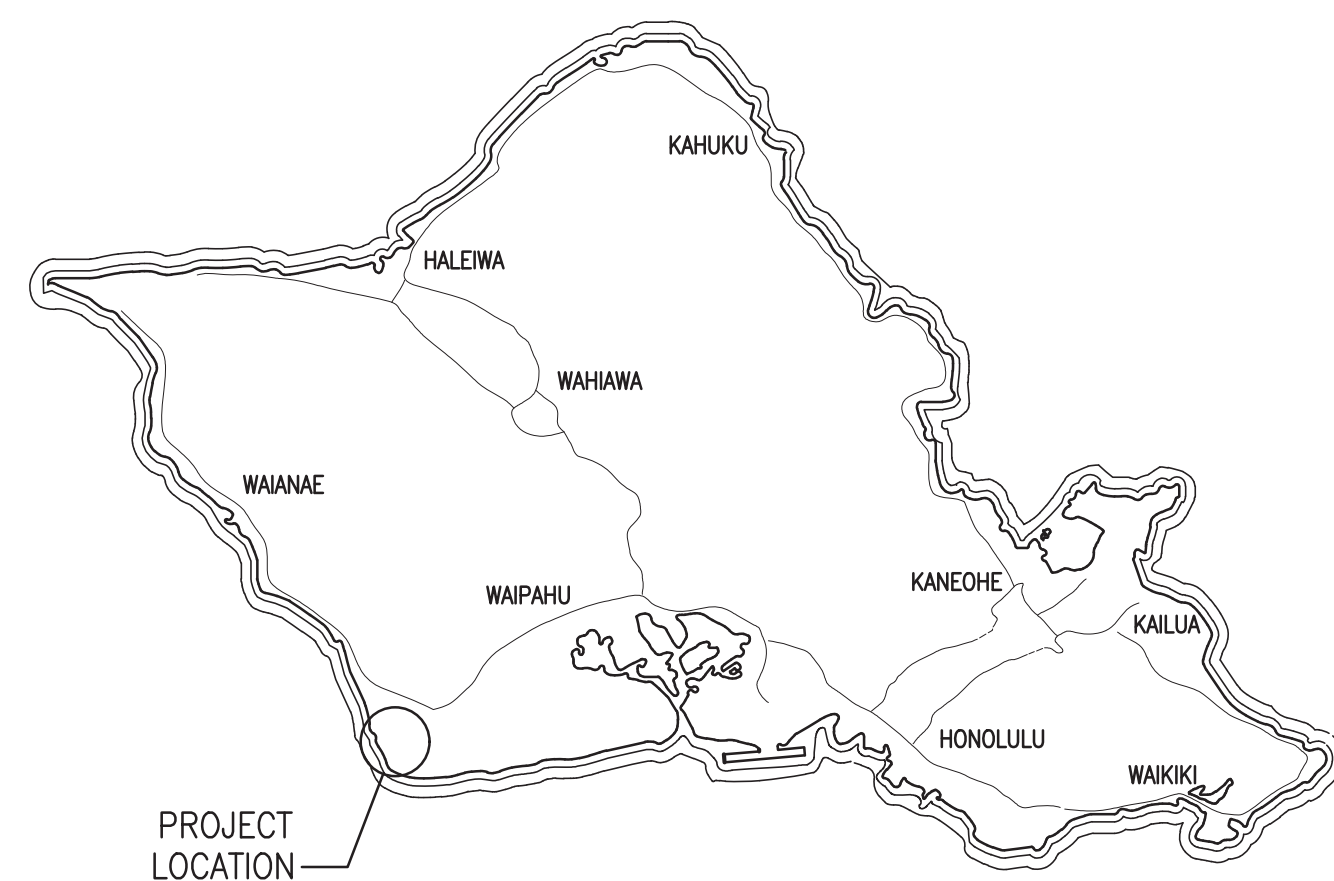


# REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR OAHU, HAWAII

FOR THE  
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HARBORS DIVISION  
**S10846**



PROJECT LOCATION:  
EXISTING HARBOR  
AGENT'S OFFICE

**CONSULTANTS:**

USHIJIMA ARCHITECTS, INC.  
ARCHITECT

MECHANICAL ENTERPRISES, INC.  
MECHANICAL ENGINEER

ECS, INC.  
ELECTRICAL ENGINEER

ELEMENT ENVIRONMENTAL, LLC.  
ENVIRONMENTAL CONSULTANT

DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

APPROVED BY:

Apr 4, 2023

FOR DIRECTOR OF TRANSPORTATION

DATE

SHEET

**T-1**

1 of 16 SHEETS

# INDEX TO DRAWINGS

SHEET NO.	SHEET TITLE
T-1	LOCATION MAP, ISLAND OF OAHU MAP, VICINTY MAP
T-2	INDEX TO DRAWINGS, SITE MAP (LIMITS OF WORK PLAN), GENERAL NOTES
A-1	GENERAL NOTES, LEGEND, DEMO. FLOOR PLAN, DEMO. ROOF PLAN
A-2	GENERAL NOTES, LEGEND, NEW FLOOR PLAN, NEW REFLECTED CEILING PLAN
A-3	INTERIOR ELEVATIONS, ACCESSIBILITY NOTES, TYPICAL MOUNTING HEIGHTS
A-4	DOOR SCHEDULE, DOOR TYPE & DETAILS, NEW FINISH PLAN, MATERIAL LIST, FIXTURES & ACCESSORIES
A-5	CABINET SECTIONS, FLOORING TRANSITIONS
M-1	GENERAL NOTES, LEGEND
M-2	DEMOLITION FLOOR PLAN
M-3	NEW PLUMBING FLOOR PLAN
M-4	NEW MECHANICAL FLOOR PLAN
M-5	MECHANICAL SCHEDULE AND DETAILS
E-1	ELECTRICAL SYMBOL LIST AND GENERAL NOTES
E-2	ELECTRICAL DEMOLITION PLAN
E-3	ELECTRICAL PLAN
E-4	LIGHTING PLAN

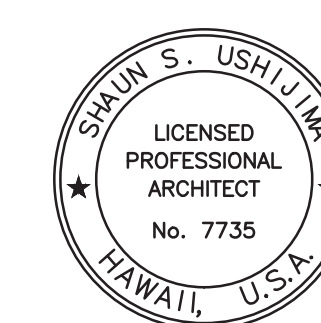


**SITE MAP (LIMITS OF WORK PLAN)**  
NOT TO SCALE

INDICATES  
LIMITS OF WORK

# GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND ACTUAL CONDITIONS ON SITE PRIOR TO THE SUBMITTAL OF ANY BIDS, OR THE INITIATION OF ANY WORK. IMMEDIATELY NOTIFY THE HARBORS DIVISION OF ANY DISCREPANCIES PRIOR TO ANY ADDITIONAL WORK.
2. PATCH ALL SURFACES AFFECTED BY SELECTIVE DEMOLITION TO MATCH ADJACENT AND/OR EXISTING CONDITIONS UNLESS NOTED OTHERWISE.
3. CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN SHALL BE DAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE, LANDSCAPING OR STRUCTURE TO THE ORIGINAL CONDITIONS.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A REASONABLY NEAT AND SAFE CONDITION. ALL WORK SHALL BE PERFORMED WITHIN LIMITS OF WORK AREAS COORDINATED WITH THE CONSTRUCTION ENGINEER. DELIVERY OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED TO MINIMIZE DISRUPTION OF EXISTING OPERATIONS. CONTRACTOR TO PROVIDE AND MAINTAIN SUITABLE BARRIERS AS REQUIRED TO PREVENT PUBLIC ENTRY AND TO PROTECT THE WORK AND EXISTING FACILITIES FROM CONSTRUCTION OPERATIONS, REMOVE WHEN NO LONGER REQUIRED, OR AT THE COMPLETION OF THE WORK.
5. WORKMANSHIP SHALL BE OF GOOD QUALITY IN ACCORDANCE TO INDUSTRY STANDARDS. NEW MATERIALS SHALL BE USED THROUGHOUT. ALL WORK SHALL BE DONE IN A MANNER SO AS TO MATCH ADJACENT WORK AND FINISHES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. AREAS FOR THE CONTRACTOR ZONE LIMITS, MATERIAL STORAGE SCHEDULING OF WORK TRASH DISPOSAL, WORKMEN'S PARKING, ETC. SHALL BE COORDINATED WITH THE HARBORS DIVISION. COORDINATE ALL WORK SCHEDULING, STAGING, AND ADMINISTRATIVE REQUIREMENTS WITH THE HARBORS DIVISION CONSTRUCTION ENGINEER.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY RELOCATION OF OFFICE FURNITURE, EQUIPMENT, SUPPLIES, ETC AS REQUIRED BY PROGRESS OF WORK IN ADDITION TO ITEMS COVERED UNDER SECTION -SELECTIVE DEMOLITION. GENERAL CONTRACTOR SHALL REPAIR, REPLACE OR PAY THE EXPENSE TO REPAIR DAMAGES RESULTING FROM CONTRACTOR'S FAULT OR NEGLIGENCE.
8. THIS PROJECT HAS BEEN REVIEWED BY DCAB AND TO THE BEST OF OUR KNOWLEDGE CONFORMS TO ADA ACCESSIBILITY GUIDELINES.
9. BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE (IBC 2018) AND ICC A117.1  
  
CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE OR THE FAIR HOUSING ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE. CONSTRUCTION OF PUBLIC BUILDINGS OR FACILITIES IN COMPLIANCE WITH HRS 103-50 SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE.
10. THE CONTRACTOR SHALL COMPLY WITH THE CLEAN WATER ACT AND THE STATE HARBORS DIVISION STORMWATER MANAGEMENT PROGRAM. NO POLLUTANTS ARE ALLOWED TO BE DISCHARGED DIRECTLY OR INDIRECTLY THROUGH THE HARBORS SMALL MS4 OR OTHER POTENTIAL PATHWAYS INTO HONOLULU HARBOR.
11. IN CASE OF SPILL, LEAK, OR OTHER RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL, THE CONTRACTOR SHALL NOTIFY APPROPRIATE FACILITY PERSONNEL, EMERGENCY RESPONSE AGENCIES, AND REGULATORY AGENCIES FOLLOWING NOTIFICATION PROCEDURES, AND SHALL NOTIFY HARBORS CONSTRUCTION ENGINEER IMMEDIATELY (I.E., WITHIN 24-HOURS). SUCH CONTACT INFORMATION MUST BE POSTED AT LOCATIONS THAT ARE READILY ACCESSIBLE.
12. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC BEST MANAGEMENT PRACTICE (BMP) PLAN TO HARBORS ENGINEER BRANCH PRIOR TO THE START OF ANY CONSTRUCTION WORK. THE SITE-SPECIFIC BMP PLAN SHALL COMPLY WITH ARTICLE XII - TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL IN THE SPECIFICATIONS AND PROPOSAL DOCUMENT.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

PROJECT ARCHITECT FOR  
USHIJIMA ARCHITECTS, INC.  
APRIL 30, 2024  
EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR</b> KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII				
SHEET TITLE INDEX TO DRAWINGS, SITE MAP (LIMITS OF WORK PLAN), GENERAL NOTES				
DESIGNED BY:	TH			SHEET
DRAWN BY:	ET			<b>T-2</b>
CHECKED BY:	SU			
DATE:	JAN. 2023	JOB NUMBER	<b>S10846</b>	
SCALE:	AS NOTED			

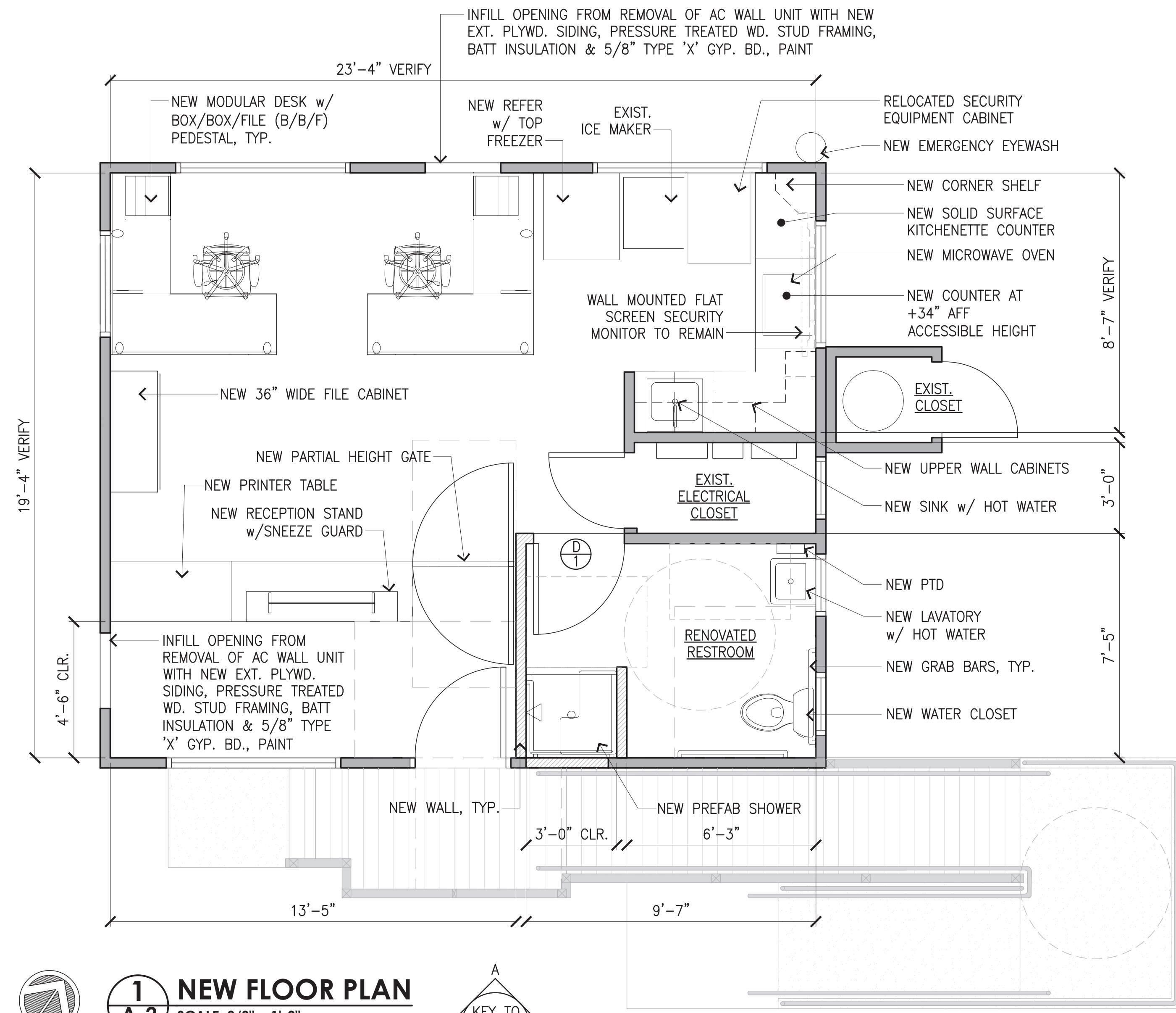


# GENERAL NOTES

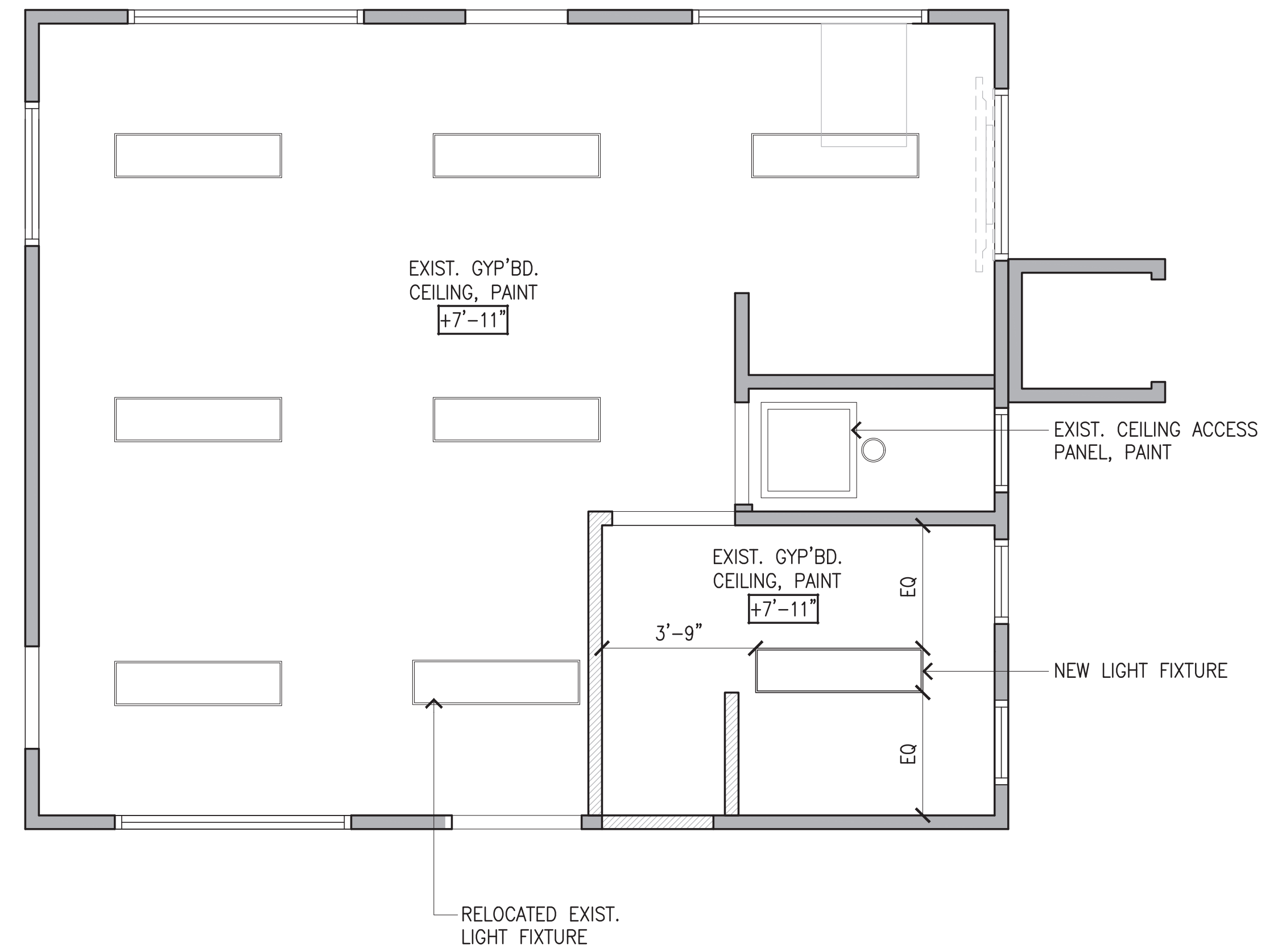
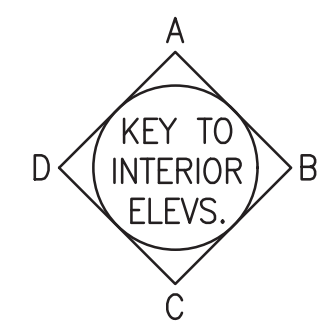
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS.

# LEGEND

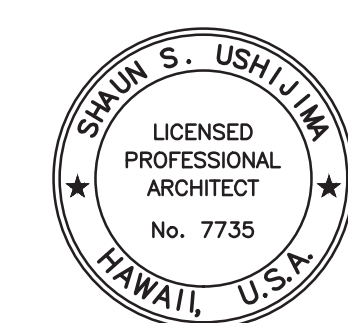
- DENOTES EXIST. WALLS TO REMAIN
- DENOTES NEW WALL STUD FRAMED WALLS & INFILLS, UNLESS OTHERWISE NOTED
- DOOR TYPE CALLOUT, SEE SHEET A104 FOR DOOR SCHEDULE & DETAILS.



**1 NEW FLOOR PLAN**  
A-2 SCALE: 3/8" = 1'-0"



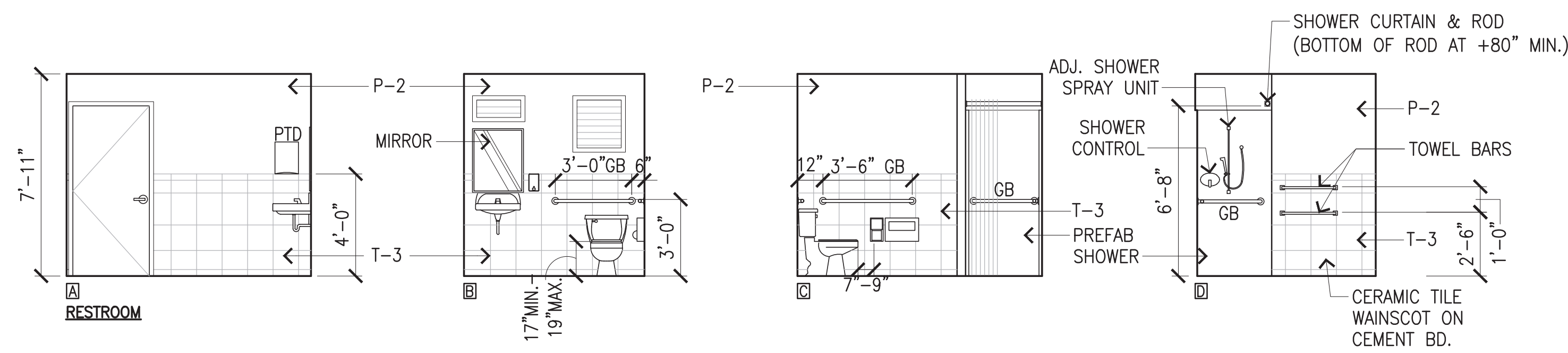
**2 NEW REFLECTED CEILING PLAN**  
A-2 SCALE: 3/8" = 1'-0"



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SHEET TITLE GENERAL NOTES, LEGEND, NEW FLOOR PLAN, NEW REFLECTED CEILING PLAN				
DESIGNED BY:	TH			SHEET
DRAWN BY:	ET			A-2
CHECKED BY:	SU			4 OF 16 SHETS
DATE:	JAN. 2023	JOB NUMBER	S10846	
SCALE:	AS NOTED			



**NOTES:**  
 INSTALLATION OF NEW MIRRORS TO COMPLY 2004 ADAAG SECTION 603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

A MINIMUM CLEAR DOOR OPENING WIDTH OF 32-INCH SHALL BE PROVIDED AT THE DOOR LEADING TO AN ACCESSIBLE TOILET COMPARTMENT. THIS CLEAR WIDTH SHALL BE MEASURED BETWEEN THE EDGE OF THE DOOR BUMPER/KEEPER AND THE FACE OF THE DOOR WHEN OPENED 90 DEGREES. DOOR SHALL BE SELF-CLOSING.

