

HHSC KAUAI RENOVATIONS

KVMH COVID-19 TESTING LAB

4643 WAIMEA CANYON DRIVE
 WAIMEA, HI 96796
 TMK#: 1-2-603:5

SCHEMATIC DESIGN



111 S. KING STREET, SUITE 170
 HONOLULU, HI 96813
 808.523.5866
 WWW.G70.DESIGN

REVISIONS
 # Date Description

SCHEMATIC DESIGN

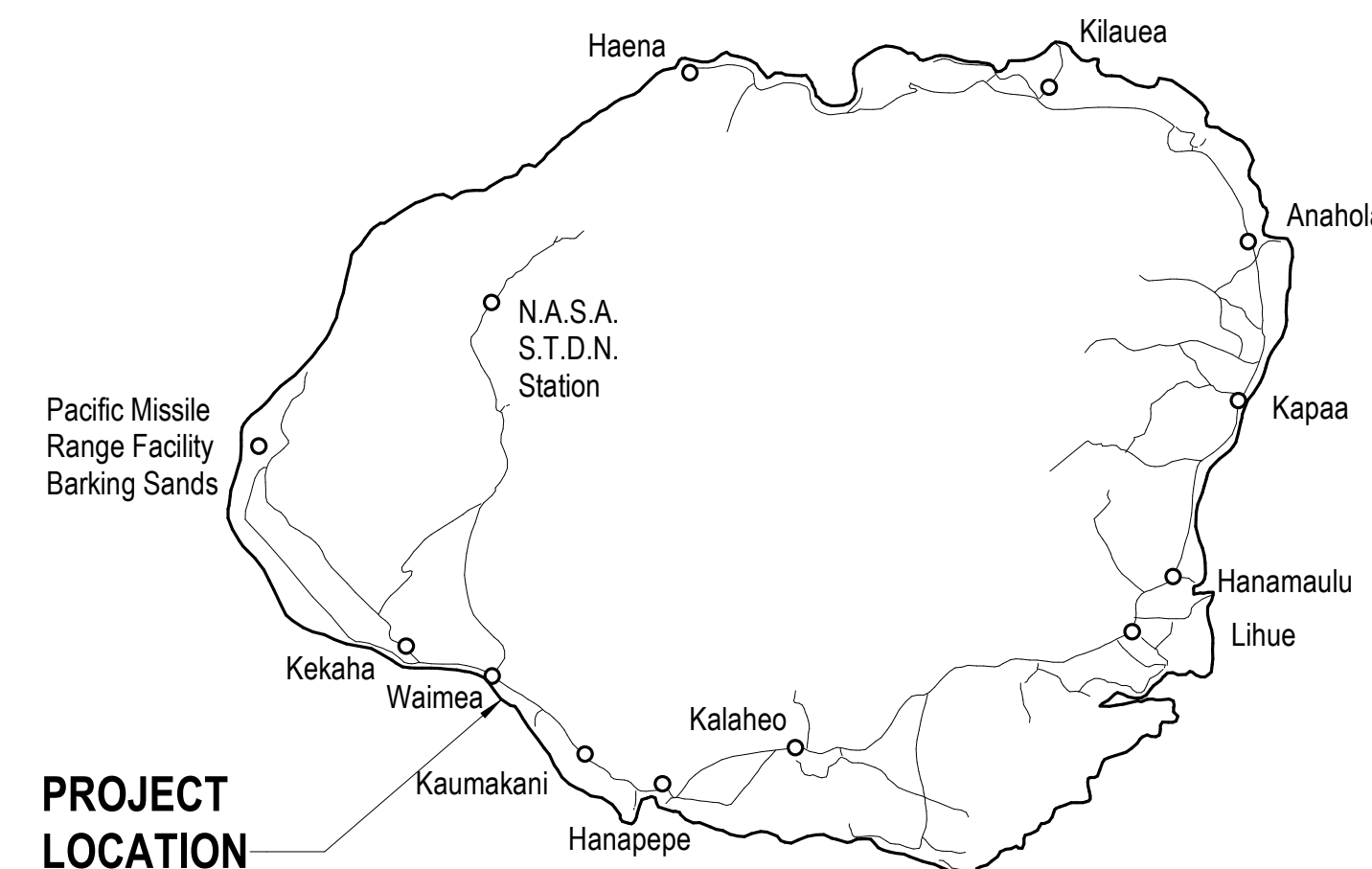
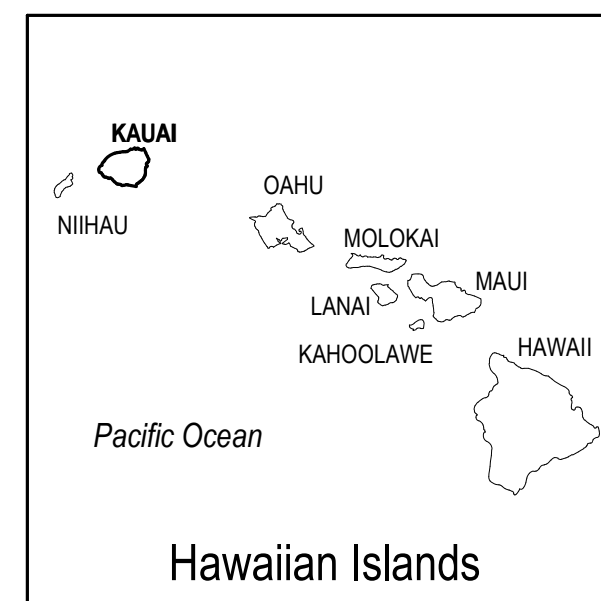
12/14/20

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License Expiration Date

LOCATION MAP



DRAWING NOT TO SCALE

VICINITY MAP

PROJECT TEAM

CLIENT:
 HAWAII HEALTH SYSTEMS CORPORATION - KAUAI DIVISION
 4643 Waimea Canyon Drive
 P.O Box 337
 Waimea, HI 96796

CONSULTANTS

ARCHITECT:
 GROUP 70 INTERNATIONAL, INC.
 111 South King Street, Suite 170
 Honolulu, Hawaii 96813

STRUCTURAL:
 SHIGEMURA, LAU, SAKANASHI, HIGUCHI & ASSOCIATES, INC.
 1916 Young Street, 2nd floor
 Honolulu, HI 96826

INTERIOR:
 GROUP 70 INTERNATIONAL, INC.
 111 South King Street, Suite 170
 Honolulu, Hawaii 96813

MECHANICAL:
 INSYNERGY ENGINEERING
 828 Fort Street Mall, Suite 500
 Honolulu, HI 96813

ELECTRICAL:
 INSYNERGY ENGINEERING
 828 Fort Street Mall, Suite 500
 Honolulu, HI 96813

PROJECT TITLE

HHSC KAUAI RENOVATIONS

KVMH COVID LAB

FILENAME:

C:\Users\kendym\Documents\KVMH-CT_A18_Central_kendym.rvt

DRAWING TITLE

TITLE, PROJECT TEAM, PROJECT VICINITY

SCALE:

DRAWN BY:

Author

PROJECT NO.

220038-01

SHEET ISSUE DATE:

11/30/20

CHECKED BY:

Checker

DRAWING NO.

T001

TITLE

SHEET NO.	SHEET NAME
T001	TITLE, PROJECT TEAM, PROJECT VICINITY
T002	INDEX TO SHEETS
T004	ABBREVIATIONS AND ARCHITECTURAL SYMBOLS

ARCHITECTURE

SHEET NO.	SHEET NAME
A101	OVERALL FLOOR PLAN
A111	DEMO FLOOR PLAN, FLOOR PLAN AND REFLECTED CEILING PLAN
A501	INTERIOR ELEVATIONS, FINISH FLOOR PLAN AND COLOR MATERIAL FINISH SCHEDULE

MECHANICAL

SHEET NO.	SHEET NAME
M-001	MECHANICAL NOTES AND LEGEND
M-101	MECHANICAL DEMOLITION PLAN
M-201	MECHANICAL NEW WORK PLAN

PLUMBING

P-001	PLUMBING NOTES AND LEGENDS
P-101	PLUMBING DEMOLITION PLAN
P-102	PLUMBING NEW WORK PLAN

ELECTRICAL

SHEET NO	SHEET NAME
E-001	ELECTRICAL SPECIFICATIONS AND GENERAL NOTES
E-002	FIRE ALARM GENERAL NOTES
E-003	ELECTRICAL SYMBOL LIST
E-101	COVID LAB ELECTRICAL DEMO PLAN
E-102	COVID LAB ELECTRICAL PLAN
E-501	LUMINAIRE SCHEDULE



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PROJECT TITLE

**HHSC KAUAI
 RENOVATIONS**

KVMH COVID LAB

FILENAME:

C:\Users\kendylm\Documents\KVMH-CT_A18_Central_kendylm.rvt

DRAWING TITLE

INDEX TO SHEETS

SCALE:**DRAWN BY:**

Author

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PROJECT NO.

220038-01

DRAWING NO.

T002

SHEET ISSUE DATE:

11/30/20

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED

& /	AND	DWG	DRAWING	LAB	LABORATORY	SAFB	SOUND ATTENUATION FIRE BLANKET
@ € ∅ ' " % ⊥ # R (E) (N) W	ANGLE AT CENTER LINE DIAMETER FOOT; FEET INCH PERCENT PERPENDICULAR POUND OR NUMBER PROPERTY LINE EXISTING NEW WITH	DWR E (E) EA EC EFS EIFS EL ELEC ELEV EMER ENCL EPS EQ EQPT EXP EWC EXIST EXT	DRAWER EAST EXISTING EACH ELASTOMERIC COATING EXTERIOR FINISH SYSTEM EXTERIOR INSULATION & FINISH SYSTEM EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE EXPANDED POLYSTYRENE EQUAL EQUIPMENT EXPANSION ELEC. WATER COOLER EXISTING EXTERIOR	LAM LAV LB LDG LF LH LOC LR LT LP LVR	LAMINATE OR LAMINATED LAVATORY POUND LANDING LINEAR FOOT LEFT HAND LOCATION LIVING ROOM LIGHT LOW POINT LOUVER	M MAR MAS MAX MAT MB MBR MC MECH MEMB METMTL MFR MH MIN MIRR MISC MLDG MR MO MS MTD MTG MTL MUL MUN	MALE MARBLE MASONRY MAXIMUM MATERIAL MACHINE BELT MASTER BEDROOM MEDICINE CABINET MECHANICAL MEMBRANE METAL MANUFACTURER MANHOLE; MOP HOLDER MINIMUM MIRROR MISCELLANEOUS MOLDING MOISTURE RESISTANT MASONRY OPENING MOP SINK MOUNTED MOUNTING METAL MULLION MUNTIN
A A/C AB ABBREV ABV AC ACC ACP ACCU ACT ACOUS AD ADD ADDL ADJ ADJA AFF AGGR AHU AL/ALUM ALT ANOD AP APPROX ARCH ASB ASPH	AIR CONDITIONING ANCHOR BOLT ABBREVIATION ABOVE ASPHALT CONCRETE ACCESSIBLE ACOUSTIC PANEL AIR COOLED CONDENSING UNIT ACOUSTICAL TILE ACOUSTICAL AREA DRAIN ADDITIVE, ADDENDUM ADDITIONAL ADJUSTABLE ADJACENT ABOVE FINISH FLOOR AGGREGATE AIR HANDLING UNIT ALUMINUM ALTERNATE ANODIZED ACCESS PANEL APPROXIMATE ARCHITECTURAL ASBESTOS ASPHALT	F FA FAB FAWP FB FCU FD FDN FE FEC-S FEC-SR FEC-R FF FFE FF&E FHC FIN FIXT FLR FLASH'G FLDG FLUOR	FEMALE FIRE ALARM FABRICATE FLUID APPLIED WATERPROOFING FLAT BAR FAN COIL UNIT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET-SURFACE FIRE EXTINGUISHER CABINET-SEMI RECESSED FIRE EXTINGUISHER CABINET-RECESSED FINISH FLOOR FINISH FLOOR ELEVATION FURNITURE, FIXTURE & EQUIPMENT FIRE HOSE CABINET FINISH FIXTURE FLOOR FLASHING FOLDING FLUORESCENT	M MAR MAS MAX MAT MB MBR MC MECH MEMB METMTL MFR MH MIN MIRR MISC MLDG MR MO MS MTD MTG MTL MUL MUN	MALE MARBLE MASONRY MAXIMUM MATERIAL MACHINE BELT MASTER BEDROOM MEDICINE CABINET MECHANICAL MEMBRANE METAL MANUFACTURER MANHOLE; MOP HOLDER MINIMUM MIRROR MISCELLANEOUS MOLDING MOISTURE RESISTANT MASONRY OPENING MOP SINK MOUNTED MOUNTING METAL MULLION MUNTIN	N NIC NO NOM NTS	NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE
B BATHRM BD BITUM BLDG BLK BLKG BLVD BM BOH BOT BR BRG BRKT BS BTWN BUR	BATHROOM BOARD BITUMINOUS BUILDING BLOCK BLOCKING BOULEVARD BEAM BACK OF HOUSE BOTTOM BEDROOM BEARING BRACKET BOTH SIDES BETWEEN BUILT-UP ROOFING	F FA FAB FAWP FB FCU FD FDN FE FEC-S FEC-SR FEC-R FF FFE FF&E FHC FIN FIXT FLR FLASH'G FLDG FLUOR	FEMALE FIRE ALARM FABRICATE FLUID APPLIED WATERPROOFING FLAT BAR FAN COIL UNIT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET-SURFACE FIRE EXTINGUISHER CABINET-SEMI RECESSED FIRE EXTINGUISHER CABINET-RECESSED FINISH FLOOR FINISH FLOOR ELEVATION FURNITURE, FIXTURE & EQUIPMENT FIRE HOSE CABINET FINISH FIXTURE FLOOR FLASHING FOLDING FLUORESCENT	N NIC NO NOM NTS	NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE	O OA OBS OC OD OFCI OFD OFF OFOI OH OI QPNG OPP OVHD	OVERALL OBSCURED ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED OVERFLOW DRAIN OFFICE OWNER FURNISHED OWNER INSTALLED OVERHANG OWNER INSTALLED OPENING OPPOSITE OVERHEAD
C CAB CB CEM CEM PLAS CER CG CI CIP CJ CLG CLO CLR CMU CNTR CO COL CONC COND CONN CONSTR CONT COORD CONTR COP CORR COTD CPT CRM CT CTR CTSK CW	CABINET CATCH BASIN CEMENT CEMENT PLASTER CERAMIC CORNER GUARD CAST IRON CAST IN PLACE CONSTRUCTION OR CONTROL JOINT CEILING CLOSET CLEAR CONCRETE MASONRY UNITS COUNTER CLEAN OUT; CASSED OPENING COLUMN CONCRETE CONDITION CONNECTION CONSTRUCTION CONTINUOUS; CONTINUE COORDINATE CONTRACTOR COPPER CORRIDOR CLEAN OUT TO DRAIN CARPET CONC RUBBLE MASONRY CERAMIC TILE CENTER COUNTERSINK COLD WATER	G GA GALV GB GFRC GI GL GLULAM GND GR GRN GS GWB GYP	GAUGE GALVANIZED GRAB BAR GLASS FIBER REINFORCED CONCRETE GALVANIZED IRON GLASS GLUE LAMINATED WOOD BEAM GROUND GRADE GRANITE GYPSUM SHEATHING GYPSUM WALL BOARD GYPSUM	P PC PD PERIM PL PLAM PLAS PLBG PLYWD PNL PR PRCST PREFAB PREP PROP PSF PT PTDR PTN PIP PV PVC PVMT	PIECE PLANTER DRAIN PERIMETER PLATE PLASTIC LAMINATE PLASTER PLUMBING PLYWOOD PANEL PAIR PRECAST PREFABRICATE PREPARATION PROPERTY POUNDS PER SQUARE FOOT PAINT, POINT PAPER TOWEL DISPENSER AND RECEPTACLE POURED IN PLACE PHOTOVOLTAIC POLYVINYL CHLORIDE PAVEMENT	Q QT	QUARRY TILE
D DA DBL DD DECOR DEFS DEMO DEPT DET DF DIA DIAG DIM DISP DN DPTN DR DS DSP DW	DRYER; DEEP; DEPTH DOUBLE ACTING DOUBLE DECK DRAIN DECORATIVE DIRECT EXTERIOR FINISH SYSTEM DEMOLITION; DEMOLISH DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIAGRAM DIMENSION DISPENSER DOWN DEMOUNTABLE PARTITION DOOR DOWNSPOUT DRY STANDPIPE DISHWASHER	H HB HC HD HDCP HDWD HDWE HT HM HORIZ HR HS HT HP HVAC	HIGH HOSE BIBB HOLLOW CORE HEAD HANDICAPPED HARDWOOD HARDWARE HEIGHT HOLLOW METAL HORIZONTAL HOUR; HANDRAIL HAND SINK HEIGHT HIGH POINT HEATING, VENTILATION & AIR CONDITIONING	R RAD RB RC RD REBAR REC REF REFL REFER REINF REQD RESIL REV RF RFG RGH RGTR RH RM RND RO RWC RWD RWL	RISER, RADIUS RADIUS RESILIENT BASE RAIN CHAIN ROOF DRAIN REINFORCING BAR RECESSED REFERENCE REFLECTED REFRIGERATOR REINFORCED OR REINFORCING REQUIRED RESILIENT REVISED, REVISION OR REVERSED ROOF, RESILIENT FLOOR ROOFING ROUGH REGISTER ROBE HOOK, RIGHT HAND ROOM ROUND ROUGH OPENING RAIN WATER CONDUCTOR REDWOOD RAIN WATER LEADER	S SA	SOUTH SINGLE ACTING

SYMBOLS

DRAWING DESIGNATION / TITLES

COLUMN LINE / GRID LINE

BUILDING SECTION

WALL SECTION OR DETAIL SECTION

DETAIL

SECTION / DETAIL CALLOUT

MATCHLINE

ROOM TAG

AREA TAG

ELEVATION CHANGE

SLOPE

TYP JAMB CONDITION (UNO)

DIMENSIONS

FIRE EXTINGUISHER CABINET

DOOR MARK

WINDOW TYPE (no. desig.)

