) | A | 32 3/4" (PAIR) | 114 1/2" | 2" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 007 | FILBERT STREET (37CST01A) | A | 32 3/4" (PAIR) | 114 1/2" | 2" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 008 | FILBERT STREET (37CST02B) | A | 28" (PAIR) | 112 1/2" | 2" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |
| 009 | FILBERT STREET (37CST02A) | A | 28" (PAIR) | 112 1/2" | 2" | PREFINISHED | UL3 | EXISTING TO REMAIN | N/A | - | VERIFY ALL DIMENSIONS IN THE FIELD | |



SCALE 1/4"=1'-0" **DOOR TYPES AND SCHEDULE 01**

ELECTRICAL SYMBOL LIST

POWER

EWCC-1 ELECTRIC WATER COOLER - PROVIDE 20A, 125V SIMPLEX RECEPTACLE AND DEDICATED CIRCUIT. MOUNT RECEPTACLE WITHIN COOLER ENCLOSURE.

⊕ DUPLX RECEPTACLE - 125V, 20A GROUNDING TYPE, 3W

⊕ INDICATES DEVICE IS MOUNTED ABOVE COUNTER HEIGHT, BACKSPASH, OR AS NOTED ON DRAWINGS

⊕ QUADRAPLEX RECEPTACLE - 125V, 20A, GROUNDING TYPE, 3W

⊕ DUPLX GROUND FAULT RECEPTACLE - 125V, 20A, GROUNDING TYPE, 3W

⊕ DUPLX GROUND FAULT RECEPTACLE - 125V, 20A, GROUNDING TYPE, 3W MOUNTED ABOVE COUNTER HEIGHT, BACKSPASH, OR AS INDICATED ON DRAWINGS

⊕ SINGLE RECEPTACLE - SPECIAL PURPOSE (AS NOTED ON DRAWINGS)

⊕ FLOOR MOUNTED DUPLX RECEPTACLE - 125V, 20A GROUNDING TYPE, 3W

⊕ FLOOR MOUNTED QUADRAPLEX RECEPTACLE - 125V, 20A, GROUNDING TYPE, 3W

⊕ CEILING MOUNTED DUPLX RECEPTACLE - 125V, 20A GROUNDING TYPE, 3W

⊕ JUNCTION BOX (FLOOR, CEILING, WALL MOUNTED)

⊕ PULL BOX

⊕ MOTOR

⊕ TRANSFORMER

⊕ GROUND ROD

TELEPHONE/DATA

⊕ COMBINATION TELEPHONE/DATA OUTLET
DENOTES ABOVE COUNTER MOUNTING HEIGHT

⊕ DATA COMMUNICATION OUTLET

⊕ TELEPHONE OUTLET

⊕ FLOOR MOUNTED DATA OUTLET

⊕ FLOOR MOUNTED TELEPHONE OUTLET

⊕ FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET

⊕ AUDIO/VISUAL JUNCTION BOX (FLOOR, CEILING, WALL MOUNTED)

⊕ WIRELESS ACCESS POINT JUNCTION BOX (CEILING)

FIRE ALARM

⊕ FIRE ALARM MANUAL PULL STATION

⊕ FIRE ALARM AUDIBLE SIGNAL AND STROBE LIGHT COMBINATION

⊕ FIRE ALARM STROBE LIGHT

⊕ AREA SMOKE DETECTOR, PHOTOELECTRIC (900 SQ. FT. COVERAGE)

⊕ THERMAL, FIXED TEMPERATURE TYPE, 200' (625 SQ. FT. COVERAGE)

⊕ DUCT MOUNTED SMOKE DETECTOR, PHOTOELECTRIC

⊕ FIRE ALARM CONTROL PANEL

⊕ FIRE ALARM ANNUNCIATOR PANEL

⊕ SPRINKLER FLOW SWITCH

⊕ SPRINKLER TAMPER SWITCH

⊕ FIRE ALARM RELAY MODULE

⊕ FIRE ALARM MONITORING MODULE

CIRCUIT PROTECTION

⊕ MANUAL MOTOR STARTER

⊕ DISCONNECT SWITCH, UNFUDED TYPE

⊕ DISCONNECT SWITCH, FUDED TYPE

PANELBOARDS

⊕ SURFACE MOUNTED ELECTRICAL PANELBOARD

⊕ RECESSED MOUNTED ELECTRICAL PANELBOARD

⊕ SYSTEMS PANEL OR TERMINAL CABINET (AS INDICATED ON DRAWING)

⊕ DISTRIBUTION PANEL

SECURITY

⊕ CARD READER

⊕ MAGNETIC LOCK

⊕ ELECTRIC STRIKE

⊕ DOOR CONTACT

⊕ CCTV CAMERA CEILING JUNCTION BOX

LIGHTING (NOTE: LOWER CASE LETTER INDICATES SWITCHING ARRANGEMENT)

⊕ FLUORESCENT LIGHTING FIXTURE (LETTER INDICATES TYPE)

⊕ FLUORESCENT STRIP FIXTURE (LETTER INDICATES TYPE)

⊕ FLUORESCENT DOWNLIGHT (LETTER INDICATES TYPE)

⊕ WALL BRACKET FIXTURE (LETTER INDICATES TYPE)

⊕ EMERGENCY BATTERY PACK (LETTER INDICATES TYPE)

⊕ EXIT SIGN (LETTER INDICATES TYPE)

⊕ LIGHTING FIXTURE ON EMERGENCY (LETTER INDICATES TYPE)

SWITCHING

⊕ SINGLE POLE SWITCH

⊕ THREE WAY AND FOUR WAY SWITCHES

⊕ SWITCH WITH INTEGRAL VACANCY SENSOR & LOW VOLTAGE DIMMING (0-10V)

⊕ LOW VOLTAGE DIMMING (0-10V) SWITCH

⊕ OCCUPANCY SENSOR

⊕ DAYLIGHT SENSOR

⊕ AUTOMATIC DOOR LIGHT SWITCH

⊕ LOCAL EXHAUST FAN SWITCH

BRANCH CIRCUIT WIRING (WHERE SHOWN)

⊕ BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN FLOOR OR BELOW GRADE. PROVIDE GROUND WIRES IN PVC CONDUITS WHERE PVC CONDUITS ARE PERMITTED.

⊕ BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN CEILING OR WALL

⊕ BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, EXPOSED

⊕ BRANCH CIRCUIT WIRING TO PANEL

⊕ DENOTES CIRCUIT NUMBER AT PANELBOARD

⊕ DENOTES PANELBOARD IDENTITY (NAME)

⊕ BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING UP TOWARD OBSERVER

⊕ BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING AWAY FROM OBSERVER

POWER DISTRIBUTION (SINGLE LINE DIAGRAM)

⊕ CURRENT TRANSFORMER (CT)

⊕ POTENTIAL TRANSFORMER (PT)

⊕ METER (ELECTRIC)

⊕ CIRCUIT BREAKER

⊕ DISCONNECT SWITCH

⊕ FUSE

⊕ TRANSFORMER

⊕ TRANSFER SWITCH

⊕ TRANSIENT VOLTAGE SURGE SUPPRESSOR

⊕ SHUNT TRIP

ABBREVIATIONS

| | | | |
|-------|----------------------------------|----------|--|
| 1P | ONE POLE | LTG | LIGHTING |
| 2P | TWO POLE | MCB | MAIN CIRCUIT BREAKER |
| 3P | THREE POLE | MDP | MAIN DISTRIBUTION PANEL |
| 4P | FOUR POLE | (ME) | MODIFY EXISTING |
| A | AMPERE | MISC | MISCELLANEOUS |
| AB | ABOVE CEILING | MLO | MAIN LUGS ONLY |
| AC | ABOVE COUNTER | MOD | MOTOR OPERATED DISCONNECT SWITCH |
| AFCH | ARC FAULT CURRENT INTERRUPTER | MTD | MOUNTED |
| AFT | ABOVE FINISHED FLOOR | MTG | MOUNTING |
| AIC | AMPS INTERRUPTING CURRENT | MTS | MANUAL TRANSFER SWITCH |
| AFG | ABOVE FINISHED GRADE | (N) | NEW |
| ARCH | ARCHITECT | N/A | NOT APPLICABLE |
| ATS | AUTOMATIC TRANSFER SWITCH | NEC | NATIONAL ELECTRICAL CODE |
| BLDG | BUILDING | NIC | NOT IN CONTRACT |
| C | CONDUIT | C | C |
| CATV | CABLE TELEVISION | # | NUMBER |
| CB | CIRCUIT BREAKER | NTS | NOT TO SCALE |
| CD | CANDELA | P | POLE |
| CIR | CIRCUIT | PB | PULL BOX |
| CMT | EMPTY CONDUIT | PH | PHASE |
| C.T. | CURRENT TRANSFORMER | PNL | PANEL |
| DISC | DISCONNECT | PVC | POLYVINYL CHLORIDE CONDUIT |
| DWG | DRAWING | PWR | POWER |
| (E) | EXISTING TO REMAIN | (R) | REMOVE EXISTING |
| (EC) | ELECTRICAL CONTRACTOR | (RE) | RELOCATED EXISTING |
| (ER) | EXISTING TO BE RELOCATED | (RR) | REMOVE & REPLACE |
| EWCC | ELECTRIC WATER COOLER | REC | RECESSED |
| FA | FIRE ALARM | SCP | SECURITY CONTROL PANEL |
| FAP | FIRE ALARM ANNUNCIATOR PANEL | ST | SHUNT TRIP |
| FACP | FIRE ALARM CONTROL PANEL | SWBD | SWITCHBOARD |
| FLA | FULL LOAD AMPS | SYS | CONNECTION TO SYSTEMS FURNITURE |
| GC | GENERAL CONTRACTOR | TC | TIME CLOCK |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | TEL/DATA | TELEPHONE/DATA |
| GND | GROUNDING | TEL | TELEPHONE |
| HP | HORSEPOWER | TB | TELEPHONE TERMINAL BOARD |
| HV | HIGH VOLTAGE | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION |
| Hz | HERTZ (CYCLE) PER SECOND | TYP | TYPICAL |
| IG | ISOLATED GROUND | UON | UNLESS OTHERWISE NOTED |
| JB | JUNCTION BOX | V | VOLT |
| KCMIL | THOUSAND CIRCULAR MILS | W | WATT |
| KVA | KILOVOLT AMPERE | WP | WEATHERPROOF |
| KW | KILOWATT | XFMR | TRANSFORMER |
| LP | LIGHTING PANEL | + | INDICATES MOUNTED ABOVE CENTER OR AS NOTED ON DWG. |
| | | #1/ES.1 | DETAIL NUMBER/DRAWING NUMBER |