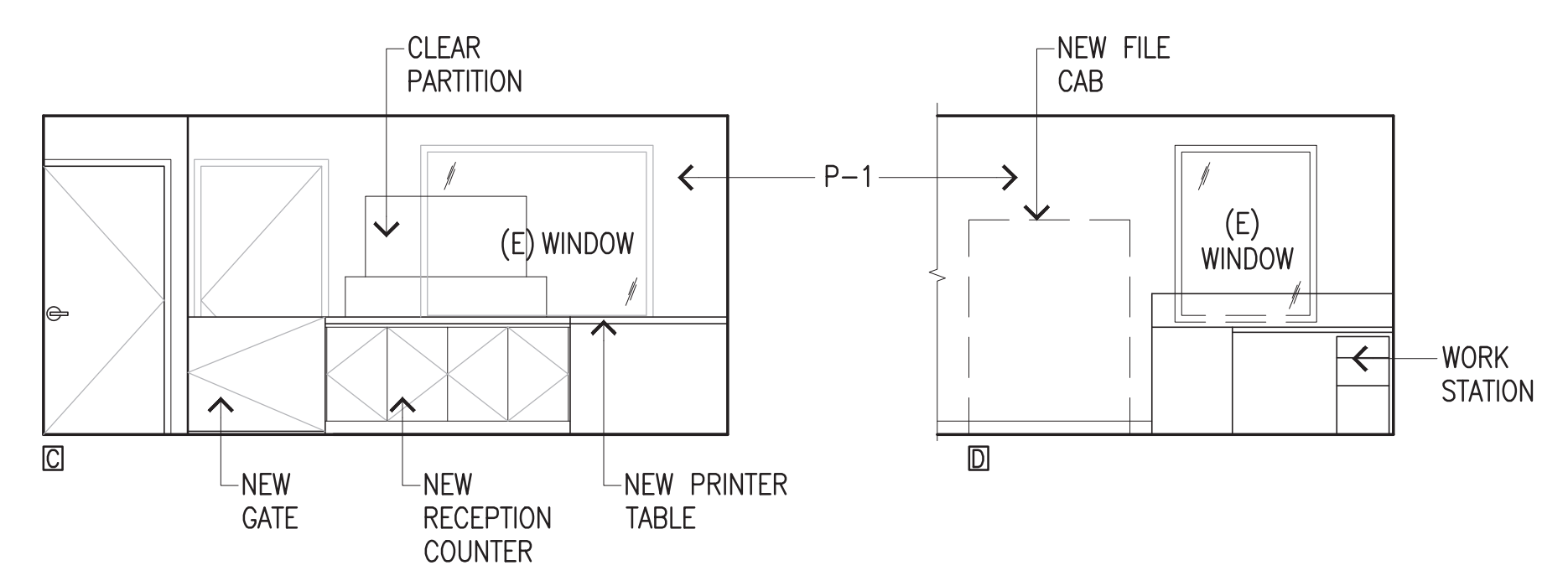
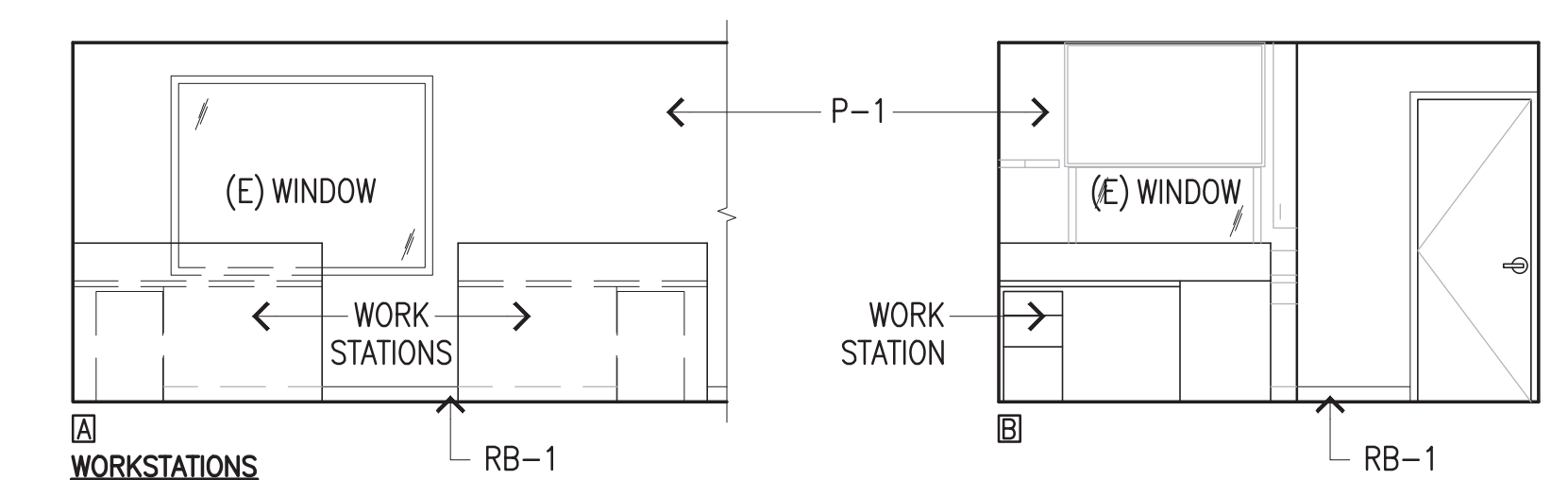
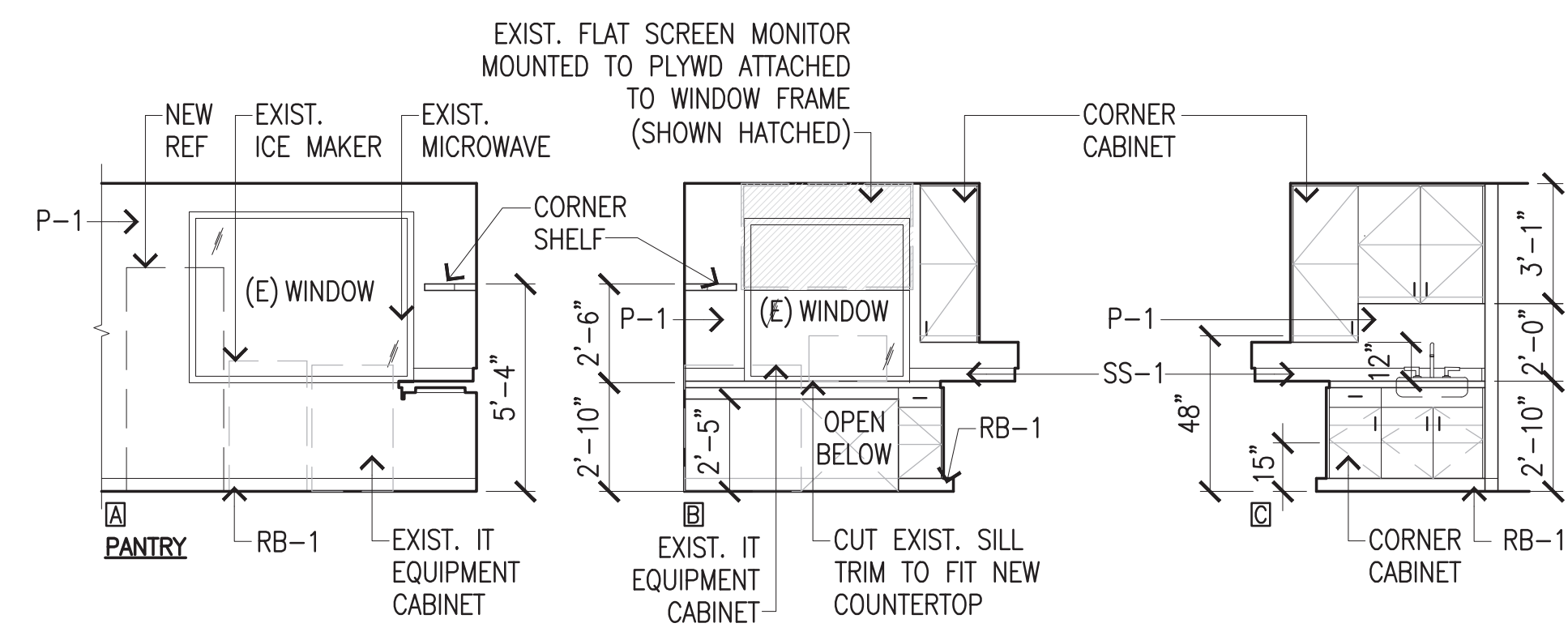
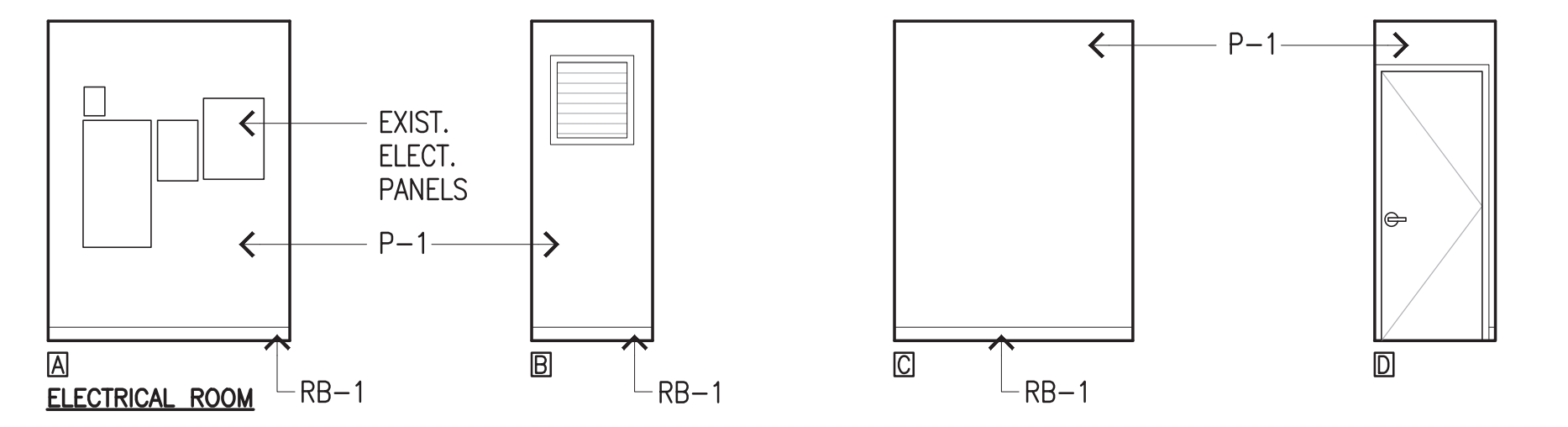
ADAAG 604.8.1.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH ADAAG 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42-INCHES MINIMUM. DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4-INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4-INCHES MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH ADAAG 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

ADAAG 609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES (840 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES (455 MM) MINIMUM AND 27 INCHES (685 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1.

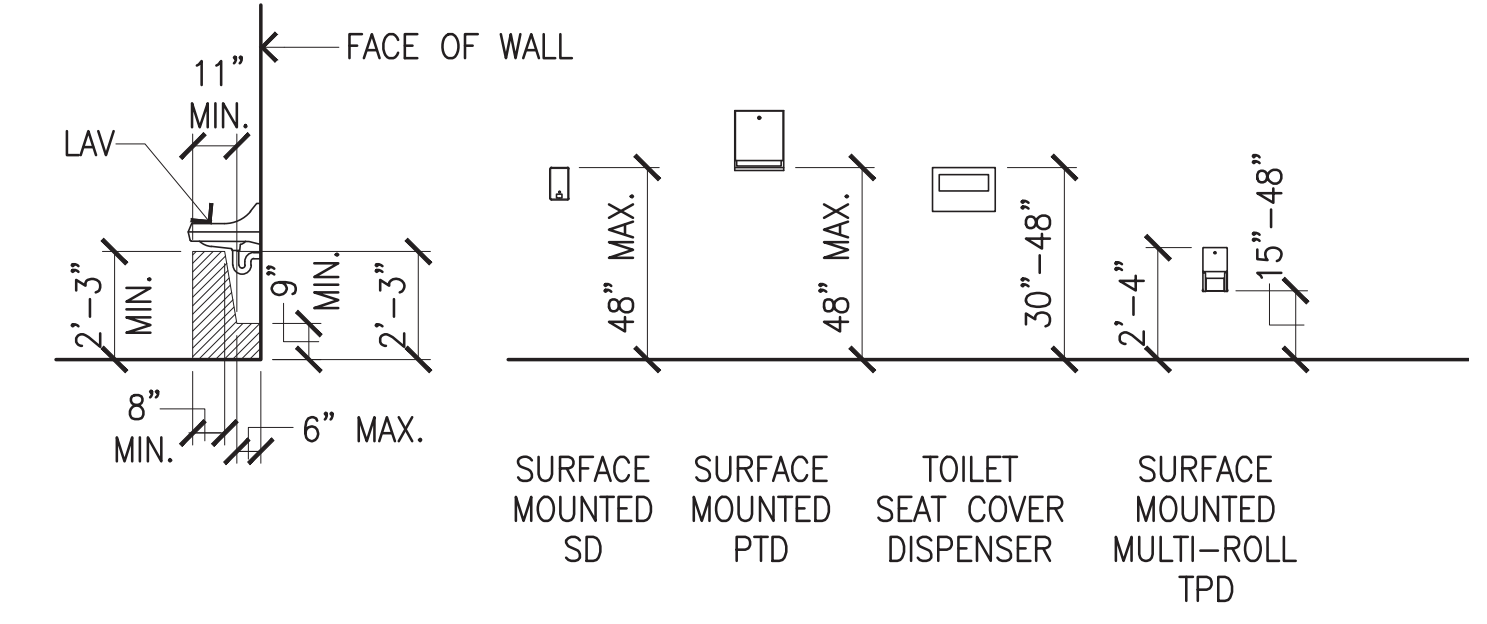
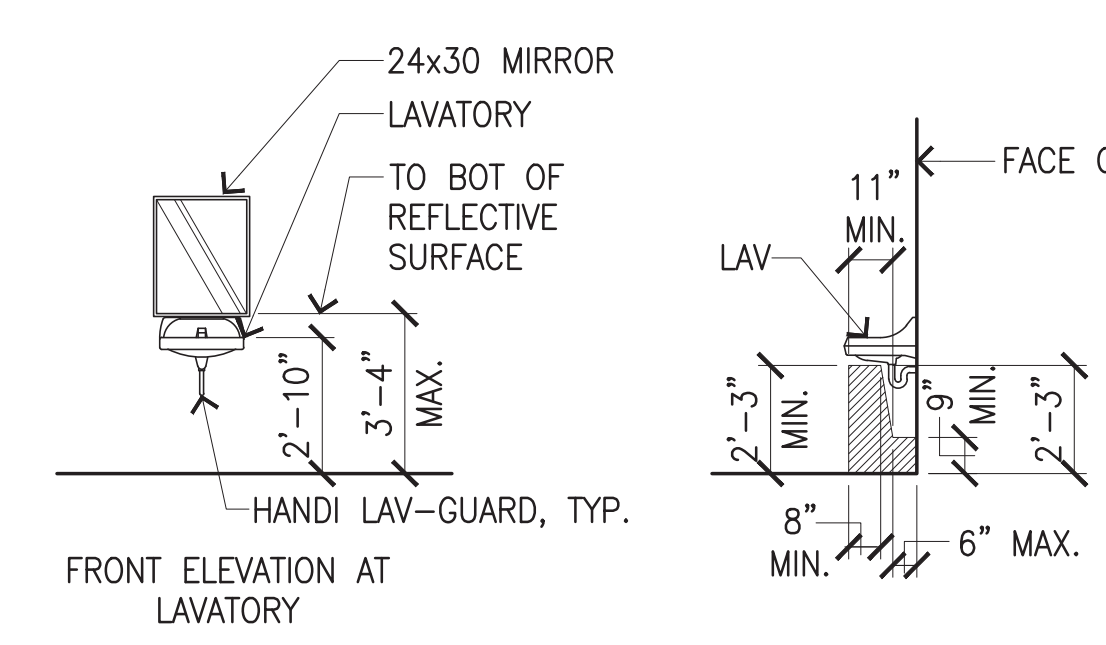
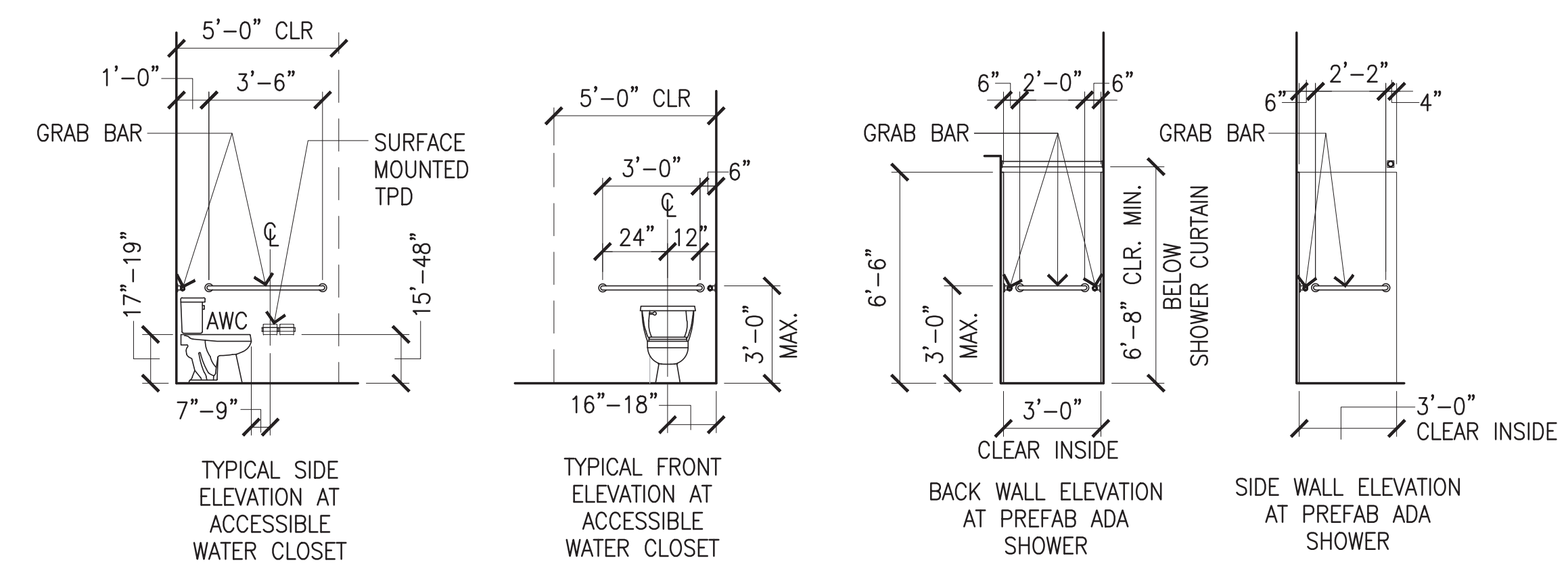
THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS, AND MOUNTING DEVICES ATTACHED TO PARTITIONS, STILES, AND PILASTERS SHALL BE IN ACCORDANCE WITH ADAAG 609.8.

DOOR HINGES: STAINLESS STEEL, MINIMUM 16 GAUGE, CONTINUOUS THE FULL HEIGHT OF THE DOOR, THROUGH-BOLTED TO THE DOOR AND STILE WITH TWELVE (12) THEFT-RESISTANT ONE-WAY STAINLESS STEEL SCREWS AT APPROXIMATELY 12-INCHES ON CENTER.

DOOR PULLS: HANDICAP ACCESSIBLE TOILET STALL DOORS SHALL BE FURNISHED WITH U-SHAPED DOOR PULLS COMPLYING WITH ADAAG 404.2.7 ON BOTH SIDES OF THE DOOR ADJACENT TO THE LATCH.



**1 INTERIOR ELEVATIONS**  
 A-3 SCALE: 1/4" = 1'-0"



**2 TYPICAL MOUNTING HEIGHTS**  
 A-3 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**  
 A. CONTRACTOR TO VERIFY ADA REQUIREMENTS PER MANUFACTURER AND 2004 ADAAG GUIDELINES.  
 B. PROVIDE BACKING/BLOCKING AS REQ'D.



SHAWN S. USHUKI, INC.  
 LICENSED PROFESSIONAL ARCHITECT  
 No. 7735  
 HAWAII, U.S.A.