LOUVER MARK (letter desig.)

PARTITION MARK

KEYNOTE MARK

REVISION

REVISION CLOUD

FINISH CEILING ELEVATION CHANGE

WORKING POINT, CONTROL POINT OR DATUM POINT

WPT / CONTROL PT OR DATUM POINT

POINT ELEVATION

ELEVATION CALL OUT

ELEVATION CALL OUT

ELEVATION CALL OUT

ELEVATION CALL OUT

ELEVATION CALL OUT

5'-0" ADA TURNING CIRCLE

ADA MOBILITY UNIT

ADA HEARING IMPAIRED UNIT

KEY TO INTERIOR ELEVATIONS

NORTH ARROW

G70

111 S. KING STREET, SUITE 170
HONOLULU, HI 96813
808.523.5866
WWW.G70.DESIGN

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License Expiration Date

PROJECT TITLE

HHSC KAUAI RENOVATIONS

KVMH COVID LAB

FILENAME:
C:\Users\kendylm\Documents\KVMH-CT_A18_Central_kendylm.rvt

DRAWING TITLE
ABBREVIATIONS AND ARCHITECTURAL SYMBOLS

SCALE: As indicated

DRAWN BY: Author	CHECKED BY: Checker
PROJECT NO. 220038-01	DRAWING NO. T004
SHEET ISSUE DATE: 11/30/20	



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FILENAME:

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DRAWING TITLE

OVERALL FLOOR PLAN

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

DRAWN BY:

Author

PROJECT NO.

220038-01

SHEET ISSUE DATE:

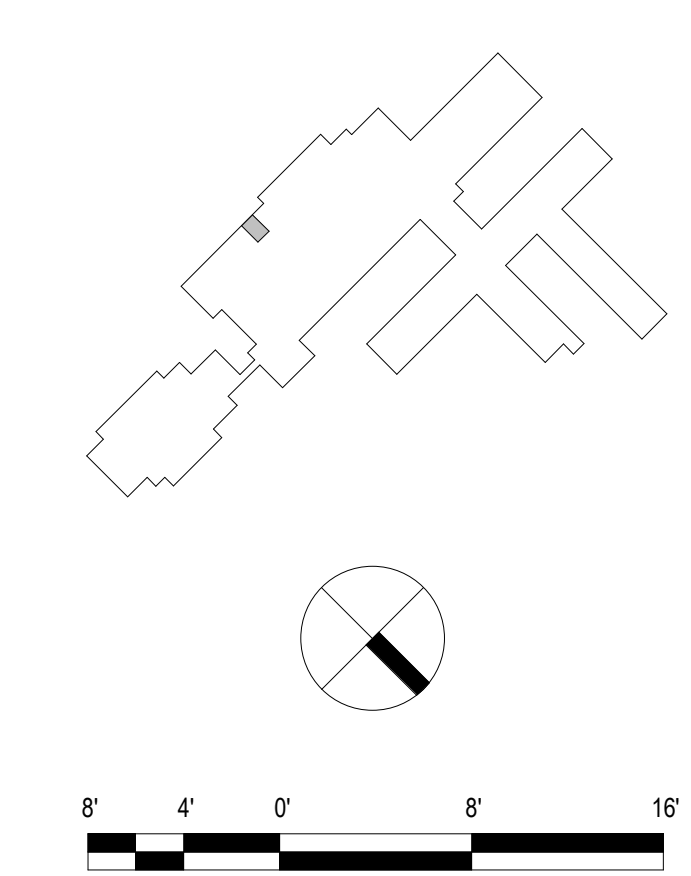
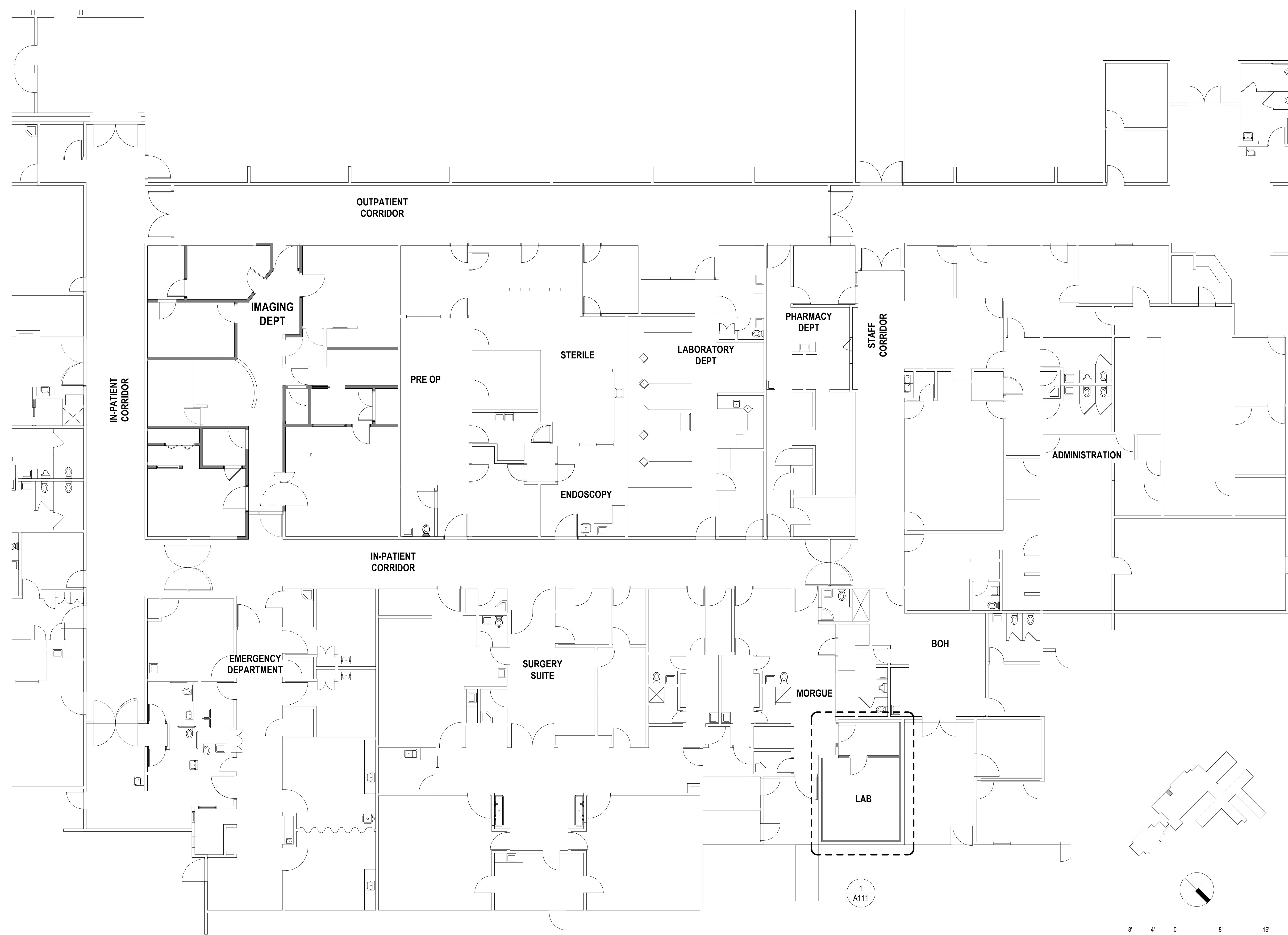
11/30/20

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Checker

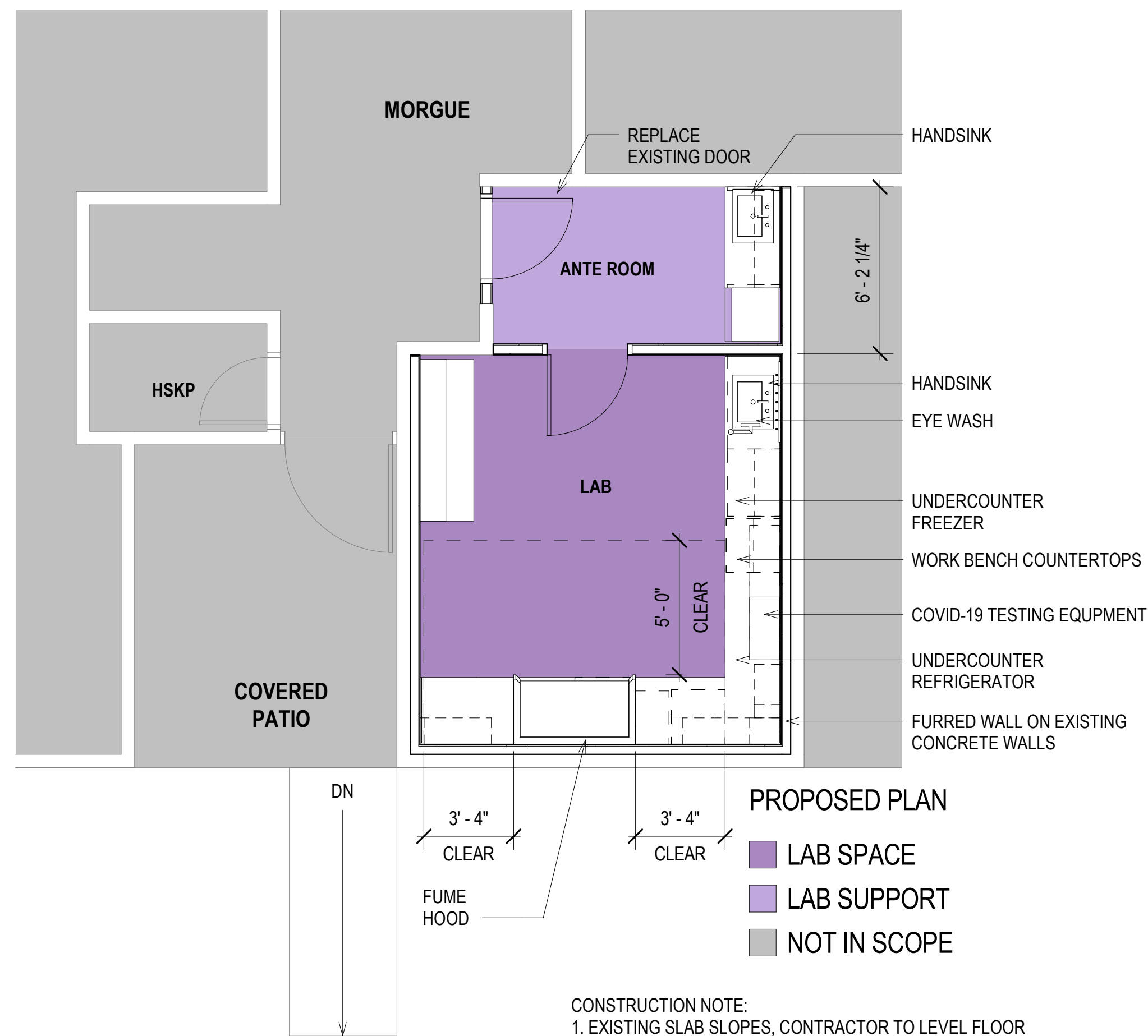
DRAWING NO.