DRAWING SCHEDULE

| SHEET NUMBER | SHEET NAME | DATE | | | CD |
|--------------|---|------------|------------|------------|----|
| | | ISSUE | FOR REVIEW | 95% CD | |
| | | 04/08/2021 | 06/25/2021 | 10/01/2021 | |
| E000 | ELECTRICAL COVER SHEET | • | • | • | |
| E400 | ELECTRICAL STREET LEVEL POWER & SYSTEMS PLANS | • | • | • | |
| E401 | ELECTRICAL STREET LEVEL POWER & SYSTEMS PLANS | • | • | • | |
| E402 | ELECTRICAL HALL LEVEL EXHIBIT HALLS POWER & SYSTEMS PLANS | • | • | • | |
| E700 | ELECTRICAL DETAILS & SCHEDULES | • | • | • | |

A. SCOPE OF WORK

- THE WORK UNDER THIS SPECIFICATION INCLUDES THE SATISFACTORY COMPLETION OF ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - POWER: MODIFY EXISTING BRANCH CIRCUIT PANELBOARDS AND PROVIDE NEW BRANCH CIRCUIT WIRING TO AUTOMATIC DOOR OPERATORS SERVING EXHIBIT HALL DOORS. PROVIDE RACEWAYS TO SUPPORT DOOR OPERATOR CONTROL AND INTERLOCK WIRING INSTALLED BY THE SECURITY VENDOR.
 - FIRE ALARM: PROVIDE NEW FIRE ALARM SMOKE DETECTORS AND RELAY MODULES TO SHUNT POWER FROM THE AUTOMATIC FIRE DOORS SERVING THE EXHIBIT HALLS IN THE EVENT OF A FIRE CONDITION. PROVIDE FIRE ALARM PROGRAMMING AND MODIFICATION OF THE EXISTING SLC TO ACCOMMODATE THE NEW FIRE ALARM DEVICES
 - MODIFY, CONNECT AND RECONNECT, EXISTING DOOR CONTACT SECURITY DEVICES TO ACCOMMODATE REPLACEMENT OF DOORS AND DOOR FRAMES.
- INTENT:
 - THE ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS, PAY FEES, AND ARRANGE INSPECTIONS FOR CODE COMPLIANT AND FULLY FUNCTIONING SYSTEMS. NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THESE PLANS.
 - IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL WORK, LIGHT FIXTURES, APPURTENANCES, CONTROLS, AND WIRING BE FURNISHED AND INSTALLED COMPLETED AND READY FOR OPERATION.
 - UNLESS FUNCTIONALLY NECESSARY, ALL WORK SHALL BE CONCEALED. ALL EXPOSED ITEMS WILL BE SUBJECT TO THE ARCHITECT'S APPROVAL, BOTH FOR POSITION AND FINISH. WHEN AN ITEM, DEVICE, OR FIXTURE IS SHOWN ON THE ARCHITECTURAL DRAWINGS THESE POSITIONS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS. IF THE VARIATION IN POSITION IS GREATER THAN 18", THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
 - DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO ENSURE A COMPLETE INSTALLATION.
- LAWS AND REGULATIONS:
 - PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE HEREWITH.
 - ANY CHANGES NECESSARY IN ORDER THAT THE WORK COMPLY WITH SUCH LAWS, ORDINANCES, RULES AND REGULATIONS SHALL BE MADE BY THE ELECTRICAL CONTRACTOR, WITH THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.
 - UNLESS OTHERWISE NOTED OR SPECIFIED, ALL MATERIALS AND EQUIPMENT PROVIDED SHALL BE NEW AND SHALL CONFORM TO THE GRADE, QUALITY AND STANDARDS SPECIFIED HEREIN.
 - MATERIALS AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED BY THE MANUFACTURER FOR THE SERVICE INTENDED. THIS MATERIAL AND EQUIPMENT SHALL HAVE CAPACITIES AND RATINGS SUFFICIENT TO MEET THE REQUIREMENTS OF THE PROJECT. THE CAPACITIES AND RATINGS SHALL NOT BE IN EXCESS OF THOSE PUBLISHED BY THE MANUFACTURER, BUT MUST BE IN ACCORDANCE WITH ENGINEERING DATA OR OTHER COMPREHENSIVE DATA MADE AVAILABLE TO THE PUBLIC BY THE MANUFACTURER AND IN EFFECT AT THE TIME OF THE OPENING OF THE BIDS.
 - ELECTRICAL DEVICES, MATERIALS, AND EQUIPMENT OF A TYPE APPROVED AND LABELED BY UNDERWRITERS LABORATORY SHALL BE PROVIDED WHEREVER AVAILABLE ON THE MARKET, COMPLETE WITH LABEL.
- CUTTING, PATCHING AND PAINTING:
 - UNLESS OTHERWISE INDICATED, ALL CUTTING AND PATCHING FOR WORK REQUIRED SHALL BE BY THE ELECTRICAL CONTRACTOR REQUIRING THE OPENING.
 - PATCH EXISTING HOLES LEFT AS A RESULT OF REMOVAL IN ALL SURFACES, VISIBLE OR NOT.
- INSTALLATION:
 - ALL WIRING SHALL BE COPPER CONDUCTORS. ALUMINUM AND ALUMINUM ALLOY ARE NOT ACCEPTABLE UNLESS APPROVED BY THE OWNER OR ENGINEER, WITH RE-ENGINEERED WIRE SIZES BY THE INSTALLING CONTRACTOR.
 - ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

| | |
|-------------|------------------|
| PHASE-A,B,C | BLACK, RED, BLUE |
| NEUTRAL | WHITE |
| GROUND | GREEN |
 - ALL WIRING, UNLESS OTHERWISE NOTED ON DRAWINGS, SHALL BE MINIMUM #12AWG, 900V INSULATION TYPE THHN/THWN STRANDED CONDUCTORS, RATED FOR 75C TEMPERATURE.
 - THE ELECTRICAL CONTRACTOR SHALL LABEL ALL RECEPTACLES, JUNCTION BOXES, AND EQUIPMENT WITH SOURCE PANEL AND CIRCUIT NUMBER.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE OR CEILING TYPES AND PROVIDE APPROPRIATE MOUNTING HARDWARE, PLASTER FRAMES, PENDANTS, ETC.
- LOW-VOLTAGE CONDUCTORS:
 - MANUFACTURERS: GENERAL CABLE CORPORATION, SOUTHWIRE INCORPORATED, OKONITE CABLE COMPANY, ALLIED WIRE & CABLE
 - MATERIALS:
 - FEEDERS: COPPER STRANDED FOR NO. 8AWG AND LARGER.
 - BRANCH CIRCUITS: COPPER, STRANDED FOR NO. 12AWG AND LARGER.
 - APPLICATION:
 - ALL INSTALLATIONS: THHN/THWN SINGLE CONDUCTORS IN RACEWAY.
- RACEWAYS AND BOXES:
 - MANUFACTURERS: ALLIED TUBE & CONDUIT, THOMAS & BETTS CORPORATION, WHEATLAND TUBE COMPANY
 - GENERAL:
 - RIGID STEEL: COMPLY WITH ANSI C80.2 AND UL6.
 - EMT: COMPLY WITH ANSI C80.3 AND UL 797.
 - FMC: COMPLY WITH UL1; ZINC-COATED STEEL.
 - EMT:
 - 3/4-INCH TRADE SIZE MINIMUM
 - SET-SCREW CONNECTORS
 - SHEET METAL DEVICE BOXES:
 - COMPLY WITH NEMA OS 1 AND UL 514A
 - ZINC PLATED STEEL
- FIRE ALARM SYSTEM

EXISTING FIRE ALARM CONTROL PANEL: SIEMENS CERBERUS PRO

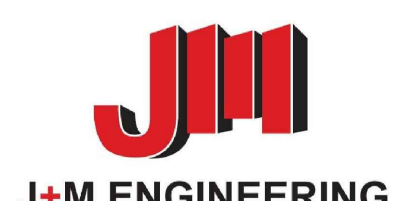
DELEGATED-DESIGN SUBMITTAL: PROVIDE FIRE ALARM CONTROL PANEL BATTERY SIZING CALCULATIONS TO CONFIRM CAPACITY IS AVAILABLE TO ACCOMMODATE ADDITIONAL SYSTEM SLC ADDRESSABLE DEVICES. THE CONTRACTOR SHALL PREPARE ALL FINAL DRAWINGS AND SHALL PROVIDE BATTERY CALCULATIONS, FOR PERMIT SUBMISSION.
- SECURITY AND ACCESS CONTROL

EXISTING SECURITY AND ACCESS CONTROL SYSTEM: SCHNEIDER ELECTRIC

PROVIDE MINIMUM 3/4" BOX AND CONDUIT RACEWAY SYSTEM TO SUPPORT INSTALLATION OF THE FOLLOWING:

 - AUTOMATIC DOOR OPERATORS AND CONTROL DEVICES AT DOORS SERVING EXHIBIT HALLS
 - DOORS TO BE ADDED TO THE ACCESS CONTROL SYSTEM CONSISTING OF CARD READERS, MAGNETIC LOCKS, AND DOOR CONTACTS.
- ELECTRICAL SYSTEM TESTING:
 - VERIFY THE PROPER OPERATION OF AUTOMATIC DOOR OPERATORS AFTER INSTALLATION IS COMPLETE.
 - TEST FIRE ALARM SYSTEM FOR PROPER INTEGRATION WITH AUTOMATIC DOOR OPERATORS. SIMULATE A FIRE CONDITION TO CONFIRM RELEASE OF AUTOMATIC DOORS. SCHEDULE INSPECTOR'S TEST FOR FIRE ALARM SYSTEM WITH LOCAL JURISDICTION, AND PAY ASSOCIATED FEES.
 - TEST FOR SHORT CIRCUIT AND GROUND PRIOR TO ENERGIZING.
 - AFTER VERIFICATION OF THE ABOVE SYSTEMS, SCHEDULE ROUGH-IN AND FINAL ELECTRICAL INSPECTIONS BY APPROVED INSPECTION AGENCY. ALL FEES ASSOCIATED WITH ELECTRICAL AND FIRE ALARM INSPECTIONS SHALL BE COVERED BY THE ELECTRICAL CONTRACTOR AS PART OF THEIR BID.
- WARRANTY:
 - THE ELECTRICAL CONTRACTOR SHALL FURNISH, BEFORE FINAL PAYMENT, A WRITTEN FULL WARRANTY FOR THIS INSTALLATION AND ITS PARTS.
 - SUCH WARRANTY SHALL BE IN EFFECT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF THE SYSTEMS AS A WHOLE, AS SIGNIFIED BY THE ARCHITECT'S APPROVAL OF THE FINAL REQUEST FOR PAYMENT.