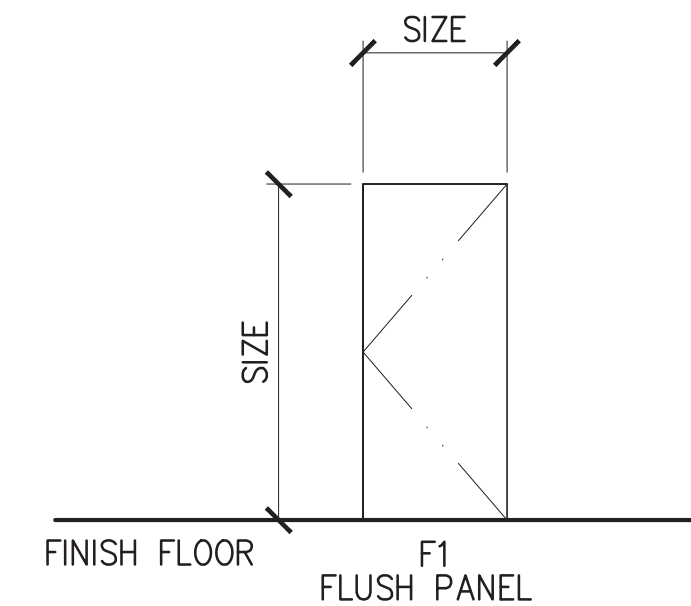
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PROJECT ARCHITECT FOR USHUKI ARCHITECTS, INC.  
 APRIL 30, 2024  
 EXPIRATION DATE OF LICENSE

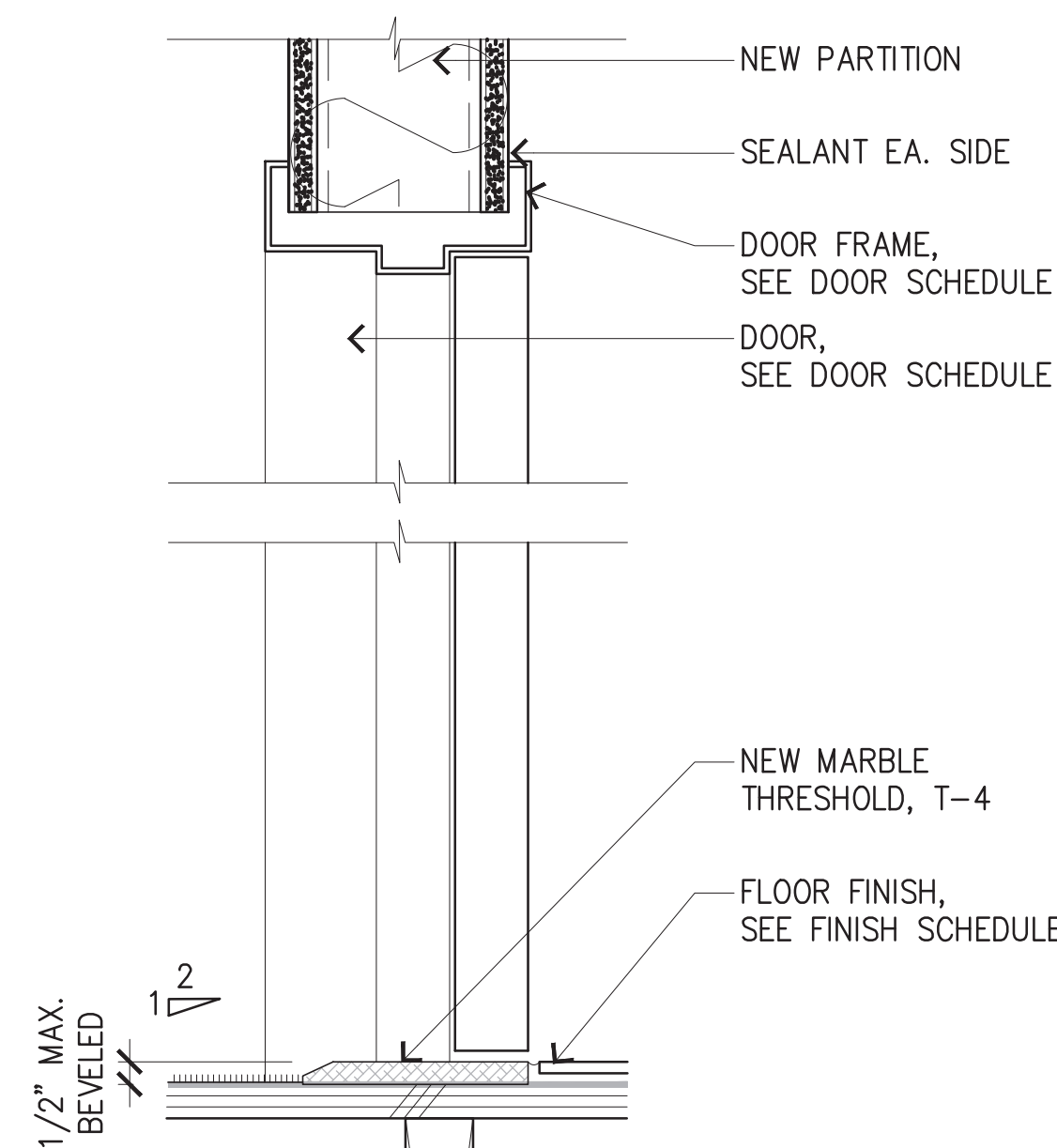
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SHEET TITLE INTERIOR ELEVATIONS, ACCESSIBILITY NOTES, TYPICAL MOUNTING HEIGHTS				
DESIGNED BY: TH				SHEET
DRAWN BY: ET				<b>A-3</b>
CHECKED BY: SU				
DATE: JAN. 2023	JOB NUMBER <b>S10846</b>			5 of 16 SHTS.
SCALE: AS NOTED				

DOOR SCHEDULE											
DOORS						FRAMES					
NUMBER	ROOM NAME	TYPE	SIZE (W X H)		MATERIAL	FINISH	DETAILS				
			WIDTH	HEIGHT			MATERIAL	FINISH	HEAD	JAMB	THRESHOLD
1	RESTROOM	F1	3'-0"	7'-0"	SC WD	STAIN	SC WD	PAINT	2/A-4	2/A-4	2/A-4

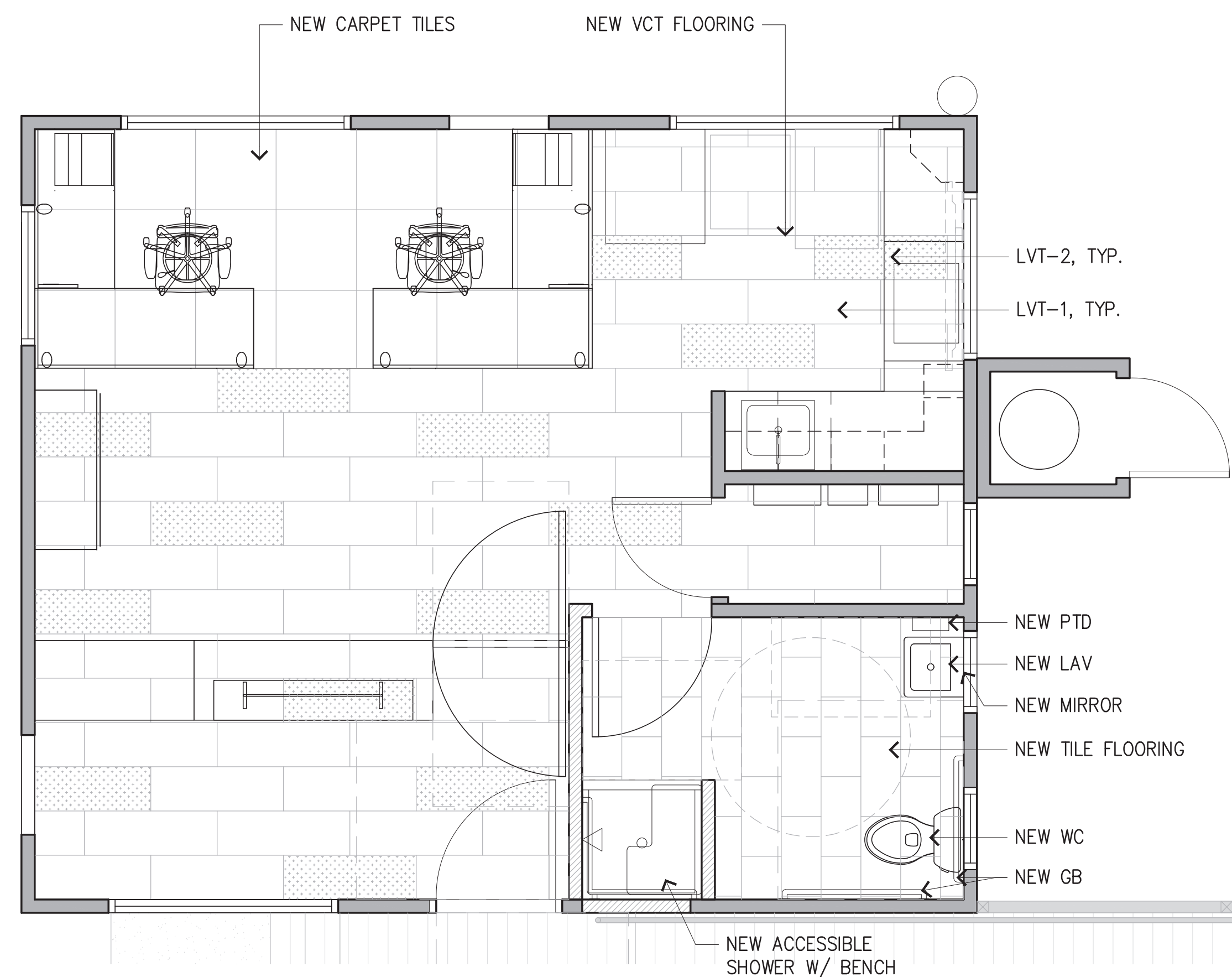
SC WD    SOLID CORE WOOD



**1 DOOR TYPE**  
A-4 SCALE: NTS



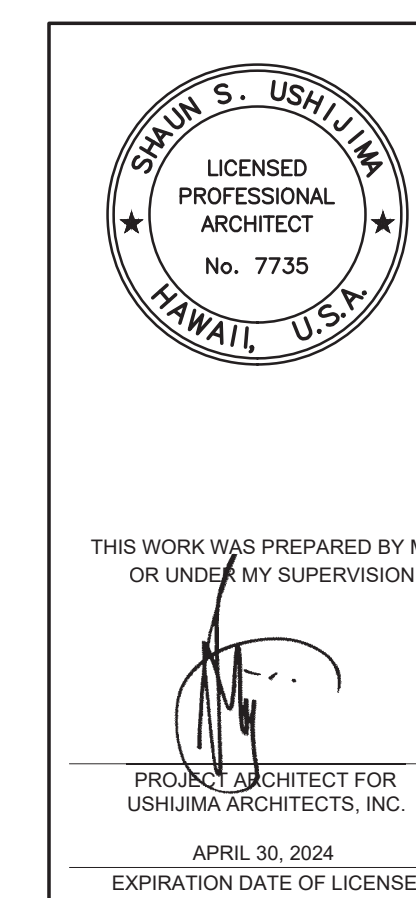
**2 HEADER/THRESHOLD**  
A-4 SCALE: 3" = 1'-0" HEAD, JAMB SIMILAR



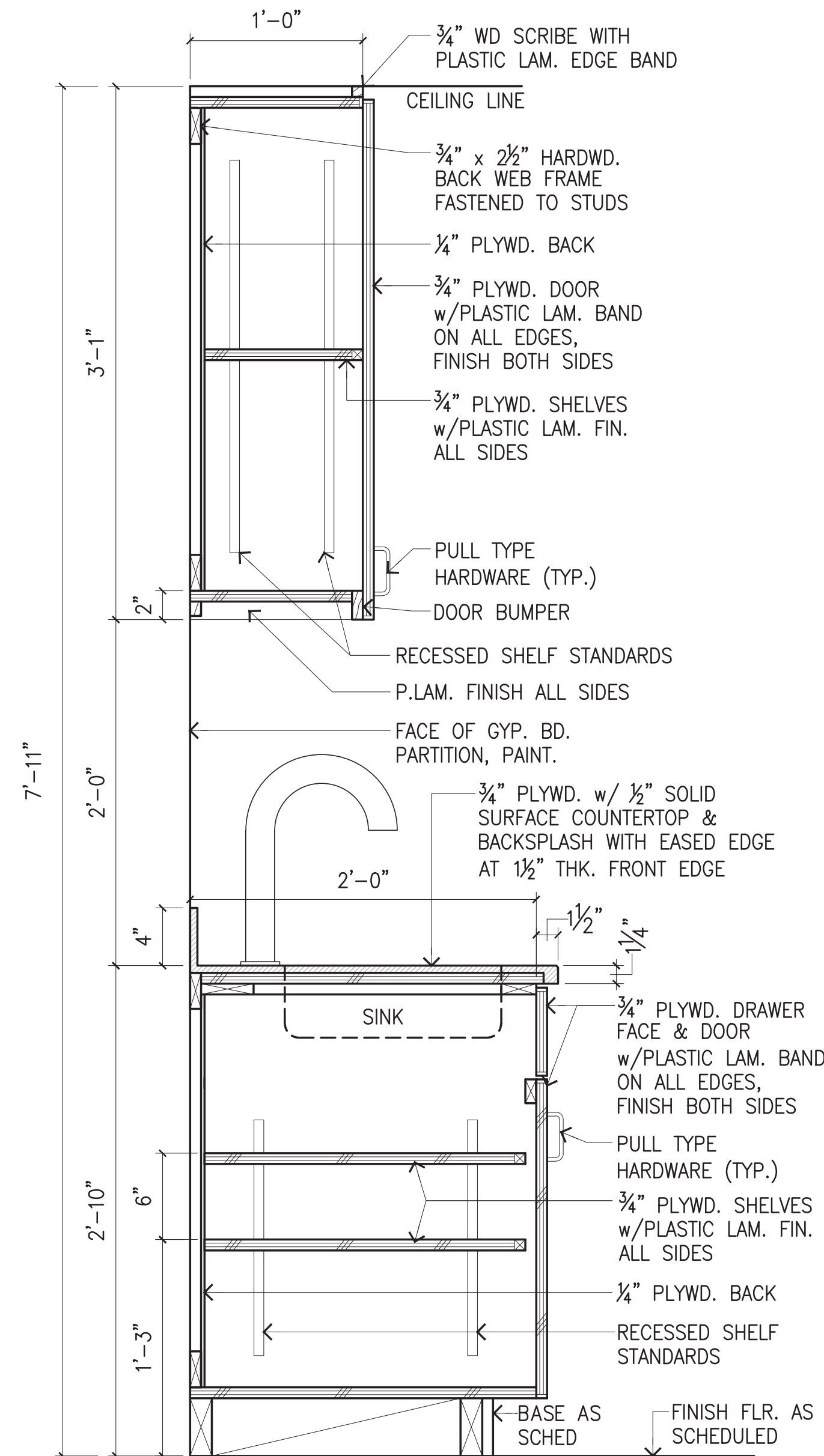
**3 NEW FINISH PLAN**  
A-4 SCALE: 3/8" = 1'-0"

MATERIAL LIST						
	DESCRIPTION	MANUFACTURER	PATTERN	COLOR/FINISH	SIZE	NOTES
<b>FLOOR</b>						
K-1	DESK STATIONS	J&J FLOORING	KINETEX - TRI-PLEX II	2293 DOG NIGHT	24"X24"	ASHLAR INSTALL
LVT-1	OFFICE/ELECT/PANTRY	J&J FLOORING	MAKE YOUR MARK	1063 SHADOW	9"X48"	FIELD, ASHLAR INSTALL
LVT-2	OFFICE/ELECT/PANTRY	J&J FLOORING	MAKE YOUR MARK	1066 SAPPHIRE	9"X48"	ACCENT, ASHLAR INSTALL
T-1	RESTROOM FLOORING	DALTILE	VOLUME 1.0	ELECTRIC MOSS	12"X24"	STAGGERED INSTALL, GROUT: LATICRETE STERLING SILVER 78
<b>BASE</b>						
RB-1	RUBBER BASE	JOHNSONITE	-	BURNT UMBER 63	4"	-
T-2	TILE BASE	DALTILE	COVE BASE	ELECTRIC MOSS	6"X12"	PROVIDE CORNER TRIMS
<b>WALL</b>						
T-3	RESTROOM WALL TILE	DALTILE	VOLUME 1.0	SONIC WHITE	12"X12"	PROVIDE BULLNOSE TRIM @ TOP, 4'-0" A.F.F. GROUT: LATICRETE SAUTERNE 18
P-1	FIELD PAINT	-	-	MATCH EXISTING	-	FINISH: MATCH EXISTING
P-2	RESTROOM PAINT	SHERWIN WILLIAMS	-	EXTRA WHITE SW7006	-	FINISH: SEMI-GLOSS
<b>CASEWORK</b>						
SS-1	SOLID SURFACE @ PANTRY	HIMACS	-	ARMADILLO	-	-
PL-1	PLASTIC LAMINATE CABINETS	WILSONART	-	SILVER OAK PLY	-	VERTICAL INSTALL
<b>CEILING</b>						
P-3	CEILING PAINT	-	-	MATCH EXISTING	-	CEILING TO BE FLAT FINISH
<b>MISC</b>						
T-4	MARBLE THRESHOLD	DALTILE	M701	CARRARA WHITE	-	SINGLE HOLLYWOOD BEVEL

FIXTURES & ACCESSORIES	
LAV	LAVATORY - KOHLER K-2031 WALL-MOUNT BATHROOM SINK
WC	EXISTING WATER CLOSET
TPD	TOILET PAPER DISPENSER - ASI 0697-GAL SURFACE MOUNTED SHELF AND DUAL TOILET PAPER HOLDER
SHWR	ACCESSIBLE SHOWER - AQUATIC 3636BFSC SHOWER STALL
PTD	PAPER TOWEL DISPENSER - BRADLEY 250-15 SURFACE MOUNTED TOWEL DISPENSER
MIR	MIRROR - BRADLEY 781-2430 STANDARD MODEL CHANNEL-FRAME MIRROR
GB	ACCESSIBLE GRAB BARS - WALL STAINLESS STEEL GRAB BARS WITH SNAP FLANGE, 1 1/4" (38MM) DIAMETER, BOBRICK #B-5806 SERIES. PROVIDE SIZE AS INDICATED
SINK	STAINLESS STEEL SINK - ELKAY ELUHAD211550PD SINGLE BOWL UNDERMOUNT
FAUCET	KITCHEN FAUCET - ELKAY LKHA4031 SINGLE HOLE WITH PULL DOWN SPRAY

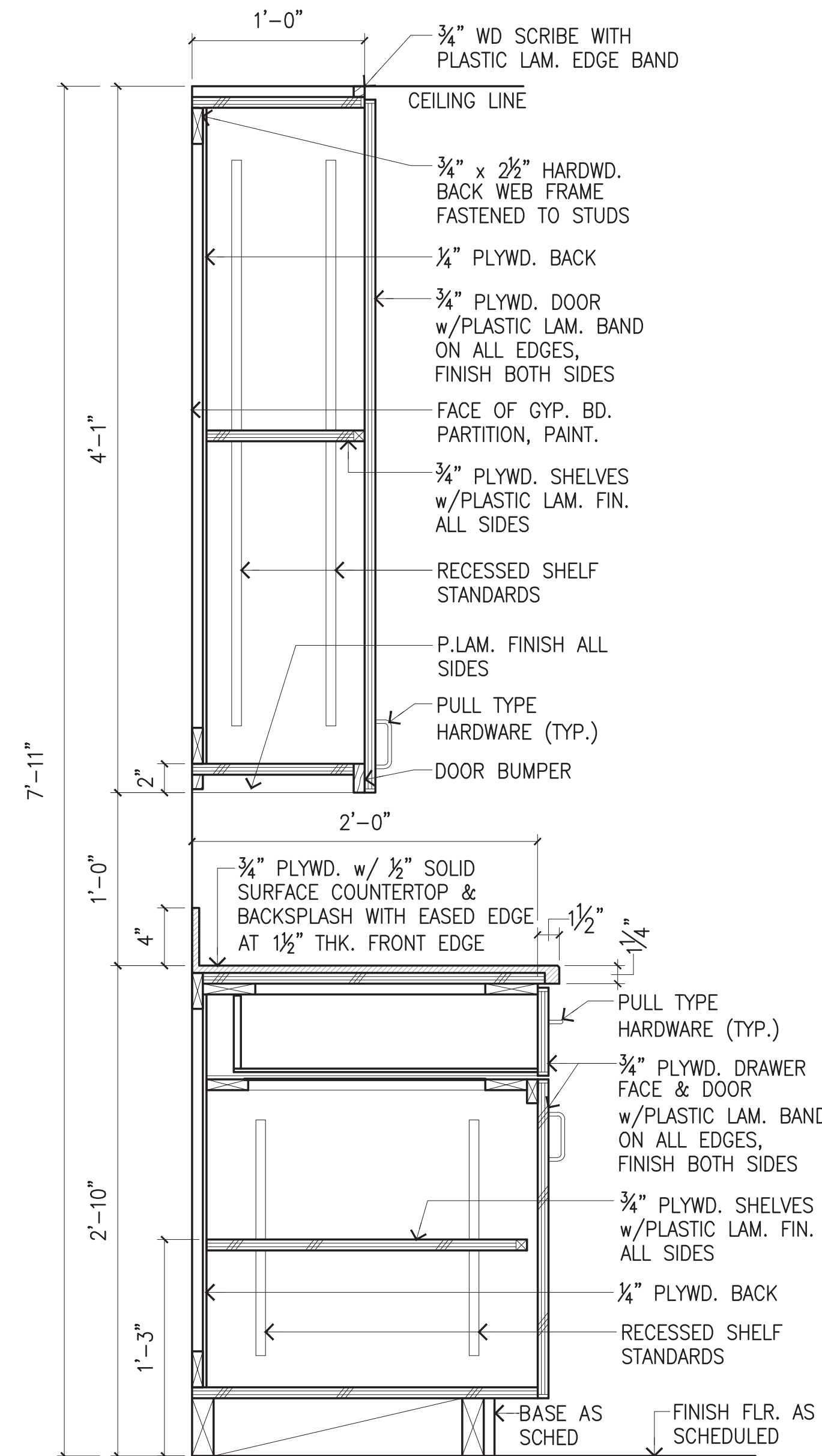


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SHEET TITLE DOOR SCHEDULE, DOOR TYPE & DETAILS, MATERIAL LIST, NEW FINISH PLAN, FIXTURES & ACCESSORIES SCHEDULE				
DESIGNED BY:	TH			SHEET
DRAWN BY:	ET			<b>A-4</b>
CHECKED BY:	SU			6 of 16 SHEETS
DATE:	JAN. 2023	JOB NUMBER	<b>S10846</b>	
SCALE:	AS NOTED			



