

CONSTRUCTION DOCUMENT PACKAGE

CONSUMER SCIENCE CLASSROOM RENOVATION

HICKMAN COUNTY HIGH SCHOOL

DEFINITION OF CONSTRUCTION:

THE PROJECT DOES NOT MEET THE DEFINITION OF CONSTRUCTION AS DESCRIBED IN TCA RULE 0780-02-03-.01 DEFINITIONS. THE PROJECT DOES NOT INVOLVE THE CONSTRUCTION OF OR THE ADDITION TO AN EXISTING BUILDING, A CHANGE IN OCCUPANCY, AN ALTERATION IN THE EXIT ARRANGEMENT, ALTERATIONS TO FIRE RESISTIVE ASSEMBLIES OR THE TYPE OF CONSTRUCTION, INSTALLATION OF FIRE SUPPRESSION OR DETECTION SYSTEMS OR INSTALLATION OF FUEL FIRED EQUIPMENT.

PROJECT DESCRIPTION:

REMODEL OF AN EXISTING CONSUMER SCIENCES CLASSROOM IN HICKMAN COUNTY HIGH SCHOOL. PROJECT INCLUDES UPGRADED INTERIOR FINISHES INCLUDING FLOORS, LIGHT FIXTURES (AS ADD ALTERNATE), CABINETS, COUNTERTOPS AND ALL EXISTING DEMONSTRATION KITCHEN EQUIPMENT TO BE REPLACED WITH NEW APPLIANCES UTILIZING EXISTING MECHANICAL, PLUMBING AND ELECTRIC UTILITIES. NEW APPLIANCES WILL INCLUDE ELECTRIC STOVES / OVENS, MICROWAVES, DISH WASHERS, ICE MACHINE, ETC. EXISTING CLOTHES WASHER AND DRYER TO BE RELOCATED TO EXTERIOR WALL FOR VENTING.

PROJECT ADDRESS:

1645 BULLDOG BLVD.
CENTERVILLE, TENNESSEE 37033

DESIGN TEAM:

ARCHITECTURAL:
LYLE COOK MARTIN ARCHITECTS
310 FRANKLIN STREET
CLARKSVILLE, TENNESSEE 37040

OWNER:

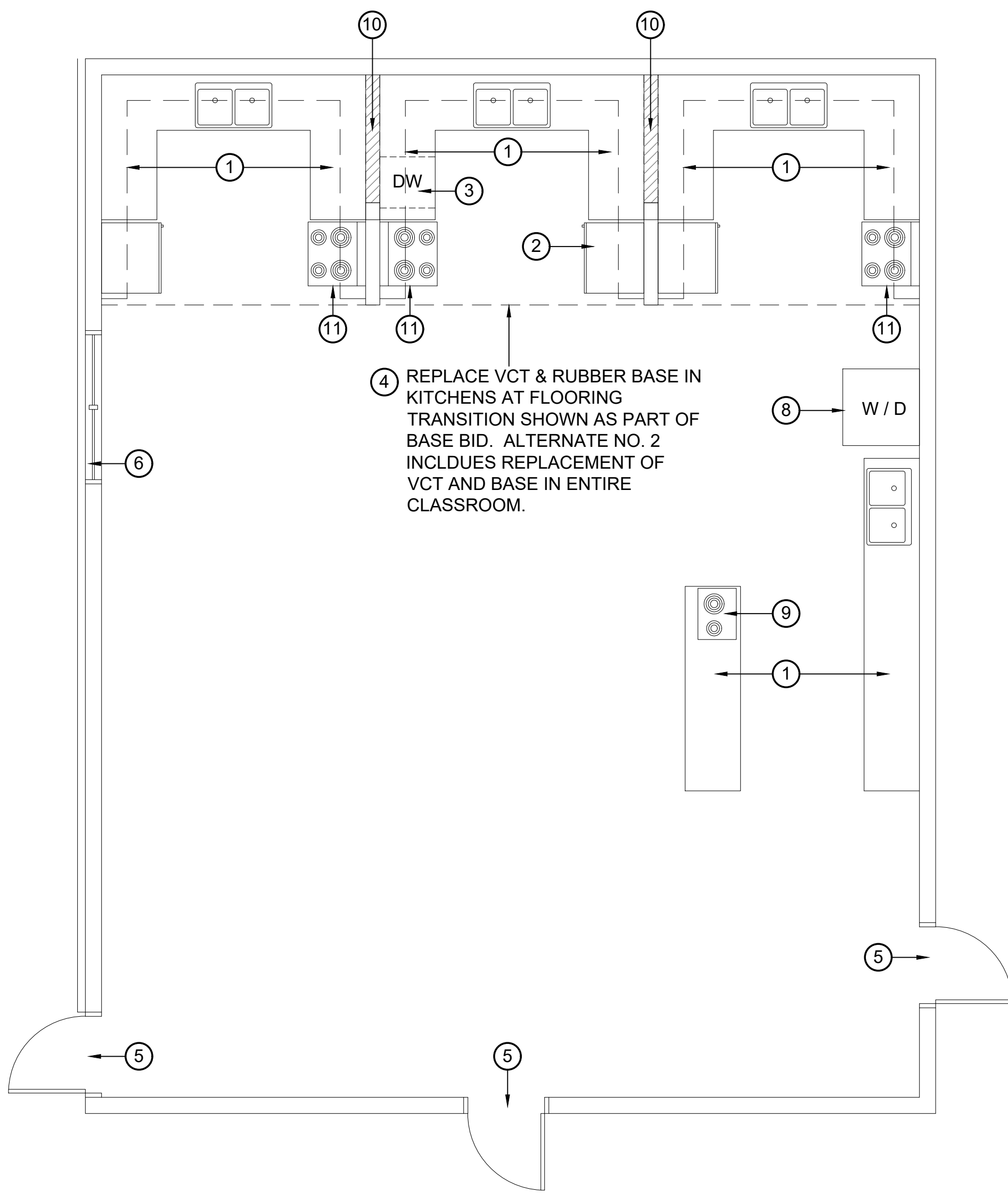
HICKMAN COUNTY SCHOOLS
CENTERVILLE, TENNESSEE

MECHANICAL, ELECTRICAL, PLUMBING:

ENTECH ENGINEERING
2948 SIDCO DR.
NASHVILLE, TENNESSEE 37204

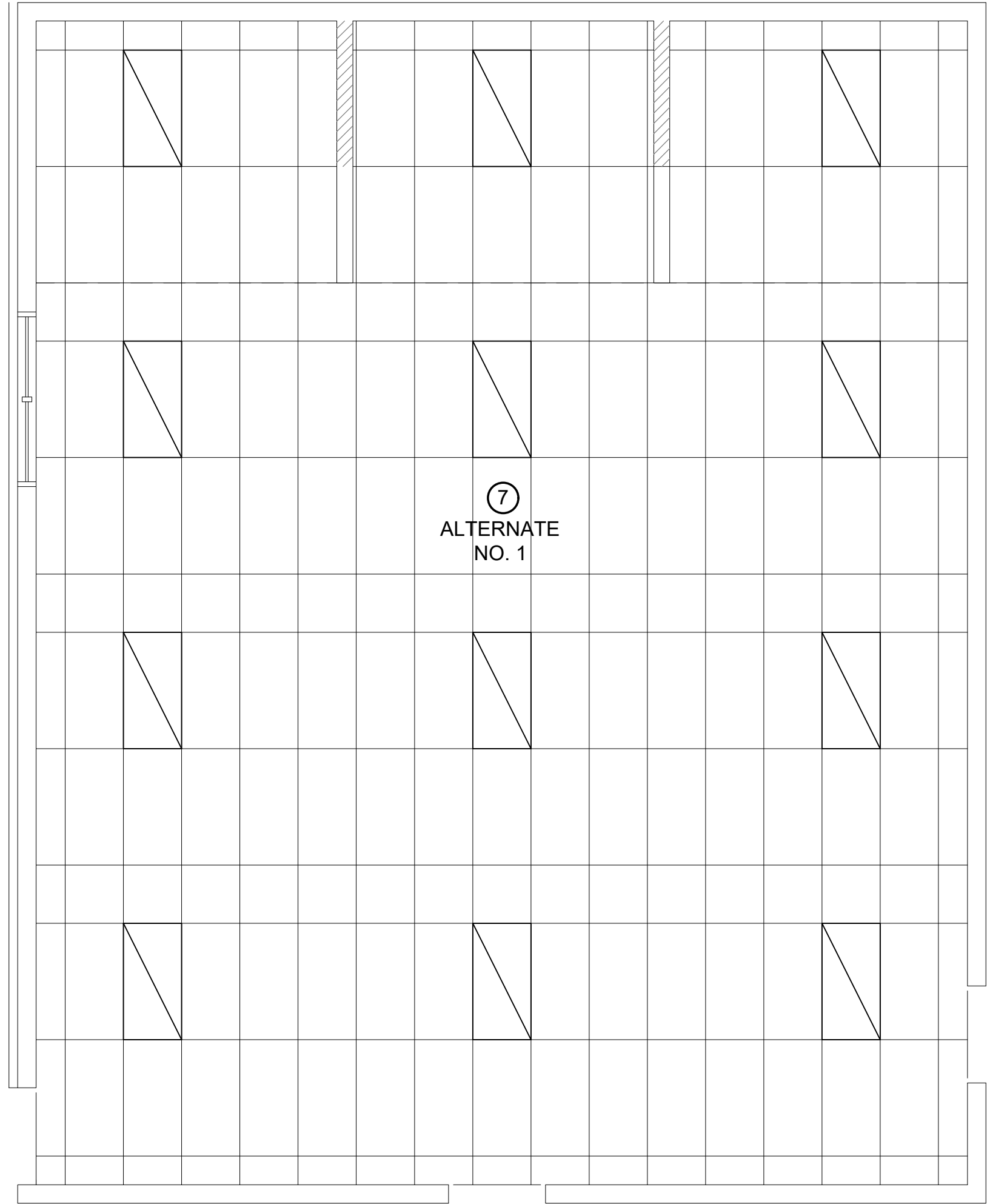
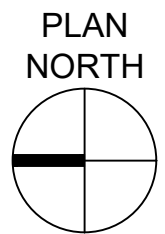
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1
A1.0
DEMOLITION PLAN

SCALE 1/4" = 1'-0"



2
A1.0
DEMOLITION CEILING PLAN

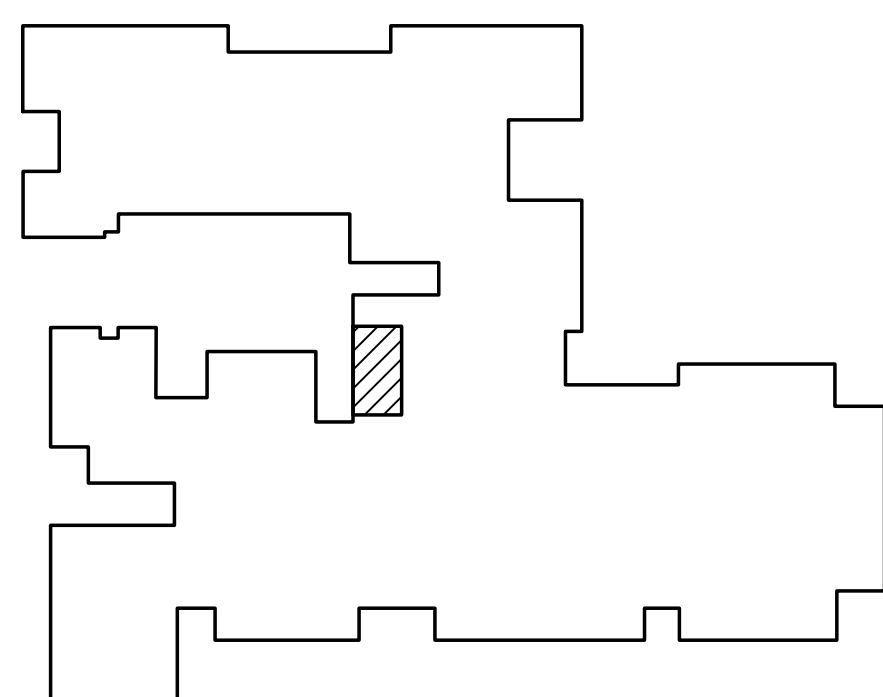
SCALE 1/4" = 1'-0"

DEMOLITION PLAN KEYNOTES

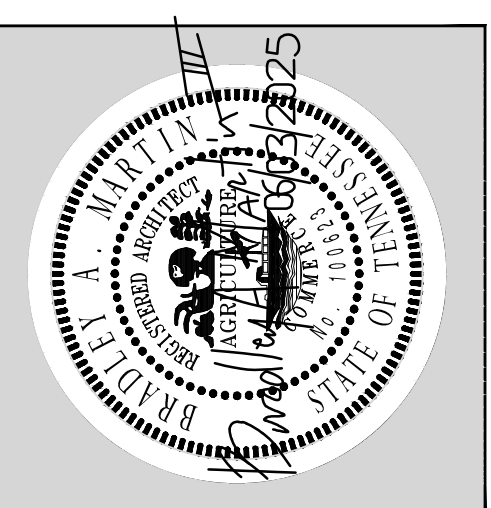
- REMOVE ALL EXISTING KITCHEN CABINETRY, KITCHEN APPLIANCES, AND ACCESSORIES UNLESS OTHERWISE NOTED. PATCH AND REPAIR ADJACENT SURFACES.
- SALVAGE EXISTING REFRIGERATOR FOR REINSTALLATION.
- SALVAGE EXISTING DISHWASHER FOR REINSTALLATION.
- REMOVE EXISTING VCT FLOORING AND VINYL BASE. PATCH AND PREPARE FOR NEW FLOORING & BASE. BASE BID INCLUDES REMOVAL AND REPLACEMENT OF VCT & BASE AT FLOORING TRANSITION AS NOTED ON DRAWINGS. AS WORK OF ALTERNATE NO. 2, REPLACE VCT FLOORING AND VINYL BASE IN ENTIRE CLASSROOM, TRANSITION FLOORING AT EXISTING CORRIDOR.
- EXISTING DOOR TO REMAIN - PROTECT DURING CONSTRUCTION ACTIVITIES.
- EXISTING WINDOW TO REMAIN - PROTECT DURING CONSTRUCTION ACTIVITIES.
- REMOVE EXISTING LIGHT FIXTURES & REPLACE IN RENOVATION PHASE AS WORK OF ALTERNATE NO. ONE. BASE BID INCLUDES NO MODIFICATIONS TO LIGHTS OR CEILINGS.
- RELOCATE EXISTING STACKABLE WASHER / DRYER TO EXTERIOR WALL.
- EXISTING ELECTRIC BURNER TO BE REMOVED AND UTILITIES TERMINATED.
- EXISTING PASS THROUGH COUNTERTOP. COORDINATE WITH ELEVATIONS AND FIELD CONDITIONS TO MODIFY OPENING AS NEEDED.
- EXISTING ELECTRIC RANGE TO BE REPLACED WITH NEW RESIDENTIAL RANGE CONNECTED TO EXISTING VENTILATION / EXHAUST SYSTEM.

LEGEND

- 14 KEYNOTE



KEY PLAN - N.T.S.



