

WAKELY ASSOCIATES, INC.  
ARCHITECTS  
30500 Van Dyke Avenue Suite 209  
Warren, Michigan 48093

ADDENDUM NO. ONE  
WARREN WOODS PUBLIC SCHOOLS  
TOWER HS-TITAN EXPRESS SERVERY  
HAWTHORN FOOD PROGRAM FREEZER REPL.  
Page 1 of 3 (write up only)

March 21, 2025

ADDENDUM NO. 01 to the plans and specifications for the WARREN WOODS SCHOOL DISTRICT, TOWER HS – TITAN EXPRESS SERVERY-HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT, Warren, MI, Architect's Project No. 242030, dated March 11, 2025

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.

**Pre-Bid Sign In Sheet are being issued with this Addendum.**

**Drawings Cover Sheet, A7.01, A7.02, M4.01T, E0.00T, E1.00T, EP4.01T, EL4.01T and E7.00T are being issued with this Addendum.**

### **ARCHITECTURAL ITEMS**

- ITEM NO. A1:** Attached is the Pre-Bid Sign In Sheet
- ITEM NO. A2:** Regarding Prevailing Wage Documentation – Contractor shall provide Certified Payroll for each work week.
- ITEM NO. A3:** The Date of Substantial Completion may be extended into October but all major components at the Titan Express, floor replacement, masonry work, ceiling & lighting, fire suppression, OH counter door and lintel, mechanical, plumbing and electrical work needs to be completed.  
At Hawthorn freezer work is to be scheduled according to delivery of the freezer components, i.e. the demo should be scheduled accordingly so that the floor replacement is completed and cured for (28) days to minimize downtime of the freezer.
- ITEM NO. A4:** Work Hours:  
Titan Express: Physical work may start at the site immediately upon the last day of School, June 13, 2025. Hours shall be: 7am to 5pm. Hours when school resumes in the Fall (should that be needed) will be 3pm to 11pm.  
Hawthorn: As indicated in Item No. A2 of this Addendum, work shall be started on site in accordance with the anticipated delivery of the new freezer. Work hours shall be 7am to 10pm.
- ITEM NO. A5:** A fire rated separation is to be provided at the open grille counter door to separate the cafeteria from the work area per the Bureau of Fire Services (BFS) rules until directed otherwise by the BFS. Fire rated separation shall be constructed of min. 3-5/8" metal studs with 5/8" impact rated drywall with taped joints on occupied side and 1/2 fire retardant plywood on demo/work side fill partition cavity with sound deadening insulation.

- ITEM NO. A6:** Titan Express-Salvage structural glazed facing tile (SGFT) base from vending machine area for reuse. Maintain existing SGFT under the remaining counter window and adjust the FRP panel accordingly. Add stainless steel trim between the SGFT base and FRP panel similar to the sides.
- ITEM NO. A7:** For areas of masonry to be stained; stain all new brick and existing brick at all infill areas around the infill on all sides, approximately 16".
- ITEM NO. A8:** All interior walls of the Titan Express are to receive the field PCT and accent PCT as shown on interior elevation 2/A6.03.
- ITEM NO. A9:** There is only one new lintel to be installed at elevation 108'-4" at the remaining counter lintel is W8x18 w/3/8" x 11-1/2" plate welded to W8x18 deep with 8" bearing each end. Plate is 12'-0" long to match masonry opening of counter window.
- ITEM NO. A10:** Hawthorn:  
Roof type is built up roof by Tremco. Warranty expires October 22, 2029. Contact Earl Srbu of Tremco at 586-933-7069 prior to doing any roof work. All roof patching shall be done by a certified Tremco roofer and done in a manner to maintain the existing warranty. Refer to Sheet A7.02-Roof plan showing approximate location of condensing unit to be replaced.

### **ARCHITECTURAL DRAWING ITEMS**

- ITEM NO. A11:** Cover sheet revised and reissued adding sheet A7.02 Hawthorn Roof Plan.
- ITEM NO. A12:** Refer to Sheet 7.01:  
1. Detail names have been revised.

### **MECHANICAL ITEMS**

- ITEM NO. M1:** Refer to sheet M4.01T ENLARGED MECHANICAL DEMOLITION & NEW WORK FIRST FLOOR PLANS (Re-issued);  
1. Keyed note #1 does not apply and removed from drawing.

### **ELECTRICAL ITEMS**

- ITEM NO. E1:** Refer to sheet E0.00T ELECTRICAL GENERAL INFORMATION AND LIGHTING SCHEDULE (Re-issued);  
1. Revised Fixture B.

**ITEM NO. E2:** Refer to sheet E1.00T ELECTRICAL COMPOSITE PLAN (Re-issued);

1. The new transformer T-KK is now fed from KPP-2 instead of MSB as indicated on plan.
2. Added disconnect switches to the storage room next to new transformers as indicated on plan.
3. Added Fire Alarm Control Panel as indicated on plan.

**ITEM NO. E3:** Refer to sheet EP4.01T ENLARGED ELECTRICAL POWER DEMOLITION AND NEW WORK PLANS(Re-issued);

1. Added Keynote #7.

**ITEM NO. E4:** Refer to sheet EL4.01T ENLARGED ELECTRICAL LIGHTING DEMOLITION AND NEW WORK PLANS(Re-issued);

1. Revised layout of “Fixture B’s” as indicated on plan.

**ITEM NO. E5:** Refer to sheet E7.00T ELECTRICAL ONE-LINE DIAGRAMS(Re-issued);

1. Revised One-Line Diagrams as indicated.
2. Revised Keynote #1.
3. Added Load Summary.

**ITEM NO. E6:** Clarification Question: Please provide further information regarding the fire suppression system, the drawings were not included in the bid set.  
**Fire protection notation is on P4.01. Performance specification is attached with the project.**

**ITEM NO. E7:** Clarification Question: Please clarify the fire alarm manufacturer and system capacity at both locations.  
**Fire Alarm Control Panel location was added to Warren Woods Tower HS as part of Addendum #1. No fire alarm scope at Hawthorn.**

**END OF ADDENDUM NO. 01**

Cc: Don Ball, Warren Woods Public Schools  
Neil Cassabon, Warren Woods Public Schools



# WARREN WOODS PUBLIC SCHOOLS TITAN EXPRESS SERVERY HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT

ISSUED FOR: ADDENDUM 01  
DATE: MARCH 21, 2025  
PROJECT NO.: 242030

## ARCHITECT:

WAKELY ASSOCIATES, INC./ ARCHITECTS  
30500 VAN DYKE AVE, SUITE 209, WARREN, MI 48093, 586.573.4100

## FOOD SERVICE CONSULTANT:

FOOD SERVICE DESIGN, L.L.C.  
9201 FUNSTON ST., WHITE LAKE, MI 48386, 248.410.3459

## MECHANICAL/ELECTRICAL ENGINEERS

UNIFIED BUILDING SYSTEMS ENGINEERING, LLC  
26574 BRONX CT., CHESTERFIELD, MI 48051, 248.804.1741

Index of Drawings	Index of Drawings		
<p><b>TOWER HIGH SCHOOL</b></p> <p>ARCHITECTURAL DRAWINGS: G1.00 COVER</p> <p>LS6.00 LIFE SAFETY PLAN</p> <p>A6.01 COMPOSITE FLOOR PLANS A6.02 ENLARGED PLANS, SECTIONS, AND DETAILS A6.03 ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS</p> <p>MECHANICAL DRAWINGS: M0.00T MECHANICAL GENERAL INFORMATION M1.00T MECHANICAL COMPOSITE PLAN P4.00T ENLARGED PLUMBING DEMOLITION &amp; NEW WORK UNDERGROUND PLANS P4.01T ENLARGED PLUMBING DEMOLITION &amp; NEW WORK FIRST FLOOR PLANS M4.01T ENLARGED MECHANICAL DEMOLITION &amp; NEW WORK FIRST FLOOR PLANS M5.00T MECHANICAL DETAILS &amp; SCHEDULES</p> <p>ELECTRICAL DRAWINGS: E0.00T ELECTRICAL GENERAL INFORMATION &amp; LIGHTING SCHEDULE E1.00T ELECTRICAL COMPOSITE PLAN EP4.01T ENLARGED ELECTRICAL POWER DEMOLITION &amp; NEW WORK FLOOR PLANS EL4.01T ENLARGED ELECTRICAL LIGHTING DEMOLITION &amp; NEW WORK FLOOR PLANS E6.00T ELECTRICAL PANEL SCHEDULES &amp; DETAILS E7.00T ELECTRICAL ONE-LINE DIAGRAMS</p> <p>FOOD SERVICE DRAWINGS - TO BE UPDATED: FS-1 FOODSERVICE EQUIPMENT PLAN FS-2 FOODSERVICE PLUMBING PLAN FS-3 FOODSERVICE ELECTRICAL PLAN</p>	<p><b>HAWTHORN</b></p> <p>ARCHITECTURAL DRAWINGS: LS7.00 LIFE SAFETY PLAN</p> <p>A7.00 HAWTHORN COMPOSITE PLAN A7.01 HAWTHORN FREEZER PLANS AND DETAILS A7.02 HAWTHORN ROOF PLAN</p> <p>MECHANICAL DRAWINGS: M0.00H MECHANICAL GENERAL INFORMATION M1.00H MECHANICAL COMPOSITE PLAN P4.01H ENLARGED PLUMBING DEMOLITION &amp; NEW WORK FIRST FLOOR PLANS</p> <p>ELECTRICAL DRAWINGS: E0.00H ELECTRICAL GENERAL INFORMATION &amp; LIGHTING SCHEDULE E1.00H ELECTRICAL COMPOSITE PLAN EP4.01H ENLARGED ELECTRICAL POWER DEMOLITION &amp; NEW WORK FLOOR PLANS E7.00H ELECTRICAL PANEL SCHEDULES &amp; ONE-LINE RISER DIAGRAMS</p> <p>FOOD SERVICE DRAWINGS: FS-4 HAWTHORN WALK-IN PLAN</p>		
<p><b>Building Addresses</b></p> <table border="1"> <tr> <td>HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049</td> <td>TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049</td> </tr> </table>		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049		
<p><b>Location Map</b></p>			