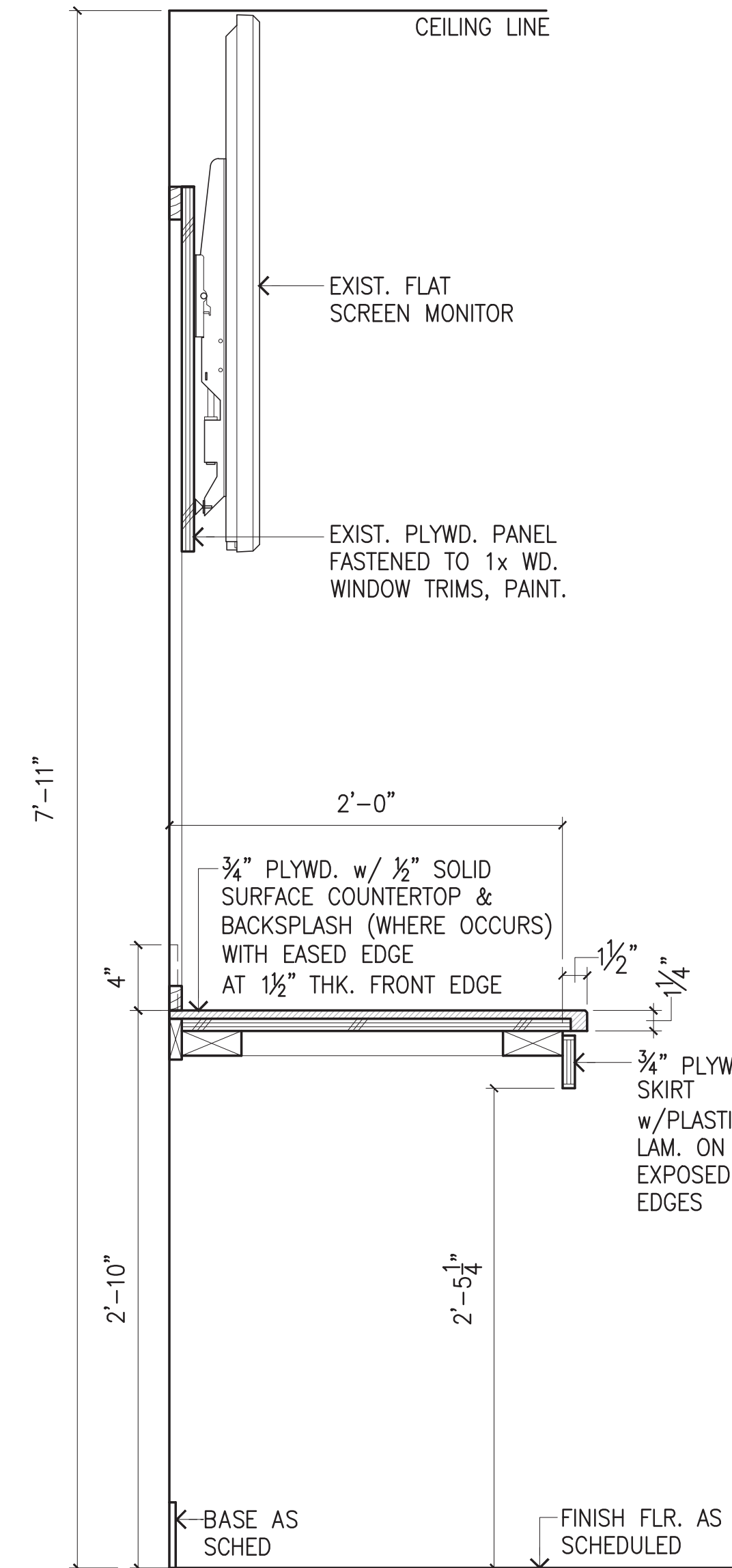
NOTE:  
INTERIOR OF CABINETS  
TO BE MELAMINE,  
COLOR TO BE SELECTED

**1 SECTION AT PANTRY SINK**  
A-5 SCALE: 3/8" = 1'-0"

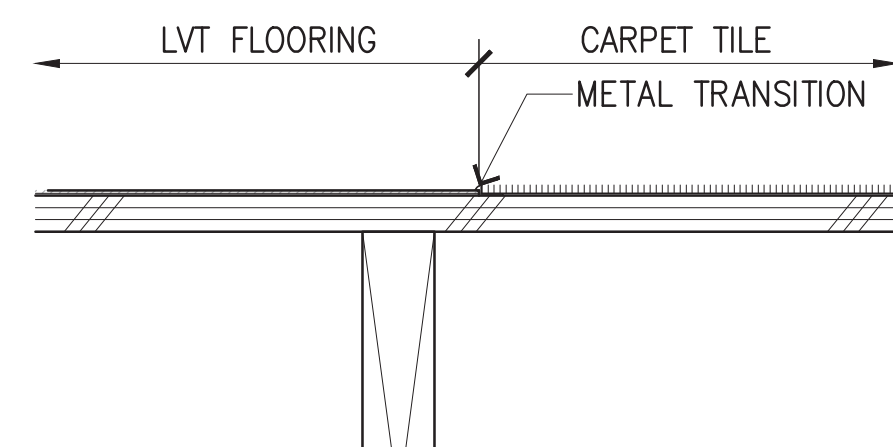


NOTE:  
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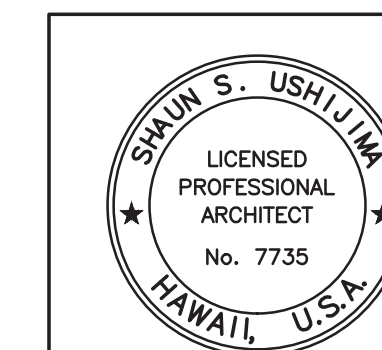
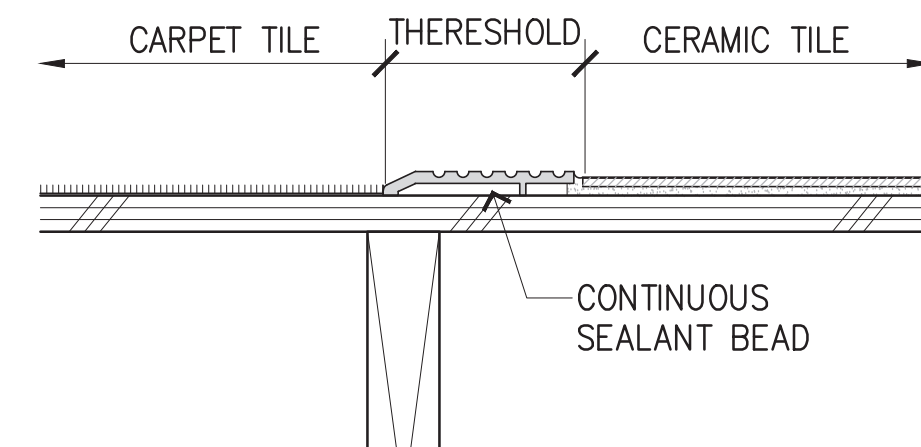
**2 SECTION AT PANTRY CABINETS**  
A-5 SCALE: 3/8" = 1'-0"



**3 SECTION AT PANTRY COUNTER**  
A-5 SCALE: 3/8" = 1'-0"



**4 FLOORING TRANSITIONS**  
A-5 SCALE: 3" = 1'-0"



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

PROJECT ARCHITECT FOR  
USHIJIMA ARCHITECTS, INC.

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DESIGNED BY:	TH			SHEET
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SCALE:	AS NOTED	<b>S10846</b>		7 of 16 SHEETS

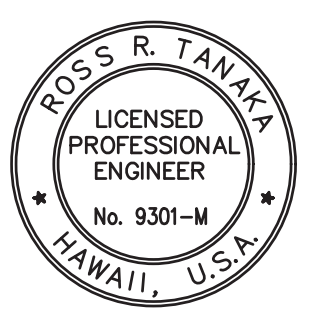

**GENERAL NOTES:**

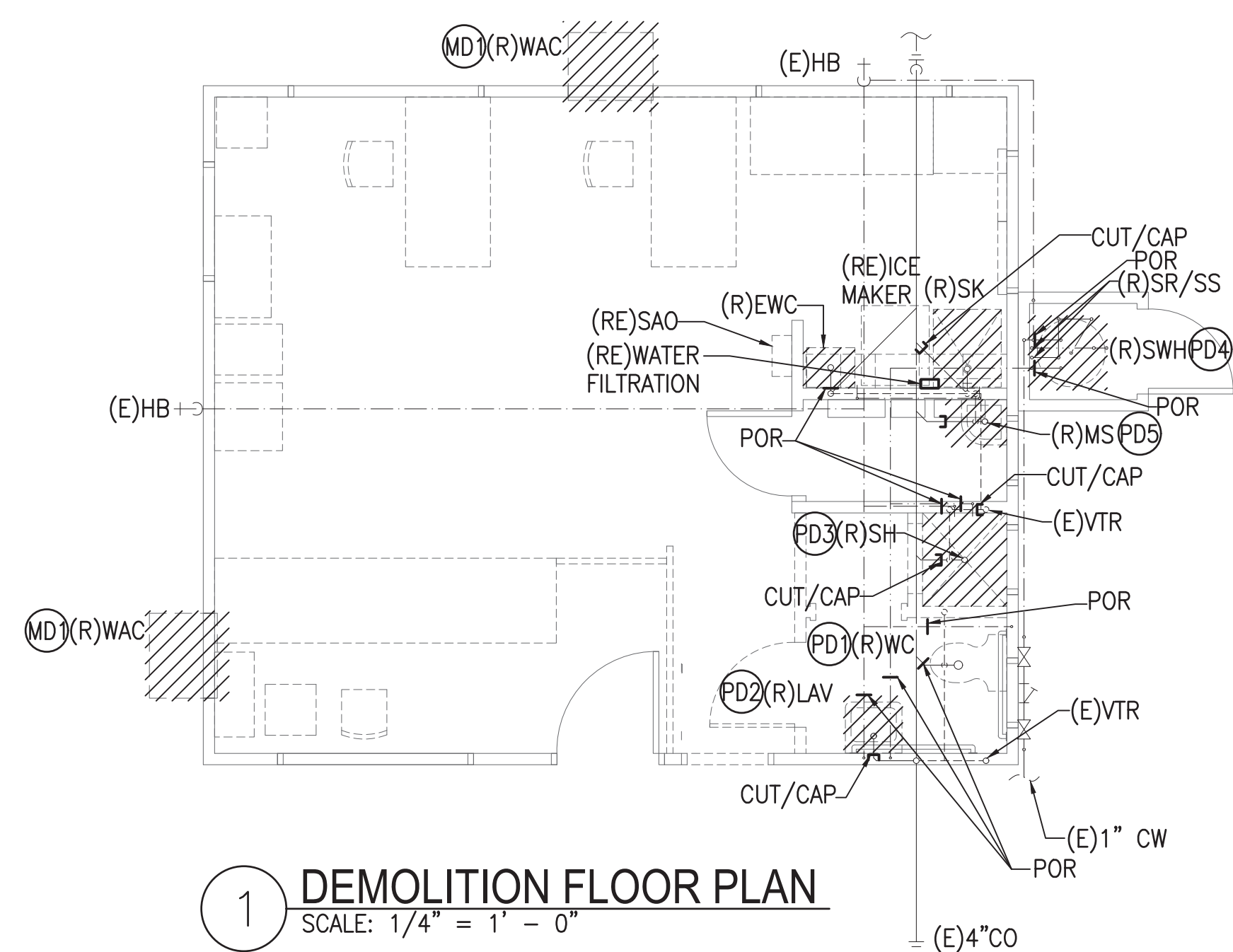
- CONFORM TO ALL REQUIREMENTS OF THE 2012 IBC, 2018 UPC, 2015 IECC, AND 2012 NFPA 1 CODES OF CITY AND COUNTY OF HONOLULU, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS, AND OTHER APPLICABLE REGULATIONS.
- EXAMINE ALL PROJECT PLANS AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE CONTRACTING OFFICER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
- INSTALLATION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR ONE YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LINE SIZES, CONDITIONS, AND INVERTS PRIOR TO BID AND CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL AT NO ADDITIONAL COST TO THE STATE.
- DRAWING FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OR ANY OTHER PURPOSE.
- CAULK ALL PENETRATIONS WATERTIGHT. PROVIDE ALL CUTTING, PATCHING, AND RESTORING OF EXISTING SURFACES TO MATCH ORIGINAL SURFACE FINISHES. SPOT PAINT TO MATCH EXISTING SURFACES/COLOR.
- PREPARE SHOP DRAWINGS, QUANTITY AS PER SPECS, SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO THE START OF WORK. NO REPRODUCTIONS OF ANY KIND OF THE CONTRACT DOCUMENTS SHALL BE ACCEPTABLE AS SHOP DRAWINGS. PROVIDE ONE SET OF REPRODUCIBLE AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITIONS AND SUBMIT TO THE STATE UPON COMPLETION OF WORK.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOTTED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT AND FIXTURES ARE TO BE INSTALLED PRIOR TO ORDERING OF ITEMS AND NOTIFY THE CONTRACTING OFFICER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND FIXTURES.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY EXACT DETAIL OF PIPING. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. REVIEW ALL PIPING RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY INTERFERENCES AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE CONTRACTING OFFICER FOR REVIEW/APPROVAL PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SUBMITTALS ARE TO BE PROVIDED AS A COMPLETE PACKAGE. PIECEMEAL SUBMITTALS WILL NOT BE REVIEWED AND RETURNED.
- COORDINATE ALL WORK WHICH WILL AFFECT AREAS NOT IN CONTRACT WITH THE CONTRACTING OFFICER AND HARBOR OFFICE. SCHEDULE OFF-HOUR WORK WHEN REQUIRED TO MINIMIZE DISRUPTIONS.
- ALL STEEL SHALL BE HOT DIPPED GALVANIZED. GALVANIZED STEEL EXPOSED TO WEATHER SHALL HAVE WEATHER PROOF PAINT TO MATCH SURFACES. PROVIDE TWO EXTRA COATS OF EPOXY PAINT.
- ALL ELECTRICAL AND CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE GALVANIZED STEEL PIPE CONDUIT FOR EXPOSED TO WEATHER CONDUIT.
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.
- SEISMICALLY BRACE ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH THE CURRENT BUILDING CODE AND THEIR RESPECTIVE SEISMIC ZONE LOCATIONS.
- LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED WORK PRIOR TO START OF WORK. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- PROVIDE DIELECTRIC UNIONS OR SEPARATIONS AT ALL DISSIMILAR METALS. PROVIDE UNIONS AFTER ALL SHUTOFF VALVES.
- ALL SWITCHES AND CONTROL ITEMS SHALL BE ADA ACCESSIBLE AND SHALL BE MOUNTED AT 44" AFF AS PER ADA REQUIREMENTS OR ACCORDING TO HARBOR OFFICE STAFF INSTRUCTIONS.
- COORDINATE ALL SWITCH LOCATIONS WITH HARBOR OFFICE STAFF PRIOR TO INSTALLATION TO AVOID INTERFERENCES WITH PAINTING, BULLETIN BOARDS, FURNITURE, ETC. ANY ITEM NOT PROPERLY COORDINATED SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE STATE.
- CONTRACTOR SHALL SCHEDULE, TAG, AND LABEL ALL VALVES AND PIPING. ALL PIPING SHALL ALSO BE LABELED WITH DIRECTION OF FLOW.
- ALL EXTERIOR NUTS, BOLTS, SCREWS, WASHERS, FASTENERS, SUPPORTS STRAPS, ETC. SHALL BE TYP 304 STAINLESS STEEL.

**MECHANICAL EQUIPMENT SCHEDULE**

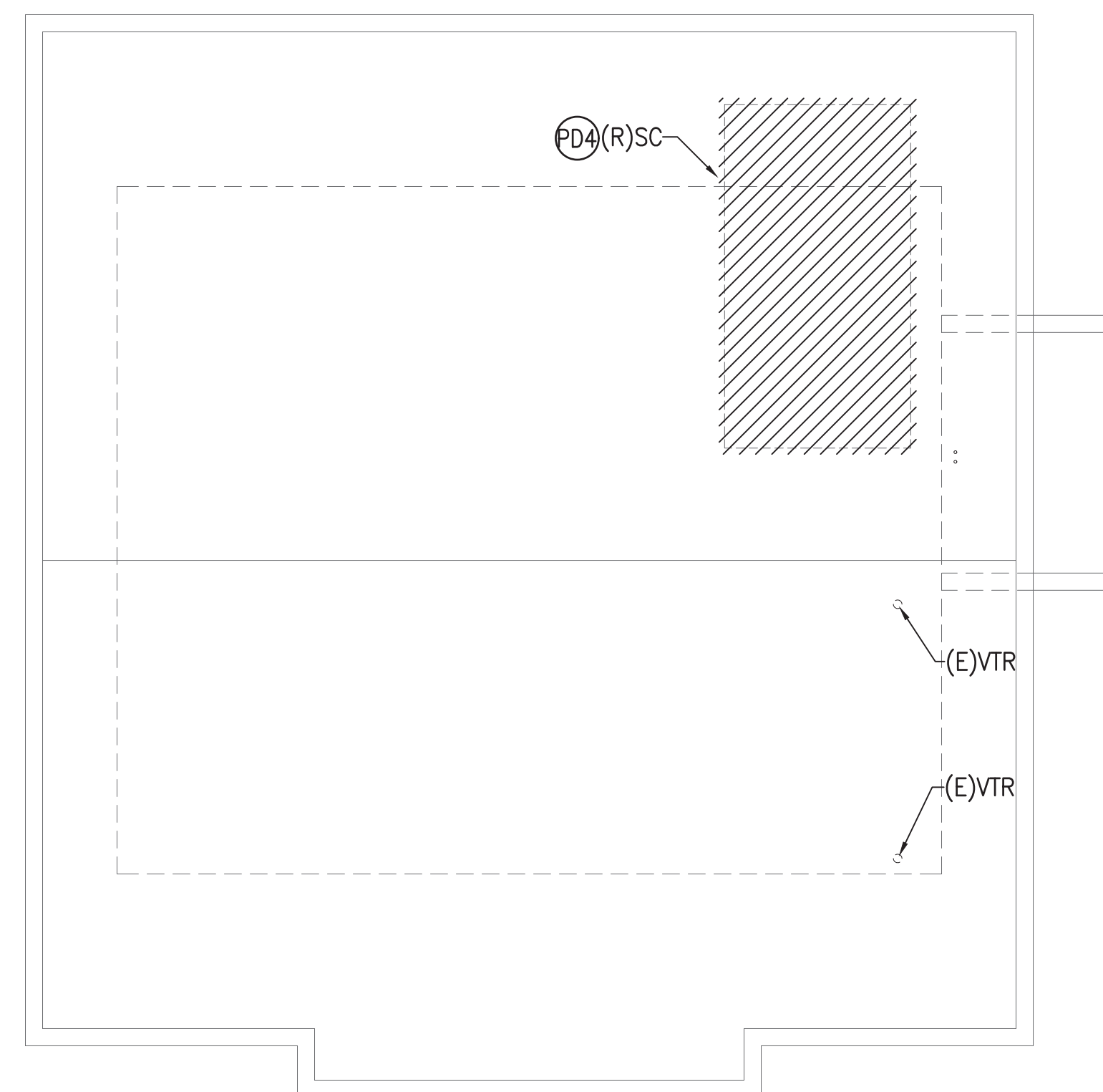
ALL OUTDOOR EQUIPMENT SHALL HAVE FACTORY APPLIED CORROSION INHIBITOR COATING ON CASING PROVIDE PHASE FAILURE/PHASE REVERSAL/OVER VOLTAGE/UNDER VOLTAGE ELECTRICAL PROTECTION PROVIDE CONTROL VOLTAGE TRANSFORMERS. PROVIDE NEMA 4, S.S ENCLOSURE FOR PUMP CONTROLLER.

LEGEND		
SYMBOL	ABBRV	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	ACCU	AIR COOLED CONDENSING UNIT
	BLW	BELOW
↻	CV	CHECK VALVE
	CLG	CEILING
	COTG	CLEANOUT TO GRADE
—————	CW	COLD WATER
	CD	CONDENSATE
	DN	DOWN
	(E)/EXIST'G	EXISTING
	FCO	FLOOR CLEANOUT
	FCU	FAN COIL UNIT
⊥	FLR	FINISHED FLOOR
	GND	GROUND
—————	HW	HOT WATER
	LAV	LAVATORY
	MS	MOP SINK
	(N)	NEW
	OBVD	OPOSED BLADE VOLUME DAMPER
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
	(R)	REMOVE
	(RE)	RE-LOCATE
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
—————	S	SANITARY
	SS	STAINLESS STEEL
⊘	SOV	SHUT OFF VALVE
	SH	SHOWER
	SC	SOLAR COLLECTOR
	SWH	SOLAR WATER HEATER
	TYP	TYPICAL
	V	VENT
	VTR	VENT THRU ROOF
	WC	WATER CLOSET
	WAC	WINDOW AIR CONDITIONER

 <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p>  <p>PROJECT MECHANICAL ENGINEER</p> <p>APRIL 30, 2024 EXPIRATION DATE OF LICENSE</p>	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII				
	SHEET TITLE GENERAL NOTES, LEGEND				
DESIGNED BY: MEI				SHEET	
DRAWN BY: MEI				<b>M-1</b>	
CHECKED BY: RRT					
DATE: JAN. 2023	JOB NUMBER			<b>S10846</b>	
SCALE: AS NOTED					
8 of 16 SHEETS					



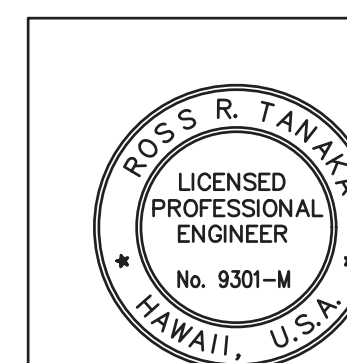
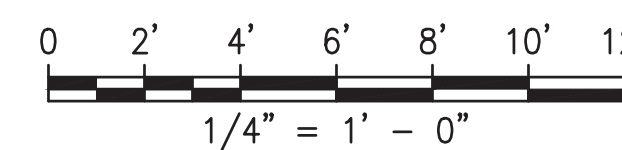
**1 DEMOLITION FLOOR PLAN**  
SCALE: 1/4" = 1' - 0"



**2 DEMOLITION ROOF PLAN**  
SCALE: 1/4" = 1' - 0"

**DEMOLITION NOTES**

- (PD1) REMOVE EXISTING WATER CLOSET COMPLETE. INCLUDING, BUT NOT LIMITED TO BOWL, TANK, ESCUTCHEONS, SUPPLY STOPS, FLANGE, ETC. PATCH/REPAIR FLOORS/WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (PD2) REMOVE EXISTING LAVATORY COMPLETE. INCLUDING, BUT NOT LIMITED TO BOWL, P-TRAP, ESCUTCHEONS, SUPPLY STOPS, ETC. PATCH/REPAIR WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (PD3) REMOVE EXISTING SHOWER COMPLETE. INCLUDING, BUT NOT LIMITED TO DRAIN, P-TRAP, SHOWER TRIM KIT, SHOWER HEAD, ETC. PATCH/REPAIR WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (PD4) REMOVE SOLAR WATER HEATER COMPLETE. INCLUDING, BUT NOT LIMITED TO PIPING, RECIRC PUMP, SOLAR COLLECTOR, ASSOCIATED ACCESSORIES, ETC. PATCH AND REPAIR WALLS/ROOF TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (PD5) REMOVE EXISTING MOP SINK COMPLETE. INCLUDING, BUT NOT LIMITED TO MOP BASIN, DRAIN, P-TRAP, ETC. CUT/CAP SANITARY, AND VENT PIPING AS SHOWN IN PLUMBING DEMOLITION FLOOR PLAN. PATCH/REPAIR FLOOR/WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (MD1) REMOVE EXISTING WINDOW AC COMPLETE. INCLUDING, BUT NOT LIMITED TO AC UNIT, FRAME, SUPPORTS, ETC. PATCH/REPAIR WALL AND WINDOWS TO MATCH EXISTING. REFER TO ARCHITECTURE DRAWINGS FOR WINDOW SCHEDULE. CONTRACTOR TO FIELD VERIFY.