A101

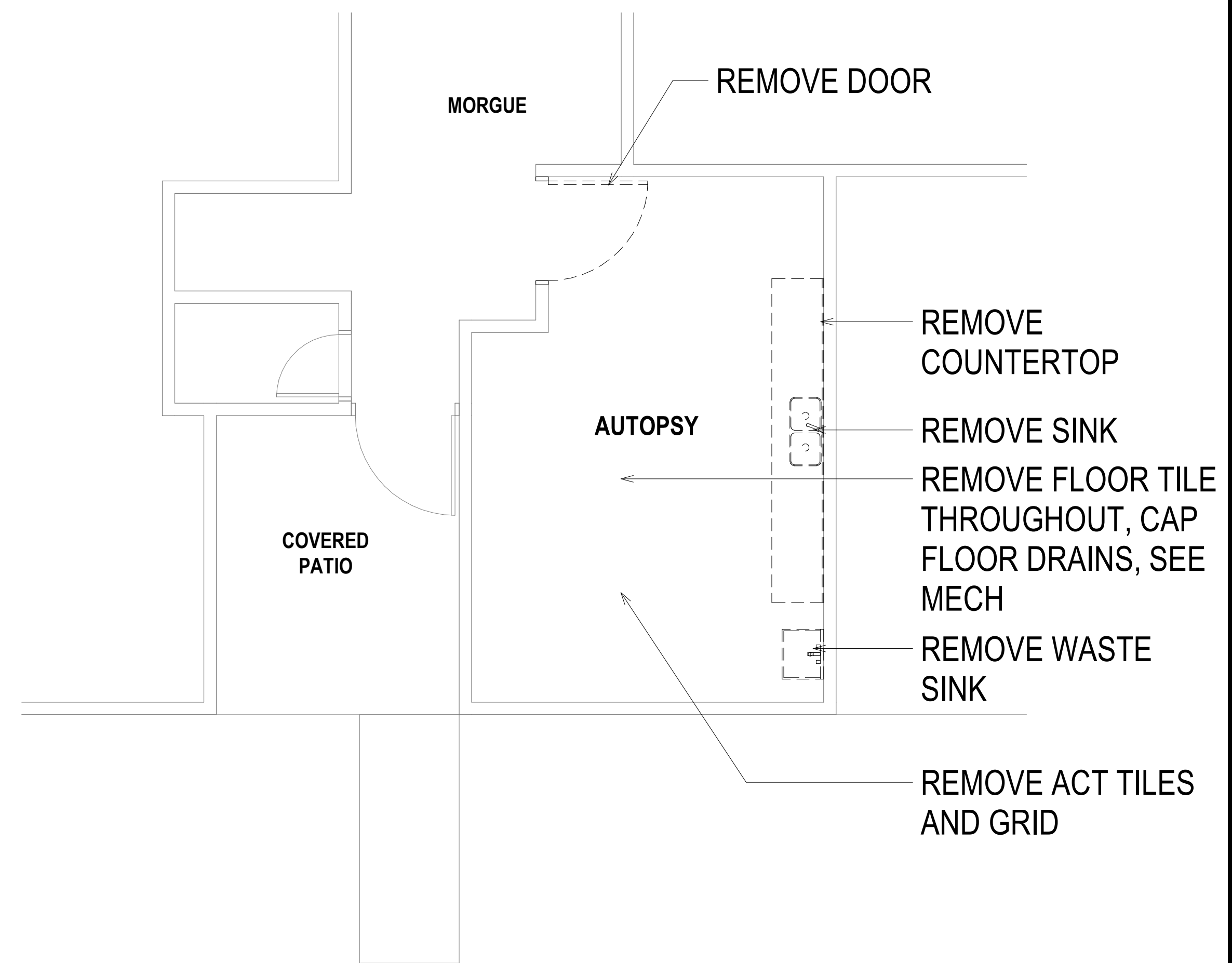


1 OVERALL PLAN
 SCALE: 1/8" = 1'-0"

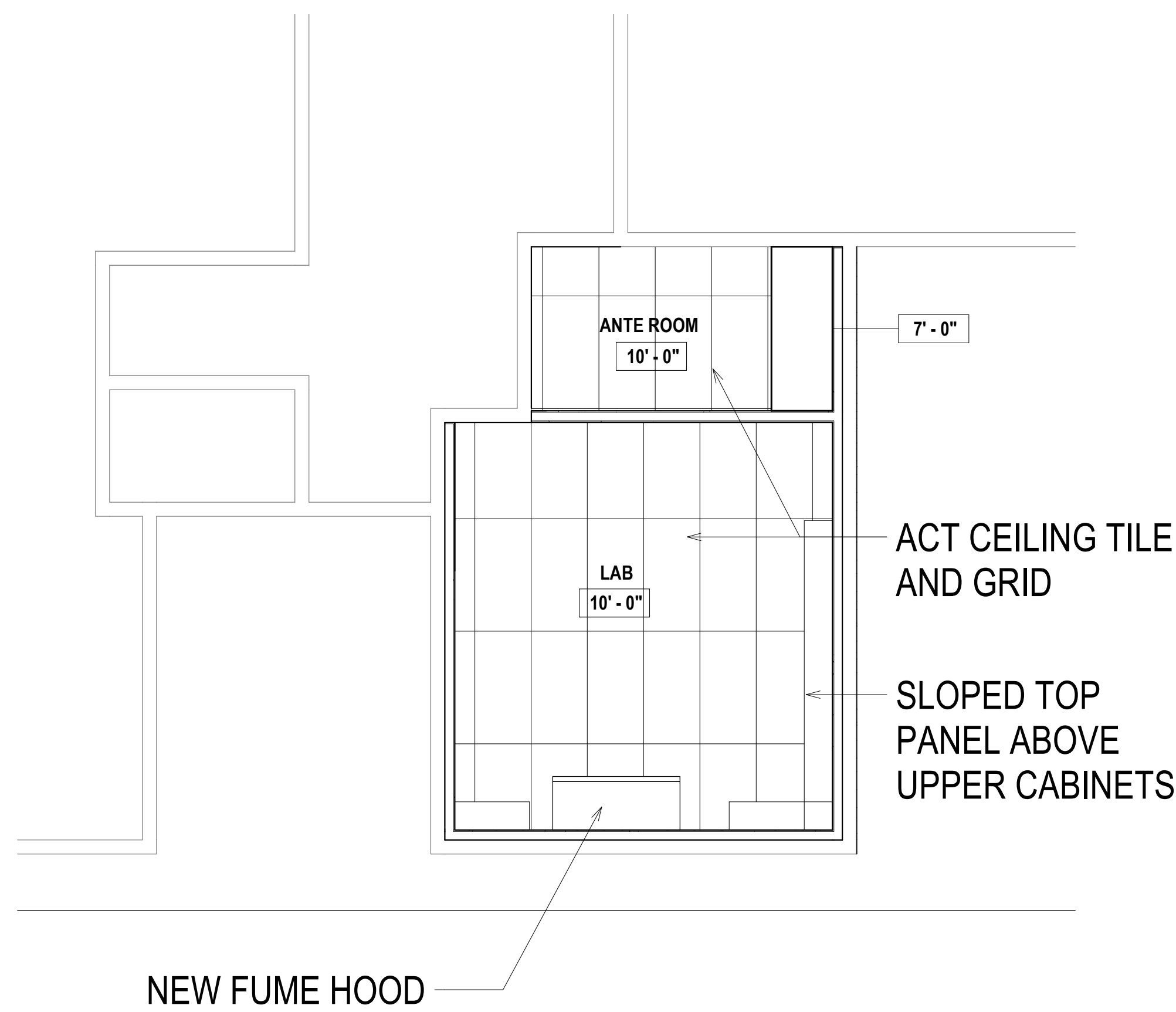
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1 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

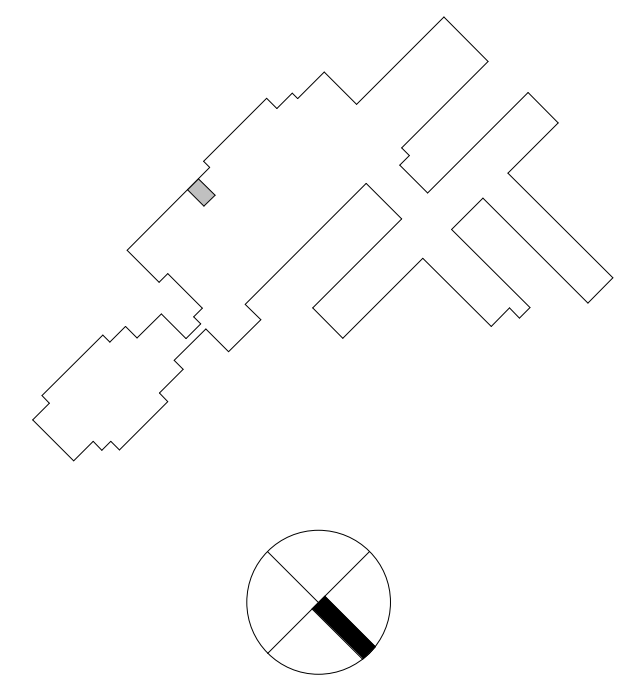


3 ENLARGED DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

- LEGEND**
- CONCRETE MASONRY UNITS
 - CONCRETE
 - METAL STUD WALL



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HHSC KAUAI RENOVATIONS

KVMH COVID LAB

FILENAME:
C:\Users\kendylm\Documents\KVMH-CT_A18_Central_kendylm.rvt

DRAWING TITLE
DEMO FLOOR PLAN, FLOOR PLAN AND REFLECTED CEILING PLAN

SCALE: As indicated

DRAWN BY:
Author

CHECKED BY:
Checker

PROJECT NO.
220038-01

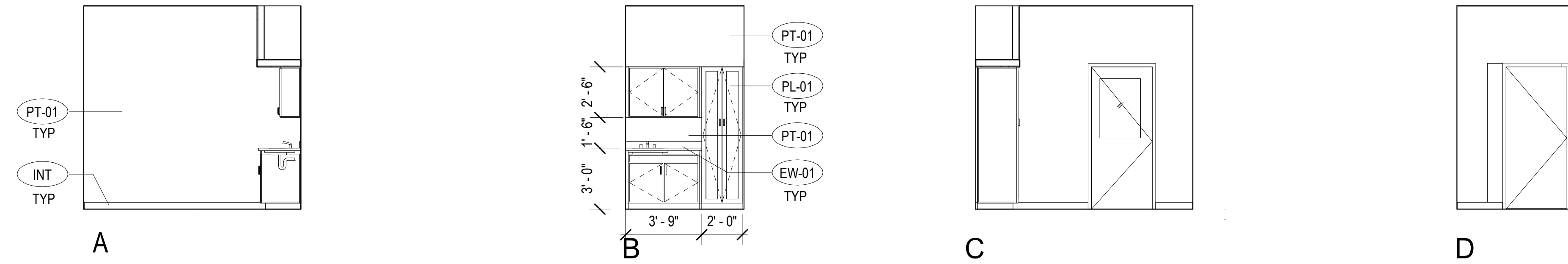
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11/30/20

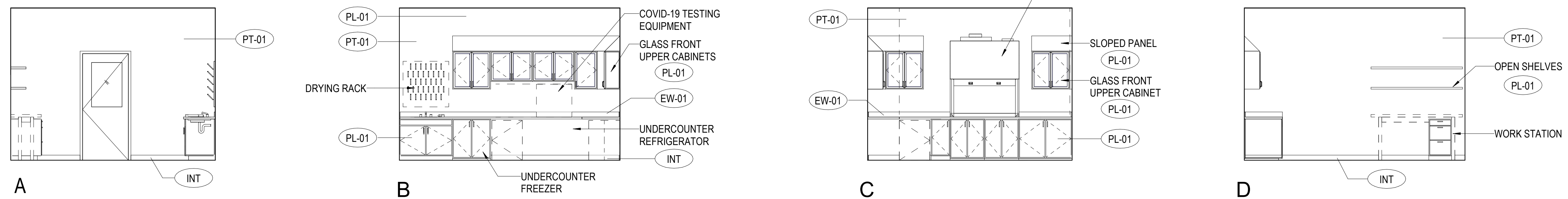
A111



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1 ANTE ROOM INTERIOR ELEVATION
 SCALE: 1/4" = 1'-0"



2 COVID LAB INTERIOR ELEVATIONS
 SCALE: 1/4" = 1'-0"

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KVMH COVID LAB

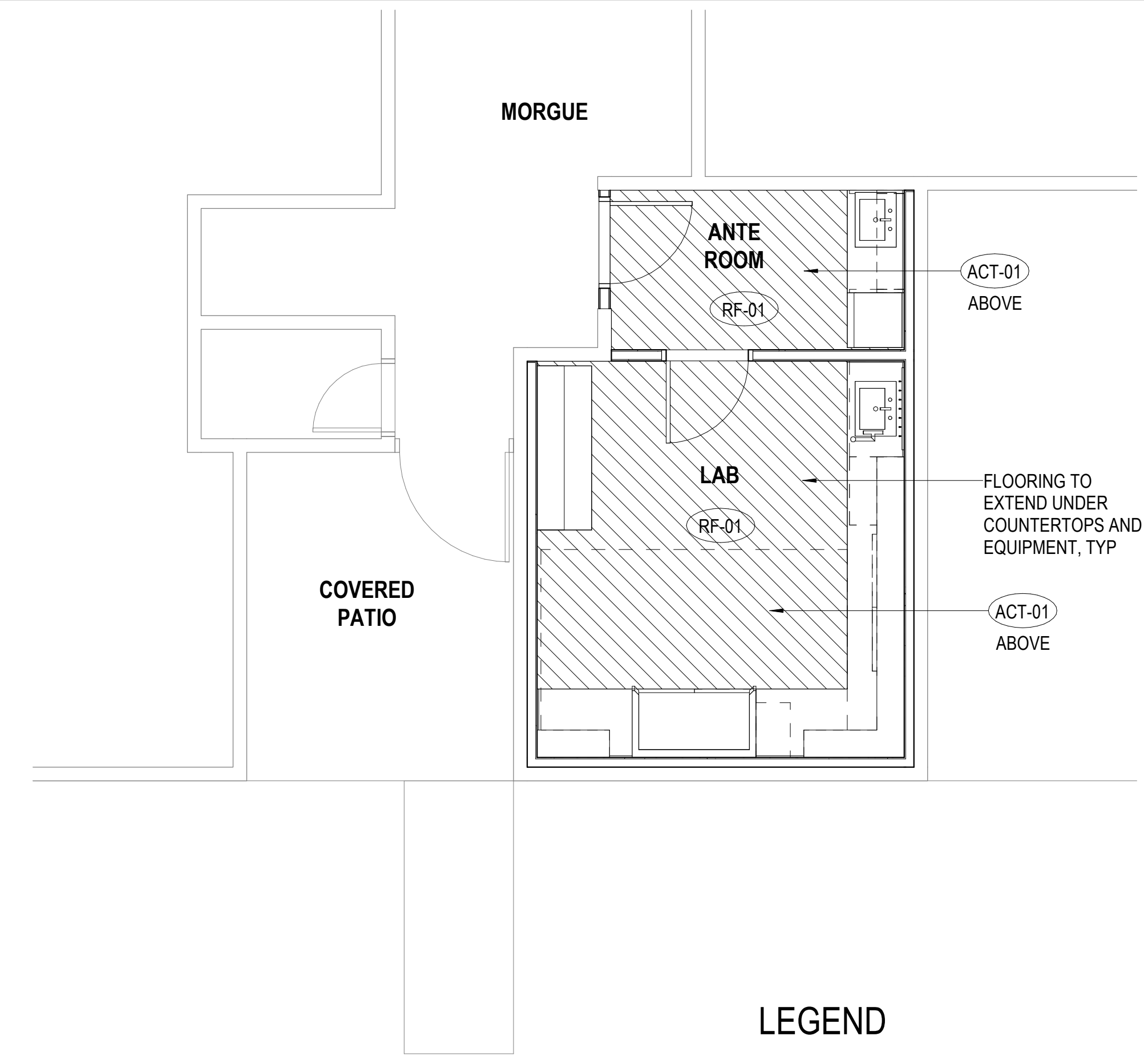
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DRAWING TITLE

INTERIOR ELEVATIONS, FINISH FLOOR PLAN AND COLOR MATERIAL FINISH SCHEDULE

SCALE: As indicated	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT NO. 220038-01	DRAWING NO. A501
SHEET ISSUE DATE: 11/30/20	

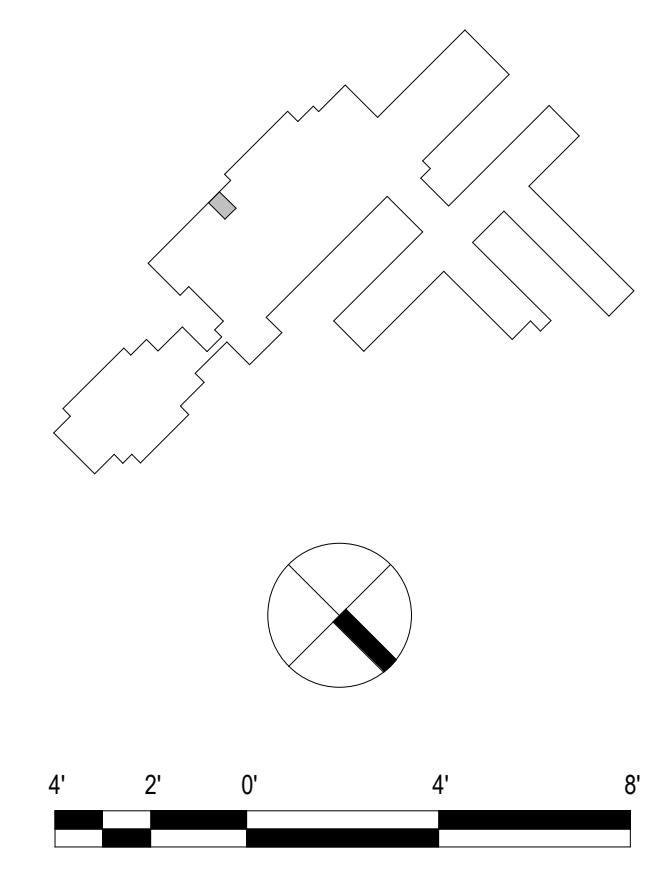
COLOR MATERIAL FINISH SCHEDULE							
MARK	MATERIAL DESCRIPTION	MANUFACTURER	MATERIAL NAME	MATERIAL SIZE	MATERIAL FINISH	NO/COLOR	LOCATION USED/REMARKS
ACT-01	ACOUSTIC CEILING TILE	USG INTERIORS, INC	OPTIMA HEALTH ZONE	24"x48"		STANDARD WHITE	ANTE ROOM, LAB ROOM
EW-01	EPOXY RESIN WORKSURFACE	DURCON INTERNATIONAL	CLASSICTOP WORKSURFACES	1-1/2" THICKNESS	TBD	TBD	ANTE ROOM, LAB ROOM
INT	INTEGRAL BASE	ARMSTRONG FLOORING	--	--	--	--	ANTE ROOM, LAB ROOM
PL-01	PLASTIC LAMINATE	WILSONART	--	--	TBD	TBD	ANTE ROOM, LAB ROOM
PT-01	WALL PAINT	BENJAMIN MOORE	ULTRA SPEC SCRUFF-X	--	EGGSHELL	TBD	ANTE ROOM, LAB ROOM
RF-01	RESILIENT SHEET FLOORING	ARMSTRONG FLOORING	MEDIN PURE	6'-7" WIDE ROLL	DIAMOND 10 TECHNOLOGY COATING	TBD	ANTE ROOM, LAB ROOM



3 FINISH FLOOR PLAN
 SCALE: 1/4" = 1'-0"

LEGEND

SHEET VINYL



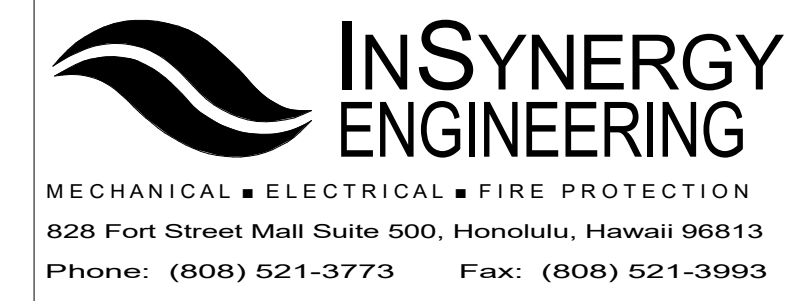
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MECHANICAL GENERAL NOTES:

- EXAMINE THE PROJECT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, RECONNECTION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE CONTRACTING OFFICER FOR ANY MAJOR DEVIATIONS DUE TO TO UNFORESEEN OR VARYING FIELD CONDITIONS. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE SUBCONTRACTOR HAS VISITED THE SITE AND HAS RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK MADE NECESSARY BY THE SUBCONTRACTOR'S FAILURE TO DO SO.