CONSULTANTS



PROJ 4309.20
215.484.2942
J+M Project 21-018

SEAL

PROJECT # 4309.20

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS
© 2020 VITETTA

PROJECT TITLE

PENNSYLVANIA CONVENTION CENTER
EXHIBIT HALL AND EXTERIOR
DOOR REPLACEMENT
1101 ARCH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

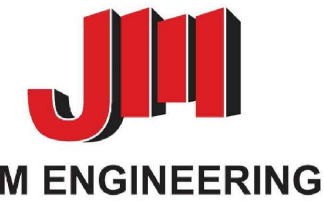
ELECTRICAL COVER SHEET

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| SCALE | AS NOTED |
| DRAWN | |
| CHECKED | |
| APPROVED | |
| DATE | OCTOBER 01, 2021 |

| REVISIONS | SYMBOL | DATE | DESCRIPTION |
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DRAWING #

E000



PENNSYLVANIA CONVENTION CENTER
 EXHIBIT HALL AND EXTERIOR
 DOOR REPLACEMENT
 1101 ARCH STREET
 PHILADELPHIA, PA 19107

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| SCALE | AS NOTED |
| DRAWN | |
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| APPROVED | |
| DATE | OCTOBER 01, 2021 |

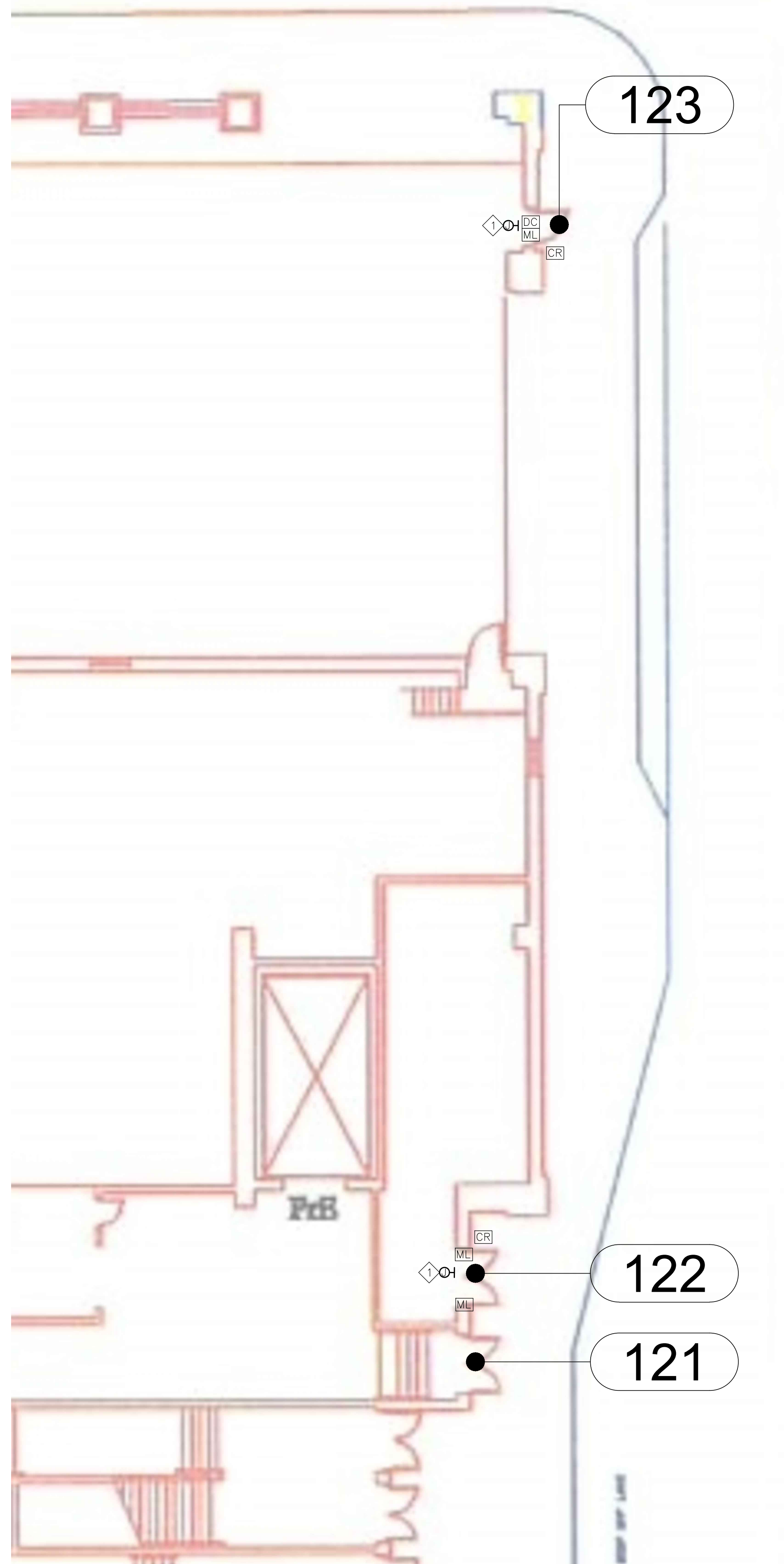
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GENERAL NOTES:

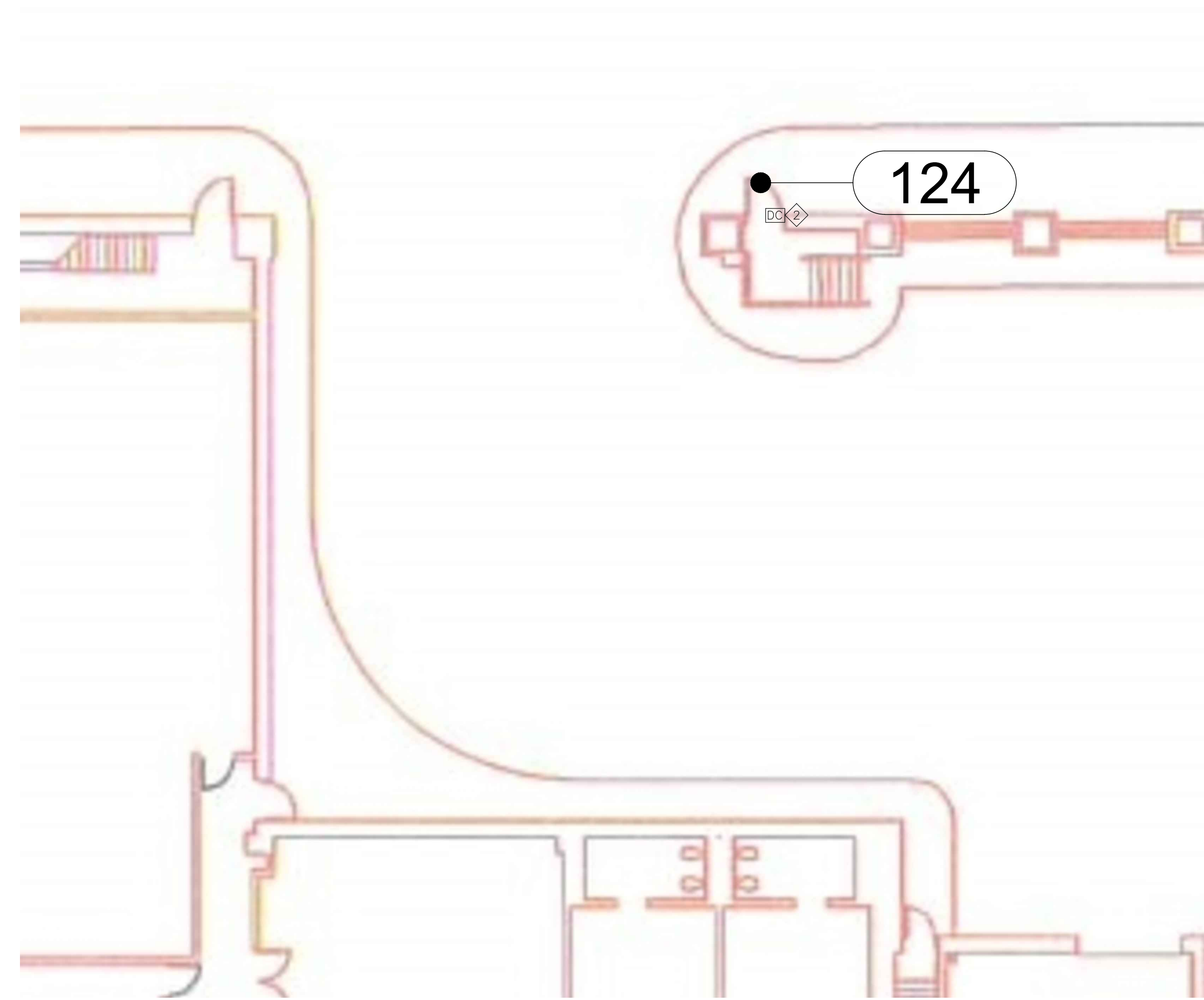
1. ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. THE ELECTRICAL WORK RELATING TO THE PROJECT IS SHOWN. OTHER EXISTING ELECTRICAL EQUIPMENT, DEVICES, AND SYSTEMS COMPONENTS HAVE BEEN LEFT OFF THE DRAWING FOR CLARITY.
3. VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
4. COORDINATE ALL WORK AND ASSOCIATED SHUT-DOWNS WITH THE PENNSYLVANIA CONVENTION CENTER AUTHORITY.
5. ALL WIRING TO BE ROUTED IN 3/4" EMT CONDUIT MINIMUM.

KEYED NEW WORK NOTES:

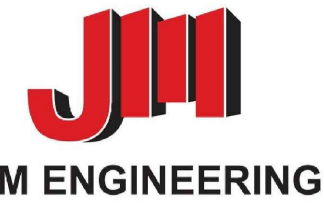
1. PROVIDE 1" CONDUIT FROM SECURITY SYSTEM HEAD END TO 8"x8"x4" JUNCTION BOX MOUNTED ABOVE THE SECURE SIDE OF DOOR AND BACK BOX(S) TO SUPPORT MAGNETIC LOCK AND CARD READER. SECURITY DEVICES AND WIRING BY SECURITY VENDOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.
2. PROVIDE 3/4" CONDUIT FROM SECURITY SYSTEM HEAD END TO DOOR FRAME TO SUPPORT DOOR CONTACTS. SECURITY DEVICES AND WIRING BY SECURITY VENDOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.