**ROOM FINISH SCHEDULE**

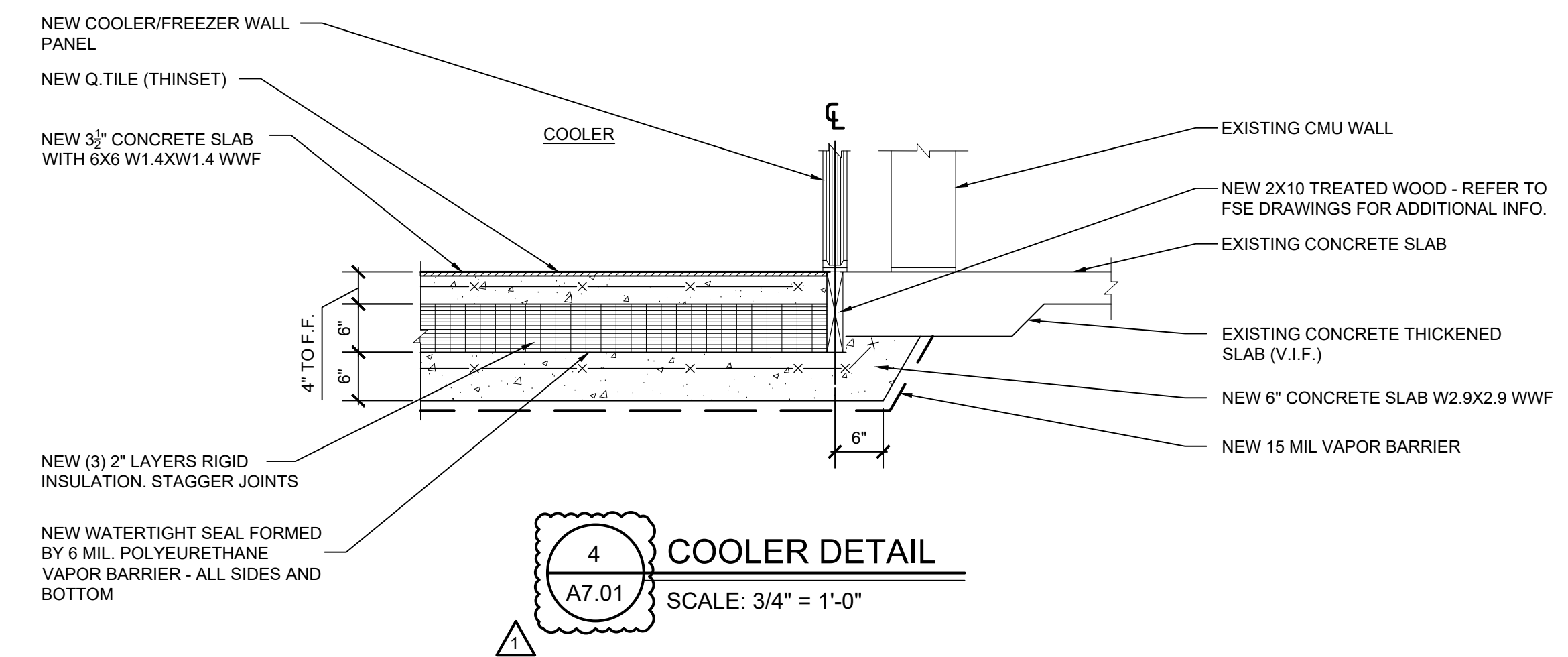
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
					MATERIAL	HGT.	
100	COOLER	Q.TILE	Q.TILE	PFP	PFP	7'-5"	1
101	FREEZER	Q.TILE	Q.TILE	PFP	PFP	7'-5"	1

**ROOM FINISH REMARKS:**

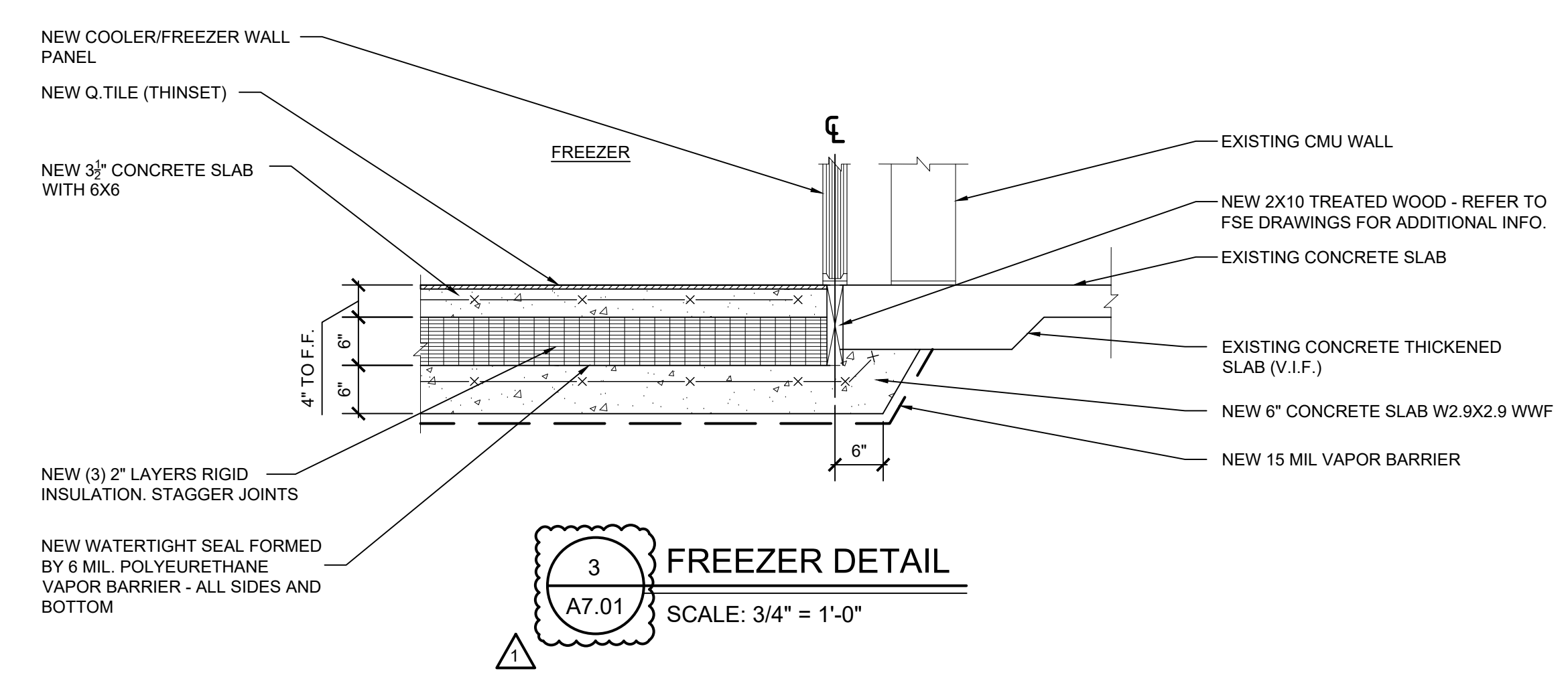
- REFER TO FSE DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.

**ABBREVIATIONS**

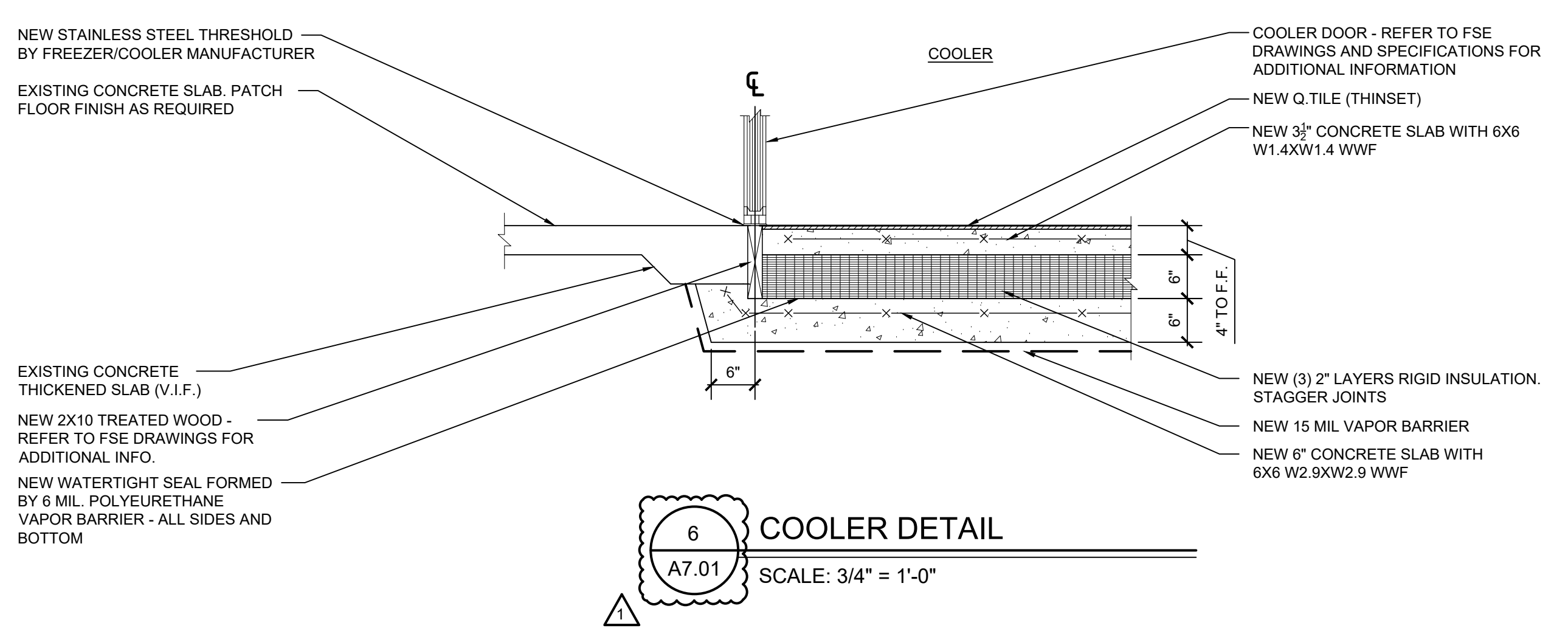
- PFP PRE-FINISHED PANELS  
 ETR EXISTING TO REMAIN  
 ACT ACOUSTIC CEILING TILE (REFER TO SPECS)  
 PT PAINT