MECHANICAL LEGEND

SYMBOL	ABBRV.	DESCRIPTION	SYMBOL	ABBRV.	DESCRIPTION
	ADJ	ADJUSTABLE		MCC	MOTOR CONTROL CENTER
	AHU	AIR HANDLING UNIT		(N)	NEW
	AUX	AUXILLIARY		NO	NORMALLY OPEN
		BALL VALVE		NC	NORMALLY CLOSED
	BDD	BACK DRAFT DAMPER		OWS	OPERATOR WORKSTATION
	BV	BUTTERFLY VALVE		POR	POINT OF REMOVAL
	CD	CONDENSATE DRAIN		POC	POINT OF CONNECTION
	CDWP	CONDENSER WATER PUMP		SS	START STOP
	CDWS	CONDENSER WATER SUPPLY	\$	SW	SWITCH
	CDWR	CONDENSER WATER RETURN		(R)	RELOCATED
	CH	CHILLER		TC	TIMECLOCK
	CHWP	CHILLED WATER PUMP		TD	TIME DELAY
	CHWR	CHILLED WATER RETURN		TEMP	TEMPERATURE
	CHWS	CHILLED WATER SUPPLY		TS	TEMPERATURE SENSOR
	CR	CONTACT RELAY			THERMOMETER
	CV	CONTROL VALVE			TURNING VANES
	CT	COOLING TOWER		VD	VOLUME DAMPER
	DDC	DIRECT DIGITAL SYSTEM		VFD	VARIABLE FREQUENCY DRIVE
	DGP	DATA GATHERING PANEL			CAPPED/STUBOUT PIPE
(E)	EXIST.	EXISTING		RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
	EA/OA	EXHAUST AIR/OUTSIDE AIR		SD	DUCT SMOKE DETECTOR
	EAG	EXHAUST AIR GRILLE		ST	STORAGE TANK
	EF	EXHAUST FAN			STRAINER
	EMCS/EMS	ENERGY MANAGEMENT CONTROL SYSTEM		T & P	TEMPERATURE AND PRESSURE RELIEF VALVE
	ER	EXHAUST REGISTER			PRESSURE GAUGE
	EXH.	EXHAUST			UNION
	FS	FLOW SWITCH			
	IV	ISOLATION VALVE			
	H-O-A	HAND-OFF-AUTO			
	JCH	JOCKEY CHILLER			
	JCHS	JOCKEY CHILLED WATER SUPPLY			
	JCHWP	JOCKEY CHILLED WATER PUMP			
	LVR	LOUVER			
		MANUAL AIR VENT			
	(M)	MOTOR (ELECTRIC)			



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KAUAI HHSC CT SCANNER RENOVATIONS

KVMH - COVID LAB

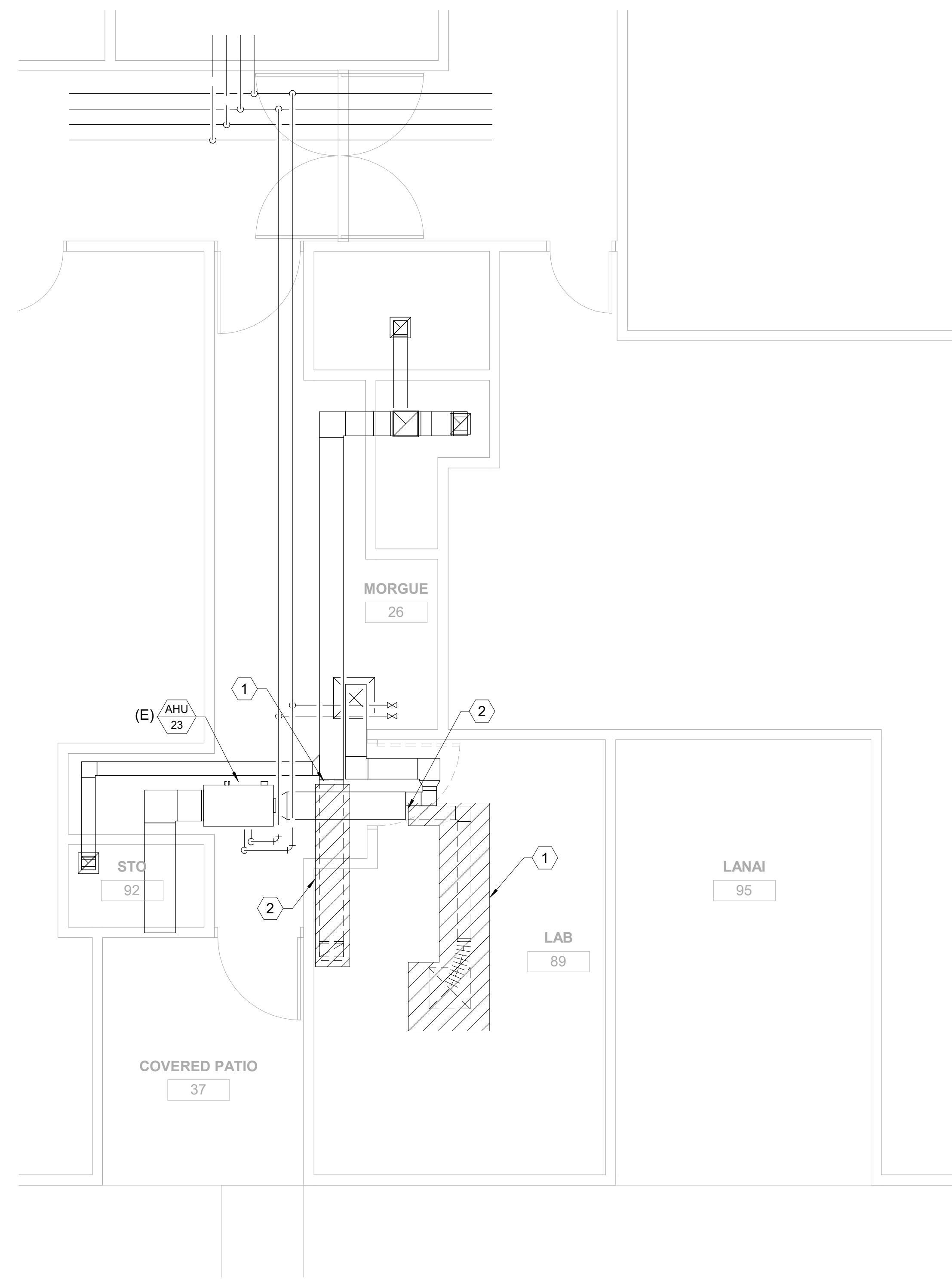
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DRAWING TITLE

MECHANICAL NOTES AND LEGENDS

SCALE: 12" = 1'-0"

DRAWN BY: KW	CHECKED BY: YH
PROJECT NO. 20162	DRAWING NO. M-001
SHEET ISSUE DATE: 12/14/2020	



- KEYED NOTES:**
- ① REMOVE EXISTING DUCTWORK SERVING AUTOPSY ROOM
 - ② POINT OF REMOVAL AND CAP
- (E)

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FILENAME:
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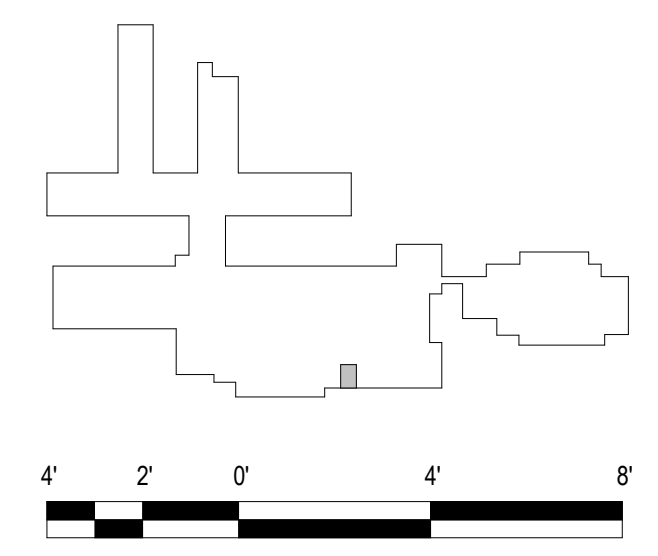
DRAWING TITLE

MECHANICAL DEMOLITION PLAN

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

DRAWN BY: KW	CHECKED BY: YH
PROJECT NO. 20162	DRAWING NO. M-101
SHEET ISSUE DATE: 12/14/2020	

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



DEDICATED OUTDOOR AIR UNIT SCHEDULE

UNIT	AREA SERVED	LOCATION	TYPE	EXTERNAL STATIC PRESSURE (IN WATER)	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	REHEAT CAPACITY (BTU/HR)	FAN								HOT WATER REHEAT COIL					CHILLED WATER COIL			ELECTRICAL	REMARKS			
								DESIGN AIRFLOW (CFM)	EXISTING AIRFLOW (CFM)	RPM	ENTERING DB (°F)	ENTERING WB (°F)	LEAVING CC DB (°F)	LEAVING CC WB (°F)	LEAVING REHEAT COIL (°F)	MOTOR SIZE (HP)	INLET (°F)	OUTLET (°F)	MIN. ROWS	PD (FT)	FLOW (GPM)	INLET (°F)	OUTLET (°F)			MIN. ROWS	PD (FT)	FLOW (GPM)
(E)AHU-23	MORGUE	MORGUE	CAV	1.0	46900	24600	N/A	330	750	1800	87.0	74.0	55.0	54.5	N/A	3/4	N/A	N/A	N/A	N/A	N/A	44.0	54.0	4	8	9	208 / 3 / 60	REBALANCE AHU TO DESIGN AIRFLOW
DOAS-1	COVID LAB	COVID LAB	CAV	1.0	26400	12700	7400	400	N/A	1800	85.0	75.0	55.0	54.5	70.0	2/3	140.0	120.0	6	2	0.7	44.0	54.0	6	8	5	208 / 3 / 60	1,2,3,4

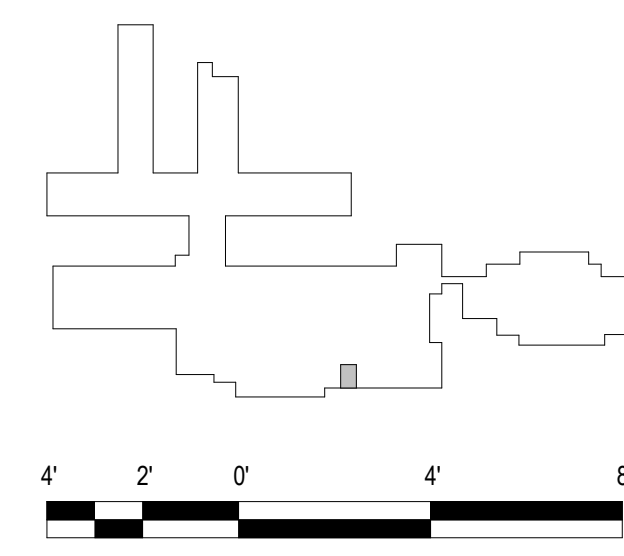
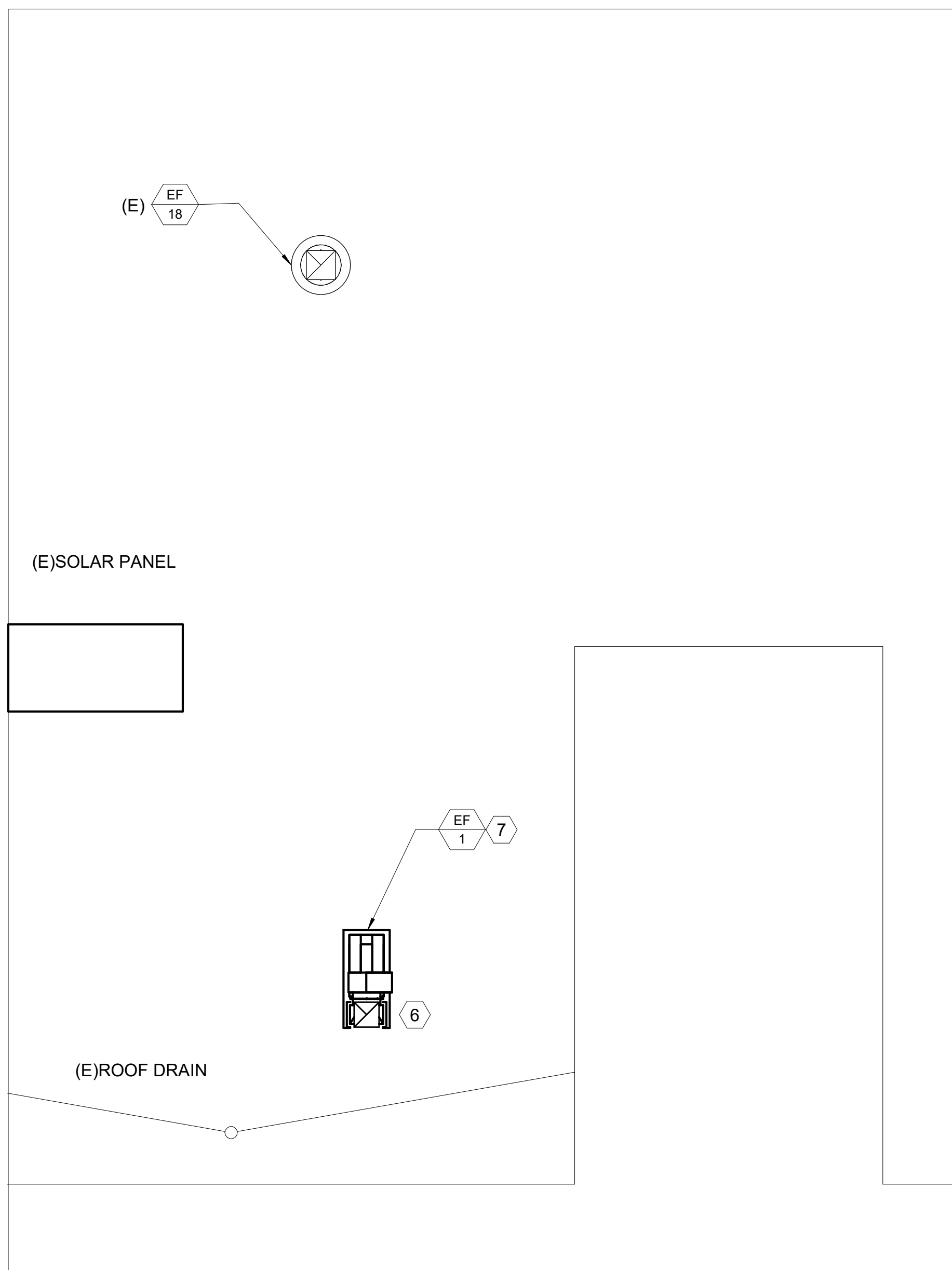
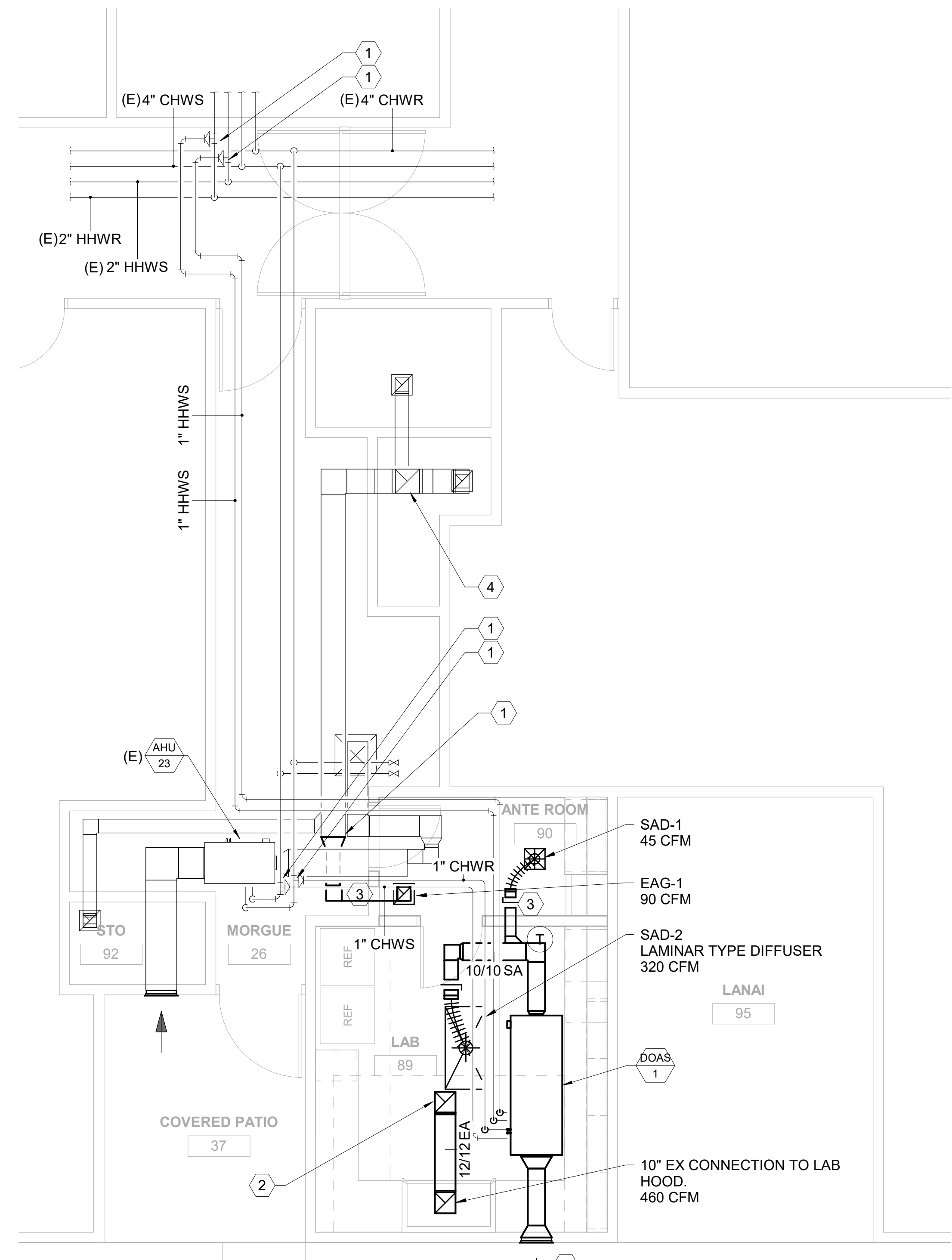
1. PROVIDE WITH INTEGRAL FAN SPRING ISOLATORS
2. VFD WITH SOFT START AND DISCONNECT, INSTALLED BY ELECTRICAL, IN NEMA 1 ENCLOSURE
3. PROVIDE INTEGRAL UV LIGHT AND DOOR SWITCHES
4. PROVIDE MERV 13 FILTER, MERV 8 PREFILTER