1 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOORS 122 & 123
 1/8" = 1'



2 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOOR 124
 1/8" = 1'



PENNSYLVANIA CONVENTION CENTER
 EXHIBIT HALL AND EXTERIOR
 DOOR REPLACEMENT
 1101 ARCH STREET
 PHILADELPHIA, PA 19107

DRAWING TITLE
 ELECTRICAL STREET LEVEL POWER & SYSTEMS PLANS

SCALE AS NOTED
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE OCTOBER 01, 2021

| REVISIONS | SYMBOL | DATE | DESCRIPTION |
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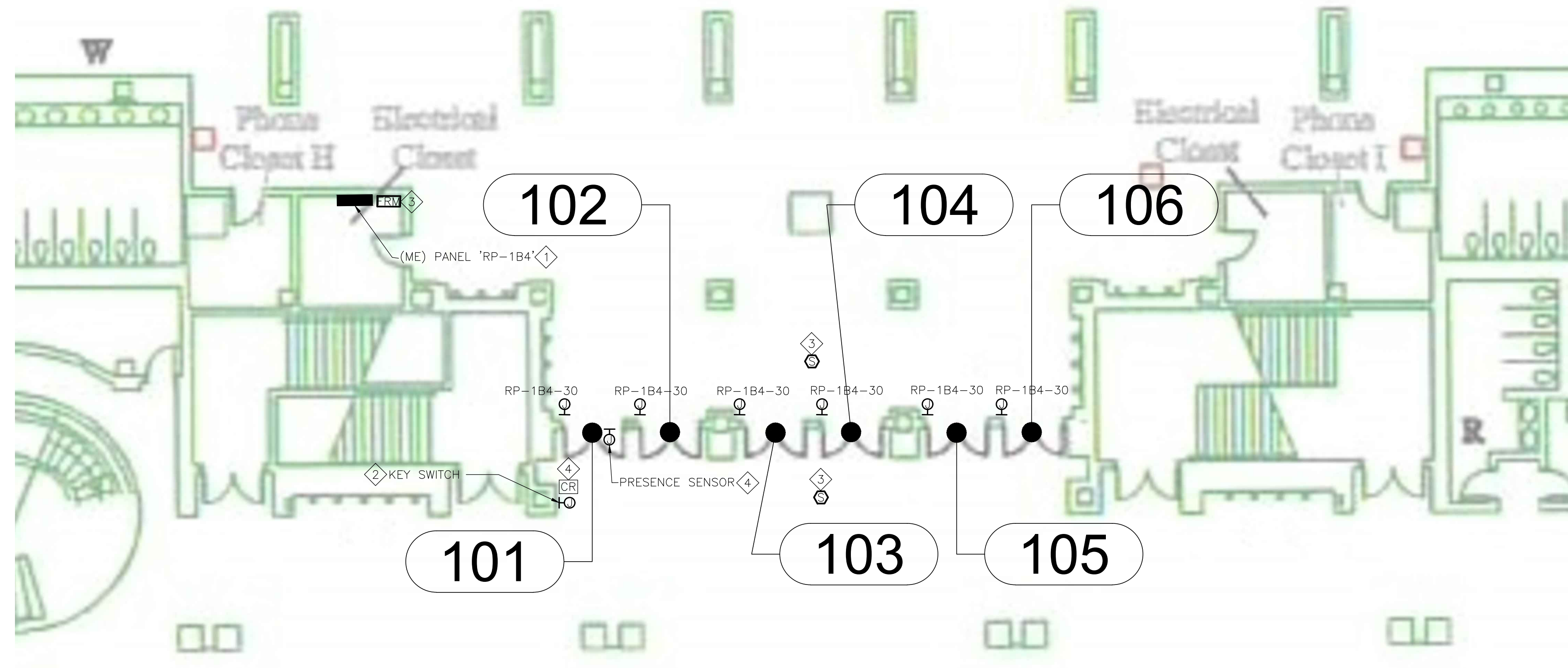
DRAWING #
E401

GENERAL NOTES:

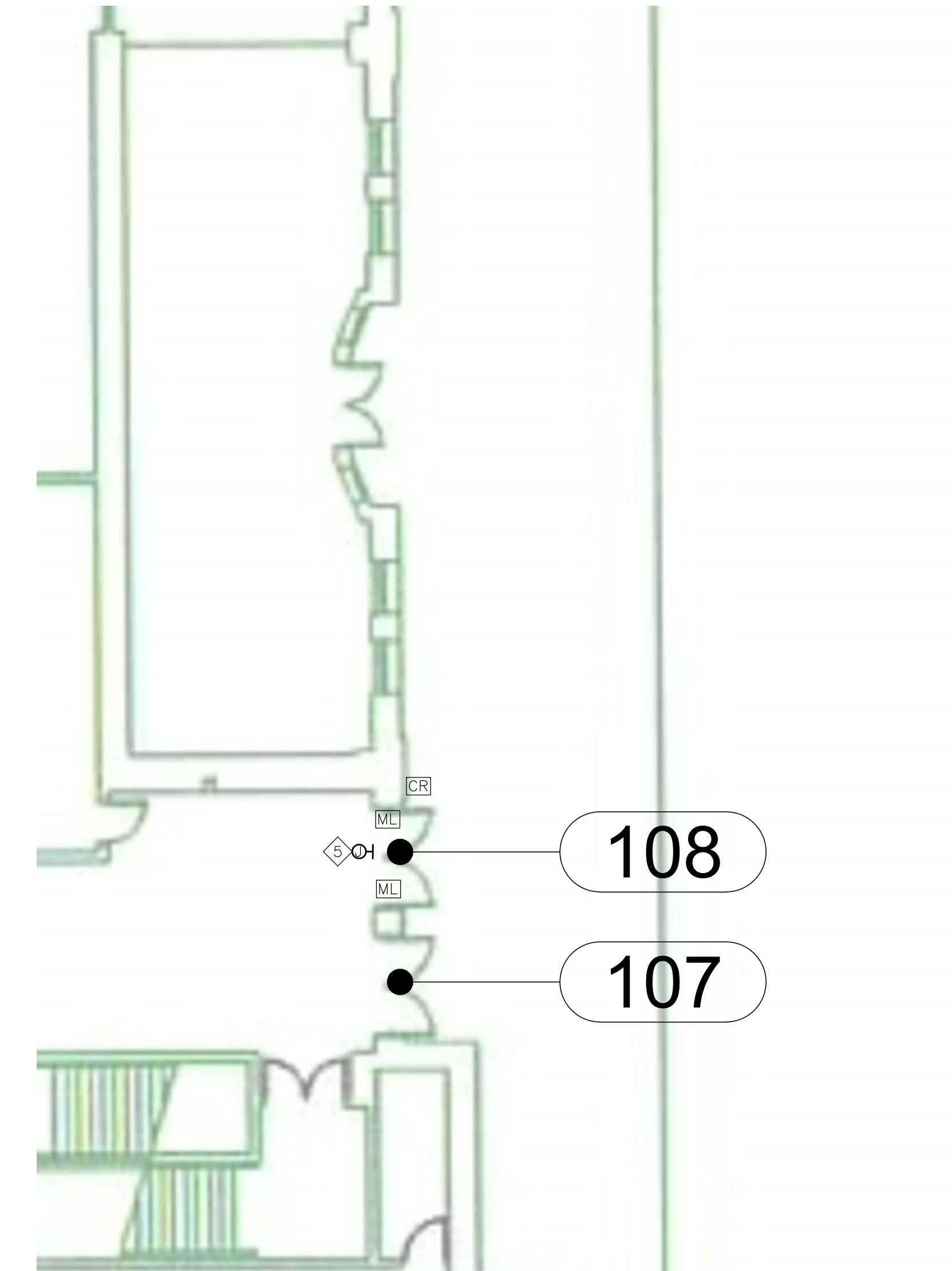
1. ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
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3. VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
4. COORDINATE ALL WORK AND ASSOCIATED SHUT-DOWNS WITH THE PENNSYLVANIA CONVENTION CENTER AUTHORITY.
5. ALL WIRING TO BE ROUTED IN 3/4" EMT CONDUIT MINIMUM.
6. REFER TO ELECTRICAL PANEL SCHEDULES ON DRAWING E700 FOR CIRCUITING.

KEYED NEW WORK NOTES:

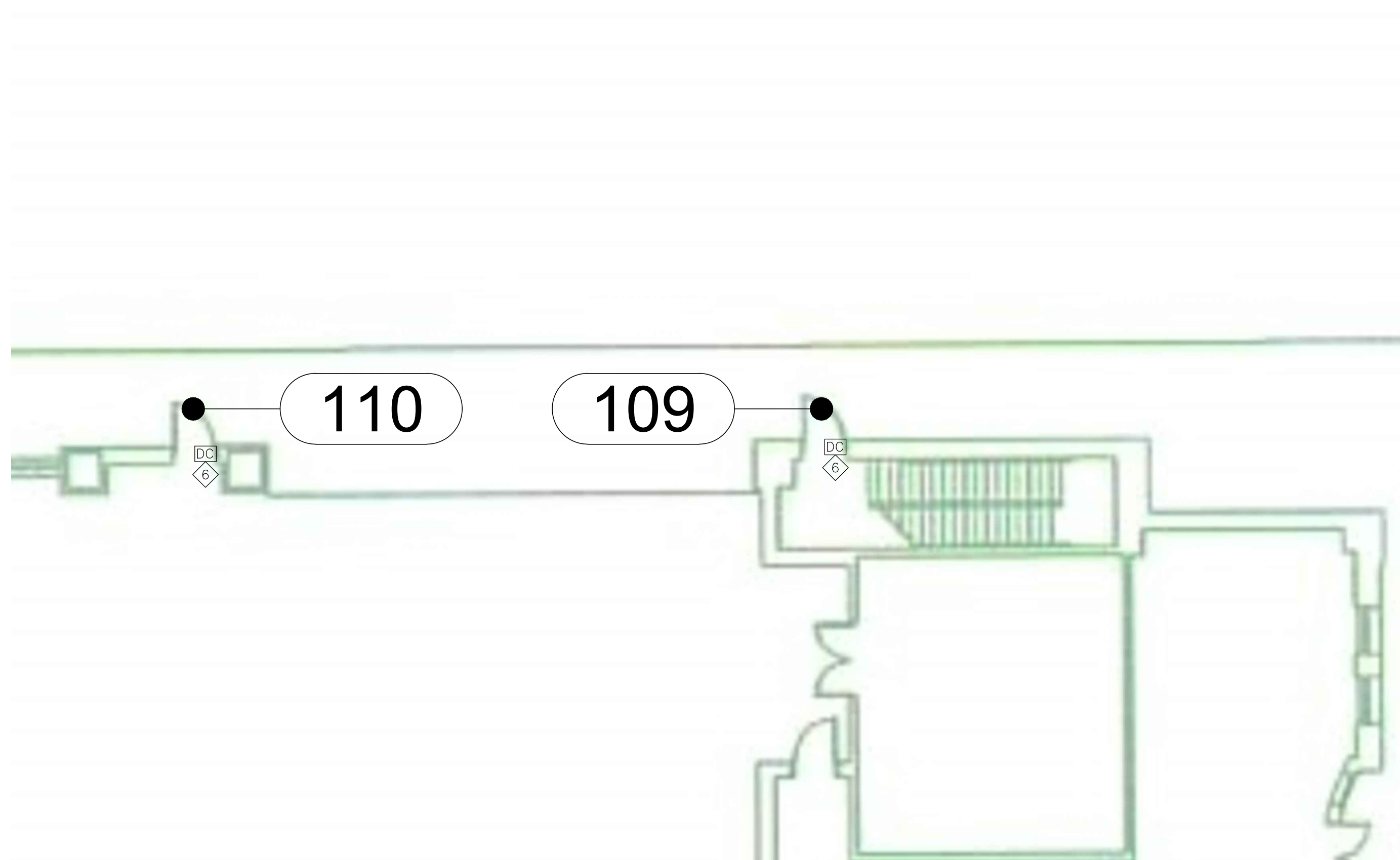
1. UTILIZE EXISTING PANELBOARD TO POWER NEW DOOR OPERATORS. REFER TO PANELBOARD SCHEDULES FOR REQUIRED MODIFICATIONS AND WIRE SIZES.
2. PROVIDE 3/4" CONDUIT FROM DOOR OPERATORS TO KEY SWITCH. MOMENTARY KEY SWITCH TO OPERATE ALL DOORS IN GROUP AT THE SAME TIME. COORDINATE INSTALLATION WITH SECURITY VENDOR.
3. PROVIDE SMOKE DETECTORS AND FIRE ALARM RELAY TO SHUNT 120V POWER FROM DOOR OPERATORS AND CLOSE FIRE DOORS UPON A FIRE CONDITION. PROVIDE PROGRAMMING AT SIEMENS FIRE ALARM CONTROL PANEL TO ACCEPT NEW FIRE ALARM SMOKE DETECTORS AND RELAY MODULE.
4. PROVIDE 1" CONDUIT FROM SECURITY HEAD END TO CARD READER. PROVIDE 3/4" CONDUIT FROM PRESENCE SENSOR TO LEFT-MOST DOOR IN GROUP. CARD READER AND PRESENCE SENSOR CONFIGURED TO OPEN LEFT-MOST DOOR IN GROUP. MOUNT PRESENCE SENSOR ABOVE DOOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.
5. PROVIDE 1" CONDUIT FROM SECURITY SYSTEM HEAD END TO 8"x8"x4" JUNCTION BOX MOUNTED ABOVE THE SECURE SIDE OF DOOR AND BACK BOX(S) TO SUPPORT MAGNETIC LOCK AND CARD READER. SECURITY DEVICES AND WIRING BY SECURITY VENDOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.
6. PROVIDE 3/4" CONDUIT FROM SECURITY SYSTEM HEAD END TO DOOR FRAME TO SUPPORT DOOR CONTACTS. SECURITY DEVICES AND WIRING BY SECURITY VENDOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.



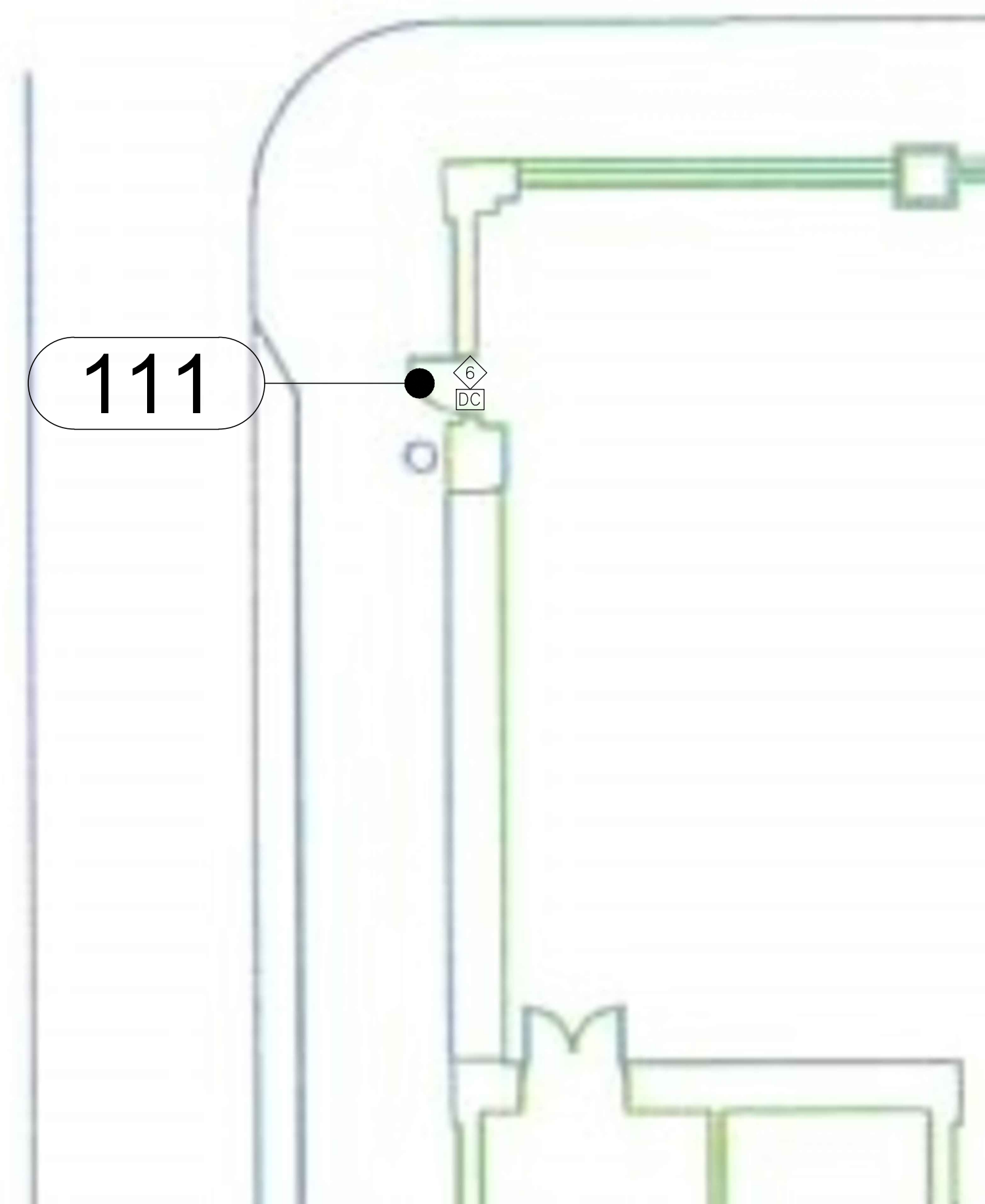
1 ELECTRICAL STREET LEVEL EXHIBIT HALL F PARTIAL FLOOR PLAN: DOORS 101-106
 1/8" = 1'



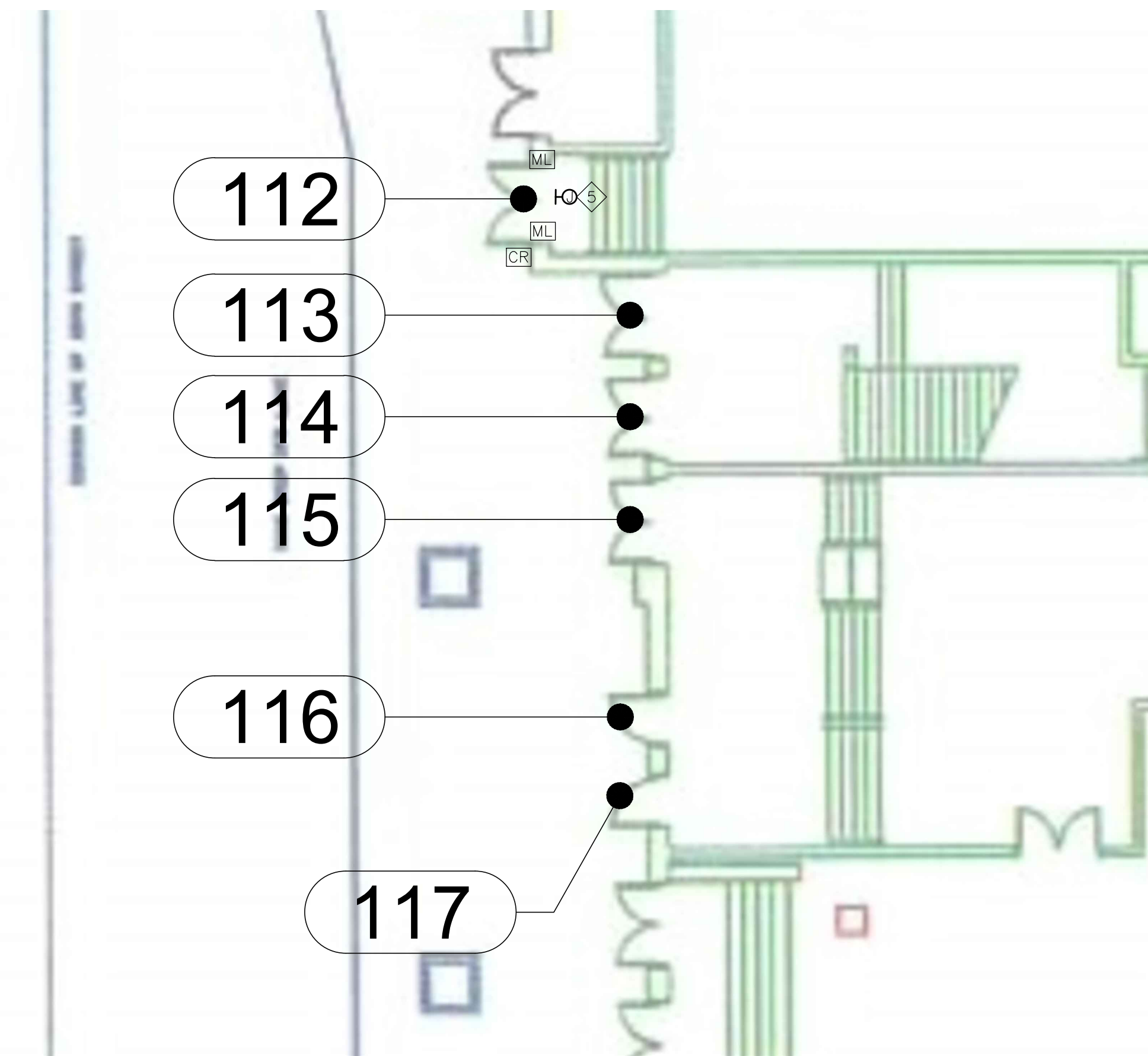
2 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOOR 108
 1/8" = 1'