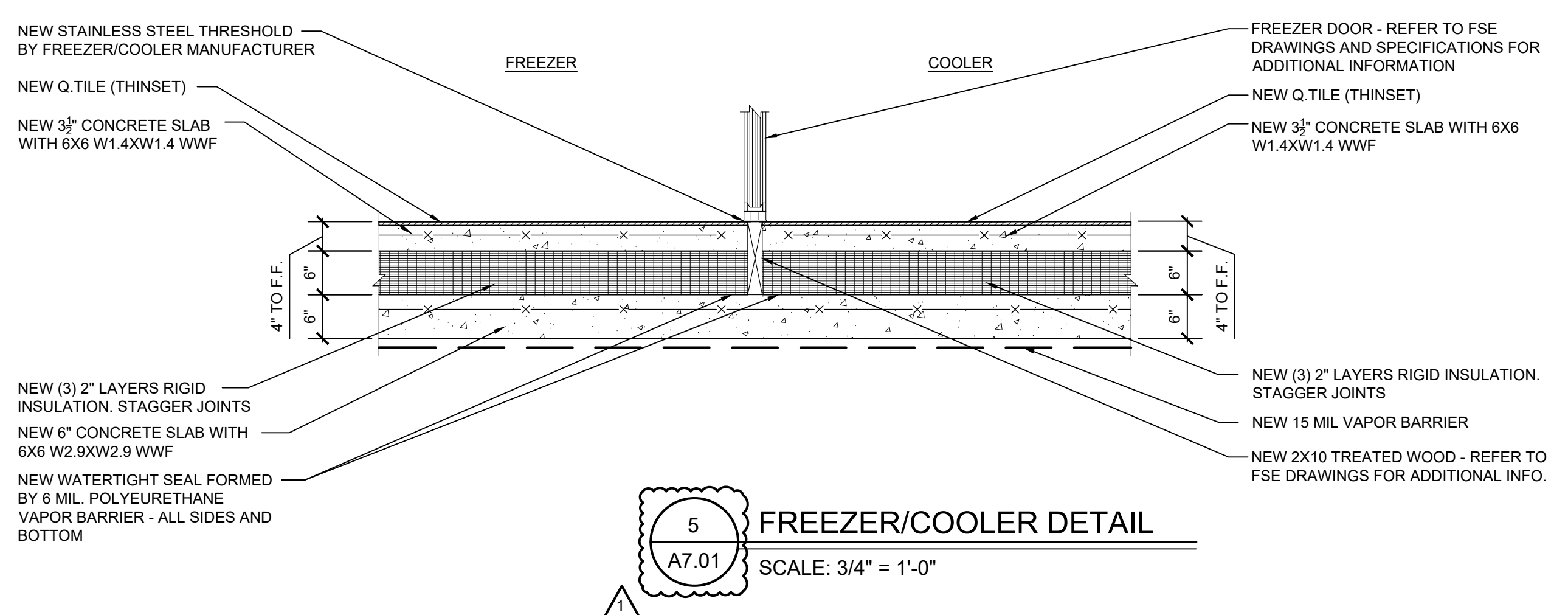
**4 COOLER DETAIL**  
 SCALE: 3/4" = 1'-0"



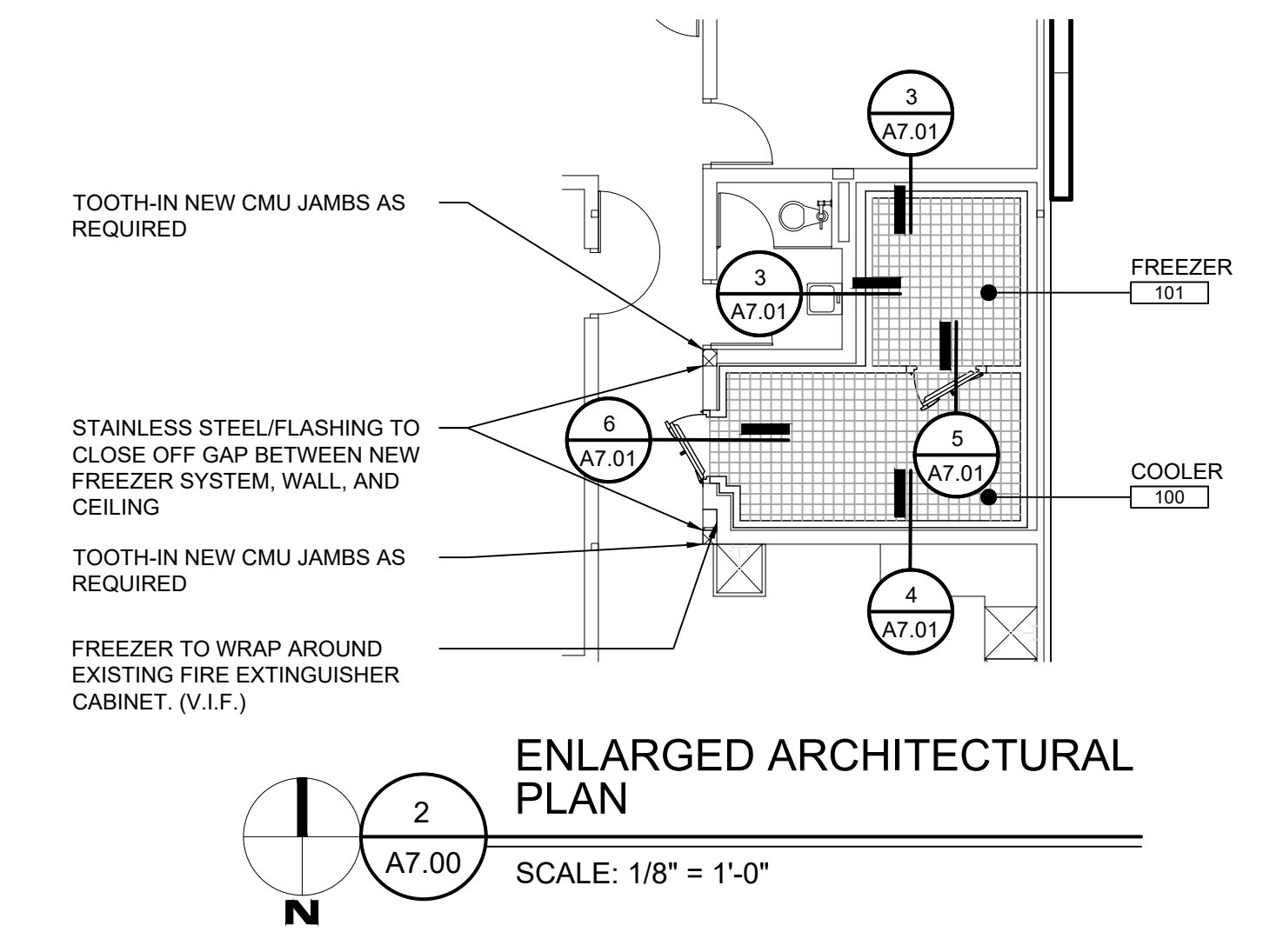
**3 FREEZER DETAIL**  
 SCALE: 3/4" = 1'-0"



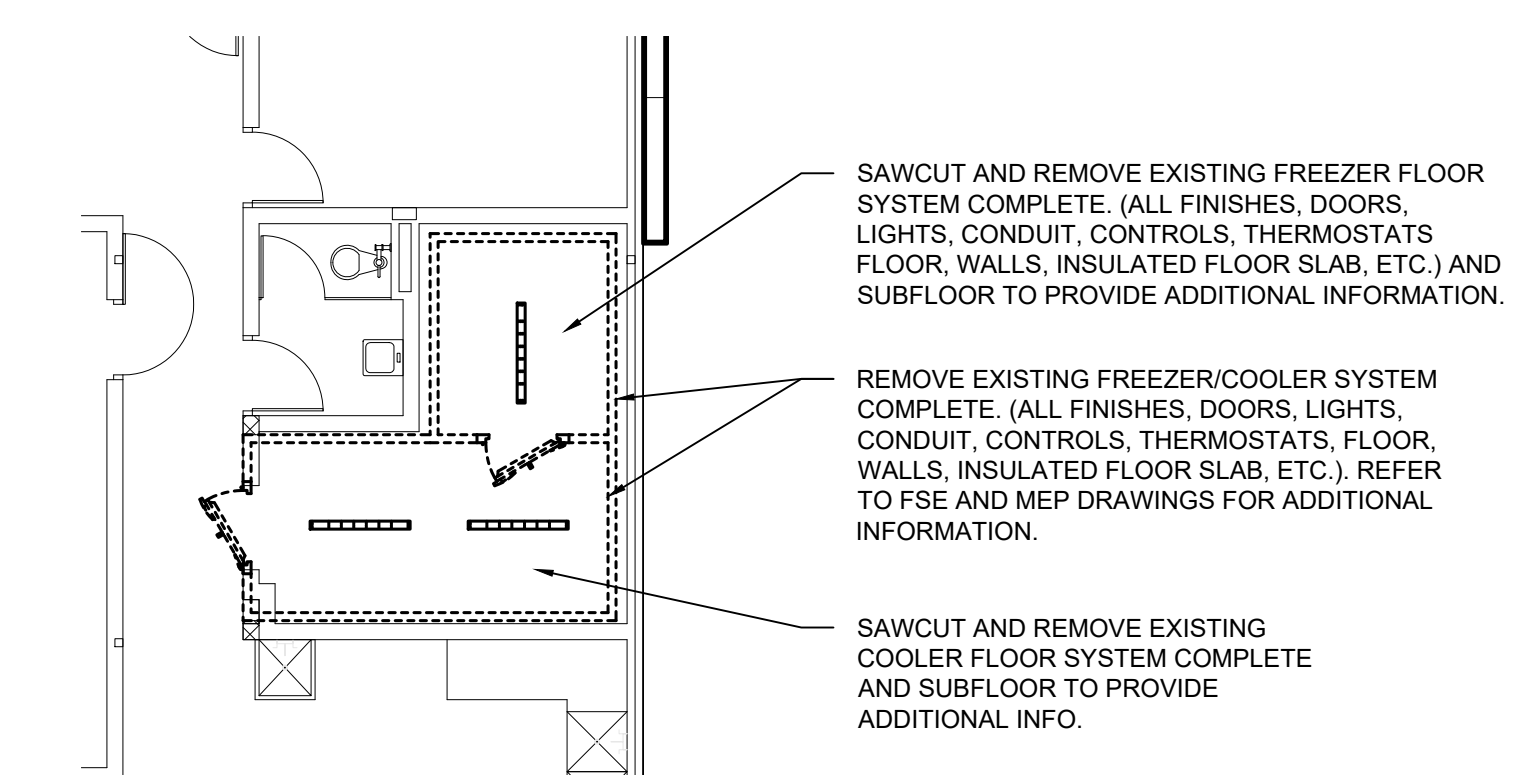
**6 COOLER DETAIL**  
 SCALE: 3/4" = 1'-0"



**5 FREEZER/COOLER DETAIL**  
 SCALE: 3/4" = 1'-0"



**2 ENLARGED ARCHITECTURAL PLAN**  
 SCALE: 1/8" = 1'-0"



**1 ENLARGED ARCHITECTURAL DEMO PLAN**  
 SCALE: 1/8" = 1'-0"



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**WARREN WOODS PUBLIC SCHOOL DISTRICT  
 TOWER HS - TITAN EXPRESS SERVERY  
 HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT**

HAWTHORN  
 ENLARGED FREEZER PLANS  
 AND DETAILS

- PRELIMINARY   
 DESIGN DEVELOPMENT   
 CONSTRUCTION   
 FINAL RECORD
- DRAWN BY TDM  
 CHECKED BY RAS
- REVISIONS  
 OWNER REVIEW 02/28/2025  
 BID SET 03/11/2025  
 ADDENDUM 01 03/21/2025

DATE: FEBRUARY 28, 2025  
 SHEET NO.