FAN SCHEDULE

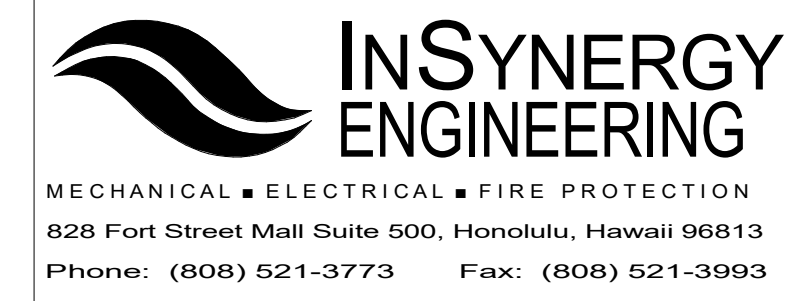
UNIT	AREA SERVED	LOCATION	TYPE	FAN DATA				ELECTRICAL		MAX. DBA	REMARKS
				MOTOR SIZE (HP)	DESIGN AIRFLOW (CFM)	EXISTING AIRFLOW (CFM)	ESP (IN WATER)	V / P / HZ			
(E)EF-18	MORGUE	ROOF	ROOFTOP DOWNBLAST	1/4	330	750	1.0	208 / 3 / 60	-		REBALANCE EF TO DESIGN AIRFLOW
EF-1	COVID LAB	ROOF	CENTRIFUGAL UTILITY FUME EXHAUST FAN	1/4	460	N/A	0.3	208 / 3 / 60	65		PROVIDE VFD IN NEMA 4X ENCLOSURE

KEYED NOTES:

1. CONNECT TO EXISTING SYSTEM
2. 14X14 EA UP TO EF-1 ON ROOF
3. PROVIDE PRESSURE DIFFERENTIAL SENSOR
4. 14X14 UP TO (E)EF-18 ON ROOF
5. 18X12 OA LOUVER
6. 12X12 EA DN TO LAB HOOD
7. PROVIDE VFD IN NEMA 4X ENCLOSURE



1 MECHANICAL NEW WORK PLAN
 SCALE: 1/4" = 1'-0"



#	Date	Description

SCHEMATIC DESIGN
 12/14/2020

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date _____

PROJECT TITLE

KAUAI HHSC CT SCANNER RENOVATIONS

KVMH - COVID LAB

FILENAME:
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DRAWING TITLE

MECHANICAL NEW WORK PLAN

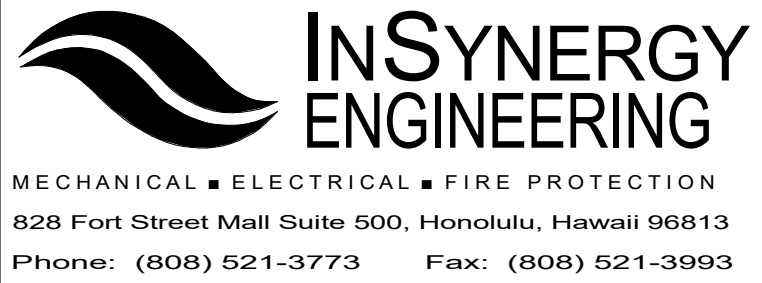
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PROJECT NO. 20162	DRAWING NO. M-201
SHEET ISSUE DATE: 12/14/2020	

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MECHANICAL GENERAL NOTES:

- EXAMINE THE PROJECT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, RECONNECTION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE CONTRACTING OFFICER FOR ANY MAJOR DEVIATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE SUBCONTRACTOR HAS VISITED THE SITE AND HAS RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK MADE NECESSARY BY THE SUBCONTRACTOR'S FAILURE TO DO SO.

PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
	BD	BLOWDOWN
	BT	BATHTUB
—E—		CAP
	CDR	CONDENSATE RETURN
—⊕—	CO	CLEANOUT
—	CW	COLD WATER
	DF	DRINKING FOUNTAIN
	DW	DISHWASHER
	(E)	EXISTING
	EQ	EQUIPMENT
	EWC	ELECTRIC WATER COOLER
⊕	FM	FLOW METER
	HB	HOSE BIBB
	HWR	HOT WATER RETURN
	HWRP	HOT WATER RETURN PUMP
	HW	HOT WATER SUPPLY
	HWST	HOT WATER STORAGE TANK
	HX	HEAT EXCHANGER
	JS	JANITOR SINK
	LAV	LAVATORY SINK
	MPR	MEDIUM PRESSURE CONDENSATE RETURN
	MPS	MEDIUM PRESSURE STEAM
	MS	MOP SINK
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN
⊕ ↻		PIPE UP, TEE DOWN, PIPE DOWN
— —	POC	POINT OF CONNECTION
—■—	POR	POINT OF REMOVAL AND DEMO
—⊕—	PRV	PRESSURE REDUCING VALVE
⊕	PS	PRESSURE SENSOR
	PSI	POUNDS PER SQUARE INCH
	SHO	SHOWER
	SK	SINK
⊕	TS	TEMPERATURE SENSOR
—⊕—	TXV	THERMOSTATIC MIXING VALVE
	UR	URINAL
—	V	VENT
	VTR	VENT THRU ROOF
	WC	WATER CLOSET
—⊕—	WHA	WATER HAMMER ARRESTOR



REVISIONS

#	Date	Description
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12/14/2020

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License Expiration Date

PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

FILENAME:
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M18_kwilliams2519J.rvt

DRAWING TITLE

PLUMBING NOTES AND LEGENDS

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

DRAWN BY: KW	CHECKED BY: YH
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PROJECT NO. 20162	DRAWING NO. P-001
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 License Expiration Date

PROJECT TITLE

KAUAI HHSC CT SCANNER RENOVATIONS

KVMH - COVID LAB

FILENAME:
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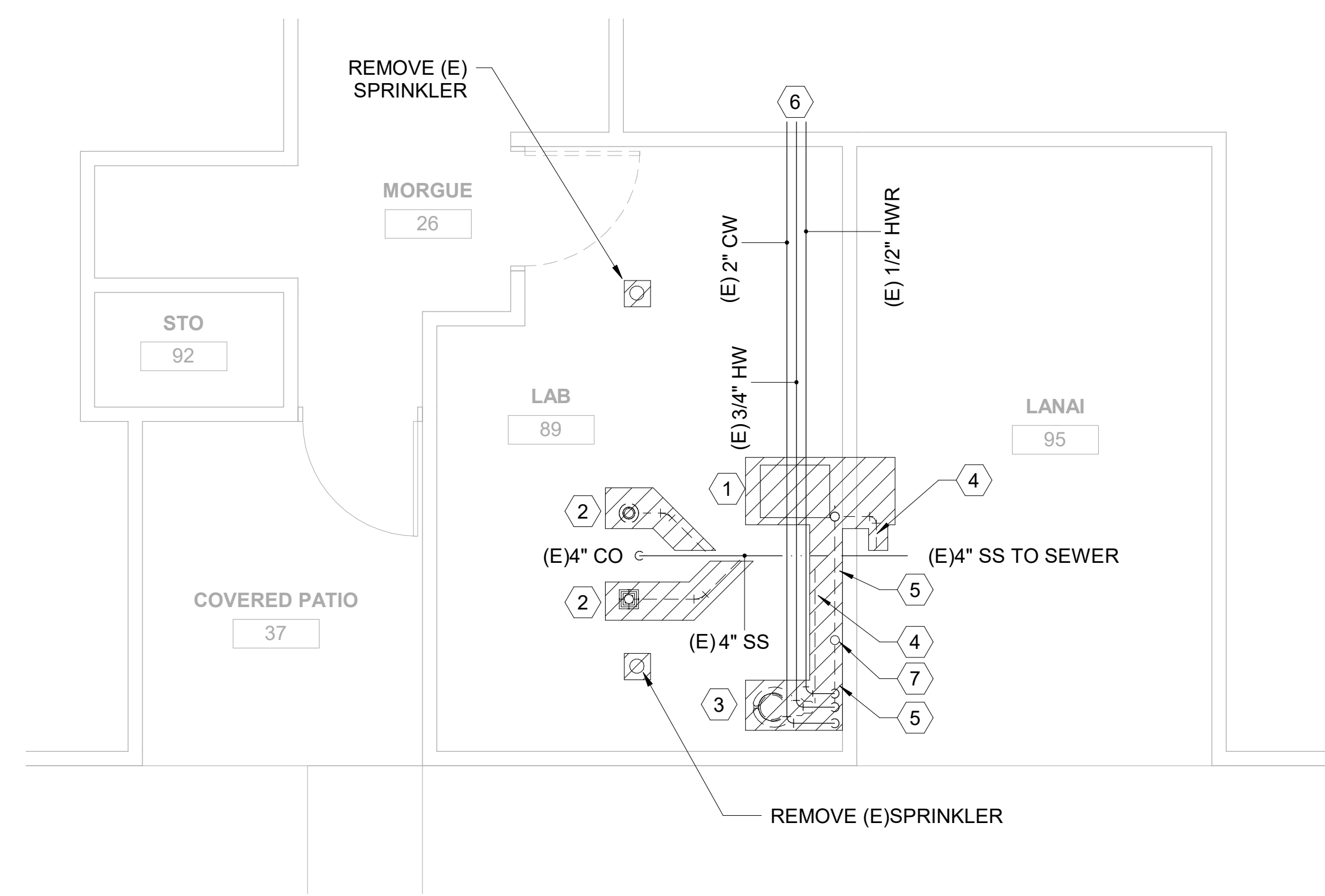
PLUMBING DEMOLITION PLAN

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

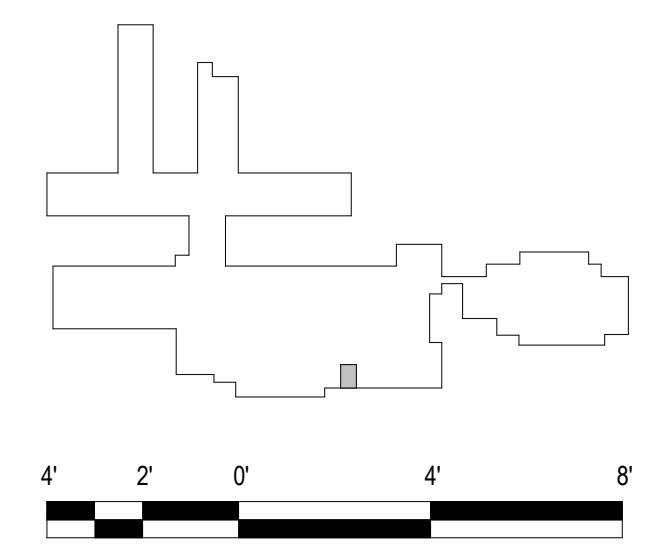
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PROJECT NO. 20162	DRAWING NO. P-101
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SHEET ISSUE DATE: 12/14/2020	
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- KEYED NOTES:**
- ① REMOVE (E) SINK
 - ② REMOVE (E) FLOOR DRAIN AND ASSOCIATED PIPING
 - ③ REMOVE (E) WASTE DISPOSAL UNIT
 - ④ REMOVE SS PIPING
 - ⑤ REMOVE VENT PIPING
 - ⑥ (E) DOMESTIC PIPING, VALVES IN HALLWAY
 - ⑦ REMOVE VENT PIPING THROUGH ROOF. REUSE PENETRATION FOR NEW VTR



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

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PROJECT TITLE

KAUAI HHSC CT SCANNER RENOVATIONS

KVMH - COVID LAB

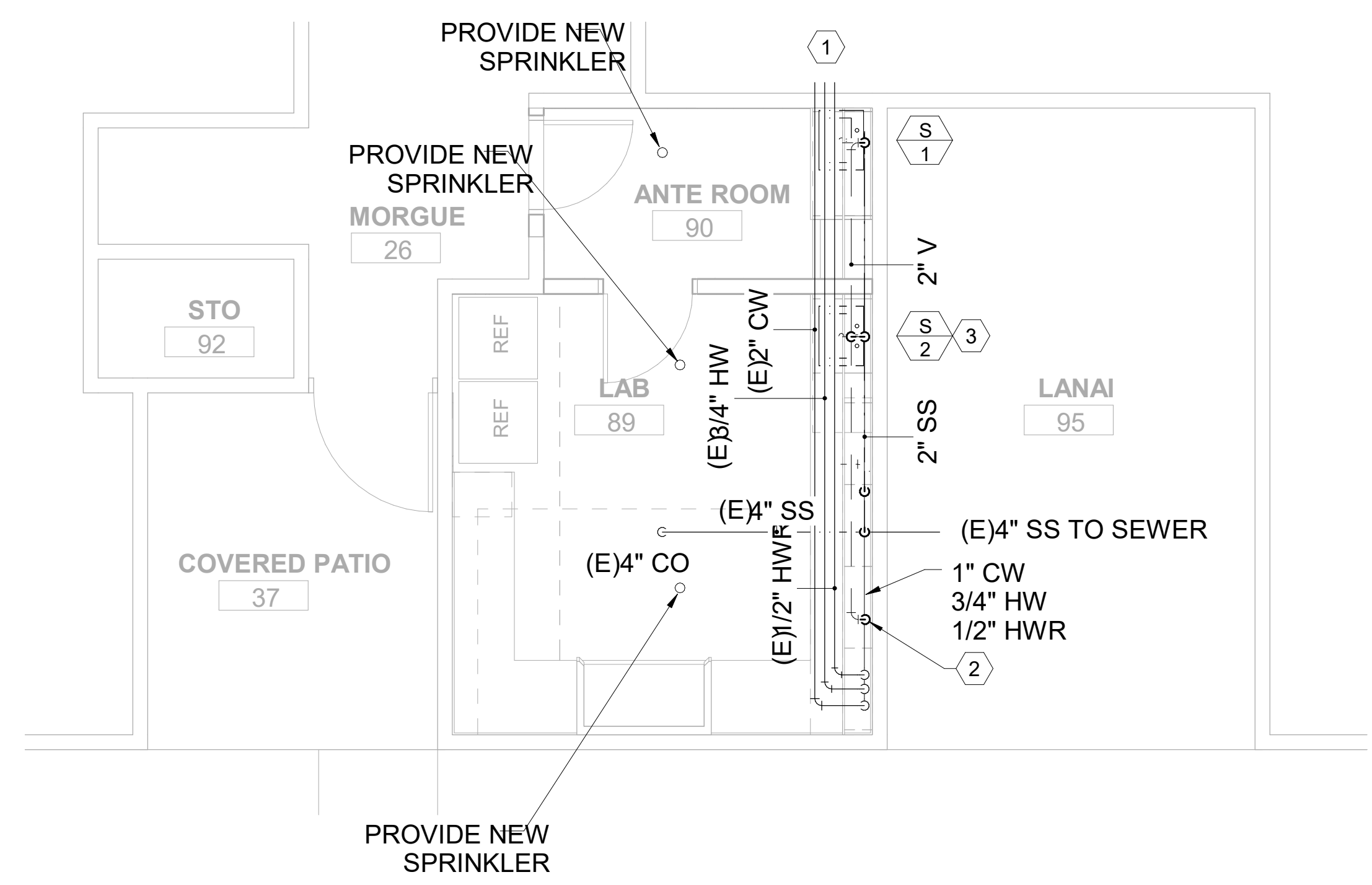
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DRAWING TITLE