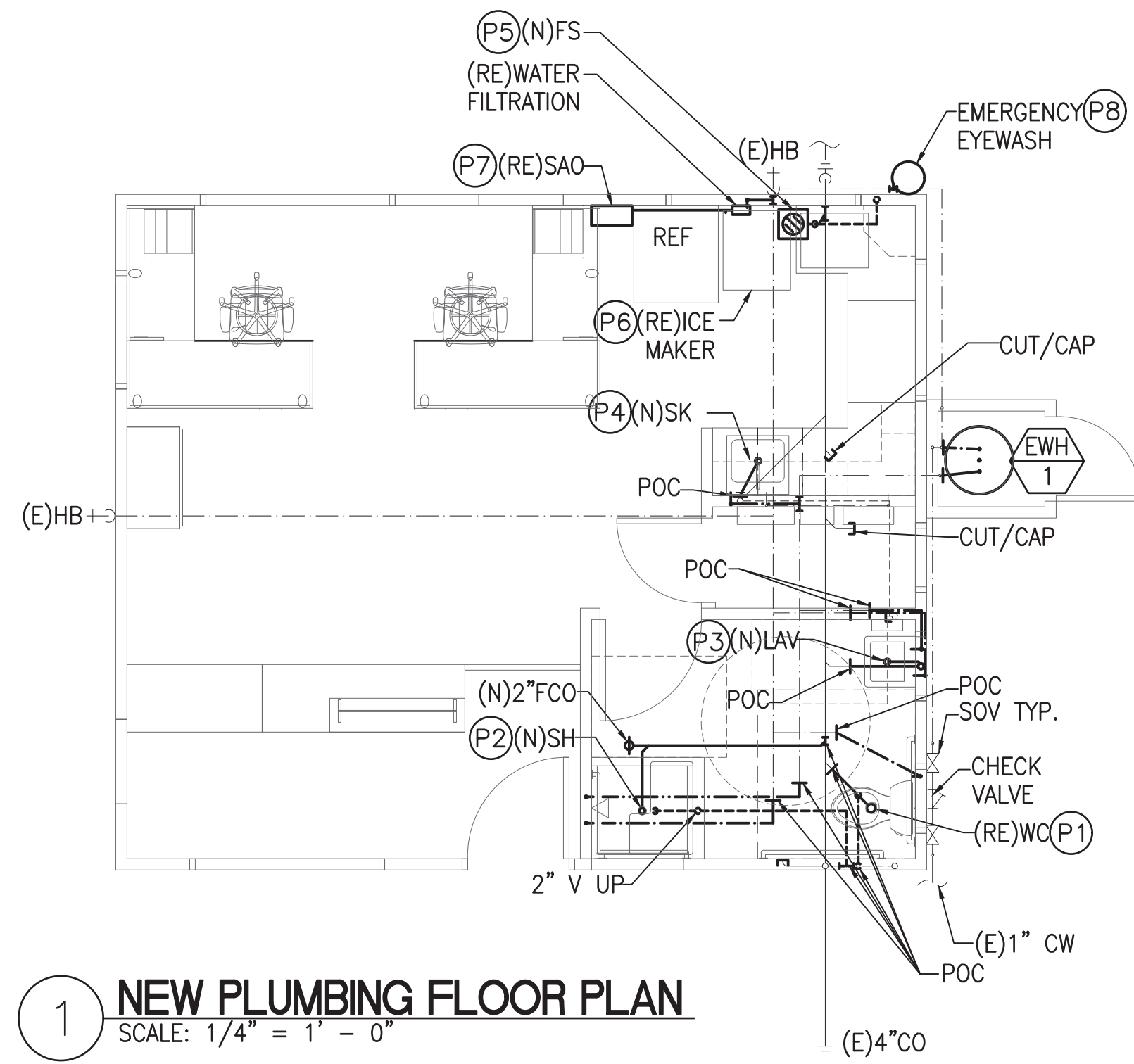


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*Ross R. Tanka*  
PROJECT MECHANICAL ENGINEER

APRIL 30, 2024  
EXPIRATION DATE OF LICENSE

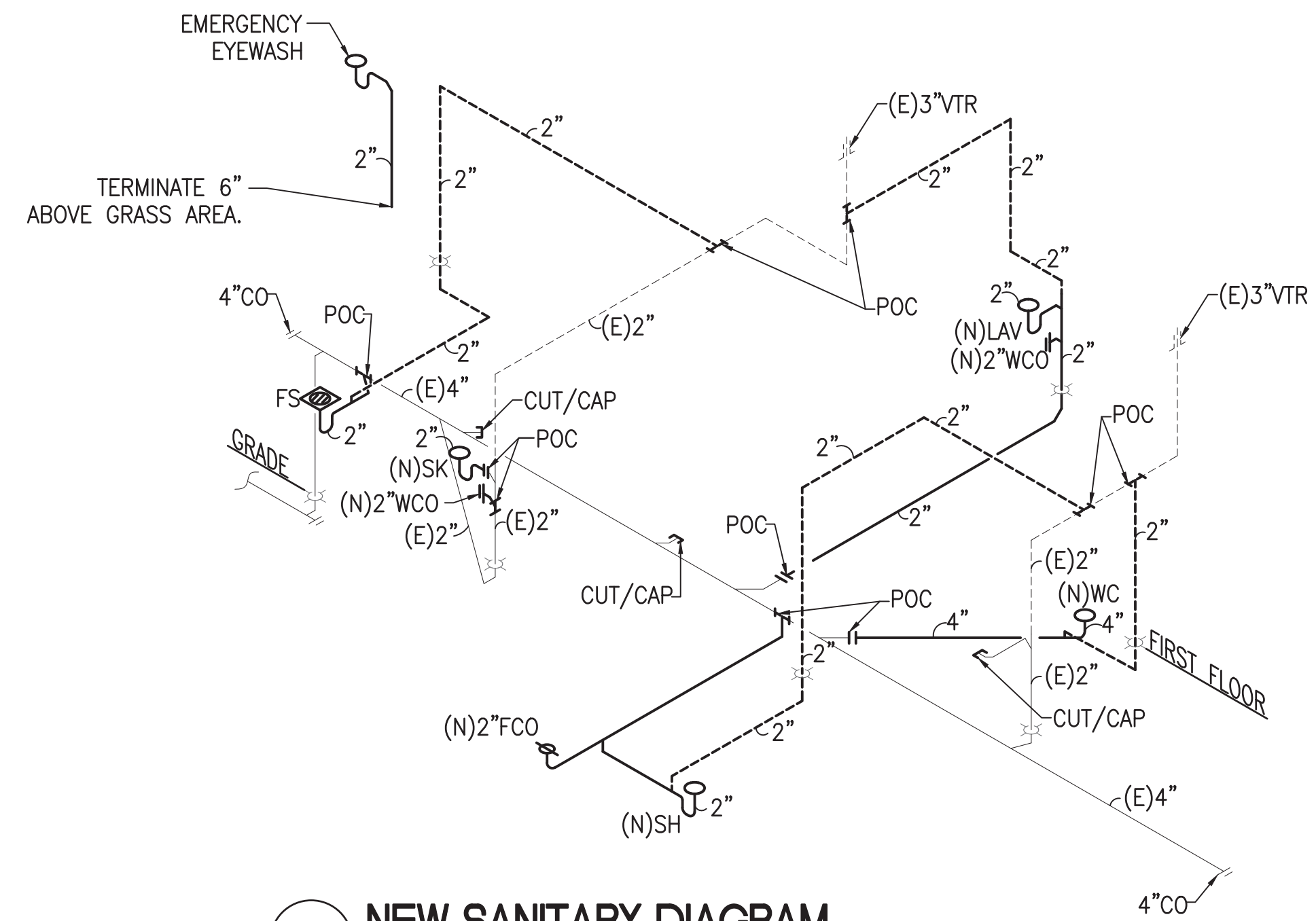
REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR</b> KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII				
SHEET TITLE <b>DEMOLITION FLOOR PLAN</b>				
DESIGNED BY:	MEI			SHEET
DRAWN BY:	MEI			<b>M-2</b>
CHECKED BY:	RRT			9 of 16 SHEETS
DATE:	JAN. 2023	JOB NUMBER	<b>S10846</b>	
SCALE:	AS NOTED			



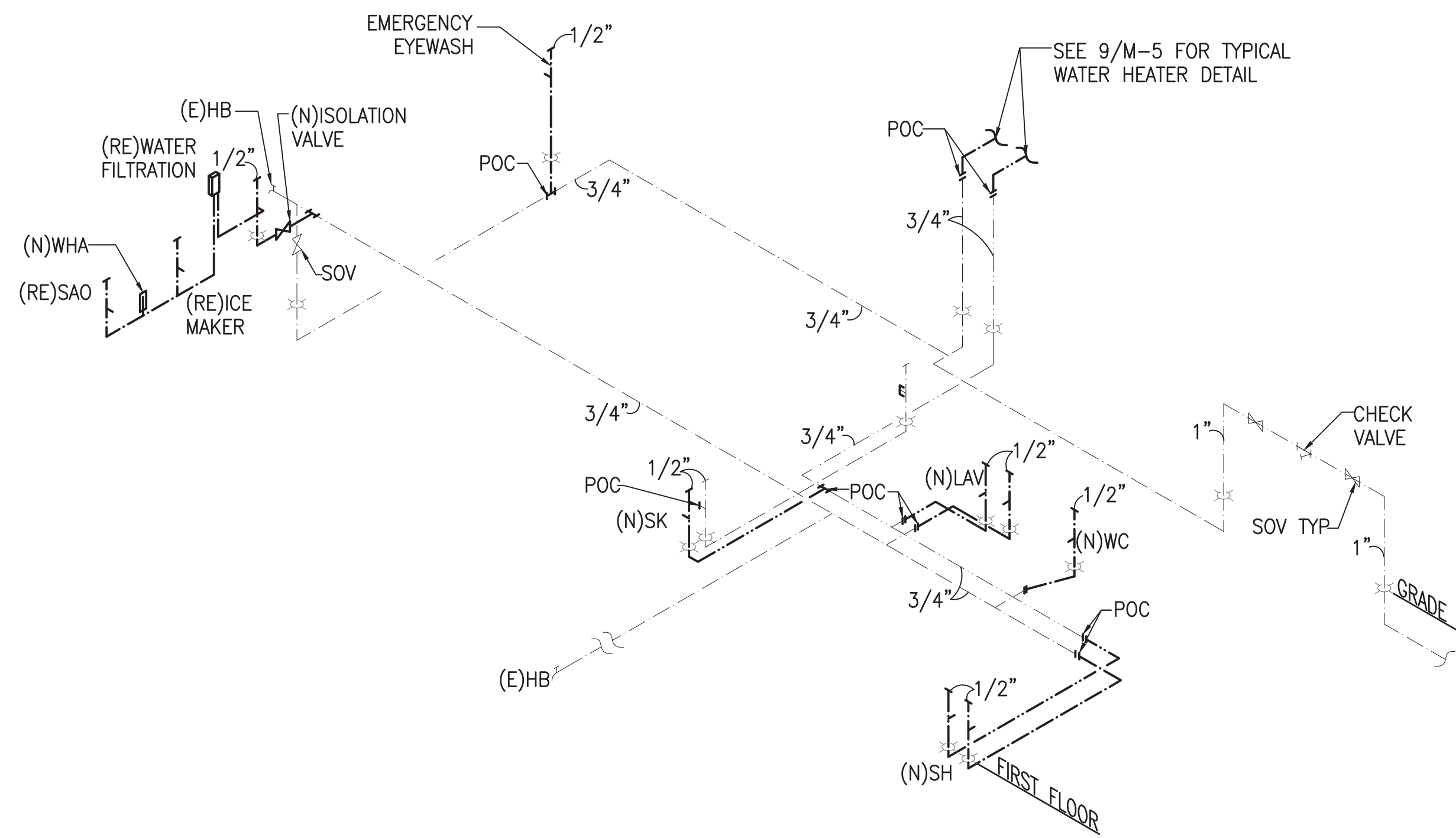
**1 NEW PLUMBING FLOOR PLAN**  
SCALE: 1/4" = 1' - 0"

**NEW PLUMBING NOTE:**

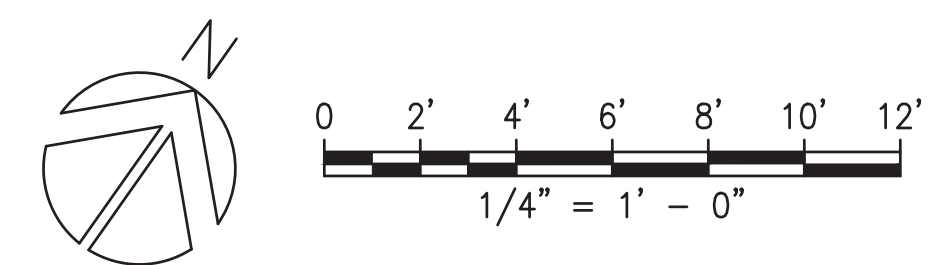
- (P1) PROVIDE AND INSTALL NEW WATER CLOSET COMPLETE. PROVIDE NEW BOWL, TANK, SUPPLY STOP, SUPPLY TUBING, WAX GASKET, FLANGE, ESCUTCHEON, AND ASSOCIATED ACCESSORIES. PROVIDE NEW SANITARY, WATER, AND VENT PIPING AS SHOWN IN NEW PLUMBING PLAN UP TO POC. PATCH/REPAIR FLOORS AND WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (P2) PROVIDE AND INSTALL NEW SHOWER COMPLETE. PROVIDE NEW SHOWER DRAIN, VALVE KIT, TRIM KIT, SHOWER HEAD, P-TRAP, AND ASSOCIATED ACCESSORIES. PROVIDE NEW SANITARY, WATER, AND VENT PIPING AS SHOWN IN NEW PLUMBING FLOOR PLAN UP TO POC. PATCH/REPAIR WALLS, AND FLOORS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (P3) PROVIDE AND INSTALL NEW LAVATORY COMPLETE. PROVIDE NEW BOWL, P-TRAP, SUPPLY STOPS, SUPPLY TUBING, ESCUTCHEONS, FAUCET, AND ASSOCIATED ACCESSORIES. PROVIDE NEW SANITARY, WATER, AND VENT PIPING AS SHOWN IN NEW PLUMBING FLOOR PLAN UP TO POC. PATCH/REPAIR FLOORS, WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (P4) PROVIDE AND INSTALL NEW SINK COMPLETE. PROVIDE NEW FAUCET, P-TRAP, ESCUTCHEON, SUPPLY STOPS, SUPPLY TUBING, ETC. PROVIDE NEW SANITARY, VENT, AND WATER PIPING AS REQUIRED UP TO POC AS SHOWN IN NEW PLUMBING PLAN. PATCH/REPAIR WALLS AND FLOORS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (P5) PROVIDE AND INSTALL NEW FLOOR SINK COMPLETE. PROVIDE NEW SANITARY, AND VENT PIPING AS SHOWN IN NEW PLUMBING PLAN. PATCH/REPAIR WALLS, FLOORS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (P6) RE-INSTALL EXISTING ICE MAKER COMPLETE. PROVIDE NEW WATER PIPING FROM WATER FILTRATION SYSTEM AS REQUIRED. PROVIDE NEW SANITARY PIPING TO NEW FLOOR SINK AS SHOWN IN NEW PLUMBING PLAN. CONTRACTOR TO FIELD VERIFY.
- (P7) RE-INSTALL SAO COMPLETE. PROVIDE NEW WATER PIPING FROM WATER FILTRATION SYSTEM AS REQUIRED TO SAO. CONTRACTOR TO FIELD VERIFY.
- (P8) PROVIDE AND INSTALL NEW EMERGENCY EYEWASH COMPLETE. INCLUDING, BUT NOT LIMITED TO WALL BRACKET MOUNT, STAINLESS STEEL BOWL, FLAG HANDLE, STAY-OPEN BALL VALVE, AND ASSOCIATED ACCESSORIES. PROVIDE NEW 1/2" WATER PIPING AS SHOWN ON PLAN. PROVIDE NEW PVC SANITARY PIPING FROM EMERGENCY EYEWASH CONNECTION TO TERMINATE 6" ABOVE GRADE INTO GRASS AREA. CONTRACTOR TO FIELD VERIFY.



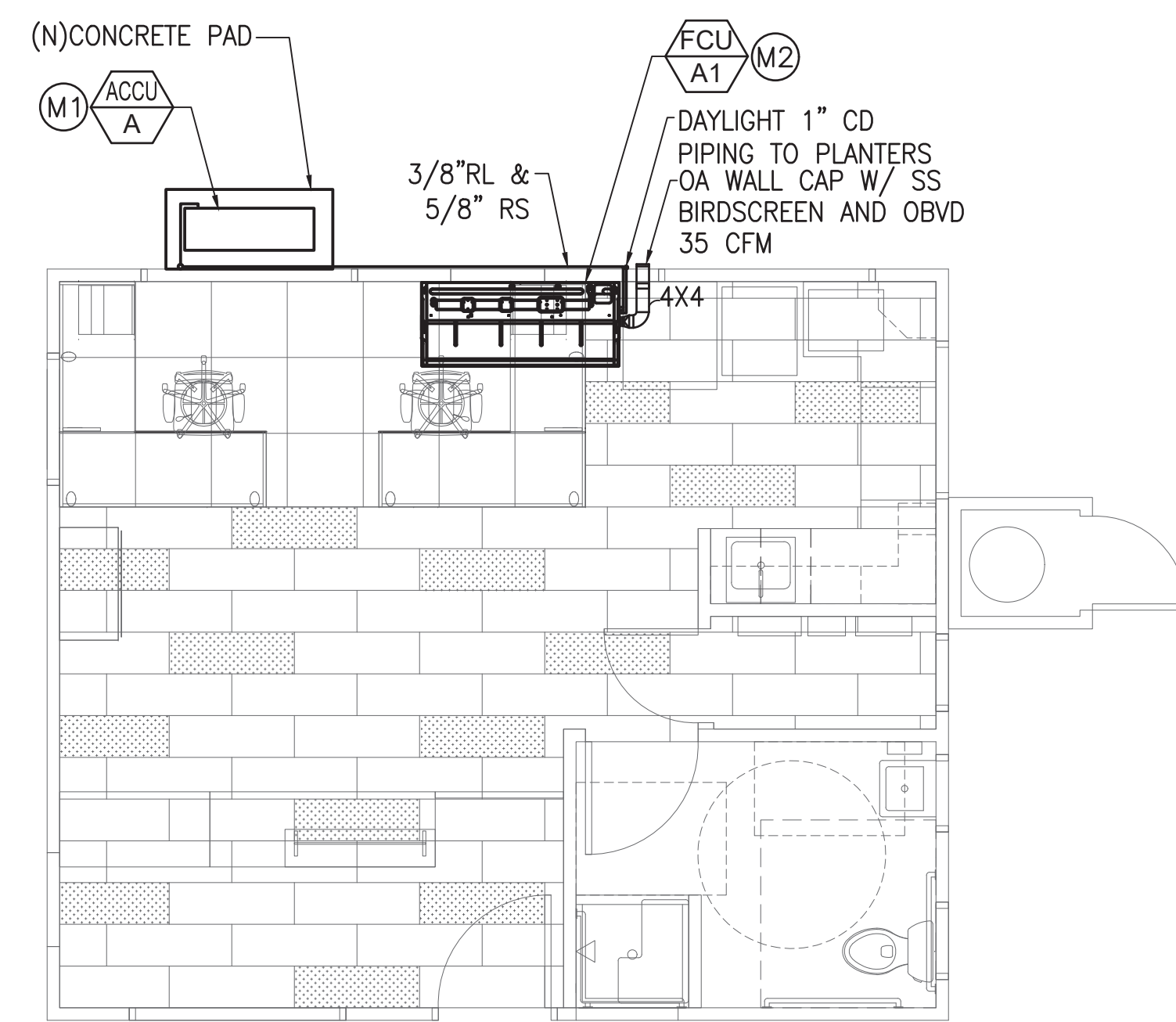
**2 NEW SANITARY DIAGRAM**  
SCALE: NOT TO SCALE



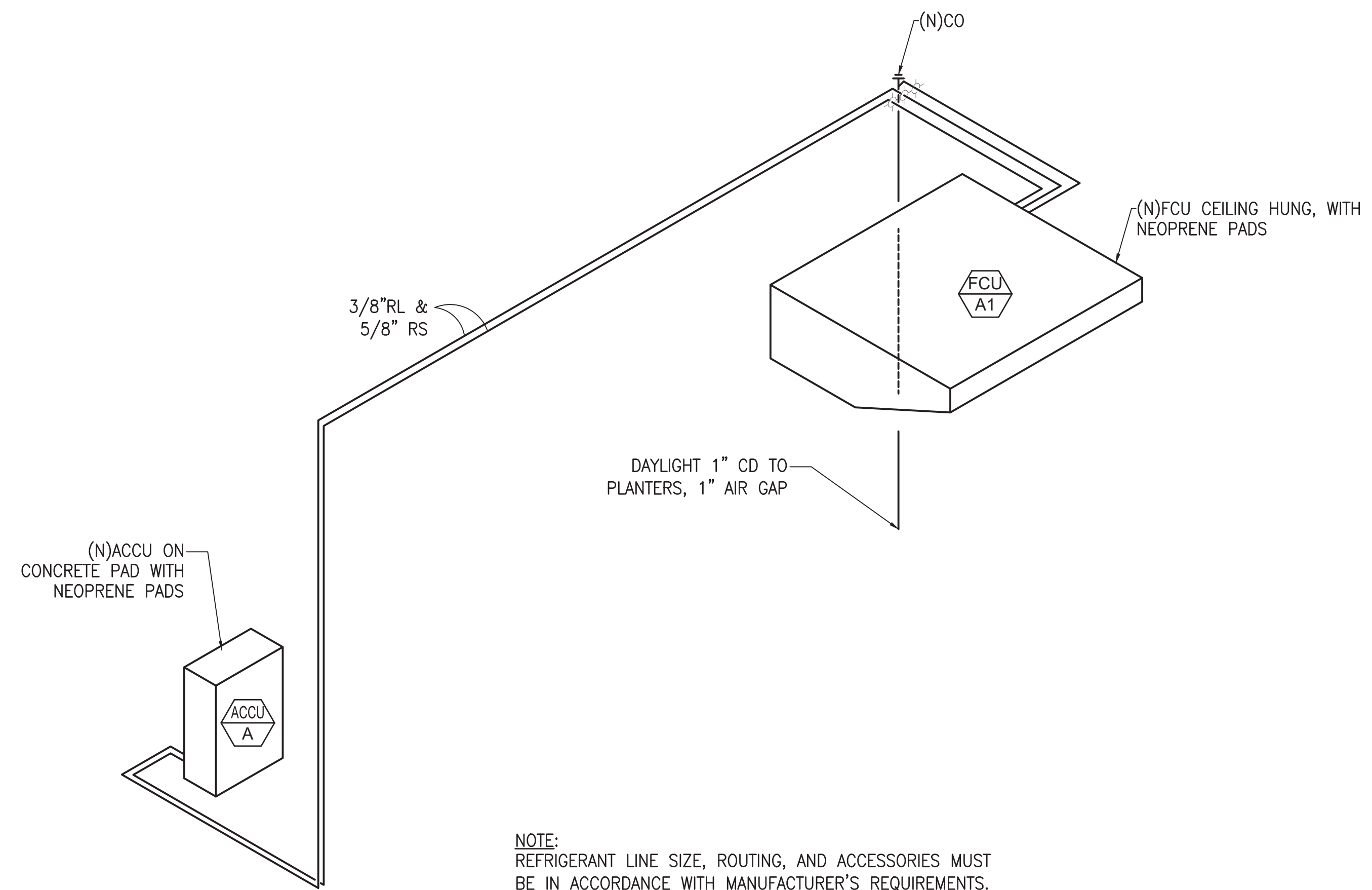
**2 NEW WATER DIAGRAM**  
SCALE: NOT TO SCALE



	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE          AT KALAELOA BARBERS POINT HARBOR          KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII</b>					
SHEET TITLE <b>NEW PLUMBING FLOOR PLAN</b>					
DESIGNED BY: MEI					SHEET
DRAWN BY: MEI					<b>M-3</b>
CHECKED BY: RRT					10 of 16 SHETS
DATE: JAN. 2023	JOB NUMBER				
EXPIRATION DATE OF LICENSE	<b>S10846</b>				
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**1 NEW MECHANICAL FLOOR PLAN**  
SCALE: 1/4" = 1' - 0"

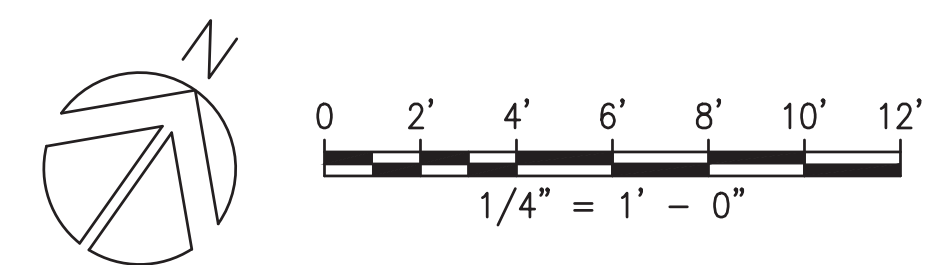


**2 REFRIGERANT AND CONDENSATE PIPING DIAGRAM**  
SCALE: NOT TO SCALE

**NEW MECHANICAL NOTE**

- (M1) PROVIDE AND INSTALL NEW AIR COOLED CONDENSING UNIT COMPLETE. PROVIDE NEW CONCRETE PAD, INSULATED REFRIGERANT PIPING, WIRING, CONTROLS, AND ASSOCIATED ACCESSORIES AS REQUIRED FOR COMPLETE VRF SYSTEM INSTALLATION IN ACCORDANCE WITH MANUFACTURE RECOMMENDATION. PATCH/REPAIR WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.
- (M2) PROVIDE AND INSTALL CEILING HUNG FAN COIL UNIT COMPLETE. PROVIDE INSULATED REFRIGERANT PIPING, INSULATED CONDENSATE DRAIN PIPING, THERMOSTAT, WIRING, AND ASSOCIATED ACCESSORIES AS REQUIRED. ROUTE OUTSIDE AIR DUCT INTO FAN COIL UNIT KNOCK-OUT FOR OUTSIDE AIR, WALL CAP WITH S.S BRIDSCREEN, AND OPPOSED BLADE VOLUME DAMPER. DAYLIGHT CONDENSATE PIPING AS SHOWN IN NEW MECHANICAL FLOOR PLAN. PATCH/REPAIR WALLS TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY.