**A7.01**

JOB NO. 242030

**NOTES:**

ALL ROOF PATCHING SHOULD BE DONE BY A CERTIFIED TREMCO ROOFER, AND SHOULD BE DONE IN A MANNER THAT MAINTAINS THE EXISTING WARRANTY.  
(WARRANTY EXPIRES OCTOBER, 22, 2029)

CONTACT TREMCO REP EARL SRBU 1-586-033-7069 PRIOR TO ANY ROOF WORK.



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WARREN WOODS PUBLIC SCHOOL DISTRICT  
**TOWER HS - TITAN EXPRESS SERVERY**  
HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT



**ROOF PLAN**  
SCALE: 1/16"=1'-0"

HAWTHORN  
ROOF PLAN

PRELIMINARY   
DESIGN DEVELOPMENT   
CONSTRUCTION   
FINAL RECORD

DRAWN BY: TDM  
CHECKED BY: RAS

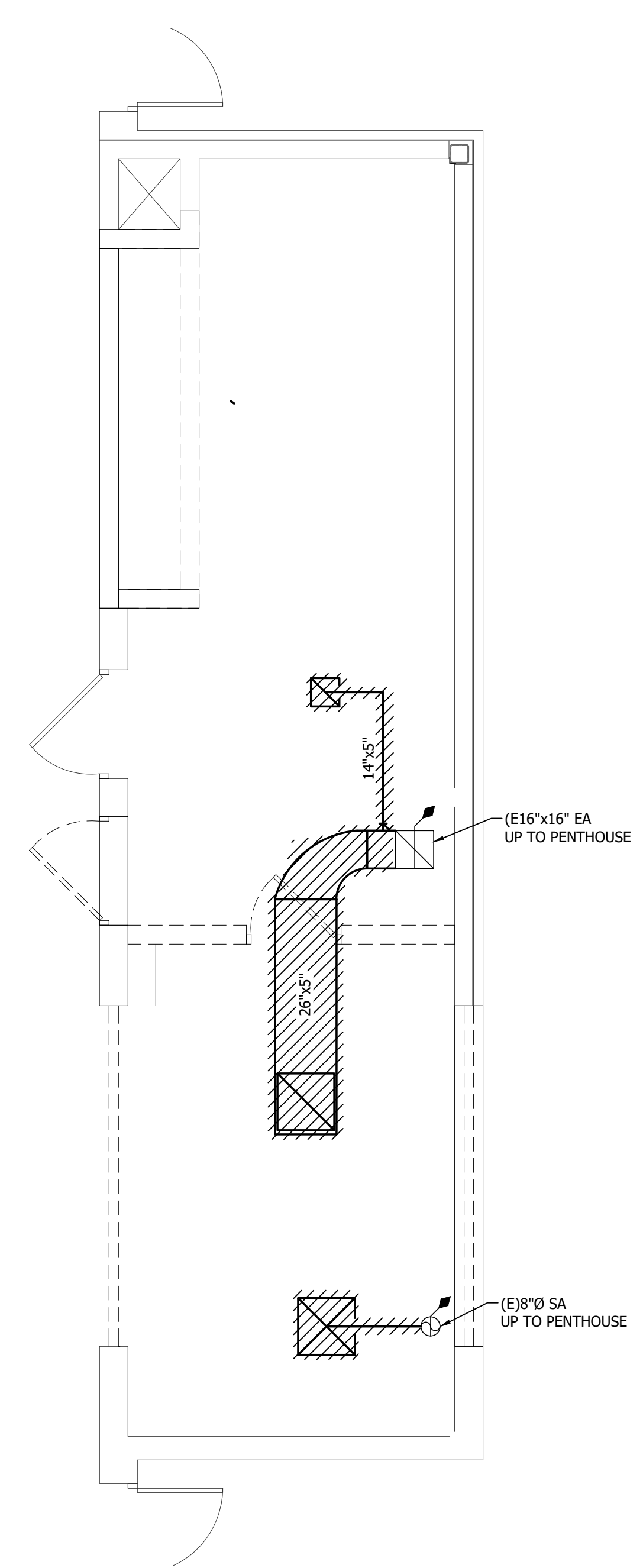
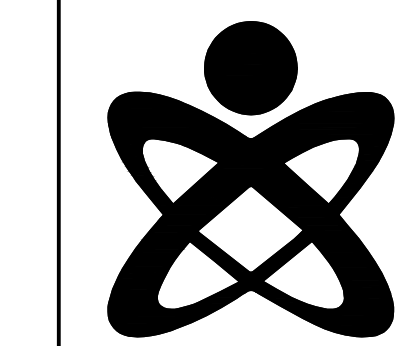
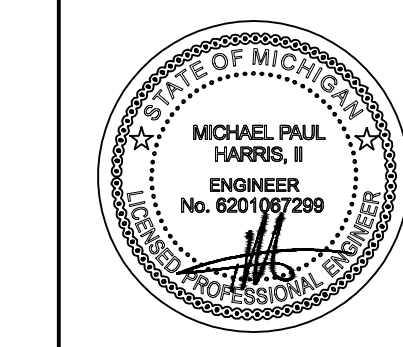
REVISIONS  
OWNER REVIEW 02/28/2025  
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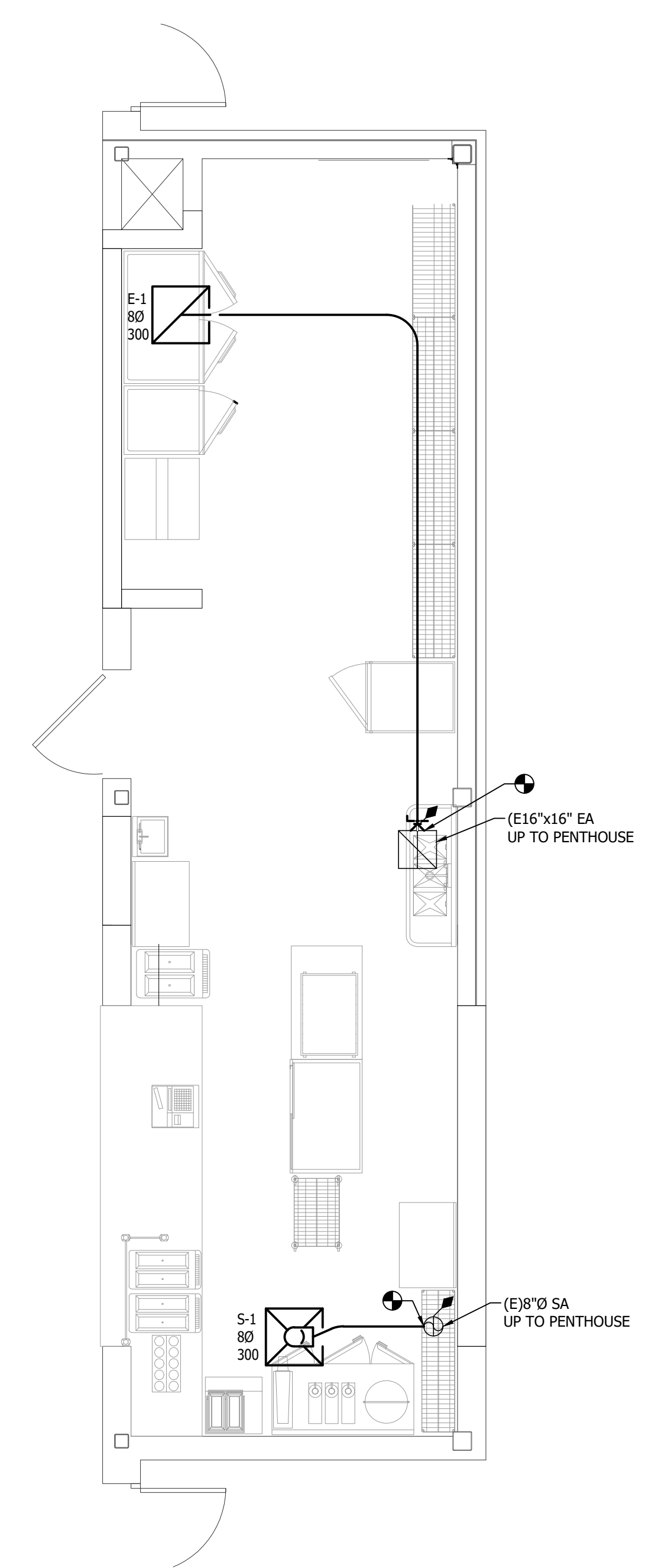
SHEET NO.

**A7.02**

JOB NO.  
242030



GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.



HVAC GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO IDENTIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
K	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
M	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.