PLUMBING NEW WORK PLAN

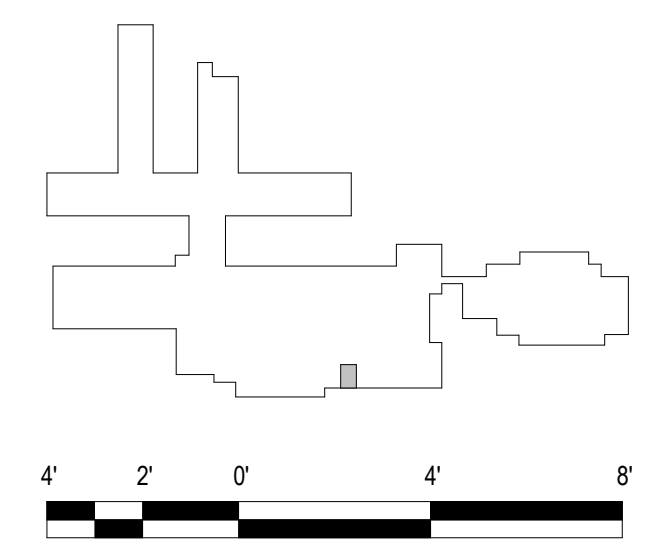
SCALE: 1/4" = 1'-0"

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PROJECT NO. 20162	DRAWING NO. P-102
SHEET ISSUE DATE: 12/14/2020	



- KEYED NOTES:**
- ① (E)DOMESTIC PIPING. VALVES IN HALLWAY
 - ② VTR
 - ③ PROVIDE WITH EMERGENCY EYE WASH

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



ELECTRICAL GENERAL NOTES

1. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS OTHERWISE NOTED. ALL MATERIALS SHALL BE NEW AND "LISTED" OR "LABELED" AS DEFINED BY THE NATIONAL ELECTRIC CODE (NEC). WORK INCLUDES INSTALLATION OF ALL ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL AS LIMITED BY THE INTENT OF THE CONTRACT DOCUMENTS.
2. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC), NATIONAL ELECTRIC SAFETY CODE AND BUILDING ORDINANCES OF THE CITY AND COUNTY OF KAUAI. CONSTRUCTION PRACTICES SHALL CONFORM TO THE LATEST EDITION OF AMERICAN ELECTRICIANS' HANDBOOK BY CROFT, AND APPLICABLE INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIAL SUPPLIED FOR THIS PROJECT.
3. OBTAIN AND PAY FOR BUILDING / ELECTRICAL PERMIT, ARRANGE FOR PERIODIC INSPECTION BY LOCAL AUTHORITIES, AND DELIVER CERTIFICATE OF FINAL INSPECTION THE THE OWNER.
4. SEC. 18-5.2 RETENTION OF PLANS: ONE SET OF APPROVED PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL BE RETAINED BY THE BUILDING OFFICIAL FOR A PERIOD OF NOT LESS THAN 90 DAYS FROM DATE OF COMPLETION OF THE WORK COVERED THEREIN, AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT, AND SAID SET SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES DURING WHICH THE WORK AUTHORIZED THEREBY IS IN PROGRESS. (SEC. 18-5.2 R.O 1978 (1983 ED.); AM. ORD. 93-59).
5. STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND NFPA 1 2012, AS AMENDED.
6. FIRE SAFETY DURING ALTERATION :
 - a. 16.4.4.1 WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.
 - b. 16.4.4.2 WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF THE FIRE PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.
 - c. 16.4.4.3 WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE ALTERNATE MEASURES OF PROTECTION UNTIL THE SYSTEM IS RETURNED TO SERVICE.
 - d. 10.8.1.1 AS NECESSARY DURING EMERGENCIES, MAINTENANCE, DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATIONS, PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM SHALL BE PERMITTED TO BE MADE INOPERATIVE OR INACCESSIBLE. A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN SECTIONS 13.3.3.6.5.2(4)(b), 13.7.1.4.4, 16.5.4, 34.6.3.3, 41.2.2.6, 41.2.2.7, 41.2.4, 41.3.5, 41.4.1, 34.5.4.3, AND 25.1.8 AT NO COST TO THE AHJ. NFPA 1 2012, AS AMENDED.
7. THE DRAWINGS DO NOT REFLECT ALL THE EXISTING CONDITIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE EXTENT OF ANY DEMOLITION, RELOCATION, RECONNECTION, AND THE NEW WORK PRIOR TO THE START OF ON-SITE CONSTRUCTION ACTIVITIES. REPORT ANY DISCREPANCIES AND/OR DIFFERENCES BETWEEN THE EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS TO THE ARCHITECT. RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE AND RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK REQUIRED BY THE CONTRACTOR'S FAILURE TO DO SO.
8. COORDINATE ALL ELECTRICAL WORK WITH THE WORK OF THE OTHER TRADES AND SCHEDULE WORK TO MINIMIZE THE NUMBER AND DURATION OF ELECTRICAL OUTAGES AND IMPACT TO THE OPERATIONS IN OR ADJACENT TO THE PROJECT AREA. COORDINATE ACCESS TO THE PROJECT AREA AND SCHEDULE ALL REQUIRED SYSTEM OUTAGES WITH THE OWNER.
9. VERIFY AND COORDINATE ALL PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. OBTAIN APPROVAL BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS OR FIRE RATED WALLS AND CEILINGS.
10. SCAN (E.G. X-RAY, ELECTROMAGNETIC, ETC.) ALL CONCRETE WALLS OR FLOOR STRUCTURES PRIOR TO COMMENCING WITH CORING/DRILLING WORK FOR PENETRATIONS TO AVOID DAMAGING THE EXISTING REINFORCING STEEL.
11. COORDINATE AND PROVIDE ACCESS PANELS FOR ALL CONCEALED ELECTRICAL EQUIPMENT, DEVICES, BOXES AND CONDUIT BODIES SO THAT THEY ARE ACCESSIBLE.
12. EXISTING DEVICE AND EQUIPMENT LOCATIONS, CIRCUIT ASSIGNMENTS, WIRING CONNECTIONS, AND CONDUIT RUNS INDICATED WERE DERIVED FROM AVAILABLE REFERENCE DOCUMENTS AND LIMITED FIELD INVESTIGATION. FIELD VERIFY ALL EXISTING CONDITIONS AND MAKE ANY NECESSARY ADJUSTMENTS TO SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
13. RE-ROUTE ALL EXISTING CONDUIT, WIRING AND CABLING TO REMAIN WITHIN THE PROJECT AREA AS NECESSARY TO FACILITATE THE REMOVAL OF EXISTING EQUIPMENT AS WELL AS THE INSTALLATION OF ALL NEW EQUIPMENT. REMOVE AND RE-INSTALL ELECTRICAL EQUIPMENT, INCLUDING LIGHTS, TO REMAIN AS REQUIRED.
14. WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO IN THE CONTRACT DOCUMENTS. SHALL BE FURNISHED AND PERFORMED BY THE COONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. AN EXAMPLE OF SUCH INCIDENTAL WORK ARE JUNCTION BOXES AND PULL BOXES REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT. ALL INCIDENTAL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
15. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING FOR THE POWER CONNECTION TO ALL EQUIPMENT AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. ALL INCIDENTAL CONDUIT AND WIRING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM MAY NOT BE SHOWN IN THE DRAWINGS OR SPECIFICATIONS. CONTRACTOR SHALL COORDINATE INCIDENTAL CONDUIT AND WIRING REQUIREMENTS BETWEEN ALL TRADES TO ENSURE THE INCIDENTAL CONDUIT AND WIRING IS PROVIDED AND THE AFFECTED SYSTEMS OPERATE AS INTENDED.
16. THE LOCATION OF THE ELECTRICAL APPARATUS AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND BEFORE INSTALLING, STUDY THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DETAILS AND MAKE INSTALLATION IN THE MOST LOGICAL MANNER. CIRCUIT ROUTING IS TYPICAL AND MAY BE VARIED IN ANY MANNER. ANY PIECE OF EQUIPMENT/DEVICE MAY BE RELOCATED WITHIN 10' BEFORE INSTALLATION AT THE DIRECTION OF THE ARCHITECT WITHOUT ADDITIONAL CHARGE TO THE PROJECT.
17. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF THE PROJECT'S WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE AN ALTERNATE METHOD TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS TO REFLECT THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION SHALL NOT BE CONSIDERED AN ITEM FOR EXTRA COST.
18. DISCONNECT AND REMOVE ALL ELECTRICAL APPARATUS, LIGHT FIXTURES, WIRING DEVICES, JUNCTION BOXES, AND ASSOCIATED FEEDER AND BRANCH CIRCUIT WIRING IN THE PROJECT AREA, UNLESS OTHERWISE NOTED. THE DEMOLITION DRAWINGS ARE INTENDED TO SHOW THE GENERAL LIMITS OF THE SCOPE OF WORK AND MAY NOT SHOW ALL THE EXISTING DEVICES, CONDUIT RUNS, ETC. FEEDER AND BRANCH CIRCUIT WIRING TO BE REMOVED SHALL BE DISCONNECTED FROM ITS SOURCE. REMOVE ALL CONDUCTORS AND CONDUIT AND CONDUIT SUPPORT STRUCTURES WHERE ACCESSIBLE. PATCH/REPAIR WALL, FLOOR AND CEILING DAMAGES AS A RESULT OF THE REMOVAL WORK.
19. THE EXISTING ELECTRICAL, TELECOM, FIRE ALARM, AND OTHER ELECTRICALLY-RELATED SYSTEMS IN AREAS ADJACENT TO, OUTSIDE OF, AND/OR OTHERWISE PASSING THROUGH THE PROJECT LIMITS, MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD AND POST-CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION WHEN WORKING NEAR ANY EXISTING EQUIPMENT, DEVICES, OR CABLING/CIRCUITING. PROVIDE NEW JUNCTION BOXES, CONDUITS & WIRING, AND THE LABOR REQUIRED TO FACILITATE THE REQUIRED OPERATIONAL CONTINUITY. BOXES, CONDUITS AND WIRING SHALL BE IN ACCORDANCE WITH THE NEC. ANY DAMAGE TO THE EXISTING EQUIPMENT, DEVICES OR CABLING/CIRCUITING RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR OTHERWISE RESTORED TO ITS ORIGINAL WORKING CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
20. THE ELECTRICAL DRAWINGS ARE BASED ON PROPOSED EQUIPMENT. VERIFY ALL SYSTEM REQUIREMENTS (ELECTRICAL, MECHANICAL, FIRE ALARM, SPECIALTY SYSTEMS, ETC.) WITH THE SELECTED SYSTEM'S MANUFACTURER OR AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WITH ANY WORK. COORDINATE RATINGS OF OVERCURRENT PROTECTION DEVICES, DISCONNECT SWITCHES, CONDUIT & WIRING TO MATCH THE ACTUAL EQUIPMENT SUPPLIED FOR THE PROJECT. CORRECT ALL DISCREPANCIES SO AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. RECORD CHANGES ON THE AS-BUILT DRAWINGS.
21. ALL EQUIPMENT AND APPARATUS SHALL BE CAPABLE OF FITTING IN THE SPACES SHOWN WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS AND APPLICABLE CODE REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ARCHITECT OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
22. CONFIRM THE TYPE OF CEILING BEING INSTALLED PRIOR TO ORDERING LUMINAIRES AND TRIMS FOR PROPER COORDINATION. LUMINAIRES INDICATED MAY NOT EXPRESSLY CONFIRM TYPE OF CEILING OR OPENING PROVIDED BY OTHER TRADES.
23. CONCEAL ALL CONDUIT; EXPOSED CONDUITS ARE PERMITTED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. ALL EXPOSED CONDUITS IN FINISHED AREAS SHALL BE INSTALLED IN THE LEAST VISIBLE LOCATIONS. CARE SHALL BE TAKEN TO INSTALL CONDUIT IN THE MOST AESTHETICALLY PLEASING MANNER.

24. THE EXISTING ELECTRICAL, TELECOM, FIRE ALARM, AND OTHER ELECTRICALLY-RELATED SYSTEMS IN AREAS ADJACENT TO, OUTSIDE OF, AND/OR OTHERWISE PASSING THROUGH THE PROJECT LIMITS, MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD AND POST-CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION WHEN WORKING NEAR ANY EXISTING EQUIPMENT, DEVICES, OR CABLING/CIRCUITING. PROVIDE NEW JUNCTION BOXES, CONDUITS & WIRING, AND THE LABOR REQUIRED TO FACILITATE THE REQUIRED OPERATIONAL CONTINUITY. BOXES, CONDUITS AND WIRING SHALL BE IN ACCORDANCE WITH THE NEC. ANY DAMAGE TO THE EXISTING EQUIPMENT, DEVICES OR CABLING/CIRCUITING RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR OTHERWISE RESTORED TO ITS ORIGINAL WORKING CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
25. THE ELECTRICAL DRAWINGS ARE BASED ON PROPOSED EQUIPMENT. VERIFY ALL SYSTEM REQUIREMENTS (ELECTRICAL, MECHANICAL, FIRE ALARM, SPECIALTY SYSTEMS, ETC.) WITH THE SELECTED SYSTEM'S MANUFACTURER OR AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WITH ANY WORK. COORDINATE RATINGS OF OVERCURRENT PROTECTION DEVICES, DISCONNECT SWITCHES, CONDUIT & WIRING TO MATCH THE ACTUAL EQUIPMENT SUPPLIED FOR THE PROJECT. CORRECT ALL DISCREPANCIES SO AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. RECORD CHANGES ON THE AS-BUILT DRAWINGS.
26. ALL EQUIPMENT AND APPARATUS SHALL BE CAPABLE OF FITTING IN THE SPACES SHOWN WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS AND APPLICABLE CODE REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ARCHITECT OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
27. CONFIRM THE TYPE OF CEILING BEING INSTALLED PRIOR TO ORDERING LUMINAIRES AND TRIMS FOR PROPER COORDINATION. LUMINAIRES INDICATED MAY NOT EXPRESSLY CONFIRM TYPE OF CEILING OR OPENING PROVIDED BY OTHER TRADES.
28. CONCEAL ALL CONDUIT; EXPOSED CONDUITS ARE PERMITTED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. ALL EXPOSED CONDUITS IN FINISHED AREAS SHALL BE INSTALLED IN THE LEAST VISIBLE LOCATIONS. CARE SHALL BE TAKEN TO INSTALL CONDUIT IN THE MOST AESTHETICALLY PLEASING MANNER.
29. PROVIDE RACEWAY INFRASTRUCTURE FOR TELECOMMUNICATIONS SYSTEMS INCLUDING ALL BACKBOXES AND CONDUIT STUBS INTO CEILING SPACE OR BACK TO CABINET AS SHOWN ON THE DRAWINGS. THE TELECOMMUNICATIONS RACEWAY SYSTEM INSTALLATION SHALL COMPLY WITH TIA/EIA-569-A UNLESS OTHERWISE NOTED. TELECOMMUNICATIONS OUTLETS MAY BE COMBINED ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS. FLEXIBLE CONDUIT SHALL NOT BE UTILIZED FOR TELECOMMUNICATIONS RACEWAY SYSTEMS UNLESS SPECIFICALLY INDICATED. CONDUIT BODIES (e.g. LB, LR, etc.) SHALL NOT BE PERMITTED IN THE TELECOMMUNICATIONS RACEWAY SYSTEMS UNLESS SPECIFICALLY INDICATED TO BE UTILIZED AND LISTED FOR TELECOMMUNICATIONS SYSTEM USE. EACH CONDUIT RUN SHALL NOT HAVE MORE THAN 2-90 DEGREE BENDS. PROVIDE PULLBOXES SIZED IN ACCORDANCE WITH TIA/EIA 569-A WHERE MORE THAN 2-90 DEGREE BENDS ARE ANTICIPATED OR THE LENGTH OF THE CONDUIT RUN EXCEEDS 100 FEET (SEE SCHEDULE BELOW FOR A SAMPLING OF THE REQUIREMENTS). CONDUITS SHALL NOT BE INSTALLED AT RIGHT ANGLES AT THE PULLBOX TO ACCOMMODATE A CHANGE IN DIRECTION. ONLY STRAIGHT PULLS THROUGH THE BOX WILL BE ACCEPTABLE. PROVIDE NYLON PULLSTRING IN ALL RACEWAYS. PROVIDE INSULATED BUSHINGS AT ALL TELECOMMUNICATIONS CONDUIT TERMINATIONS AT ALL BOXES, BACKBOARDS, AND CONDUIT STUBS.
30. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS UNLESS OTHERWISE INDICATED.
31. WIRING DEVICES AND CONDUITS SHALL BE FLUSH MOUNTED, WHEREVER REASONABLY POSSIBLE.
32. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES FOR ALL PANELS, NEW OR MODIFIED, REFLECTING THE CIRCUIT ARRANGEMENTS AS THEY WERE ACTUALLY INSTALLED.
33. AN ADHESIVE VINYL NAMEPLATE SHALL BE PROVIDED FOR ALL SWITCHES, RECEPTACLES, [MODULAR FURNITURE POWER CONNECTIONS] [DISCONNECT SWITCHES] [MOTOR STARTERS] AND MISCELLANEOUS DEVICES REQUIRING POWER. THE NAMEPLATE SHALL INDICATE THE PANELBOARD SERVING THE DEVICE AND THE CORRESPONDING CIRCUIT ASSIGNMENT. LETTERING SHALL BE A MINIMUM OF 1/4" HIGH. UTILIZE BROTHER "P-TOUCH" LABEL MAKER OR APPROVED SUBSTITUTE.
34. A GREEN, EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC ARTICLE 250 SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS WHETER INDICATED ON CONTRACT DRAWINGS OR NOT. INSTALL THIS CONDUCTOR IN ALL RACEWAYS INCLUDING THOSE INSTALLED FOR SWITCH LEGS AND ATTACH TO THE DEVICES, LUMINAIRE, OR EQUIPMENT USING A SUITABLE GROUNDING LUG.
35. DO NOT USE A COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS INSTALLED IN A COMMON CONDUIT. PROVIDE A DEDICATED NEUTRAL FOR EACH INDIVIDUAL CIRCUIT. WHERE MULTIPLE DEDICATED NEUTRALS ARE INSTALLED IN A COMMON CONDUIT, PROVIDE COLOR CODING OF THE DIFFERENT NEUTRAL CONDUCTORS IN ACCORDANCE WITH NEC 2014 ARTICLE 200.6 (WHITE, GRAY, THREE CONTINUOUS WHITE OR GRAY STRIPES, ETC.).
36. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS UNLESS OTHERWISE INDICATED.
37. THE TELECOMMUNICATIONS RACEWAY SYSTEM INSTALLATION SHALL COMPLY WITH TIA/EIA-569-A UNLESS OTHERWISE NOTED.
38. CONDUIT BODIES (E.G. LB, LR, ETC.) SHALL NOT BE PERMITTED IN THE TELECOMMUNICATIONS RACEWAY SYSTEMS UNLESS SPECIFICALLY INDICATED TO BE UTILIZED AND LISTED FOR TELECOMMUNICATIONS SYSTEM USE.
39. PROVIDE INSULATED BUSHINGS AT ALL TELECOMMUNICATIONS CONDUIT TERMINATIONS AT ALL BOXES, BACKBOARDS, AND CONDUIT STUBS.
40. ALL SURFACE MOUNTED DEVICES SHALL BE INSTALLED UTILIZING FACTORY PAINTED SURFACE MOUNTING ACCESSORIES AND MATCHING DEVICE BOXES FOR THE MOST AESTHETICALLY PLEASING INSTALLATION.
41. PROVIDE KNOCK-OUT PLUGS FOR ALL UNUSED CONDUIT PENETRATIONS IN BOXES AND ENCLOSURES DUE TO CONDUIT REMOVAL.
42. PENETRATIONS THROUGH FIRE-RATED WALLS, CEILINGS AND FLOORS SHALL BE SEALED TO MAINTAIN FIRE RATINGS. UTILIZE 3M CP25, PUTTY 303 OR OTHER SUITABLE UL-LISTED SEALING SYSTEM.
43. PATCH, REFINISH, AND PAINT ALL PENETRATIONS THROUGH WALLS AND SLABS TO MATCH FINISH OF ADJACENT SURFACES.
44. RESTORE/REPAIR ANY DAMAGE TO EXISTING SURFACES RESULTING FROM THE INSTALLATION OF NEW ELECTRICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE, FINISH AND COLOR.
45. PAINTING OF ELECTRICAL EQUIPMENT: PRIME AND PAINT ALL EXPOSED CONDUITS, BOXES, FITTINGS, SUPPORT CHANNELS, MOUNTING HARDWARE AND ACCESSORIES WITH TWO FINISH COATS TO MATCH THE SURFACE ON WHICH THEY ARE MOUNTED OR TO MATCH THE FINISH OF THE ADJACENT SURFACES. EQUIPMENT SURFACES/COMPONENTS WITH A FACTORY-APPLIED PAINT FINISH NEED NOT BE PAINTED.
46. TEST ALL ELECTRICAL EQUIPMENT AND SYSTEMS TO DEMONSTRATE COMPLIANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. GUARANTEE ALL WORK FOR ONE YEAR AFTER FINAL ACCEPTANCE. CORRECT ALL DEFICIENCIES ARISING DURING THIS PERIOD TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