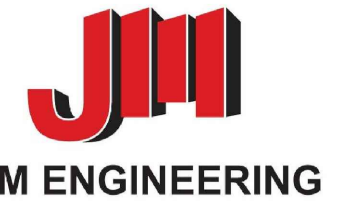
3 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOORS 109 & 110
 1/8" = 1'



4 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOOR 111
 1/8" = 1'



5 ELECTRICAL STREET LEVEL PARTIAL FLOOR PLAN: DOOR 112
 1/8" = 1'



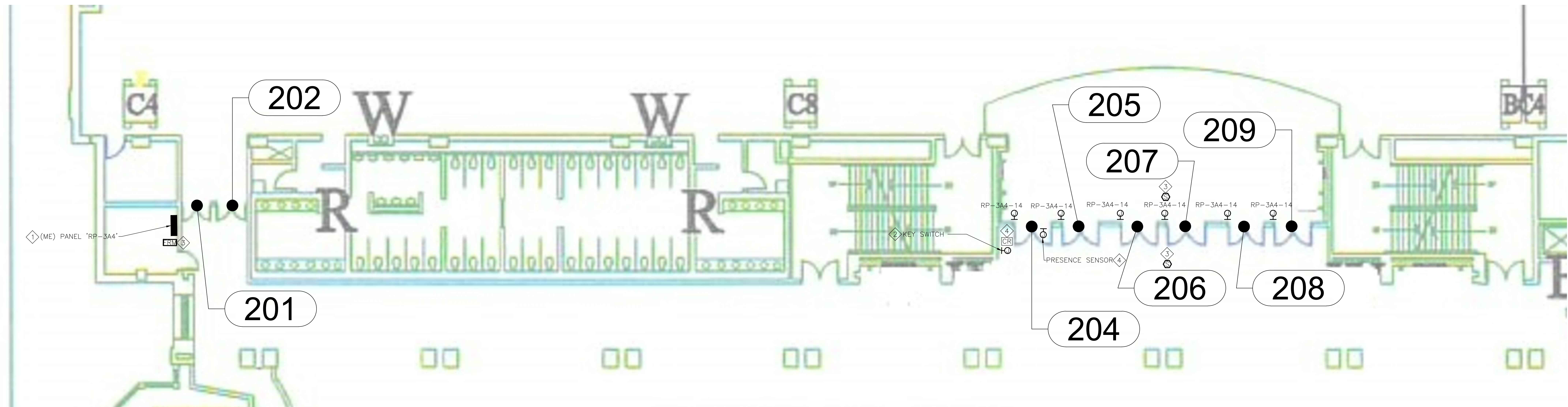
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GENERAL NOTES:

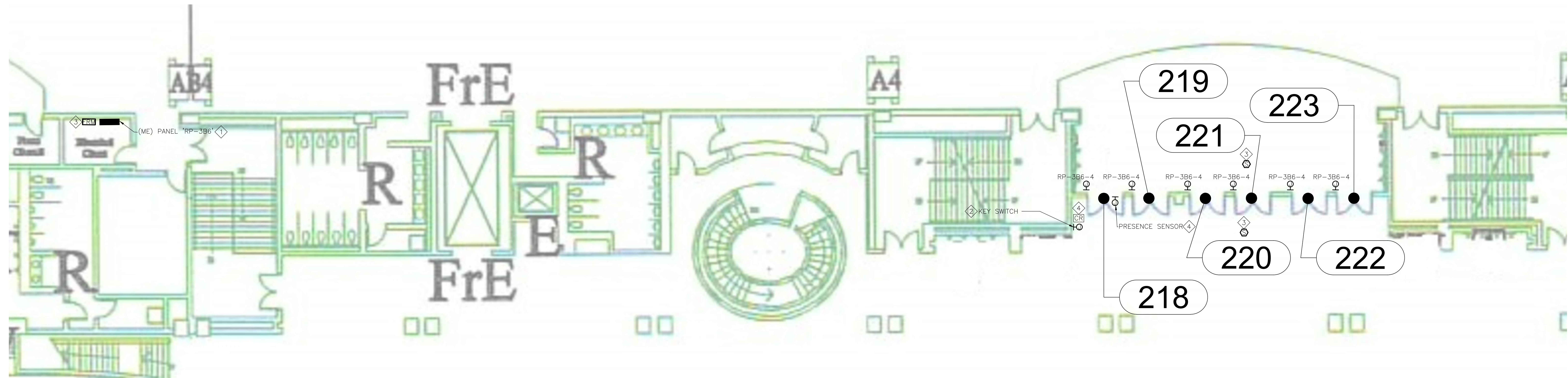
- ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
- THE ELECTRICAL WORK RELATING TO THE PROJECT IS SHOWN. OTHER EXISTING ELECTRICAL EQUIPMENT, DEVICES, AND SYSTEMS COMPONENTS HAVE BEEN LEFT OFF THE DRAWING FOR CLARITY.
- VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
- COORDINATE ALL WORK AND ASSOCIATED SHUT-DOWNS WITH THE PENNSYLVANIA CONVENTION CENTER AUTHORITY.
- ALL WIRING TO BE ROUTED IN 3/4" EMT CONDUIT MINIMUM.
- REFER TO ELECTRICAL PANEL SCHEDULES ON DRAWING E700 FOR CIRCUITING.

KEYED NEW WORK NOTES:

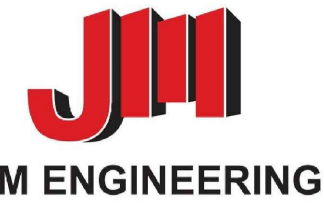
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- ◇ PROVIDE 3/4" CONDUIT FROM DOOR OPERATORS TO KEY SWITCH. MOMENTARY KEY SWITCH TO OPERATE ALL DOORS IN GROUP AT THE SAME TIME. COORDINATE INSTALLATION WITH SECURITY VENDOR.
- ◇ PROVIDE SMOKE DETECTORS AND FIRE ALARM RELAY TO SHUNT 120V POWER FROM DOOR OPERATORS AND CLOSE FIRE DOORS UPON A FIRE CONDITION. PROVIDE PROGRAMMING AT SIEMENS FIRE ALARM CONTROL PANEL TO ACCEPT NEW FIRE ALARM SMOKE DETECTORS AND RELAY MODULE.
- ◇ PROVIDE 1" CONDUIT FROM SECURITY HEAD END TO CARD READER. PROVIDE 3/4" CONDUIT FROM PRESENCE SENSOR TO LEFT-MOST DOOR IN GROUP. CARD READER AND PRESENCE SENSOR CONFIGURED TO OPEN LEFT-MOST DOOR IN GROUP. MOUNT PRESENCE SENSOR ABOVE DOOR. COORDINATE INSTALLATION WITH SECURITY VENDOR.



1 ELECTRICAL HALL LEVEL EXHIBIT HALL C PARTIAL FLOOR PLAN: DOORS 204-208
 1/8" = 1'



2 ELECTRICAL HALL LEVEL EXHIBIT HALL A PARTIAL FLOOR PLAN: DOORS 218-223
 1/8" = 1'



J+M ENGINEERING
 215.482.2942
 215.482.2942
 215.482.2942

ELECTRICAL PANEL SCHEDULE - HOUSE (ME) RP-3A4

3 PHASE 4 WIRE MAIN BUS RATING: 125A
 200/ 120V NEUT. BUS: 125A MLO
 22 KAIC SURFACE MOUNTED GRD. BUS: X
 LOCATION: SEE PLANS

| CKT | TR | P | DESCRIPTION | A | B | C | A | B | C | DESCRIPTION | P | TR | CKT |
|-----|----|---|---------------|------|------|------|------|------|------|------------------|---|----|-----|
| 1 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 2 |
| 3 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 4 |
| 5 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 6 |
| 7 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 8 |
| 9 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 10 |
| 11 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 12 |
| 13 | 20 | 1 | SPACE | - | - | - | 1.01 | - | - | (N) DOOR OPENERS | 1 | 20 | 14 |
| 15 | 20 | 1 | EXISTING LOAD | - | 0.36 | - | - | 0.18 | - | EXISTING LOAD | 1 | 20 | 16 |
| 17 | 20 | 1 | EXISTING LOAD | - | - | 0.18 | - | - | 1.20 | EXISTING LOAD | 1 | 20 | 18 |
| 19 | 20 | 1 | EXISTING LOAD | 1.20 | - | - | 1.20 | - | - | EXISTING LOAD | 1 | 20 | 20 |
| 21 | 20 | 1 | EXISTING LOAD | - | 1.20 | - | - | 1.00 | - | EXISTING LOAD | 1 | 20 | 22 |
| 23 | 20 | 1 | EXISTING LOAD | - | - | 1.20 | - | - | 1.20 | EXISTING LOAD | 1 | 20 | 24 |
| 25 | 20 | 1 | EXISTING LOAD | 0.36 | - | - | 1.20 | - | - | EXISTING LOAD | 1 | 20 | 26 |
| 27 | 20 | 1 | EXISTING LOAD | - | 1.00 | - | - | 1.00 | - | EXISTING LOAD | 1 | 20 | 28 |
| 29 | 20 | 1 | EXISTING LOAD | - | - | 1.00 | - | - | 0.36 | EXISTING LOAD | 1 | 20 | 30 |
| 31 | 20 | 1 | EXISTING LOAD | 1.00 | - | - | 0.36 | - | - | EXISTING LOAD | 1 | 20 | 32 |
| 33 | 20 | 1 | EXISTING LOAD | - | 1.00 | - | - | 0.36 | - | EXISTING LOAD | 1 | 20 | 34 |
| 35 | 20 | 1 | EXISTING LOAD | - | - | 1.20 | - | - | 0.36 | EXISTING LOAD | 1 | 20 | 36 |
| 37 | 20 | 1 | EXISTING LOAD | 0.36 | - | - | 1.00 | - | - | EXISTING LOAD | 1 | 20 | 38 |
| 39 | 20 | 1 | EXISTING LOAD | - | 0.36 | - | - | 1.00 | - | EXISTING LOAD | 1 | 20 | 40 |
| 41 | 20 | 1 | EXISTING LOAD | - | - | 0.36 | - | - | 1.00 | EXISTING LOAD | 1 | 20 | 42 |

NOTES:
 1. PROVIDE NEW CIRCUIT BREAKER MATCHING EXISTING PANEL CHARACTERISTICS TO POWER NEW LOAD. PROVIDE 2-#8-1-#6GND IN 3/4".