**NOTE:**  
REFRIGERANT LINE SIZE, ROUTING, AND ACCESSORIES MUST BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.



	REV	DATE	DESCRIPTION	BY	APPROVED
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JOB TITLE REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII					
SHEET TITLE <b>NEW MECHANICAL FLOOR PLAN</b>					
DESIGNED BY: MEI					SHEET
DRAWN BY: MEI					<b>M-4</b>
CHECKED BY: RRT					
DATE: JAN. 2023	JOB NUMBER				
SCALE: AS NOTED	<b>S10846</b>				11 of 16 SHEETS

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OR UNDER MY SUPERVISION

*Ros S. Tanka*  
PROJECT MECHANICAL ENGINEER

APRIL 30, 2024  
EXPIRATION DATE OF LICENSE

**MECHANICAL SCHEDULE:**

PROVIDE MAGNETIC STARTER/DISCONNECTS WITH AUTOMATIC RESET FOR ALL UNITS. PROVIDE NEMA-4X STARTER ENCLOSURE FOR ALL OUTDOOR EQUIPMENT. ALL OUTDOOR EQUIPMENT SHALL HAVE POLYSILOXANE COATING PROTECTION ON INSIDE AND OUTSIDE OF HOUSING. COILS (CONDENSER) SHALL HAVE BLYGOLD POLJUAL COATING. PROVIDE PHASE FAILURE/PHASE REVERSAL/OVER VOLTAGE/UNDER VOLTAGE ELECTRICAL PROTECTION. PROVIDE CONTROL VOLTAGE TRANSFORMERS.

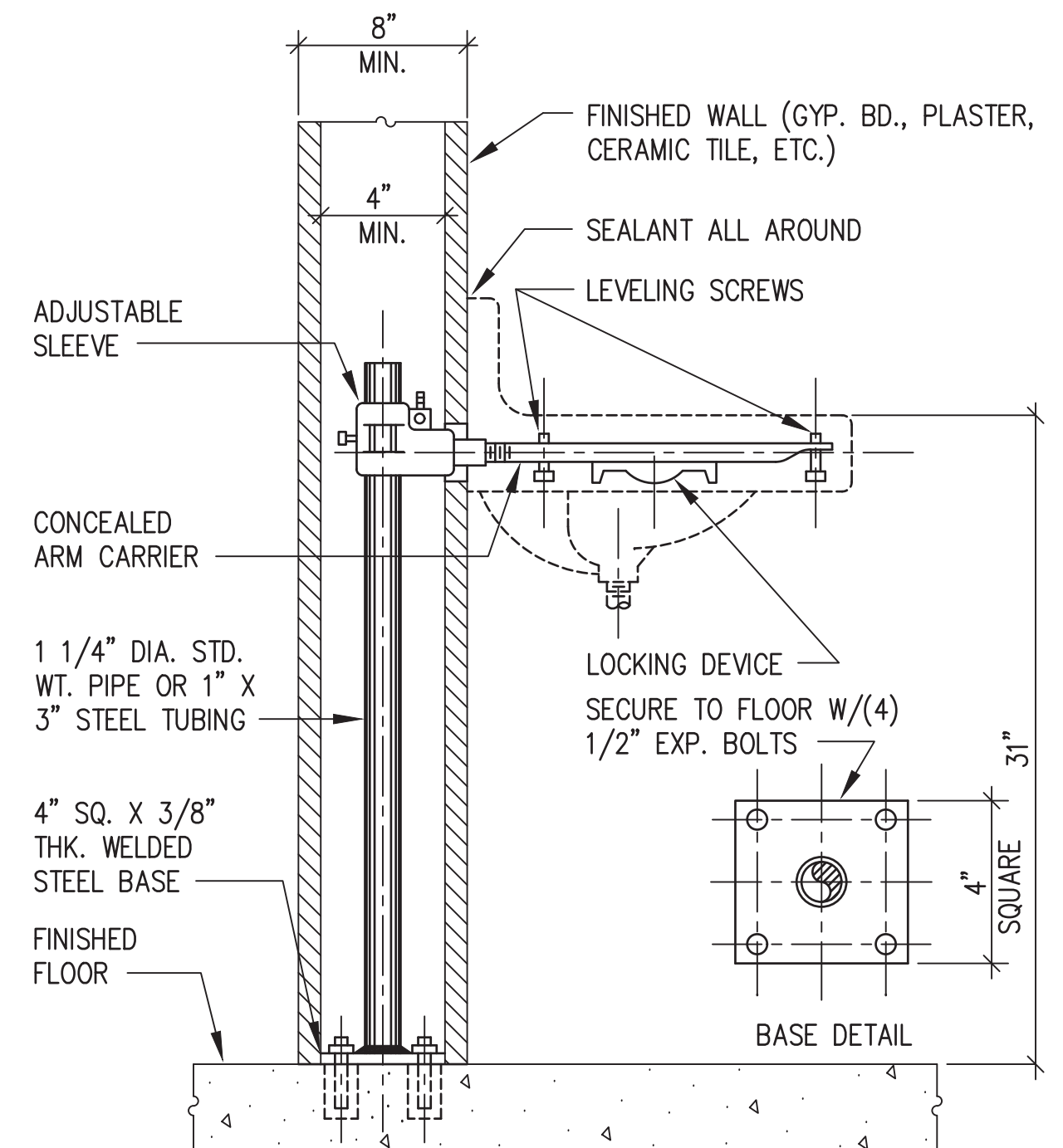
**VRF SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE**

INDOOR UNIT																		
UNIT NO.	MANUFACTURER AND MODEL	AREA SERVED	TYPE	MAX SUPPLY AIR, CFM	OUTSIDE AIR, CFM	TOTAL CAPACITY (BTUH)	ENT AIR TEMP db (°F)	wb (°F)	REFRIG LIQ	REFRIG GAS	COND DRAIN	ELECTRICAL				MAX SOUND LEVEL (dBA)	OPR WT (LBS)	REMARKS
												V	Ø	Hz	MCA			
FCU A1	MITSUBISHI PCA-A36KA7	OFFICE	CEILING HUNG	980	35	36,000	76	64	1/4"	1/2"	3/4"	208	1	60	2.0	30	79	PROVIDE WITH CONDENSATE PUMP, AND NEOPRENE PADS.
*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.																		
OUTDOOR UNIT																		
UNIT NO.	MANUFACTURER AND MODEL	LOCATION	TYPE	REFRIG	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	SEER/EER	ELECTRICAL				OPR WT (LBS)	REMARKS					
								V	Ø	Hz	MCA	MOCP						
ACCU A	MITSUBISHI PUY-A36NKA7	OUTSIDE	VARIABLE REFRIG FLOW	R410A	36,000	95	19.1/11.0	208	1	60	25.0	31.0	211.0	PROVIDE NEOPRENE ISOLATORS, STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR COATING ON CONDENSER COIL AND CASING. PROVIDE WIRING AND PIPING FROM ACCU TO INDOOR FCU.				

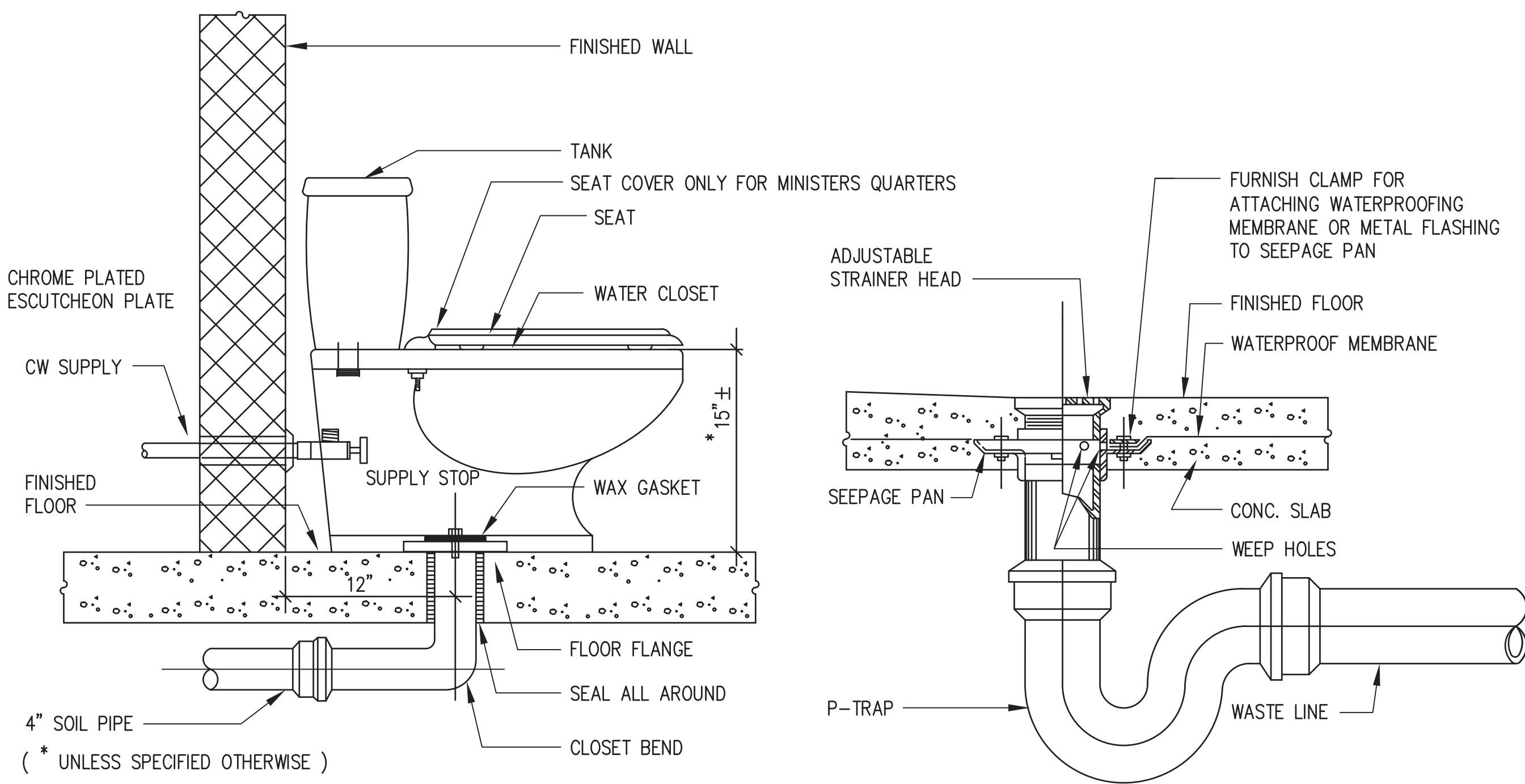
**PLUMBING SCHEDULE:**

**ELECTRIC WATER HEATER SCHEDULE**

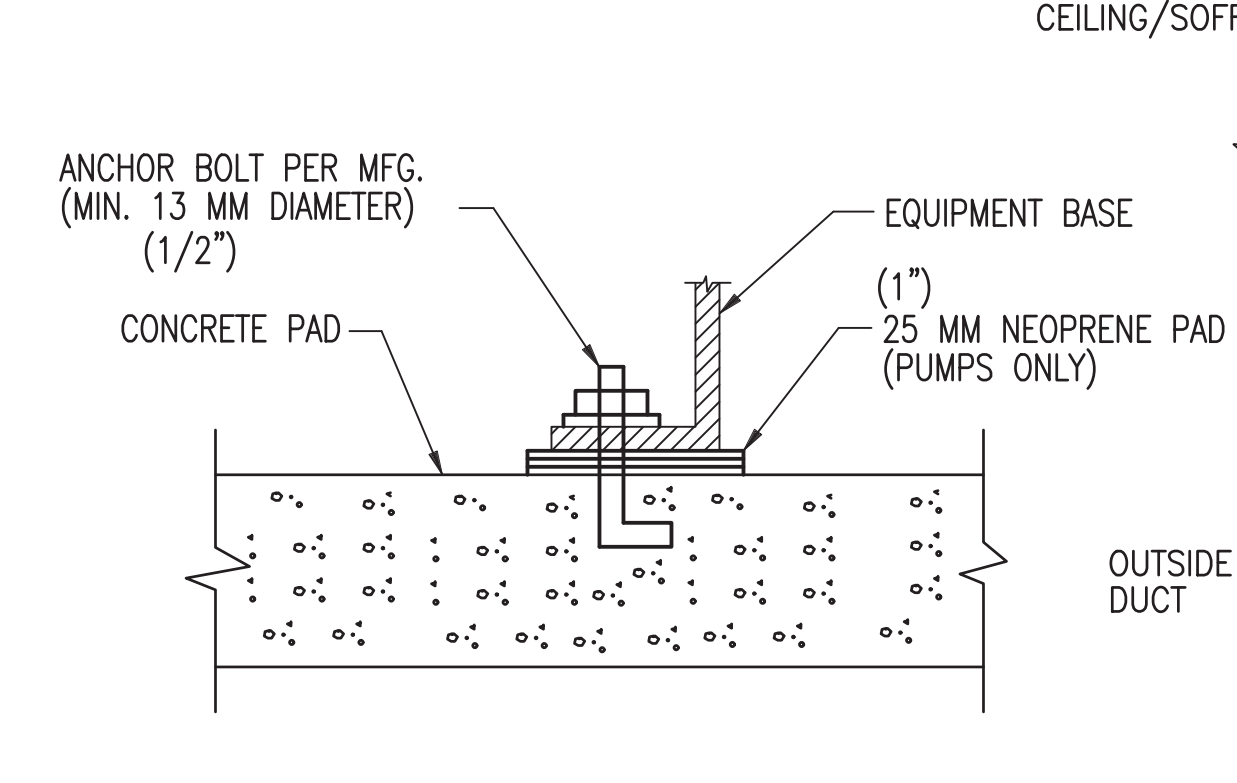
UNIT NO.	MANUFACTURER AND MODEL OR APPROVED EQUAL	AREA SERVED	STORAGE CAPACITY (GAL)	HEATER DATA					HEIGHT (IN)	DIAMETER (IN)	GROSS WT (LBS)	REMARKS	
				EWT (°F)	LWT (°F)	V	Ø	Hz					kW
EW1	RHEEM XE40M06ST45U1	BATHROOM, KITCHENETTE	50	72	140	240	1	60	4.5	50-1/2	23	132	PROVIDE WATER HEATER COMPLETE WITH HEAT TRAPS, ANTI SCALE FILTER, SHUTOFF VALVES, VACUUM BREAKER, T&P VALVE, EXPANSION TANK, AND DRAIN PAN. PROVIDE SEISMIC STRAP AND SECURE TO BUILDING. EXISTING TIME CLOCK TO BE CLEAN/REFURBISH.



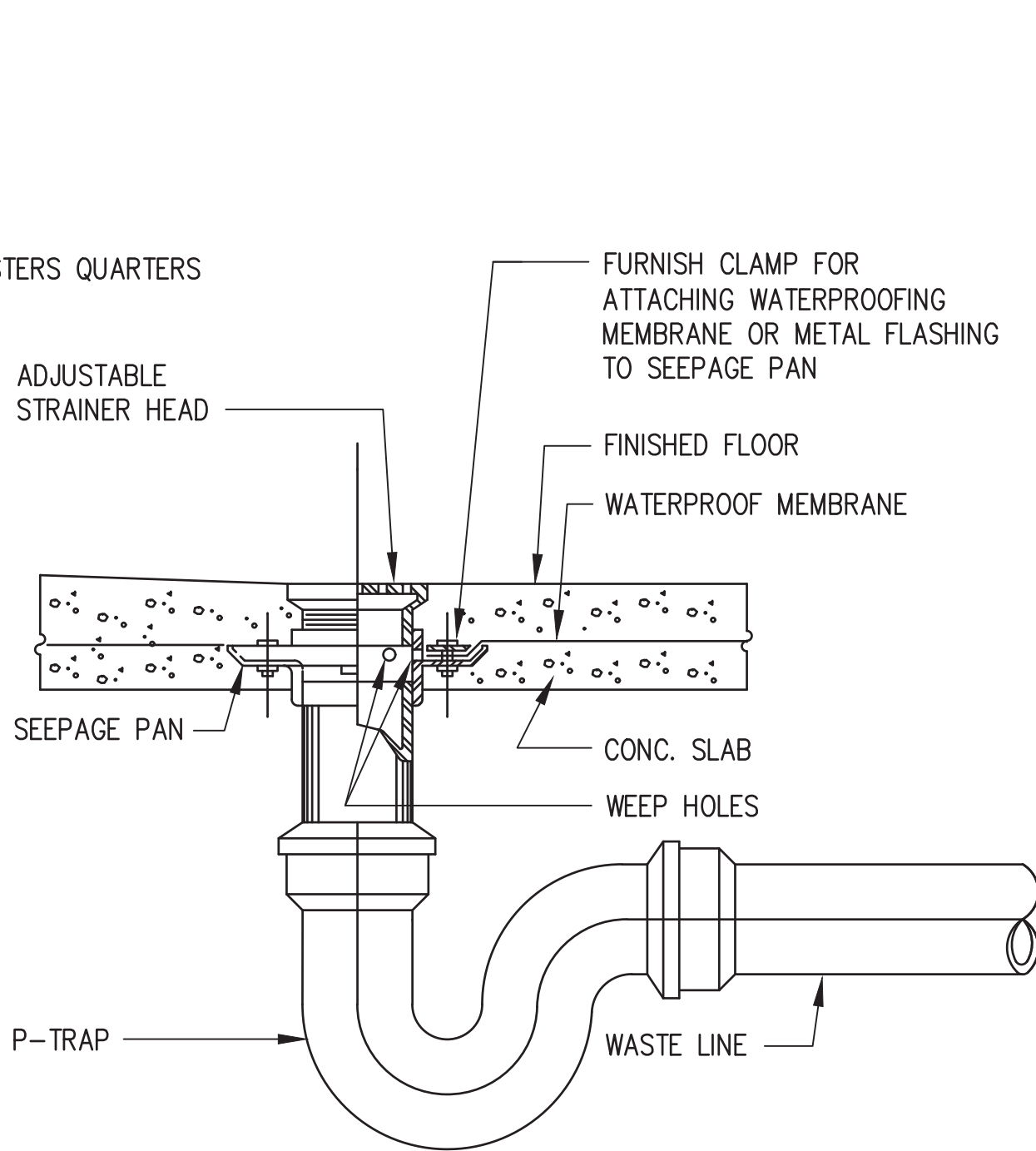
**1 LAVATORY - FLOOR SUPPORTED**  
SCALE: NTS



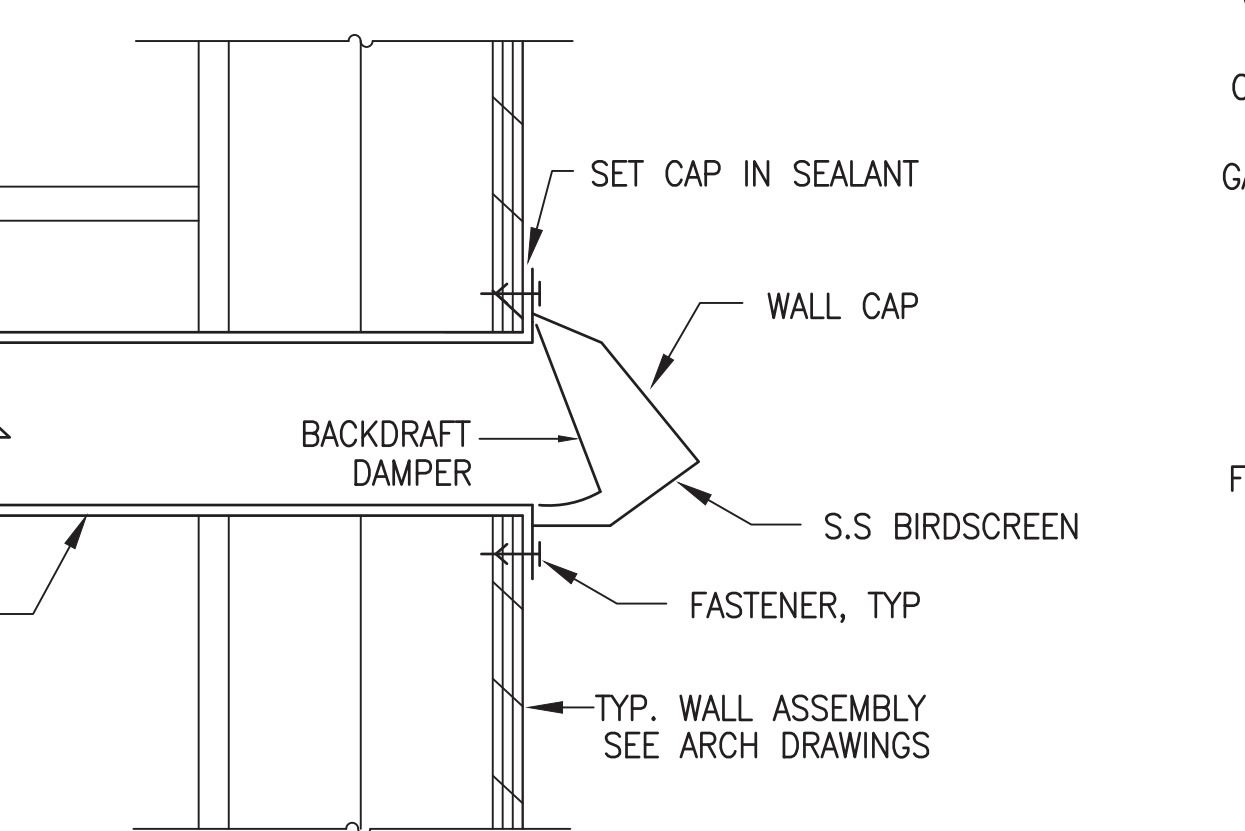
**2 WATER CLOSET - FLOOR MOUNTED**  
SCALE: NTS