REVISIONS	
#	Date
	Description

SCHEMATIC DESIGN
12/14/2020

<p>This work was prepared by me or under my supervision and construction of this project will be under my observation</p> <p>Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.</p>	<p>_____</p> <p>License Expiration Date</p>
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PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

FILENAME:
C:\Users\keola\Documents\KVMH Covid Lab E18_kvilliams25L9J.rvt

DRAWING TITLE

**ELECTRICAL SPECIFICATIONS
AND GENERAL NOTES**

SCALE:	
DRAWN BY: JB	CHECKED BY: RT
PROJECT NO. 20162	DRAWING NO. E-001
SHEET ISSUE DATE: 12/14/2020	

FIRE ALARM GENERAL NOTES:

1. SEC 1.14 (NFPA 1 2012, AS AMENDED) PLAN REVIEW 1.14.4 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE.
2. AHJ APPROVAL:
 - A. 13.1.1 (NFPA 1 2012, AS AMENDED) THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR ALL FIRE PROTECTION SYSTEMS BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION.
 - B. FIRE ALARM SYSTEMS; FIRE HYDRANT SYSTEMS; FIRE-EXTINGUISHING SYSTEMS; STANDPIPES; AND OTHER FIRE-PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. A COPY OF A SYSTEM'S UNSATISFACTORY INSPECTION AND MAINTENANCE TEST REPORT SHALL BE SUBMITTED TO THE AHJ BY THE TESTING COMPANY WITHIN FIVE (5) WORKING DAYS AFTER THE COMPLETION OF THE TEST. NFPA 1 2012, CHAPTER 13, AS AMENDED.
3. SEC. 18-3.1 (C&C HONOLULU ROH CHAPTER 18) REQUIRED
 - A. NO PERSON SHALL PERFORM ANY OF THE FOLLOWING OR CAUSE ANY OF THE FOLLOWING TO BE PERFORMED WITHOUT FIRST OBTAINING A BUILDING PERMIT THEREFORE AS PRESCRIBED IN THIS SECTION:
 - i. ERECT, CONSTRUCT, ENLARGE, ALTER, REPAIR, MOVE, IMPROVE, REMOVE, CONVERT OR DEMOLISH ANY BUILDING OR STRUCTURE.
 - ii. ANY ELECTRICAL WORK
 - iii. INSTALL, REMOVE, ALTER, REPAIR OR REPLACE ANY PLUMBING, FIRE SPRINKLER, GAS OR DRAINAGE PIPING WORK OR ANY FIXTURE, GAS APPLIANCE, OR WATER HEATING OR TREATING EQUIPMENT; OR
 - iv. CONSTRUCT, RECONSTRUCT OR IMPROVE ANY SIDEWALK, CURB OR DRIVEWAY IN ANY PUBLIC STREET RIGHT-OF-WAY.
4. SEC. 18-5.2 (C&C HONOLULU ROH CHAPTER 18) RETENTION OF PLANS ONE SET OF APPROVED PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL BE RETAINED BY THE BUILDING OFFICIAL FOR A PERIOD OF NOT LESS THAN 90 DAYS FROM DATE OF COMPLETION OF THE WORK COVERED THEREIN, AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT, AND SAID SET SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES DURING WHICH THE WORK AUTHORIZED THEREBY IS IN PROGRESS. (SEC. 18-5.2 R.O. 1978 (1983 ED.); AM. ORD. 93-59).
5. SEC 13.7.3.2.1 (NFPA 1 2012, AS AMENDED) APPROVAL AND ACCEPTANCE
 - A. 13.7.3.2.1.1 THE AHJ SHALL BE NOTIFIED PRIOR TO INSTALLATION OR ALTERATION OF EQUIPMENT OR WIRING.
 - B. 13.7.3.2.1.2 AT THE AHJ'S REQUEST, COMPLETE INFORMATION REGARDING THE SYSTEM OR SYSTEM ALTERATIONS, INCLUDE SPECIFICATIONS, TYPE OF SYSTEM OR SERVICE, SHOP DRAWINGS, INPUT/OUTPUT MATRIX, BATTERY CALCULATIONS, AND NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS, SHALL BE SUBMITTED FOR APPROVAL.
 - C. 13.7.3.2.1.3 BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND APPROPRIATE NFPA REQUIREMENTS.
 - D. 13.7.3.2.1.4* THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.1.3. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY.
 - E. 13.7.3.2.1.5 THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 13.7.3.2.2.4.
6. SEC 13.7.1.1 (NFPA 1 2012, AS AMENDED) WHERE BUILDING FIRE ALARM SYSTEMS OR AUTOMATIC FIRE DETECTORS ARE REQUIRED BY OTHER SECTIONS OF THIS CODE, THEY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 70, NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, AND SECTION 13.7. NFPA 1 2012, AS AMENDED. FIRE ALARM SYSTEM INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 1, 2012, AS AMENDED.
7. SEC 10.15 (NFPA 72 2010) PROTECTION OF FIRE ALARM SYSTEM IN AREAS THAT ARE NOT CONTINUOUSLY OCCUPIED, AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FIRE ALARM CONTROL UNIT(S), NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDERS, AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION. EXCEPTION: WHERE AMBIENT CONDITIONS PROHIBIT INSTALLATION OF AUTOMATIC SMOKE DETECTION, AUTOMATIC HEAT DETECTION SHALL BE PERMITTED.
8. NOTIFICATION SIGNALS
 - A. 13.7.1.4.10.5 (NFPA 1 2012, AS AMENDED) UNLESS OTHERWISE PROVIDED IN 13.7.1.10.9.5.1 THROUGH 13.7.1.4.10.5.8, NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72 AND ICC/ANSI A1177.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, OR OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AHJ SHALL BE PROVIDED.
 - B. 13.7.1.4.9.5.1 (NFPA 1 2012, AS AMENDED) AREAS NOT SUBJECT TO OCCUPANCY BY PERSONS WHO ARE HEARING IMPAIRED SHALL NOT BE REQUIRED TO COMPLY WITH THE PROVISIONS FOR VISIBLE SIGNALS.
9. VISIBILITY
 - A. SEC 18.5.1* (NFPA 72 2010) VISIBLE SIGNALING. PUBLIC MODE VISIBLE SIGNALING SHALL MEET THE REQUIREMENTS OF SECTION 18.5 USING VISIBLE NOTIFICATION APPLIANCES.
 - B. SEC A.18.5.1 (NFPA 72 2010) THERE ARE TWO METHODS OF VISIBLE SIGNALING. THESE ARE METHODS IN WHICH NOTIFICATION OF AN EMERGENCY CONDITION IS CONVEYED BY DIRECT VIEWING OF THE ILLUMINATING APPLIANCE OR BY MEANS OF ILLUMINATION OF THE SURROUNDING AREA. VISIBLE NOTIFICATION APPLIANCES USED IN THE PUBLIC MODE MUST BE OF A TYPE, SIZE, INTENSITY, AND NUMBER SO THAT THE OPERATING EFFECT OF THE APPLIANCE IS SEEN BY THE INTENDED VIEWERS REGARDLESS OF THE VIEWERS ORIENTATION.
 - C. SEC 18.5.4.1* (NFPA 72 2010) WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE-BASED ALTERNATIVE OF 18.5.4.5.
 - D. SEC 18.5.4.3.2 (NFPA 72 2010) VISIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 18.5.4.3.1(A), USING ONE OF THE FOLLOWING:
 - i. A SINGLE VISIBLE NOTIFICATION APPLIANCE
 - ii. TWO VISIBLE NOTIFICATION APPLIANCES LOCATED ON OPPOSITE WALLS
 - iii. *TWO GROUPS OF VISIBLE NOTIFICATION APPLIANCES, WHERE VISUAL APPLIANCES OF EACH GROUP ARE SYNCHRONIZED, IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW. THIS SHALL INCLUDE:
 - 1) *MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW THAT FLASH IN SYNCHRONIZATION
13. AUDIBILITY
 - A. SEC 13.7.1.4.10.8 (NFPA 1 2012, AS AMENDED) AUDIBILITY. AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. [101-9.6.3.8]
 - B. SEC 18.4.3.1* (NFPA 72 2010) TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FEET ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE.
 - C. SOUND LEVELS FOR ALARM SIGNALS SHALL BE 110 DECIBELS MAXIMUM.
 - D. THE CONTRACTOR AND FIRE ALARM VENDOR SHALL ENSURE AUDIBILITY IS MET THROUGH ALL OCCUPIABLE AREAS AND SPACES. AUDIBILITY WILL BE THOROUGHLY CHECKED AT THE TIME OF ALARM ACCEPTANCE TESTING.
 - E. THE STANDARD EVACUATION SIGNAL SHALL BE SYNCHRONIZED WITHIN A NOTIFICATION ZONE.
 - F. SEC 18.4.8.1 (NFPA 72 2010) IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.8.2 THROUGH 18.4.8.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 INCHES AND BELOW THE FINISHED CEILING.
14. TAG

SEC 13.7.3.2.5 (NFPA 1 2012, AS AMENDED) A TAG SHALL BE PLACED ON THE FIRE ALARM PANEL WHEN TESTED IN ACCORDANCE WITH SECTION 13.7.3.2. INFORMATION ON THE TAG SHALL INCLUDE THE DATE OF TESTING, TESTING COMPANY, AND CONTACT INFORMATION. TECHNICIAN PERFORMING THE TEST, AND THAT THE TEST WAS SATISFACTORY.

15. PRIOR TO COMMENCING ANY WORK ON THE EXISTING FIRE ALARM SYSTEM, CONFIRM THAT THE SYSTEM IS OPERATING PROPERLY BY TESTING THE SYSTEM IN THE PRESENCE OF THE OWNER'S DESIGNATED REPRESENTATIVE OR OBTAINING A CLEARANCE FROM THE ARCHITECT. ANY PRE-EXISTING DEFICIENCIES SHOULD BE NOTED AT THIS TIME AND PRESENTED TO THE ARCHITECT FOR THEIR ACTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY ENSUING SYSTEM DEFICIENCIES NOT DOCUMENTED DURING THIS PRELIMINARY TESTING/CONFIRMATION PERIOD AT NO ADDITIONAL COST TO THE PROJECT.
16. COORDINATE ALL FIRE ALARM SYSTEM WORK WITH XXXXXXXXXXXX. PAY FOR ALL CHARGES LEVIED BY XXXXXXXXXXXX FOR SERVICES RENDERED.
17. XXXXXXXXXXXX SHALL BE PRESENT FOR THE PRELIMINARY AND FORMAL ACCEPTANCE TESTING OF THE FIRE ALARM SYSTEM. OBTAIN CERTIFICATE OF APPROVAL FROM THE FIRE DEPARTMENT (AHJ) AND DELIVER TO THE ARCHITECT.

COUNTY OF KAUAI
CHAPTER 12, KAUAI COUNTY BUILDING CODE
KAUAI COUNTY CODE 1987, AS AMENDED
ARTICLE 6 – ENERGY CONSERVATION CODE

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO:
SECTION 12-6.3 ADOPTION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
SECTION 12-6.4 LOCAL AMENDMENTS TO THE IECC
FOR ELECTRICAL AND LIGHTING SYSTEMS (SECTION C405 AND C408).