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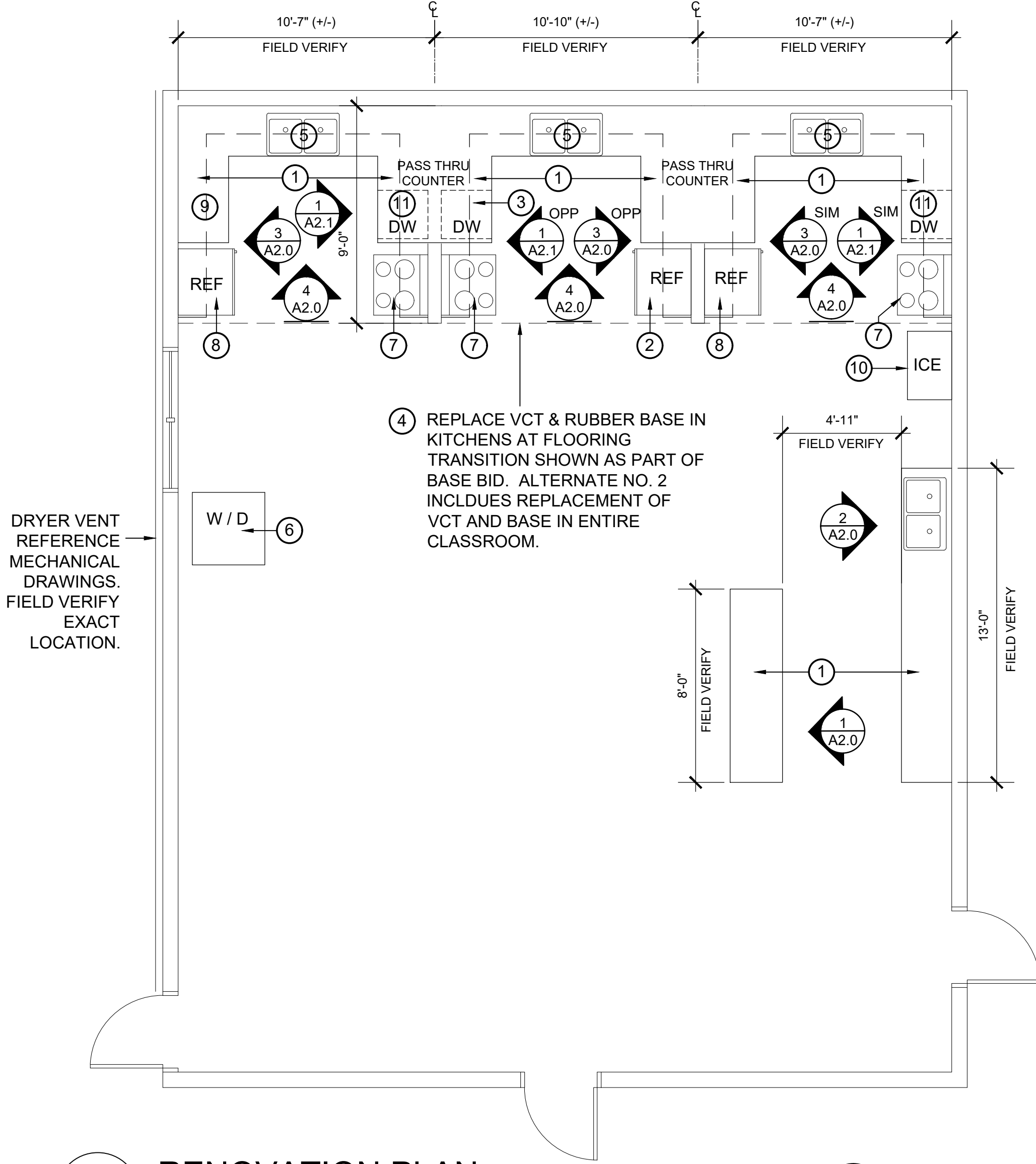
HICKMAN COUNTY HIGH
SCHOOL RENOVATION TO
CONSUMER SCIENCE
CLASSROOM

TITLE SHEET & DEMOLITION PLANS

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EDO
Revision Date	
Revision Date	
Revision Date	

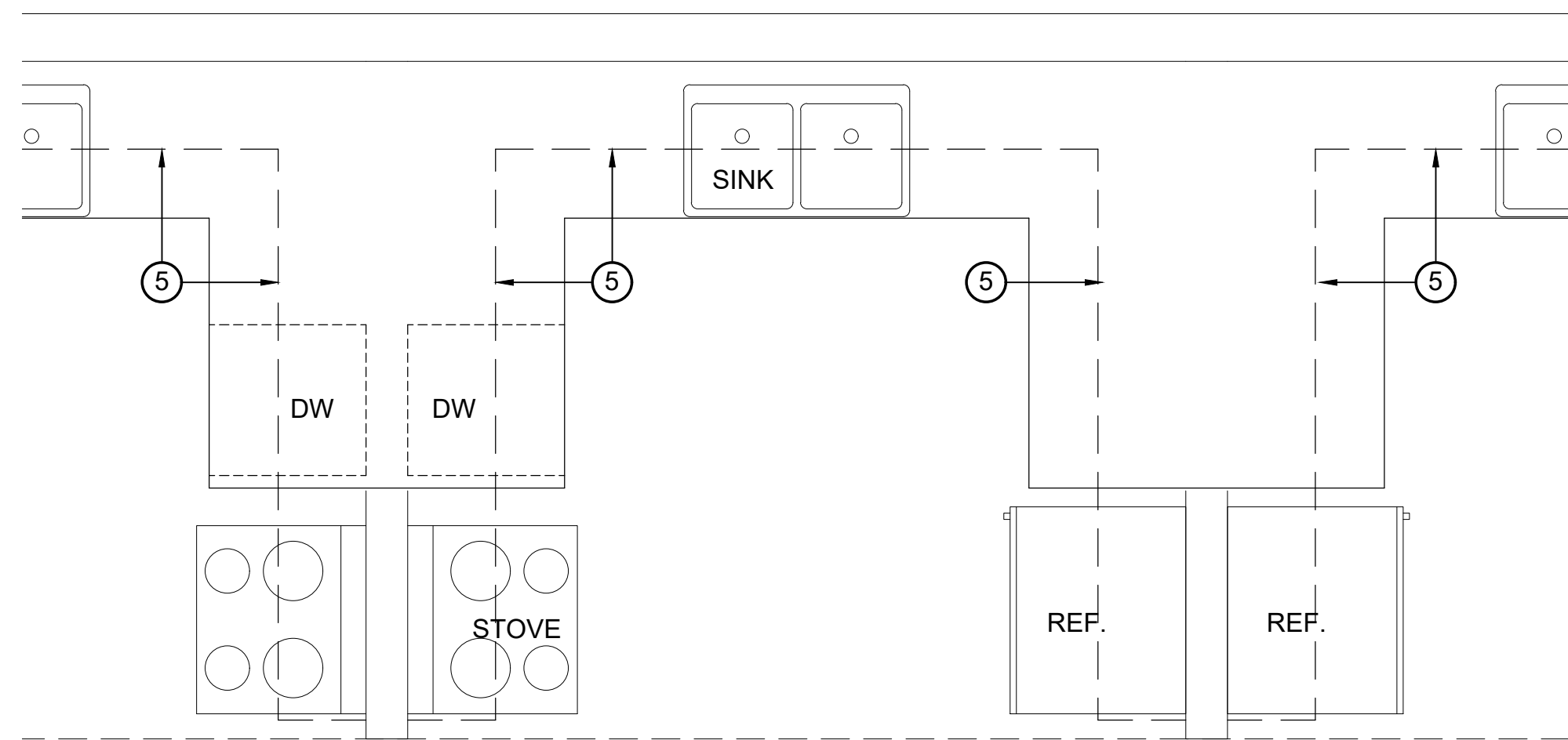
A1.0

SHEET NO.



1 RENOVATION PLAN

SCALE 1/4" = 1'-0"



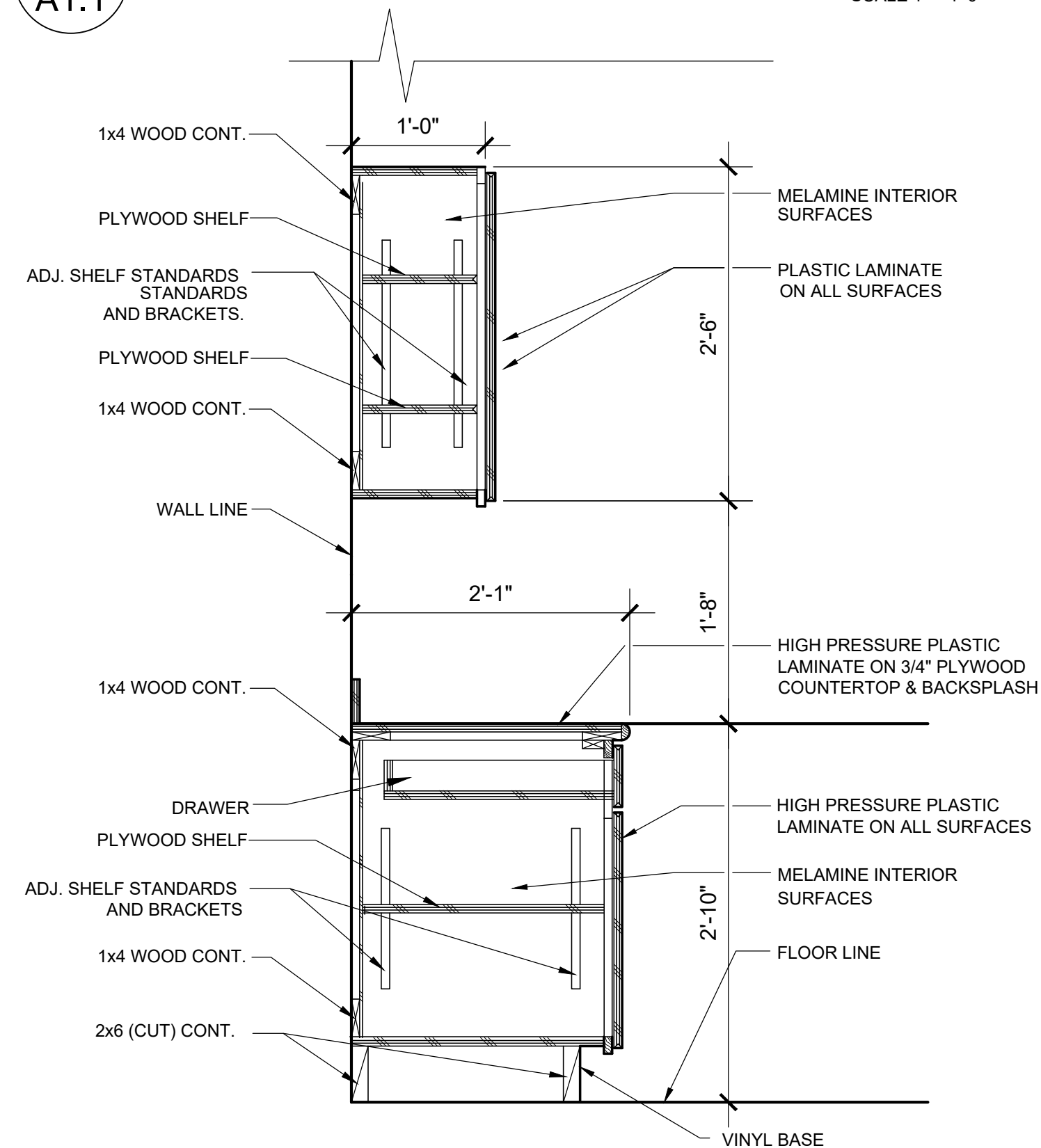
2 TYP. ENLARGED KITCHEN LAYOUT

SCALE 1/2" = 1'-0"



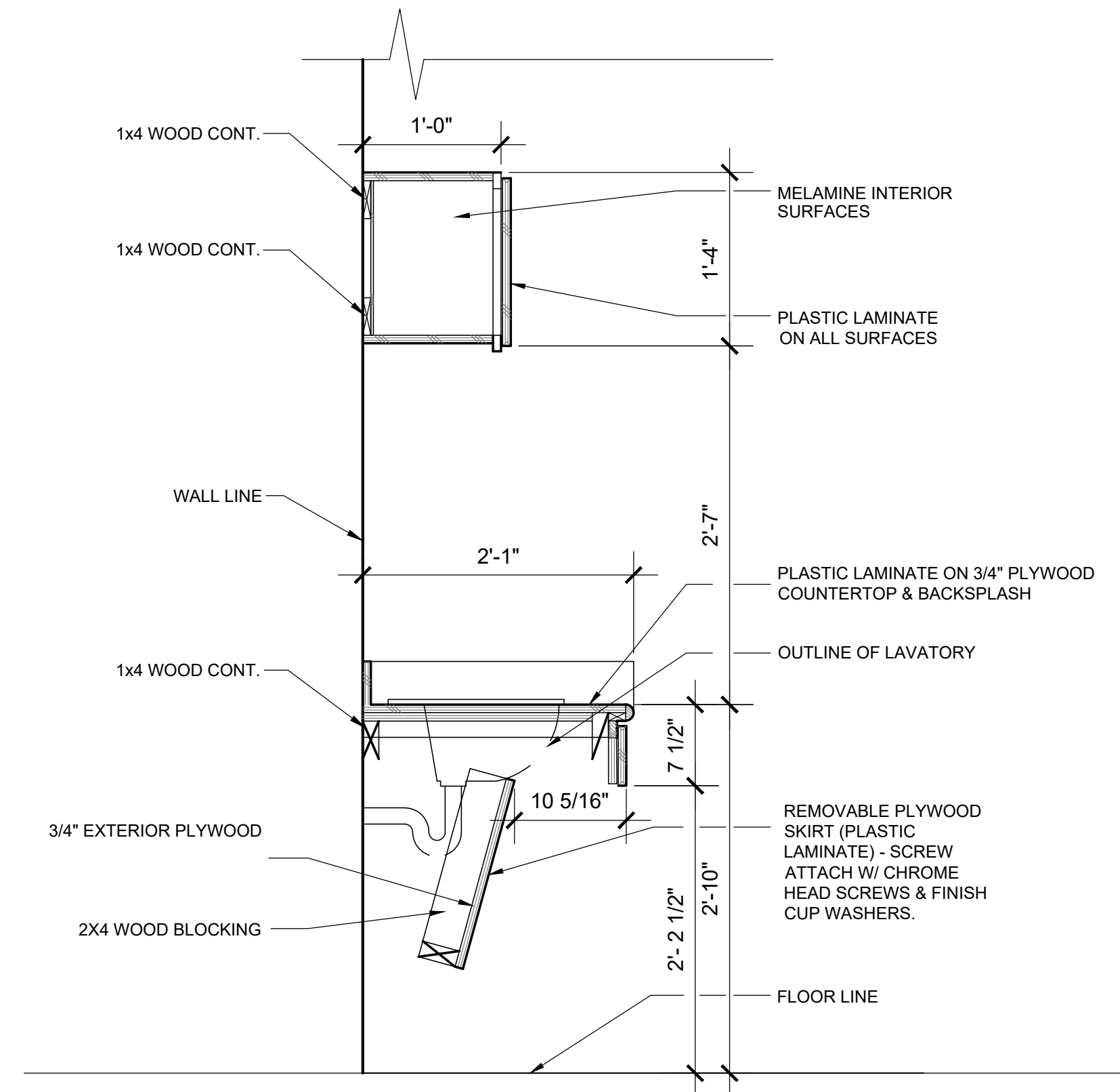
3 TYP. CASEWORK WITH PASS-THRU

SCALE 1" = 1'-0"



4 TYP. CASEWORK

SCALE 1" = 1'-0"



5 TYP. CASEWORK @ SINK

SCALE 1" = 1'-0"

RENOVATION PLAN KEYNOTES

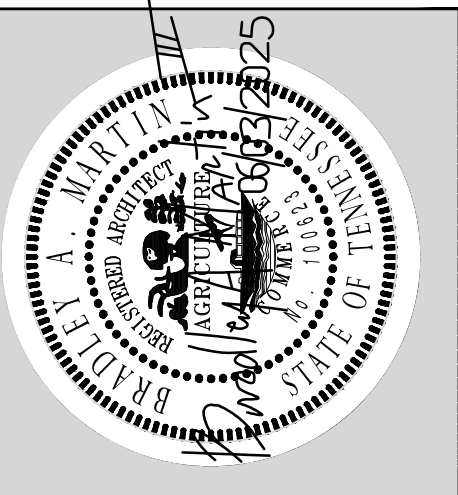
1. INSTALL NEW CABINETS AND COUNTERTOP, ETC. REFER TO ELEVATIONS.
2. REINSTALL SALVAGED REFRIGERATOR.
3. REINSTALL SALVAGED DISHWASHER.
4. INSTALL NEW FLOORING, RUBBER COVE BASE AND FLOORING TRANSITION STRIPS. BASE BID INCLUDES REMOVAL AND REPLACEMENT OF VCT & BASE AT FLOORING TRANSITION AS NOTED ON DRAWINGS. AS WORK OF ALTERNATE NO. 2, REPLACE VCT FLOORING AND VINYL BASE IN ENTIRE CLASSROOM, TRANSITION FLOORING AT EXISTING CORRIDOR.
5. INSTALL NEW UNDERCABINET LIGHTING AND LIGHTING AT (3) SINKS.
6. REINSTALL SALVAGED WASHER AND DRYER. REFERENCE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
7. INSTALL NEW ELECTRIC RANGE OVEN W/ MICROWAVE HOOD CONNECTED TO EXISTING VENTILATION / EXHAUST SYSTEM.
8. INSTALL NEW REFRIGERATOR.
9. COUNTERTOP MICROWAVE FOR ADA ACCESS.
10. INSTALL NEW ICE MACHINE WITH INTERNAL PUMP DRAIN SYSTEM - EQUAL TO SCOTSMAN CU50PA-1.
11. INSTALL NEW DISHWASHER.