TOTAL KVA A: 7.69
 TOTAL KVA B: 7.46
 TOTAL KVA C: 8.06

TOTAL CONNECTED KVA: 23.21
 TOTAL CONNECTED AMPS: 64

ELECTRICAL PANEL SCHEDULE - HOUSE (ME) RP-1B4

3 PHASE 4 WIRE MAIN BUS RATING: 225A
 200/ 120V NEUT. BUS: 225A MLO
 22 KAIC SURFACE MOUNTED GRD. BUS: X
 LOCATION: SEE PLANS

| CKT | TR | P | DESCRIPTION | A | B | C | A | B | C | DESCRIPTION | P | TR | CKT |
|-----|----|---|---------------|------|------|------|------|------|------|------------------|---|----|-----|
| 1 | 20 | 2 | EXISTING LOAD | 1.50 | - | - | 0.75 | - | - | EXISTING LOAD | 1 | 20 | 2 |
| 3 | 20 | 2 | EXISTING LOAD | - | 1.50 | - | - | 1.50 | - | EXISTING LOAD | 1 | 20 | 4 |
| 5 | 20 | 2 | EXISTING LOAD | - | - | 1.50 | - | - | 1.50 | EXISTING LOAD | 1 | 20 | 6 |
| 7 | 20 | 2 | EXISTING LOAD | 1.50 | - | - | 1.50 | - | - | EXISTING LOAD | 1 | 20 | 8 |
| 9 | 20 | 2 | EXISTING LOAD | - | 1.50 | - | - | 1.50 | - | EXISTING LOAD | 1 | 20 | 10 |
| 11 | 20 | 2 | EXISTING LOAD | - | - | 1.50 | - | - | 0.18 | EXISTING LOAD | 1 | 20 | 12 |
| 13 | - | 1 | SPACE | - | - | - | - | - | - | EXISTING LOAD | 1 | 20 | 14 |
| 15 | 20 | 1 | EXISTING LOAD | - | 1.50 | - | - | 0.50 | - | EXISTING LOAD | 1 | 20 | 16 |
| 17 | 20 | 1 | EXISTING LOAD | - | - | 0.18 | - | - | 1.50 | EXISTING LOAD | 1 | 20 | 18 |
| 19 | 20 | 1 | EXISTING LOAD | 1.20 | - | - | 1.20 | - | - | EXISTING LOAD | 1 | 20 | 20 |
| 21 | 20 | 1 | EXISTING LOAD | - | 1.20 | - | - | 1.20 | - | EXISTING LOAD | 1 | 20 | 22 |
| 23 | 20 | 1 | EXISTING LOAD | - | - | 1.20 | - | - | 1.20 | EXISTING LOAD | 1 | 20 | 24 |
| 25 | 20 | 1 | EXISTING LOAD | 1.20 | - | - | 1.20 | - | - | EXISTING LOAD | 1 | 20 | 26 |
| 27 | 20 | 1 | EXISTING LOAD | - | 1.20 | - | - | 1.20 | - | EXISTING LOAD | 1 | 20 | 28 |
| 29 | 20 | 1 | EXISTING LOAD | - | - | 0.18 | - | - | 1.01 | (N) DOOR OPENERS | 1 | 20 | 30 |
| 31 | 20 | 1 | EXISTING LOAD | 1.20 | - | - | 0.36 | - | - | EXISTING LOAD | 1 | 20 | 32 |
| 33 | 20 | 1 | EXISTING LOAD | - | 0.18 | - | - | 0.36 | - | EXISTING LOAD | 1 | 20 | 34 |
| 35 | 20 | 1 | EXISTING LOAD | - | - | 1.20 | - | - | 1.20 | EXISTING LOAD | 1 | 20 | 36 |
| 37 | 20 | 1 | EXISTING LOAD | 1.20 | - | - | 4.00 | - | - | EXISTING LOAD | 1 | 20 | 38 |
| 39 | - | 1 | SPACE | - | - | - | - | - | - | EXISTING LOAD | 3 | 60 | 40 |
| 41 | - | 1 | SPACE | - | - | - | - | - | - | EXISTING LOAD | 1 | 20 | 42 |

NOTES:
 1. UTILIZE EXISTING CIRCUIT BREAKER TO POWER NEW LOAD. PROVIDE 2-#12-1-#12GND IN 3/4".

TOTAL KVA A: 18.31
 TOTAL KVA B: 17.34
 TOTAL KVA C: 16.35

TOTAL CONNECTED KVA: 52.00
 TOTAL CONNECTED AMPS: 144

ELECTRICAL PANEL SCHEDULE - HOUSE (ME) RP-3B6

3 PHASE 4 WIRE MAIN BUS RATING: 125A
 200/ 120V NEUT. BUS: 125A MCB
 22 KAIC SURFACE MOUNTED GRD. BUS: X
 LOCATION: SEE PLANS

| CKT | TR | P | DESCRIPTION | A | B | C | A | B | C | DESCRIPTION | P | TR | CKT |
|-----|----|---|---------------|------|------|------|------|------|---|------------------|---|----|-----|
| 1 | 20 | 1 | EXISTING LOAD | 1.00 | - | - | 0.50 | - | - | EXISTING LOAD | 1 | 20 | 2 |
| 3 | 20 | 1 | EXISTING LOAD | - | 1.00 | - | - | 1.01 | - | (N) DOOR OPENERS | 1 | 20 | 4 |
| 5 | 20 | 1 | EXISTING LOAD | - | - | 1.00 | - | - | - | SPACE | 1 | 20 | 6 |
| 7 | 20 | 1 | EXISTING LOAD | 0.36 | - | - | - | - | - | SPACE | 1 | 20 | 8 |
| 9 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 10 |
| 11 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 12 |
| 13 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 14 |
| 15 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 16 |
| 17 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 18 |
| 19 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 20 |
| 21 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 22 |
| 23 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 24 |
| 25 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 26 |
| 27 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 28 |
| 29 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 30 |
| 31 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 32 |
| 33 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 34 |
| 35 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 36 |
| 37 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 38 |
| 39 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 40 |
| 41 | 20 | 1 | SPACE | - | - | - | - | - | - | SPACE | 1 | 20 | 42 |

NOTES:
 1. UTILIZE EXISTING CIRCUIT BREAKER TO POWER NEW LOAD. PROVIDE 2-#8-1-#6GND IN 3/4".

TOTAL KVA A: 1.86
 TOTAL KVA B: 2.01
 TOTAL KVA C: 1.00

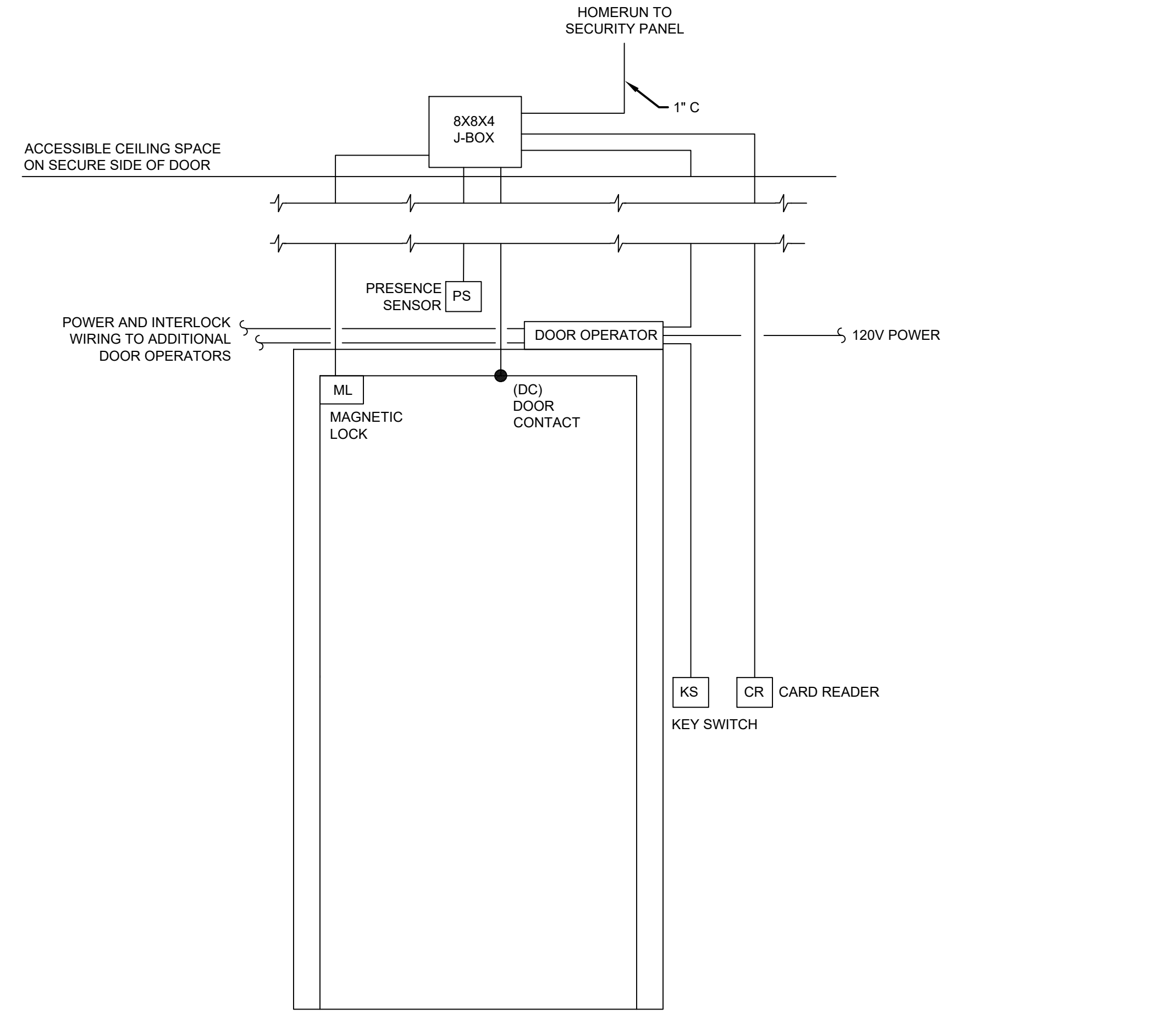
TOTAL CONNECTED KVA: 4.87
 TOTAL CONNECTED AMPS: 14

