

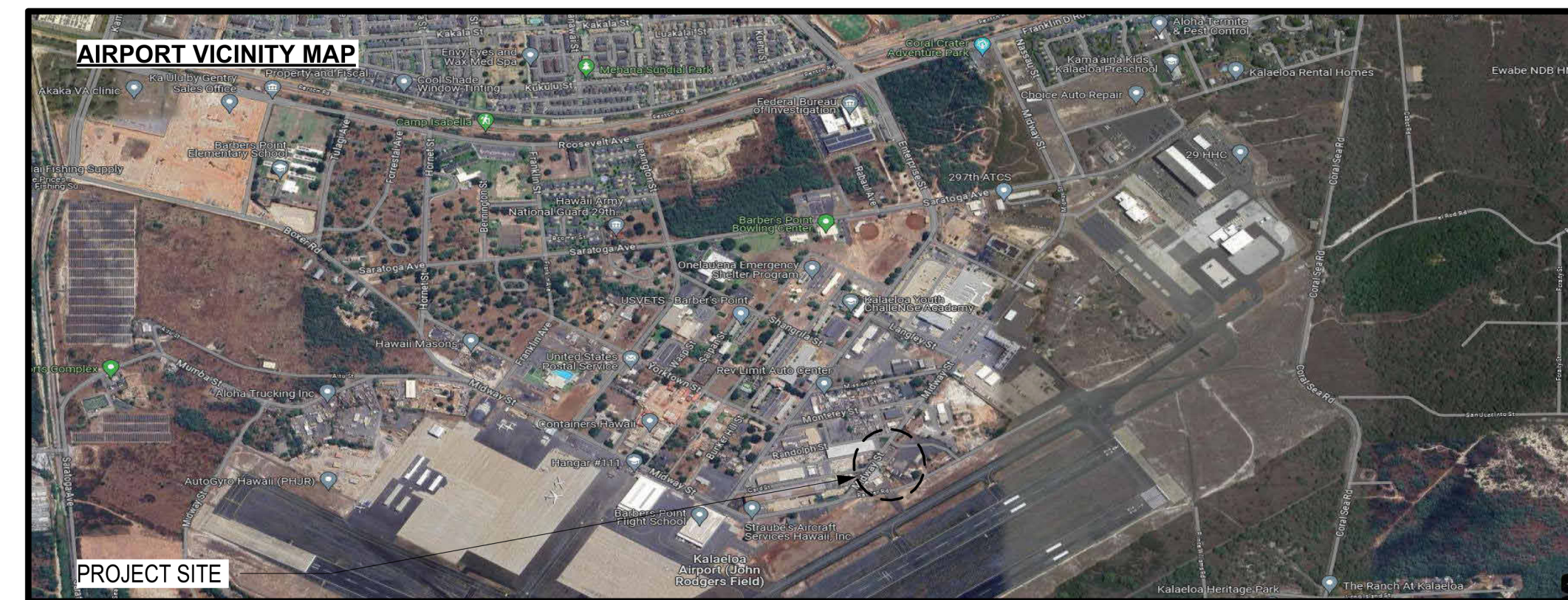
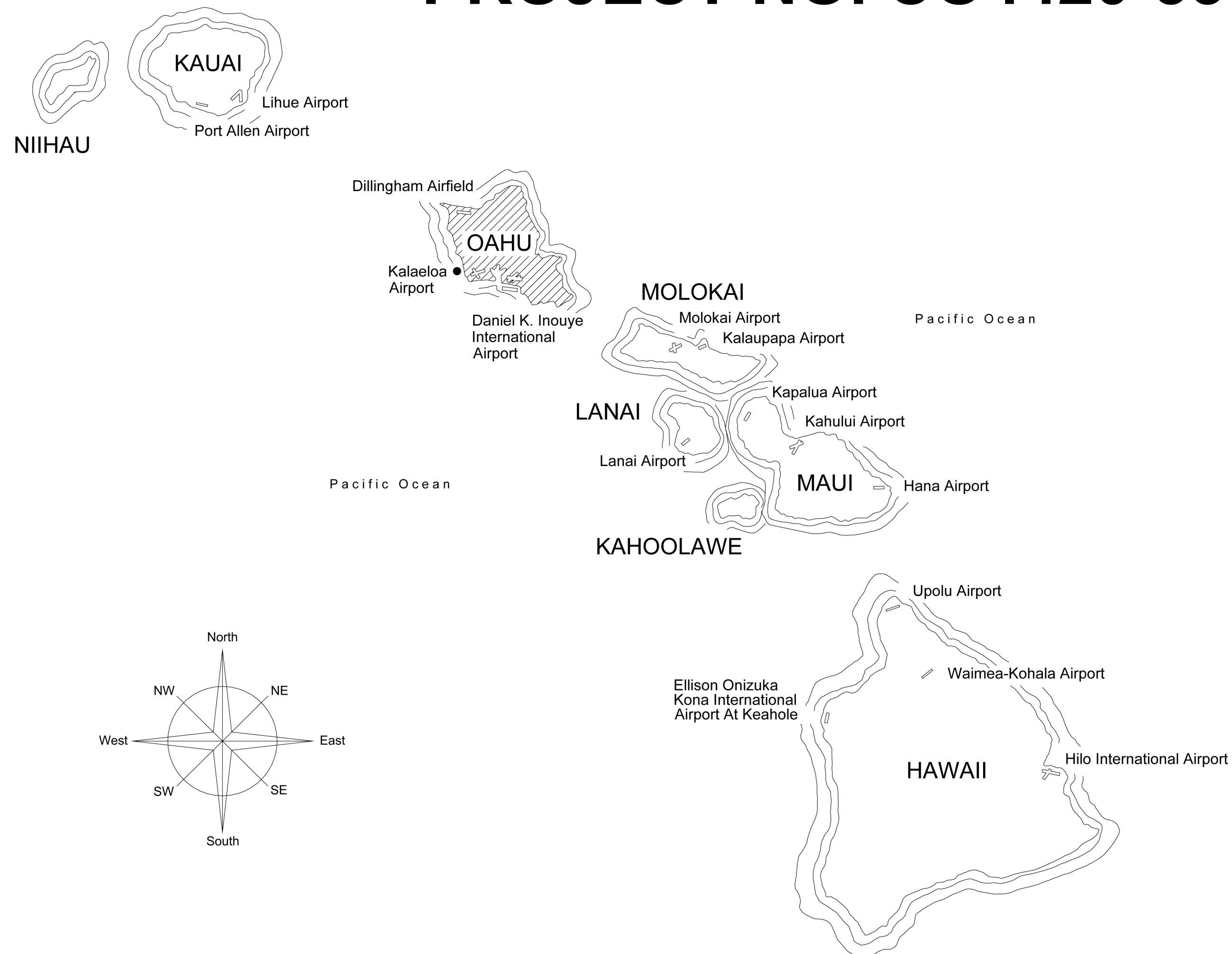
# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION AIRPORTS

PLANS FOR

## JRF ARFF STATION RENOVATIONS

AT

# KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII PROJECT NO. CO4420-33



**PROJECT TEAM**

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DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
**KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII**

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**TITLE SHEET**

DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

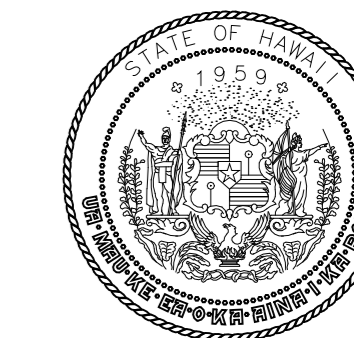
APPROVED:  
*Nathan Kaneshige for*  
for DIRECTOR OF TRANSPORTATION

05/08/2024  
DATE

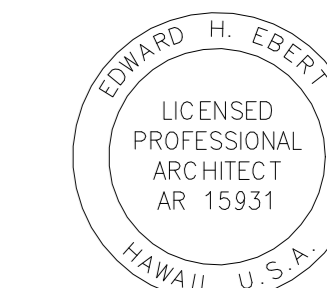
DATE :	DWG. NO.
01 MAY 2024	<b>G-001</b>
SHEET :	
1 OF 57 SHEETS	



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M-601	MECHANICAL EQUIPMENT SCHEDULES
M-501	MECHANICAL DETAILS
P-001	PLUMBING LEGEND, ABBREVIATIONS, AND NOTES
PD 101	ENLARGED PLUMBING DEMO PLAN
P-101	ENLARGED PLUMBING PLAN
P-601	PLUMBING FIXTURE AND EQUIPEMENT SCHEDULES
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E-001	ABBREVIATIONS, AND SYMBOLS LEGEND
E-010	ELECTRICAL NOTES
E-012	LUMINAIRE AND MECHANICAL SCHEDULE
ED-111	FIRST FLOOR PLAN POWER PLAN - DEMOLITION
ED-121	FIRST FLOOR RCP PLAN - DEMOLITION
ED-411	ENLARGED FIRST FLOOR POWER - DEMOLITION
ED-421	ENLARGED FIRST FLOOR RCP - DEMOLITION
E-111	FIRST FLOOR POWER PLAN
E-121	FIRST FLOOR REFLECTED CEILING PLAN
E-411	ENLARGED KITCHEN AND RESTROOM POWER PLAN
E-412	ENLARGED APPARATUS BAY POWER PLAN
E-421	ENLARGED KITCHEN AND RESTROOM RCP PLAN
E-422	ENLARGED APPARATUS BAY RCP PLAN
E-601	ONE LINE DIAGRAM
E-602	PANEL SCHEDULE



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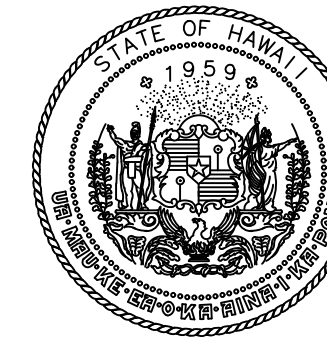
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JV/MM	MM	JV	EE

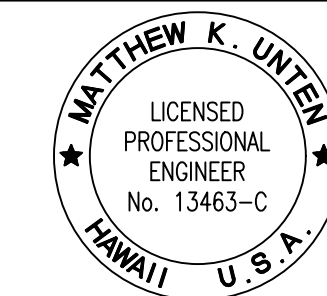
**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
<b>CONSTRUCTION DOCUMENTS</b>		
MAY 2024 DATE		
<b>PROJECT TITLE :</b>		
<b>JRF ARFF STATION RENOVATIONS</b>		
AT KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII		
<b>PROJECT NO.:</b>		
<b>CO4420-33</b>		
<b>SHEET TITLE:</b>		
<b>DRAWING INDEX</b>		

DATE :	DWG. NO.
01 MAY 2024	<b>G-002</b>
SHEET :	
2 OF 57 SHEETS	



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*Matthew K. Unteh*  
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KMU	TU	JS	KMU

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
MAY 2024  
DATE

**PROJECT TITLE :**

JRF ARFF STATION  
RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

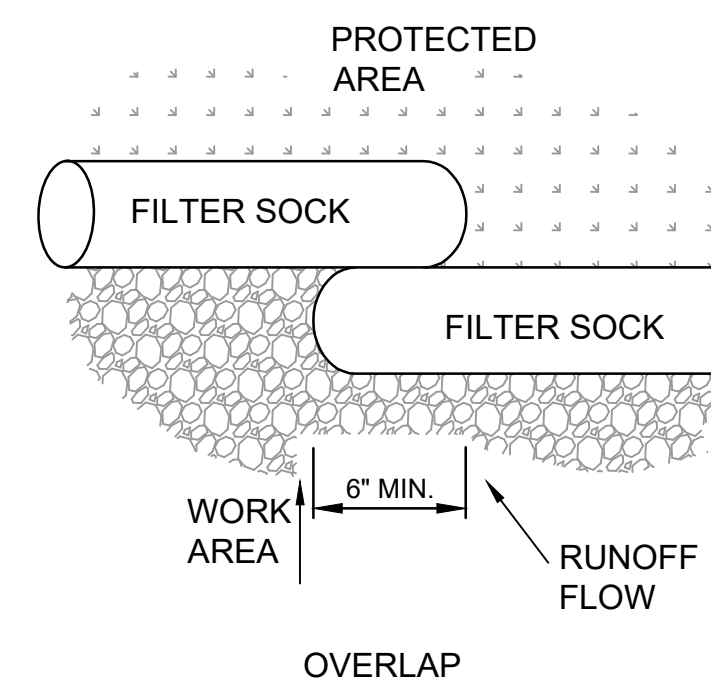
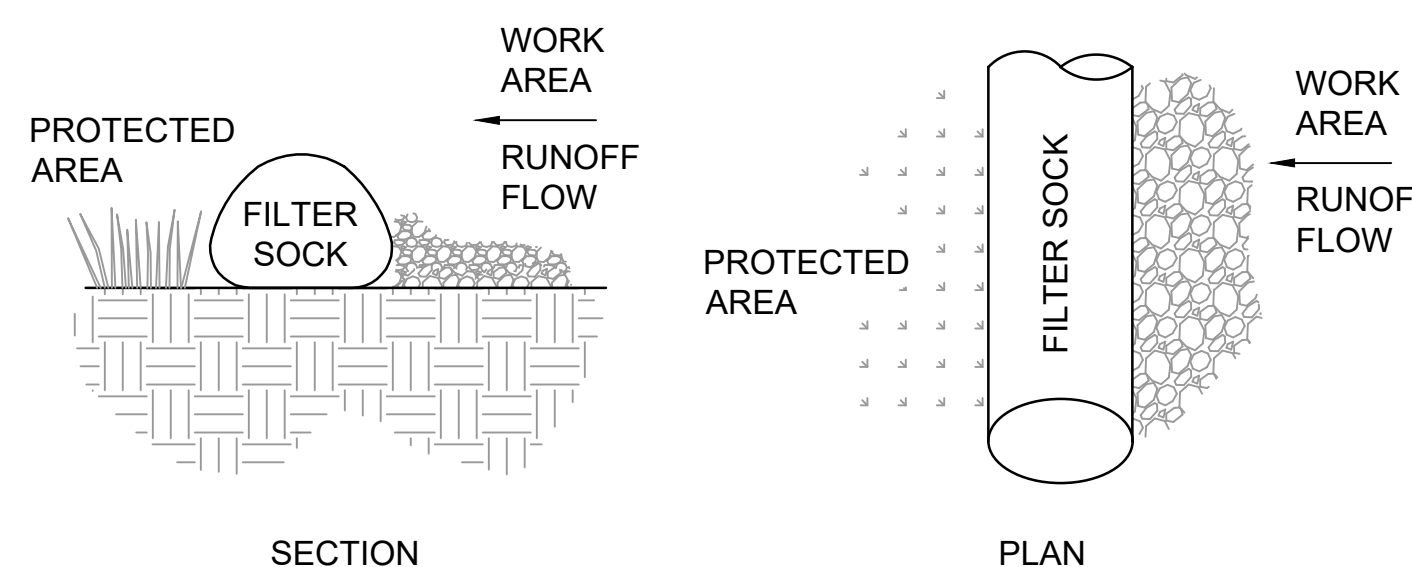
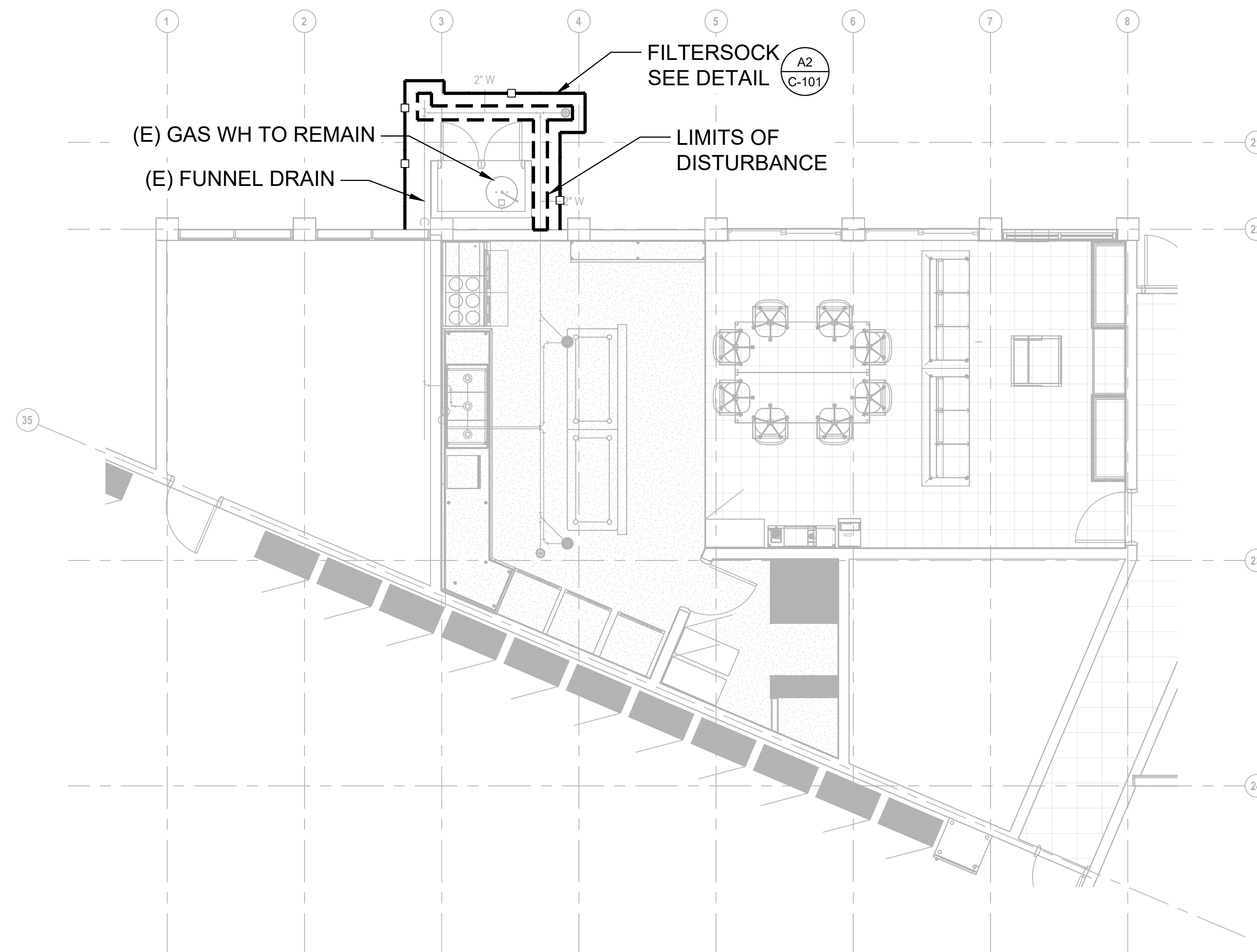
**PROJECT NO.:**

CO4420-33

**SHEET TITLE:**

EROSION AND SEDIMENT  
CONTROL PLAN

DATE :	DWG. NO.
01 MAY 2024	<b>C-101</b>
SHEET :	
SHEET 3 OF 57	



**WOODEN STAKE OR SANDBAG ANCHOR SPACING**

SLOPE GRADIENT	ANCHOR SPACING
<4:1	NOT REQUIRED
4:1 to 3:1	10' ON CENTER
>3:1 to 2:1	5' TO 10' ON CENTER
>2:1	5' ON CENTER

WOOD ANCHOR STAKES SHALL HAVE A NOMINAL CLASSIFICATION OF 3/4 BY 3/4 INCH AND MINIMUM LENGTH OF 16 INCHES. DO NOT USE REBAR OR OTHER METAL RODS. SANDBAG SHALL BE MINIMUM 18" x 12" x 3"

**NOTES:**

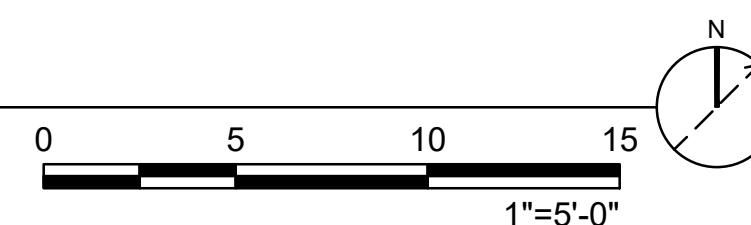
1. FILTER SOCKS SHALL BE FILLED WITH MULCH. COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.
2. REMOVE AND DISPOSE SEDIMENT WHEN DEPTH REACHES 1/3 THE HEIGHT OF THE FILTER SOCK.
3. REMOVE AND DISPOSE FILTER SOCKS AFTER PERMANENT STABILIZATION OF WORK AREA.

**A2 EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: N.T.S.

**SHEET NOTES:**

1. INSTALL DRAIN INLET PROTECTION FOR ALL DRAIN INLETS WITH THE POTENTIAL TO RECEIVE STORMWATER RUNOFF FROM DISTURBED PROJECT AREAS.
2. CONTRACTOR MUST TAKE THE ANNUAL CONSTRUCTION BMP TRAINING BEFORE CONDUCTING LAND-DISTURBING ACTIVITIES AND REPORT ALL SPILLS AND RELEASES USING THE DOTA SPILL REPORTING FORM.

**A1 EROSION AND SEDIMENT CONTROL PLAN**  
1" = 5'-0"





# ABBREVIATIONS LEGEND

## A

AB	ANCHOR BOLT
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AFC	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACP	ACOUSTICAL CEILING PANEL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADF	ACCESSIBLE DRINKING FOUNTAIN
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFS	ABOVE FINISH SLAB
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL

## B

BBQ	BARBEQUE
BD	BOARD
BFF	BELOW FINISH FLOOR
BKBD	BACK BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOD	BOTTOM OF DECK
BOT F	BOTTOM FACE
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING

## C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
CG	CORNER GUARD
CMPST	COMPOSITE
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE/CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COPPER
CORR	CORRIDOR
CPT	CARPET
CSK	COUNTERSINK
CT	CERAMIC TILE
CTR	CENTER
CUH	CABINET UNIT HEATER
CULT	CULTURED
CW	COLD WATER PIPING

## D

D	DEEP/DEPTH
DBL	DOUBLE
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

## E

E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EPB	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
ES	EACH SIDE
EQ	EQUAL
EQUIP	EQUIPMENT
EOS	EDGE OF SLAB
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXPOSED	EXPOSED
EXPAN	EXPANSION
EXT	EXTERIOR
(E)	EXISTING

## F

F	FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATE
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF & E	FURNITURE, FIXTURES AND EQUIPMENT
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN GR	FINISH GRADE
FIXT	FIXTURE
FLDG	FOLDING
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FLR SK	FLOOR SINK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIRE PROOF
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT
FRZ	FREEZER
FT	FEET
FTD	FACIAL TISSUE DISPENSER
FTG	FOOTING
FURG	FURRING
FUT	FUTURE

## G

G	NATURAL GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GFGI	GOVERNMENT FURNISHED / GOVERNMENT INSTALLED
GFRG	GLASSFIBER REINFORCED GYPSUM
GFRC	GLASSFIBER REINFORCED CONCRETE
GL	GLASS/GLAZING
GLU LAM	GLUE LAMINATED WOOD
GPM	GALLONS PER MINUTE
GRAN	GRANITE
GSB	GYPSUM SHEATHING BOARD
GTV	GATE VALVE
GWT	GLAZED WALL TILE
GYP	GYPSUM
GWB	GYPSUM WALL BOARD

## H

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAD
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HS	HAND SINK
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY

## I

ID	INSIDE DIAMETER
INCL	INCLUDED
IMP	INSULATED METAL PANEL
INCH	INCH
INFO	INFORMATION
INSUL	INSULATION/INSULATED
INT	INTERIOR
INV	INVERT

## J

J-BOX	JUNCTION BOX
JAN	JANITOR
JST	JOIST
JT	JOINT

## K

KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK-OUT
KW	KILOWATT
KWH	KILOWATT HOUR

## L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LBF/SF	POUNDS PER SQUARE FOOT
LDG	LANDING
LF	LINEAR FOOT
LH	LEFT HAND
LKR	LOCKER
LLV	LONG LEG VERTICAL
LOC	LOCATION
LT	LIGHT
LR	LIVING ROOM
LVR	LOUVER

## M

M	METER
M2	SQUARE METER
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MASTER BEDROOM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MI	MIRROR
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOULDING
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODULE
MP	METAL PANEL
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MTG	MOUNTING
MULL	MULLION
MUN	MUNTIN
MW	MICROWAVE

## N

N	NORTH
NFS	NON-FROST SUSCEPTIBLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

## O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
OFD	OVERFLOW DRAIN
OH	OVER HANG
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OVHD	OVER HEAD

## P

PA	PUBLIC ACCESS
PC	PIECE
PCC	PRECAST CONCRETE
PEND	PENDANT
PERIM	PERIMETER
PH	PENTHOUSE
PLAS	PLASTER
PLBG	PLUMBING
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PROP	PROPERTY
PREFAB	PREFABRICATE
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER AND RECEPTACLE
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT

## Q

QT	QUARRY TILE
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## R

R	RISER
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RB HK	ROBE HOOK
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFRIGERATOR
REFL	REFLECTED
REG	REGISTER
REINF	REINFORCE
RECS	RECOMMENDATIONS
REQD	REQUIRED
RESIL	RESILIENT
REST	REST ROOM
REV	REVISION
RTF	RUBBER TILE FLOOR
RFG	ROOFING
RLG	RAILING
RH	RIGHT HAND
RND	ROUND
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER

## S

S	SOUTH
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BLANKET
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCD	SEAT COVER DISPENSER
SCP	SCUPPER
SCR	SHOWER CURTAIN ROD
SCRN	SCREEN
SD	SMOKE DETECTOR
SECT	SECTION
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FEET
SHT	SHEET
SHR	SHOWER
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SL	SLOPE
SLDG	SLIDING
SLNT	SLANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPC	SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SST	STAINLESS STEEL
SMD	SEE MECHANICAL DRAWINGS
SMLS	SEAMLESS
SS	SOLID SURFACE
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRINGERS
STRUCT	STRUCTURAL
SURR	SURROUND
SUSP	SUSPENDED
SVCE	SERVICE
SW	SWITCH
SYMM	SYMMETRICAL
SYS	SYSTEM

## T

T	TREAD
TB	TOWEL BAR / TILE BASE
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
T&G	TONGUE AND GROOVE
THRES	THRESHOLD
THRU	THROUGH
THK	THICKNESS
TK BD	TACK BOARD
TMPD	TEMPERED
TOC	TOP OF CURB
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TS	TUBE STEEL
TSH	TOWEL SHELF
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
TLT	TOILET

## U

UBC	UNIFORM BUILDING CODE
UC	UNDERCUT
UNGD	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS OTHERWISE NOTED
UR	URNAL

## V

VAR	VARIES
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VP	VENEER PLASTER
VTR	VENT THROUGH ROOF
WVC	VINYL WALL COVERING

## W

W	WIDE
WI	WITH
WC	WALL COVERING
WCLR	WATER COOLER
WD	WOOD
WDSP	WASTE DISPOSER
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WATER HEATER
W/O	WITHOUT
WP	WATERPROOF / WATERPROOFING
WR	WATER REPELLENT
WSCOT	WAINSCOT
WSP	WET STAND PIPE
WT	WEIGHT
WWF	WELDED WIRE FABRIC

# MATERIALS LEGEND

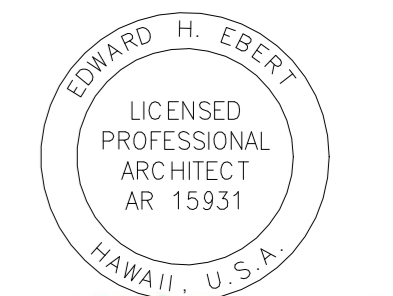
	SAND, MORTAR, PLASTER, TILE, BACKER BOARD		CONCRETE		GYPSUM BOARD
	EARTH (UNCLASSIFIED FILL)		CMU		STEEL
	CLASSIFIED COMPACTED FILL		INSULATION - RIGID BOARD		INSULATION - BATT
	EARTH (UNDISTURBED)		WOOD - FINISHED, TRIM		ACOUSTIC CEILING PANEL
			FLOORING - CERAMIC TILE OR RESILIENT		GLAZING, GLASS
			CARPET		CARPET

# SYMBOLS LEGEND

	ROOM NAME	ROOM DESIGNATION		WALL TYPE
	DOOR DESIGNATION	XXXX		GRIDLINE
	CEILING HEIGHT DESIGNATION	XXXX AFF		DETAIL DESIGNATION
	EQUIPMENT DESIGNATION	XXXX		EXTERIOR ELEVATION DESIGNATION
	WINDOW / LOUVER DESIGNATION	XX		BUILDING SECTION DESIGNATION
	PLAN KEYNOTE	?		WALL SECTION DESIGNATION
	BREAK LINE	---		DETAIL SECTION DESIGNATION
	REVISION DESIGNATION	XX		INTERIOR ELEVATION DESIGNATION
	MATCHLINE	---		TITLE DESIGNATION
	LEVEL NAME ELEVATION	XXXX		
	GRAPHIC SCALE			
	FURNITURE DESIGNATION	XXXX		
	NORTH ARROW / PLAN NORTH	PLAN NORTH		
	VIEW NAME 1	1 A101		



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DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

## KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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# CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

## PROJECT TITLE :

### JRF ARFF STATION RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

## PROJECT NO.:

CO4420-33

## SHEET TITLE:

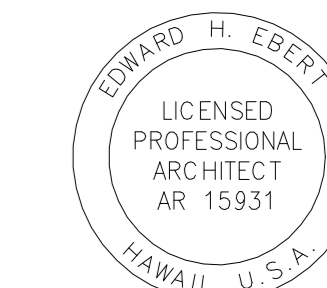
# ABBREVIATIONS AND SYMBOLS LEGEND

DATE :	DWG. NO.
01 MAY 2024	A-001
SHEET :	
4 OF 57 SHEETS	





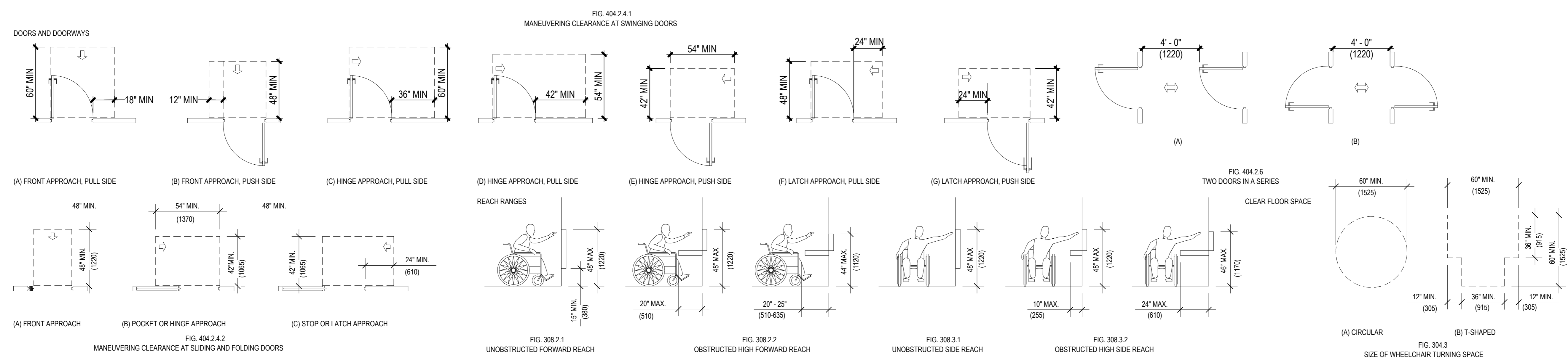
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



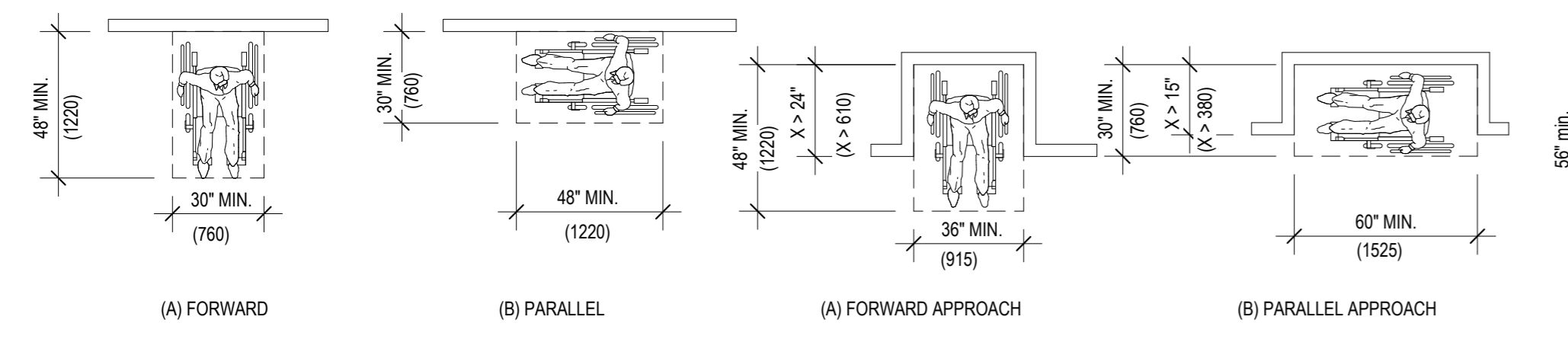
EDWARD H. EBERT  
LICENSED PROFESSIONAL ARCHITECT  
AR 15931  
04-30-2026  
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JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**



**PLUMBING ELEMENTS AND FACILITIES**



NO.	DATE	REVISIONS
<b>CONSTRUCTION DOCUMENTS</b>		
MAY 2024 DATE		

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**  
AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

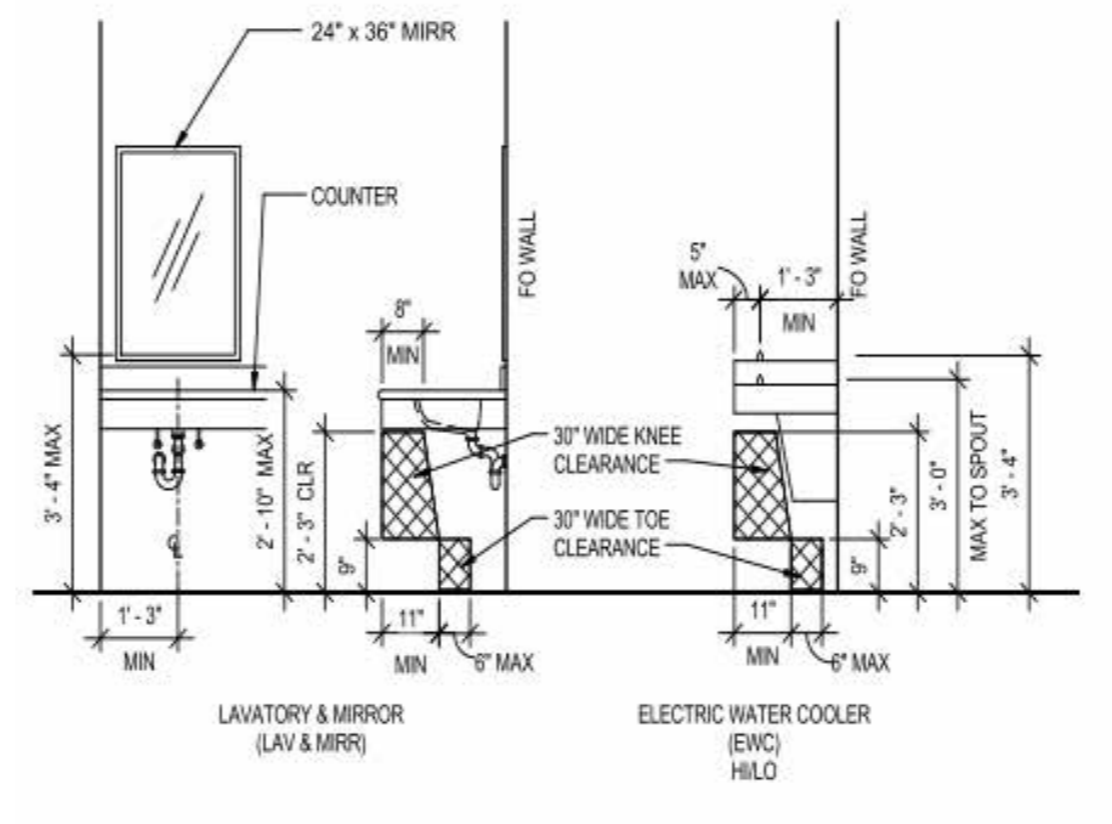
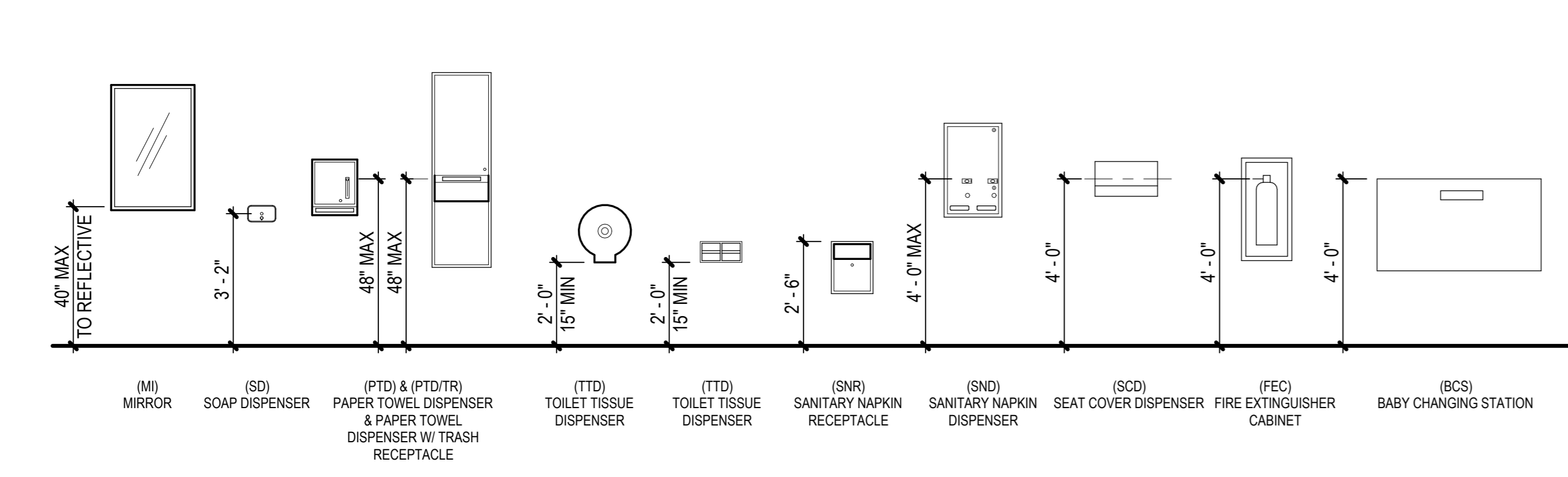
**CO4420-33**

SHEET TITLE:

**ACCESSIBILITY COMPLIANCE AND MOUNTING HEIGHTS**

DATE :	DWG. NO.
01 MAY 2024	<b>A-002</b>
SHEET :	
5 OF 57 SHEETS	

**LGD - ACCESSIBLTY COMPLIANCE**

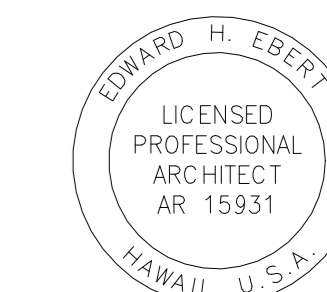


**PLUMBING FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS**





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**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