LEGEND

- KEYNOTE
- WALL AREA WITH COUNTER HEIGHT PASSTHRU

GENERAL NOTES

1. PAINT ALL WALLS.
2. VERIFY ALL DIMENSIONS.
3. ALL EXISTING APPLIANCES TO BE REPLACED UNLESS NOTED OTHERWISE. EXISTING UTILITIES TO BE REUSED.



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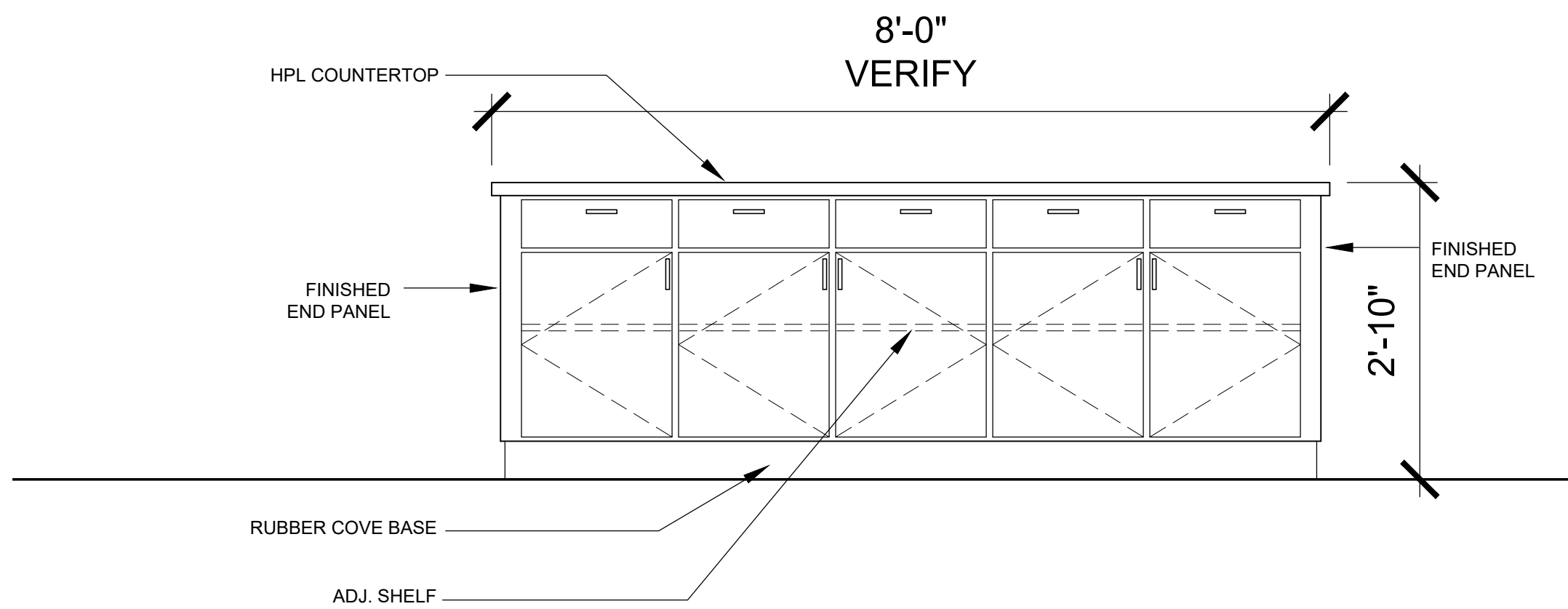
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SCHOOL RENOVATION TO
CONSUMER SCIENCE
CLASSROOM

FLOOR PLAN & CASEWORK DETAILS

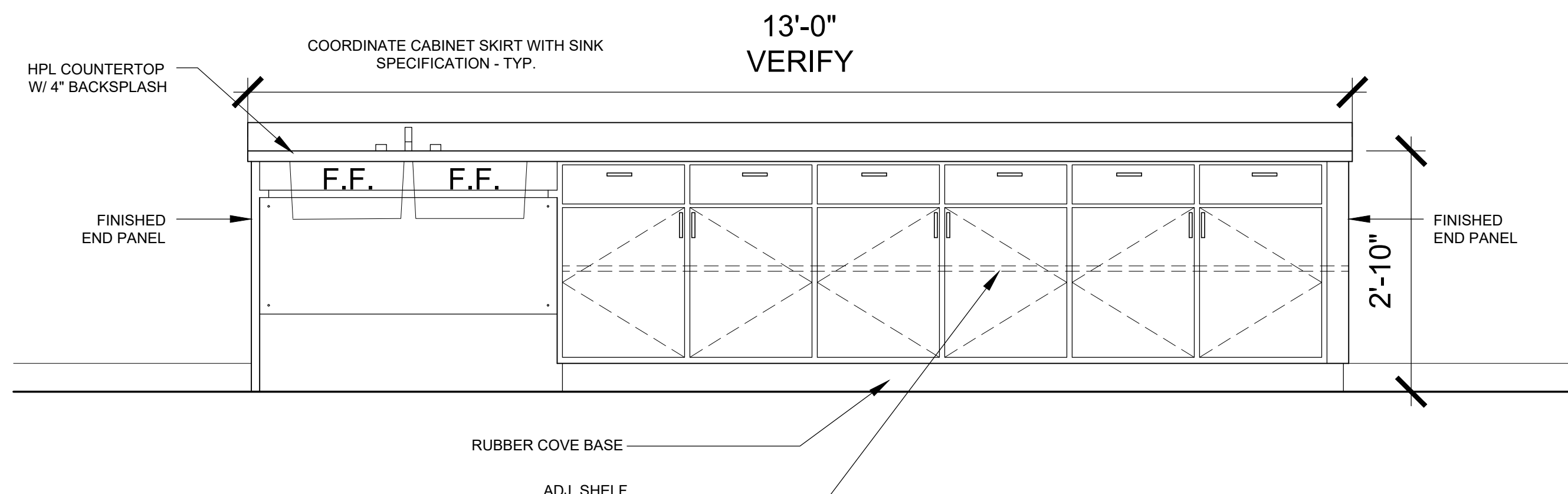
Project No.	1402.2
Issue Date	06/03/2025
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Revision Date	
Revision Date	

A1.1

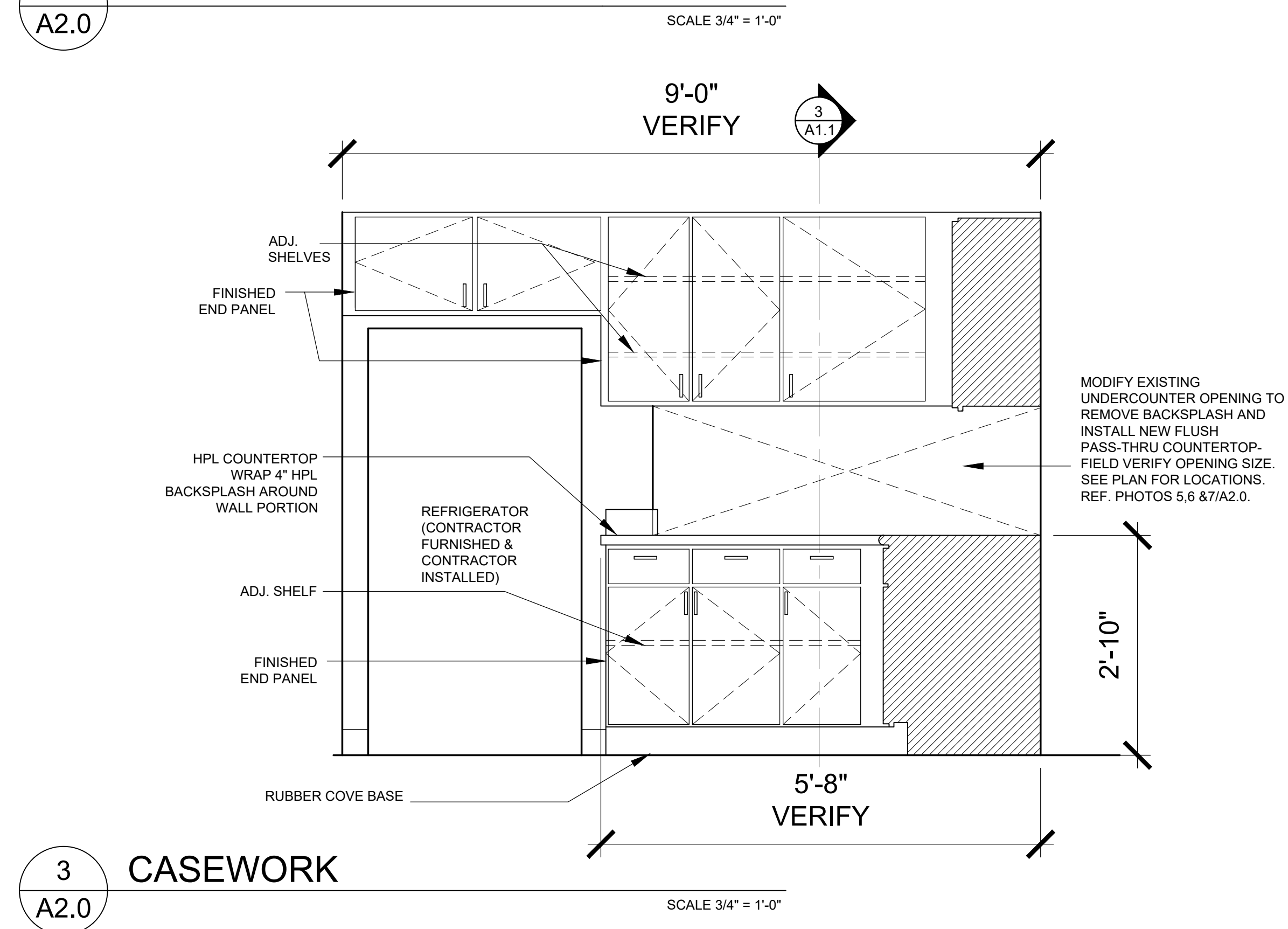
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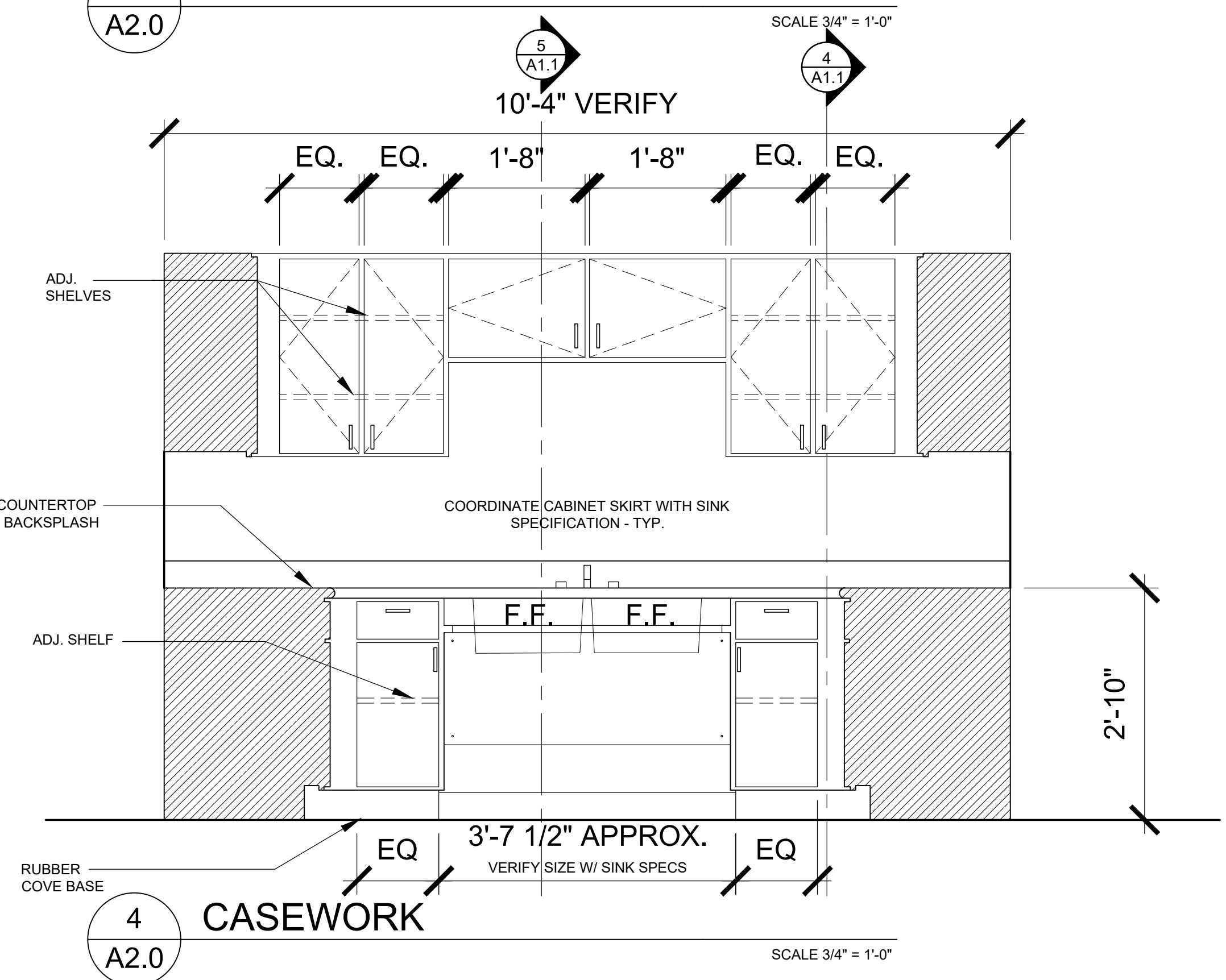
1 CASEWORK
A2.0