COMPLIANCE METHOD

2015 IECC AS AMENDED. MANDATORY & PRESCRIPTIVE
 2015 IECC AS AMENDED. MANDATORY & TOTAL BUILDING PERFORMANCE
 ASHRAE STANDARD 90.1-2013. MANDATORY & PRESCRIPTIVE
 ASHRAE STANDARD 90.1-2013. MANDATORY & ENERGY COST BUDGET

INFORMATION IN CONSTRUCTION DOCUMENTS	YES	N/A
INTERIOR LIGHTING		
OCCUPANT SENSOR CONTROLS. C405.2.1	<input type="checkbox"/>	<input type="checkbox"/>
TIME SWITCH CONTROLS. C405.2.2	<input type="checkbox"/>	<input type="checkbox"/>
DAYLIGHT RESPONSIVE CONTROLS. C405.2.3	<input type="checkbox"/>	<input type="checkbox"/>
DAYLIGHT ZONES ON PLANS. C405.2.3.2 & C405.2.3.3	<input type="checkbox"/>	<input type="checkbox"/>
GUEST ROOM CONTROLS. C405.2.4	<input type="checkbox"/>	<input type="checkbox"/>
INTERIOR LIGHTING FIXTURE SCHEDULE	<input type="checkbox"/>	<input type="checkbox"/>
INPUT POWER FOR INTERIOR LIGHTING FIXTURES. C405.4.1	<input type="checkbox"/>	<input type="checkbox"/>
INTERIOR LIGHTING FIXTURE LOCATIONS	<input type="checkbox"/>	<input type="checkbox"/>
LIGHTING CONTROL FUNCTIONAL PERFORMANCE	<input type="checkbox"/>	<input type="checkbox"/>
TESTING REQUIREMENT. C408.3		
EXTERIOR LIGHTING		
EXTERIOR LIGHTING CONTROLS. C405.2.5	<input type="checkbox"/>	<input type="checkbox"/>
EXTERIOR LIGHTING FIXTURE SCHEDULE	<input type="checkbox"/>	<input type="checkbox"/>
INPUT POWER FOR EXTERIOR LIGHTING FIXTURES	<input type="checkbox"/>	<input type="checkbox"/>
EXTERIOR LIGHTING FIXTURE LOCATIONS	<input type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL		
ELECTRICAL TRANSFORMER EFFICIENCY. C405.7	<input type="checkbox"/>	<input type="checkbox"/>
TENANT SUBMETERING. C405.10	<input type="checkbox"/>	<input type="checkbox"/>

SIGNATURE: _____

DATE: _____

NAME: _____

TITLE: ELECTRICAL ENGINEER

LICENSE No.: _____

ENGINEER
STAMP
HERE

#	Date	Description

SCHEMATIC DESIGN
12/14/2020

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

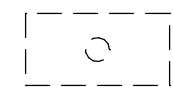
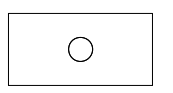
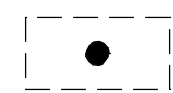
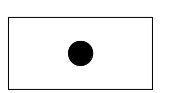
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C:\Users\keola\Documents\KVMH Covid Lab E18_kvlliams25L9J.rvt

DRAWING TITLE

FIRE ALARM GENERAL NOTES

SCALE:	
DRAWN BY: JB	CHECKED BY: RT
PROJECT NO. 20162	DRAWING NO. E-002
SHEET ISSUE DATE: 12/14/2020	

ELECTRICAL SYMBOL LIST / MOUNTING HEIGHT SCHEDULE

MOUNTING HEIGHT FROM FLOOR TO		(SPECIAL MOUNTING HEIGHTS INDICATED ON PLAN)		
		SYMBOL		DESCRIPTION
TOP	℄	EXISTING	NEW	
				LED FIXTURE, 2X4 CEILING GRID MOUNTED
				LED FIXTURE, 2X4 CEILING GRID MOUNTED WITH EMERGENCY BATTERY UNIT
	46"	Ⓐ ^a	Ⓐ ^a	LIGHT SWITCH, FLUSH WALL MOUNTED, 1P20A, 120/277V, 1HP MAX. (LETTER INDICATES LUMINAIRES CONTROLLED)
	18"	Ⓔ	Ⓔ	RECEPTACLE, DUPLEX, GROUNDING TYPE, 125V, NEMA TYPE 5-15R
	18"		Ⓔ	RECEPTACLE, DUPLEX, GFCI TYPE, 125V, NEMA TYPE 5-20R
		Ⓔ	Ⓔ	RECEPTACLE, DUPLEX, 6" ABOVE COUNTER TOP
			Ⓔ	RECEPTACLE, DUPLEX, GFCI, 6" ABOVE COUNTER TOP
	7'-6"	Ⓕ		CLOCK OUTLET, 2P15A, 125V
		Ⓖ		JUNCTION BOX, WALL MOUNTED
			Ⓜ	MOTOR CONNECTION
			Ⓛ	NON-FUSED DISCONNECT SWITCH, 3P30A UNLESS OTHERWISE NOTED, VOLTAGE TO MATCH CIRCUITING
		Ⓟ		PANELBOARD
		Ⓣ	Ⓣ	TELEPHONE OUTLET BOX, WALL MOUNTED WITH BLANK DEVICE PLATE
			Ⓛ	DATA OUTLET, WALL MOUNTED, WITH BLANK DEVICE PLATE
	6'-10"	Ⓛ	Ⓛ	FIRE ALARM HORN/VISUAL (15 CANDELA UNLESS OTHERWISE NOTED) SIGNALLING DEVICE, SEMI - FLUSH WALL MOUNTED

REVISIONS

#	Date	Description

SCHEMATIC DESIGN

12/14/2020

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License Expiration Date

PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

FILENAME:
C:\Users\keola\Documents\KVMH Covid Lab
E18_kwilliams25L9J.rvt

DRAWING TITLE

ELECTRICAL SYMBOL LIST

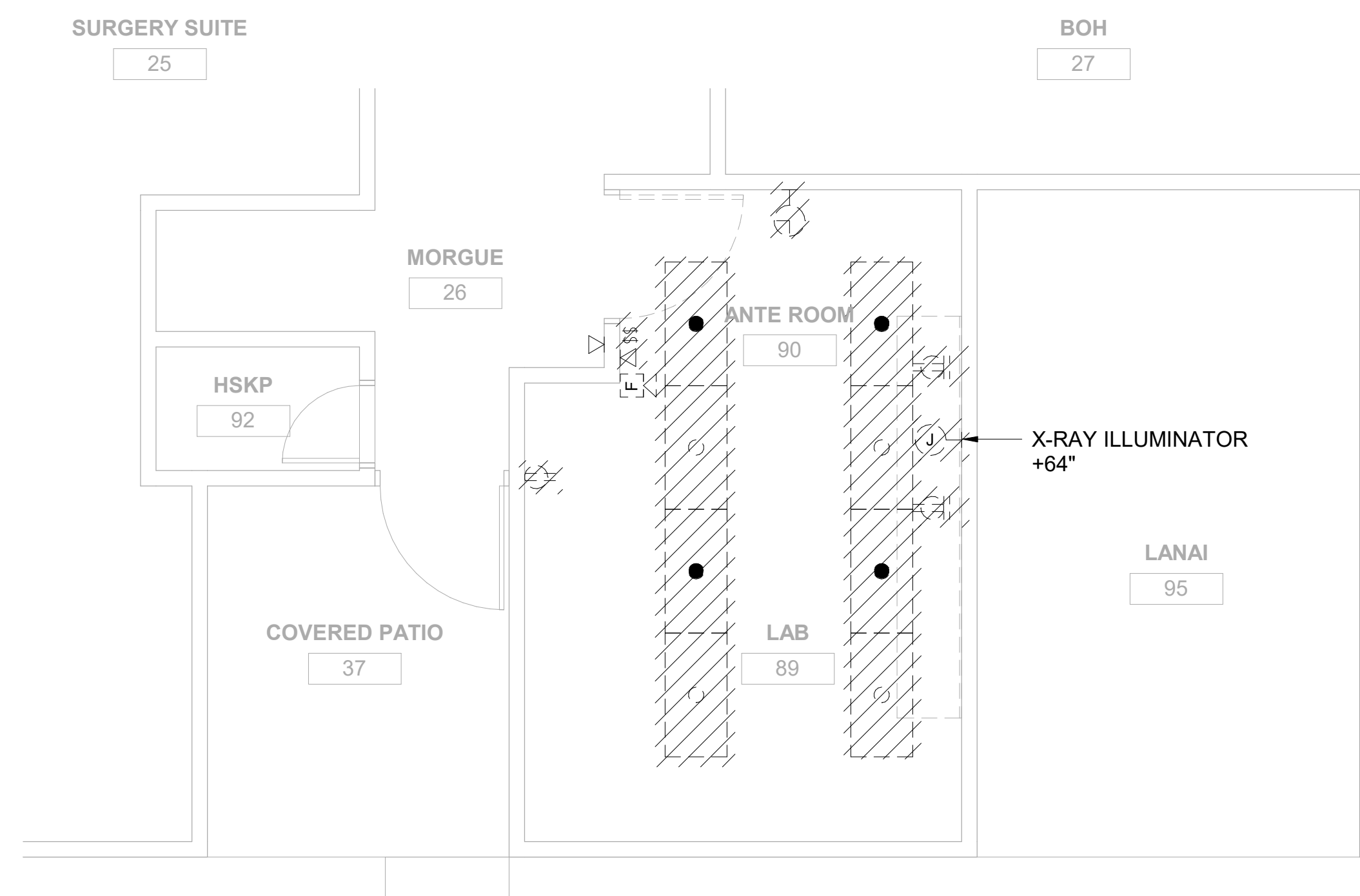
SCALE:

DRAWN BY: JB	CHECKED BY: RT
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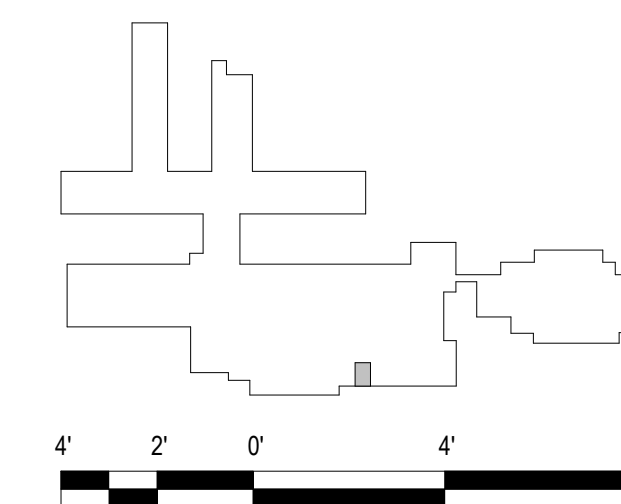
PROJECT NO. 20162	DRAWING NO.
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SHEET ISSUE DATE:
12/14/2020

E-003



1 COVID LAB ELECTRICAL DEMO PLAN
SCALE: 1/4" = 1'-0"



REVISIONS		
#	Date	Description
SCHEMATIC DESIGN		
12/14/2020		

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License Expiration Date

PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

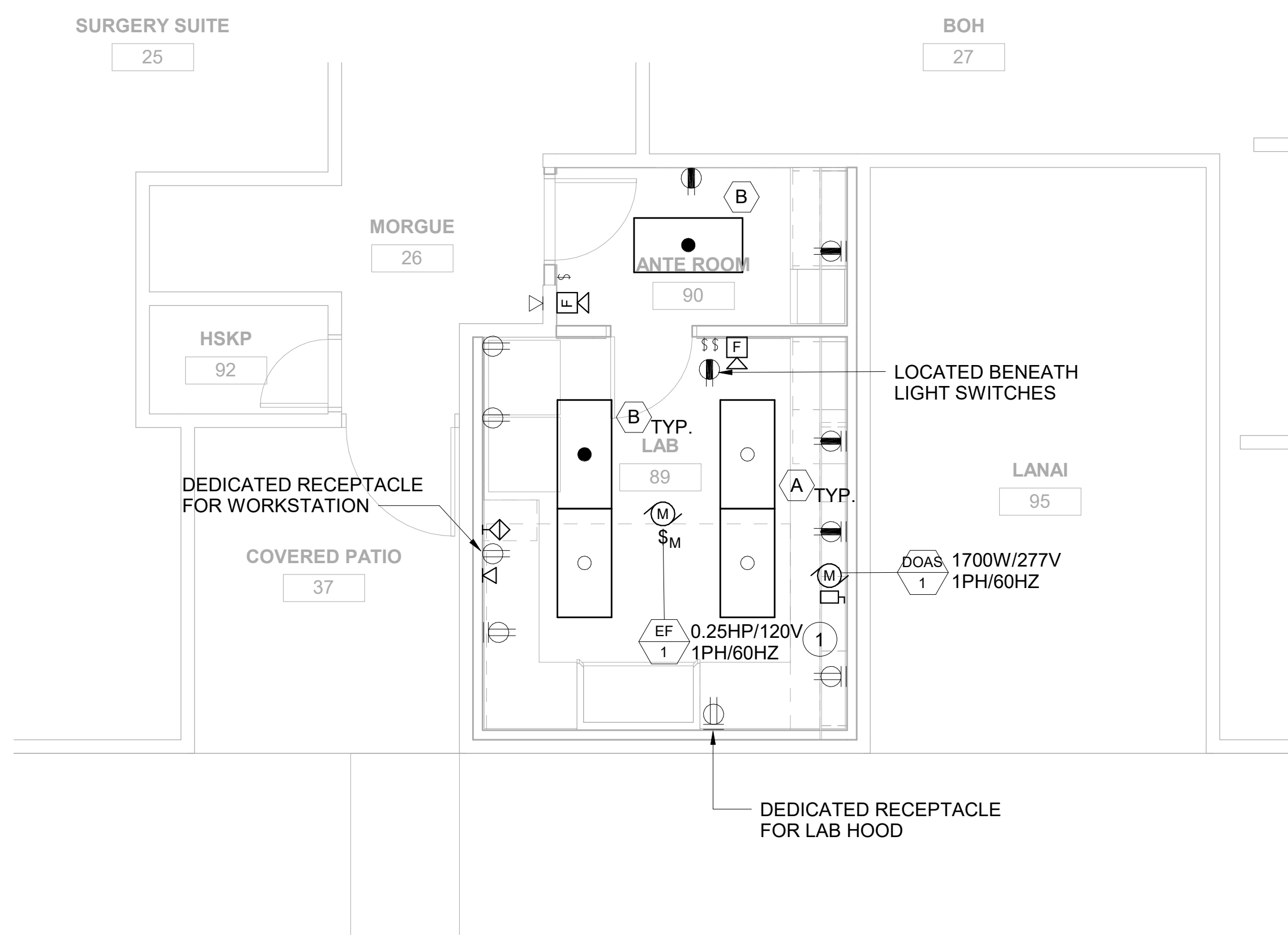
FILENAME:
C:\Users\keola\Documents\KVMH Covid Lab
E18_kvilliams25L9J.rvt

DRAWING TITLE

**COVID LAB ELECTRICAL DEMO
PLAN**

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

DRAWN BY: JB	CHECKED BY: RT
PROJECT NO. 20162	DRAWING NO. E-101
SHEET ISSUE DATE: 12/14/2020	



SHEET NOTES:

- 1 (N) EXHAUST FAN EQUIPMENT CONNECTION LOCATED ON ROOF.

1 COVID LAB ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



REVISIONS

#	Date	Description

SCHEMATIC DESIGN
12/14/2020

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

KAUAI HHSC CT SCANNER RENOVATIONS

KVMH - COVID LAB

FILENAME:
C:\Users\keola\Documents\KVMH Covid Lab
E18_kvilliams25L9J.rvt

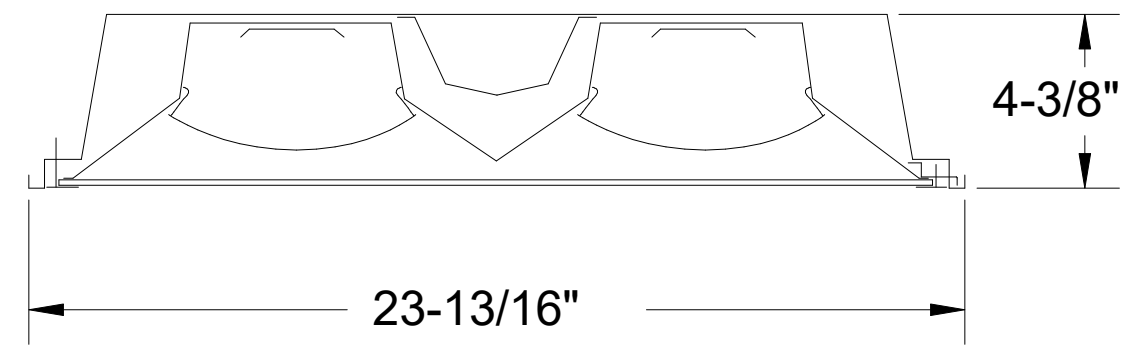
DRAWING TITLE
COVID LAB ELECTRICAL PLAN

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

DRAWN BY: **JB** CHECKED BY: **RT**

PROJECT NO. **20162** DRAWING NO. **E-102**

SHEET ISSUE DATE:
12/14/2020



B	277	4000K, 80 CRI 48W LED, 5900 LUMENS	2'x4' CEILING GRID RECESSED MOUNT 0-10V DIMMING CAPABILITIES 10W INTEGRATED EMERGENCY BATTERY HEW 50G-S24-L59/840-SAF12125-EM/10W-DIM-UNV (OR APPROVED EQUAL)
A	277	4000K, 80 CRI 48W LED, 5900 LUMENS	2'x4' CEILING GRID RECESSED MOUNT 0-10V DIMMING CAPABILITIES HEW 50G-S24-L59/840-SAF12125-DIM-UNV (OR APPROVED EQUAL)
TYPE	VOLTS	LAMPS	MOUNTING AND OPTIONS

REVISIONS

#	Date	Description

SCHEMATIC DESIGN
12/14/2020

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License Expiration Date

PROJECT TITLE

**KAUAI HHSC CT
SCANNER RENOVATIONS**

KVMH - COVID LAB

FILENAME:
C:\Users\keola\Documents\KVMH Covid Lab
E18_kvilliams25L9J.rvt

DRAWING TITLE

LUMINAIRE SCHEDULE

SCALE:

DRAWN BY: JB	CHECKED BY: RT
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PROJECT NO. 20162	DRAWING NO. E-501
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SHEET ISSUE DATE: 12/14/2020	
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