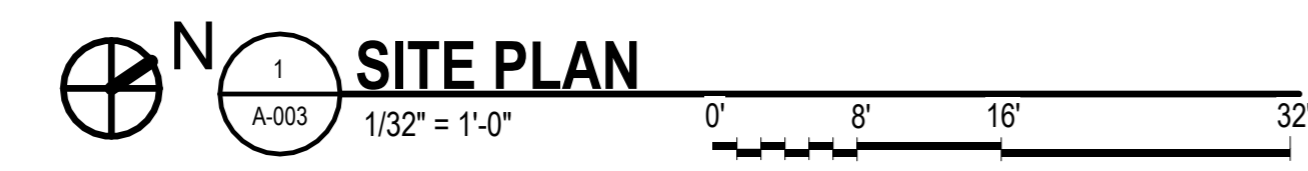
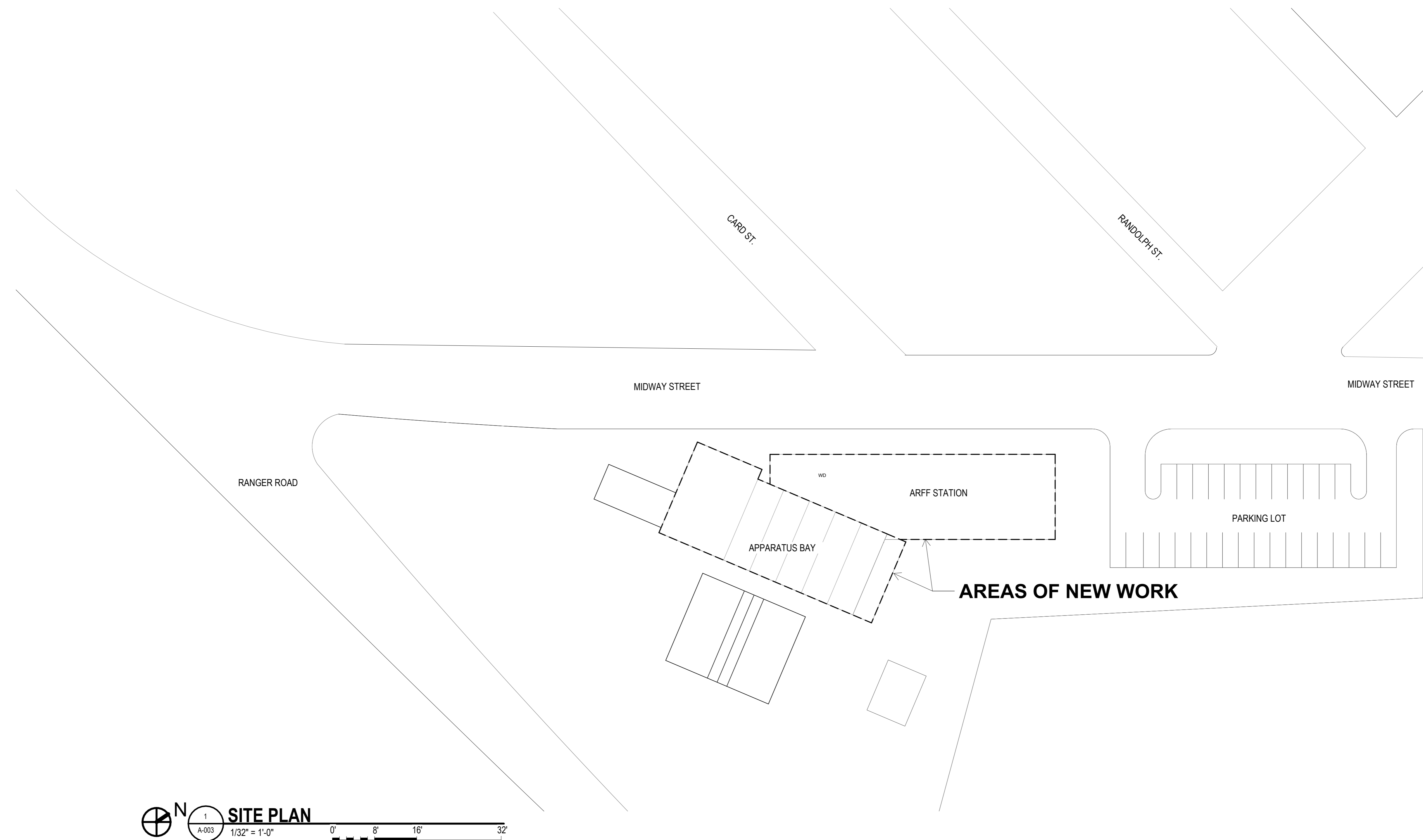
**CO4420-33**

SHEET TITLE:

**SITE PLAN**

DATE :  
**01 MAY 2024**  
SHEET :  
6 OF 57 SHEETS

DWG. NO.  
**A-003**



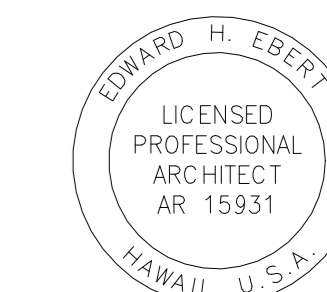
**GENERAL ARCHITECTURAL NOTES:**

- DRAWING FORMAT: THESE CONSTRUCTION DOCUMENTS HAVE BEEN PRODUCED AT DRAWING SCALES THAT RELATE TO THEIR FULL-SIZE FORMAT (22"x34"). ANY DEVIATIONS TO THIS FORMAT SIZE WILL PRODUCE DRAWINGS OUTSIDE OF THE SCALE LIMITS INDICATED. DRAWINGS REPRODUCTIONS AT ANY FORMAT SHOULD NOT BE SCALED FOR DIMENSIONAL ACCURACY.
- THE ORGANIZATION OF THESE DRAWINGS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK AMONG THE SUB-CONTRACTORS. THE DIVISION OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- CONTRACT DOCUMENTS CONSIST OF A COMBINATION OF DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS CONTAINED THEREIN. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED AT ALL. PERFORMANCE BY THE GENERAL CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS NECESSARY TO PRODUCE THE INTENDED RESULT. VARYING LEVEL OF DETAIL BETWEEN DRAWINGS AND SPECIFICATIONS, OR AMONG PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES, DOES NOT CONSTITUTE OMISSION OF INFORMATION, NOR DOES IT RELIEVE THE GENERAL CONTRACTOR FROM OBLIGATION TO CONTRACT DOCUMENTS.
- THE INTENT OF THE DRAWINGS IS TO PRODUCE THE INTENDED RESULTS UNDER RECOGNIZED STANDARDS EVEN IF NOT SHOWN, BUT REASONABLY INFERABLE THEREFROM. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED TO HIM/HER IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE GOVERNMENT OF ANY DISCREPANCIES. DETAILS TAKE PRECEDENT OVERALL. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE DETAILS BEFORE LAYOUT OF WORK.
- THE CONTRACTOR SHALL VERIFY ALL PROJECT-RELATED NEW AND EXISTING CONDITIONS, DIMENSIONS, PRIOR TO THE COMMENCEMENT OF WORK AND PROMPTLY NOTIFY THE GOVERNMENT IN WRITING OF ANY DISCREPANCIES. FIELD VERIFICATION AND OBSERVATIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE FIELD VERIFIED INFORMATION, CONFIRMATION THAT THE FIELD VERIFIED INFORMATION IS CORRECT, AND DISTRIBUTED TO THE APPROPRIATE SUB-CONTRACTORS, VENDORS, AND THE GOVERNMENT.
- INFORMATION INDICATED ON THESE DRAWINGS HAS BEEN OBTAINED FROM A LIMITED AMOUNT OF FIELD INVESTIGATION AND AVAILABLE RESOURCES AT THE TIME OF THE DRAWINGS WERE PREPARED. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE TECHNICAL REPRESENTATIVE OF THE CONTRACTING OFFICER OF ANY DISCREPANCIES, OMISSIONS, AND CONFLICTS BEFORE COMMENCING WORK.





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



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04-30-2026  
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DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

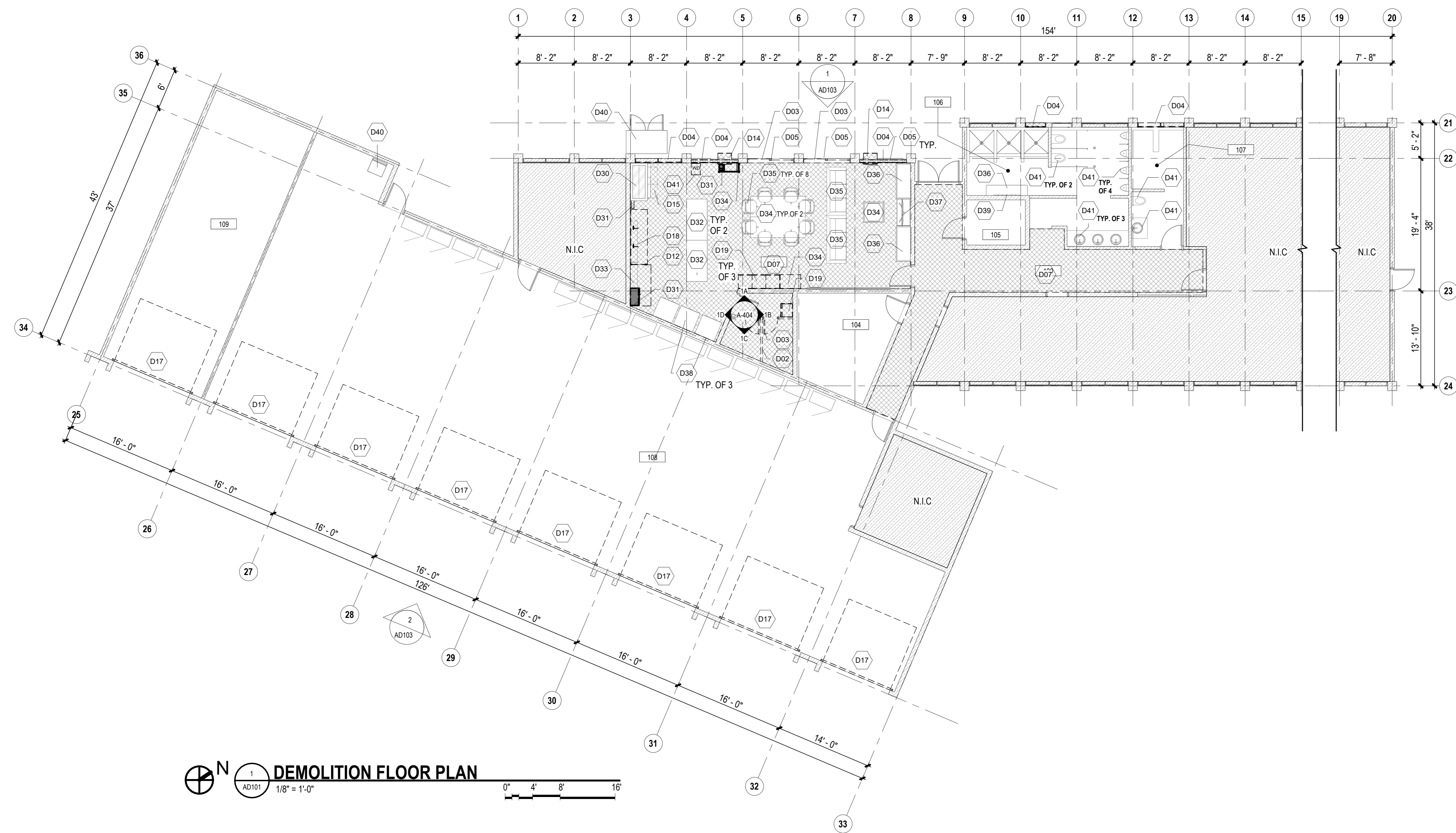
PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**DEMOLITION FLOOR PLAN**

DATE :	DWG. NO.
01 MAY 2024	<b>AD101</b>
SHEET :	
7 OF 57 SHEETS	

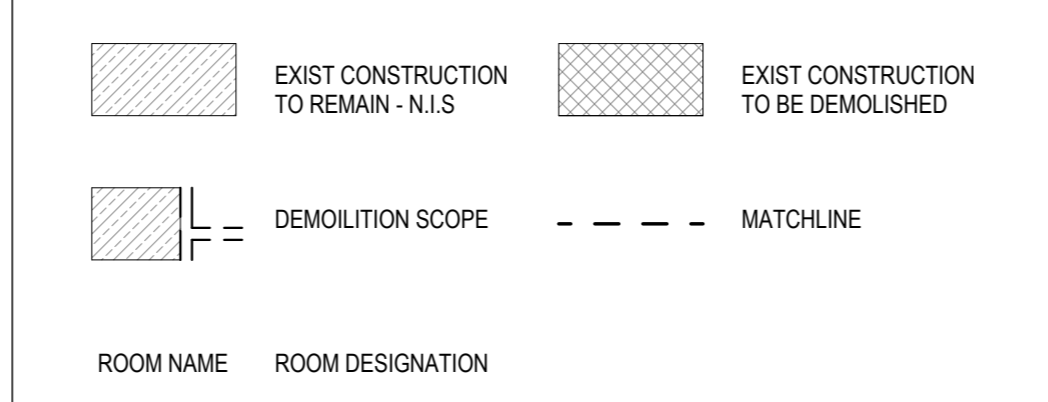


**DEMOLITION FLOOR PLAN**  
1/8" = 1'-0"  
0" 4' 8' 16'

**DEMOLITION NOTES:**

- REFER TO ENLARGED PLANS FOR MORE INFORMATION.
- COORDINATE REMOVAL AND ABATEMENT OF HAZARDOUS AND ASBESTOS CONTAINING MATERIALS.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE REMOVAL OF FURNITURE, FIXTURES AND EQUIPMENT WITH DOTA HNL REPRESENTATIVES.
- DIMENSIONING GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METAL/WOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS BETWEEN SURFACES WILL BE NOTED "CLR OR CLEAR" WHERE APPLICABLE FROM MATERIAL FINISHES.
- REFERENCE ELEVATION: ALL ELEVATIONS NOTED ON THIS PLAN CORRESPOND TO REFERENCE ELEVATION [0'-0"] FOR THIS FLOOR LEVEL. DEVIATIONS AND VARIANCES IN THIS ELEVATION MAY EXIST.

**LEGEND:**



ROOM NAME	ROOM DESIGNATION
-----------	------------------

**KEYNOTES**

- D02 DEMOLISH AND REMOVE WD FRAME WALL AS INDICATED - REFER TO STRUCT DWGS
- D03 DEMOLISH AND REMOVE DOOR, DOOR FRAME, AND ALL ASSOCIATED HARDWARE INCLUDING THRESHOLDS AND TRANSITION STRIPS
- D04 DEMOLISH AND REMOVE WINDOW, WINDOW FRAME, TRIM, BLINDS, DRAPES, AND ALL ASSOCIATED HARDWARE
- D05 DEMOLISH AND REMOVE WINDOW BLINDS AND ASSOCIATED HARDWARE
- D07 DEMOLISH AND REMOVE FLOORING, BASE, GROUT, MOTAR AND ADHESIVE TO EXIST CONC SLAB
- D12 DEMOLISH AND REMOVE DISHWASHER AND ALL ASSOCIATED PIPING AND WIRING - REFER TO PLBG & ELEC DWGS
- D14 DEMOLISH AND REMOVE A.C. WINDOW UNIT - REFER TO MECH DWGS
- D15 DEMOLISH AND REMOVE OVEN, RANGE, AND ALL ASSOCIATED WIRING, PIPING, AND CONDUIT - REFER TO MECH DWGS
- D17 DEMOLISH AND REMOVE ROLL-UP DOOR AND ALL ASSOCIATED HARDWARE, ELECTRICAL, AND CONDUIT - REFER TO ELEC AND MECH DWGS
- D18 DEMOLISH AND REMOVE SINK AND FAUCET AND ALL ASSOCIATED PIPING AND HARDWARE - REFER TO PLBG
- D19 DEMOLISH AND REMOVE CASEWORK AND ALL ASSOCIATED HARDWARE

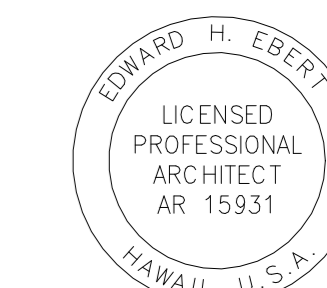
**KEYNOTES**

- D30 RANGE HOOD TO REMAIN DURING CONSTRUCTION - PROTECT IN PLACE - DEMOLISH FIRE SUPPRESSION SYSTEM
- D31 EQUIPMENT TO BE UNINSTALLED, STORED, AND REINSTALLED - REFER TO EQUIPMENT SCHEDULE
- D32 STAINLESS STEEL WORKTABLE TO BE RELOCATED BY USER - COORDINATE
- D33 STAINLESS STEEL WALL SHELF TO REMAIN AND PROTECTED DURING CONSTRUCTION - RELOCATE AS INDICATED
- D34 TABLE TO BE RELOCATED BY USER - COORDINATE
- D35 SEATING TO BE RELOCATED BY USER - COORDINATE
- D36 CASEWORK TO REMAIN AND PROTECTED DURING CONSTRUCTION - RELOCATE AS INDICATED
- D37 TELEVISION TO REMAIN AND PROTECTED DURING CONSTRUCTION - RELOCATE AS INDICATED
- D38 REFRIGERATOR TO REMAIN AND PROTECTED DURING CONSTRUCTION - COORDINATE RELOCATION W/ USER
- D39 COAT HOOKS TO REMAIN AND PROTECTED DURING CONSTRUCTION - RELOCATE AS INDICATED
- D40 EQUIPMENT TO REMAIN DURING CONSTRUCTION - PROTECT IN PLACE - REFER TO EQUIPMENT SCHEDULE
- D41 FIXTURES TO REMAIN DURING CONSTRUCTION - PROTECT IN PLACE - REFER TO PLBG DWGS





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



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04-30-2026  
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DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

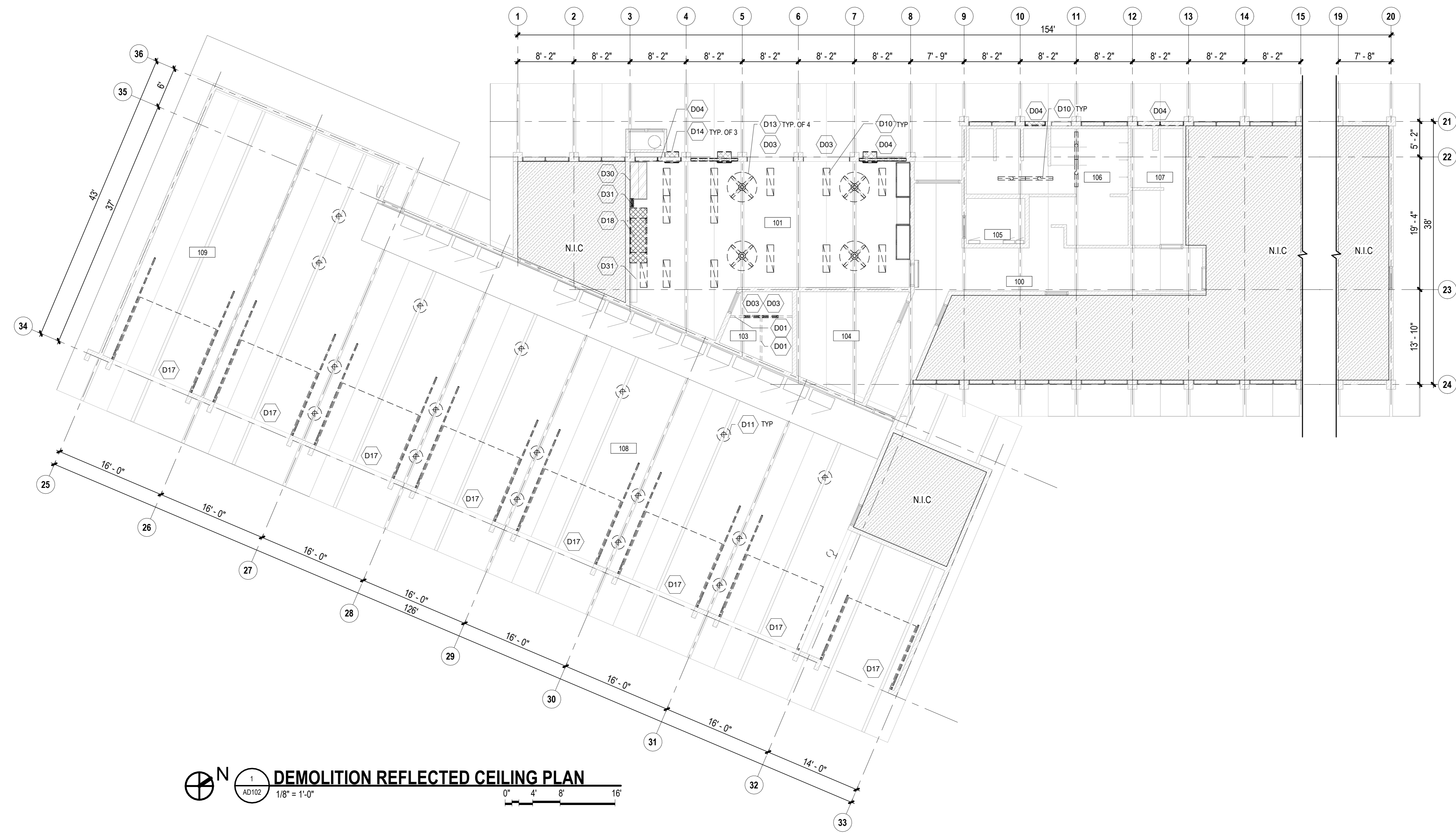
PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**DEMOLITION REFLECTED CEILING PLAN**

DATE :	DWG. NO.
01 MAY 2024	AD102
SHEET :	
8 OF 57 SHEETS	

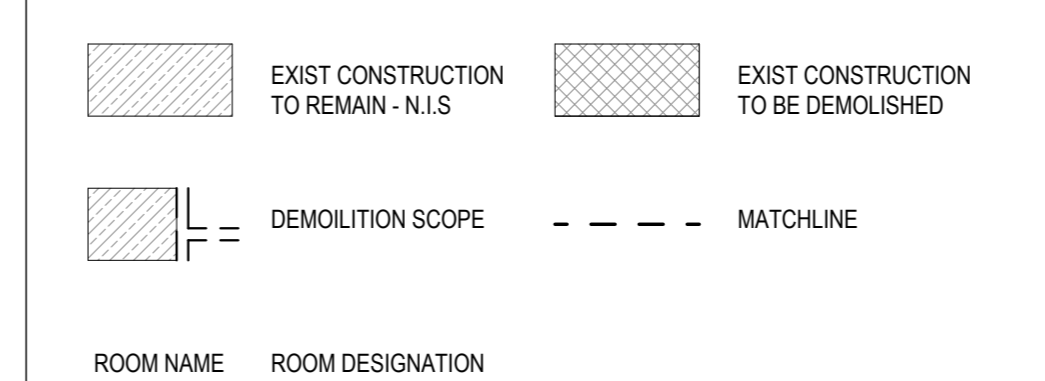


**1 DEMOLITION REFLECTED CEILING PLAN**  
AD102 1/8" = 1'-0"  
0' 4' 8' 16'

**DEMOLITION RCP NOTES:**

- REFER TO ENLARGED PLANS FOR APPLICABLE NOTES.
- COORDINATE REMOVAL AND ABATEMENT OF HAZARDOUS AND ASBESTOS CONTAINING MATERIALS.
- SEE ELECTRICAL AND MECHANICAL FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE REMOVAL OF FURNITURE, FIXTURES, AND EQUIPMENT WITH DOTA HNL REPRESENTATIVES.
- REFERENCE ELEVATION: ALL ELEVATIONS NOTED ON THIS PLAN CORRESPOND TO REFERENCE ELEVATION (+0) FOR THIS FLOOR LEVEL. DEVIATIONS AND VARIANCES IN THIS ELEVATION MAY EXIST.

**LEGEND:**



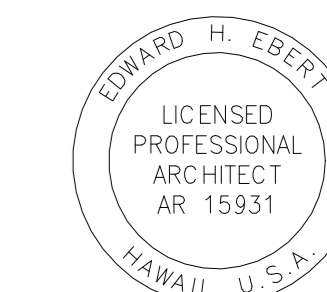
**KEYNOTES**

D01	DEMOLISH AND REMOVE FURRING OR PARTITION AS INDICATED INCLUDING WALL FINISHES - REMOVE INSULATION AND WALL BASE AS OCCURS
D03	DEMOLISH AND REMOVE DOOR, DOOR FRAME, AND ALL ASSOCIATED HARDWARE INCLUDING THRESHOLDS AND TRANSITION STRIPS
D04	DEMOLISH AND REMOVE WINDOW, WINDOW FRAME, TRIM, BLINDS, DRAPES, AND ALL ASSOCIATED HARDWARE
D10	DEMOLISH AND REMOVE ELEC EQPT AND ALL ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
D11	DEMOLISH AND REMOVE LIGHT FIXT AND ALL ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
D13	DEMOLISH AND REMOVE CEILING FANS AND ASSOCIATED WIRING - REFER TO ELEC DWGS
D14	DEMOLISH AND REMOVE A.C. WINDOW UNIT - REFER TO MECH DWGS
D17	DEMOLISH AND REMOVE ROLL-UP DOOR AND ALL ASSOCIATED HARDWARE, ELECTRICAL, AND CONDUIT - REFER TO ELEC AND MECH DWGS
D18	DEMOLISH AND REMOVE SINK AND FAUCET AND ALL ASSOCIATED PIPING AND HARDWARE - REFER TO PLBG
D30	RANGE HOOD TO REMAIN DURING CONSTRUCTION - PROTECT IN PLACE - DEMOLISH FIRE SUPPRESSION SYSTEM
D31	EQUIPMENT TO BE UNINSTALLED, STORED, AND REINSTALLED - REFER TO EQUIPMENT SCHEDULE

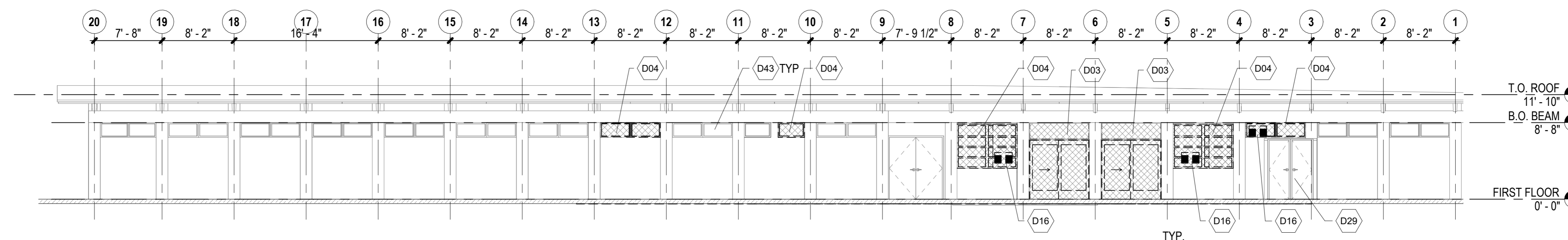




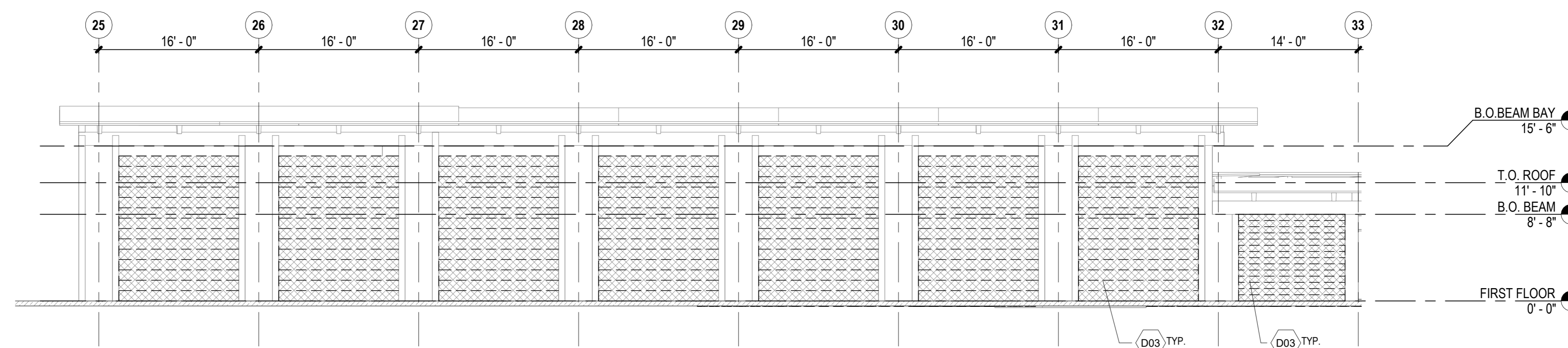
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DEPARTMENT OF TRANSPORTATION  
AIRPORTS



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1 DEMOLITION NORTH ELEVATION  
AD103 1/8" = 1'-0"



2 DEMOLITION SOUTH ELEVATION  
AD103 1/8" = 1'-0"

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JV/MM	MM	JV	EE

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**  
AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

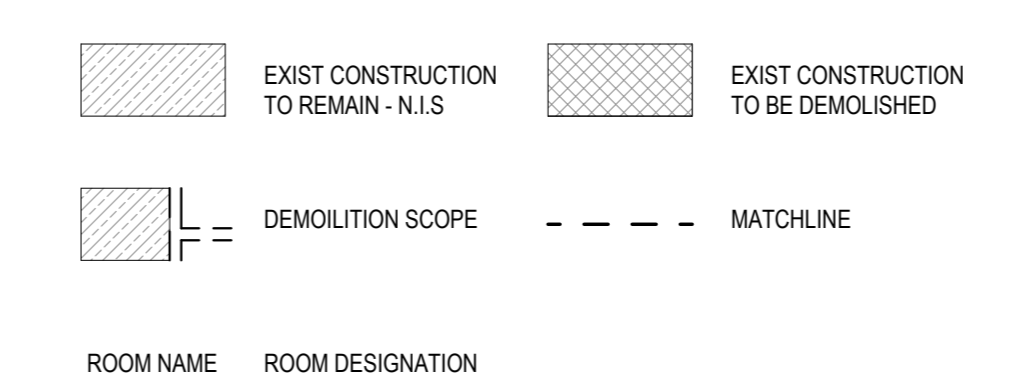
**DEMOLITION EXTERIOR ELEVATION**

DATE :	DWG. NO.
01 MAY 2024	
SHEET :	<b>AD103</b>
9 OF 57 SHEETS	

**DEMOLITION RCP NOTES:**

- REFER TO ENLARGED PLANS FOR APPLICABLE NOTES.
- COORDINATE REMOVAL AND ABATEMENT OF HAZARDOUS AND ASBESTOS CONTAINING MATERIALS.
- SEE ELECTRICAL AND MECHANICAL FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE REMOVAL OF FURNITURE, FIXTURES, AND EQUIPMENT WITH DOTA HNL REPRESENTATIVES.
- REFERENCE ELEVATION: ALL ELEVATIONS NOTED ON THIS PLAN CORRESPOND TO REFERENCE ELEVATION [+0] FOR THIS FLOOR LEVEL. DEVIATIONS AND VARIANCES IN THIS ELEVATION MAY EXIST.

**LEGEND:**



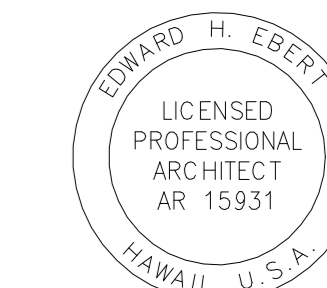
**KEYNOTES**

D03	DEMOLISH AND REMOVE DOOR, DOOR FRAME, AND ALL ASSOCIATED HARDWARE INCLUDING THRESHOLDS AND TRANSITION STRIPS
D04	DEMOLISH AND REMOVE WINDOW, WINDOW FRAME, TRIM, BLINDS, DRAPES, AND ALL ASSOCIATED HARDWARE
D16	REMOVE SPLIT SYSTEM A.C AND ALL ASSOCIATED PIPING AND WIRING - REFER TO MECH DWGS
D29	MAINTENANCE SHED TO REMAIN DURING CONSTRUCTION - PROTECT IN PLACE
D43	EXISTING WINDOW TO REMAIN AND PROTECTED IN PLACE





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
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**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

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**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

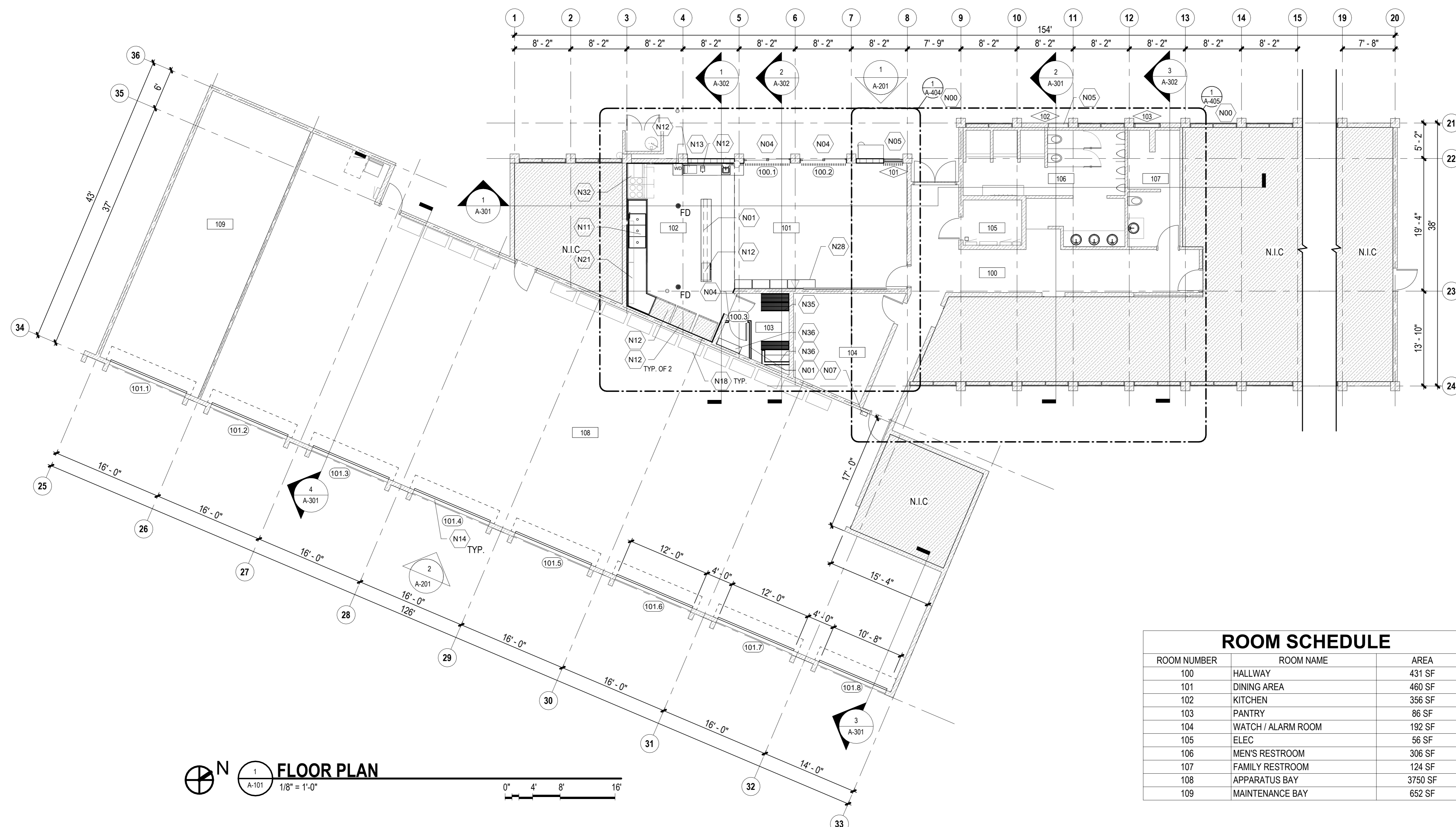
**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**FLOOR PLAN**

DATE :	DWG. NO.
01 MAY 2024	A-101
SHEET :	
10 OF 57 SHEETS	

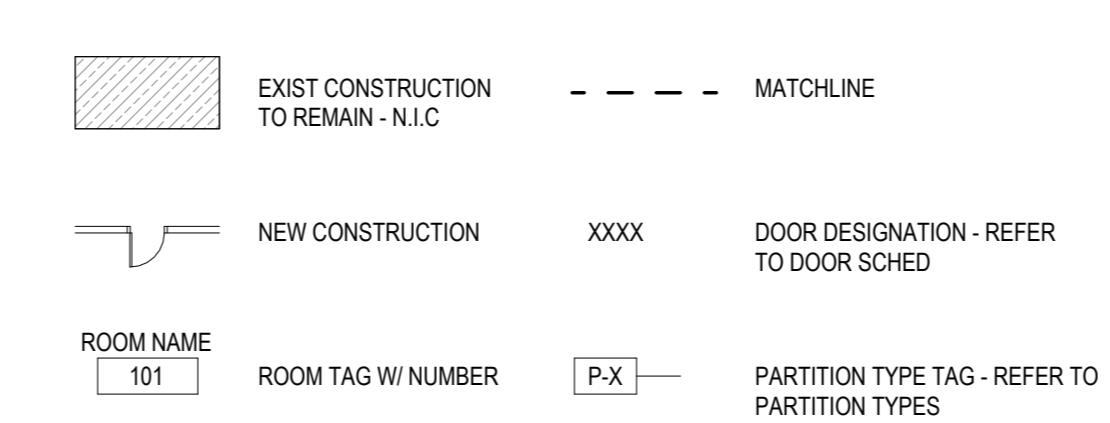


ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF
109	MAINTENANCE BAY	652 SF

**GENERAL ARCHITECTURAL NOTES:**

- DRAWING FORMAT: THESE CONSTRUCTION DOCUMENTS HAVE BEEN PRODUCED AT DRAWING SCALES THAT RELATE TO THEIR FULL-SIZE FORMAT (22"x34"). ANY DEVIATIONS TO THIS FORMAT SIZE WILL PRODUCE DRAWINGS OUTSIDE OF THE SCALE LIMITS INDICATED. DRAWINGS REPRODUCTIONS AT ANY FORMAT SHOULD NOT BE SCALED FOR DIMENSIONAL ACCURACY. THE ORGANIZATION OF THESE DRAWINGS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK AMONG THE SUB-CONTRACTORS. THE DIVISION OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- CONTRACT DOCUMENTS CONSIST OF A COMBINATION OF DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS CONTAINED THEREIN. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED AT ALL. PERFORMANCE BY THE GENERAL CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS NECESSARY TO PRODUCE THE INTENDED RESULT. VARYING LEVEL OF DETAIL BETWEEN DRAWINGS AND SPECIFICATIONS, OR AMONG PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES, DOES NOT CONSTITUTE OMISSION OF INFORMATION, NOR DOES IT RELIEVE THE GENERAL CONTRACTOR FROM OBLIGATION TO CONTRACT DOCUMENTS.
- THE INTENT OF THE DRAWINGS IS TO PRODUCE THE INTENDED RESULTS UNDER RECOGNIZED STANDARDS EVEN IF NOT SHOWN, BUT REASONABLY INFERABLE THEREFROM. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED TO HIM/HER IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE GOVERNMENT OF ANY DISCREPANCIES. DETAILS TAKE PRECEDENT OVERALL. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE DETAILS BEFORE LAYOUT OF WORK.
- THE CONTRACTOR SHALL VERIFY ALL PROJECT-RELATED NEW AND EXISTING CONDITIONS, DIMENSIONS, PRIOR TO THE COMMENCEMENT OF WORK AND PROMPTLY NOTIFY THE GOVERNMENT IN WRITING OF ANY DISCREPANCIES. FIELD VERIFICATION AND OBSERVATIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE FIELD VERIFIED INFORMATION, CONFIRMATION THAT THE FIELD VERIFIED INFORMATION IS CORRECT, AND DISTRIBUTED TO THE APPROPRIATE SUB-CONTRACTORS, VENDORS, AND THE GOVERNMENT.
- INFORMATION INDICATED ON THESE DRAWINGS HAS BEEN OBTAINED FROM A LIMITED AMOUNT OF FIELD INVESTIGATION AND AVAILABLE RESOURCES AT THE TIME OF THE DRAWINGS WERE PREPARED. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE TECHNICAL REPRESENTATIVE OF THE CONTRACTING OFFICER OF ANY DISCREPANCIES, OMISSIONS, AND CONFLICTS BEFORE COMMENCING WORK.