2 CASEWORK
A2.0



3 CASEWORK
A2.0



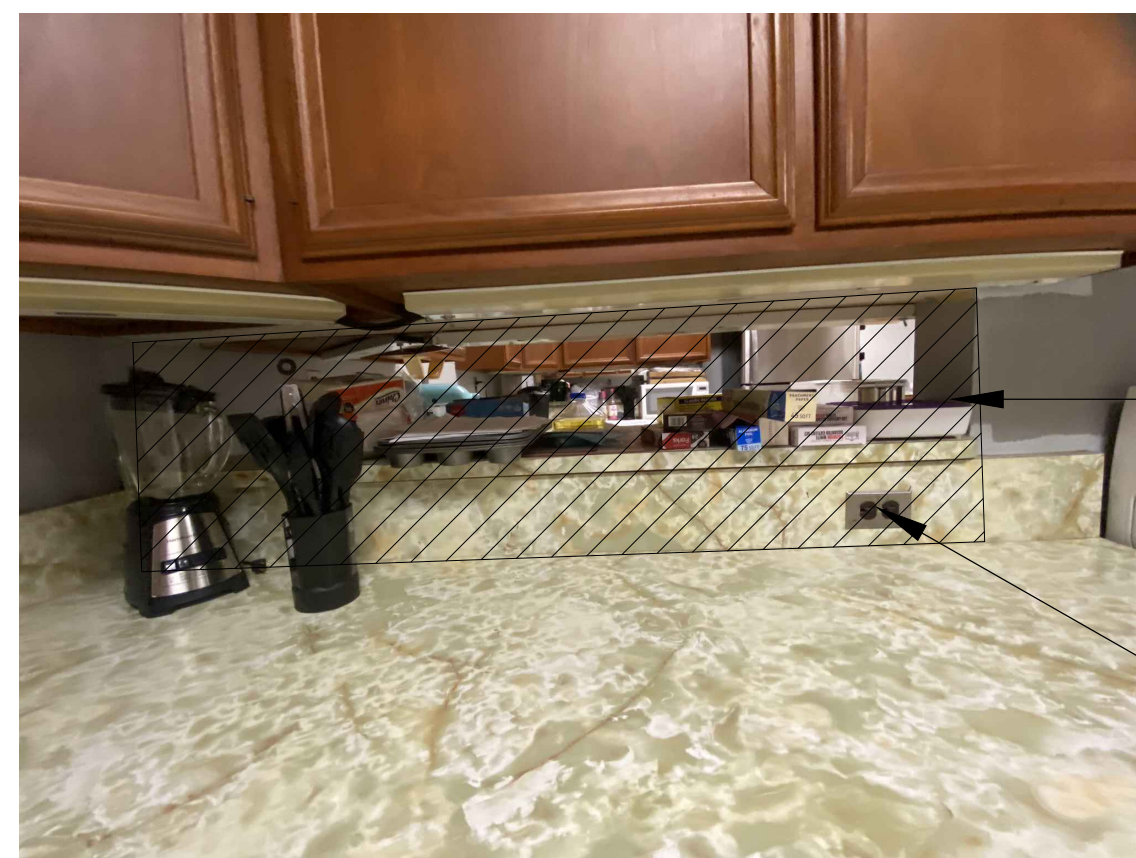
4 CASEWORK
A2.0



5 EXISTING WALL OPENING
A2.0



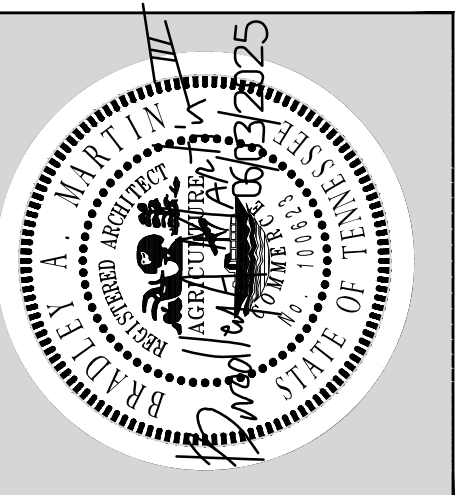
6 EXISTING WALL OPENING
A2.0



7 EXISTING WALL OPENING
A2.0

MODIFY EXISTING UNDERCOUNTER
OPENING TO REMOVE BACKSPLASH
AND INSTALL NEW FLUSH PASS-THRU
HPL COUNTERTOP.
PATCH/REPAIR/PAINT ALL ADJACENT
SURFACES. FIELD VERIFY OPENING
SIZE. TYPICAL AT PARTITION WALLS
BETWEEN KITCHENS.

TYPICAL NOTE AT PARTITION WALL
BACKSPLASH - REMOVE EXISTING
OUTLET AND RELOCATE TO END
WALL (QUADRAPLEX). REF.
ELECTRICAL DRAWINGS.

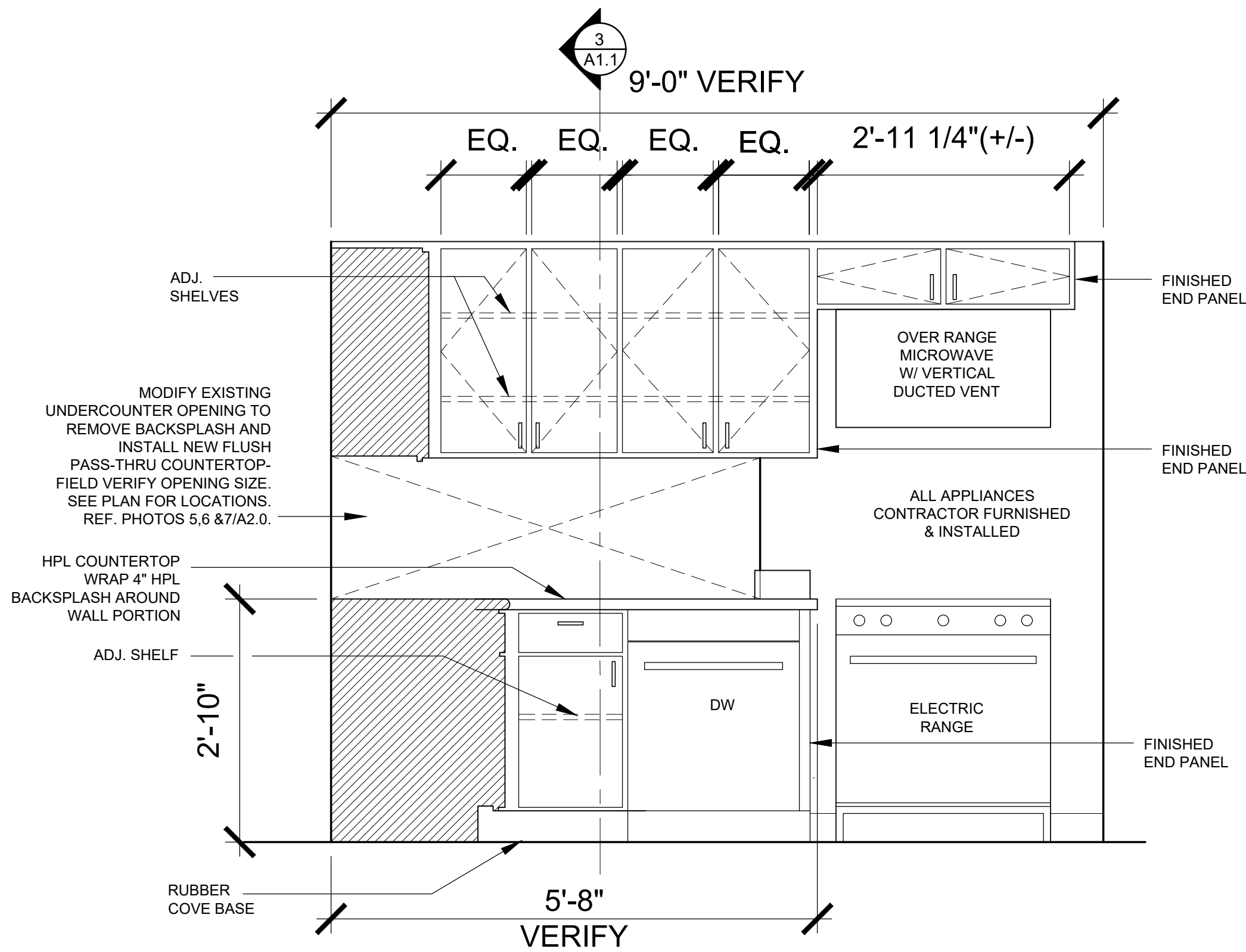


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**HICKMAN COUNTY HIGH
SCHOOL RENOVATION TO
CONSUMER SCIENCE
CLASSROOM**
CASEWORK ELEVATIONS & PHOTOS

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EDO
Revision Date	
Revision Date	
Revision Date	

A2.0
SHEET NO.



1
A2.1

CASEWORK

CU50 - 50lb Cube Ice Machine

Self-Contained Under Counter Cuber with Storage

Features

- Produces up to 64 lb. of gourmet ice in 24 hours and stores up to 26 lb. of ice.
- 15" cabinet width for placement in tight locations.
- Uniquely-shaped, crystal-clear, slow-melting, taste-free, odorless ice - won't dilute the flavor of drinks.
- Water-quality sensor detects hard water conditions and control system purges mineral laden water with every harvest cycle, which helps extend the time between cleanings.
- User-friendly control panel informs whether power is on, alerts a no-water condition, and a time to clean reminder.
- UL approved for outdoor applications.
- Available with built-in drain pump, for installation flexibility, minimizing installation costs.
- Designed for commercial applications.

24 Hour Volume Production

Air Cooled	
Air	Water
70°F/21°C	90°F/32°C
54/29 lb/kg	44/20 lb/kg

Gourmet Ice

Large, slow-melting ice form, ideal for mixed drinks.

Cube Dimensions: 1.5" x 1.5" x 1.5" (3.8 x 3.8 x 3.8 cm)

Certification

NSF, UL, NSF, NSF

Warranty

- 1 year parts and labor on all components.
- 5 years parts on the compressor.
- Warranty valid in North, South & Central America for commercial installations.
- Contact factory for warranty in other regions.
- Residential Applications: 1 year parts and labor.

CU50 - 50 lb Cube Ice Machine

Self-Contained Under Counter Cuber with Storage

Specifications

Model Number	Condenser Unit	Storage Capacity	Basic Electrical	Max. Fuse Size	Circuit Breaker	Min. Circuit Ampacity	Energy Consumption	Water Usage
CU50DA-1	Air	2612	115/50/1	15	2	Cond	16.44 kWh/100 lb (45.4 kg)	90°F/32°C (30°F/12.1°C)
CU50DA-3	Air	2612	115/50/1	15	2	Cond	16.44 kWh/100 lb (45.4 kg)	90°F/32°C (30°F/12.1°C)

All Models

Dimensions (W x D x H): 14.875" x 22" x 34.375" (37.8 x 55.9 x 87.3 cm)

Shipping Carton: 15" x 24" x 34"

Shipping Weight: CU50DA-1: 105lb / 48kg, CU50DA-3: 105lb / 48kg

BTUs per hour: 1,965

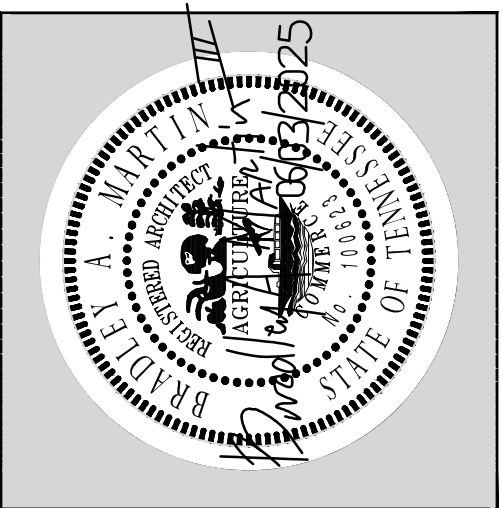
Refrigerant: R-134A

Operating Requirements*

	Minimum	Maximum
Air Temperatures	50°F (10°C)	100°F (38°C)
Water Temperatures	40°F (4.4°C)	100°F (38°C)
Water Pressures	20 PSIG (1.4 bar)	80 PSIG (5.5 bar)
Electrical Voltage	-5%	+10%

1
A2.3

ICE MACHINE SPECIFICATIONS



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HICKMAN COUNTY HIGH SCHOOL RENOVATION TO CONSUMER SCIENCE CLASSROOM

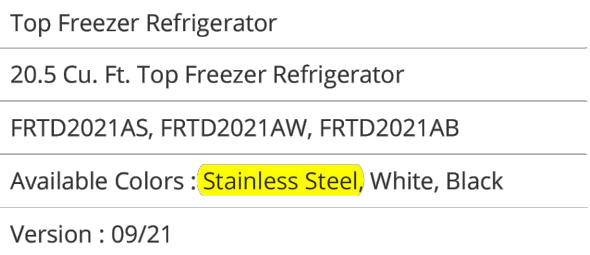
CASEWORK ELEVATIONS

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EDO
Revision Date	
Revision Date	
Revision Date	

A2.1

SHEET NO.

Frigo



Note: For planning purposes only. Always consult local and national electric, gas and plumbing codes.
Refer to Product Installation Guide for detailed installation instructions on the web at frigidaire.com / frigidaire.ca
Specifications subject to change. Accessories information available on the web at frigidaire.com / frigidaire.ca

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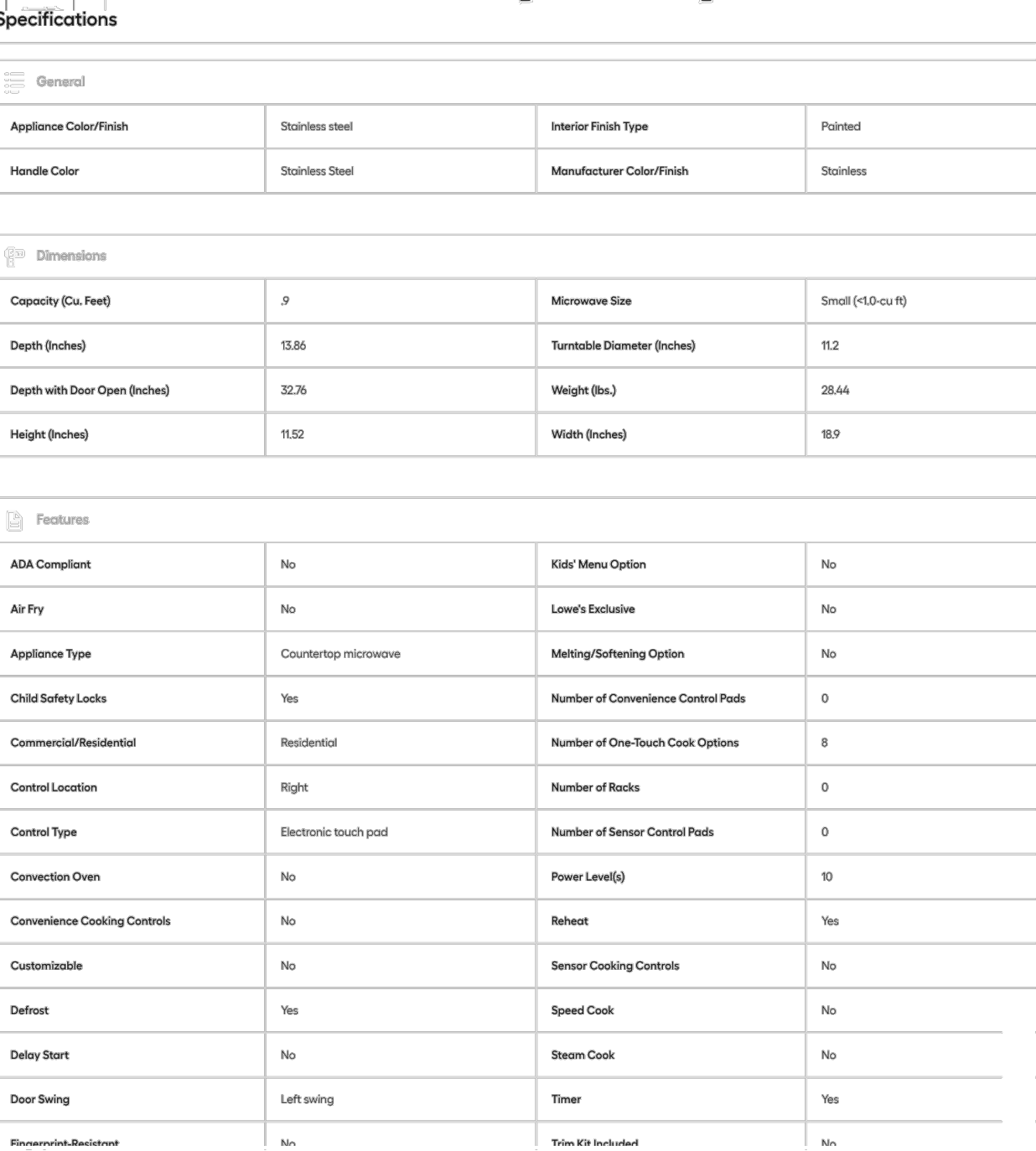
24" Built-In Dishwasher	Dishwasher
Available Products: FFCD2413UB, FFCD2413US, FFCD2413UW	Available Colors: Black, Stainless Steel, White
Version: 10/23	



Frigidaire

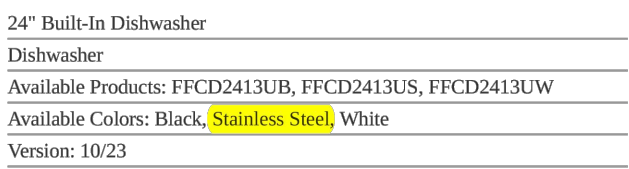
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3
A2.2

FRIGIDAIRE®



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gldigo (9-cu ft Small (Less than 15-cu ft) 1350-Watt Countertop Microwave (Stainless Steel)

n #000307 | Model #EMW959-C

[Go to Frigidaire](#)
☆☆☆☆☆

Hub Required	No	Voice Controlled	No
Interior Light(s) Type	Standard (non-descender)	Wattage	1350
Inverter Technology	No		

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APPLIANCE SPECIFICATIONS

A2.2

SHEET NO.