Monitored Doors Scheduled For Replacement

| | |
|-----|-----|
| 107 | 224 |
| 108 | 225 |
| 109 | 226 |
| 112 | 228 |
| 113 | 229 |
| 114 | 230 |
| 115 | 231 |
| 116 | 232 |
| 117 | 236 |
| 118 | 237 |
| 119 | 238 |
| 120 | 239 |
| 121 | 242 |
| 122 | 243 |
| 201 | 244 |
| 202 | 245 |
| 203 | 248 |
| 210 | 249 |
| 211 | 250 |
| 216 | 251 |
| 217 | 252 |

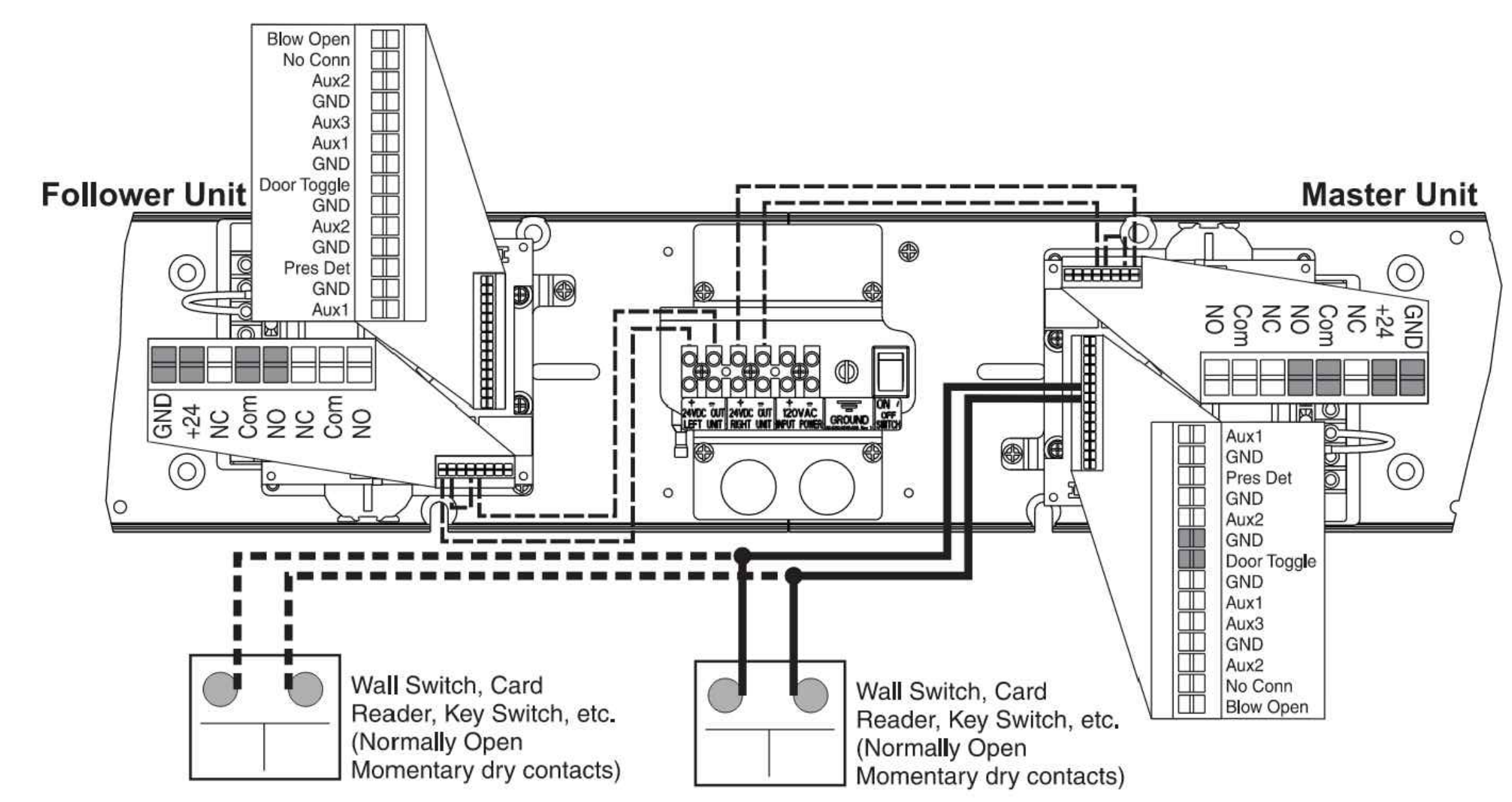
2 MONITORED DOOR REPLACEMENT SCHEDULE
 N.T.S.

- NEW WORK NOTES:
- FOR ALL DOORS NOTED IN REPLACEMENT SCHEDULE, DISCONNECT EXISTING DOOR CONTACTS FOR REMOVAL OF EXISTING DOOR, PREP NEW DOOR FRAME FOR NEW DOOR CONTACTS, AND RECONNECT TO ACCESS CONTROL SYSTEM. COORDINATE INSTALLATION WITH SECURITY VENDOR.

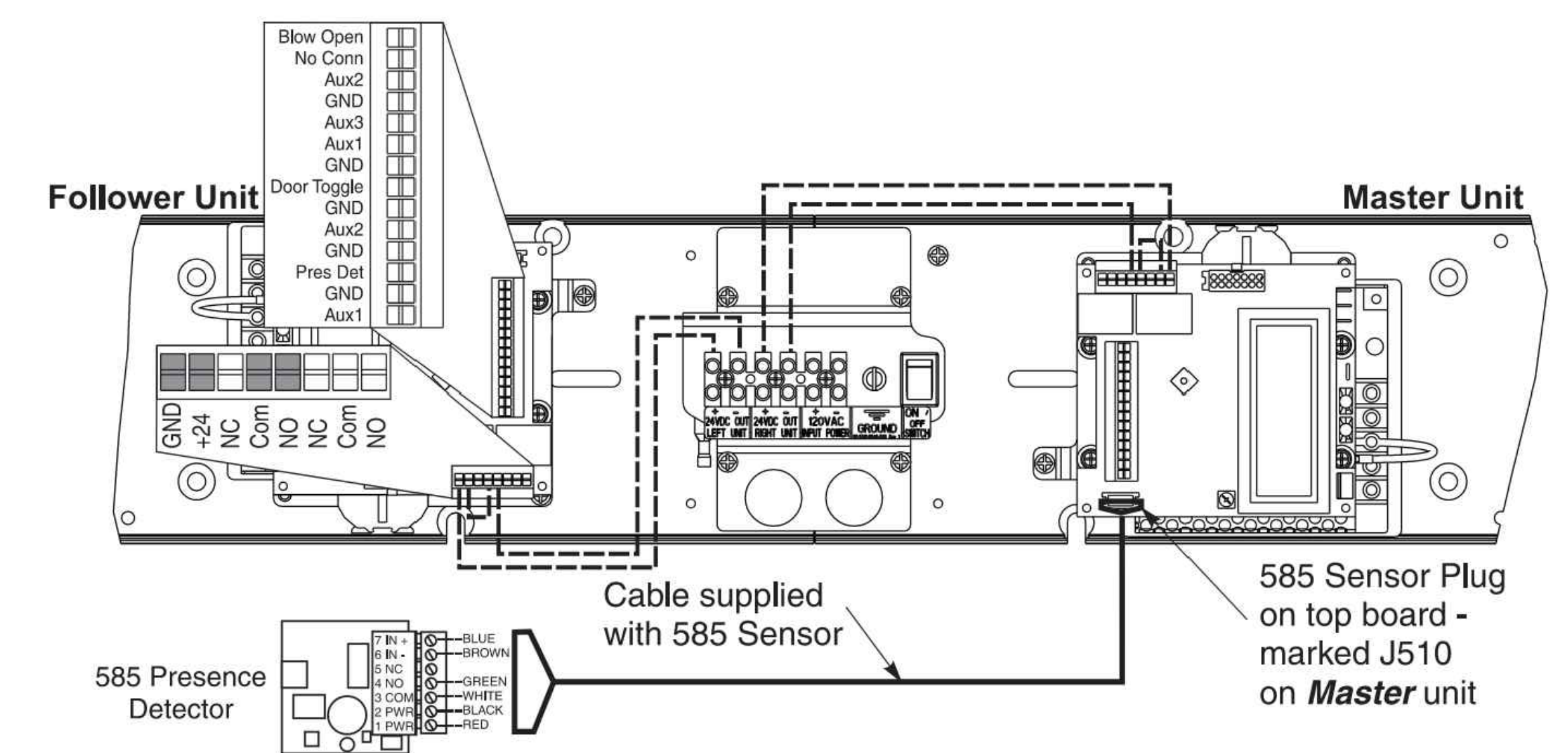


1 DOOR WIRING DETAIL
 N.T.S.

- NEW WORK NOTES:
- REFER TO FLOOR PLANS FOR DOOR CONFIGURATION AND REQUIRED DEVICES.
 - ALL LOW VOLTAGE CABLING AND HARDWARE TO BE FURNISHED AND INSTALLED BY SECURITY VENDOR. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ALL BACKBOXES, RACEWAYS, AND POWER WIRING.
 - PROVIDE 3/4" CONDUIT TO ALL DOOR DEVICE LOCATIONS UNLESS OTHERWISE NOTED.



3 DOOR BANK KEY SWITCH ELECTRICALLY OPERATED WIRING DETAIL
 N.T.S.



4 SINGLE DOOR PRESENCE SENSOR WIRING DETAIL
 N.T.S.