**LEGEND:**



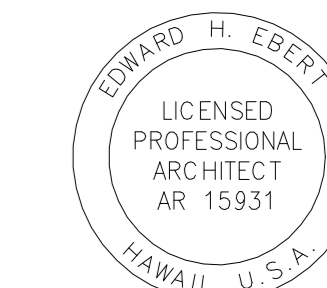
**KEYNOTES**

N00	REFER TO ENLARGED PLAN FOR NEW SCOPE NOTES
N01	PROVIDE FRAMED PARTITION AND GYP BD - REFER TO PARTITION TYPES
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N05	WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N11	COORDINATE SINK AND FAUCET AND ASSOCIATED PIPING - REFER TO PLBG DWGS
N12	REINSTALL EXIST EQUIPMENT AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N13	REINSTALL WATER DISPENSER AND CONNECT TO WATER SYSTEM - REFER TO PLBG DWGS
N14	ROLL-UP DOOR AND FRAME INCLUDING THRESHOLD AND ASSOCIATED HARDWARE - REFER TO ELEC DWGS
N18	REINSTALL FURNITURE AS INDICATED BY USER - COORDINATE
N21	EXISTING STAINLESS STEEL SHELF - REFER TO EQUIPMENT SCHEDULE
N28	PROVIDE STAINLESS STEEL DISH CABINET AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N32	OVEN, RANGE, AND ALL ASSOCIATED WIRING, PIPING, AND CONDUIT - REFER TO MECH DWGS
N35	SLIDING STORAGE SHELVES AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N36	PROVIDE STORAGE SHELVES - REFER TO EQUIPMENT SCHEDULE AND CASEWORK DETAILS





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EDWARD H. EBERT  
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AR 15931  
04-30-2026  
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DSGN. DRWN. CHKD. APPD.

JV/MM MM JV EE

KEY PLAN / NOTES:

NO. DATE REVISIONS

**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**FLOOR FINISH PLAN**

DATE :

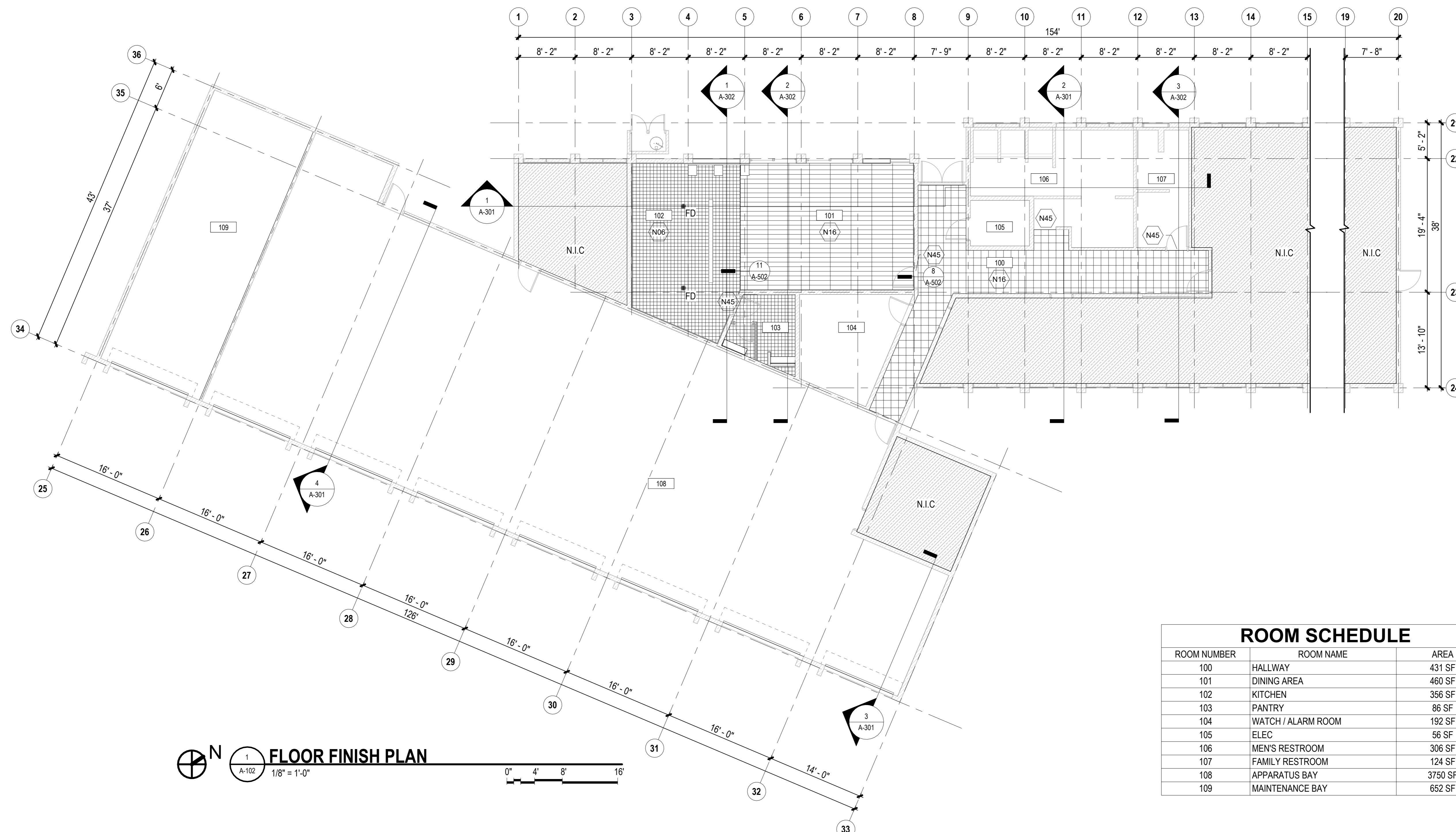
01 MAY 2024

SHEET :

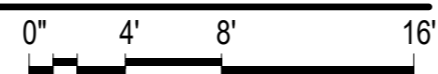
11 OF 57 SHEETS

DWG. NO.

**A-102**



**FLOOR FINISH PLAN**  
1 A-102  
1/8" = 1'-0"



ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF
109	MAINTENANCE BAY	652 SF

**FINISH NOTES:**

- ALL EXIST FINISH FLOORING AND EXIST WALL FINISH TO BE DEMOLISHED AND REPLACED PER SCHED.
- ALL WALLS TO BE PAINTED UNO.
- ALL FLOORING TRANSITIONS OCCUR AT CENTERLINE OF DOOR OR OPENING UNO.
- REFER TO ENLARGED PLANS FOR MORE INFORMATION.

**FINISH LEGEND:**

- 12" X 12" RESILIENT TILE
- RESILIENT PLANK TILE
- 12" X 24" PORCELAIN TILE

**KEYNOTES**

- N06 TILE FLOORING AND RESILIENT BASE PER TO FINISH SCHED - PROVIDE SLOPED INSTALLATION AND DRAINAGE AS INDICATED
- N16 RESILIENT FLOORING AND RESILIENT BASE PER FINISH SCHED
- N45 EXISTING THRESHOLD TO REMAIN AND PROTECTED DURING CONSTRUCTION - ALIGN NEW FLOORING WITH EXISTING THRESHOLD





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MAY 2024 DATE		

**PROJECT TITLE :**

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AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

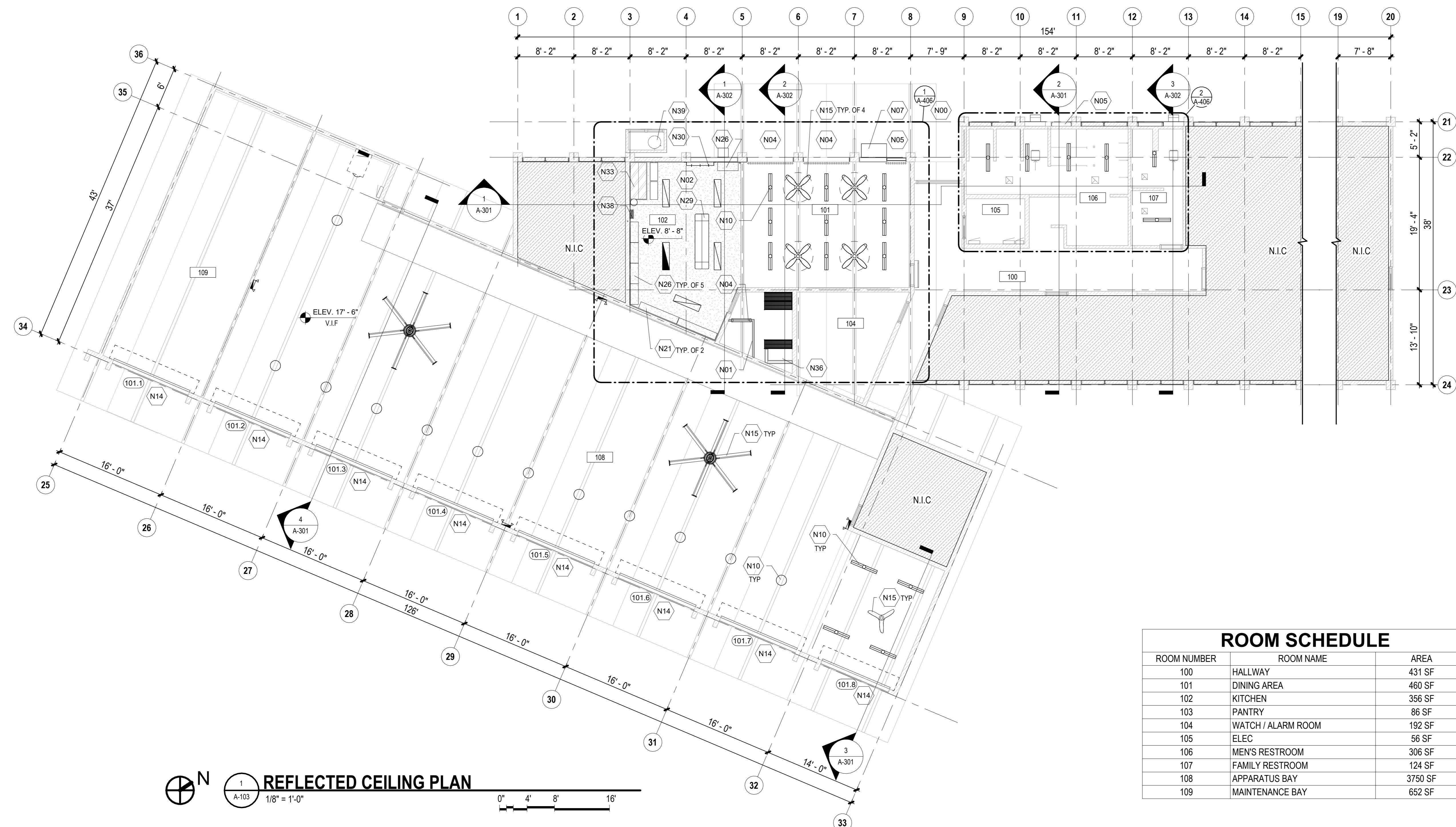
**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**REFLECTED CEILING PLAN**

DATE :	DWG. NO.
01 MAY 2024	<b>A-103</b>
SHEET :	
12 OF 57 SHEETS	



ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF
109	MAINTENANCE BAY	652 SF

- RCP NOTES:**
- REFER TO ENLARGED PLANS FOR MORE INFORMATION.
  - INSTALL PIPING AND CONDUIT TIGHT TO STRUCTURE TO ENSURE SCHEDULED CEILINGS CAN BE INSTALLED AT DESIGN ELEVATION. FULLY COORDINATE BETWEEN CEILING, PLUMBING, MECHANICAL, FIRE, AND ELECTRICAL.
  - DIMENSIONING GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METALWOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS BETWEEN SURFACES WILL BE NOTED "CLR OR CLEAR" WHERE APPLICABLE FROM MATERIAL FINISHES.
  - REFER TO FINISH PLAN AND ROOM FINISH SCHEDULE FOR FLOOR AND ROOM FINISHES.
  - AT EXPOSED CEILING RECEIVING PAINT OR SPRAY APPLIED FINISHED - ALSO PAINT PRIMARY STRUCTURE, DUCTWORK, CONDUIT, PIPING, INSULATION, AND DECIVES AS ALLOWABLE PER PRODUCT WARRANTIES. REFER TO MECHANICAL DWGS FOR EQUIPMENT COORDINATION.

**RCP LEGEND**

	EXIST CONSTRUCTION TO REMAIN		MECHANICAL DIFFUSERS- SEE MECHANICAL DRAWINGS BY OTHERS
	SUSPENDED GYP BD CLG SYSTEM		RECESSED DOWN LIGHT - SEE ELECTRICAL DRAWINGS BY OTHERS
	NO WORK IN AREA		2 X 4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS BY OTHERS
	EXPOSED TO STRUCTURE		PENDANT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS BY OTHERS
	CEILING HEIGHT AS NOTED A.F.F.		TRACK LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS BY OTHERS

**KEYNOTES**

N00	REFER TO ENLARGED PLAN FOR NEW SCOPE NOTES
N01	PROVIDE FRAMED PARTITION AND GYP BD - REFER TO PARTITION TYPES
N02	PROVIDE SUSPENDED GYP BD CEILING O/ MTL FRAMING - COORDINATE INSTALLATION OF CEILING-MOUNTED FIXTURES AND EQUIPMENT
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N05	WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N10	LIGHT FIXT - COORDINATE ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N14	ROLL-UP DOOR AND FRAME INCLUDING THRESHOLD AND ASSOCIATED HARDWARE - REFER TO ELEC DWGS
N15	CEILING FAN AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS AND EQUIPMENT SCHEDULE
N21	EXISTING STAINLESS STEEL SHELF - REFER TO EQUIPMENT SCHEDULE
N26	PROVIDE WALL MOUNTED STAINLESS STEEL CABINET AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N29	PROVIDE CEILING MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE

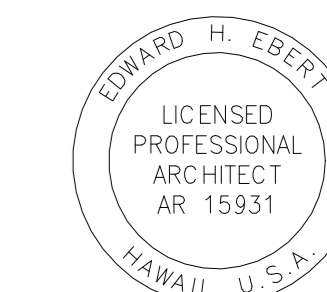
**KEYNOTES**

N30	PROVIDE WALL MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N33	EXISTING RANGE HOOD - REFER TO MECH DWGS
N36	PROVIDE STORAGE SHELVES - REFER TO EQUIPMENT SCHEDULE AND CASEWORK DETAILS
N38	EXISTING PAPER TOWEL DISPENSER TO BE REINSTALLED AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N39	EXISTING MECHANICAL EQPT - REFER TO MECH DWGS





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CONSTRUCTION DOCUMENTS

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AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

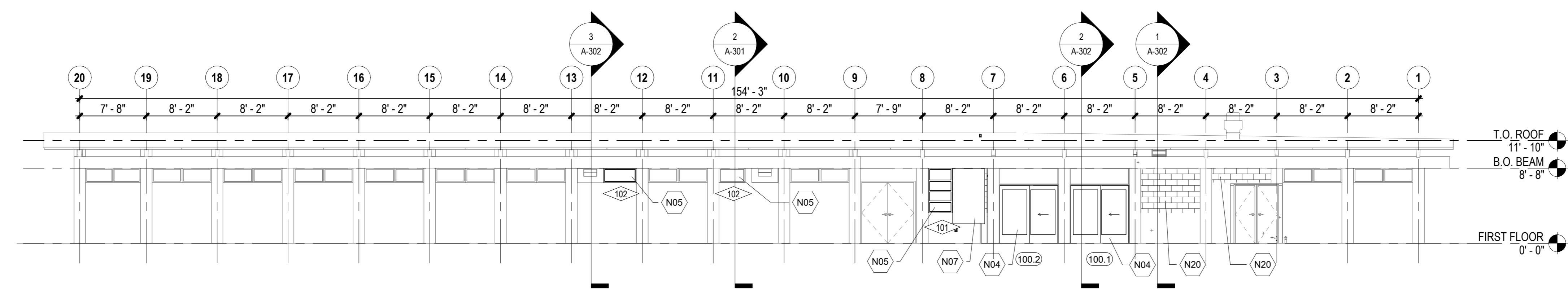
PROJECT NO.:

CO4420-33

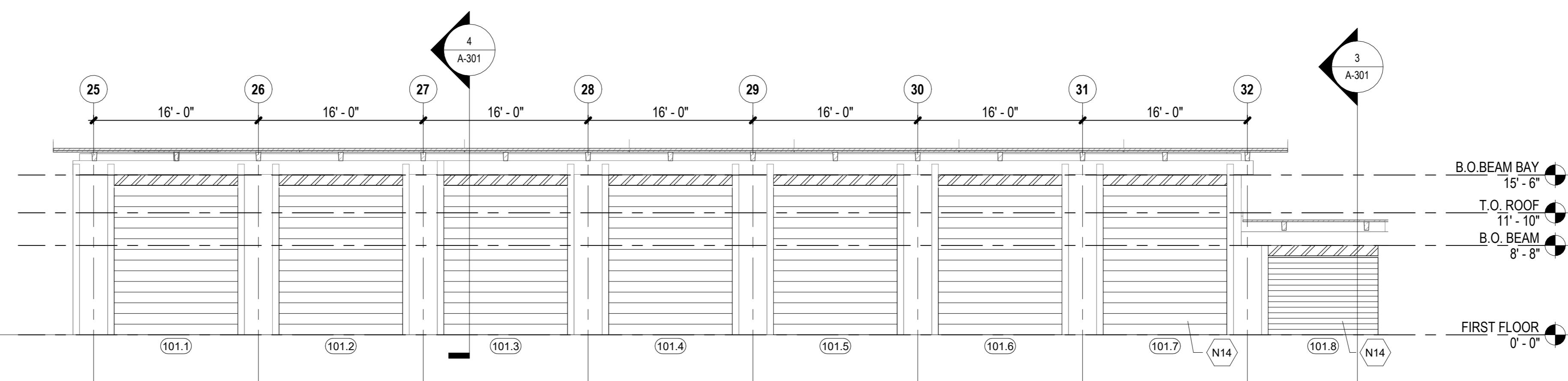
SHEET TITLE:

EXTERIOR ELEVATIONS

DATE :	DWG. NO.
01 MAY 2024	A-201
SHEET :	
13 OF 57 SHEETS	



1 NORTH ELEVATION  
A-201 1/8" = 1'-0"  
0' 4' 8' 16'



2 SOUTH ELEVATION  
A-201 1/8" = 1'-0"  
0' 4' 8' 16'

ELEVATION NOTES:

- NEW EXTERIOR CONCRETE, STRUCTURAL STEEL, DOORS, FRAMES, METAL TRIMS, CAPS, CANOPIES, ETC. TO BE PAINTED - REFER TO MATERIAL AND FINISH SCHEDULE.

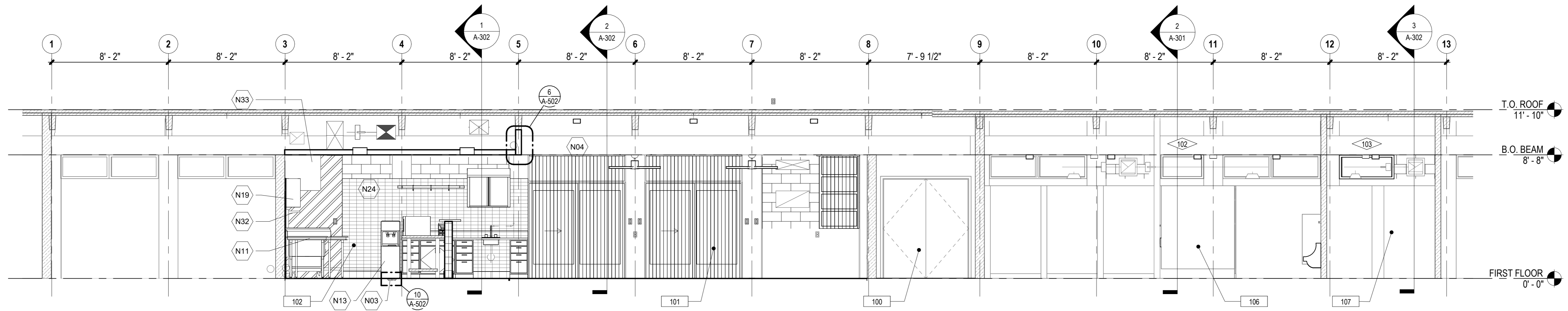
ELEVATION LEGEND:

- NO WORK IN AREA
- CMU
- WINDOW TAG
- DOOR TAG

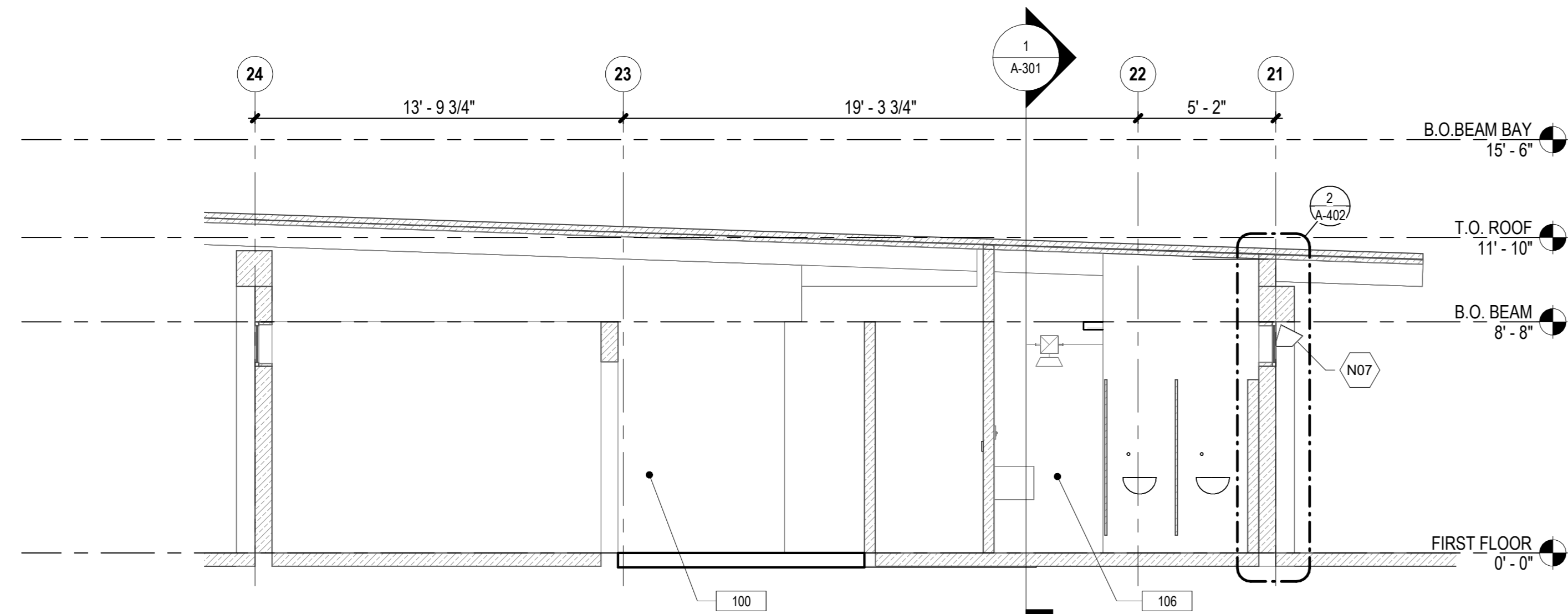
KEYNOTES

- N04 DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
- N05 WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
- N07 COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
- N14 ROLL-UP DOOR AND FRAME INCLUDING THRESHOLD AND ASSOCIATED HARDWARE - REFER TO ELEC DWGS
- N20 CMU INFILL EXISTING OPENING - PAINT AS SCHEDULED

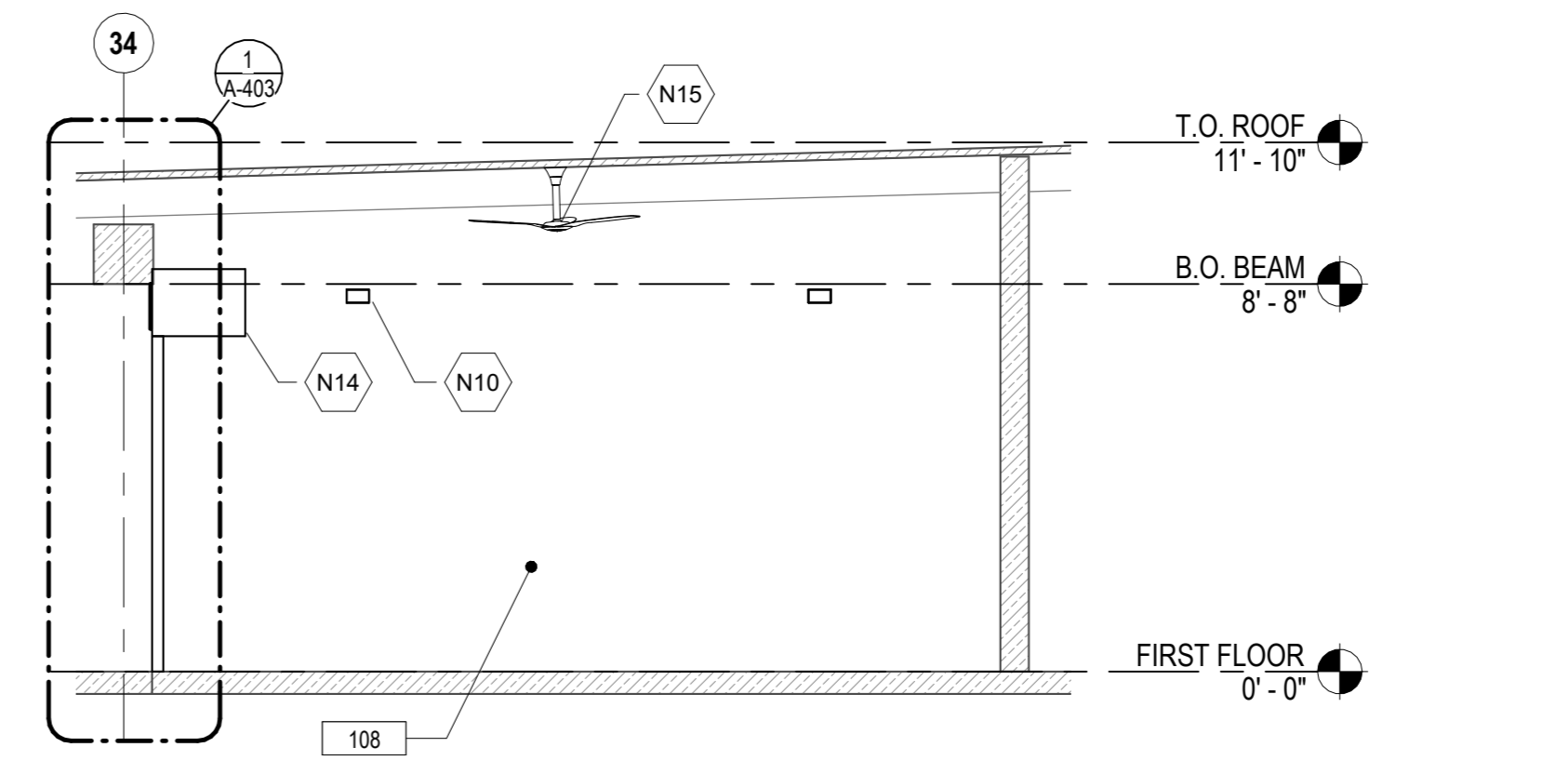




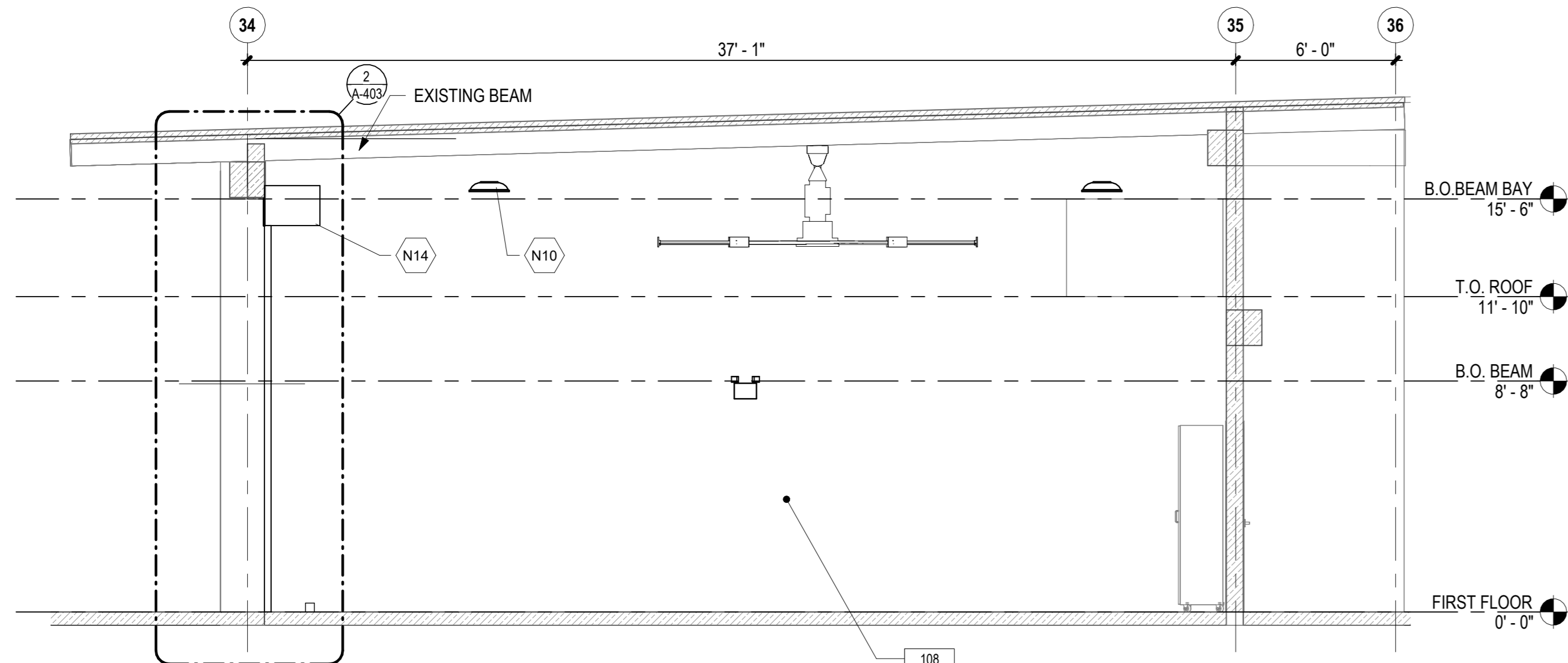
**1 BUILDING SECTION - KITCHEN & RESTROOMS**  
 A-301 1/4" = 1'-0"  
 0' 2' 4' 8'



**2 BUILDING SECTION - MEN'S RESTROOM**  
 A-301 1/4" = 1'-0"  
 0' 2' 4' 8'



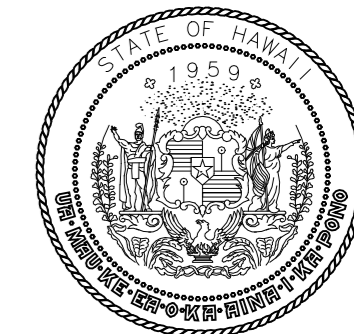
**3 BUILDING SECTION - APPARATUS BAY - LOW ROOF**  
 A-301 1/4" = 1'-0"  
 0' 2' 4' 8'



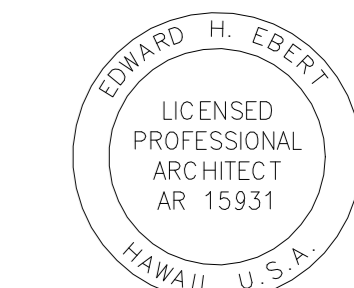
**4 BUILDING SECTION - APPARATUS BAY**  
 A-301 1/4" = 1'-0"  
 0' 2' 4' 8'

ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF

KEYNOTES	
N03	COORDINATE FLOOR DRAIN - PROVIDE SLOPED INSTALLATION AND DRAINAGE AS INDICATED - REFER TO PLBG DWGS
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N10	LIGHT FIXT - COORDINATE ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N11	COORDINATE SINK AND FAUCET AND ASSOCIATED PIPING - REFER TO PLBG DWGS
N13	REINSTALL WATER DISPENSER AND CONNECT TO WATER SYSTEM - REFER TO PLBG DWGS
N14	ROLL-UP DOOR AND FRAME INCLUDING THRESHOLD AND ASSOCIATED HARDWARE - REFER TO ELEC DWGS
N15	CEILING FAN AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS AND EQUIPMENT SCHEDULE
N19	FIRE SUPPRESSION SYSTEM - REFER TO MECH DWGS
N24	WALL TILE FINISH - REFER TO INTR ELEVS, DETAILS AND ROOM FIN SCHED
N32	OVEN, RANGE, AND ALL ASSOCIATED WIRING, PIPING, AND CONDUIT - REFER TO MECH DWGS
N33	EXISTING RANGE HOOD - REFER TO MECH DWGS



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JV/MM	MM	JV	EE

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
 DATE

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**JRF ARFF STATION RENOVATIONS**

AT  
 KALAELOA AIRPORT  
 KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**BUILDING SECTIONS**

DATE :

01 MAY 2024

SHEET :

14 OF 57 SHEETS

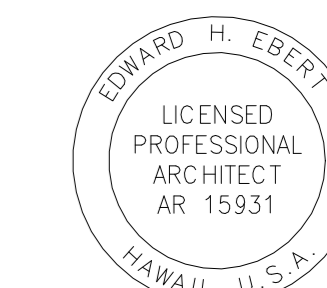
DWG. NO.

**A-301**





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<b>JRF ARFF STATION RENOVATIONS</b>		
AT KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII		
<b>PROJECT NO.:</b>		
<b>CO4420-33</b>		
<b>SHEET TITLE:</b>		
<b>BUILDING SECTIONS</b>		

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AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**BUILDING SECTIONS**

**BUILDING SECTIONS**

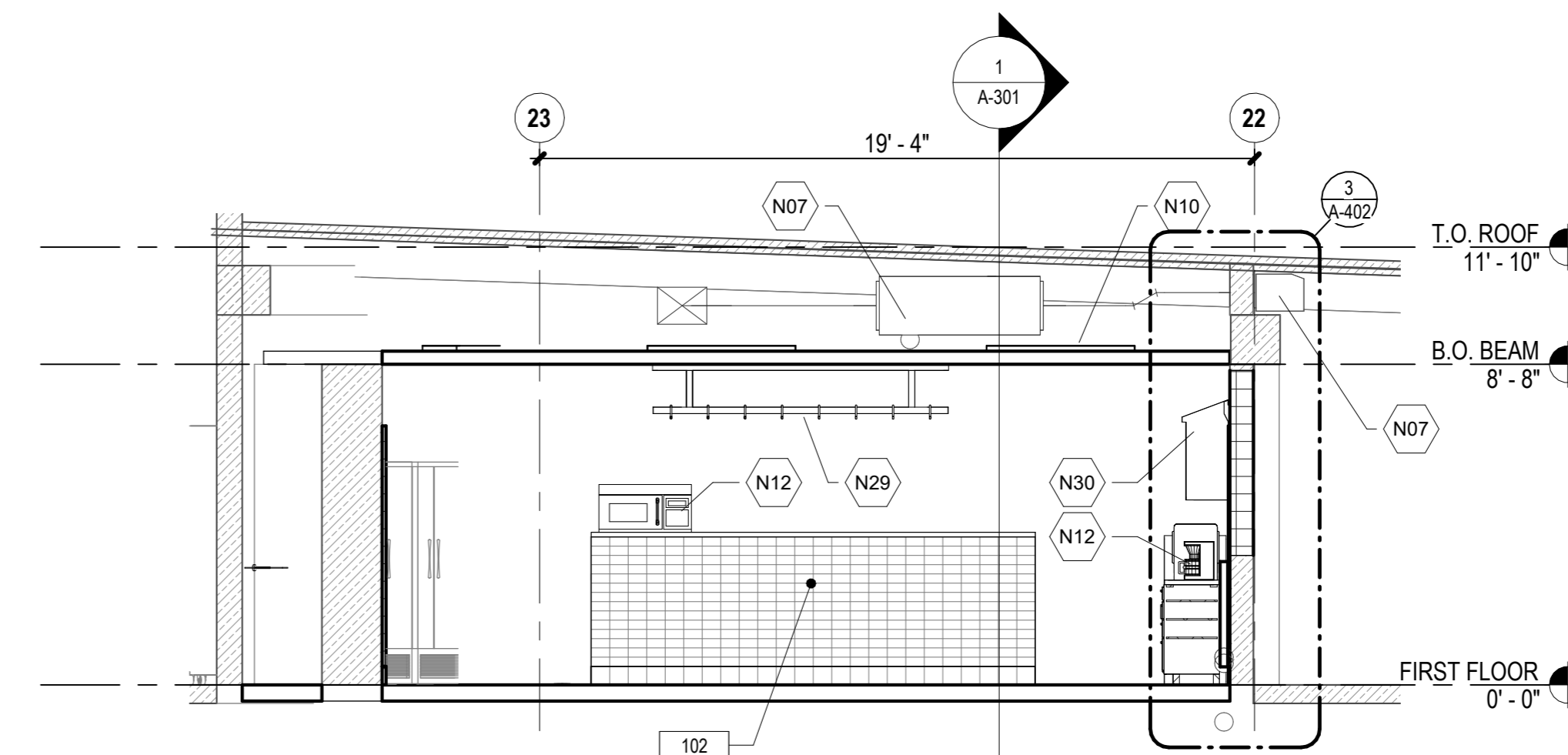
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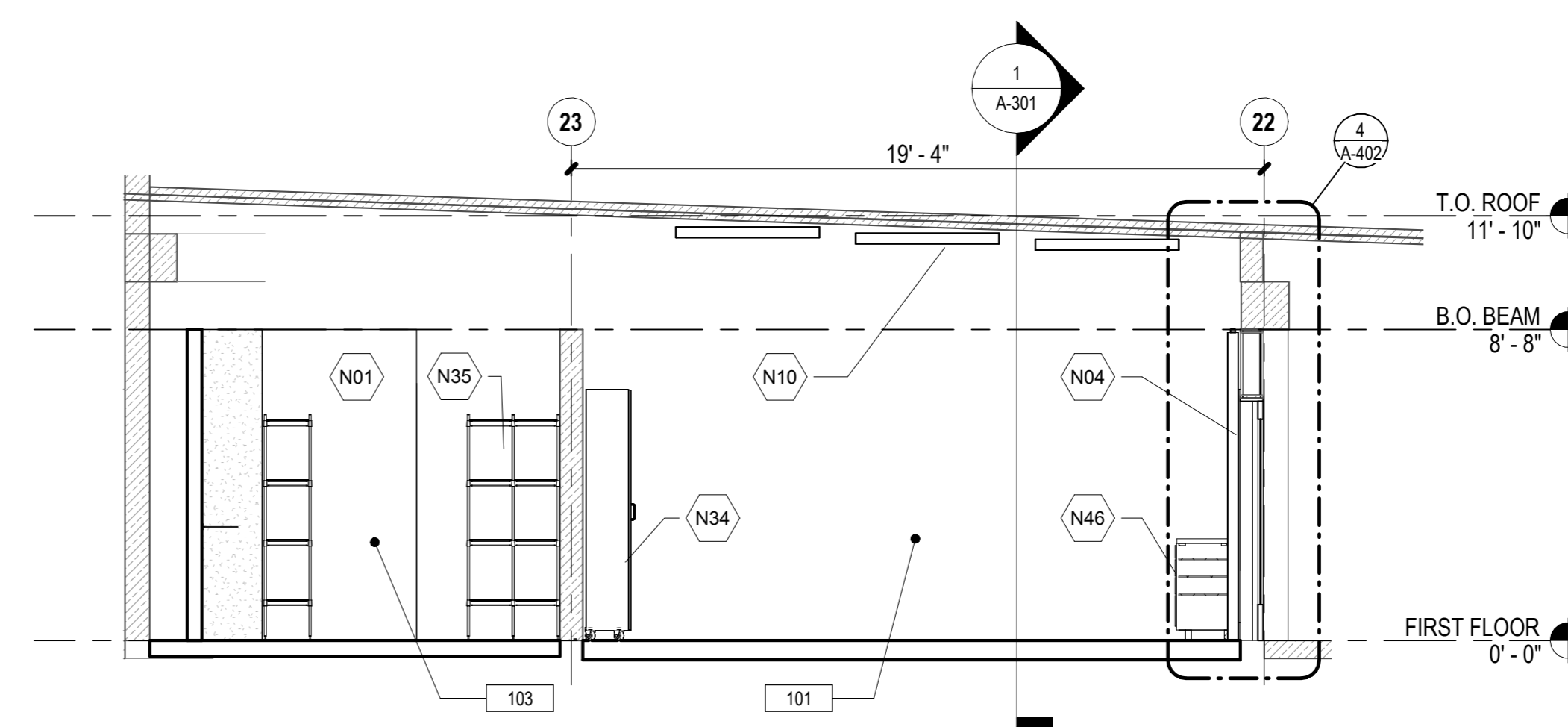
15 OF 57 SHEETS

DWG. NO.