A2.2

FRIGIDAIRE

1.7 Cu. Ft. Over-The-Range Microwave
Over-The-Range Microwave
Available Products: FMOS1746BS, FMOS1746BB, FMOS1746BW
Available Colors: **Stainless Steel**
Version: 09/24



Product Specifications

Cooking Controls			Microwave Cooking		
Clock	Yes		Beverage	Yes	
Cooking Power	1000 Watts		Melt / Soften	Yes	
Defrost Time	Yes		Popcorn	Yes	
Defrost Weight	Yes		Potato	Yes	
Number of Power Levels	10		Reheat	Yes	
Ventilation System			Controls		
Exhaust Fan Speeds	2		Control Lock	Yes	
Maximum Air Flow Capacity	300 CFM		Additional Settings		
Minimum Air Flow Capacity	100 CFM		Child Lock	Yes	
Maximum Sones Rating	7 sone		Clock Display On / Off	Yes	
Minimum Sones Rating	2.5 sone		Clock Settings	Yes	
Grease Filter Included	Yes		Demo On / Off	Yes	
Grease Filter Quantity	2		Setting Weight Lb / Kg	Yes	
Grease Filter Dishwasher Safe	Yes		Surface Cooking Light	Yes	
Removable Grease Filter	Yes		Timer On / Off	Yes	
Charcoal Filter Included	Yes		Vent Fan	Yes	
Ductless Vent	Yes				
Microwave Control Features			Exterior		
+ 10 Seconds	Yes		Door Swing	Side-Swing Door	
+ 30 Seconds	Yes		Surface Light System		
Quick Start	Yes		Lighting Type	Incandescent	
Display			Electrical Specifications		
Control Location	Right		Amps @ 120 Volts	13.5 Amps	
Display Interface Color	White		Connected Load @ 120V	1.55 kW	
Display Type	Membrane		Voltage Rating	120 V	
			Watts @ 120 Volts	1560 Watts	
Internal Specifications			General Specifications		
Interior Color	White		Prop 65 Label	Yes	
Interior Light Quantity	1		Interior Light Type	Incandescent	
Interior Light Type	Incandescent		Warranty - Labor	1 Year	
Interior Light Usage	20 Watts		Warranty - Parts	1 Year	
Turntable Diameter	12.25"				
Turntable Material	Glass				

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1.7 Cu. Ft. Over-The-Range Microwave Over-The-Range Microwave

Available Products: FMOS1746BS, FMOS1746BB, FMOS1746BW Available Colors: Stainless Steel

Version: 09/24

Dimensions and Volume	
Height	16 7/16"
Width	29 7/8"
Depth	15 7/16"
Depth With Door 90° Open	36 13/16"
Microwave Interior Height	9 7/8"
Microwave Interior Width	20 7/8"
Microwave Interior Depth	14 9/16"
Microwave Capacity	1.7 Cu. Ft.

Installation	
Power Supply Connection Location	Right Top

Safety Certifications and Approvals	
UL Listed	Yes

Exterior	
Door Swing	Side-Swing Door
Surface Light System	
Lighting Type	Incandescent

Electrical Specifications	
Amps @ 120 Volts	13.5 Amps
Connected Load @ 120V	1.55 kW
Voltage Rating	120 V
Watts @ 120 Volts	1560 Watts

General Specifications	
Prop 65 Label	Yes
Interior Light Type	Incandescent
Warranty - Labor	1 Year
Warranty - Parts	1 Year

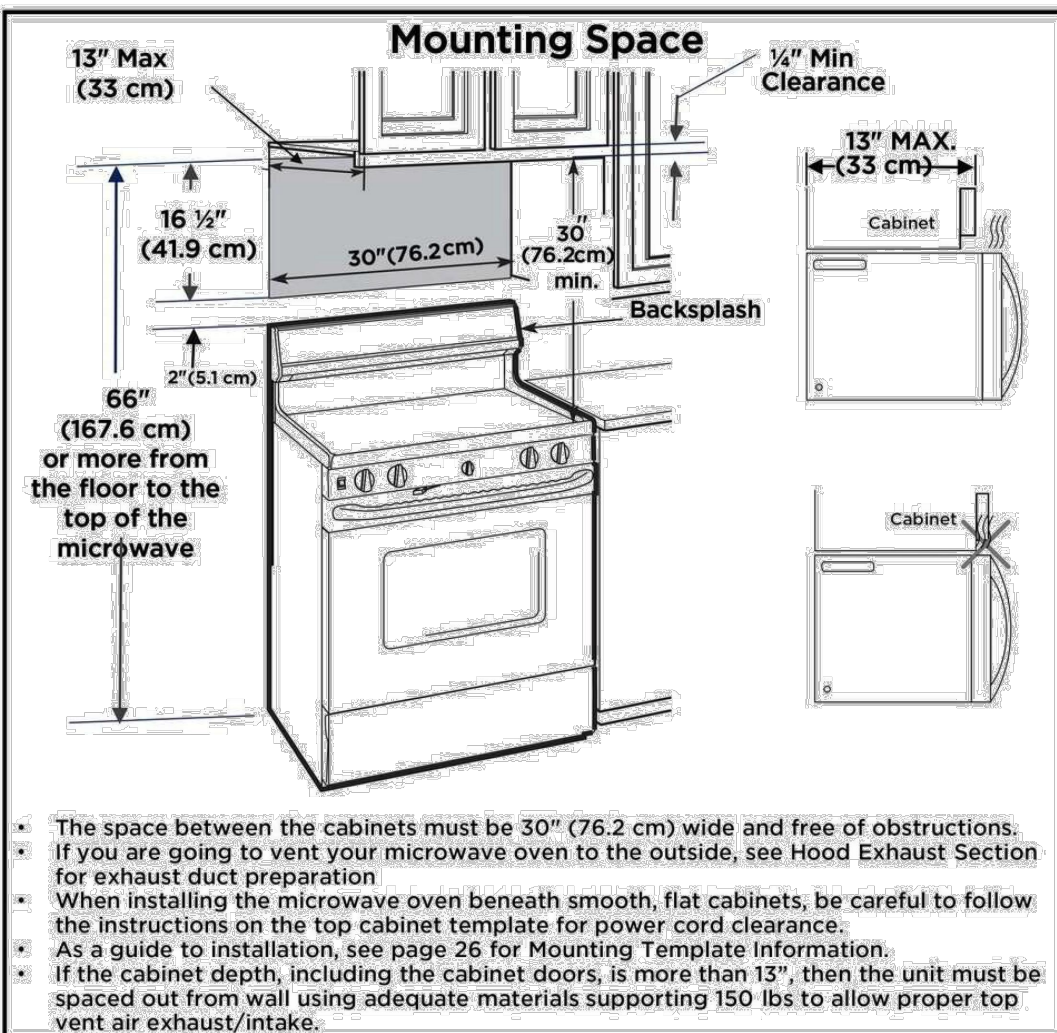
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CANADA • 3655 Terry Fox Way • Mississauga, ON L5V 3E4 • 1-800-265-8352 • frigidaire.ca

1.7 Cu. Ft. Over-The-Range Microwave Over-The-Range Microwave

Available Products: FMOS1746BS, FMOS1746BB, FMOS1746BW Available Colors: Stainless Steel

Version: 09/24

Installation Diagram



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30" Electric Range Electric Range

Available Products: FCRE3052BB, FCRE3052BS,

FCRE3052BW

Version: 10/23

Electrical Specifications	
Connect Load @ 240V	12 kW
Minimum Circuit Required	40 Amps
Voltage Rating	240 V

General Specifications	
Frigidaire Fit Promise	Yes
Prop 65 Label	Yes
Warranty - Labor	1 Year
Warranty - Parts	1 Year

Dimensions and Volume	
Minimum Height	46 3/4"
Maximum Height	47 3/4"
Width	30"
Depth	26"
Depth With Door 90° Open	47 5/16"
Depth With Handle	28 1/2"
Oven Interior Height	18 1/8"
Oven Interior Width	25 3/16"
Oven Interior Depth	19 7/8"
Oven Capacity	5.3 Cu. Ft.

Installation	
Adjustable Leveling Legs	Yes
Safety Certifications and Approvals	
UL Listed	Yes
RoHS	Yes

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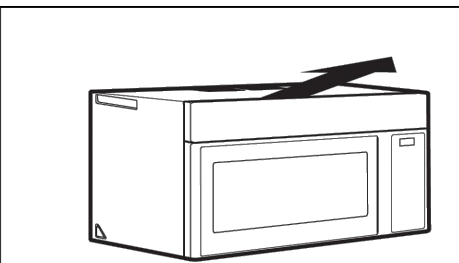
Installation Instructions

2 INSTALLATION TYPES (Choose A, B or C)

This microwave oven is designed for adaptation to the following three types of ventilation:
A. Recirculating (Non-Vented Ductless)
B. Outside Back Exhaust (Horizontal Duct)
C. Outside Top Exhaust (Vertical Duct)

NOTE: This microwave is shipped assembled for Recirculating. Select the type of ventilation required for your installation and proceed to that section.

A RECIRCULATING (NON-VENTED DUCTLESS)

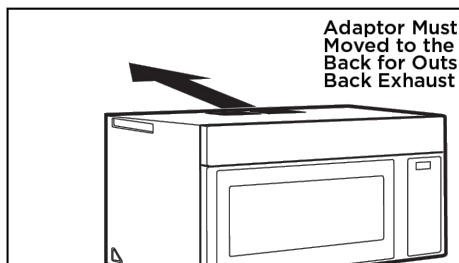


See page 10

Models are shipped for recirculating exhaust.

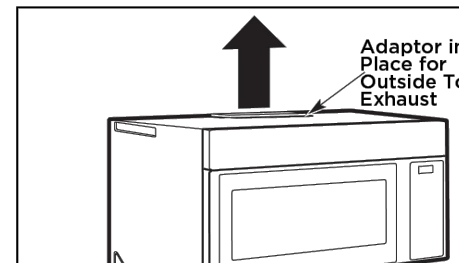
A disposable charcoal filter installed to help remove smoke and odors.

B OUTSIDE BACK EXHAUST (HORIZONTAL DUCT)



See page 16

C OUTSIDE TOP EXHAUST (VERTICAL DUCT)



See page 20

NOTE: Read the pages 14-15 only if you plan to vent your exhaust to the outside. If you plan to recirculate the air back into the room, proceed to page 10.

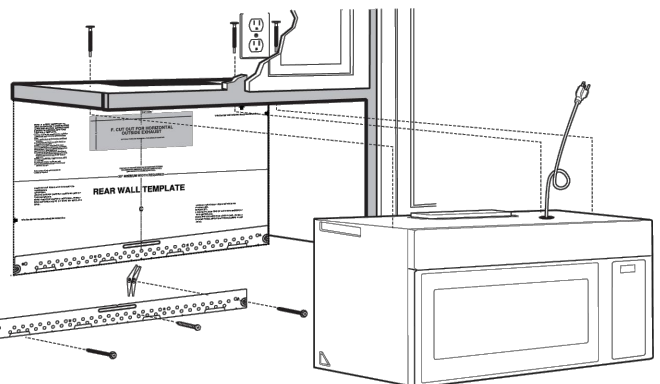
EN-9

Installation Instructions

C OUTSIDE TOP EXHAUST (Vertical Duct)

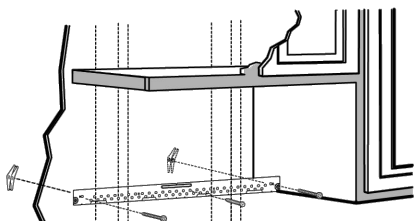
INSTALLATION OVERVIEW

- C1. Attach Mounting Plate to C2. Wall Prepare Top Cabinet
- C3. Adapting Microwave Blower for Outside Top Exhaust
- C4. Check Damper Operation
- C5. Mount Microwave Oven
- C6. Adjust Exhaust Adaptor
- C7. Connect Ductwork



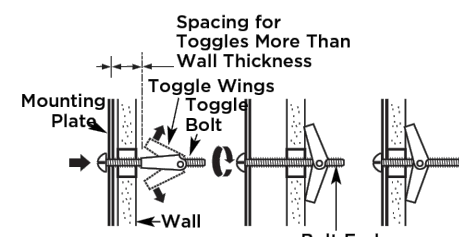
- IMPORTANT NOTES:
 - Make sure the screws for the blower motor and blower plate are securely tightened when they are reinstalled. This will help to prevent excessive vibration.
 - Make sure the motor wiring has been properly routed and secured, and that the wires are not pinched.

C1. ATTACH THE MOUNTING PLATE TO THE WALL



- Remove the toggle wings from the bolts.
- Insert the bolts into the mounting plate through the holes designated to go into drywall and reattach the toggle wings to 3/4" (19 mm) onto each bolt.

To use toggle bolts:



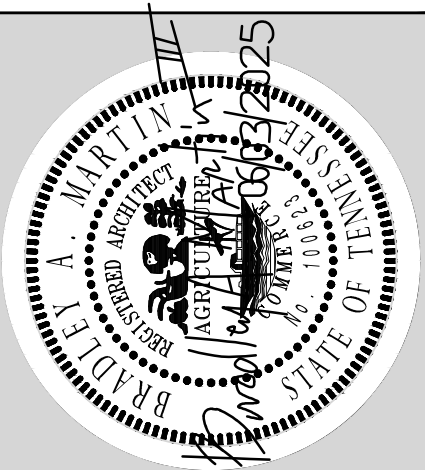
- Place the mounting plate against the wall and insert the toggle wings into the holes in the wall to mount the plate.
- NOTE: Before tightening toggle bolts and wood screw, make sure the bottom of the mounting plate touch the bottom of the cabinet when pushed flush against the wall and that the plate is properly centered under the cabinet.
- CAUTION: Be careful to avoid pinching fingers between the back of the mounting plate and the wall.
- Tighten all bolts. Pull the plate away from the wall to help tighten the bolts.

EN-20

2 ELECTRIC RANGE SPECIFICATIONS

A2.3

For planning purposes only. We reserve the right to change specifications or discontinue models without notice. Refer to Product Installation Guide for detailed installation instructions on the web at [frigidaire.com / frigidaire.ca](http://frigidaire.com/frigidaire.ca)
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HICKMAN COUNTY HIGH SCHOOL RENOVATION TO CONSUMER SCIENCE CLASSROOM

APPLIANCE SPECIFICATIONS

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EDO
Revision Date	
Revision Date	
Revision Date	

A2.3

SHEET NO.

SECTION 15050 - BASIC MATERIALS AND METHODS

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

- A. Conform to International Building, Mechanical, Plumbing, Fuel Gas & Energy Conservation Codes, Editions as adopted by local authority having jurisdiction.

- B. Obtain permits and request inspections from authority having jurisdiction.

1.2TRANSPORTATION AND HANDLING

- A. Transport and handle Products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure that Products comply with requirements, quantities are correct, and Products are undamaged.
- C. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

1.3 STORAGE AND PROTECTION

- A. Store and protect Products in accordance with manufacturers' instructions, with seals and labels intact and legible.
- B. Store sensitive Products in weather tight, climate controlled enclosures.
- C. For exterior storage of fabricated Products, place on sloped supports, above ground.
- D. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

1.4PROJECT/SITE CONDITIONS.

- A. Install work in locations shown on drawings unless prevented by Project conditions. Coordinate work with site conditions prior to ordering or fabricating materials. Prepare drawings showing proposed rearrangement of work to meet project conditions, including changes to work specified in other sections. Obtain approval of architect/engineer before proceeding.