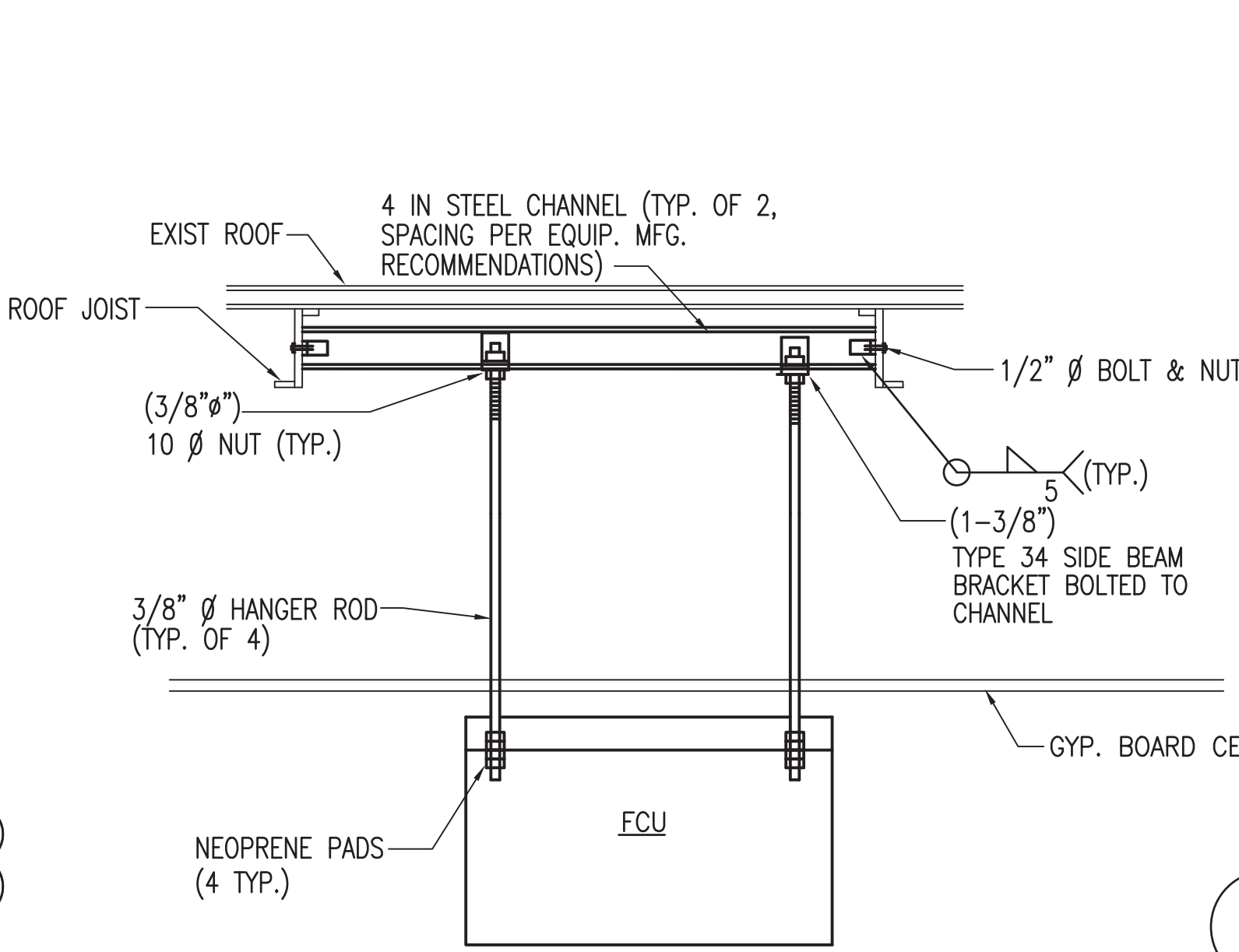
**7 ACCU MOUNTING BASE DETAIL**  
SCALE: NTS



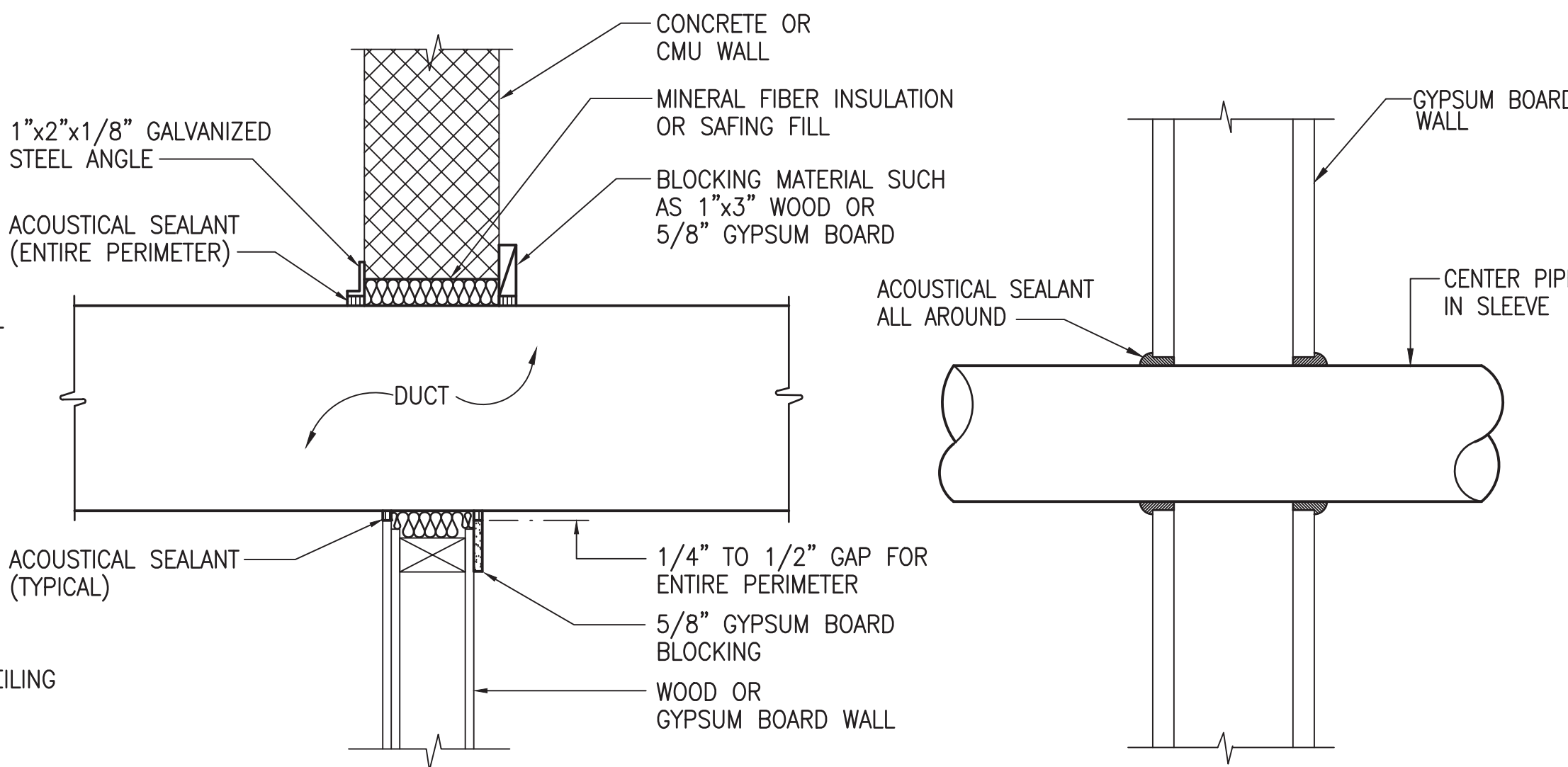
**3 SHOWER DRAIN DETAIL**  
SCALE: NTS



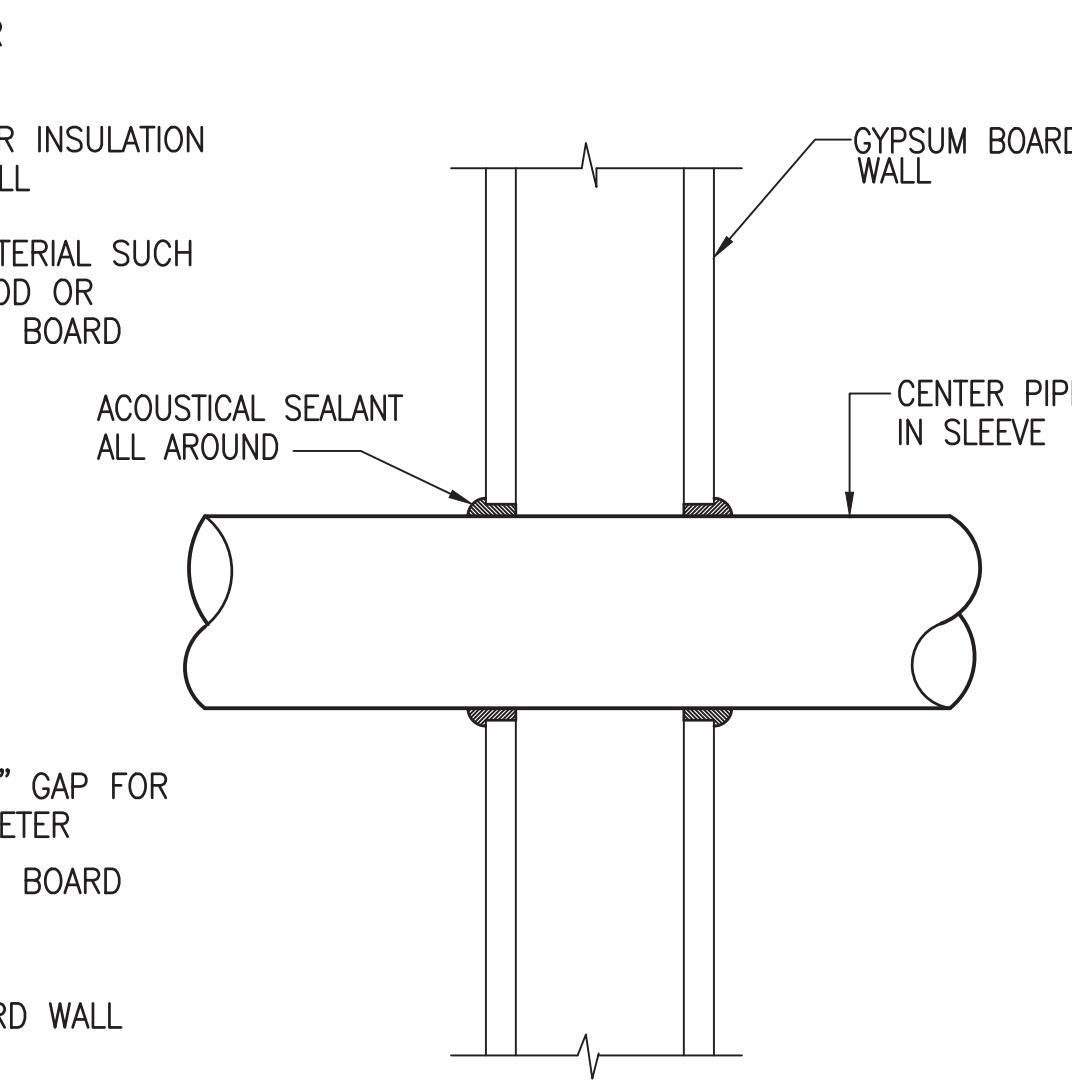
**8 WALL CAP DETAIL**  
SCALE: NTS



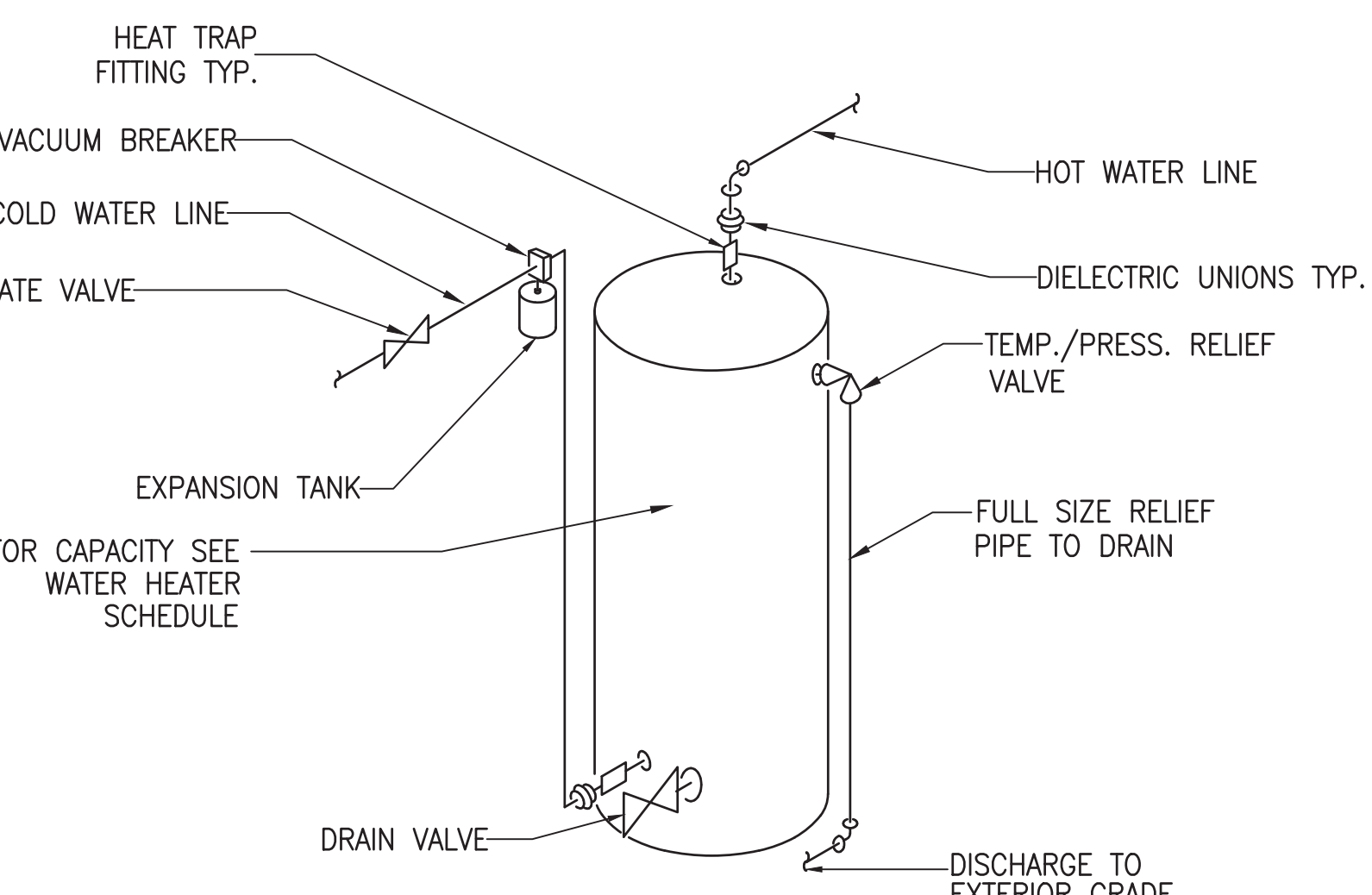
**4 CEILING SUSPENDED FCU**  
SCALE: NTS



**5 TYPICAL DUCT THRU WALL DETAIL**  
SCALE: NTS



**6 PIPE THRU DRYWALL DETAIL**  
SCALE: NTS



**9 WATER HEATER DETAIL**  
SCALE: NTS

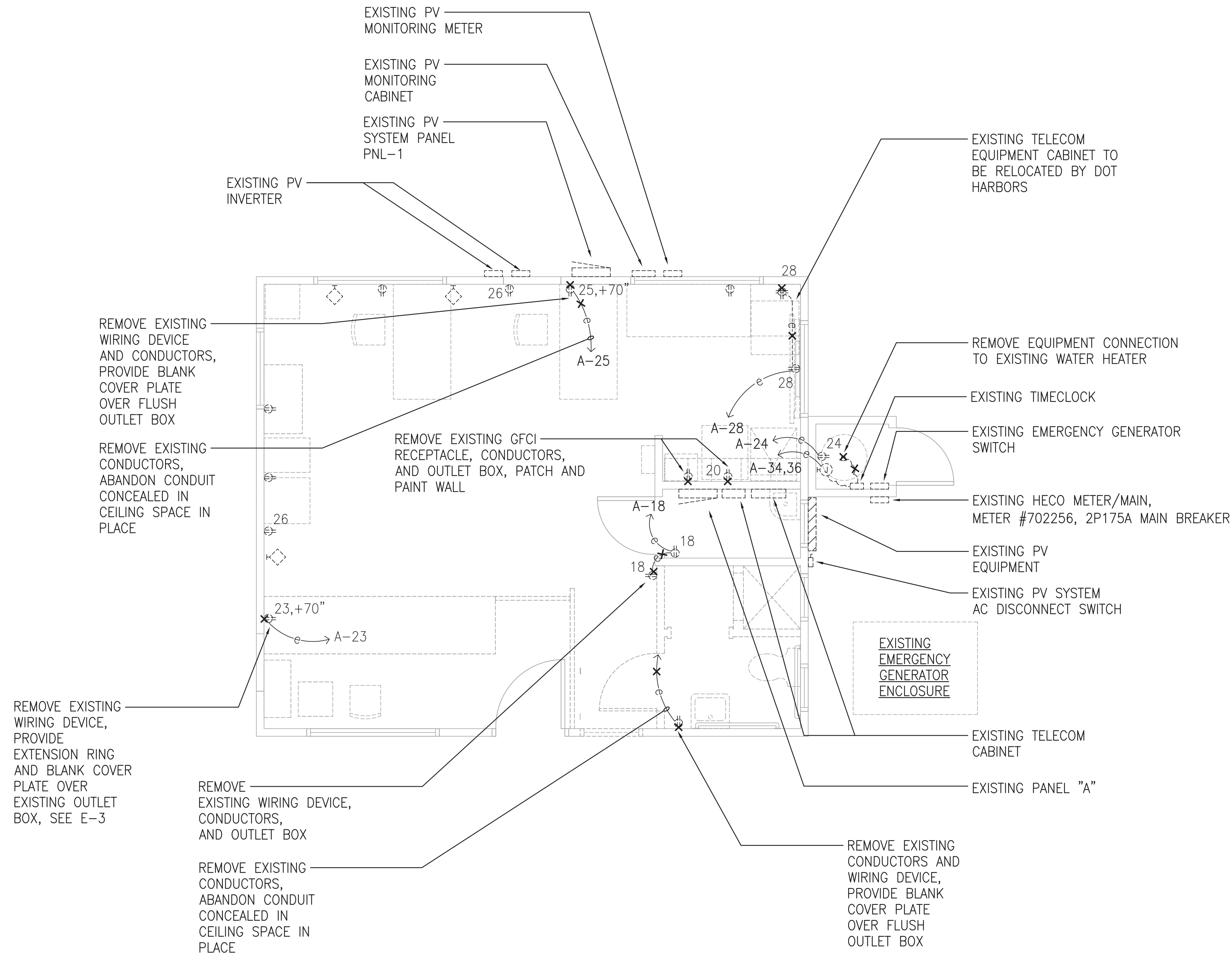
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
   
  
 PROJECT MECHANICAL ENGINEER
   
 APRIL 30, 2024
   
 EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE                  AT KALAELOA BARBERS POINT HARBOR                  KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII</b>				
SHEET TITLE <b>MECHANICAL SCHEDULE AND DETAILS</b>				
DESIGNED BY:	MEI			SHEET
DRAWN BY:	MEI			<b>M-5</b>
CHECKED BY:	RRT			
DATE:	JAN. 2023			
SCALE:	AS NOTED	JOB NUMBER	<b>S10846</b>	
				12 of 16 SHEETS



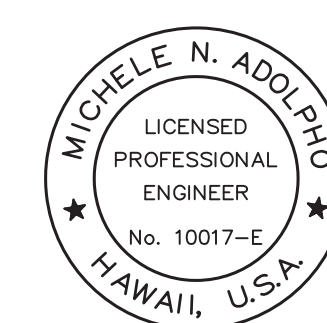
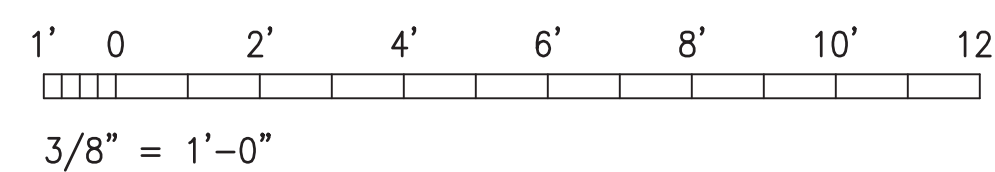
NOTES:

1. CIRCUIT ASSIGNMENTS SHOWN ON PLAN REFLECT THE PANEL A BREAKER ASSIGNMENT. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
2. EXISTING RECEPTACLES TO REMAIN WHICH HAVE BEEN IDENTIFIED WITH A CIRCUIT ASSIGNMENT ON THE ELECTRICAL PLAN SHALL BE PROVIDED WITH UPDATED LABELS SPECIFYING THE NEW CIRCUIT ASSIGNMENT BASED OFF THE PANEL A BREAKER ASSIGNMENT.