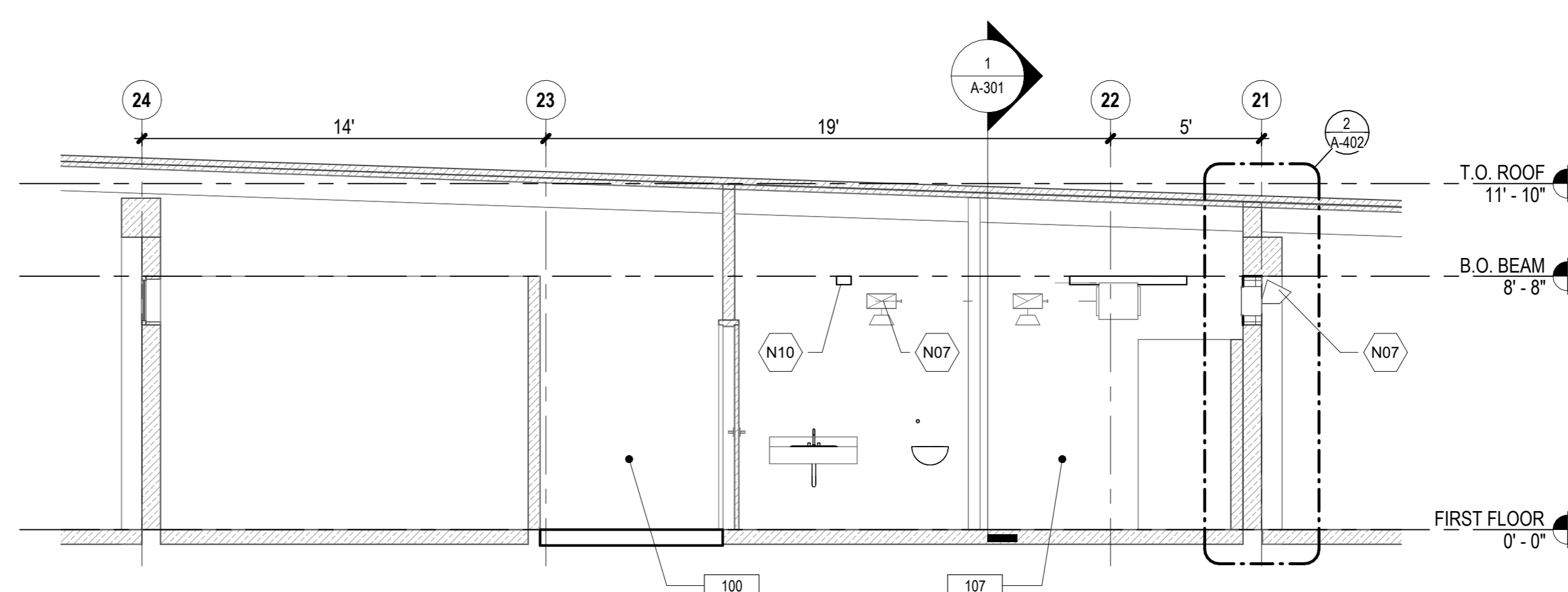
**A-302**



**1 BUILDING SECTION - KITCHEN @ MECH HOOD**  
1/4" = 1'-0"



**2 BUILDING SECTION - KITCHEN @ SLIDING DOOR**  
1/4" = 1'-0"



**3 BUILDING SECTION - FAMILY RESTROOM**  
1/4" = 1'-0"

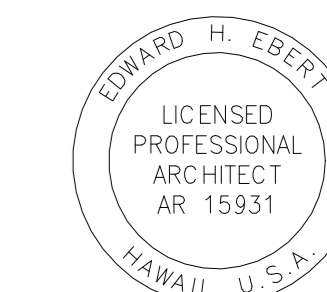
ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF

KEYNOTES	
N01	PROVIDE FRAMED PARTITION AND GYP BD - REFER TO PARTITION TYPES
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N10	LIGHT FIXT - COORDINATE ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N12	REINSTALL EXIST EQUIPMENT AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N29	PROVIDE CEILING MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N30	PROVIDE WALL MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N34	PROVIDE STAINLESS STEEL MOBILE PANTRY CABINET - REFER TO EQUIPMENT SCHEDULE
N35	SLIDING STORAGE SHELVES AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N46	PROVIDE STAINLESS STEEL BASE CABINETS AS INDICATED - REFER TO EQUIPMENT SCHEDULE





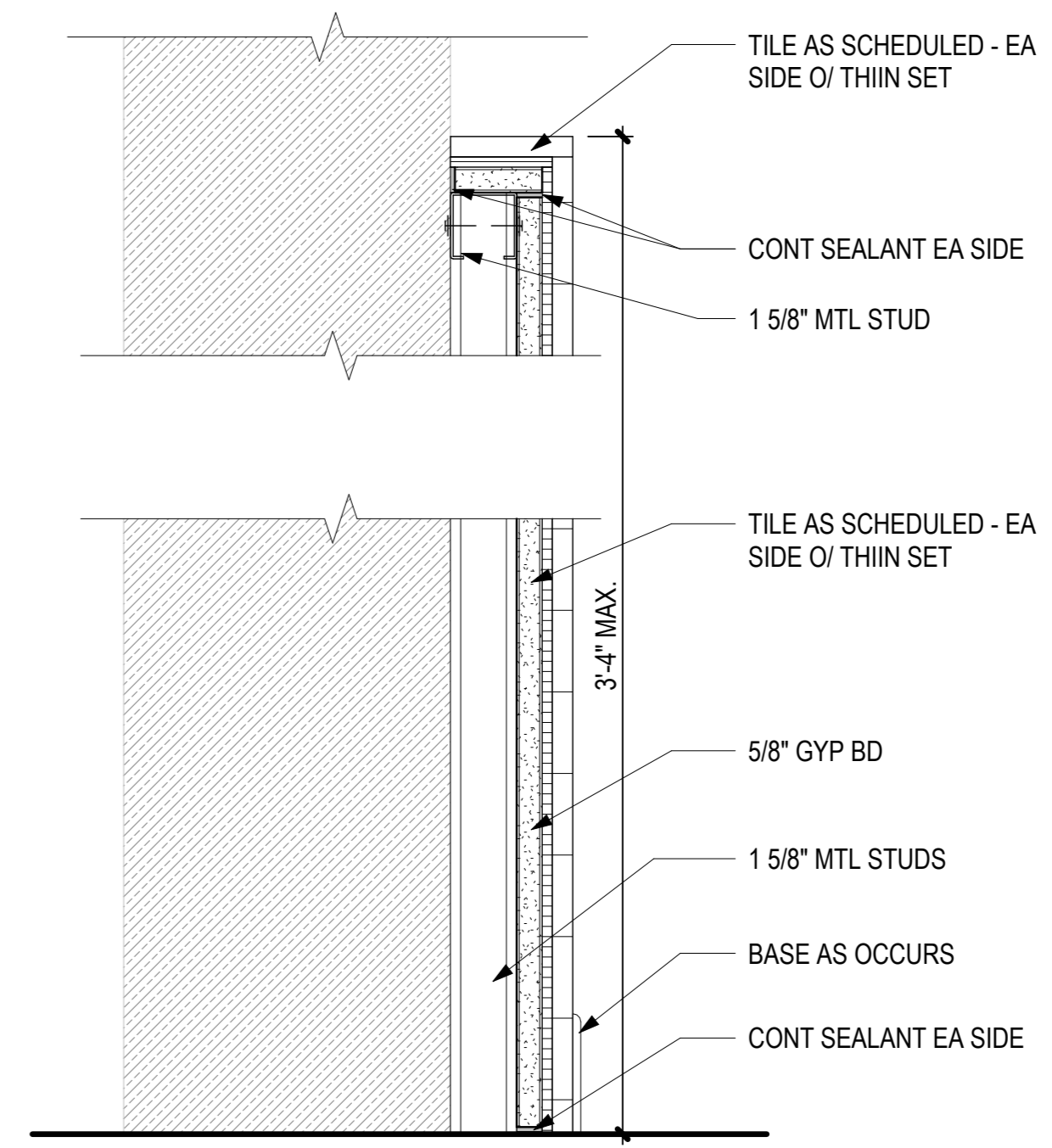
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



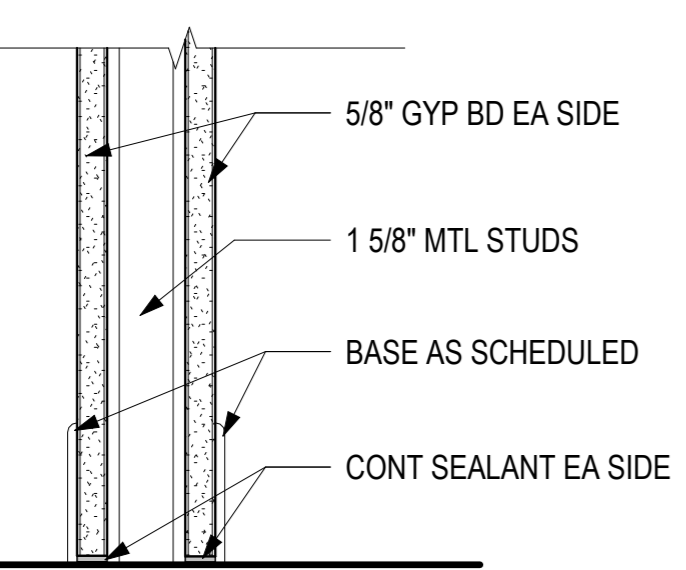
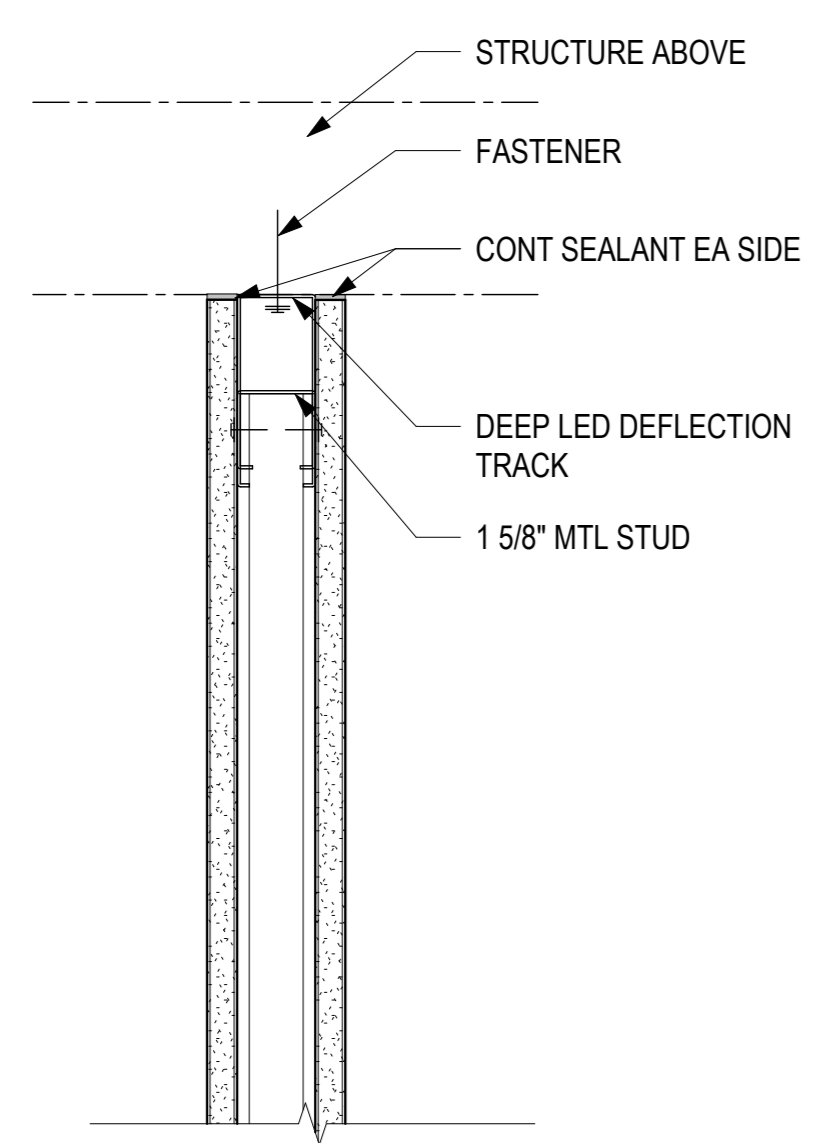
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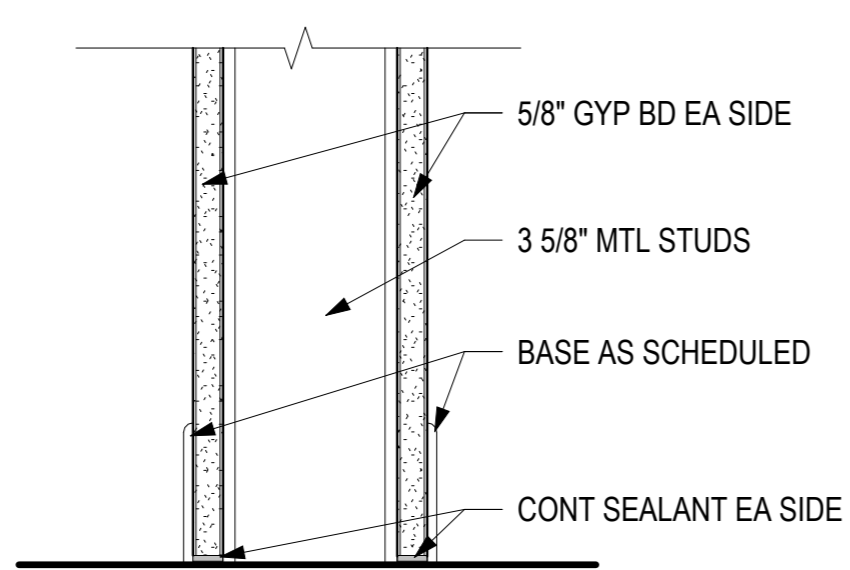
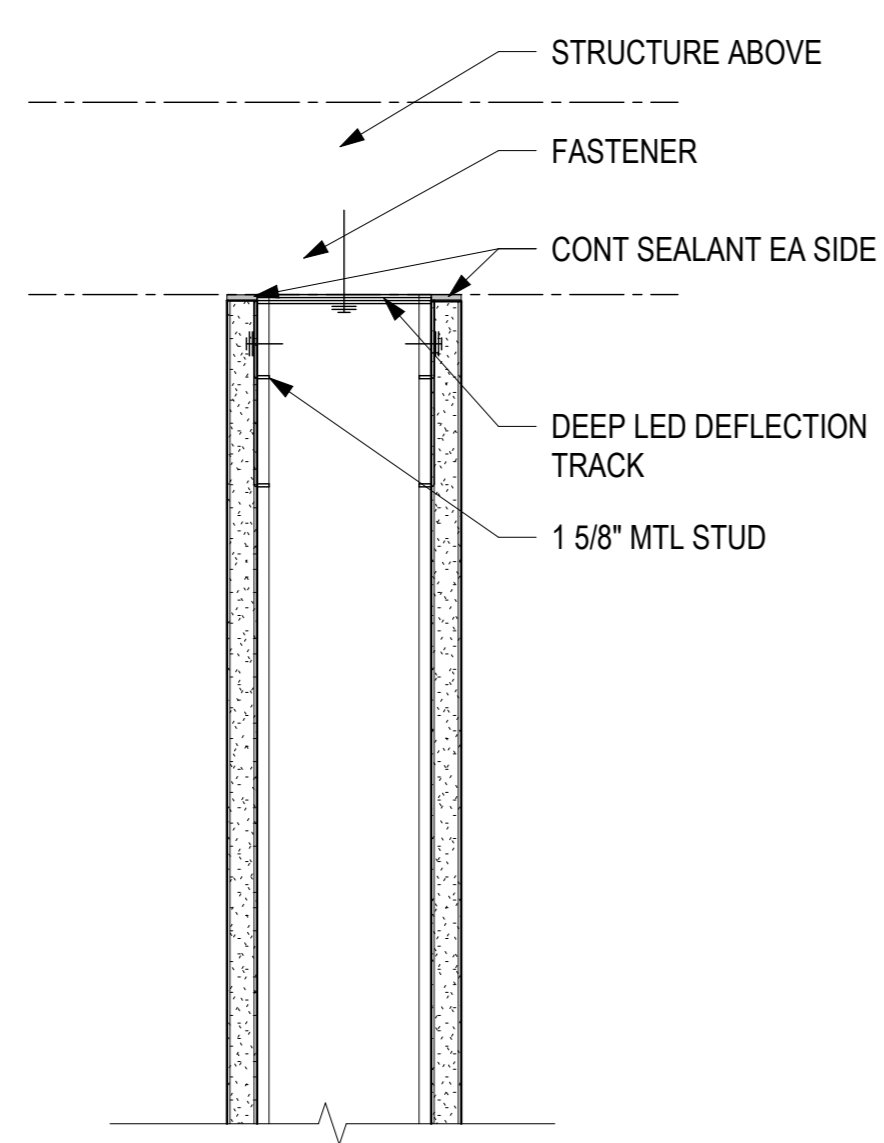
**KEY PLAN / NOTES:**



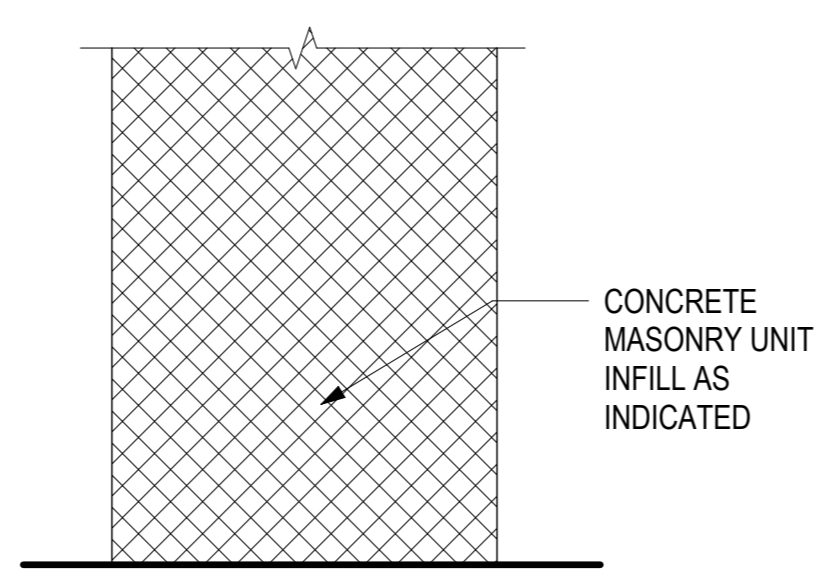
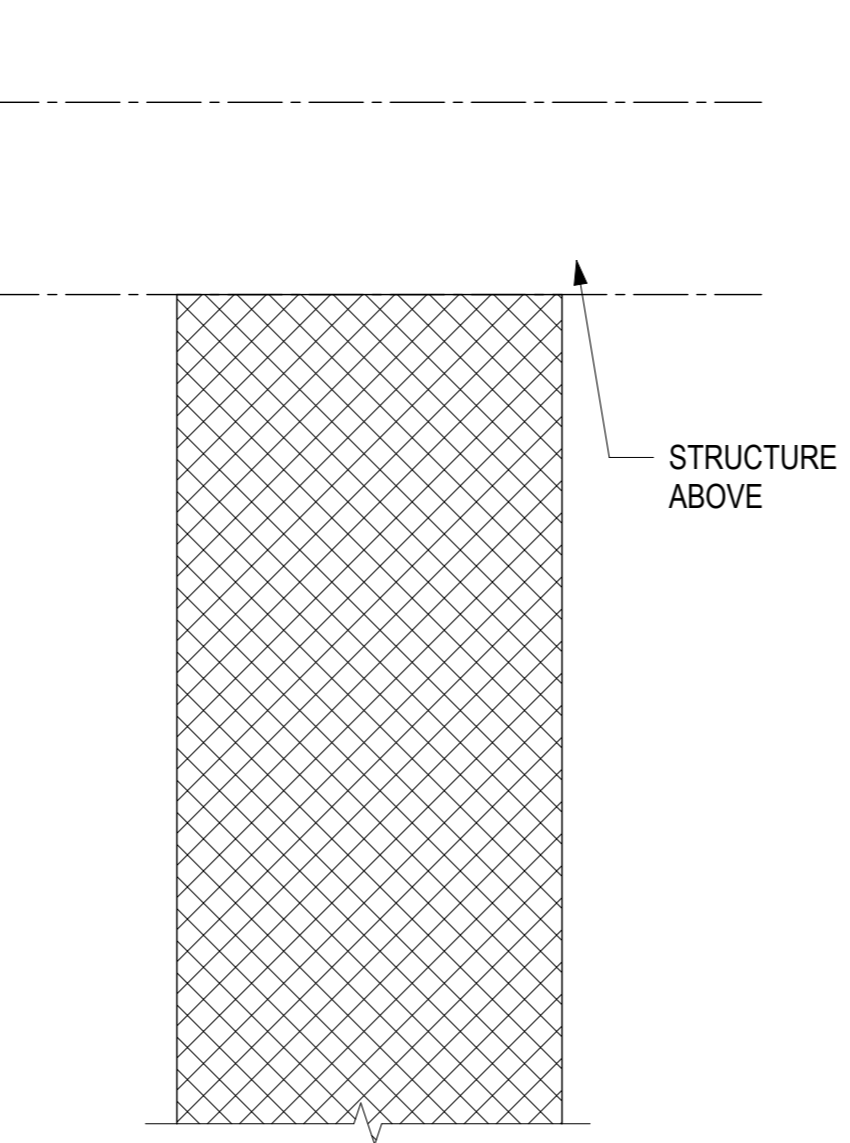
**F-1**  
EXISTING CONCRETE MASONRY UNIT  
1 LAYER 1-5/8" MTL STUD  
1 LAYER 5/8" GYP BD  
1 LAYER WALL TILE W/THIN SET  
1 LAYER TILE BASE



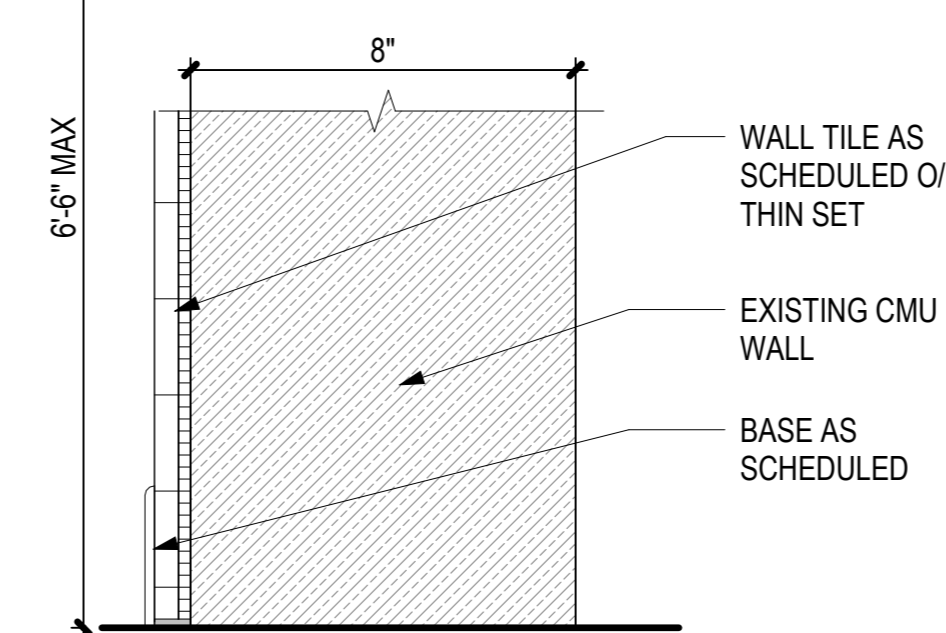
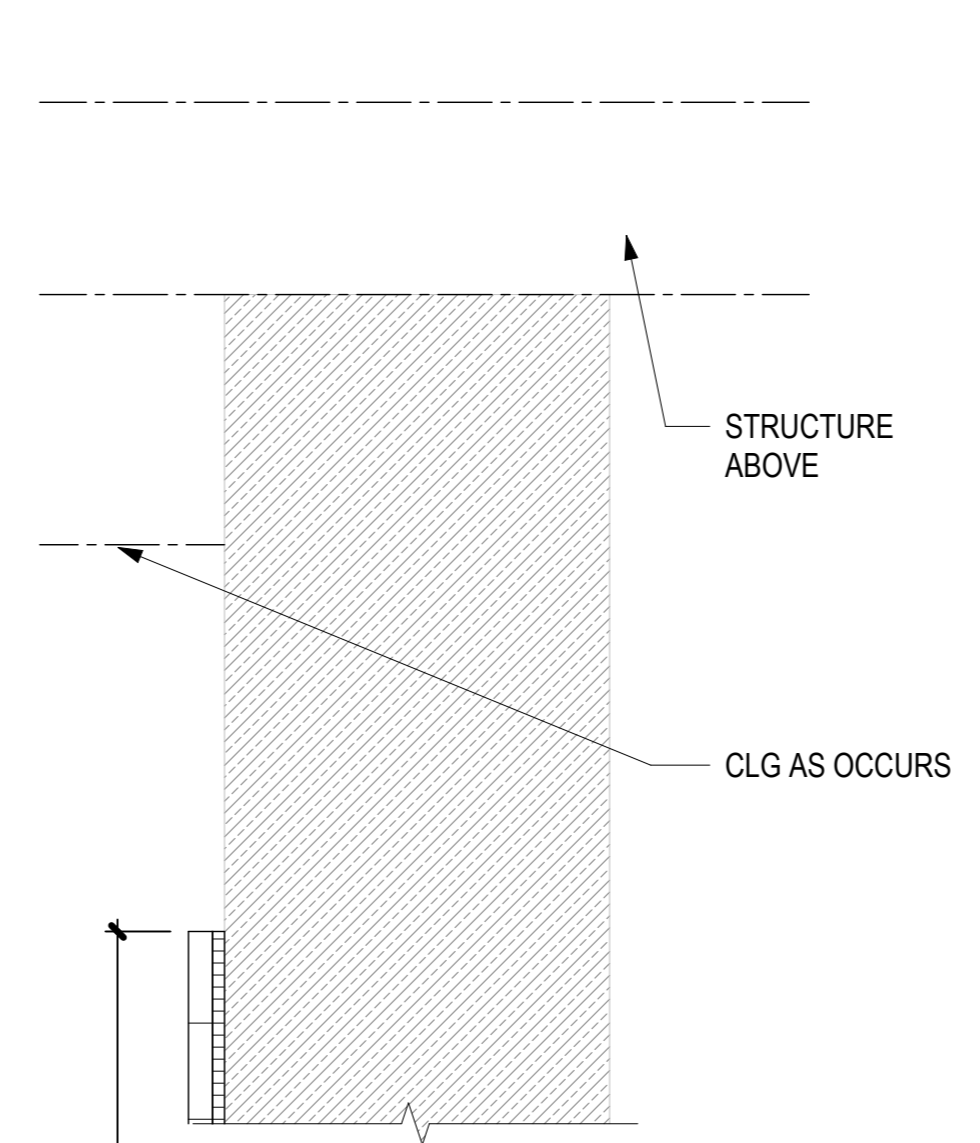
**W-1**  
1 LAYER 5/8" GYP BD  
1 LAYER 1 5/8" MTL STUDS  
1 LAYER 5/8" GYP BD



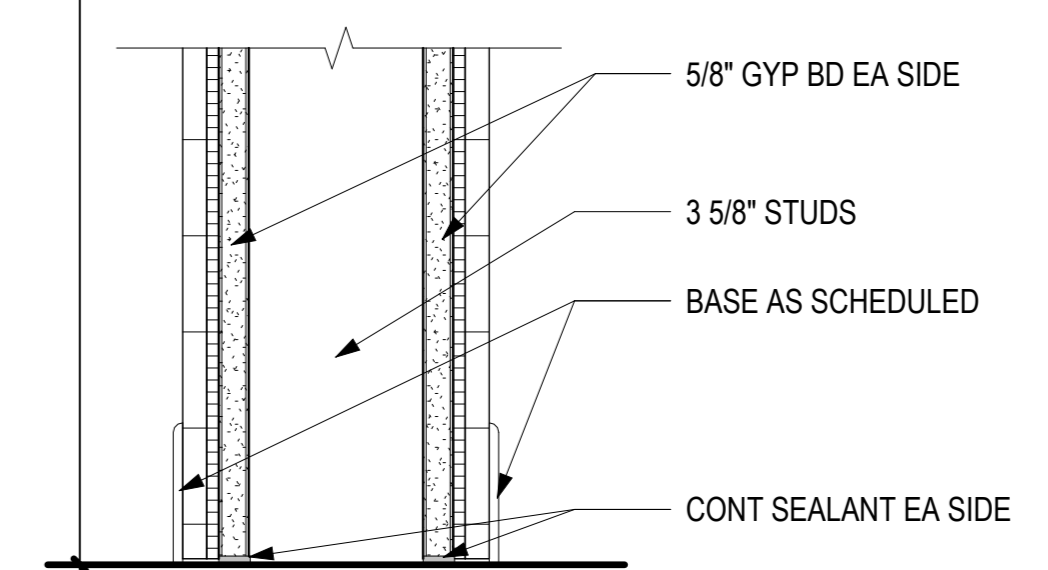
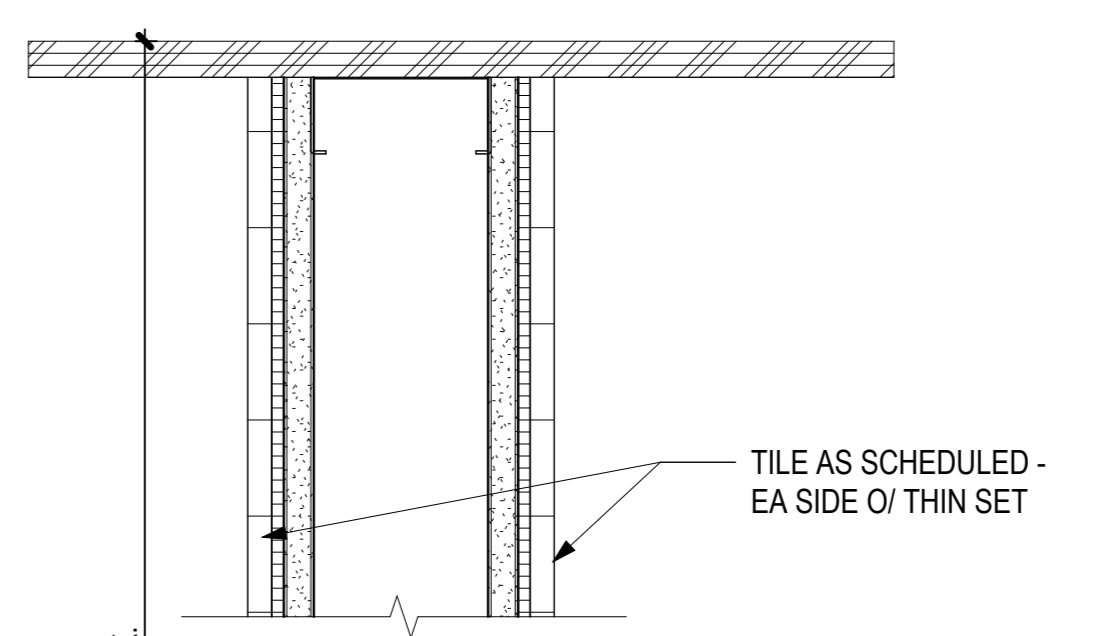
**W-2**  
1 LAYER 5/8" GYP BD  
1 LAYER 3 5/8" MTL STUDS  
1 LAYER 5/8" GYP BD



**W-3**  
1 LAYER CONCRETE MASONRY UNIT



**T-1**  
1 LAYER TILE BASE  
1 LAYER WALL TILE W/ THIN SET  
EXIST CONCRETE MASONRY UNIT



**P-1**  
1 LAYER TILE BASE  
1 LAYER WALL TILE W/ THIN SET  
1 LAYER 5/8" GYP BD  
1 LAYER 3 5/8" MTL STUDS  
1 LAYER 5/8" GYP BD  
1 LAYER WALL TILE W/ THIN SET  
1 LAYER TILE BASE

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
MAY 2024  
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SHEET TITLE:

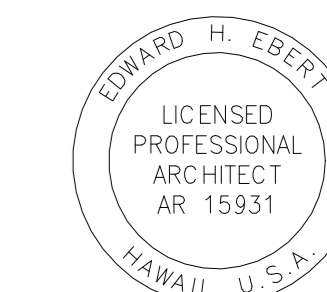
**PARTITION TYPES**

DATE :	DWG. NO.
01 MAY 2024	<b>A-401</b>
SHEET :	
16 OF 57 SHEETS	





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



EDWARD H. EBERT  
LICENSED PROFESSIONAL ARCHITECT  
AR 15931  
HAWAII, U.S.A.  
04-30-2026  
License Expiration Date  
This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