PART 2 PRODUCTS

2.1MECHANICAL IDENTIFICATION

- A. Plastic Nameplates and Tags: Laminated three-layer plastic.

PART 3 EXECUTION

3.1INSTALLATION

- A. Install plastic nameplates with adhesive.
- B. Install plastic tags with corrosion resistant metal chain.

SECTION 15250 - MECHANICAL INSULATION

PART 1 GENERAL

NOT USED

PART 2 PRODUCTS

2.1PIPE INSULATION

- A. Glass Fiber: Rigid molded, noncombustible with vapor barrier jacket.
- B. Cellular Foam: Flexible, cellular elastomeric, molded or sheet.
- C. Jackets
1. PVC Plastic: One piece molded type fitting covers.

2.2DUCTWORK INSULATION

- A. Glass Fiber Wrap: flexible, noncombustible blanket with vapor barrier jacket. K value 0.25 at 75F; density 2.0 lb/cu ft. Knaut Micrilite or approved equal.
- B. Glass Fiber Liner: flexible noncombustible blanket, K value 0.25 at 75F; density 2.0 lb/cu ft. anti-microbial coating, Knaut Duct Liner M or approved equal.

PART 3 EXECUTION

3.1INSTALLATION

- A. Piping Insulation
1. Provide cold pipes with vapor barrier jackets. Insulate complete system.
2. Provide hot pipes with standard jackets. Bevel and seal ends of insulation at equipment, flanges, and unions.
3. Interior exposed piping - canvas jacket and fitting covers.
4. Exterior piping - aluminum jacket and fitting covers.
5. Route insulation through pipe hangers as calcium silicate or galvanized steel shield for proper support.
- B. External Ductwork Insulation
1. Provide cold ductwork with vapor barrier jacket. Seal vapor barrier penetrations with vapor barrier adhesive.
2. Interior exposed ductwork, rigid duct board, finish with canvas jacket sized for finish painting.
3. Exterior ductwork, rigid duct board, finish with aluminum jacket.

3.2SCHEDULES (sizes listed are minimum and shall also comply with locally adopted energy code)

Piping Insulation	Pipe Size Inch	Thickness Inch
1. Glass Fiber or Cellular Foam Insulation		
Domestic Cold Water	all sizes	1/2"
Domestic Hot Water & recirc	all sizes	1/2"
Floor Drains above grade	all sizes	1/2"
2. Cellular Foam Insulation		
Water Buried in concrete	all sizes	1/2"
Refrigerant Suction Piping (Inside)	all sizes	1-1/2"
Refrigerant Suction Piping (Outside)	all sizes	1-1/2"

SECTION 15400 - PLUMBING

PART 1 GENERAL

NOT USED

PART 2 PRODUCTS

2.1PIPING

- A. Sanitary Sewer Buried and Above Grade: Cast Iron Pipe, service weight or P.V.C. schedule 40
- B. Water Buried Under Building: Copper tube, Type K, annealed.
- C. Water Above Grade:
1. Copper tube, Type L, hard drawn.
2. PEX: Uponor PEX-A (not allowed in exposed areas).
- D. Natural Gas: Steel, Schedule 40 Black, Threaded or Welded, Buried shall be welded with awwa C105 polyethylene jacket.

2.2 VALVES

- A. BALL VALVES:
- | | | | |
|--------------------------|------------------|---------------------|-----------------|
| (screwed) 1/2" & smaller | NIBCO
T585-70 | MILWAUKEE
BA-300 | HAMMOND
8300 |
| (solder) 1" & smaller | S-585-70 | A-150 | 8311 |
- B. PLUG VALVES
1. Manufactures:
- A. DeZurik Perma-seal.
- B. Other manufactures offering equivalent products will be considered.
- C. WATER PRESSURE REDUCING VALVES
1. Manufactures:
- A. Watts
- B. Other acceptable manufactures offering equivalent products.
1. Mueller
2. Wilkins.
2. Up to 2 inches: Bronze body, stainless steel and thermoplastic internal parts, fabric reinforced diaphragm, strainer, threaded and single union ends.
- D. RELIEF VALVES
1. Manufactures:
- A. Watts
- B. Other acceptable manufactures offerings equivalent products.
1. Mueller
2. Wilkins.
2. Bronze body, teflon seat, steel stem and springs, automatic, direct pressure actuated, capacities ASME certified and labelled.
- E. STRAINERS
1. Manufactures:
- A. Watts
- B. Other acceptable manufactures offering equivalent products.
1. Muller
2. Wilkins
2. Size 2 inch and Under: Screwed brass or iron body for 175 psig working pressure, Y pattern with 3/4inch stainless steel perforated screen.

2.4 PLUMBING FIXTURES

- A. See PLUMBING FIXTURE SCHEDULE

- B. Manufacturers:
1. Water Closets & Lavatories:
- a) Kohler.
- b) Zurn.
- c) American Standard.
- d) Toto.
2. Sinks
- a) Elkay.
- b) Just.
3. Faucets
- a) Symmons.
- b) Zurn.
- c) Elkay.
- d) American Standard.
4. Lavatory & Sink P-traps & Stop Valves
- a) McGuire.
- b) Zurn.
- c) Engineered Brass Company.
5. Janitor Sinks
- a) Stern Williams.
- b) Mustee.
6. Drinking Fountains
- a) Oasis.
- b) Elkay.
- c) Halsey Taylor.
7. Floor Drains & Wall Hydrants/Hose Bibs
- a) Zurn.
- b) J.R. Smith.
- c) Josam.
- d) Watts.
- e) Woodford.
8. Trap Primer Valves
- a) Precision Plumbing Products.
- b) MIFab.
- c) Sioux Chief.























2.5 EQUIPMENT

- A. Electric Water Heaters
1. Factory-assembled and wired, electric, vertical storage type.
2. Galvanized tank, automatic thermostat, and maximum 50 psig working pressure.

PART 3 EXECUTION

3.1INSTALLATION

- A. Provide dielectric connections wherever jointing dissimilar metals.
- B. Install water hammer arrestors complete with accessible isolation valve.
- C. Install each fixture with chrome plated rigid or flexible supplies with C.screwdriver stops, reducers, and escutcheons.
- D. Use dielectric connections only in accessible locations.
- E. Install unions downstream of valves and at equipment or apparatus connections.
- F. Install ball valves for shut-off and to isolate equipment, part of systems, or vertical risers.
- F. Install plug valves for shut-off and to isolate equipment, part of systems, or vertical risers in fuel gas systems.
- G. Paint fuel gas piping exposed to weather - coordinate color(s) with architect.
- H. Disinfect piping system by cleaning and flushing:
1. Ensure Ph of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid (hydrochloric).
2. Inject disinfectant, free chlorine in liquid, powder, tablet, or gas form, throughout system to obtain 50 to 80 mg/L residual.
3. Maintain disinfectant in system for 24 hours.
4. If final disinfectant residual is less than 25 mg/L, repeat treatment.
5. Flush disenfectant from system until residual equal to that of incoming water or 1.0mg/L.
6. Take samples no sooner than 24 hours after flushing, from 10% of outlets and from water entry, and analyze in accordance with AWWA C651.

PLUMBING LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATIONS
	COLD WATER (UNDERGROUND)	
	COLD WATER	C.W.
	HOT WATER (TEMPERATURE, IF MORE THAN ONE)	H.W.
	HOT WATER RETURN	H.W.R.
	CLEAN-OUT	C.O.
	SANITARY SEWER (UNDERGROUND)	
	SANITARY SEWER	S.S.
	VENT	V
	VENT THROUGH THE ROOF	V.T.R.
	CONDENSATE DRAIN	C.D.
	RISER IDENTIFICATION	
	FIXTURE IDENTIFICATION (SEE SPECIFICATIONS)	
	VALVES (SEE SPECIFICATIONS FOR TYPE)	
	SHOCK STOP	
	BALANCING VALVE	
	CONNECT TO EXISTING PIPING	
	EXISTING PIPING TO REMAIN	
	EXISTING PIPING TO BE ABANDONED	
	EXISTING PIPING TO BE REMOVED	
	EXISTING FIXTURE	
	EXISTING FIXTURE TO BE REMOVED	
	EXISTING FIXTURE TO BE RELOCATED	

FIXTURE CONNECTION SCHEDULE					
P-#	DESCRIPTION	C.W. (IN.)	H.W. (IN.)	WASTE (IN.)	VENT (IN.)
S-1	SINK (2-COMP., DROP-IN, S.S.) ELKAY LR3319 SINK (33 x 19 x 7 1/2"). ELKAY LR4104 S.L.F. WITH SPRAY. ELKAY D5018A DRAIN FITTING WITH BASKET STRAINER. McGUIRE 111 CONTINUOUS WASTE. McGUIRE H2165 SUPPLY/STOP. PROVIDE PRE-MOLDED INSULATION ON P-TRAP AND SUPPLY/STOPS. INSINKERATOR 'EVOLUTION ESSENTIAL' FOOD WASTE DISPOSAL COORDINATE INSTALLATION w/EQUIPMENT SUPPLIER	1/2	1/2	1 1/2	1 1/2



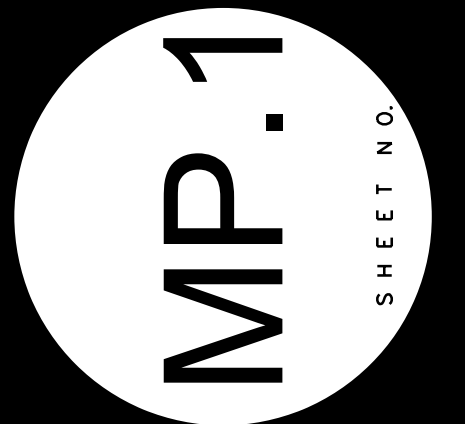
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HICKMAN COUNTY HIGH
SCHOOL RENOVATION TO
CONSUMER SCIENCE
CLASSROOM

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EE
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Revision Date	
Revision Date	



PLUMBING DEMOLITION NOTES:

A. REMOVE PLUMBING SYSTEMS (EQUIPMENT, PIPING, CONTROLS, ETC.) SERVING THE AREA OF RENOVATION. ONLY AS INDICATED. FIELD VERIFY PRIOR TO REMOVING. CAP PIPING AND NOTIFY DESIGN TEAM OF ANY ISSUES AS SOON AS PRACTICAL.

GENERAL HVAC & PLUMBING NOTES:

- A. THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE HVAC & PLUMBING WORK.
- B. COORDINATE PIPE ROUTING WITH ALL TRADES & CONDITIONS PRIOR TO FABRICATION. SUBMIT ANY MAJOR CHANGES IN ROUTING OR SIZING AS A SHOP DRAWING TO THE ARCHITECT/ENGINEER FOR REVIEW.
- C. MAINTAIN CLEARANCES FROM ELECTRICAL PANELS AS REQUIRED BY N.E.C.
- D. MAINTAIN CLEARANCES FOR SERVICE OF EQUIPMENT AS REQUIRED BY MANUFACTURER AND NEC 110.26. PROVIDE EQUIPMENT ROOM SHOP DRAWINGS AS REQUIRED FOR COORDINATION.

PLUMBING PLAN NOTES:

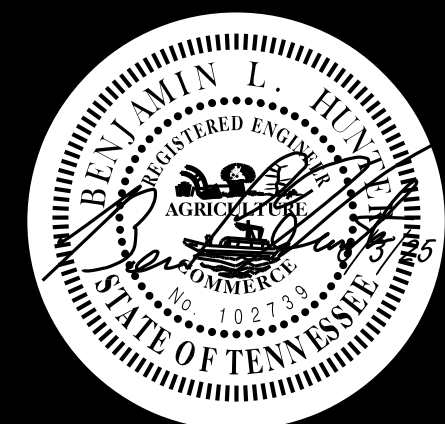
1. REMOVE EXISTING FIXTURE AND INSTALL/RECONNECT NEW FIXTURE TO EXISTING WATER DRAIN & VENT PIPING WITH NEW STOP VALVES & P-TRAPS.
2. ROUTE HW SUPPLY FROM SINK TO DISHWASHER AND DRAIN FROM DW TO SINK W/DRAIN YOKE CONNECTION ABOVE P-TRAP

HVAC PLAN NOTES:

1. EXISTING RANGE HOOD VENT TO BE REUSED. INSPECT, CLEAN AND REPORT FINDINGS PREPARE FOR NEW CONNECTION TO NEW HOOD EXHAUST - COORDINATE REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
2. DRYER VENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. DUCTS SHALL BE GALVANIZED, MIN. 0.016 IN. THICK, WITH SMOOTH INTERIOR FINISH. PROVIDE DRYER VENT CAP W/GRAVITY DAMPER & TAMPER PROOF SCREWS.



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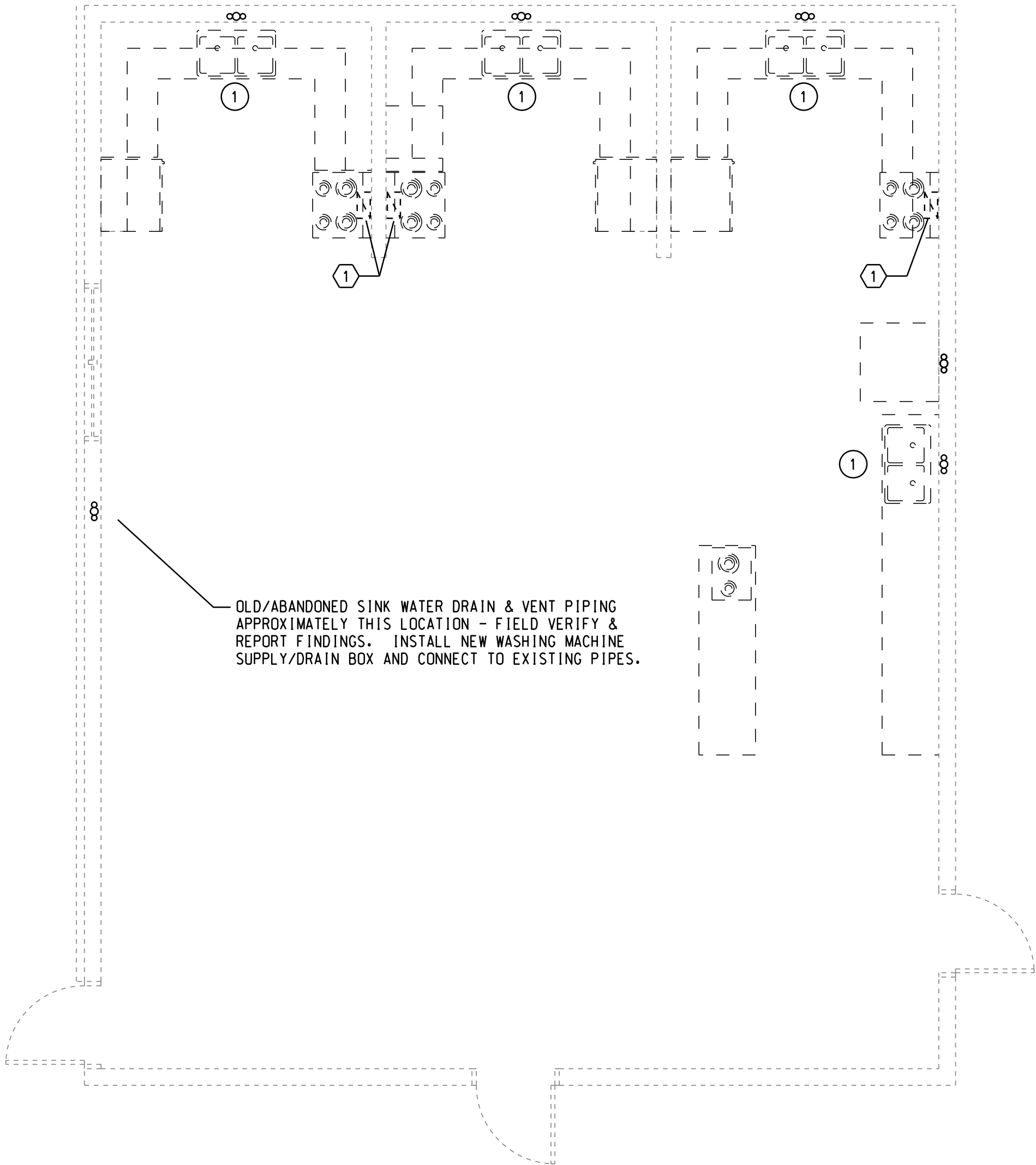
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**HICKMAN COUNTY HIGH
SCHOOL RENOVATION TO
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CLASSROOM**