1  
M1.00  
ENLARGED MECHANICAL DEMOLITION FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

2  
M1.00  
ENLARGED MECHANICAL NEW WORK FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"



LUMINAIRE SCHEDULE					
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	MANUFACTURER(S)	LAMP SOURCE	WATTS
	A	2'x4' EDGE LIT FLAT PANEL LED LUMINAIRE. A FULLY LUMINOUS APPEARANCE GLARE FREE. SUITABLE FOR RECESS MOUNTING IN LAY-IN TYPE GRID CEILING. ALUMINUM FRAME WITH SATIN WHITE LENS, 4000 LUMENS, ELECTRONIC DRIVER, 4000K, 0-10V DIMMING CAPABLE, UNIVERSAL VOLTAGE.	1. LITHONIA CPX-2X4 4000LMSOCR40KSWLMIN100WVOLT 2. COOPER LIGHTING 3. COLUMBIA LIGHTING	80CRI 4000 LUMENS	38.9
	B	12.5" DEDAL WALL MOUNTED DECORATIVE FIXTURE WITH FRONT WALL MOUNT GOOSENECK ARM. MATTE WHITE FINISH, 2700 LUMENS, 0-10V DIMMING CAPABLE, 4000K, UNIVERSAL VOLTAGE.	1. SPECTRUM LIGHTING WS1210GV-27-40K-D010X-CP106-MW-MW 2. COOPER LIGHTING 3. COLUMBIA LIGHTING	80CRI 2700 LUMENS	18
	X	EXIT LIGHT EMERGENCY LIGHT SHALL BE UNIVERSAL MOUNT, THERMOPLASTIC, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, RED LETTERS WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY CAPABLE OF PROVIDING 90 MINUTE FULL LIGHT OPERATION.	1. LITHONIA LGM SERIES 2. SURE-LITES CX SERIES	120-277V	2.3
	#B	SAME AS TYPE # EXCEPT THIS FIXTURE WILL BE PROVIDED WITH AN INTERNAL BATTERY PACK, WIRE SUCH IT OPERATES NORMALLY WITH A SWITCH AND AS AN EMERGENCY LIGHT UPON LOSS OF POWER.			

### LIGHTING SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHT FIXTURE - CEILING/GRID MOUNT
	LIGHT FIXTURE - INTERIOR WALL MOUNT LINEAR
	LIGHT FIXTURE - DOWNLIGHT WITH WALLWASH DIST.
	LIGHT FIXTURE - INTERIOR WALL SCNCE
	LIGHT FIXTURE - INTERIOR SURFACE MOUNT
	LIGHT FIXTURE - INTERIOR WALL MOUNTED
	LIGHT FIXTURE - INTERIOR PENDANT MOUNT
	LIGHT FIXTURE - INTERIOR PENDANT MOUNT CYLINDER
	TRACK AND TRACK MOUNTED LIGHT FIXTURES
	EXIT LIGHT - CEILING MOUNTED - ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EXIT LIGHT - WALL MOUNTED - ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EMERGENCY LIGHT FIXTURE - EMERGENCY BATTERY UNIT
	EMERGENCY LIGHT FIXTURE - BATTERY UNIT/EXIT SIGN
	LIGHT FIXTURE - EXTERIOR POLE MOUNT TYPE
	LIGHT FIXTURE - EXTERIOR WALL MOUNT TYPE
	LIGHT FIXTURE - EXTERIOR POST TOP TYPE
	LIGHT FIXTURE - EXTERIOR BOLLARD TYPE

NOTES:  
1. LIGHTING SYMBOLS AS INDICATED ON PLANS ARE NOT DRAWN TO SCALE UNLESS NOTED OTHERWISE.

### LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
	SWITCH SINGLE POLE
	OCCUPANCY SENSOR SWITCH
	VACANCY SENSOR SWITCH
	LOW VOLTAGE DIMMER SWITCH
	VACANCY DIMMER SENSOR SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED VACANCY SENSOR
	SWITCH THREE-WAY
	SINGLE POLE KEY SWITCH

### POWER SYMBOL LIST

SYMBOL	DESCRIPTION
	CONDUIT DOWN
	CONDUIT UP
	CONTACTOR
	DISCONNECT SWITCH - NON FUSED
	DISCONNECT SWITCH - FUSED
	DISCONNECT SWITCH - COMB. MOTOR STARTER
	ELECTRICAL PANEL - 208/240 VOLTS
	ELECTRICAL PANEL - 480 VOLTS
	GROUNDING ROD
	GROUND
	GROUNDING BAR
	JUNCTION BOX
	JUNCTION BOX WITH HARDWIRED CONNECTION
	METER
	MOTOR - SINGLE PHASE
	MOTOR - THREE PHASE
	MOTOR RATED SWITCH
	POWER RECEPTACLE - SIMPLEX TYPE
	POWER RECEPTACLE - DUPLEX TYPE
	POWER RECEPTACLE - DUPLEX 6" ABOVE COUNTER
	POWER RECEPTACLE - USB/DUPLEX COMBO. DEVICE
	POWER RECEPTACLE - QUADRUPLEX TYPE
	POWER RECEPTACLE - RECESSED FLOOR TYPE
	POWER RECEPTACLE - SPECIALTY TYPE
	SURGE PROTECTION DEVICE
	TIME CLOCK
	TRANSFORMER (REFER TO SCHEDULES FOR INFO)
	VARIABLE SPEED DRIVE

NOTES:  
1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

### AUXILIARY SYST. SYMBOL LIST

SYMBOL	DESCRIPTION
	CAMERA
	CARD READER
	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER
	COMMUNICATIONS DEVICE - FLOOR
	COMMUNICATIONS DEVICE - WALL
	MAGNETIC DOOR HOLDER
	PUSH BUTTON
	SPEAKER
	WALL CLOCK - SINGLE FACE
	WALL CLOCK - DOUBLE FACE
	WALL CLOCK AND SPEAKER UNIT

NOTES:  
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.  
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

### FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
	DETECTION DEVICE
	DETECTION DEVICE - DUCT MOUNTED
	DETECTION DEVICE - FLOW SWITCH
	DETECTION DEVICE - TAMPER SWITCH
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FIRE DEPARTMENT COMMUNICATION OUTLET
	MANUAL DEVICE - PULL STATION
	NOTIFICATION DEVICE - WALL MOUNTED
	NOTIFICATION DEVICE - CEILING MOUNTED

NOTES:  
1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

### ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
C	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWG	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
G/GRD	GROUND
GFG/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
OF/OI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
PH. OR #	PHASE
P	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHLORIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
SPEC/SPECS	SPECIFICATIONS
TBB	TELEPHONE BACKBOARD
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

### DRAWING INDEX

SHT NO	DESCRIPTION
E0.00T	ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE
E1.00T	ELECTRICAL COMPOSITE PLAN
EP4.01T	ENLARGED ELECTRICAL POWER DEMOLITION & NEW WORK FLOOR PLANS
EL4.01T	ENLARGED ELECTRICAL LIGHTING DEMOLITION & NEW WORK FLOOR PLANS
E6.00T	ELECTRICAL PANEL SCHEDULES & DETAILS
E7.00T	ELECTRICAL ONE-LINE DIAGRAMS

### DRAWING NOTATION

SYMBOL	DESCRIPTION
LA	LIGHTING FIXTURE TAG
	CONSTRUCTION KEY NOTE NUMBER 1
	DEMOLITION KEY NOTE NUMBER 1
	FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET)
FF-1	EQUIPMENT DESIGNATION (I.E. EXHAUST FAN NUMBER 1)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	NEW OR MODIFIED UNDERGROUND WIRING
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	SECTION NUMBER 4
	SECTION NO. 6
	SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)
	LIGHTING CONTROL TAG
	SCENE SCHEDULE ID 'A'
	DAYLIGHTING CONTROL ZONE '1' (MAY NOT APPEAR ON EVERY TAG)

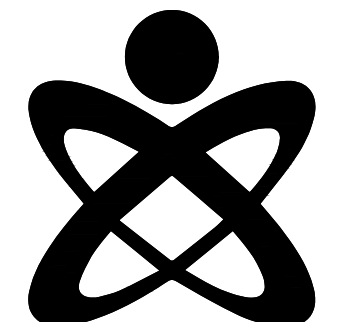
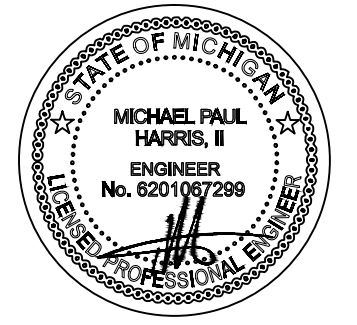
### APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2015	MICHIGAN BUILDING CODE
2015	MICHIGAN ENERGY CODE
2023	MICHIGAN ELECTRICAL CODE RULES, PART 8
2023	NATIONAL ELECTRICAL CODE (NFPA 70)
2013	NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 20
2013	NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 72
2012	LIFE SAFETY CODE, NFPA 101
2013	STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS, NFPA 110
2009	ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES



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UNIFIED BUILDING SYSTEMS ENGINEERING  
89 S. GRATIOT AVE.  
MT. CLEMENS, MI 48043  
UBS PROJECT 007.25.04 - 1

WARREN WOODS PUBLIC SCHOOL DISTRICT  
TOWER HS - TITAN EXPRESS SERVERY  
HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT

ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE

PRELIMINARY   
DESIGN DEVELOPMENT   
CONSTRUCTION   
FINAL RECORD

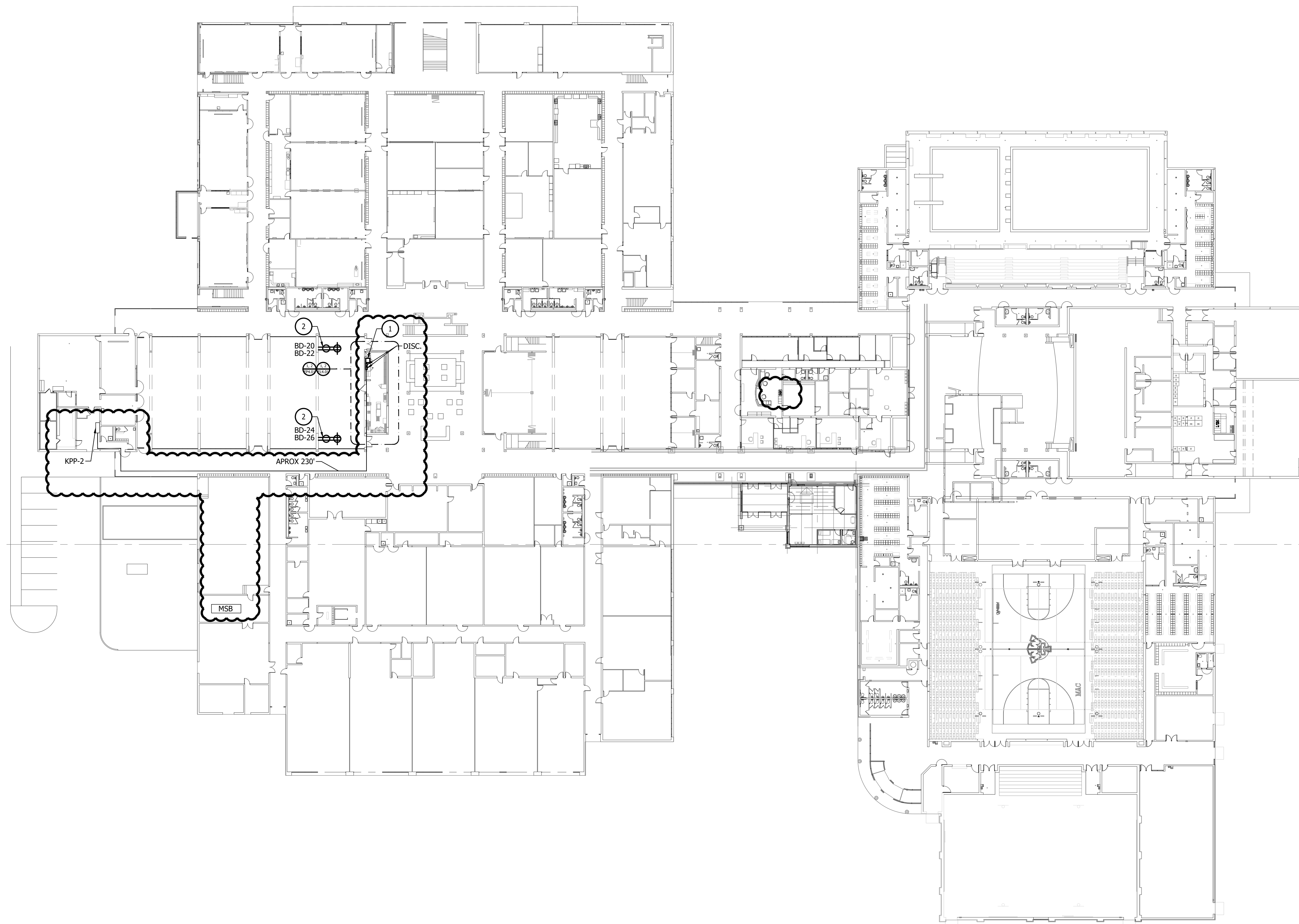
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CHECKED BY TJO

REVISIONS  
R1S 03/11/2025  
ADDENDUM No. 1 03/21/2025

DATE: MARCH 11, 2025  
SHEET NO.

E0.00T

JOB NO. 242030



**ELECTRICAL COMPOSITE PLAN**  
SCALE: 1/32" = 1'-0"

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G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.

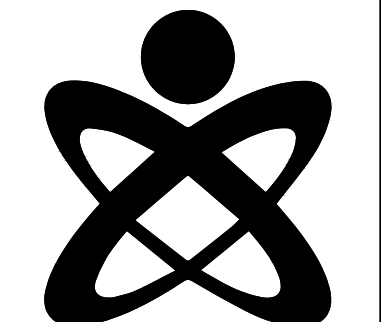
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NEW WORK KEYED NOTES	
1	NEW TRANSFORMER ABOVE KITCHEN IN STORAGE ROOM. REFER TO ONE LINE DIAGRAM FOR SIZING.
2	PROVIDE NEW 2000I RACKWAY FOR VENDING MACHINES. VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. CIRCUIT AS SHOWN TO SPARE BREAKER MADE AVAILABLE IN DEMOLITION. REFER TO DETAIL #5 ON E5.00



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ELECTRICAL COMPOSITE  
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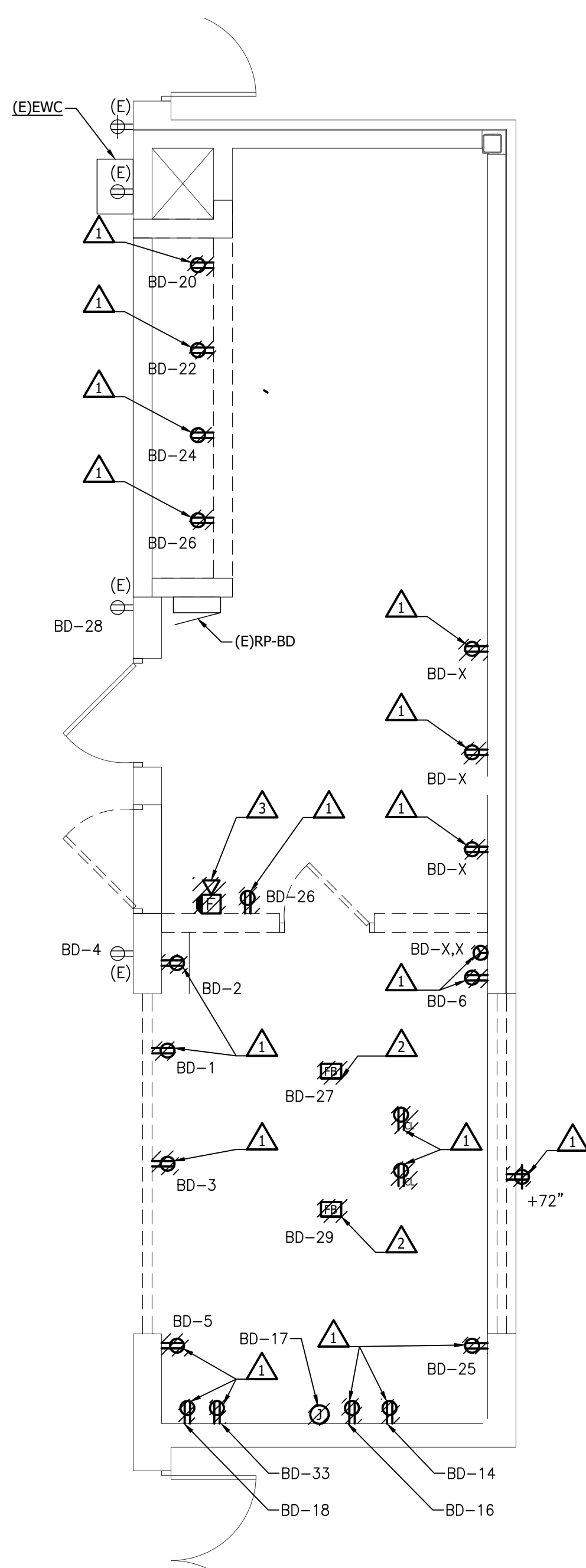
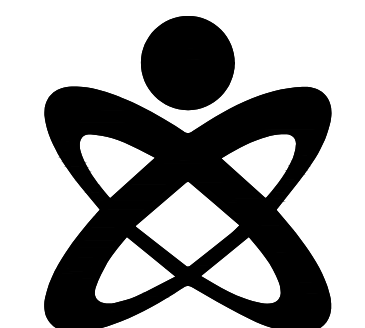
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CHECKED BY: TJO

REVISIONS  
REVISION NO. 03/11/2025  
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DATE: MARCH 11, 2025  
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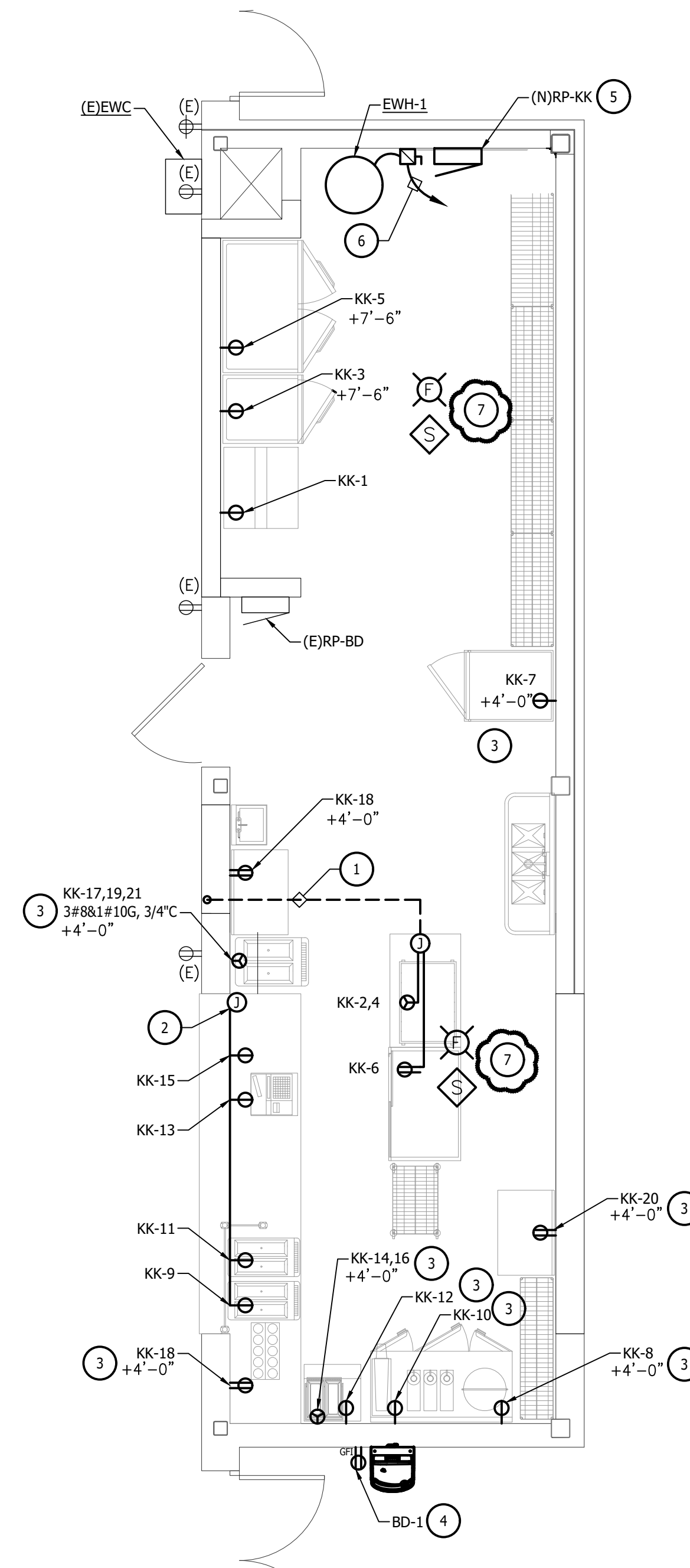
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JOB NO. 242030



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DEMOLITION KEYED NOTES	
1	DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES. REMOVE COMPLETE CONDUIT AND WIRING BACK TO SOURCE. RETAIN BREAKERS AS SPARES, UPDATE PANEL SCHEDULES.
2	FLOORBOX TO BE REMOVED COMPLETE. TAKE CONDUIT AND WIRING BACK TO SOURCE.
3	FIRE ALARM DEVICES TO BE REMOVED COMPLETE. REFER TO NEW WORK PLANS FOR NEW DEVICE.