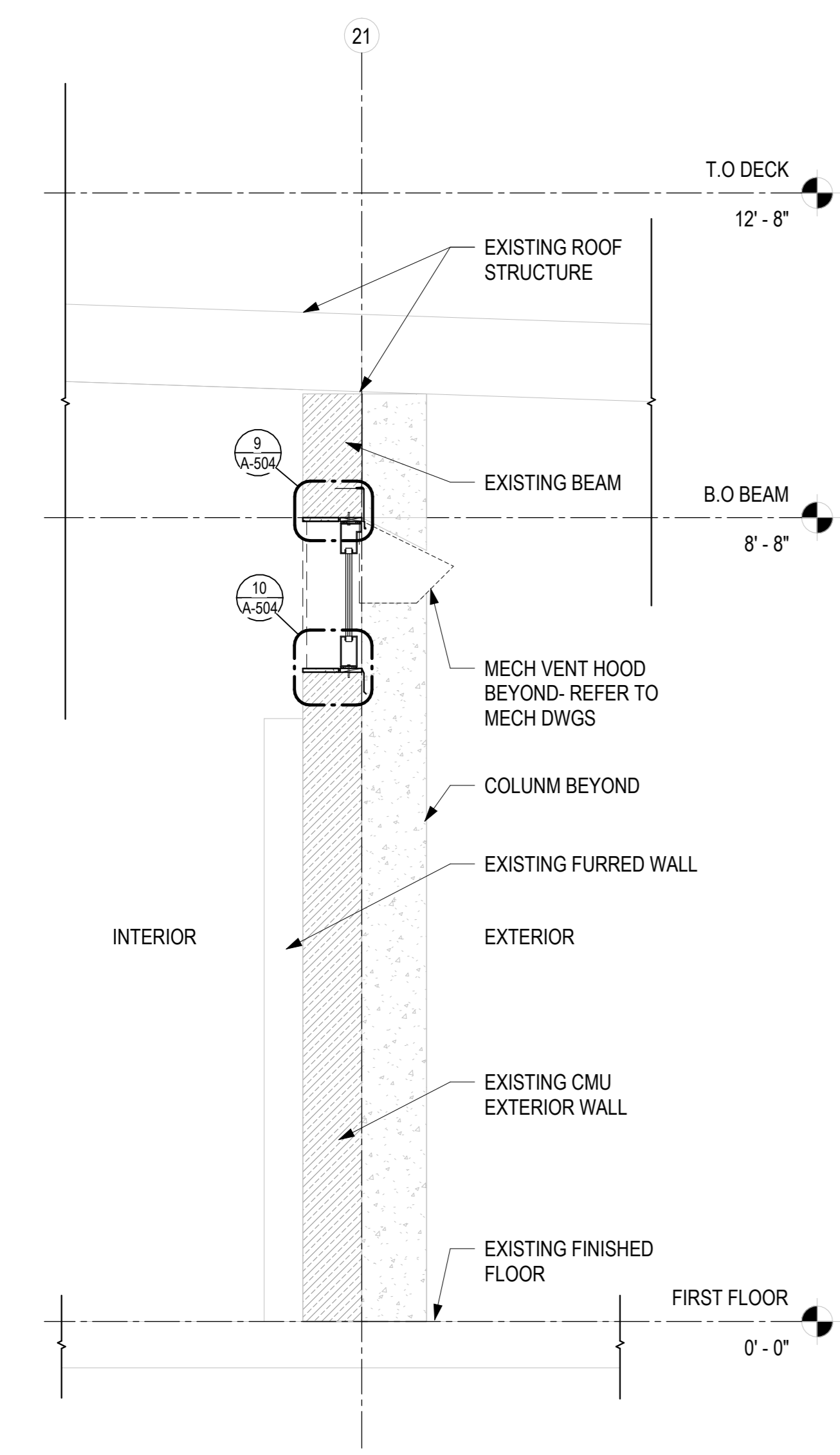
**PROJECT NO.:**

**CO4420-33**

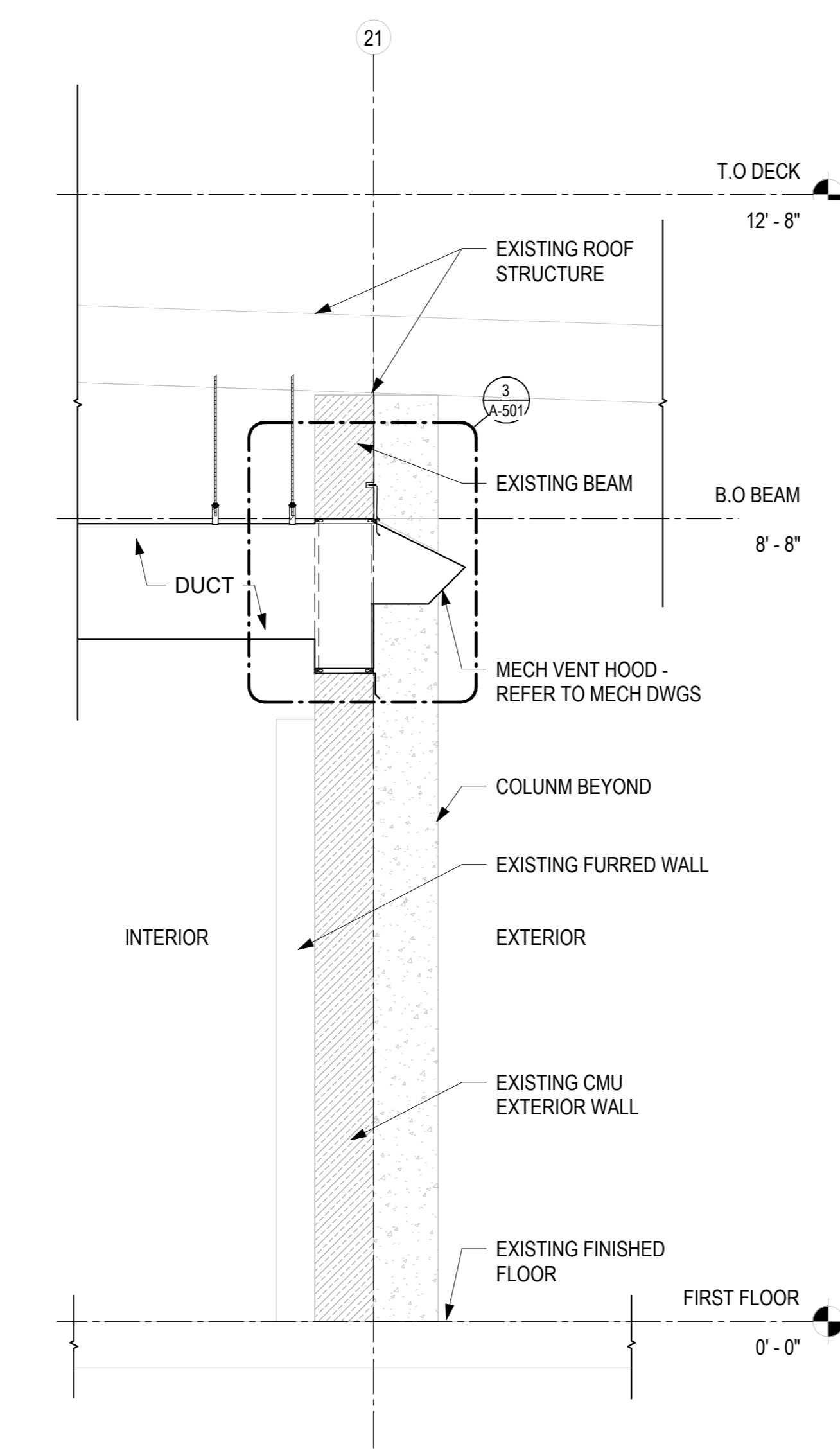
**SHEET TITLE:**

**WALL SECTIONS**

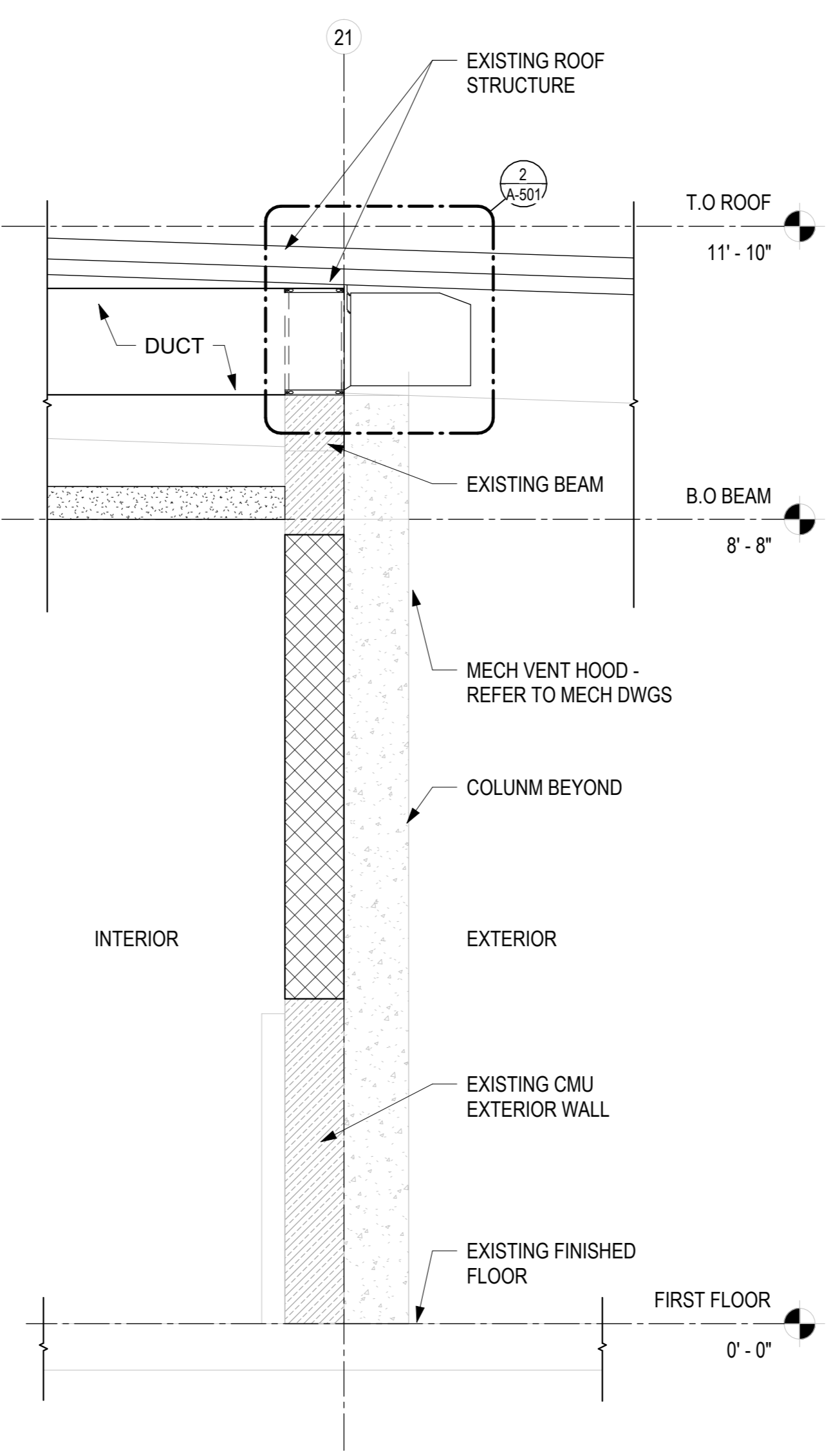
DATE :	DWG. NO.
01 MAY 2024	<b>A-402</b>
SHEET :	
17 OF 57 SHEETS	



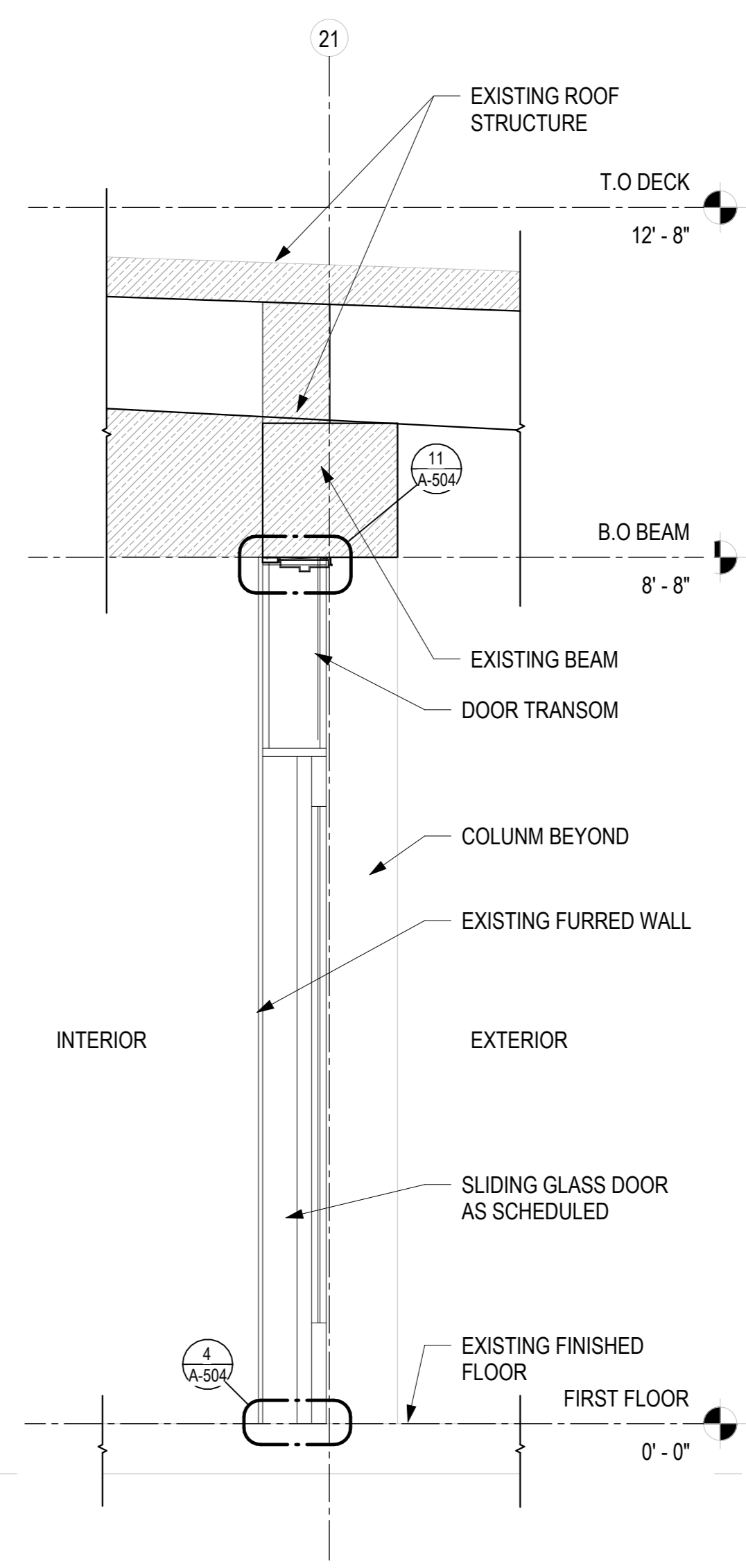
1 WALL SECTION - RESTROOM WINDOW  
A-402 3/4" = 1'-0"  
0" 1' 2' 4'



2 WALL SECTION - RESTROOM MECH HOOD  
A-402 3/4" = 1'-0"  
0" 1' 2' 4'



3 WALL SECTION - KITCHEN MECH HOOD  
A-402 3/4" = 1'-0"  
0" 1' 2' 4'



4 WALL SECTION - KITCHEN DOOR  
A-402 3/4" = 1'-0"  
0" 1' 2' 4'





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CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

PROJECT TITLE :

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KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

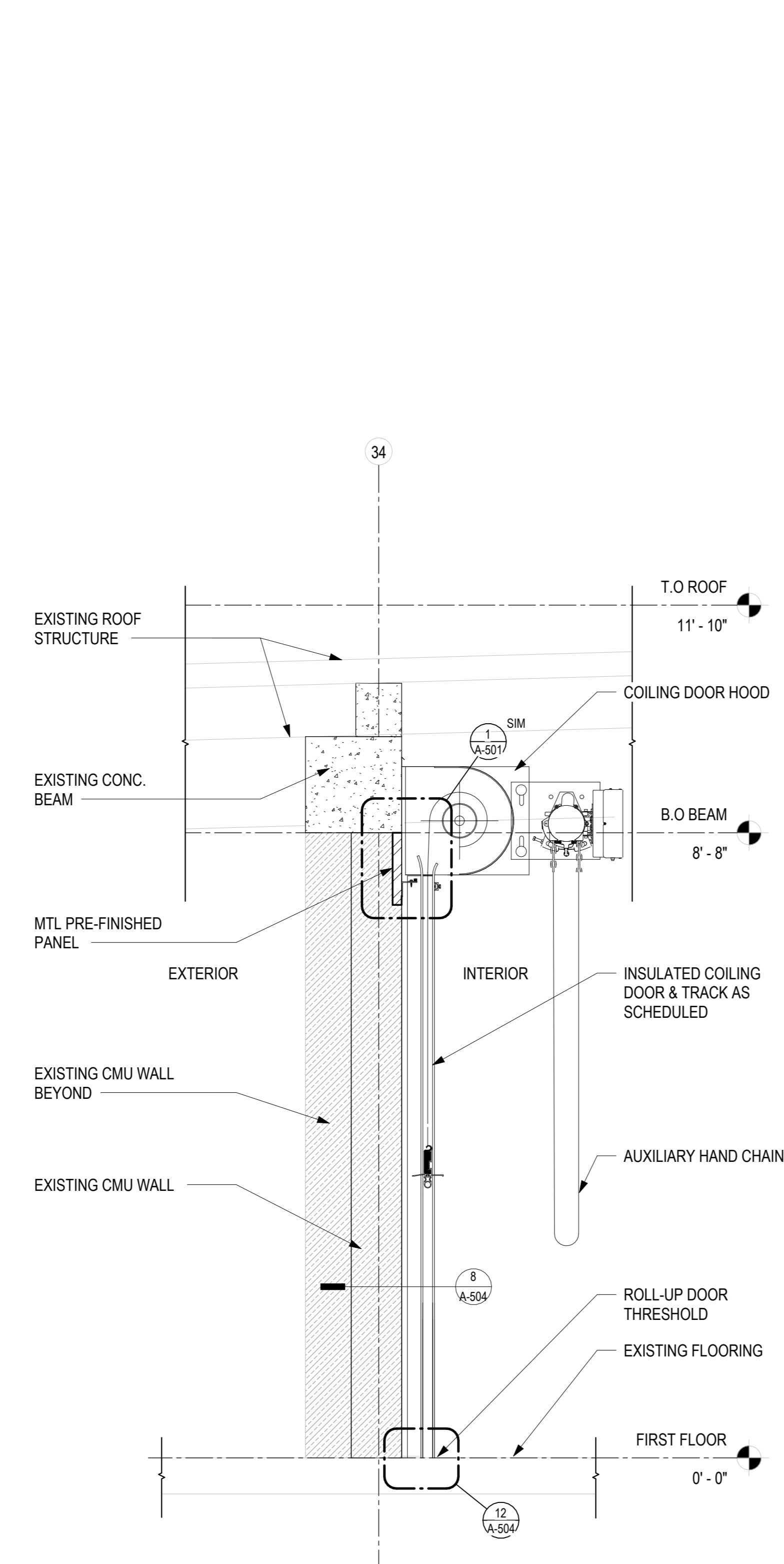
PROJECT NO.:

CO4420-33

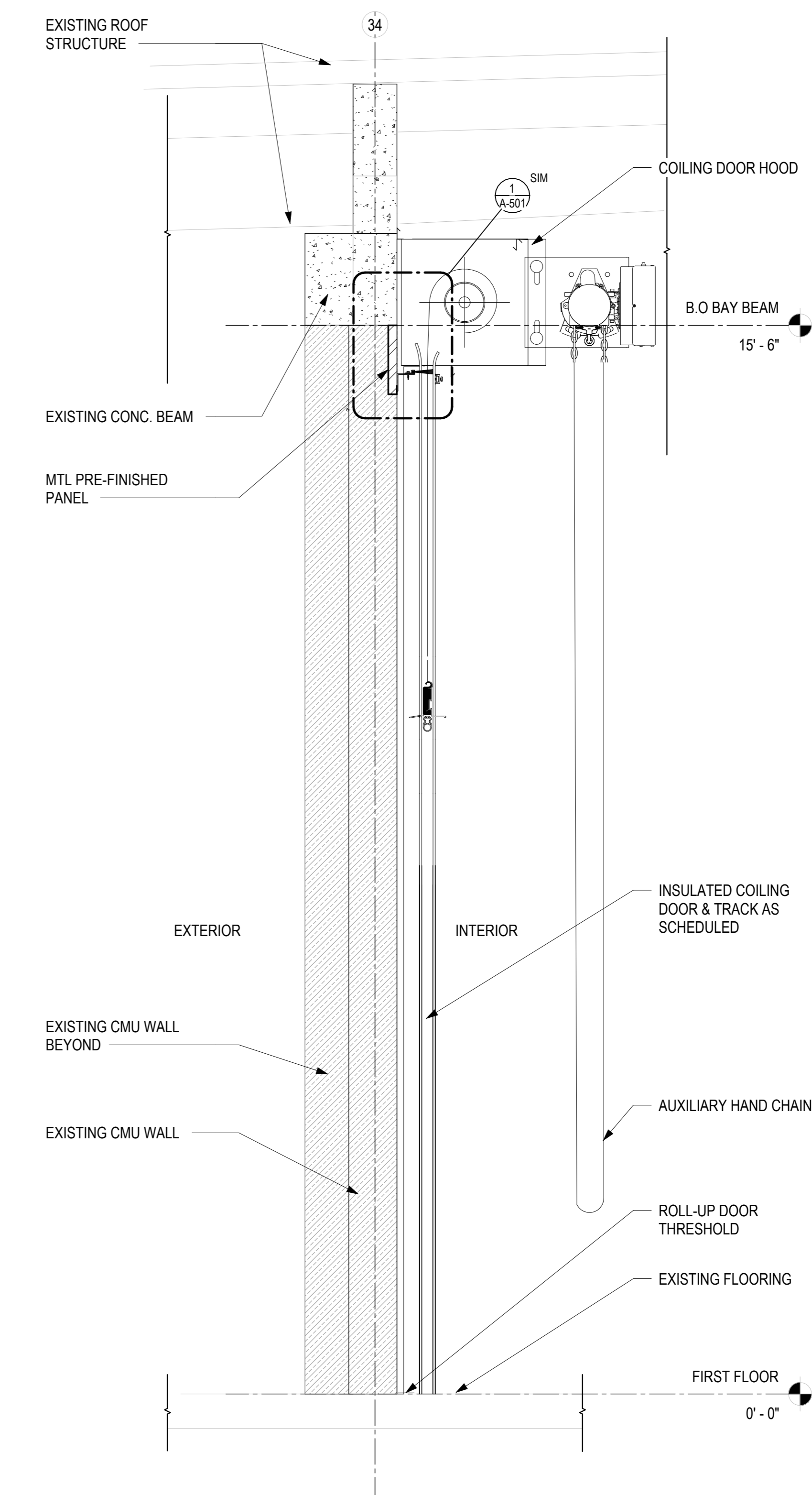
SHEET TITLE:

WALL SECTIONS

DATE :	DWG. NO.
01 MAY 2024	A-403
SHEET :	
18 OF 57 SHEETS	

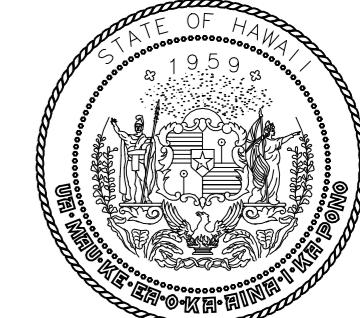


1 WALL SECTION - 8'-8" ROLL-UP DOOR  
A-403 3/4" = 1'-0" 0" 1' 2' 4'



2 WALL SECTION - 15'-6" ROLL-UP DOOR  
A-403 3/4" = 1'-0" 0" 1' 2' 4'





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**CONSTRUCTION DOCUMENTS**

MAY 2024  
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KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

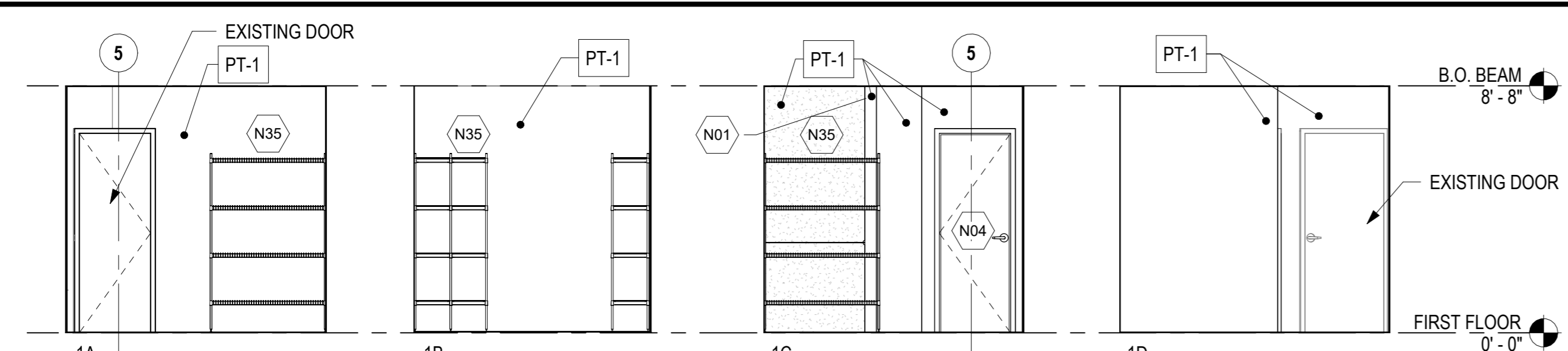
PROJECT NO.:

**CO4420-33**

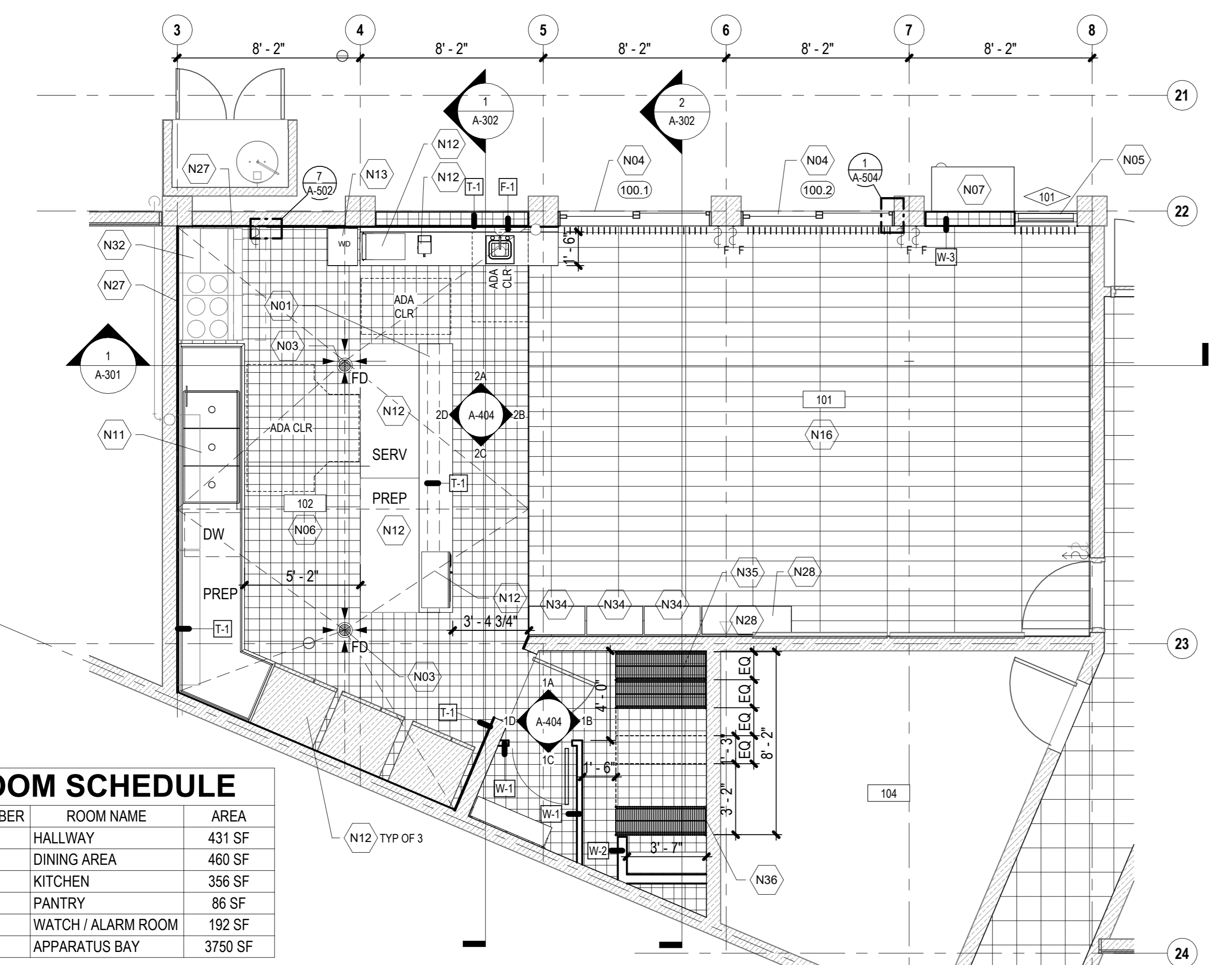
SHEET TITLE:

**ENLARGED PLAN & INTERIOR ELEVATIONS - KITCHEN**

DATE :	DWG. NO.
01 MAY 2024	<b>A-404</b>
SHEET :	
19 OF 57 SHEETS	



**INTERIOR ELEVATIONS - PANTRY**

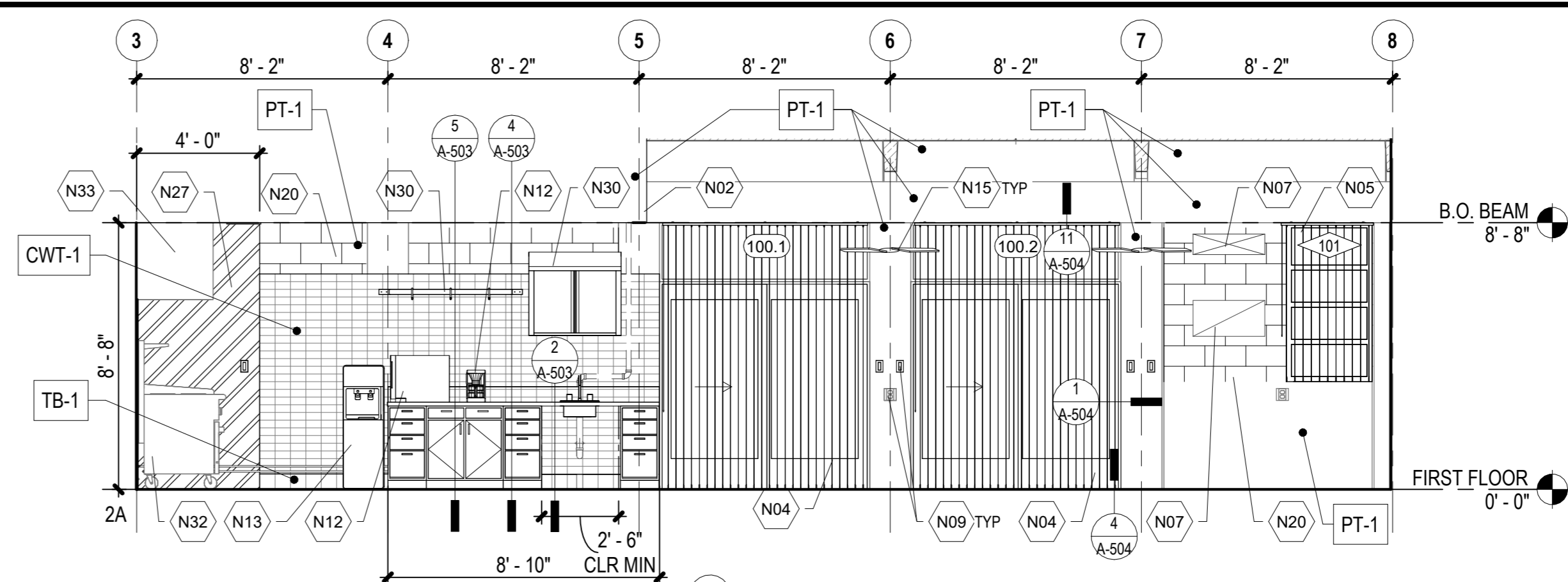


**ROOM SCHEDULE**

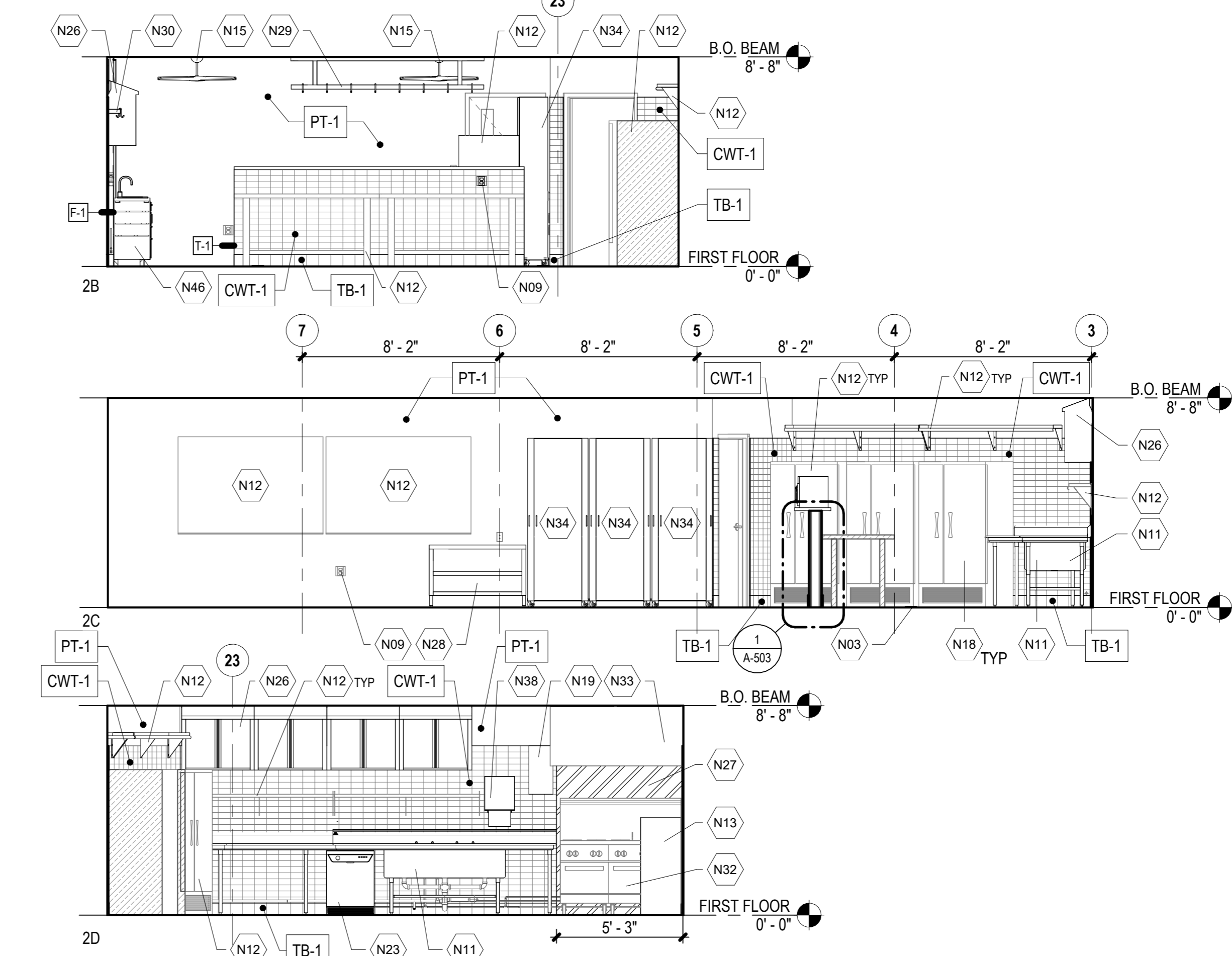
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
108	APPARATUS BAY	3750 SF



**ENLARGED FLOOR PLAN- KITCHEN**



**INTERIOR ELEVATIONS - KITCHEN**



**ENLARGED PLAN NOTES:**

- REFER TO A-002 FOR ACCESSIBILITY DETAILS AND MOUNTING HEIGHT.
- IN STANDARD RESTROOM STALLS, CENTER TOILET AND/OR URINAL WITHIN TOILET PARTITIONS, U.O.N.
- REFER TO FINISH PLAN FOR FLOOR FINISHES.
- REFER TO A-601 FOR ROOM FINISH SCHEDULE.
- REFER TO SHEET A-001 FOR ABBREVIATIONS

**LEGEND**

EXIST WALL TO REMAIN	DOOR TAG - REFER TO DOOR SCHED A-602	EXHAUST - REFER TO MECH DWGS
NEW PARTITION	<b>ROOM NAME</b> RM NO	SUPPLY - REFER TO MECH DWGS
PARTITION TYP TAG	ROOM TAG W/ NUMBER	RETURN - REFER TO MECH DWGS
INDUSTRIAL EPOXY FINISH	+x'-xx"  FLOOR ELEVATION (RELATIVE TO LEVEL)	13" x 13" QUARRY TILE
2' x 4' RECESSED LIGHTS	CEILING ACCESS PANEL	18" x 18" QUARRY TILE

**KEYNOTES**

N01	PROVIDE FRAMED PARTITION AND GYP BD - REFER TO PARTITION TYPES
N02	PROVIDE SUSPENDED GYP BD CEILING O/ MTL FRAMING - COORDINATE INSTALLATION OF CEILING-MOUNTED FIXTURES AND EQUIPMENT
N03	COORDINATE FLOOR DRAIN - PROVIDE SLOPED INSTALLATION AND DRAINAGE AS INDICATED - REFER TO PLBG DWGS
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N05	WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
N06	TILE FLOORING AND RESILIENT BASE PER TO FINISH SCHED - PROVIDE SLOPED INSTALLATION AND DRAINAGE AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N09	COORDINATE ELEC EQPT AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N11	COORDINATE SINK AND FAUCET AND ASSOCIATED PIPING - REFER TO PLBG DWGS
N12	REINSTALL EXIST EQUIPMENT AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N13	REINSTALL WATER DISPENSER AND CONNECT TO WATER SYSTEM - REFER TO PLBG DWGS
N15	CEILING FAN AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS AND EQUIPMENT SCHEDULE
N16	RESILIENT FLOORING AND RESILIENT BASE PER FINISH SCHED
N18	REINSTALL FURNITURE AS INDICATED BY USER - COORDINATE
N19	FIRE SUPPRESSION SYSTEM - REFER TO MECH DWGS

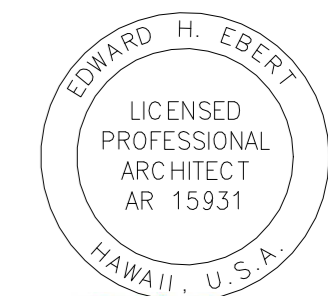
**KEYNOTES**

N20	CMU INFILL EXISTING OPENING - PAINT AS SCHEDULED
N23	PROVIDE UNDERCOUNTER DISHWASHER AND COORDINATE ALL ASSOCIATED PIPING, WIRING, AND CONDUIT - REFER TO MECH AND ELEC DWGS
N26	PROVIDE WALL MOUNTED STAINLESS STEEL CABINET AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N27	PRE-FINISHED MTL WALL PANEL AS INDICATED AND SPECIFIED - REFER TO INTR ELEV AND EQUIPMENT SCHEDULE
N28	PROVIDE STAINLESS STEEL DISH CABINET AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N29	PROVIDE CEILING MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N30	PROVIDE WALL MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N32	OVEN, RANGE, AND ALL ASSOCIATED WIRING, PIPING, AND CONDUIT - REFER TO MECH DWGS
N33	EXISTING RANGE HOOD - REFER TO MECH DWGS
N34	PROVIDE STAINLESS STEEL MOBILE PANTRY CABINET - REFER TO EQUIPMENT SCHEDULE
N35	SLIDING STORAGE SHELVES AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N36	PROVIDE STORAGE SHELVES - REFER TO EQUIPMENT SCHEDULE AND CASEWORK DETAILS
N38	EXISTING PAPER TOWEL DISPENSER TO BE REINSTALLED AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N46	PROVIDE STAINLESS STEEL BASE CABINETS AS INDICATED - REFER TO EQUIPMENT SCHEDULE





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JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

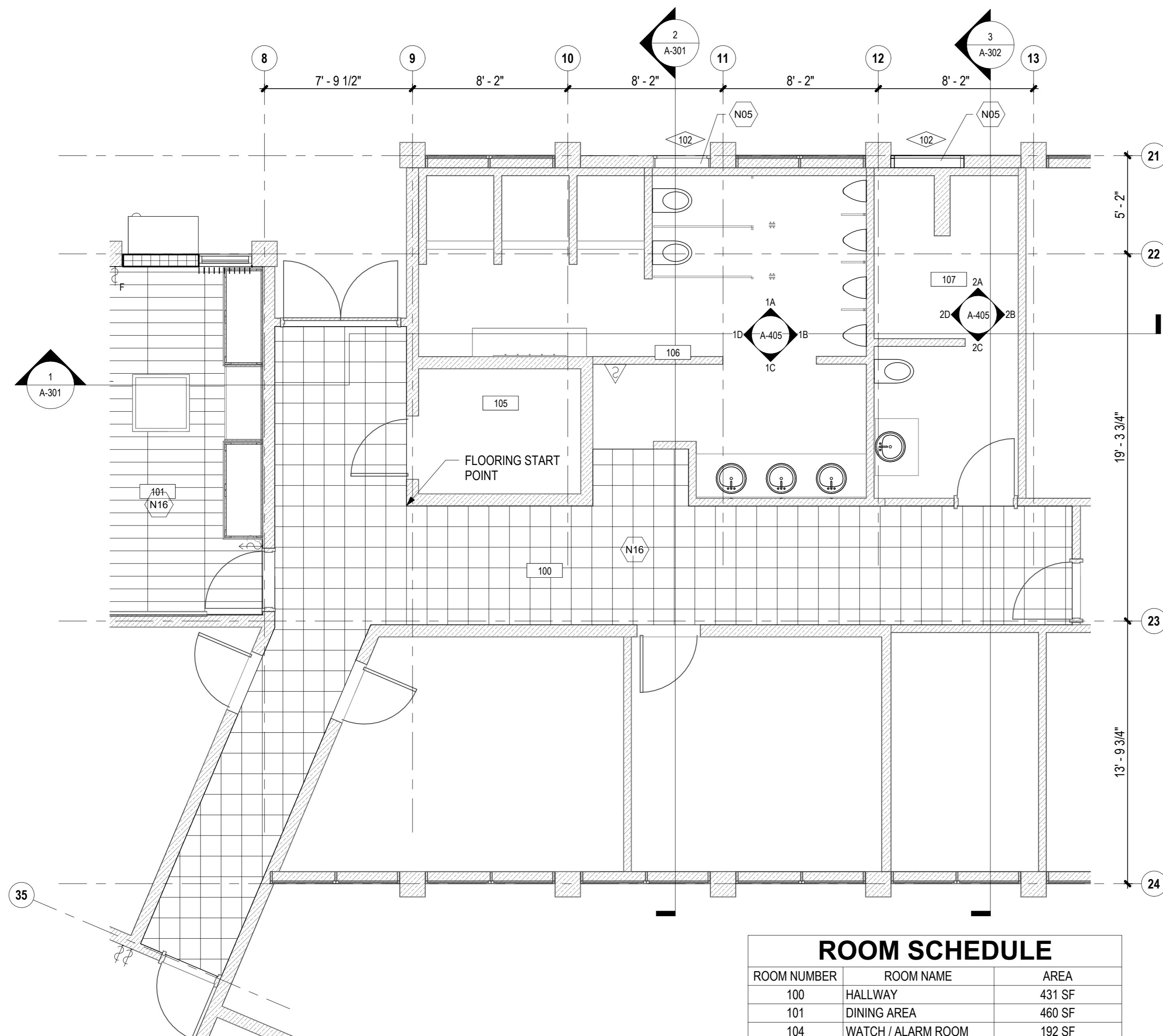
PROJECT NO.:

**CO4420-33**

SHEET TITLE:

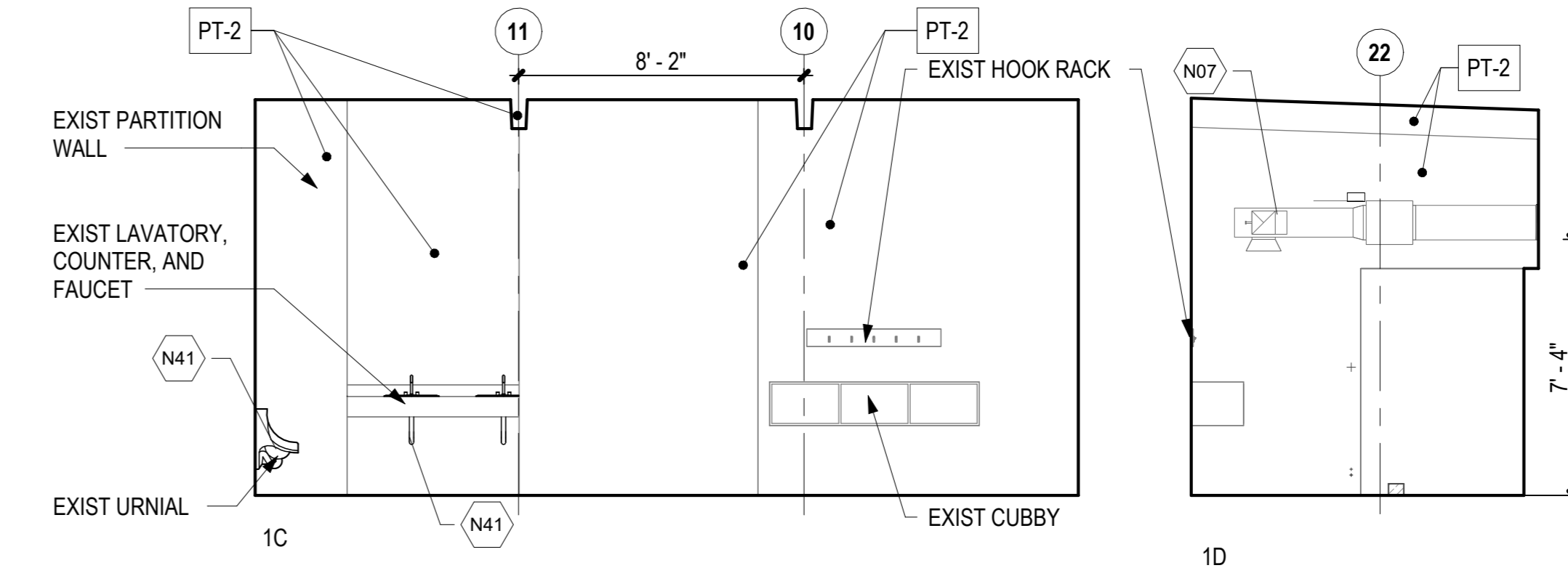
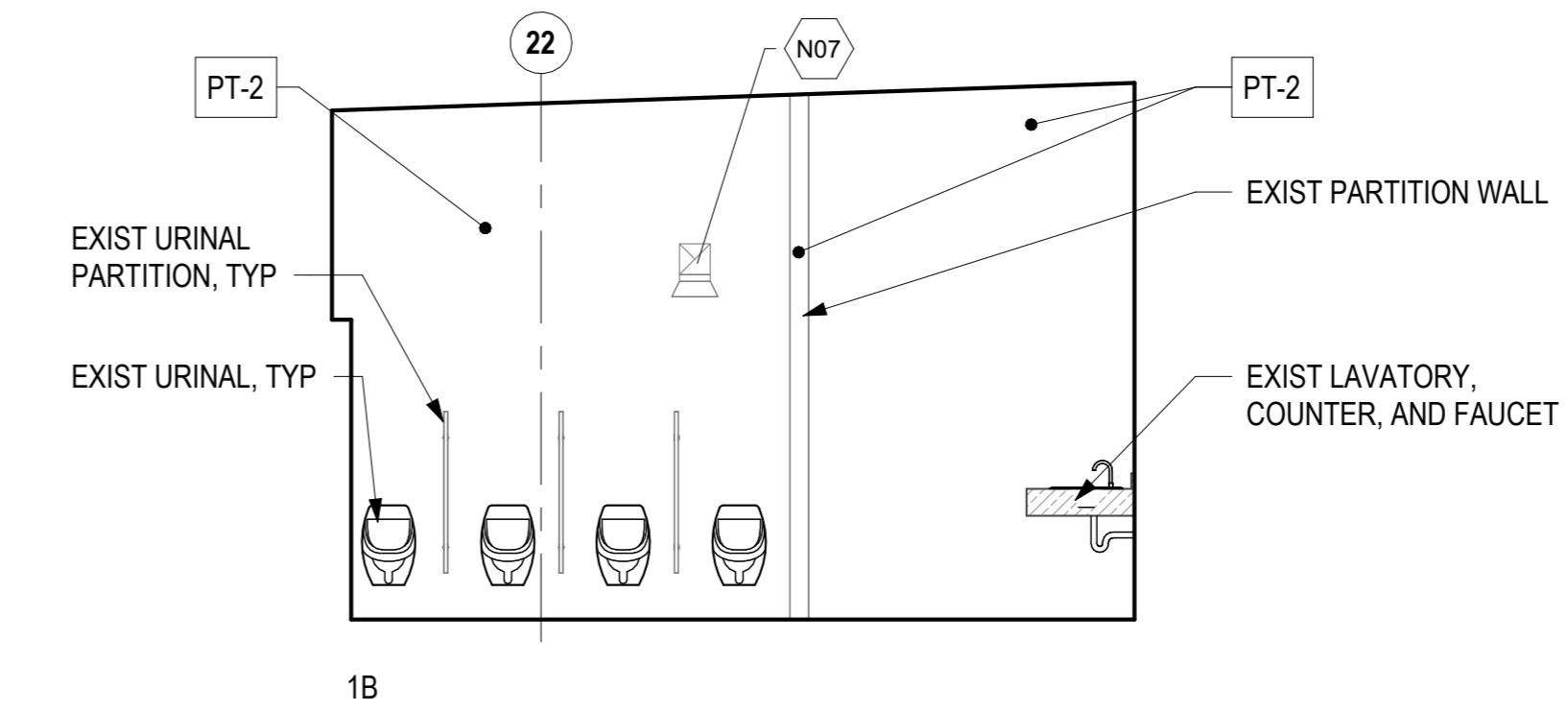
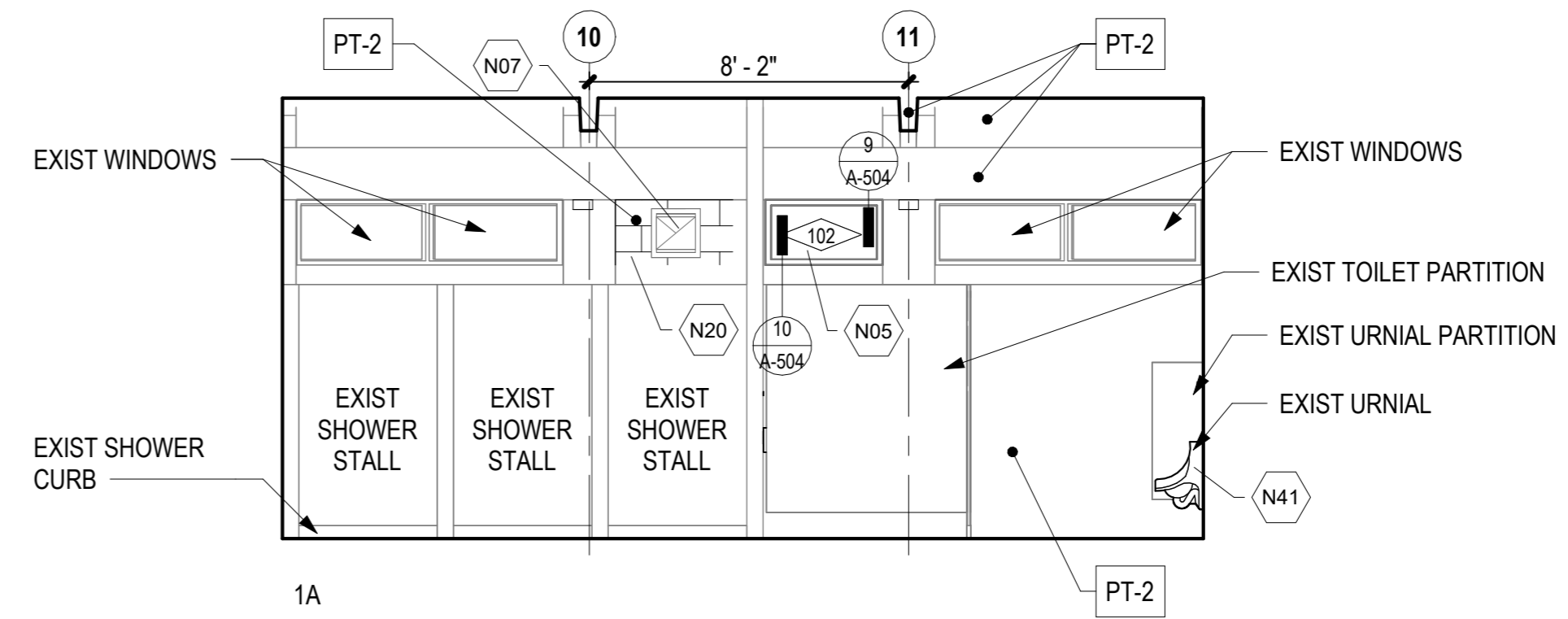
**ENLARGED PLAN & INTERIOR ELEVATIONS - RESTROOM**

DATE :	DWG. NO.
01 MAY 2024	<b>A-405</b>
SHEET :	
20 OF 57 SHEETS	



**ROOM SCHEDULE**

ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF



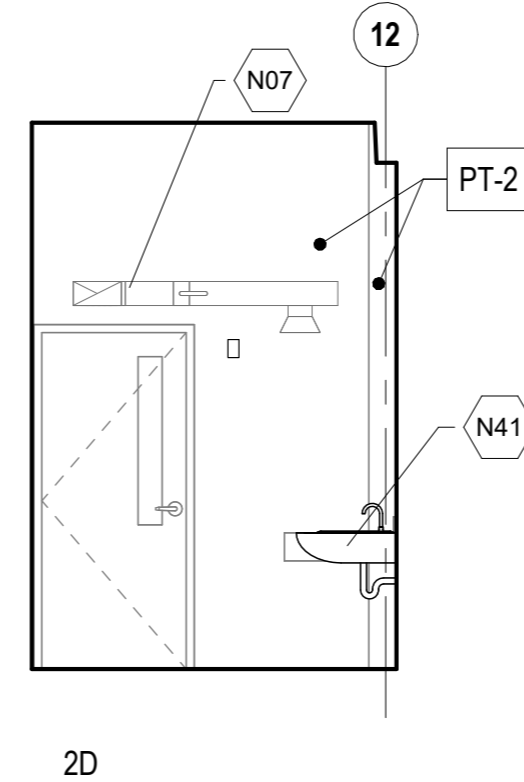
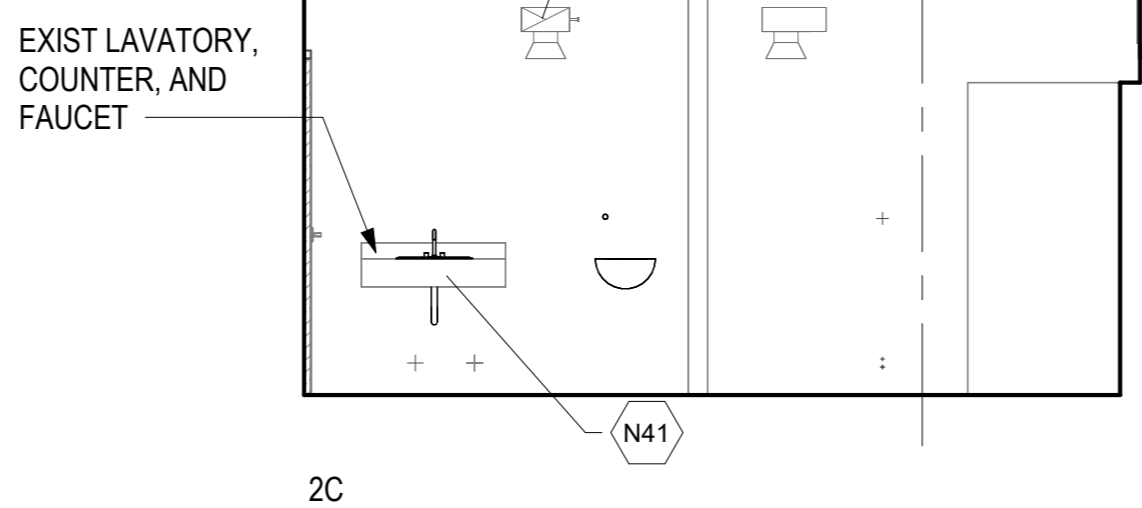
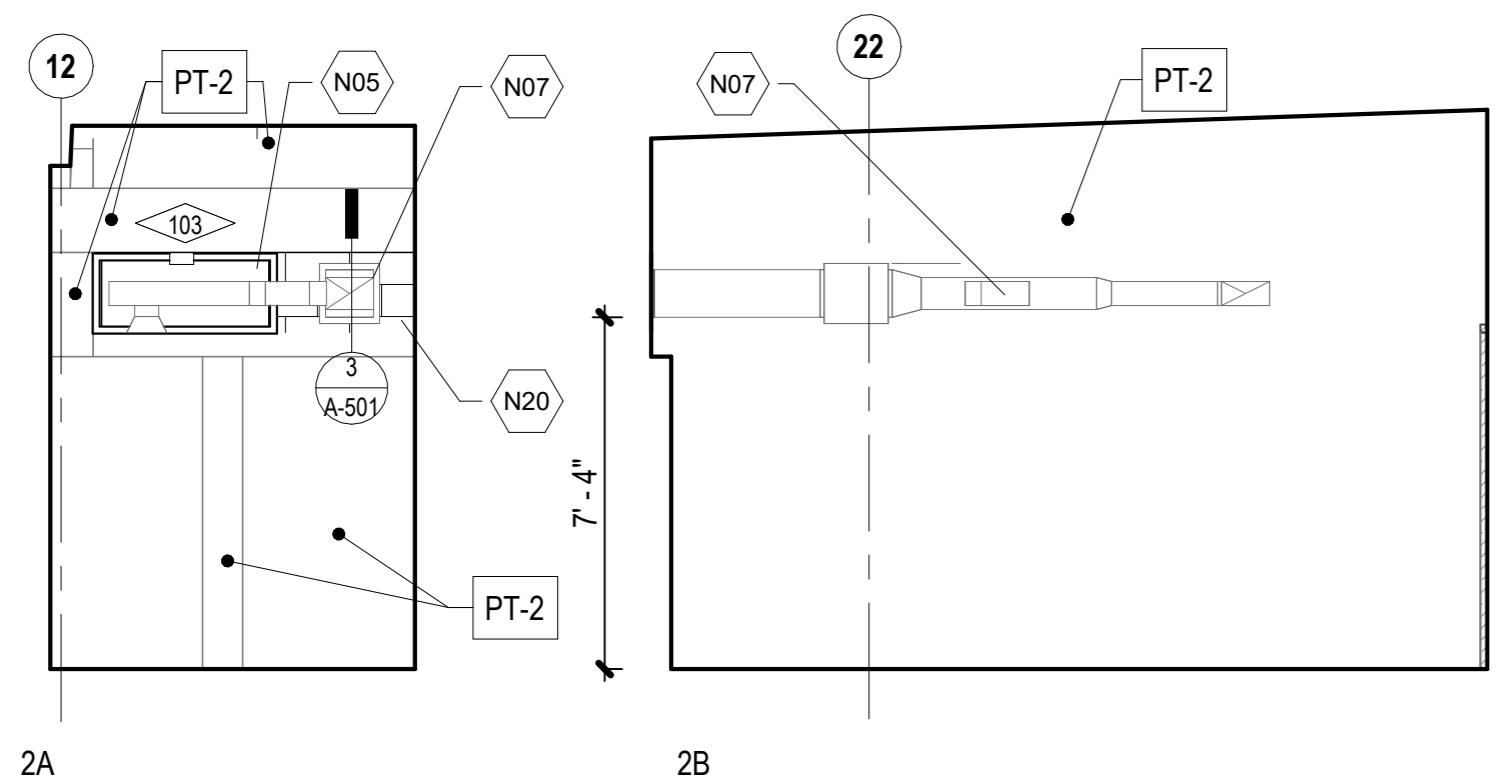
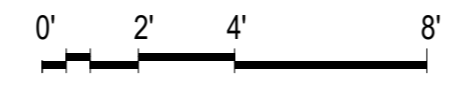
**MEN'S RESTROOM**

**KEYNOTES**

N05	WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N16	RESILIENT FLOORING AND RESILIENT BASE PER FINISH SCHED
N20	CMU INFILL EXISTING OPENING - PAINT AS SCHEDULED
N41	EXISTING PLUMBING FIXT - REFER TO PLBG DWGS

**ENLARGED FLOOR PLAN - HALLWAY & RESTROOMS**

1/4" = 1'-0"

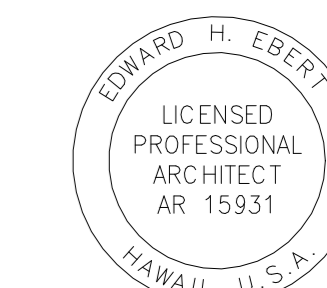


**FAMILY RESTROOM**





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JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

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PROJECT TITLE :

JRF ARFF STATION  
RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

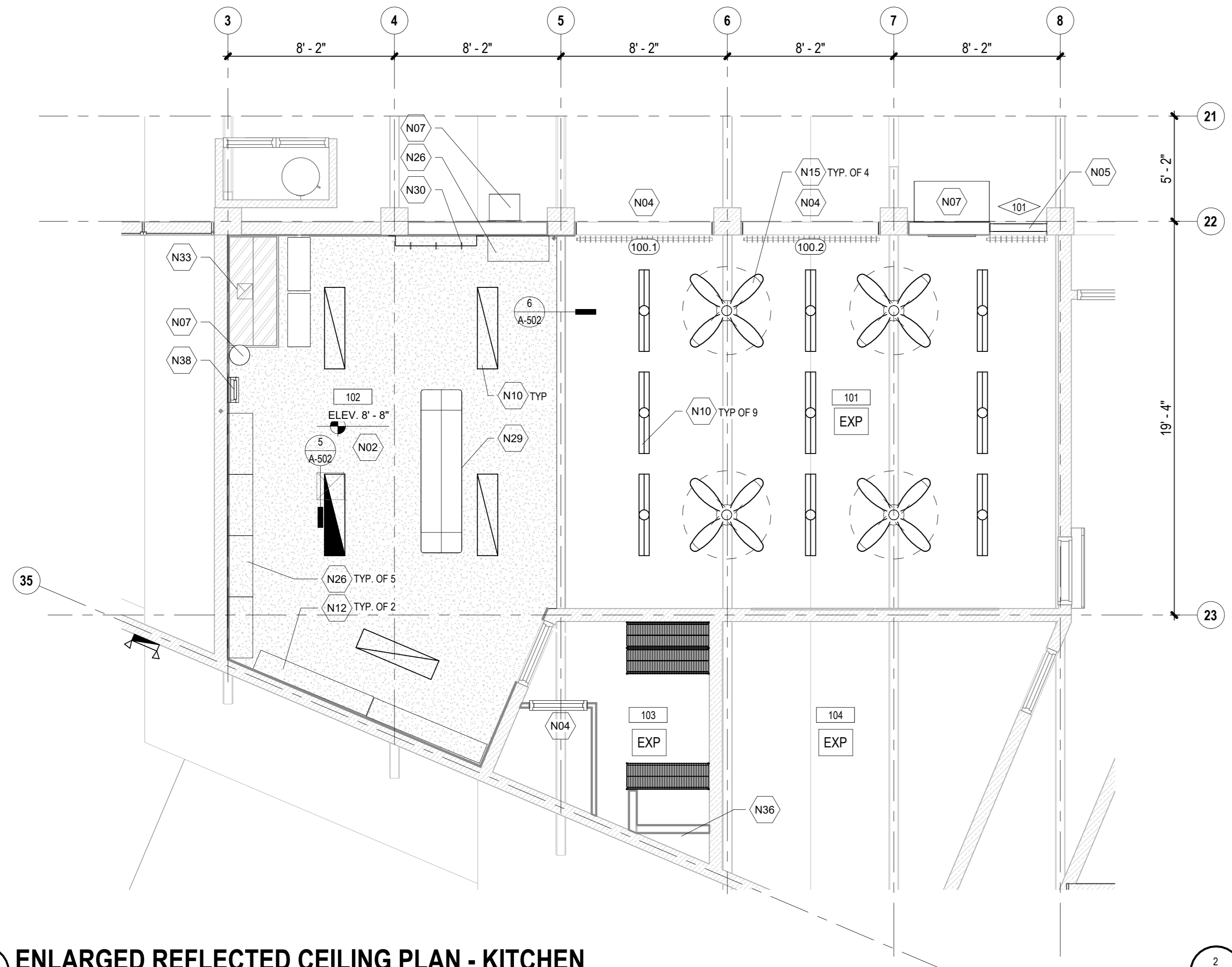
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SHEET TITLE:

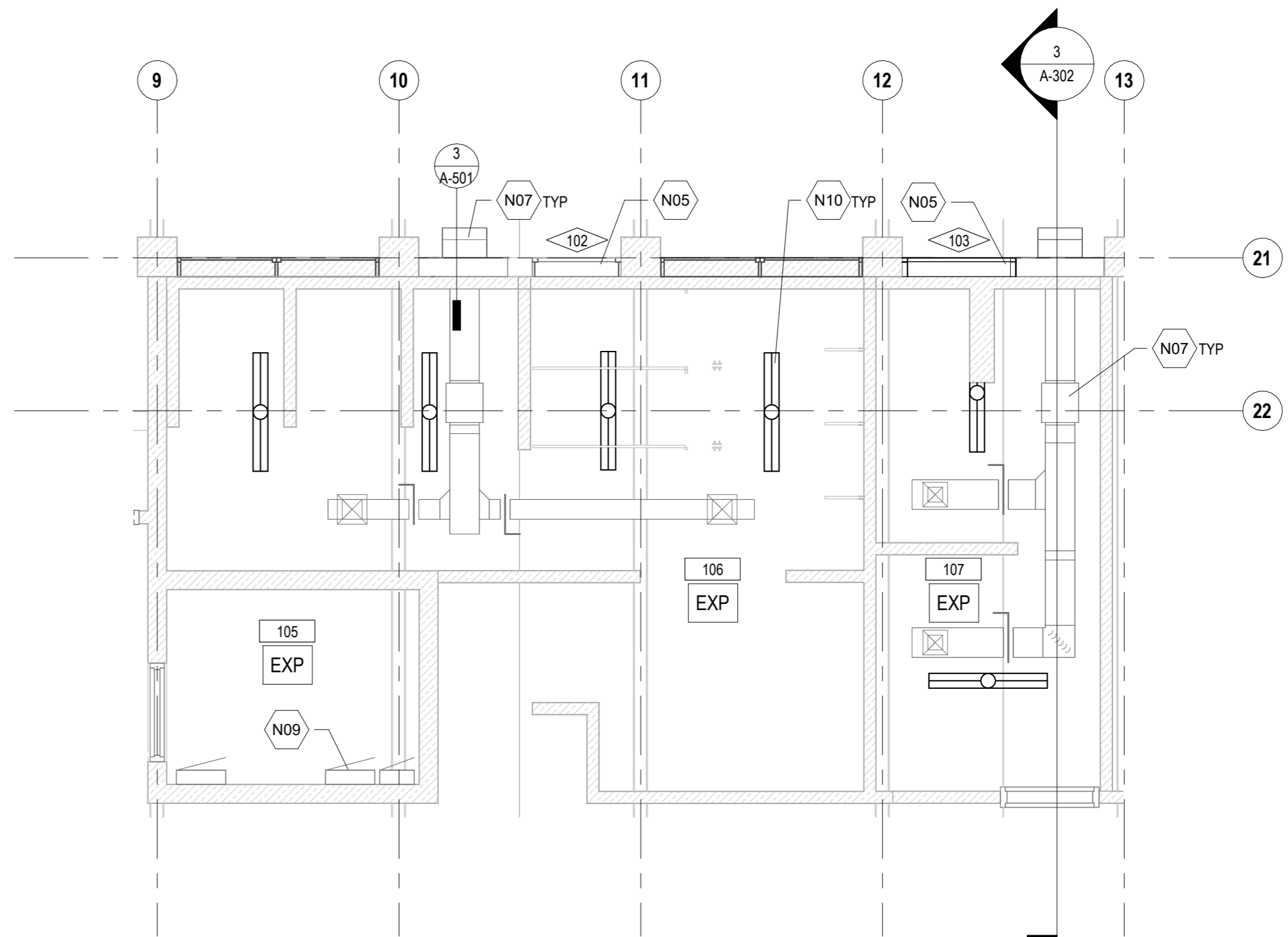
**ENLARGED REFLECTED CEILING PLAN**

DATE :	DWG. NO.
01 MAY 2024	<b>A-406</b>
SHEET :	
21 OF 57 SHEETS	

ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF



1 ENLARGED REFLECTED CEILING PLAN - KITCHEN  
A-406 1/4" = 1'-0"

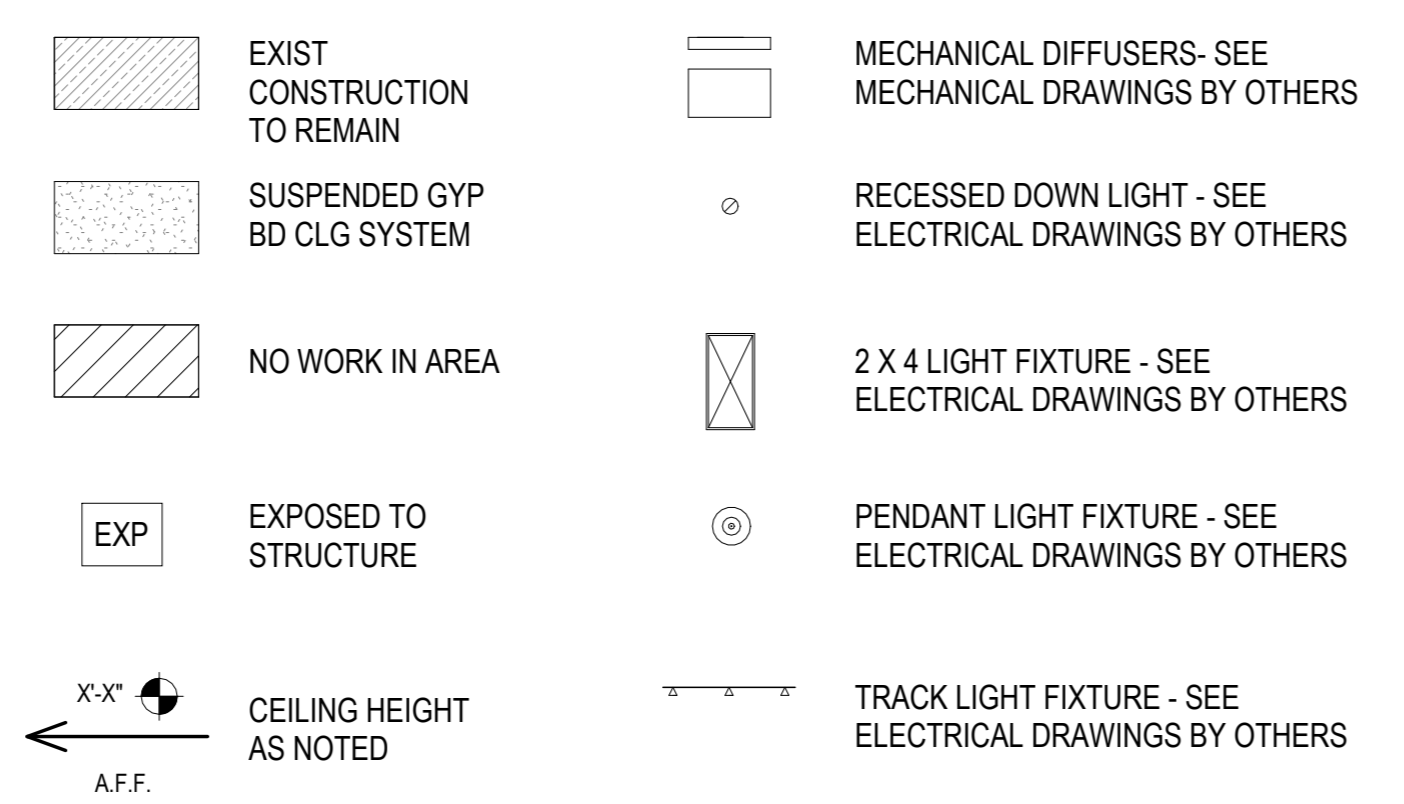


2 ENLARGED REFLECTED CEILING PLAN - RESTROOMS  
A-406 1/4" = 1'-0"

**RCP NOTES:**

- REFER TO ENLARGED PLANS FOR MORE INFORMATION.
- INSTALL PIPING AND CONDUIT TIGHT TO STRUCTURE TO ENSURE SCHEDULED CEILINGS CAN BE INSTALLED AT DESIGN ELEVATION. FULLY COORDINATE BETWEEN CEILING, PLUMBING, MECHANICAL, FIRE, AND ELECTRICAL.
- DIMENSIONING GUIDE: ALL DIMENSIONS ARE TAKEN TO/FROM GRID LINE, FACE OF CONCRETE AND MASONRY, AND FACE OF METAL/WOOD STUD PARTITION, UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS BETWEEN SURFACES WILL BE NOTED "CLR OR CLEAR" WHERE APPLICABLE FROM MATERIAL FINISHES.
- REFER TO FINISH PLAN AND ROOM FINISH SCHEDULE FOR FLOOR AND ROOM FINISHES.
- AT EXPOSED CEILING RECEIVING PAINT OR SPRAY APPLIED FINISHED - ALSO PAINT PRIMARY STRUCTURE, DUCTWORK, CONDUIT, PIPING, INSULATION, AND DEVICES AS ALLOWABLE PER PRODUCT WARRANTIES. REFER TO MECHANICAL DWGS FOR EQUIPMENT COORDINATION.

**RCP LEGEND**



**KEYNOTES**

N02	PROVIDE SUSPENDED GYP BD CEILING O/ MTL FRAMING - COORDINATE INSTALLATION OF CEILING-MOUNTED FIXTURES AND EQUIPMENT
N04	DOOR AND FRAME AS SCHEDULED INCLUDING HARDWARE, THRESHOLDS, TRANSITION STRIPS AND ASSOCIATED EQUIPMENT AS INDICATED
N05	WINDOW AND FRAME AS SCHEDULED INCLUDING TRIM, WDW TREATMENTS, AND ASSOCIATED HARDWARE AS INDICATED
N07	COORDINATE MECH EQPT AND ASSOCIATED PIPING, WIRING, AND SUPPORTS - REFER TO MECH DWGS AND SPECS
N09	COORDINATE ELEC EQPT AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N10	LIGHT FIXT - COORDINATE ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS
N12	REINSTALL EXIST EQUIPMENT AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N15	CEILING FAN AND ASSOCIATED WIRING AND CONDUIT - REFER TO ELEC DWGS AND EQUIPMENT SCHEDULE
N26	PROVIDE WALL MOUNTED STAINLESS STEEL CABINET AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N29	PROVIDE CEILING MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE

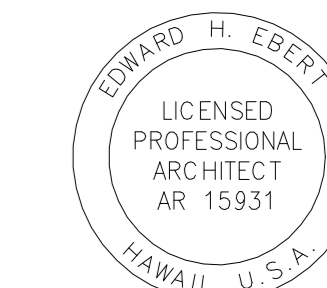
**KEYNOTES**

N30	PROVIDE WALL MOUNTED STAINLESS STEEL POT RACK AS INDICATED AND SPECIFIED - REFER TO EQUIPMENT SCHEDULE
N33	EXISTING RANGE HOOD - REFER TO MECH DWGS
N36	PROVIDE STORAGE SHELVES - REFER TO EQUIPMENT SCHEDULE AND CASEWORK DETAILS
N38	EXISTING PAPER TOWEL DISPENSER TO BE REINSTALLED AS INDICATED - REFER TO EQUIPMENT SCHEDULE

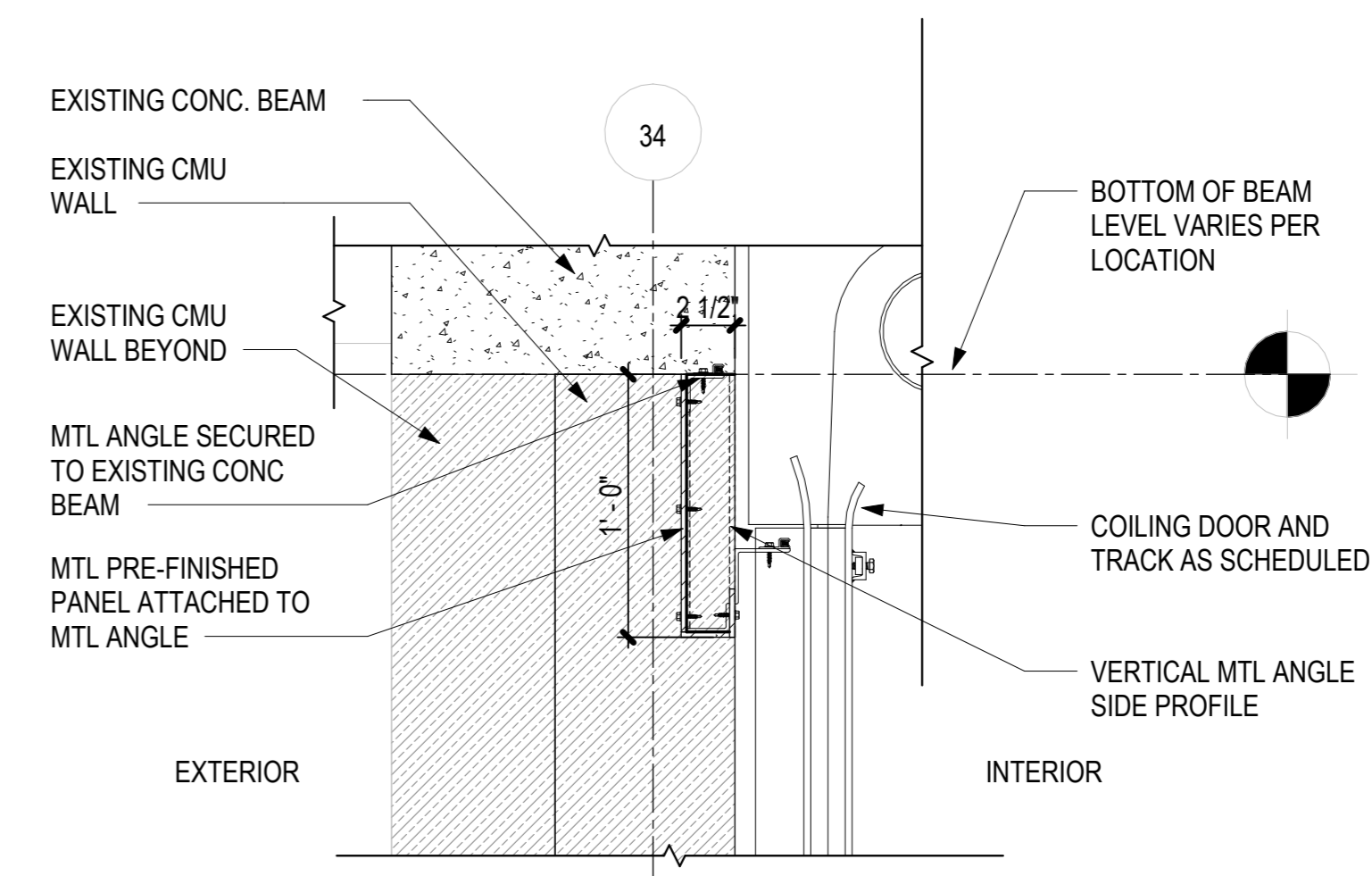




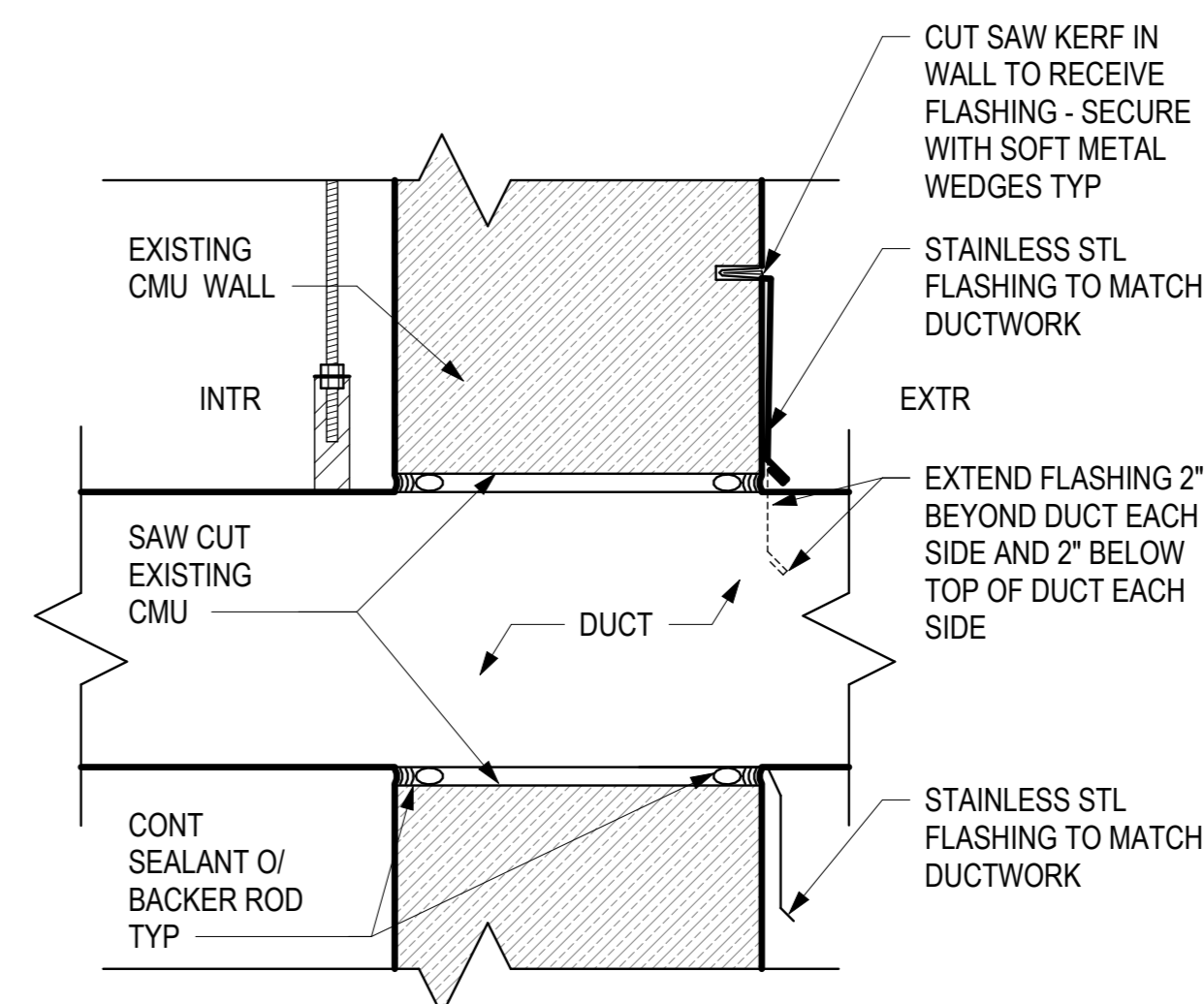
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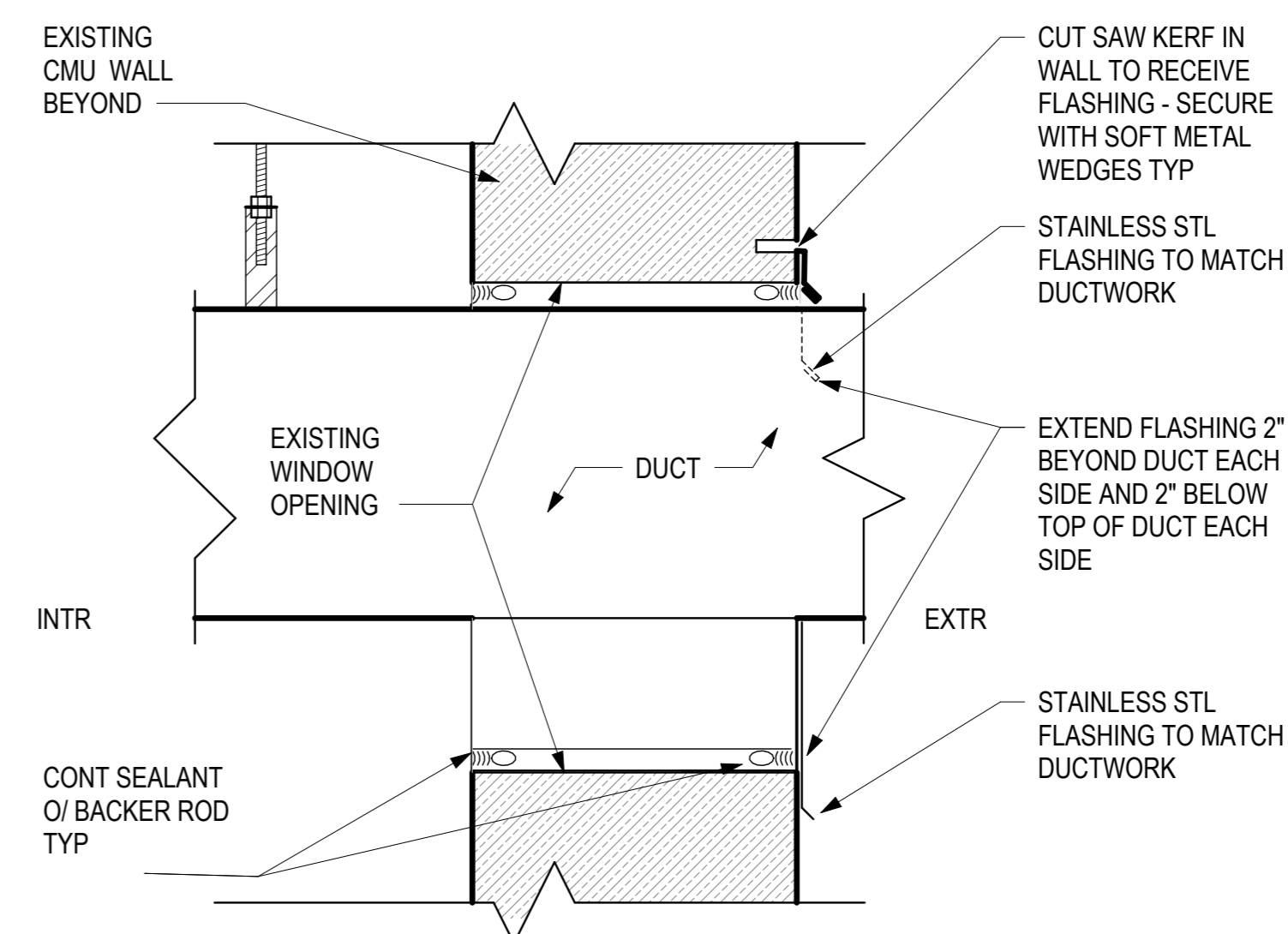
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1 PRE-FINISHED MTL PANEL SCREEN  
A-501 1 1/2" = 1'-0" 0" 3" 6" 1'



2 PENETRATION AT EXTR WALL - CMU  
A-501 3" = 1'-0" 0" 3" 6" 1'



3 MECH HOOD @ EXIST WINDOW OPENING  
A-501 3" = 1'-0" 0" 3" 6" 1'

DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

MAY 2024  
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PROJECT TITLE :

JRF ARFF STATION RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

EXTERIOR DETAILS

DATE :

01 MAY 2024

SHEET :

24 OF 57 SHEETS

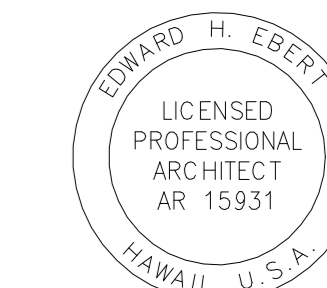
DWG. NO.