PLUMBING
FLOOR PLANS

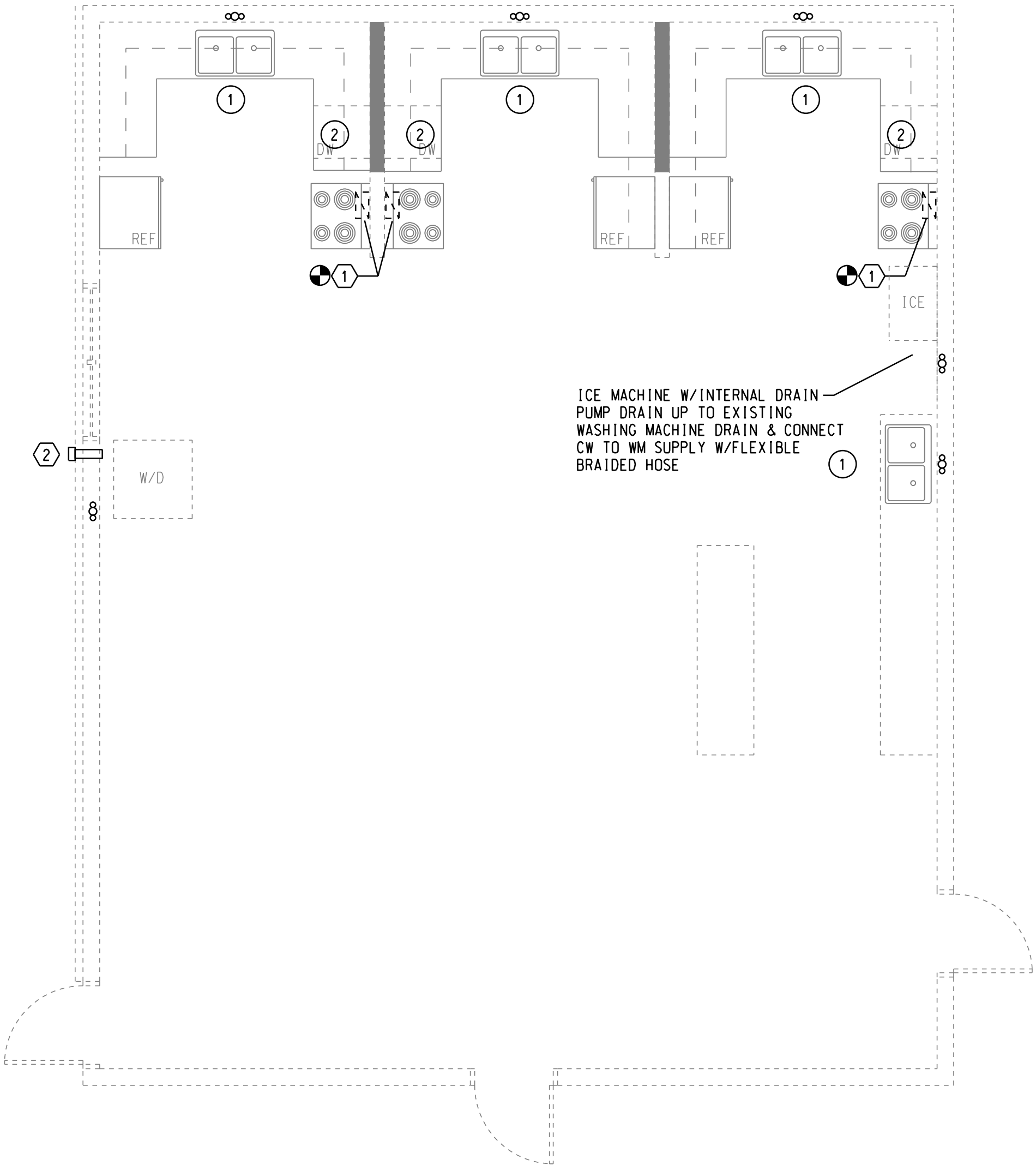
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Drawn By	EE
Revision Date	
Revision Date	
Revision Date	

MP.2
SHEET NO.



HVAC & PLUMBING
DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"



HVAC & PLUMBING
RENOVATION FLOOR PLAN

SCALE: 1/4" = 1'-0"

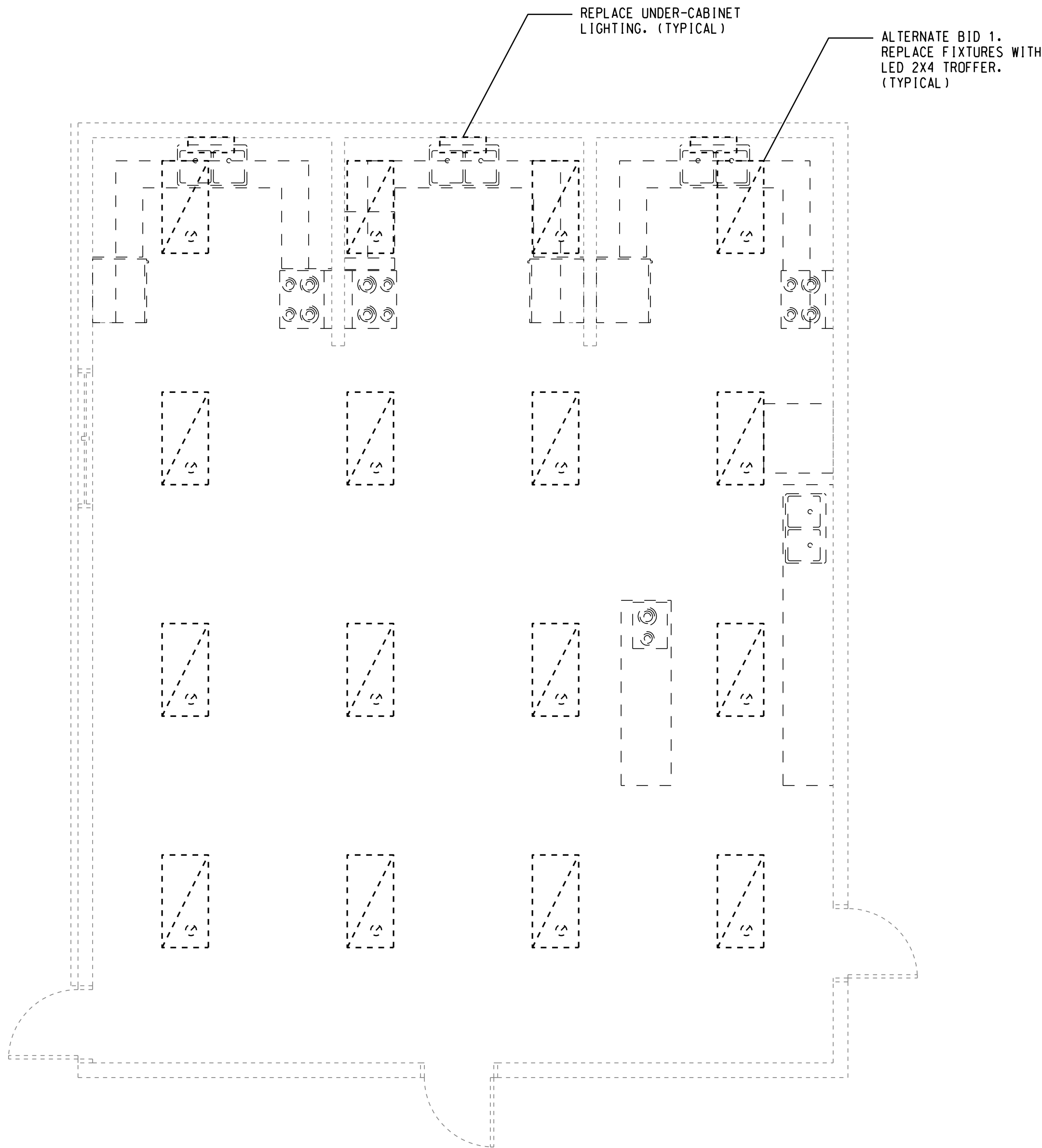


GENERAL NOTES:

- A. SEE GENERAL DEMO NOTES ON E3.1
B. EMERGENCY EGRESS BATTERY TO BE UNSWITCHED
C. GC TO INSPECT EXISTING CONDITIONS PRIOR TO BID.

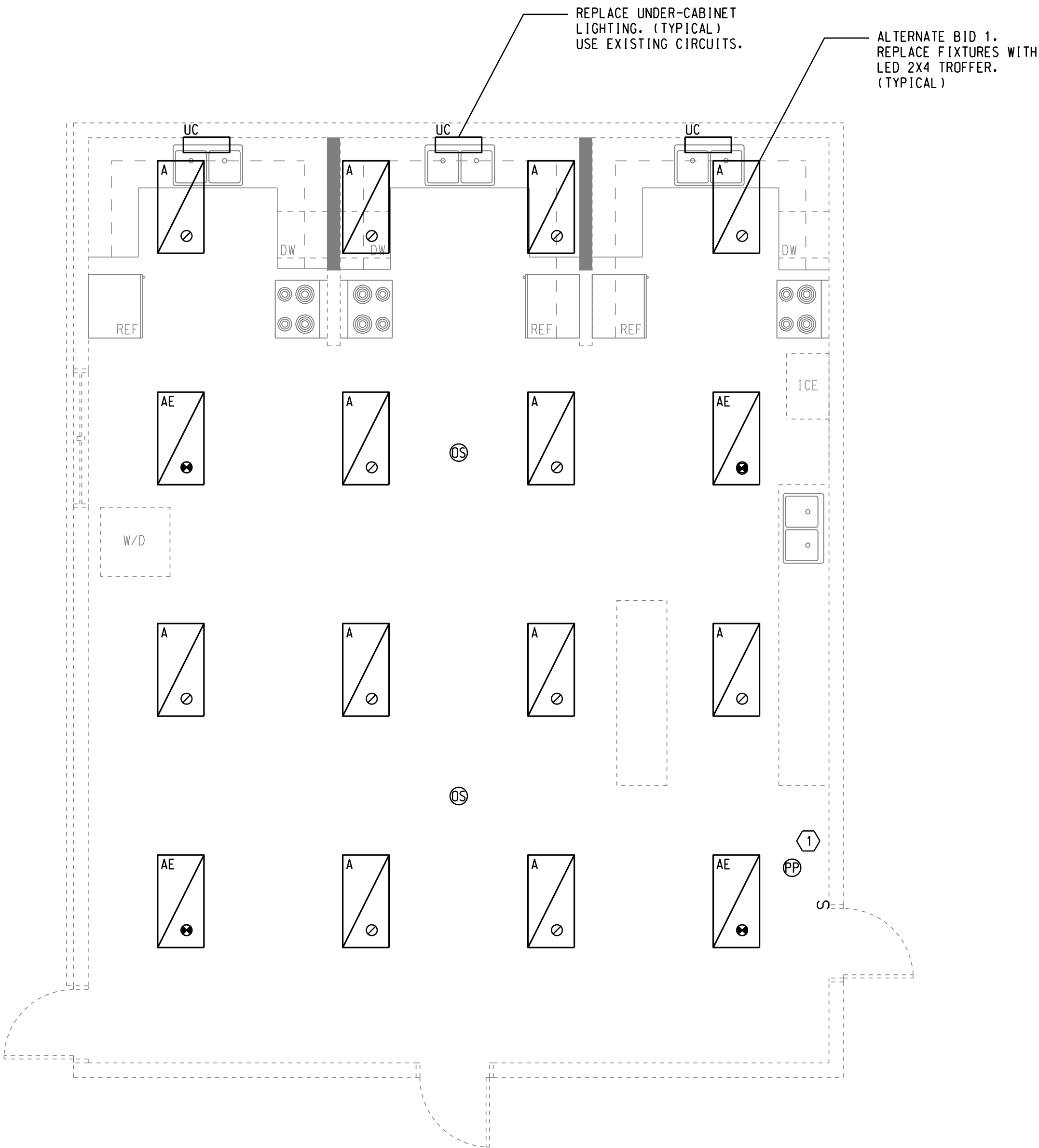
PLAN NOTES:

1. PROVIDE POWER PACK RELAY AND OCCUPANCY SENSORS.



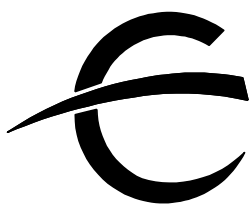
LIGHTING
DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

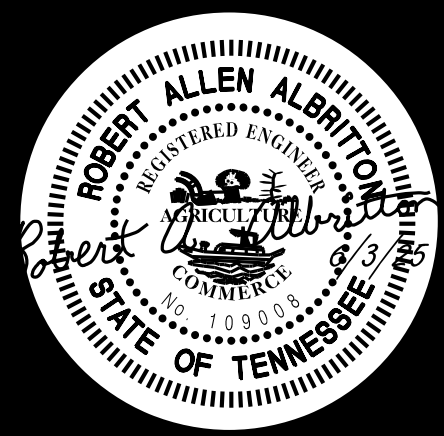


LIGHTING
RENOVATION FLOOR PLAN

SCALE: 1/4" = 1'-0"



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LIGHTING
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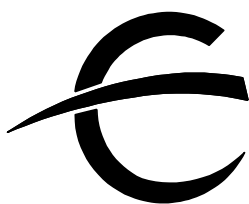
E1.0

S H E E T N O.

- GENERAL NOTES:
- A. GC TO INSPECT ALL EXISTING CONDITIONS PRIOR TO BID.
 - B. SEE GENERAL DEMO NOTES ON E3.01
 - C. ALL OUTLET WITHIN 6' OF A WATER SOURCE SHALL HAVE GFI PROTECTION.
 - D. ITEMS MARKED WITH AN X ARE TO BE DEMOLISHED. ALL OTHERS ARE TO REMAIN.
 - E. (EX) DENOTES EXISTING TO REMAIN.

- PLAN NOTES:
- 1. DUPLEX RECEPTACLE CIRCUIT BRANCH TO BE DEMOLISHED.
 - 2. J-BOX AND CIRCUITING FOR OVEN/RANGE TO BE DEMOLISHED
 - 3. DUPLEX OUTLET TO BE SWAPPED OUT QUADRAPLEX OUTLET.
 - 4. REMOVE DRYER RECEPTACLE CIRCUIT. TO BE RELOCATED AS SHOWN.
 - 5. MOVE 120V/20A-1P RECEPTACLE AS SHOWN TO SERVE RELOCATED LAUNDRY WASHING MACHINE. CIRCUIT TO HAVE GFCI PROTECTION.
 - 6. PROVIDE DEDICATED 20A-1P GFI PROTECTED DUPLEX CIRCUIT TO SERVE NEW ICE MACHINE INSTALLATION. CONNECT TO NEW/SPARE 20A CIRCUIT BREAKER IN EXISTING PANEL '3JP' USING FEEDER 'A2'.
 - 7. CONNECT QUAD RECEPTACLE TO EXISTING CIRCUIT USING FEEDER 'A2'.

BRANCH CIRCUIT AND FEEDER LEGEND	
FEEDER NO.	CONDUIT AND WIRE
A2	1/2" - 2 #12 & 1 #12 GND.
B1	3/4" - 2 #10 & 1 #10 GND.