**1 ELECTRICAL DEMOLITION FLOOR PLAN**  
**E-2** SCALE: 3/8" = 1'-0"

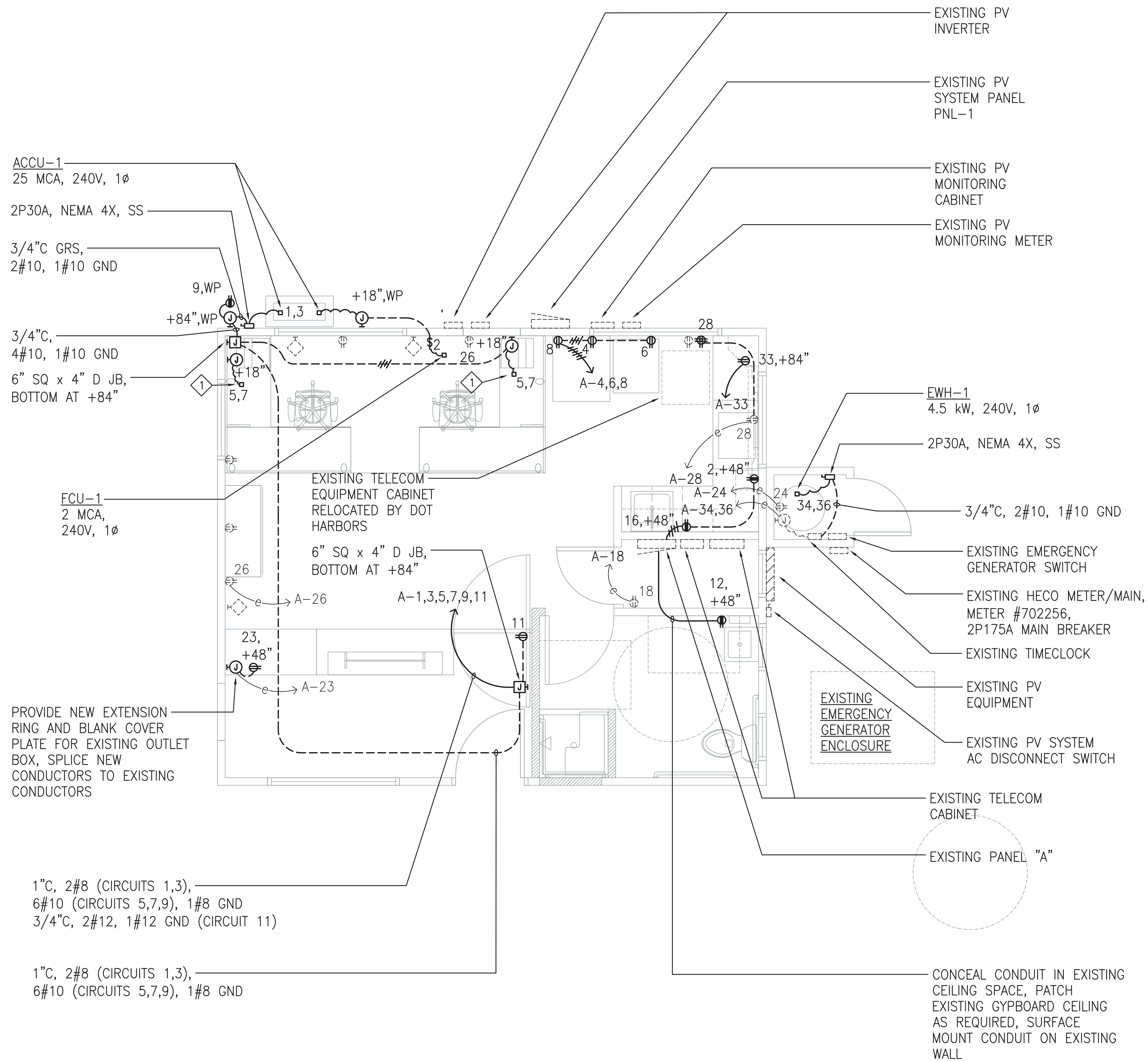
**GRAPHIC SCALE**



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*Michele N. Adelleho*  
 PROJECT ENGINEER FOR  
 ECS, INC.  
 APRIL 30, 2024  
 EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE AT KALAELOA BARBERS POINT HARBOR</b> KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII				
SHEET TITLE ELECTRICAL DEMOLITION PLAN				
DESIGNED BY:	JC			SHEET
DRAWN BY:	OL			<b>E-2</b>
CHECKED BY:	MA			
DATE:	JAN. 2023	JOB NUMBER		
SCALE:	AS NOTED	<b>S10846</b>		



**NOTES:**

- 1 SYSTEMS FURNITURE CONNECTION VIA FLEXIBLE CONDUIT WHIP.
- 2. PREWIRED SYSTEMS FURNITURE CONSISTS OF A 4-CIRCUIT, 8-WIRE CONFIGURATION WITH 3 HOT, 1 SHARED NEUTRAL, 1 SHARED EQUIPMENT GROUNDING CONDUCTOR, AND 1 DEDICATED HOT, 1 DEDICATED NEUTRAL, AND 1 DEDICATED EQUIPMENT GROUNDING CONDUCTOR. A MAXIMUM OF 6 NEMA 5-15R OR NEMA 5-20R RECEPTACLES SHALL BE ASSIGNED TO A 1P20A BRANCH CIRCUIT. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR TYING THE ISOLATED GROUND TERMINAL WITH THE COMMON GROUND TERMINAL OF THE SYSTEMS FURNITURE.
- 3. THE PREWIRED SYSTEMS FURNITURE SHALL BE SERVED BY CIRCUITS 5 AND 7 FROM EXISTING PANEL A. WITHIN THE SYSTEMS FURNITURE, CIRCUIT 5 SHALL BE SUPPORTED BY THE SHARED NEUTRAL AND SHALL SERVE GENERAL PURPOSE RECEPTACLES. CIRCUIT 7 SHALL BE SUPPORTED BY THE DEDICATED NEUTRAL AND SHALL SERVE THE NEW COMPUTER WORKSTATION AT EACH MODULAR DESK. COORDINATE WITH THE SYSTEMS FURNITURE MANUFACTURER TO MAKE THE REQUIRED CONNECTIONS.
- 4 PROVIDE NEW CIRCUIT BREAKERS ON PFB SPACES.

EXISTING PANEL A		240/120 VOLTS, 1 PHASE, 3 WIRE				MIN AIC: 10,000		MOUNTING: SURFACE		
		2P100A MAIN BREAKER						GE SERIES A AQF1361ABX		
ORIGINAL CIRCUIT #	WIRE SIZE (AWG)	CKT NO	USE	CKT BKR POLE	CONN LOAD (KVA) PHASE A PHASE B	CKT BKR AMP POLE	USE	CKT NO	WIRE SIZE (AWG)	
8	3	1	ACCU-1/FCU-1	2	1.7 1.0	20 1	R- MICROWAVE	2	12	
8	3	3		30		20 1	R- REFRIGERATOR	4	12	
10	5	5	MODULAR DESK	1	20 0.6 0.9	20 1	R- ICE MAKER	6	12	
10	7	7	MODULAR DESK	1	20	0.6 0.5	20 1	R- SAO	8	12
10	9	9	R - EXTERIOR	1	20 0.2 -	20 1	PFB	10	-	
10	11	11	R - OFFICE	1	20	0.2 0.2	20 1	R- RESTROOM	12	10
-	-	13	PFB	1	- - -	20 1	PFB	14	-	
-	-	15	PFB	1	- - -	20 1	R- KITCHENETTE	16	12	
1	*	17	LIGHTS	1	20 0.6 0.2	20 1	RECEPTACLE	18	* 2	
3	*	19	ENTRANCE LIGHTS	1	20	0.5 -	15 1	SPARE	20	* 4
5	*	21	LIGHTS	1	20 0.5 0.2	20 1	RECEPTACLE	22	* 6	
7	*	23	R- PRINTER TABLE	1	20	0.2 0.4	20 1	R - WATER HEATER CL	24	* 8
9	*	25	RECEPTACLE	1	20 0.2 0.2	20 1	RECEPTACLE	26	* 10	
11	*	27	GARAGE TIME CLOCK	1	20	0.2 0.4	20 1	H2S - CIS CAMERA	28	* 12
13	*	29	GARAGE PLUG	1	20 0.4 1.0	20 1	R - WATER COOLER	30	* 14	
15	*	31	GARAGE LIGHTS	1	20	0.5 0.2	20 1	UNDER CAB LIGHT	32	* 16
17	12	33	R- MONITOR	1	20 0.4 2.3	30	WATER HEATER	34	* 18	
19	-	35	SPARE	1	20	- 2.3	2		36	* 20
CONNECTED LOAD/PHASE				10.4		8.9		* = EXISTING CIRCUIT TO REMAIN		
TOTAL CONNECTED LOAD				19.3		KVA				
DEMAND FACTOR				0.8						
TOTAL DEMAND LOAD				15.5		KVA = 64.6		AMPS		

**PANEL A NOTE:**

THE PANEL SCHEDULE FOR PANEL A INCLUDES THE ORIGINAL CIRCUIT NUMBERING OF EACH BREAKER SPACE. THE CONTRACTOR SHALL UPDATE THE CIRCUIT NUMBERING OF EACH BREAKER SPACE WITH THE NEW CIRCUIT NUMBER IDENTIFIED. PROVIDE AN UPDATED LABEL AT THE PANEL WITH THE NEW CIRCUIT NUMBER AT EACH BREAKER SPACE. FOR EXISTING CIRCUITS, REPLACE THE ORIGINAL CIRCUIT NUMBER LABELS WITH NEW LABELS INDICATING THE NEW CIRCUIT NUMBER. PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY WITH THE NEW CIRCUIT ASSIGNMENTS.

ACCU-1  
25 MCA, 240V, 1Ø  
2P30A, NEMA 4X, SS  
3/4" C GRS,  
2#10, 1#10 GND

3/4" C,  
4#10, 1#10 GND  
6" SQ x 4" D JB,  
BOTTOM AT +84"

FCU-1  
2 MCA,  
240V, 1Ø

PROVIDE NEW EXTENSION  
RING AND BLANK COVER  
PLATE FOR EXISTING OUTLET  
BOX, SPLICE NEW  
CONDUCTORS TO EXISTING  
CONDUCTORS

1" C, 2#8 (CIRCUITS 1,3),  
6#10 (CIRCUITS 5,7,9), 1#8 GND  
3/4" C, 2#12, 1#12 GND (CIRCUIT 11)

1" C, 2#8 (CIRCUITS 1,3),  
6#10 (CIRCUITS 5,7,9), 1#8 GND

EXISTING PV  
INVERTER  
EXISTING PV  
SYSTEM PANEL  
PNL-1  
EXISTING PV  
MONITORING  
CABINET  
EXISTING PV  
MONITORING  
METER

EW-1  
4.5 kW, 240V, 1Ø  
2P30A, NEMA 4X, SS

3/4" C, 2#10, 1#10 GND

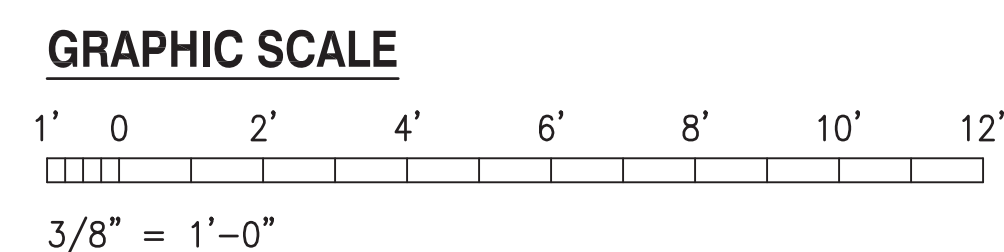
EXISTING EMERGENCY  
GENERATOR SWITCH  
EXISTING HECO METER/MAIN,  
METER #702256,  
2P175A MAIN BREAKER  
EXISTING TIMECLOCK

EXISTING PV  
EQUIPMENT  
EXISTING PV SYSTEM  
AC DISCONNECT SWITCH

EXISTING TELECOM  
CABINET  
EXISTING PANEL "A"

CONCEAL CONDUIT IN EXISTING  
CEILING SPACE, PATCH  
EXISTING GYPBOARD CEILING  
AS REQUIRED, SURFACE  
MOUNT CONDUIT ON EXISTING  
WALL

**1 ELECTRICAL PLAN**  
E-3 SCALE: 3/8" = 1'-0"



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OR UNDER MY SUPERVISION

*Michele Adelleho*  
PROJECT ENGINEER FOR  
ECS, INC.  
APRIL 30, 2024  
EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED

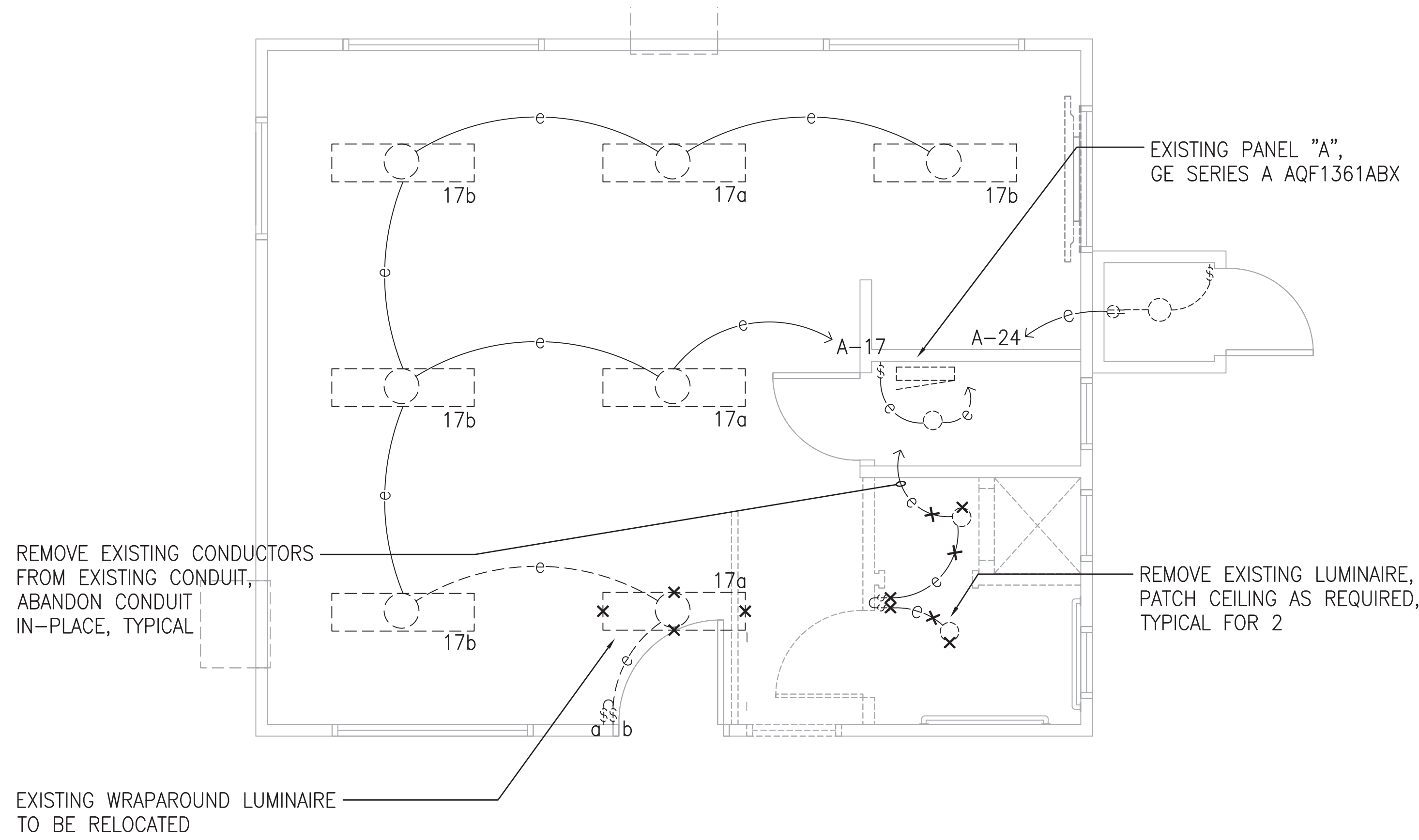
STATE OF HAWAII  
**DEPARTMENT OF TRANSPORTATION**  
HARBORS DIVISION

JOB TITLE  
**REPAIR HARBOR AGENT'S OFFICE  
AT KALAELOA BARBERS POINT HARBOR**  
KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII

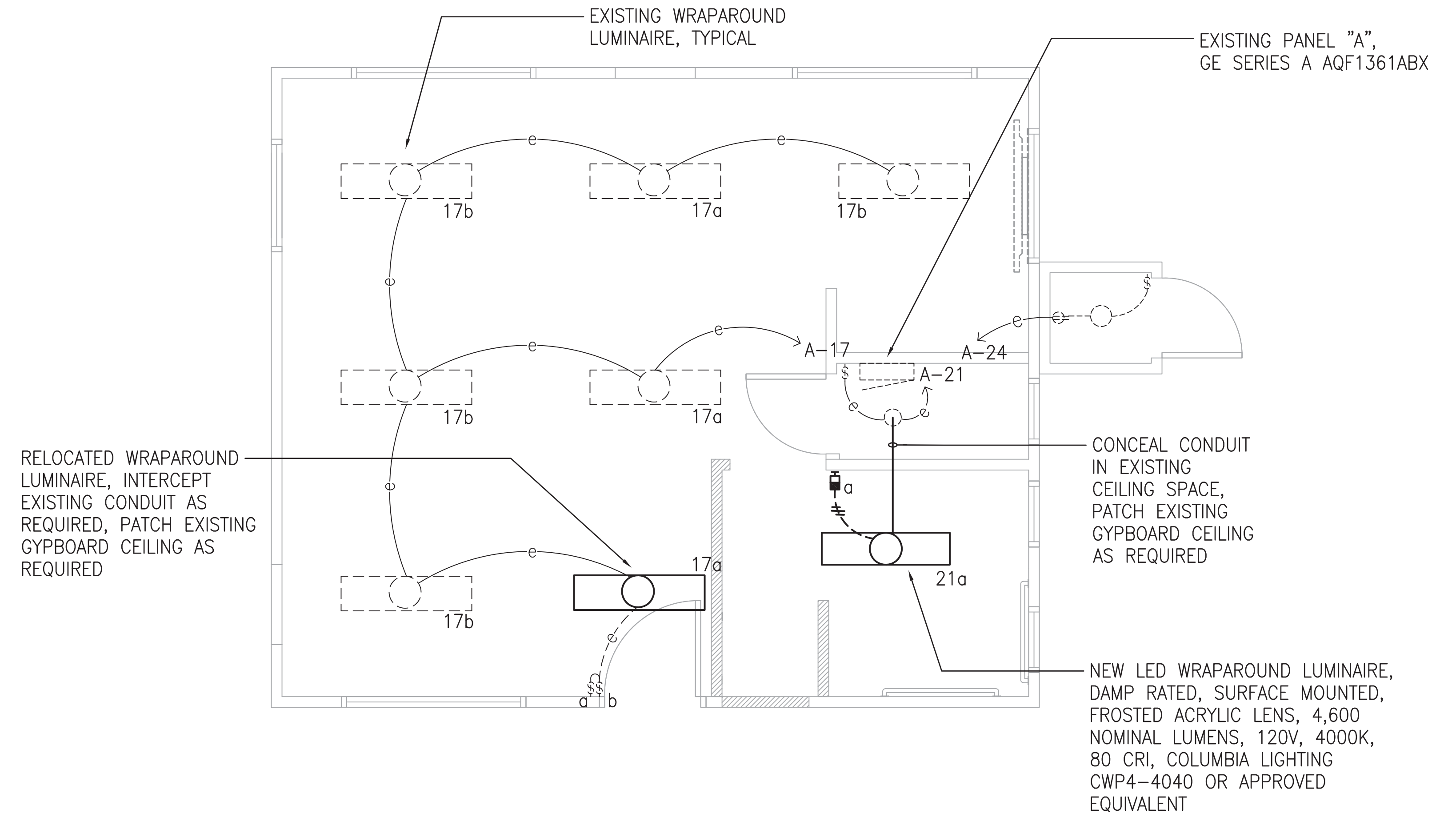
SHEET TITLE  
**ELECTRICAL PLAN**

SHEET  
**E-3**

15 of 16 SHEETS

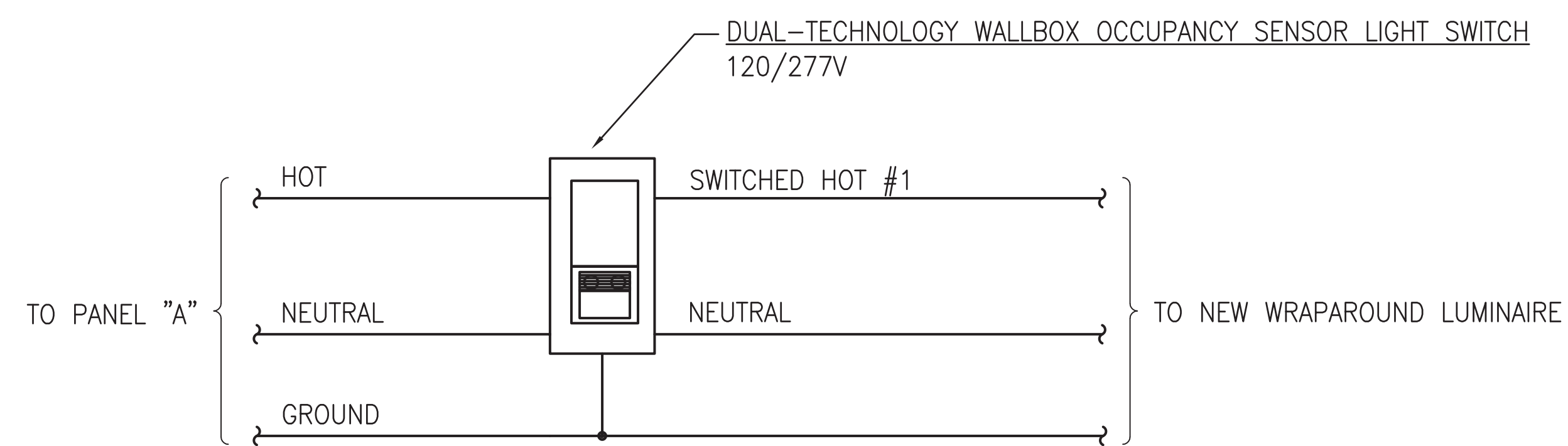


**1 LIGHTING DEMOLITION PLAN**  
**E-4** SCALE: 3/8" = 1'-0"

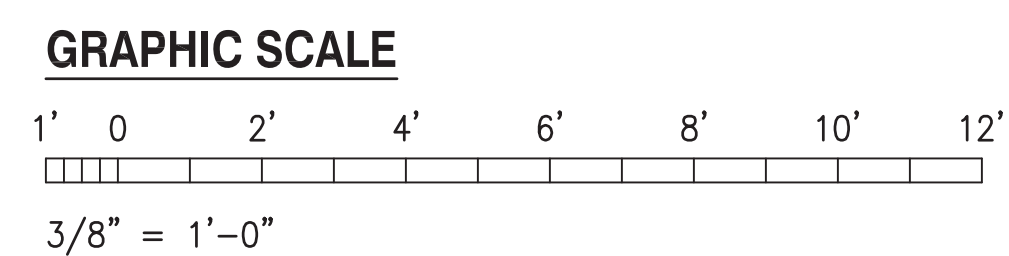


**2 LIGHTING PLAN**  
**E-4** SCALE: 3/8" = 1'-0"

**NOTE:**  
 1. VERIFY EXISTING LIGHTING CIRCUIT ASSIGNMENTS.



**3 OCCUPANCY SENSOR SWITCH WIRING DIAGRAM**  
**E-4** NO SCALE



<p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p> <p><i>Michele N. Adolpho</i>          PROJECT ENGINEER FOR          ECS, INC.          APRIL 30, 2024          EXPIRATION DATE OF LICENSE</p>	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE <b>REPAIR HARBOR AGENT'S OFFICE          AT KALAELOA BARBERS POINT HARBOR</b> KALAELOA BARBERS POINT HARBOR, OAHU, HAWAII				
	SHEET TITLE <b>LIGHTING PLAN</b>				
DESIGNED BY: JC	JOB NUMBER: <b>S10846</b>			SHEET: <b>E-4</b>	
DRAWN BY: OL					
CHECKED BY: MA					
DATE: JAN. 2023					
SCALE: AS NOTED				16 of 16 SHTS.	