A-501





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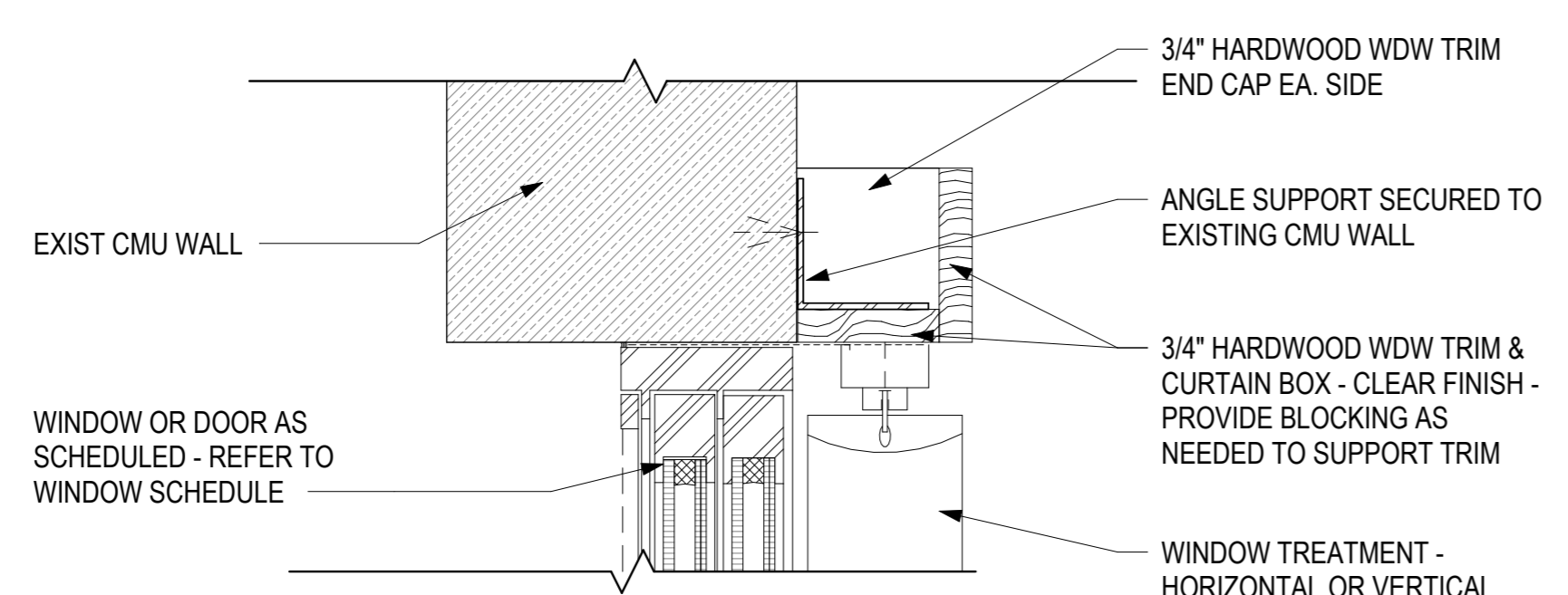
**PROJECT NO.:**

**CO4420-33**

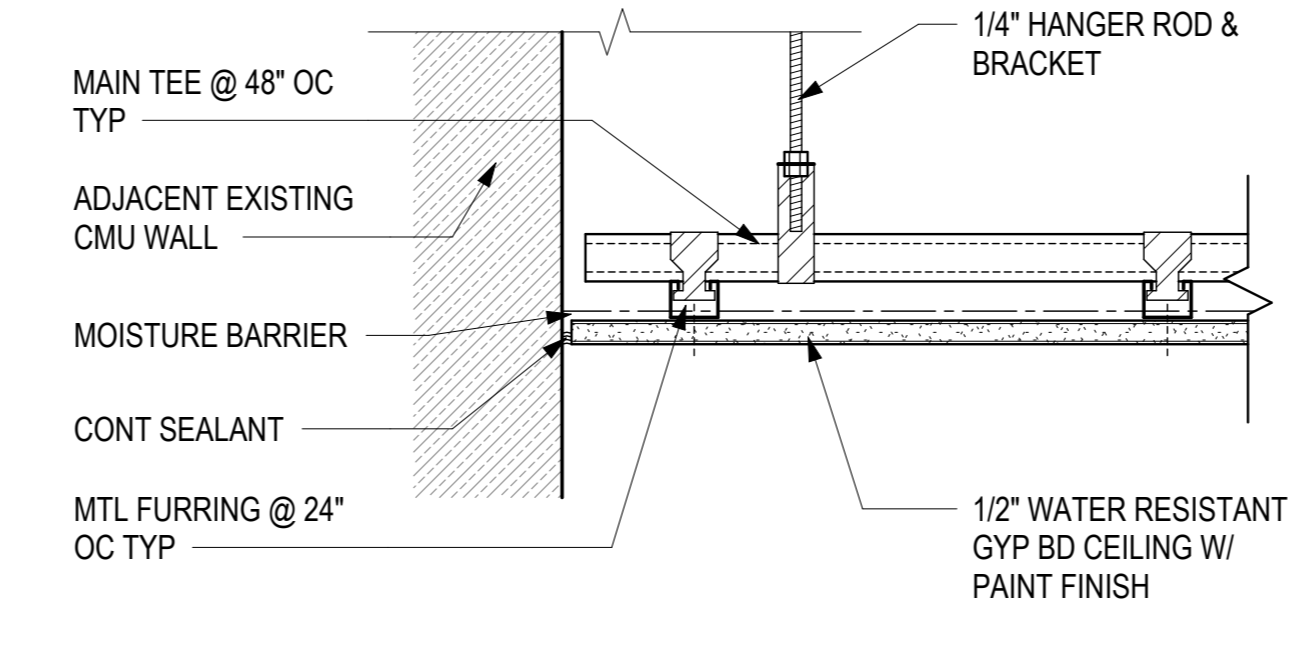
**SHEET TITLE:**

**INTERIOR AND WALL DETAILS**

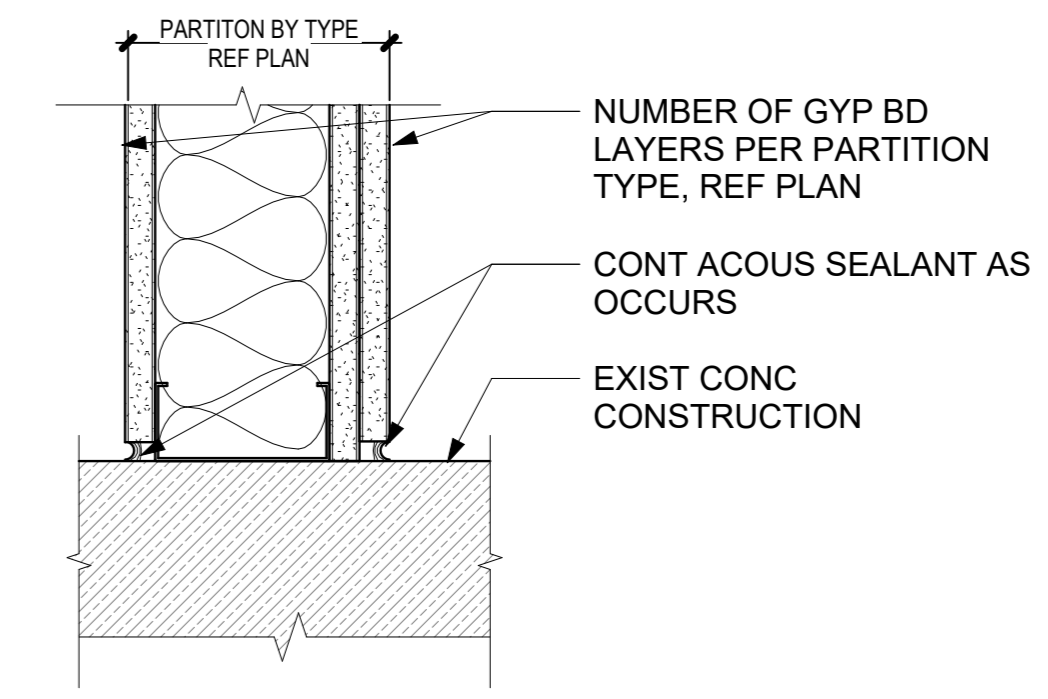
DATE :	DWG. NO.
01 MAY 2024	A-502
SHEET :	
22 OF 57 SHEETS	



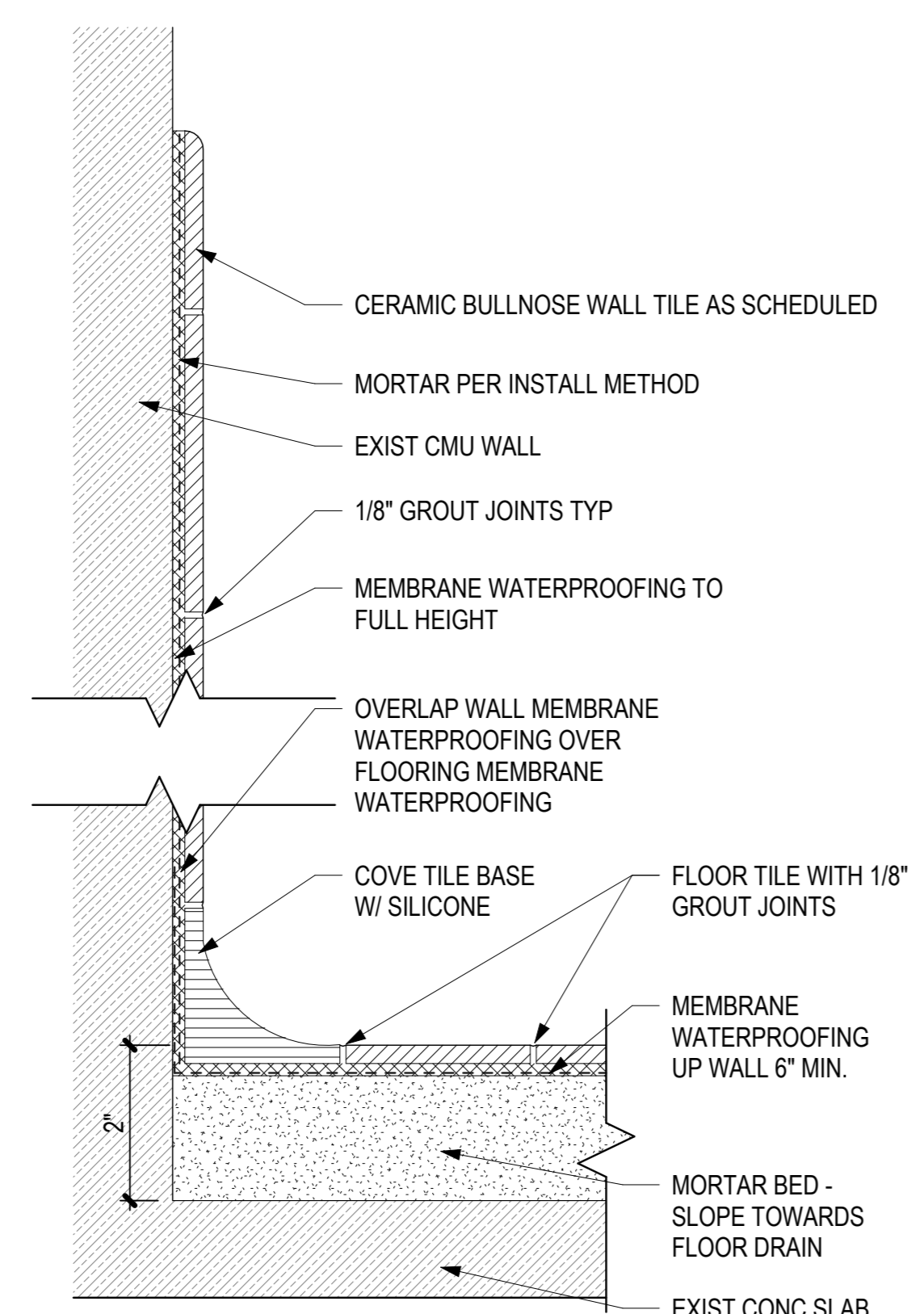
**1 CURTAIN BOX**  
A-502 3" = 1'-0"



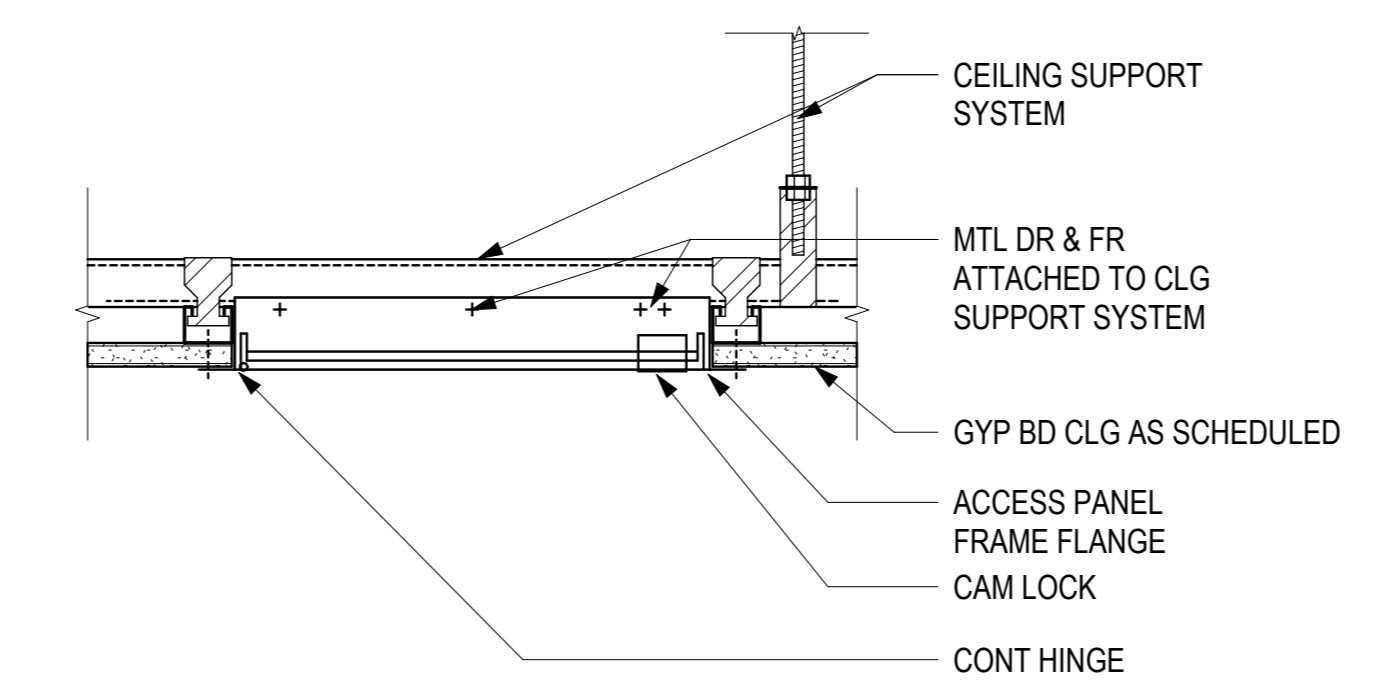
**2 WR / MR SUSPENDED GYP BD CEILING SYSTEM**  
A-502 3" = 1'-0"



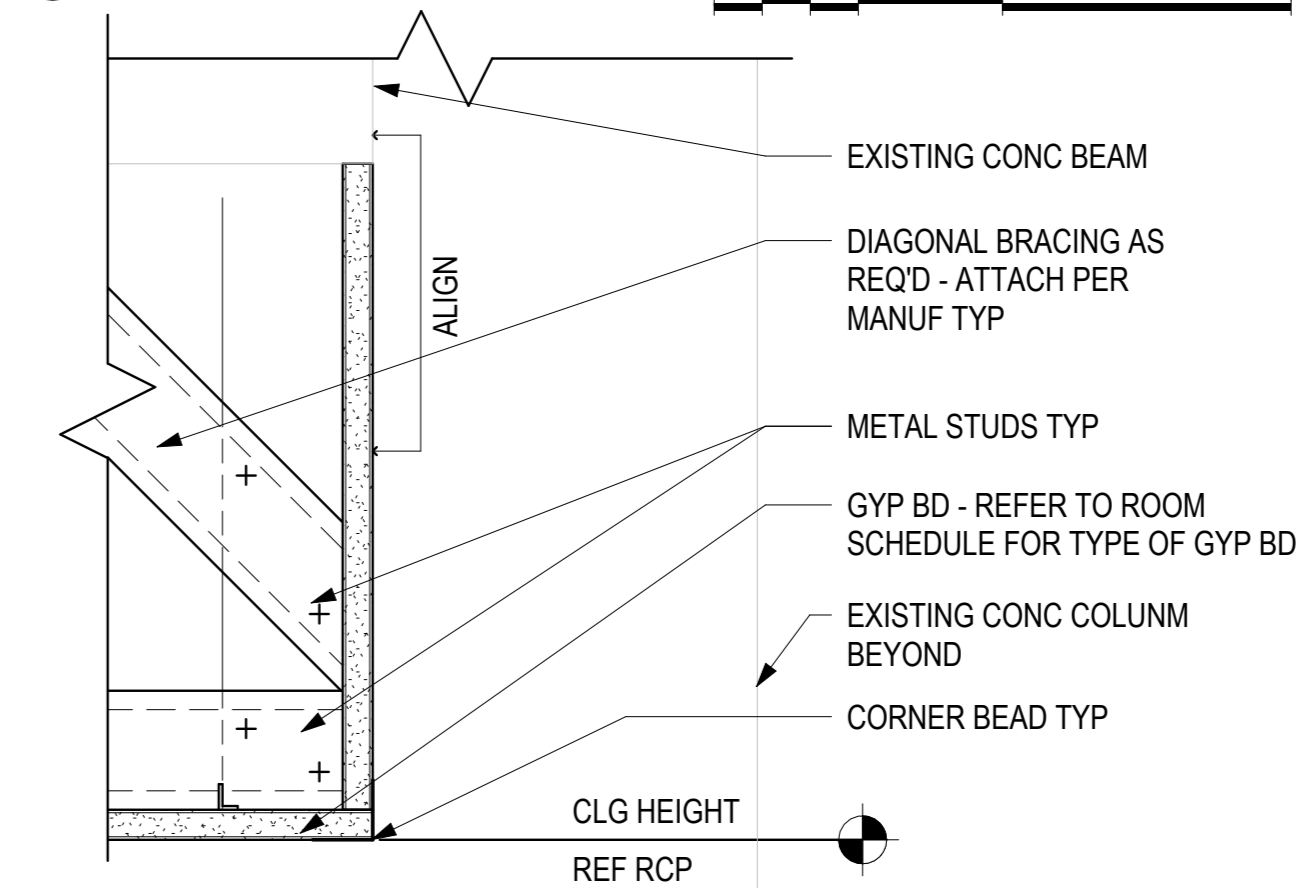
**3 PARTITION TO CONC.**  
A-502 3" = 1'-0"



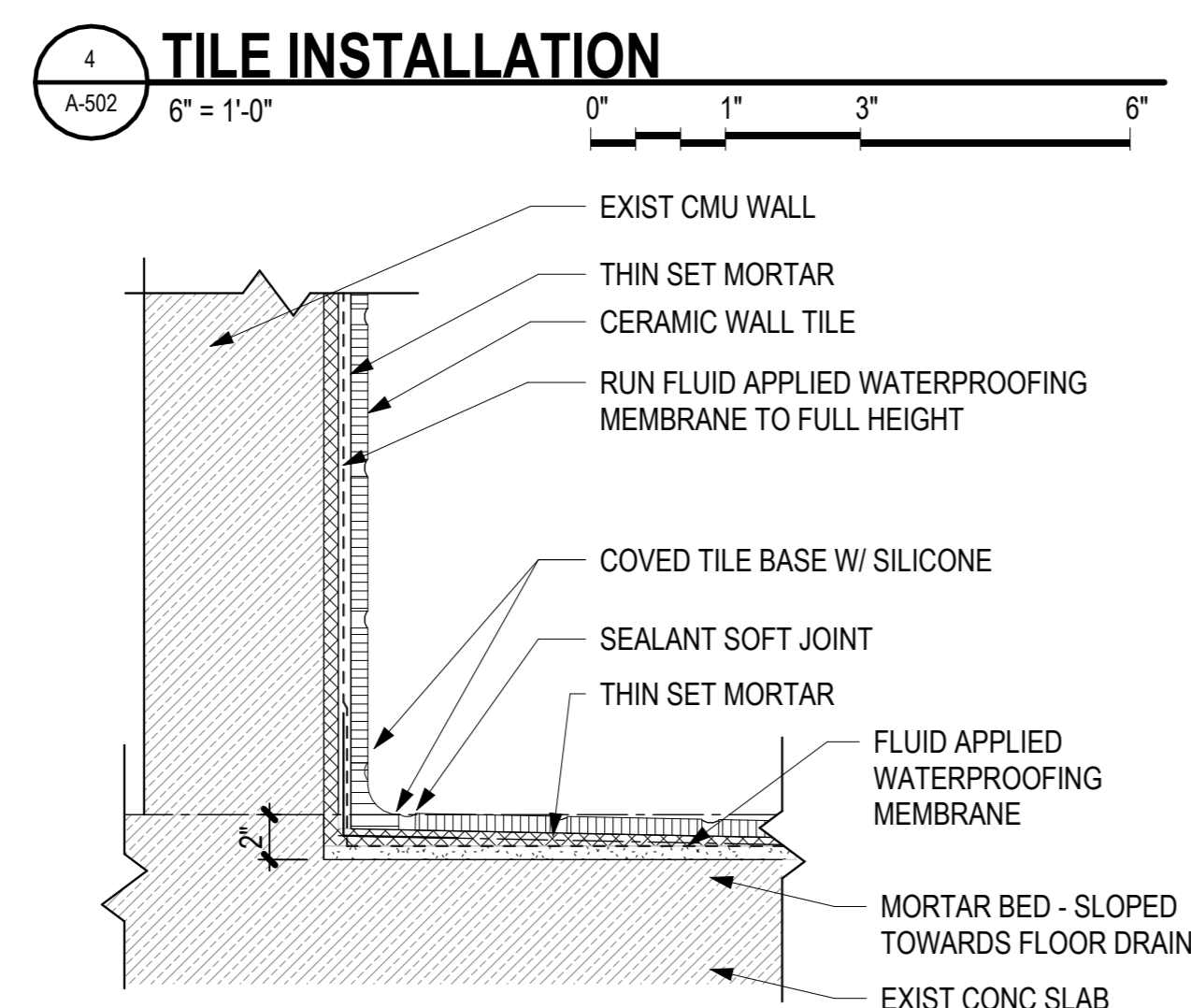
**4 TILE INSTALLATION**  
A-502 6" = 1'-0"



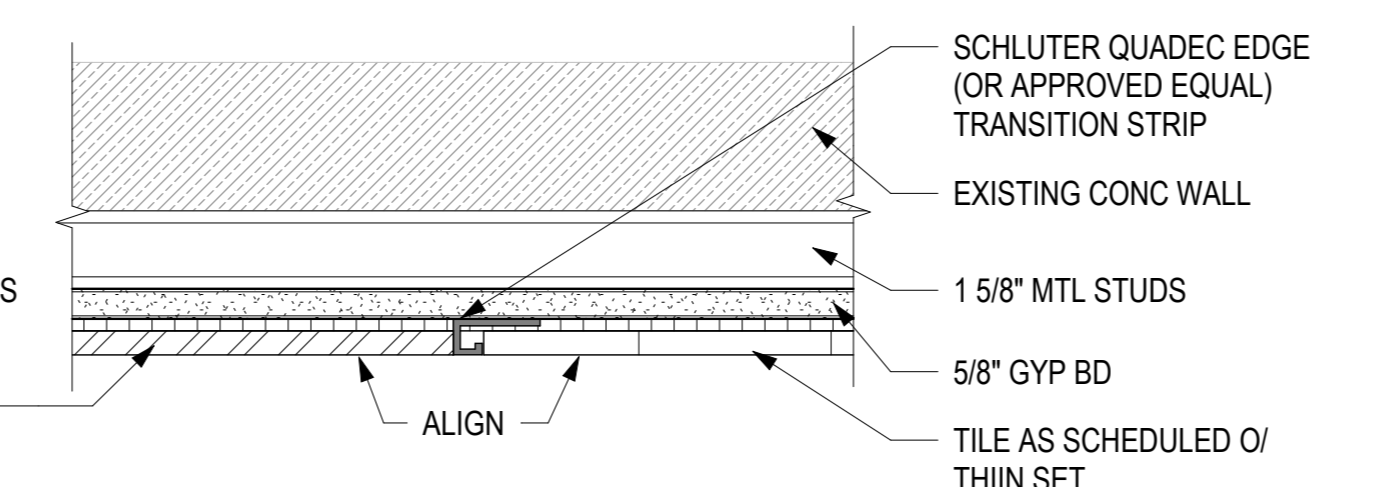
**5 CEILING ACCESS PANEL**  
A-502 3" = 1'-0"



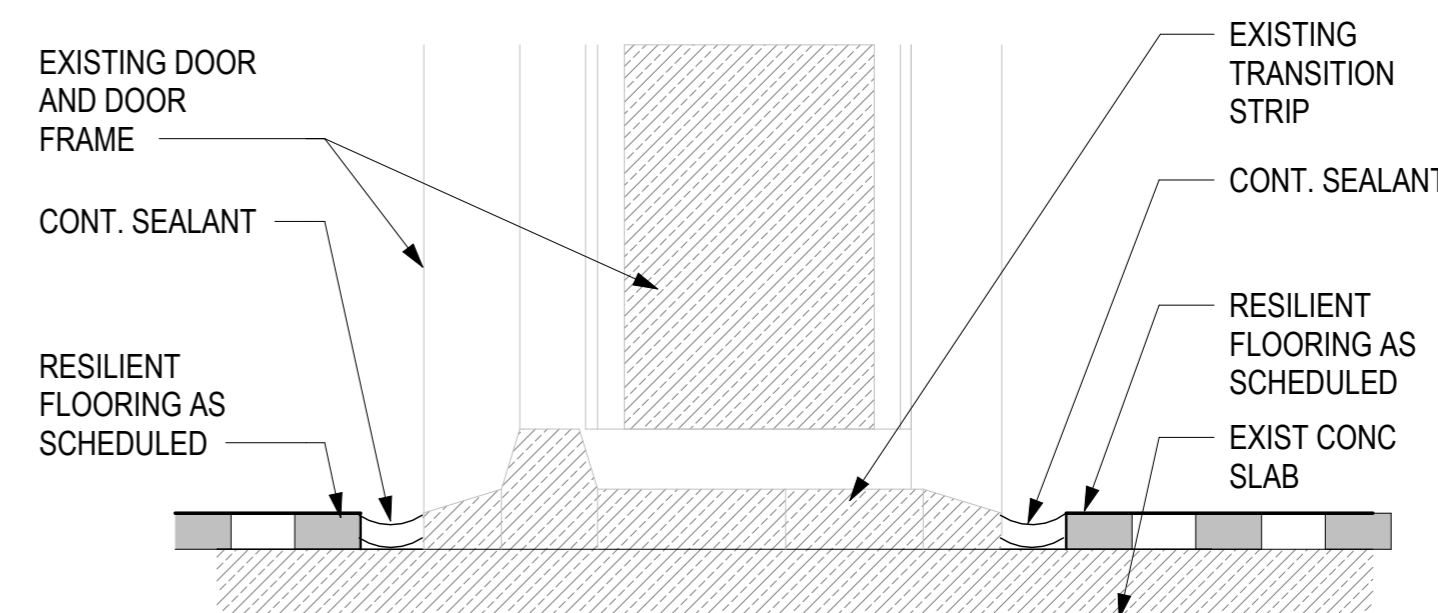
**6 GYP BD SOFFIT**  
A-502 3" = 1'-0"



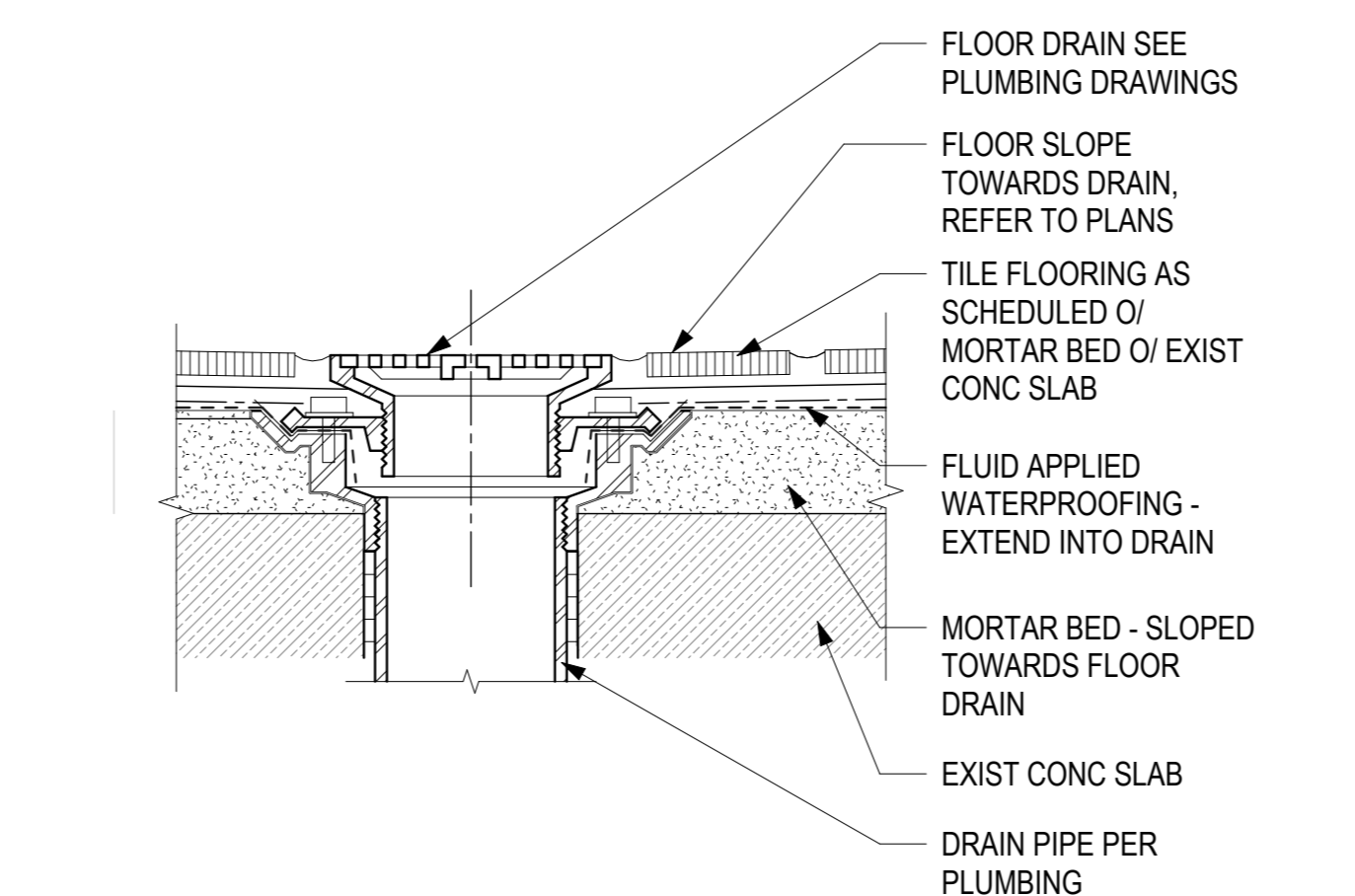
**9 TILE WALL BASE TO TILE FLOORING**  
A-502 1 1/2" = 1'-0"



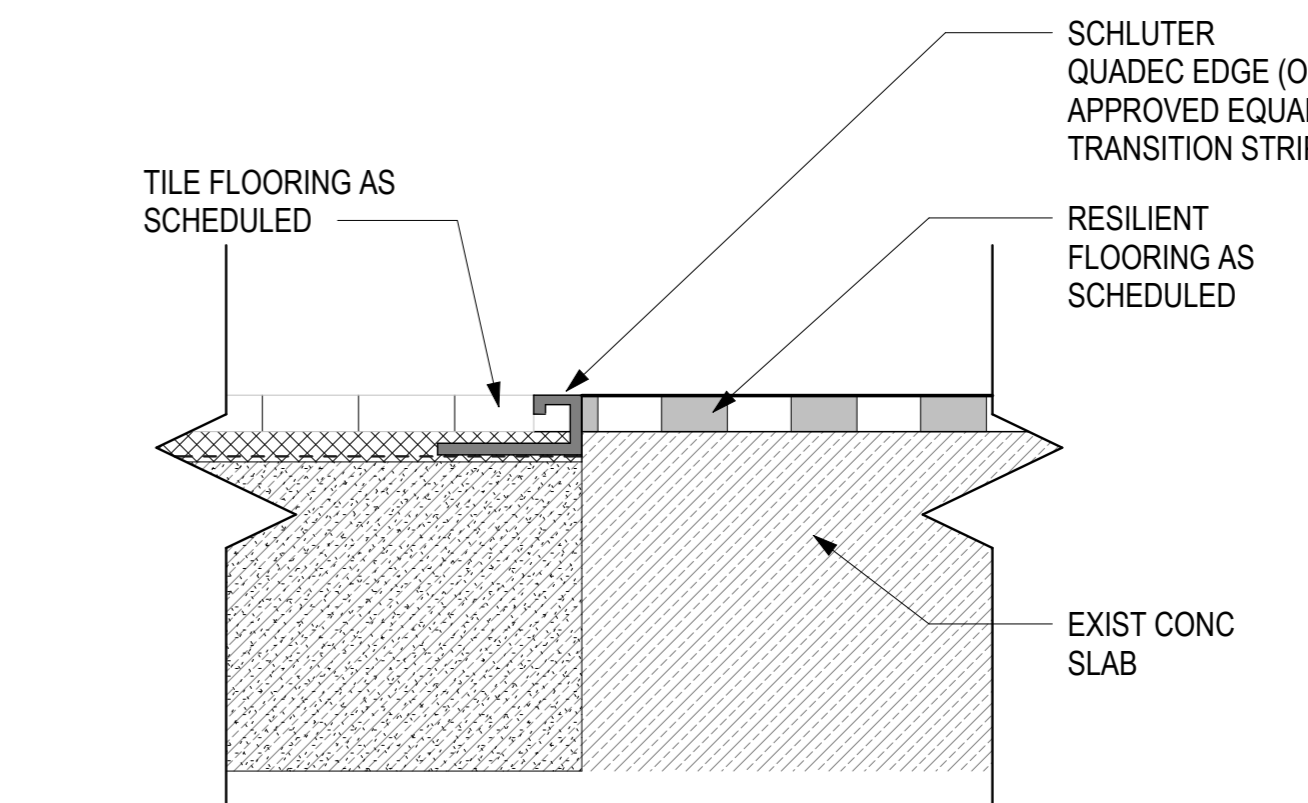
**7 WALL TRANSITION - MTL PANEL TO WALL TILE**  
A-502 3" = 1'-0"