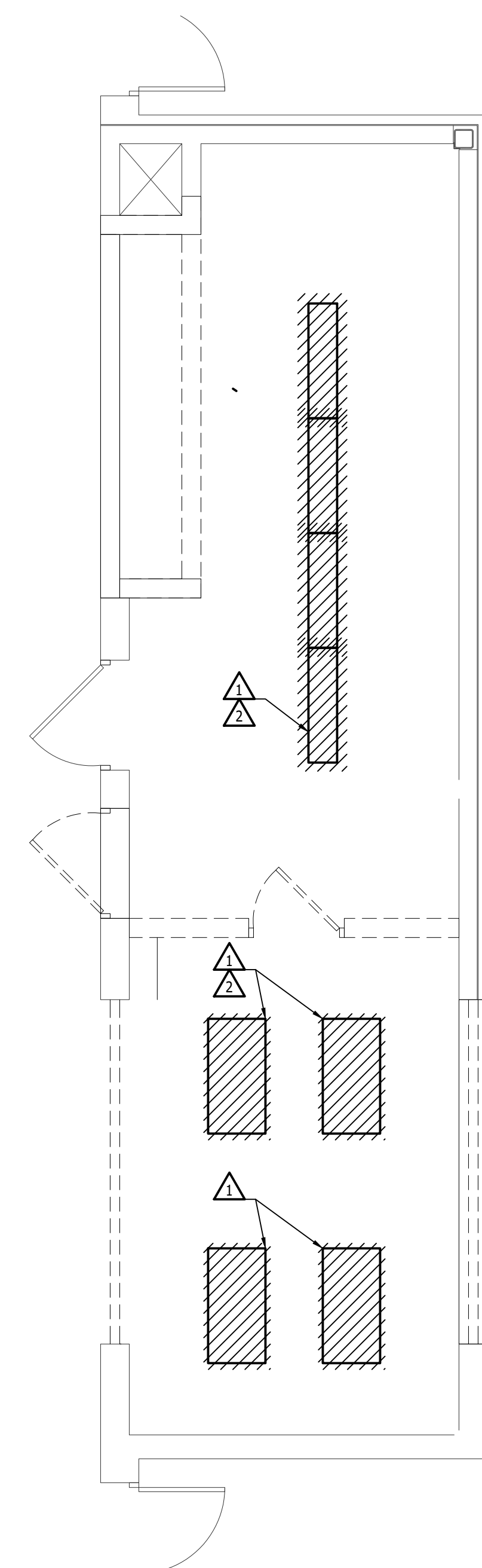
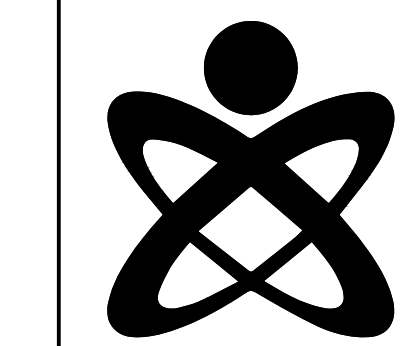
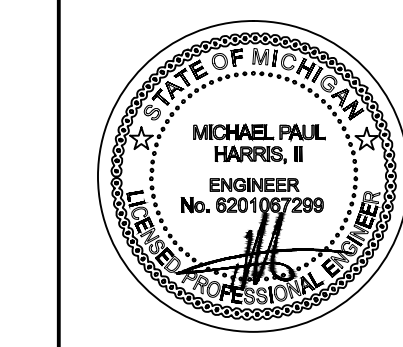


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J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.
K	NEW POWER ON EXISTING TO REMAIN WALLS SHALL BE RAN IN LEGRNAD WIREMOLD V2000 OR SIMILAR. NEW POWER AND DATA ON EXISTING TO REMAIN WALLS SHALL BE RAN IN LEGRNAD WIREMOLD V4000 OR SIMILAR.
L	ALL RECEPTACLES 150V TO GROUND OR LESS THAT ARE SINGLE PHASE 50 AMPS OR LESS, AND THREE PHASE 100A OR LESS THAT ARE INSTALLED IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOOR, INDOOR WET LOCATIONS, LOCKER ROOMS GARAGES, CRAWLSPACES, UNFINISHED UNOCCUPIED BASEMENTS, AND WITHIN 6 FEET OF THE TOP INSIDE EDGE OF SINK BOWLS SHALL BE GFCI PROTECTED. GFCI PROTECTION SHALL BE READILY ACCESSIBLE.

NEW WORK KEYED NOTES	
1	PROVIDE 1" CONDUIT RUNNING DOWN TO THE FLOOR AND OUT TO NEW WORKTABLE FLOOR RECEPTACLES. REFER TO DETAIL 4 ON E6.00
2	PROVIDE 3/4" CONDUIT RUNNING DOWN TO SERVICING COUNTER AND OUT TO RECEPTACLE MOUNTED INSIDE OF COUNTER.
3	ROUTE CONDUIT IN EXISTING BLOCK WALL DOWN TO DEVICE. CONTRACTOR TO NOTCH EXISTING BLOCK WALL AS REQUIRED FOR ARCHITECTURAL TILE COVERING
4	RUN NEW WIRE AND CONDUIT FOR NEW DRINKING FOUNTAIN GFCI RECEPTACLE. RECEPTACLE SHALL BE READILY ACCESSIBLE. CIRCUIT AS SHOWN TO SHARED BREAKER MADE AVAILABLE IN DEMOLITION.
5	NEW 42 CIRCUIT 208/120V PANEL RP-KK TO BE INSTALL TO SUPPORT KITCHEN EQUIPMENT. FED FROM NEW TRANSFORM IN STORAGE ABOVE KITCHEN. REFER TO ONE-LINE DIAGRAM FOR SIZING.
6	NEW WATER HEATER. PROVIDE 60A 3P 240V WP SWITCH, RUN 3#6&1#10G 3/4" TO RP-KK-22-24-26. REFER TO PANEL SCHEDULE.
7	NEW FIRE ALARM DEVICE. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED UPGRADES, RE-CERTIFICATION, AND SUBMITTALS TO PROPER AUTHORITIES. CURRENT FACP IS A NATIONAL TIME AND SIGNAL 902 SERIES.

1 ENLARGED ELECTRICAL POWER DEMOLITION FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

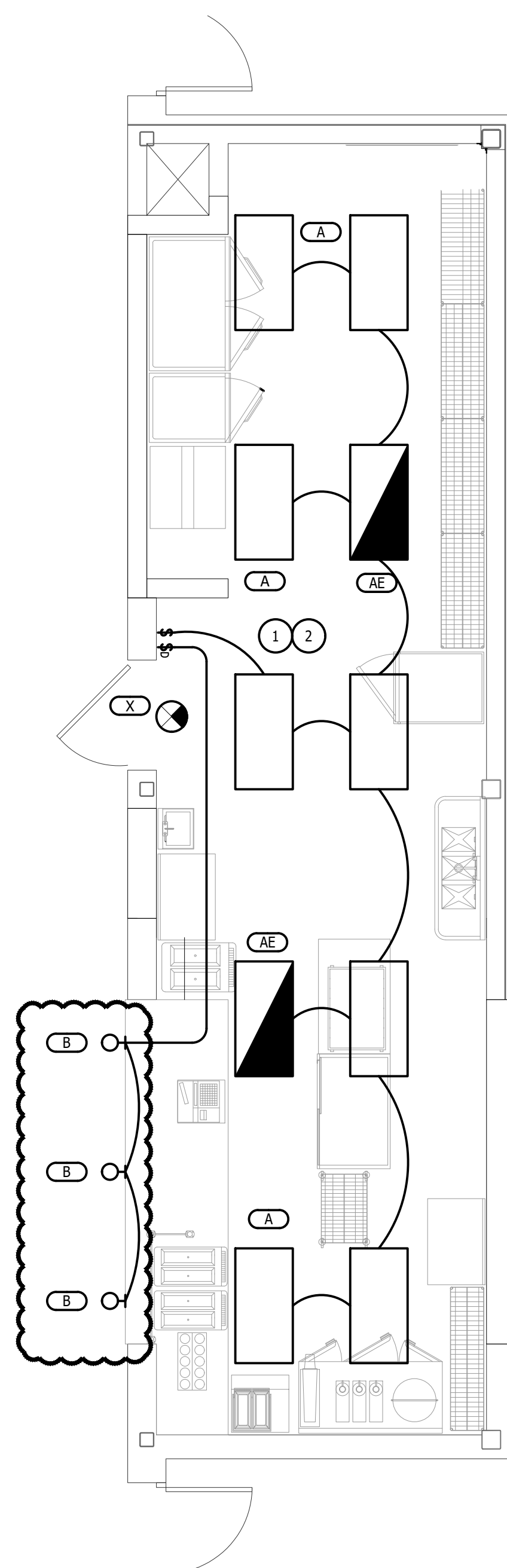
2 ENLARGED ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"



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DEMOLITION KEYED NOTES	
1	EXISTING LIGHT FIXTURES TO BE REMOVED COMPLETE. REMOVE CONDUIT AND WIRING BACK TO JUNCTION BOX FEEDING THIS AREA. PREPARE FOR CONNECTION TO NEW LIGHTING FROM JUNCTION BOX AS INDICATED ON NEW WORK PLANS.
2	EXISTING SWITCHES AND LOW VOLTAGE CONTROL SENSORS TO BE REMOVED COMPLETE. PATCH AND PAINT AS REQUIRED.