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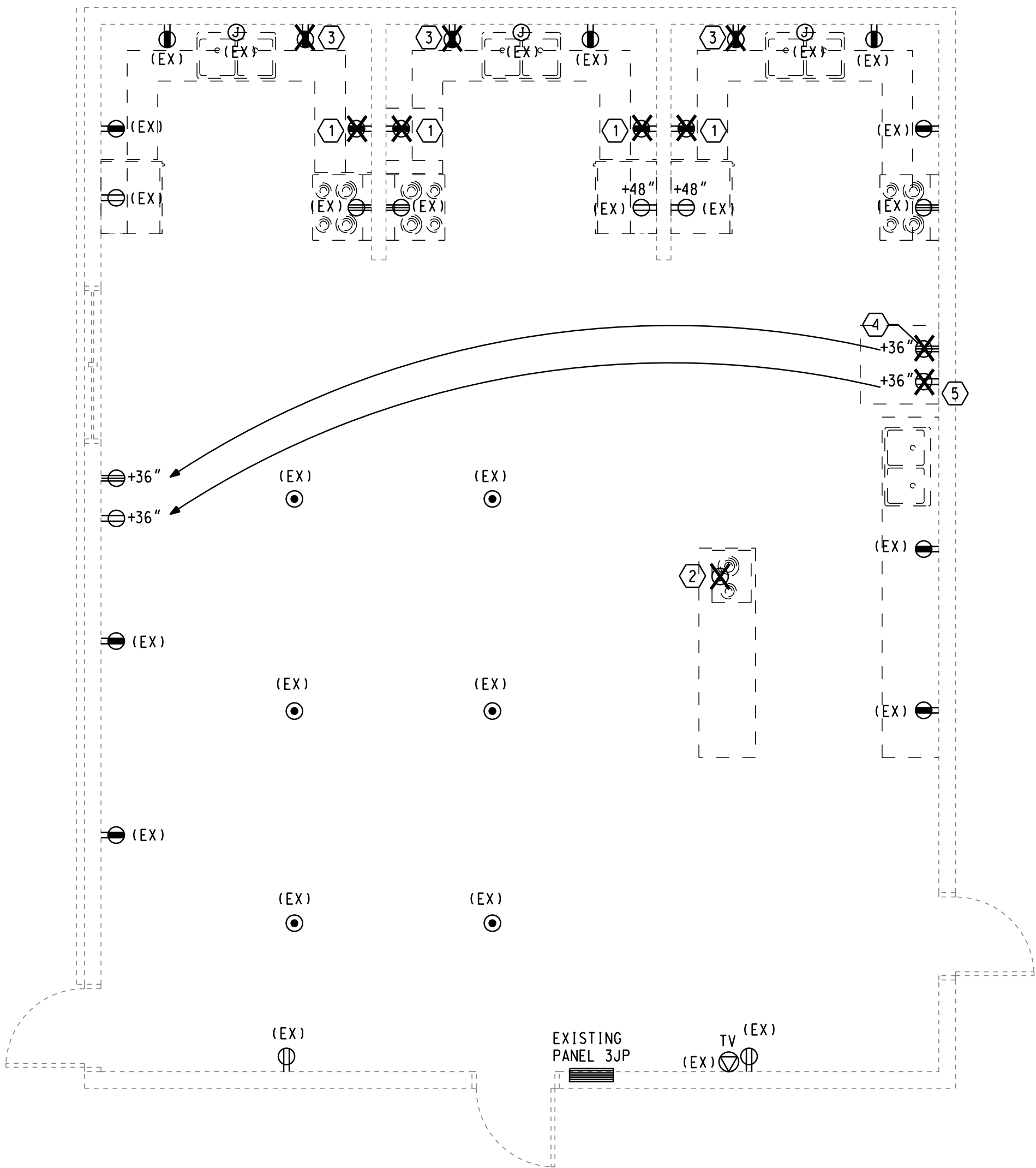
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POWER/SYSTEMS
FLOOR PLANS

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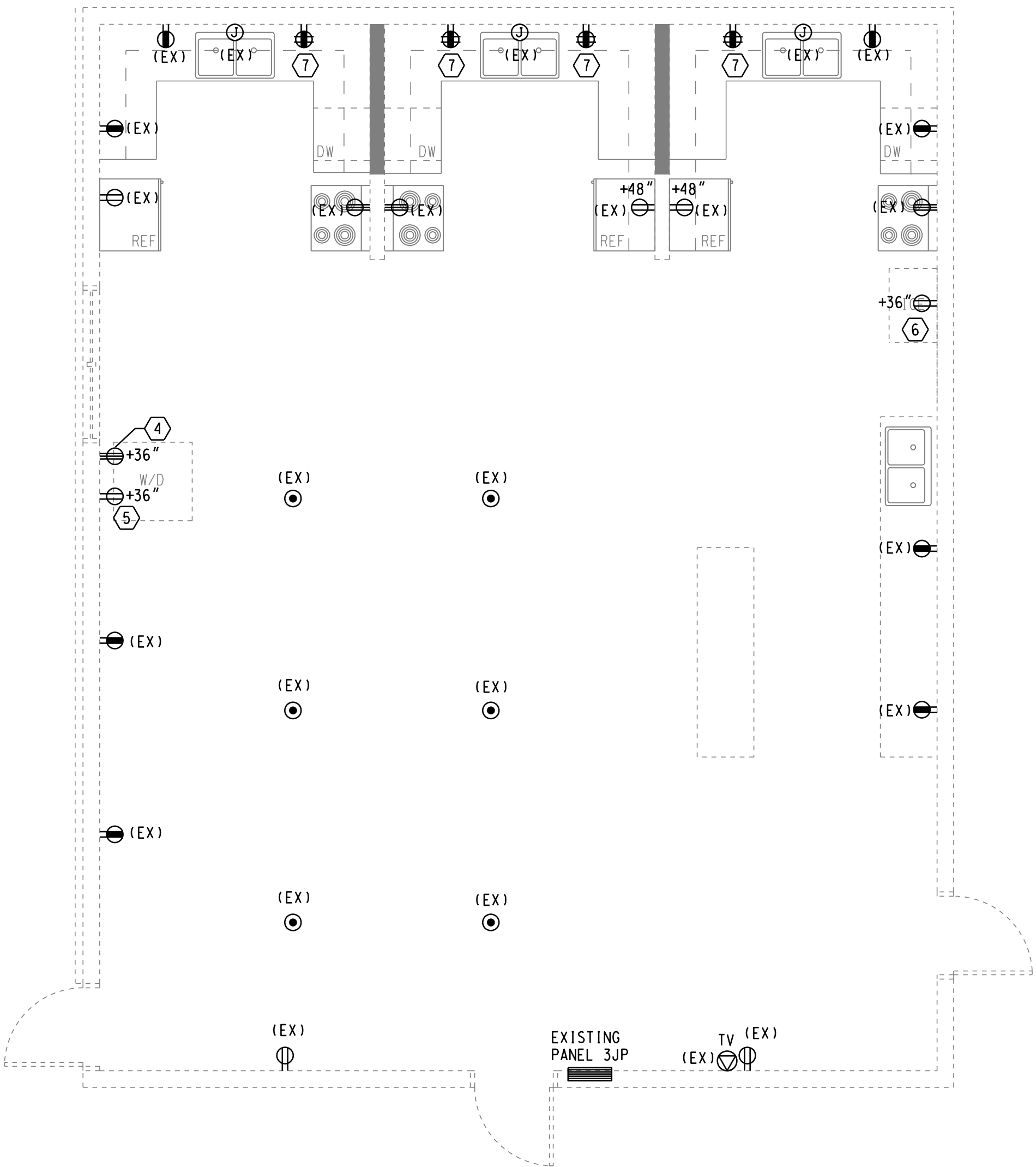
E2.1

SHEET NO.



POWER/SYSTEMS
DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"




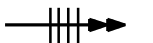
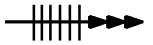
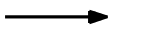

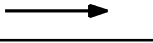
POWER/SYSTEMS
RENOVATION FLOOR PLAN

SCALE: 1/4" = 1'-0"



LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		MOUNTING	REMARKS
			VOLT	QTY		
A	COLUMBIA	LCAT24-40-ML-G-E-U	120/ 277	--	33.3W LED	RECESSED
AE	COLUMBIA	LCAT24-40-ML-G-E-U-ELL14	120 277		33.3W LED	RECESSED
UC	COLUMBIA	MPS2-40MW-CN-EDU	120 277		13.6W LED	SURFACE ABY SINK/UNDER CAB.

* COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
** COLOR SELECTED BY ARCHITECT

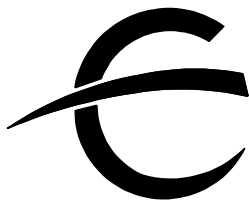
BRANCH CIRCUITING LEGEND		
	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
	A-1,3	TWO 1-POLE CKT HOMERUNS TO PANEL A
	A-1,3,5	THREE 1-POLE CKT HOMERUNS TO PANEL A
	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3,2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2017 NEC 210.4		

GENERAL NOTES AND SPECIFICATIONS

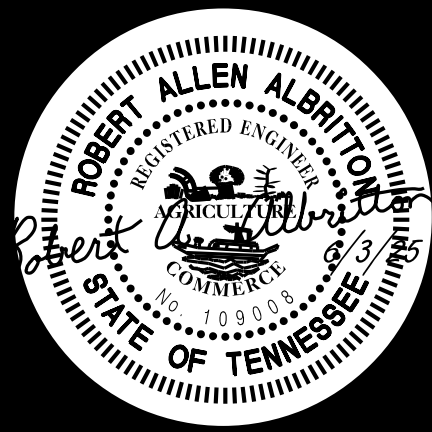
- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- B. COMPLY WITH THE NEC, STATE, AND LOCAL CODES.
- C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM 1/2" CONDUIT. USE 3/4" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC, TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.
- E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
- F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE.
- G. USE HUBBELL WIRING DEVICES AS FOLLOWS:
- SWITCHES - 15 AMP, #1201-1, 1202-1, 1203-1
SWITCHES - 20 AMP, #1221-1, 1222-1, 1223-1, 1224-1
SWITCHES - MOTOR STARTERS, USE SQUARE D CLASS 2510
RECEPTACLES - 15 AMP, #5252-1, 5262-1 FOR GENERAL PURPOSES.
RECEPTACLES - 20 AMP, SG63H-1 FOR SAFETY TYPE.
RECEPTACLES - GFCI, GF5262-1 (15A), GF5362-1 (20A).
- H. ALL WIRING MUST BE IN CONDUIT.
- I. EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
- J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC, AS NOTED ABOVE.
- K. USE 6' MAXIMUM LENGTH OF FLEXIBLE CONDUIT TO FIXTURES.
- L. LED FIXTURES SHALL HAVE HOLD DOWN CLIPS.
- M. REMOVE TEMPORARY WIRING UPON COMPLETION OF WORK. REMOVE UNUSED EXISTING WIRING UPON COMPLETION OF WORK.
- N. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. USE BUSS TYPE KTS OR KTN FUSES FOR PANEL AND TRANSFORMER FEEDERS.
- O. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES, MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.
- P. LED LAMPS SHALL BE 4000 DEGREES KELVIN, UON.
- Q. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
- R. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- S. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- T. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- U. RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE". THERE MUST BE A GASKET BETWEEN THE ENCLOSURE AND THE MOUNTING SURFACE, AND BETWEEN THE COVER AND BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. ENCLOSURE MUST BE MANUFACTURED BY TAYMAC CORPORATION OR EQUAL.
- V. LED LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP AS SCHEDULED ON THE PLANS PROVIDING 100-1400 LUMENS, MINIMUM. THE BATTERY SHALL BE A NICKEL CADMIUM TYPE, RATED FOR A TEN YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT. INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN ASSEMBLED LUMINAIRE.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO REFER TO NOTES AND LEGEND FOR DESCRIPTION AND DISPOSITION OF EXISTING ELECTRICAL ITEMS SHOWN ON DEMOLITION DRAWINGS. (TYPICAL FOR ALL).
2. EXISTING CIRCUIT BREAKERS FEEDING EXISTING LIGHTING, RECEPTACLES OR EQUIPMENT, WHERE ENTIRE CIRCUIT HAS BEEN REMOVED, TO BE LABELED "SPARE".
3. CONTRACTOR TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT FROM EXISTING WALLS AND CEILINGS BEING REMOVED OR MODIFIED UNDER THIS CONTRACT. ALL EXISTING CONDUIT AND WIRING FEEDING SAID ELECTRICAL EQUIPMENT IS TO BE REMOVED, TERMINATED OR REUSED AS DESCRIBED BELOW:
- A. CONDUIT FEEDING SAID EQUIPMENT FROM SLAB TO BE DISCONNECTED AND REMOVED BACK TO SOURCE.
- B. CONDUIT FEEDING SAID EQUIPMENT FROM ABOVE DROPPED CEILING TO BE DISCONNECTED AND REMOVED BACK TO SOURCE.
- C. ELECTRICAL CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING FEED-THROUGH CIRCUITRY. WHERE EXISTING ELECTRICAL EQUIPMENT HAS BEEN REMOVED FROM MIDPOINT OF CIRCUIT, NEW WIRE SHALL BE PULLED THE ENTIRETY OF CIRCUIT.
4. ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC., BEING REMOVED AND NOT BEING RELOCATED, TO BE CLEANED AND TURNED OVER TO OWNER'S REPRESENTATIVE.
5. ELECTRICAL CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING CIRCUITRY TO REMAIN.
6. ALL ELECTRICAL EQUIPMENT SHOWN IS FROM EXISTING DRAWINGS AND FIELD OBSERVATION AND IS TO BE USED AS A GUIDE FOR EQUIPMENT LOCATIONS. CONTRACTOR TO VISIT SITE BEFORE BIDDING AND FIELD VERIFY EXISTING CONDITIONS.



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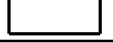
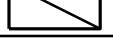
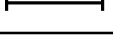

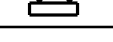
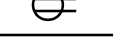



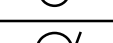
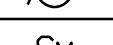

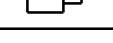

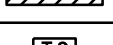
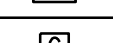

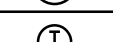
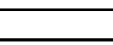
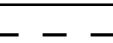
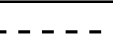

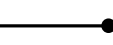








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HICKMAN COUNTY HIGH
SCHOOL RENOVATION TO
CONSUMER SCIENCE
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ELECTRICAL
LEGENDS & SCHEDULES

GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
	CEILING OUTLET, SURFACE FIXTURE	
	CEILING OUTLET, SURFACE FIXTURE w/BATTERY BACK UP	
	CEILING OUTLET, RECESSED FIXTURE	
	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
	BRACKET OUTLET	
	SURFACE FLUORESCENT LIGHTING FIXTURE	
	RECESSED FLUORESCENT LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHT FIXTURE	
	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	
S	SINGLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
S4	FOUR-WAY SWITCH	48" AFF
	DUPLEX GROUNDING RECEPTACLE	18" AFF
	DUPLEX GROUNDING RECEPTACLE	ABC
	FLOOR RECEPTACLE	
	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
	JUNCTION OR PULL BOX	
	MOTOR, E.F. DENOTES EXHAUST FAN	
SM	MANUAL MOTOR STARTER OR RELAY CONTROL	
	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
	LIGHTING OR POWER PANEL	
	MAIN OR SUB-DISTRIBUTION PANEL	
	TIME CLOCK - SEE SPECS	
	CONTACTOR - SEE SPECS	
	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
	THERMOSTAT, SEE MECHANICAL	
	CONDUIT, CONCEALED IN CEILING OR WALL	
	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
	CONDUIT, EXPOSED	
	CONDUIT, TURNING UP	
	CONDUIT, TURNING DOWN	
	CONDUIT, ELECTRICAL PRIMARY	
	CONDUIT, ELECTRICAL SECONDARY	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
ABC	ABOVE COUNTER	
UC	UNDERCOUNTER	
UON	UNLESS OTHERWISE NOTED	
GC	GENERAL CONTRACTOR	
MC	MECHANICAL CONTRACTOR	
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRIC DRINKING FOUNTAIN	
WH	WATER HEATER	
RTU	ROOF TOP UNIT	
TTB	TELEPHONE TERMINAL BOARD	
	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1"C. TO ABOVE CEILING)	18" AFF
	CEILING MOUNTED OCCUPANCY SENSOR	
	POWER PACK	
	AREA OR STREET LIGHTING FIXTURE	
	120 VOLT FIRE ALARM DUCT MOUNTED SMOKE DETECTOR - BY MC	

Project No.	1402.2
Issue Date	06/03/2025
Drawn By	EE
Revision Date	
Revision Date	
Revision Date	

E3.1

SHEET NO.