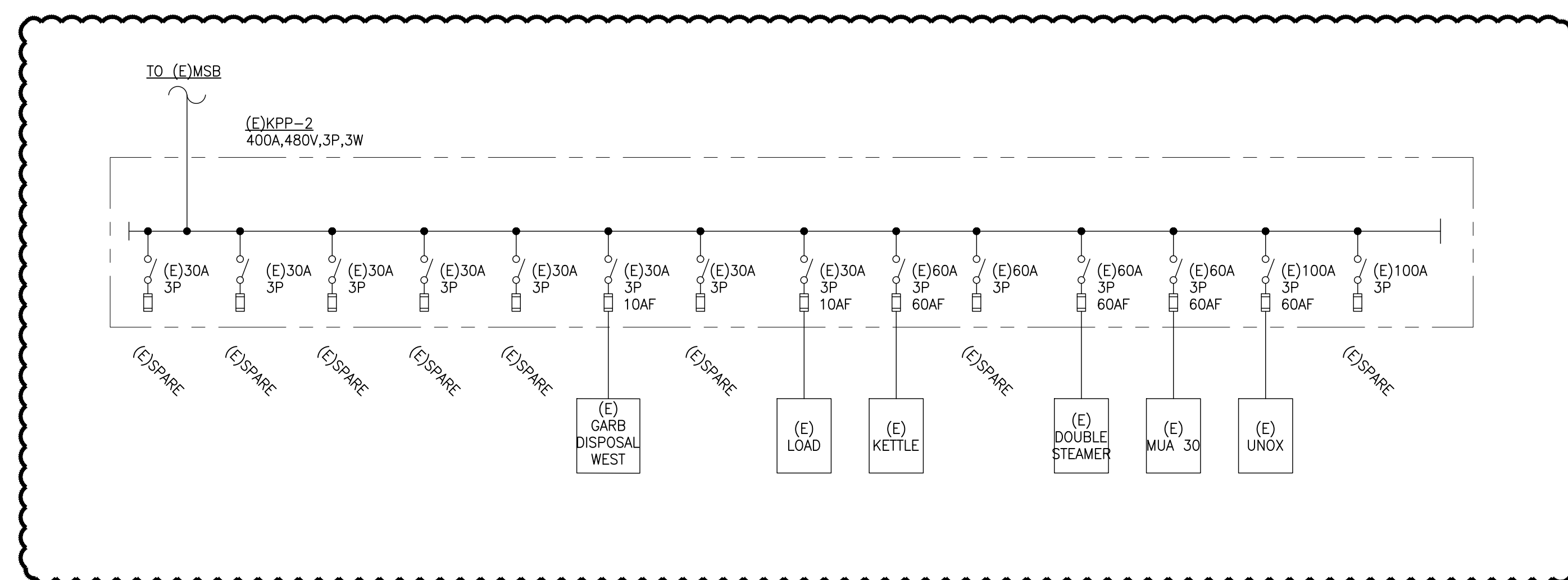
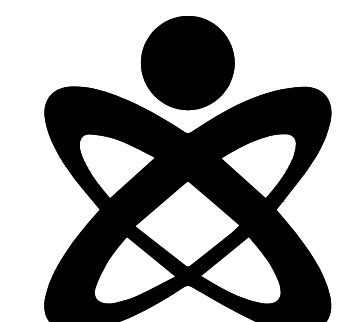
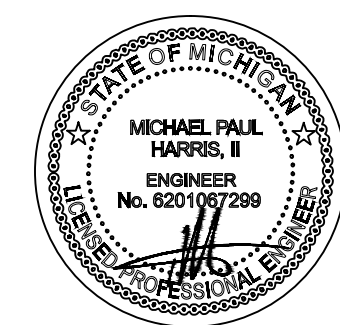
**1** ENLARGED ELECTRICAL LIGHTING DEMOLITION FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"



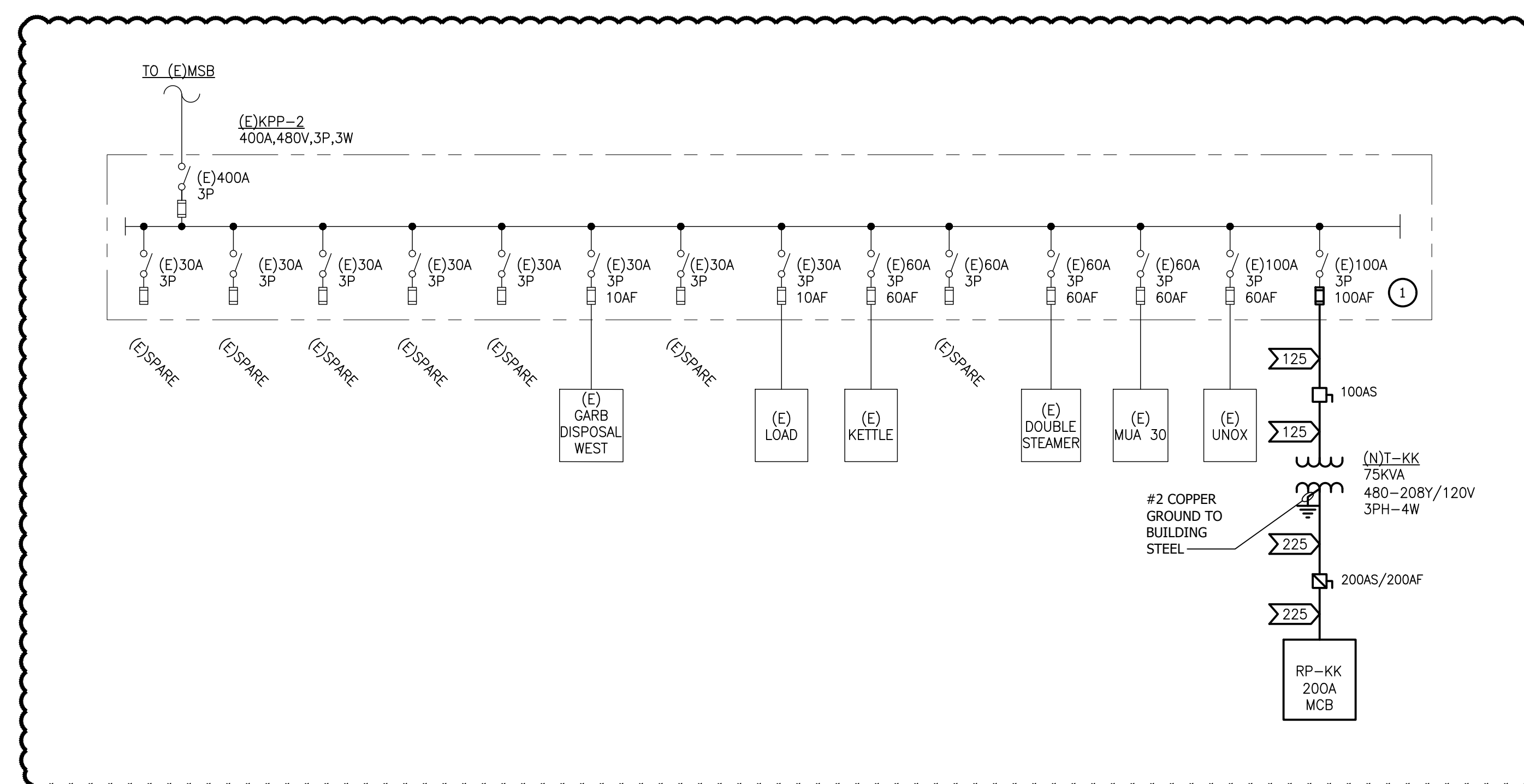
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J	ALL SWITCHES SHALL BE WHITE WITH BRUSHED SILVER COVERPLATE.

NEW WORK KEYED NOTES	
1	NEW LED FIXTURES IN THIS AREA TO REPLACE EXISTING. PROVIDE NEW CONTROL SENSORS AND LV SWITCHING AS SHOWN. CONNECT TO EXISTING CIRCUIT AVAILABLE AS A RESULT OF DEMOLITION IN THE AREA. ALL WIRING AND CONDUIT SHALL BE NEW. RE-USE EXISTING SWITCH LOCATIONS FOR NEW SWITCHES.
2	NEW FIXTURES WITH BUILT-IN BATTERY BACK UP. WIRE SUCH THAT FIXTURES TURN ON NORMAL WITH SWITCHES AND STAY ON AS EMERGENCY POWER UPON LOSS OF POWER. HATCHED FIXTURES SHALL BE WIRED AHEAD OF LOCAL SWITCH.

**2** ENLARGED ELECTRICAL LIGHTING NEW WORK FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"



PARTIAL ELECTRICAL ONE-LINE DIAGRAM - EXISTING



PARTIAL ELECTRICAL ONE-LINE DIAGRAM - NEW WORK

FEEDER (AMPS)	COND. SIZE	FEEDER AND CONDUIT SIZES	
		3 WIRE WITH GROUND	4 WIRE WITH GROUND
125	1/0	1 1/2" C, 3#1/0 & 1#6 GRD.	1 1/2" C, 4#1/0 & 1#6 GRD.
225	4/0	2-1/2" C, 3#4/0 & 1#2 GRD.	2-1/2" C, 4#4/0 & 1#2 GRD.

NEW WORK KEYED NOTES	
1	EXISTING SPARE 100A 3P SWITCH TO BE USED FOR NEW TRANSFORMER AND RP-KK PANEL FEED AS SHOWN, PROVIDE NEW FUSES. REFER TO EP4.10 FOR LOCATIONS

LOAD SUMMARY			400A 480V-3P-3W
ITEM SERVED	LOAD @480V 3P		REMARKS
	KVA	AMPS	
EXISTING KPP-2 (480V 3P 3W)	172.9	208.0	
ADDED LOAD RP-KK	13.6	16.4	
TOTAL ADDED LOAD	13.6	16.4	TOTAL AMPS CALCULATIONS IS BASED ON 3P LOAD
TOTAL KPP-2 LOAD	186.5	224.4	TOTAL AMPS CALCULATIONS IS BASED ON 3P LOAD

ELECTRICAL ONE-LINE DIAGRAMS

PRELIMINARY   
DESIGN DEVELOPMENT   
CONSTRUCTION   
FINAL RECORD

DRAWN BY PG  
CHECKED BY TJO

REVISIONS  
REVISION NO. 03/11/2025  
APPROVAL NO. 1 03/21/2025

DATE: MARCH 11, 2025  
SHEET NO.

**E7.00T**

JOB NO. 242030