**8 RESILIENT TO RESILIENT FLR TRANSITION**  
A-502 12" = 1'-0"



**10 FLOOR DRAIN**  
A-502 3" = 1'-0"

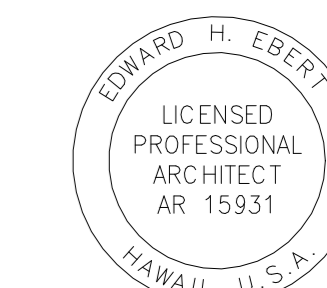


**11 TILE TO RESILIENT FLR TRANSITION**  
A-502 12" = 1'-0"





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HAWAII, U.S.A.  
04-30-2026  
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DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
-----	------	-----------

**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

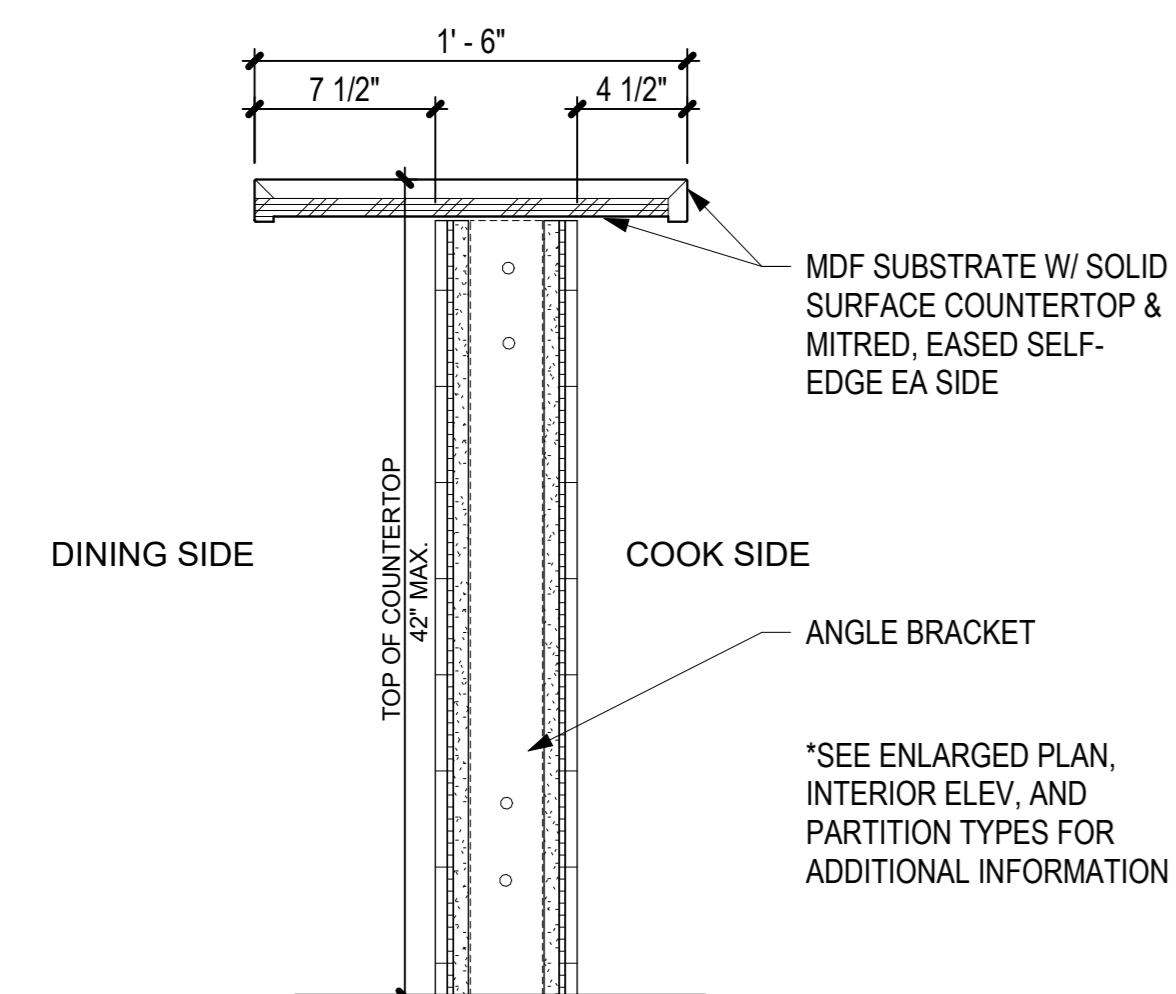
**CO4420-33**

**SHEET TITLE:**

**CASEWORK DETAILS**

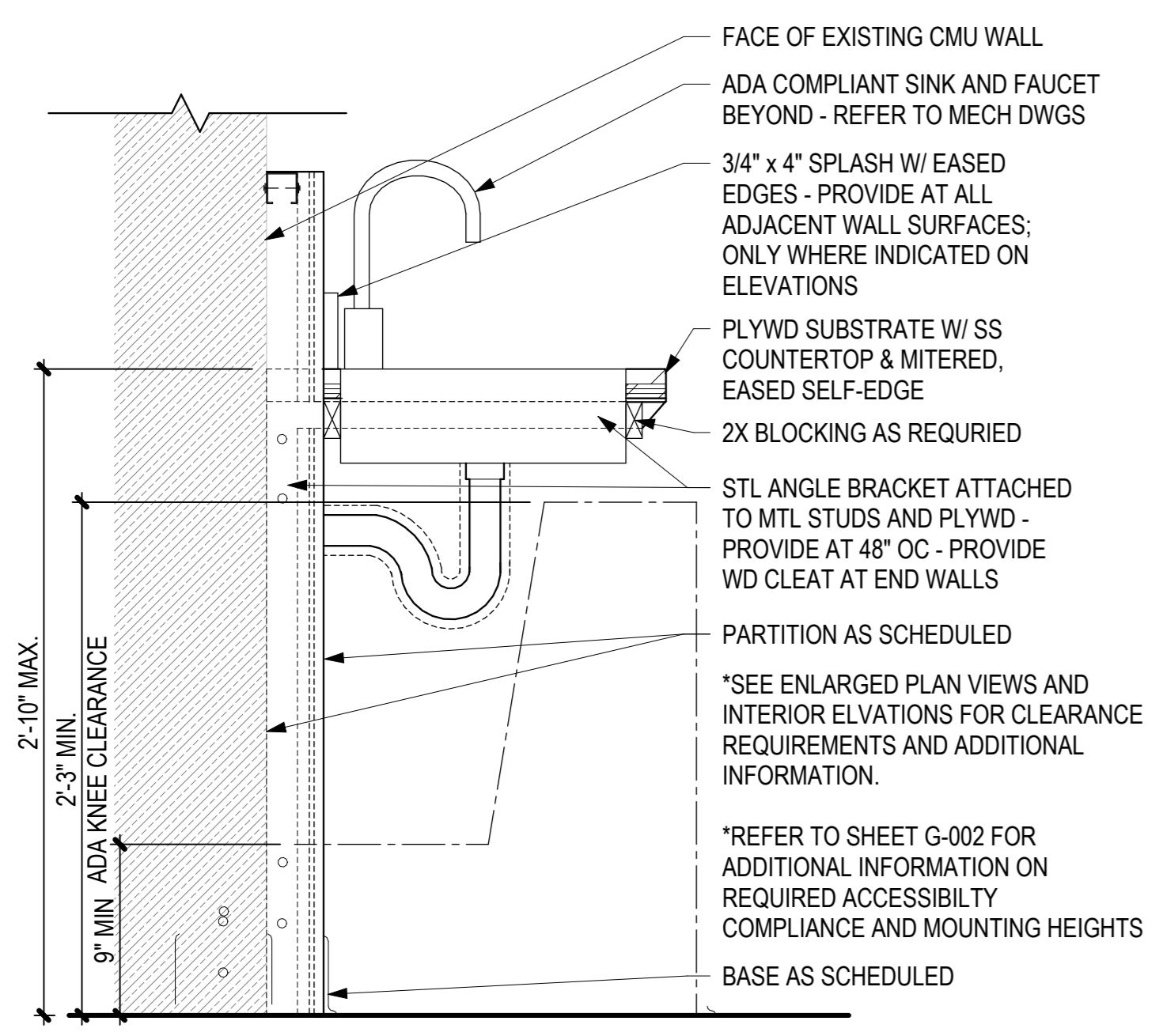
DATE :  
01 MAY 2024  
SHEET :

DWG. NO.  
**A-503**



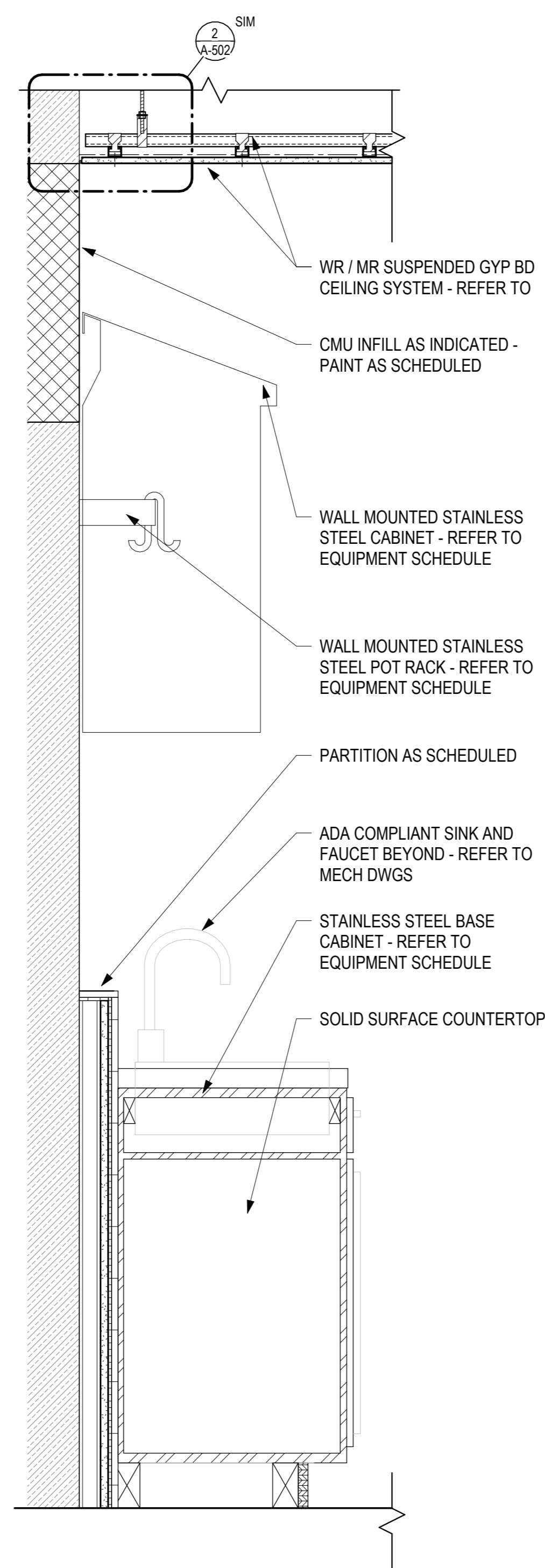
**1 TWO TIER OPEN COUNTER - SOLID SURFACE**

A-503 1 1/2" = 1'-0"



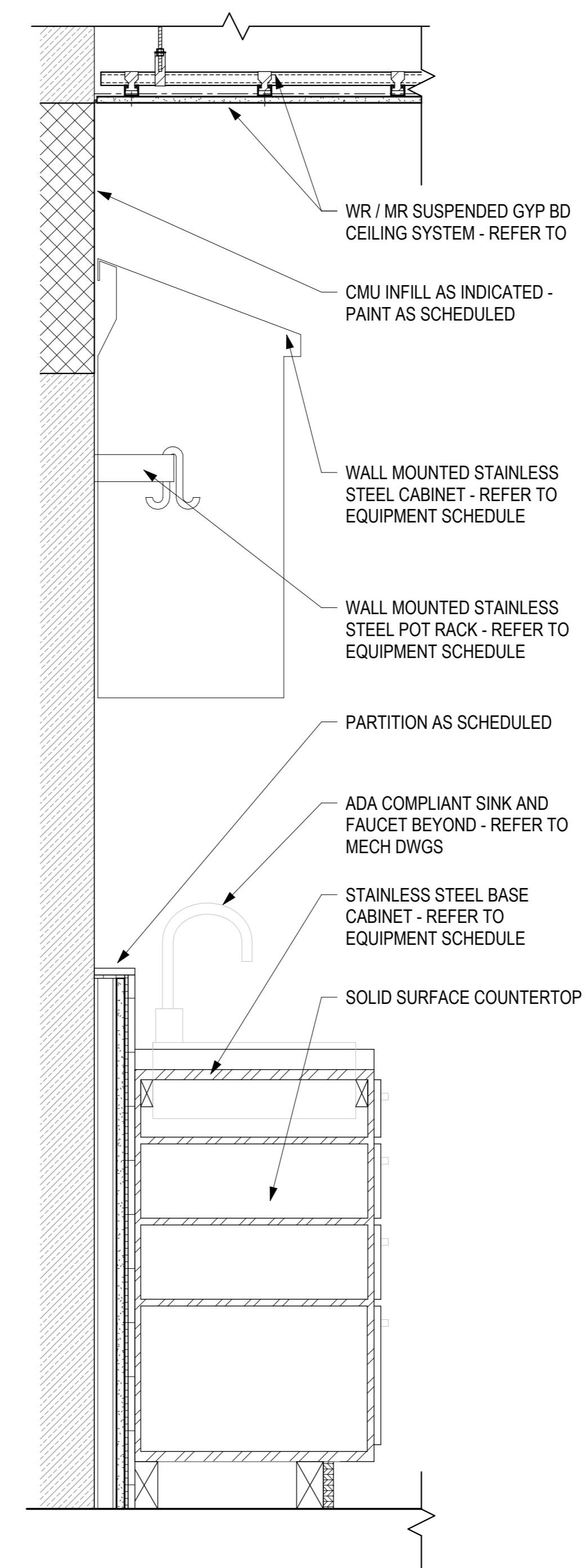
**2 SOLID SURFACE COUNTER @ ADA SINK**

A-503 1 1/2" = 1'-0"



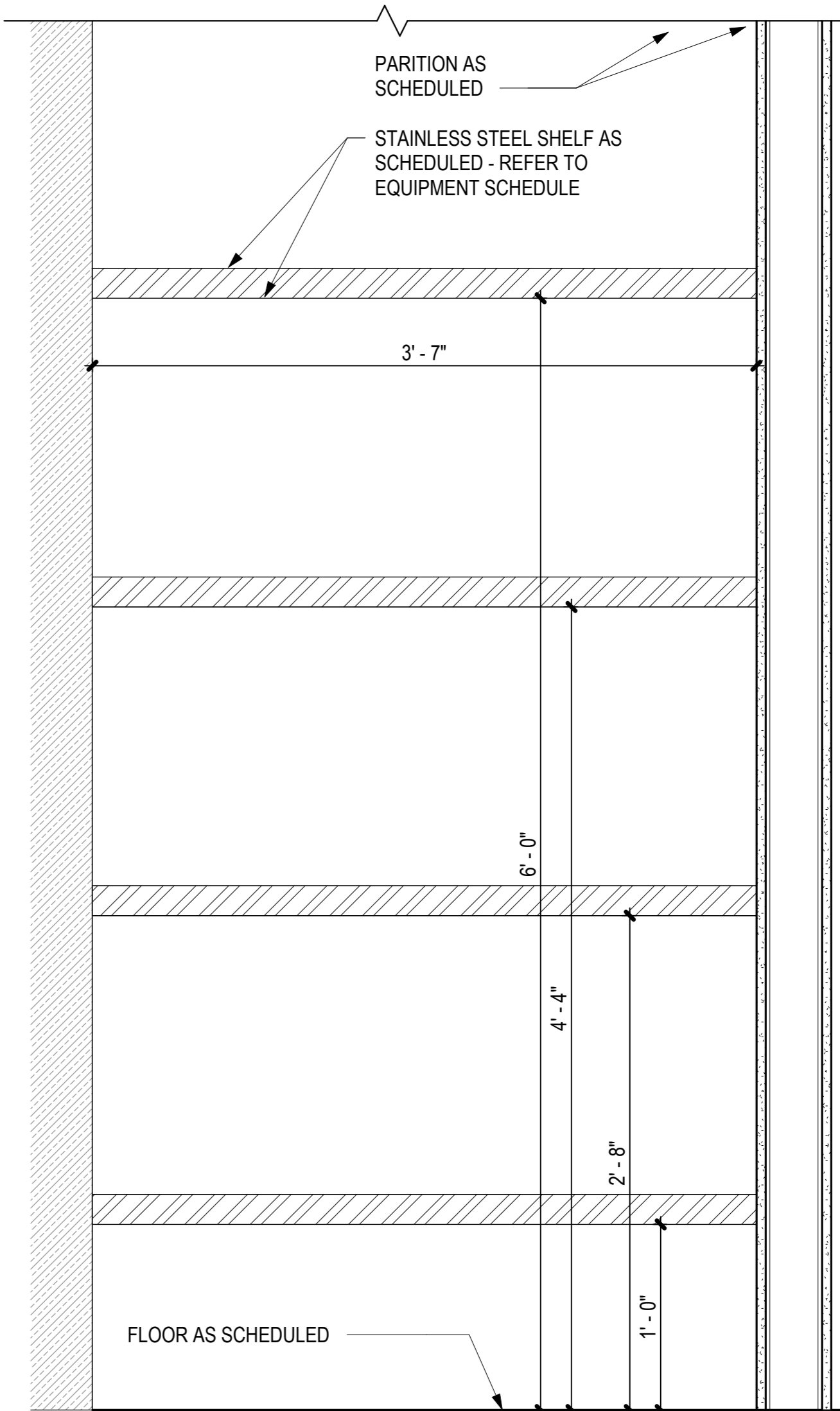
**5 KITCHENETTE CASEWORK SECTION 1**

A-503 1 1/2" = 1'-0"



**4 KITCHENETTE CASEWORK SECTION 2**

A-503 1 1/2" = 1'-0"



**6 PANTRY CASEWORK SECTION 1**

A-503 1 1/2" = 1'-0"





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KEY PLAN / NOTES:

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MAY 2024 DATE		

PROJECT TITLE :

JRF ARFF STATION RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

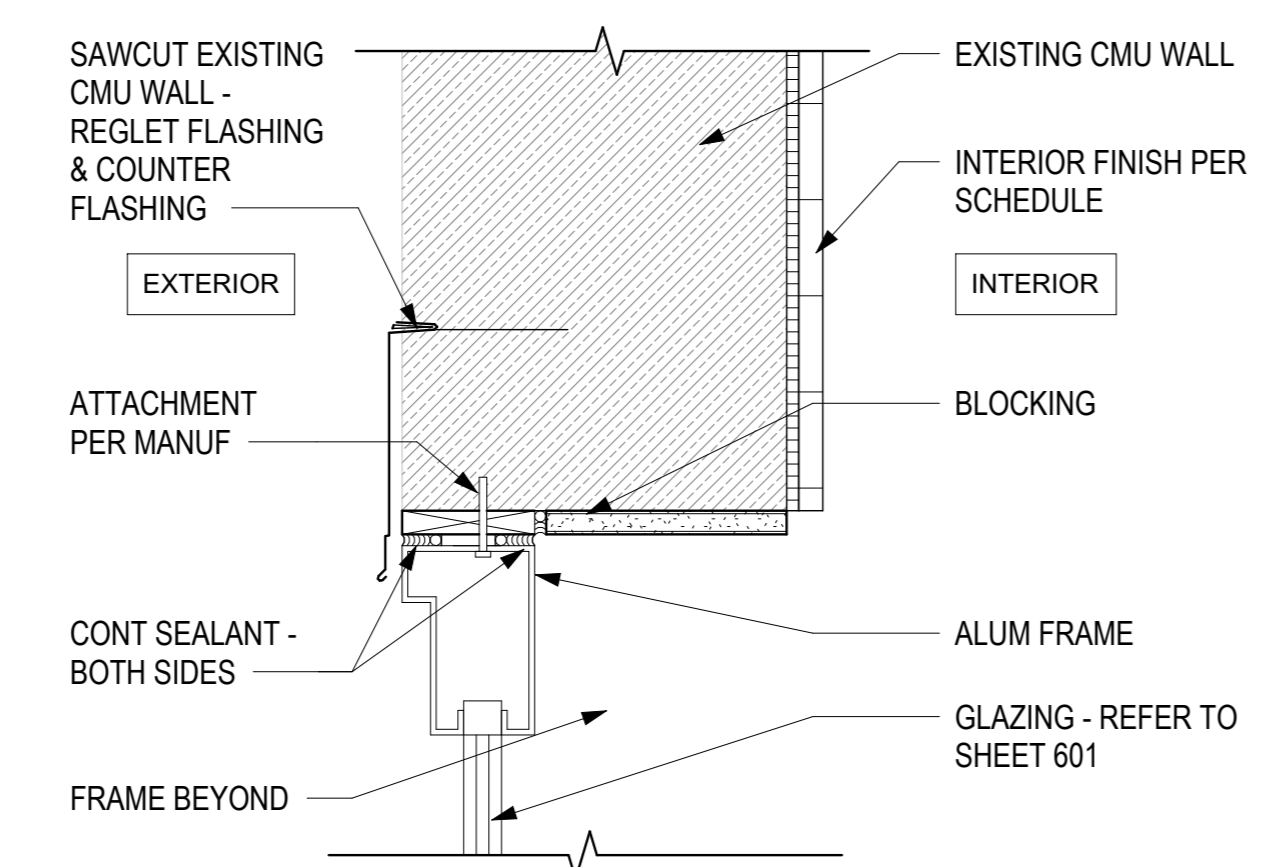
PROJECT NO.:

CO4420-33

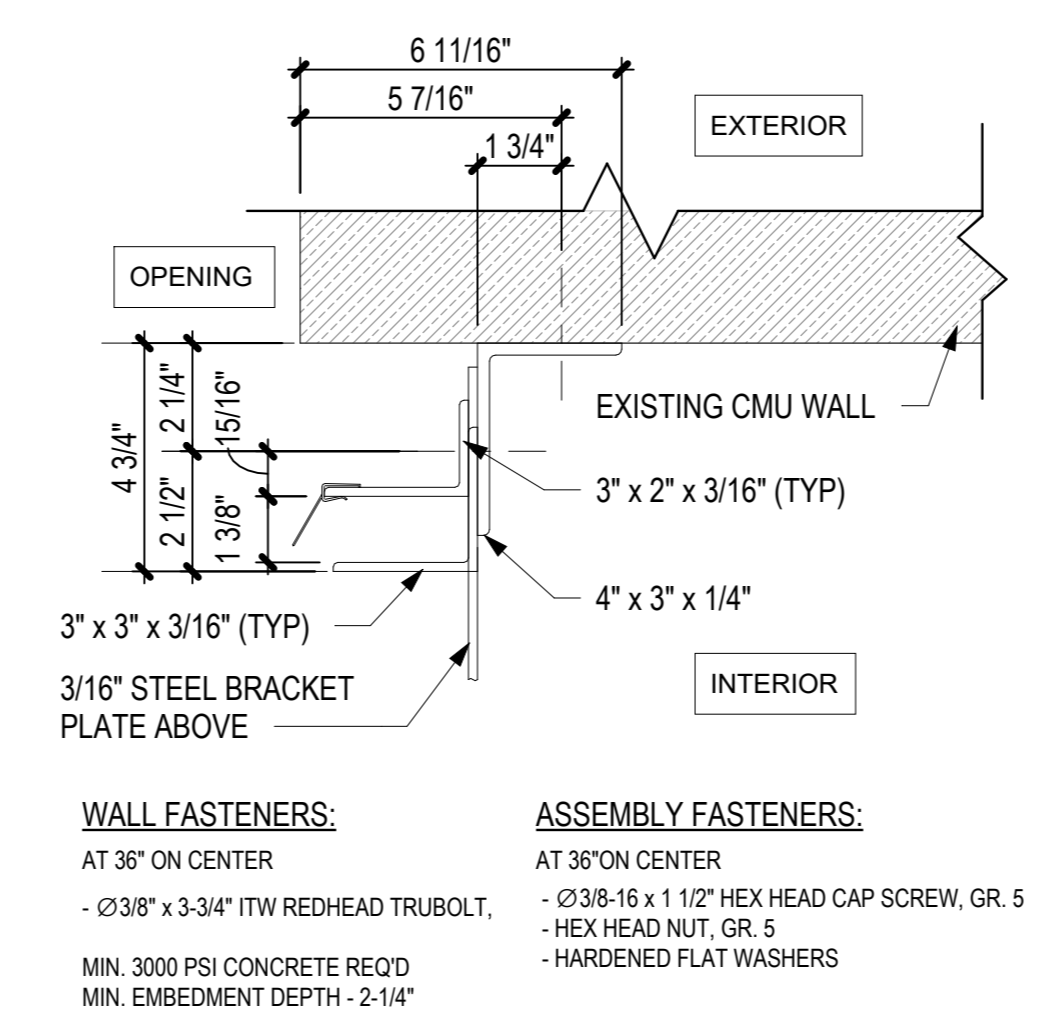
SHEET TITLE:

DOOR AND WINDOW DETAILS

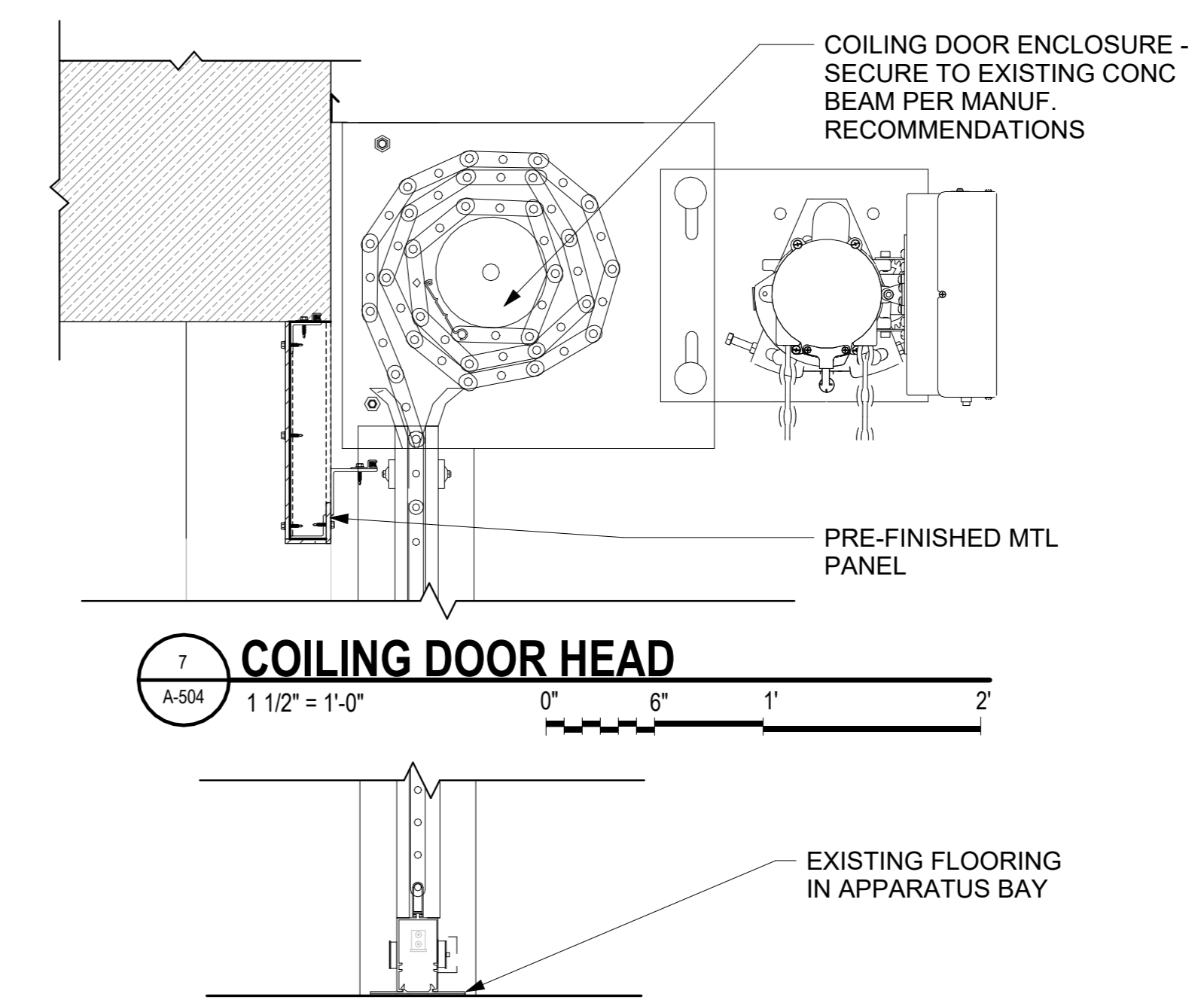
DATE :	DWG. NO.
01 MAY 2024	A-504
SHEET :	
25 OF 57 SHEETS	



11 SLIDING DOOR HEAD  
A-504 3" = 1'-0" 0" 3" 6" 1'

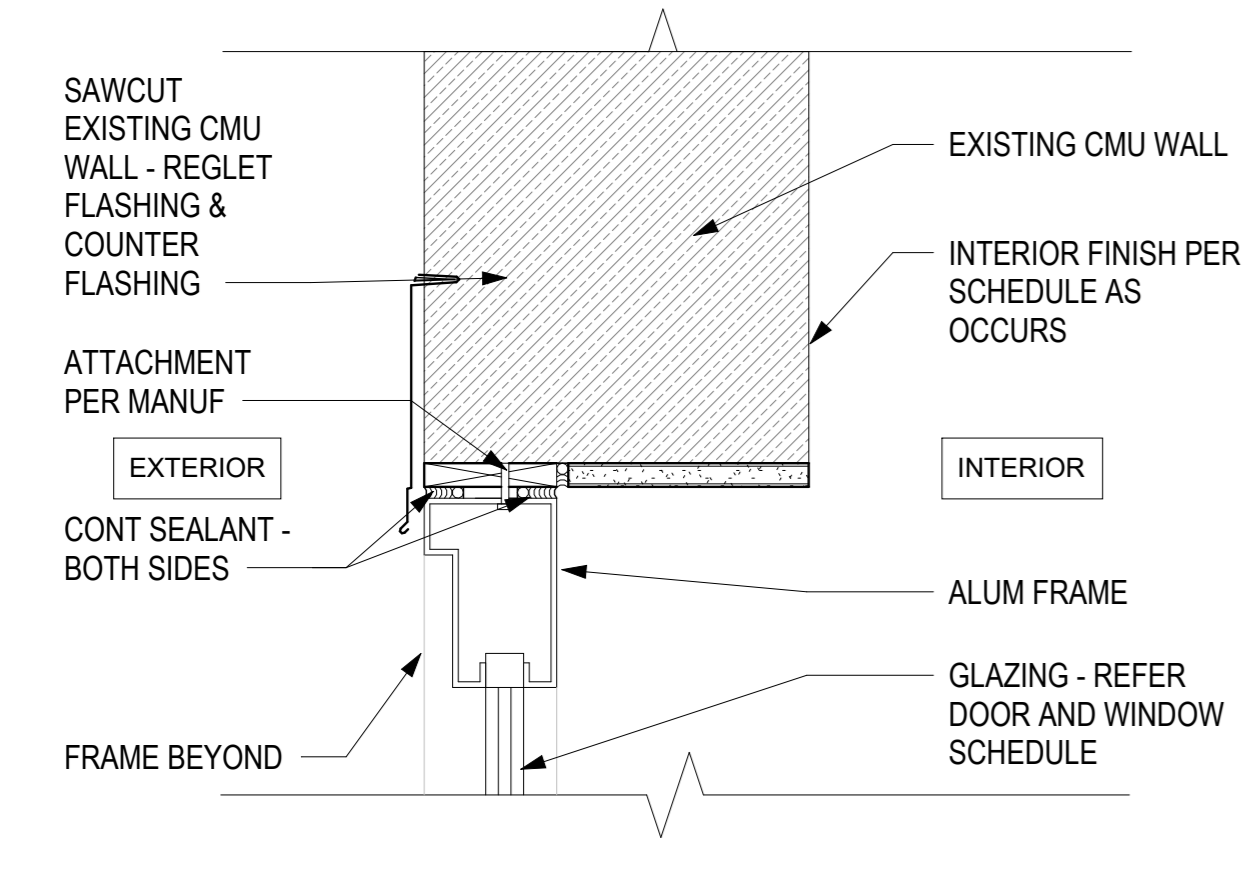


8 COILING DOOR JAMB  
A-504 3" = 1'-0" 0" 3" 6" 1'

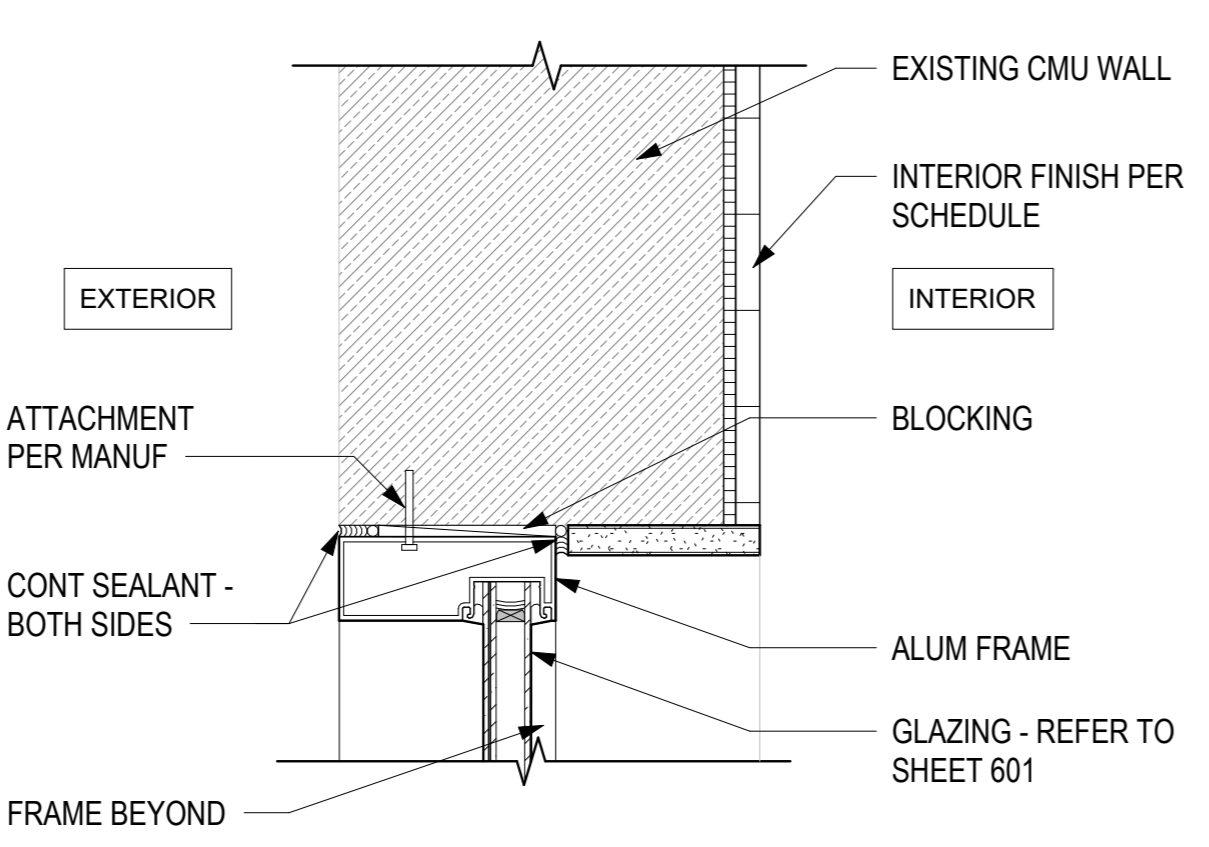


7 COILING DOOR HEAD  
A-504 1 1/2" = 1'-0" 0" 6" 1" 2'

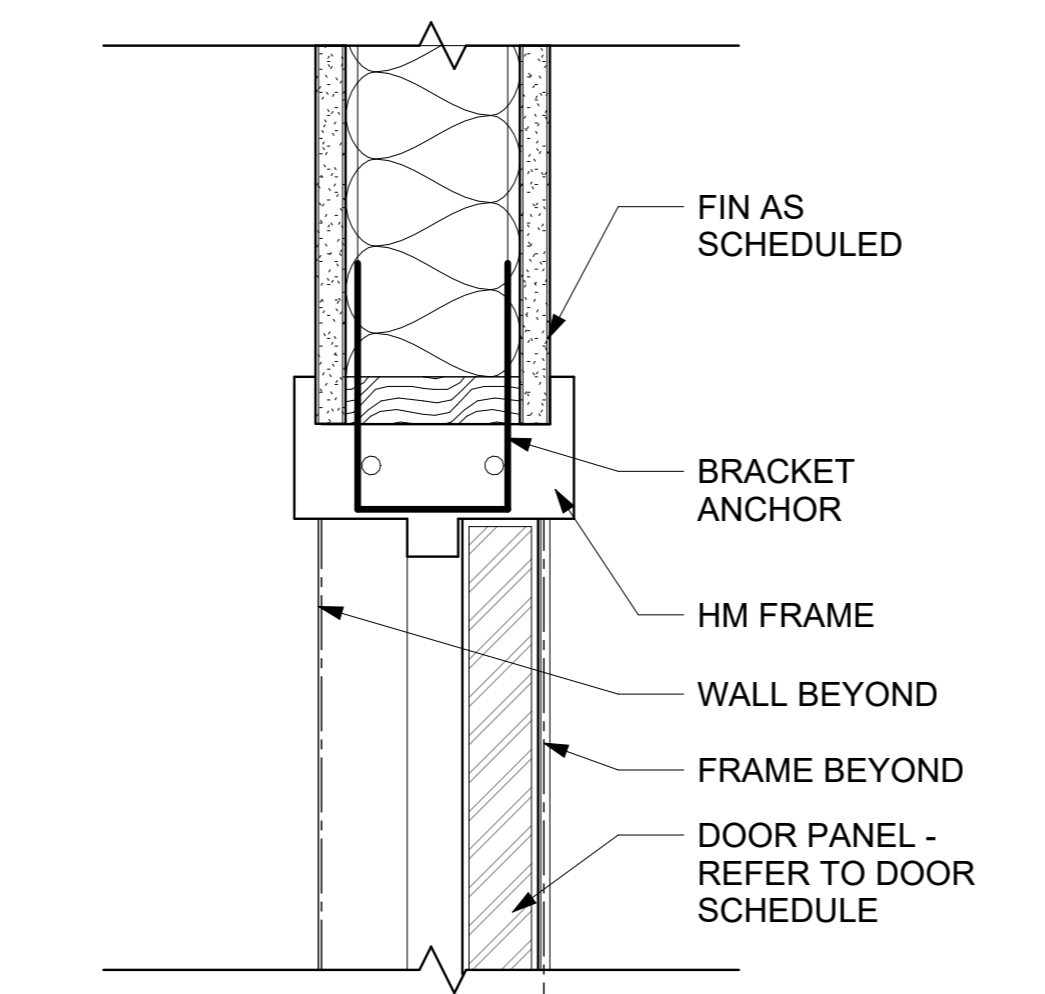
12 COILING DOOR THRESHOLD  
A-504 1 1/2" = 1'-0" 0" 6" 1" 2'



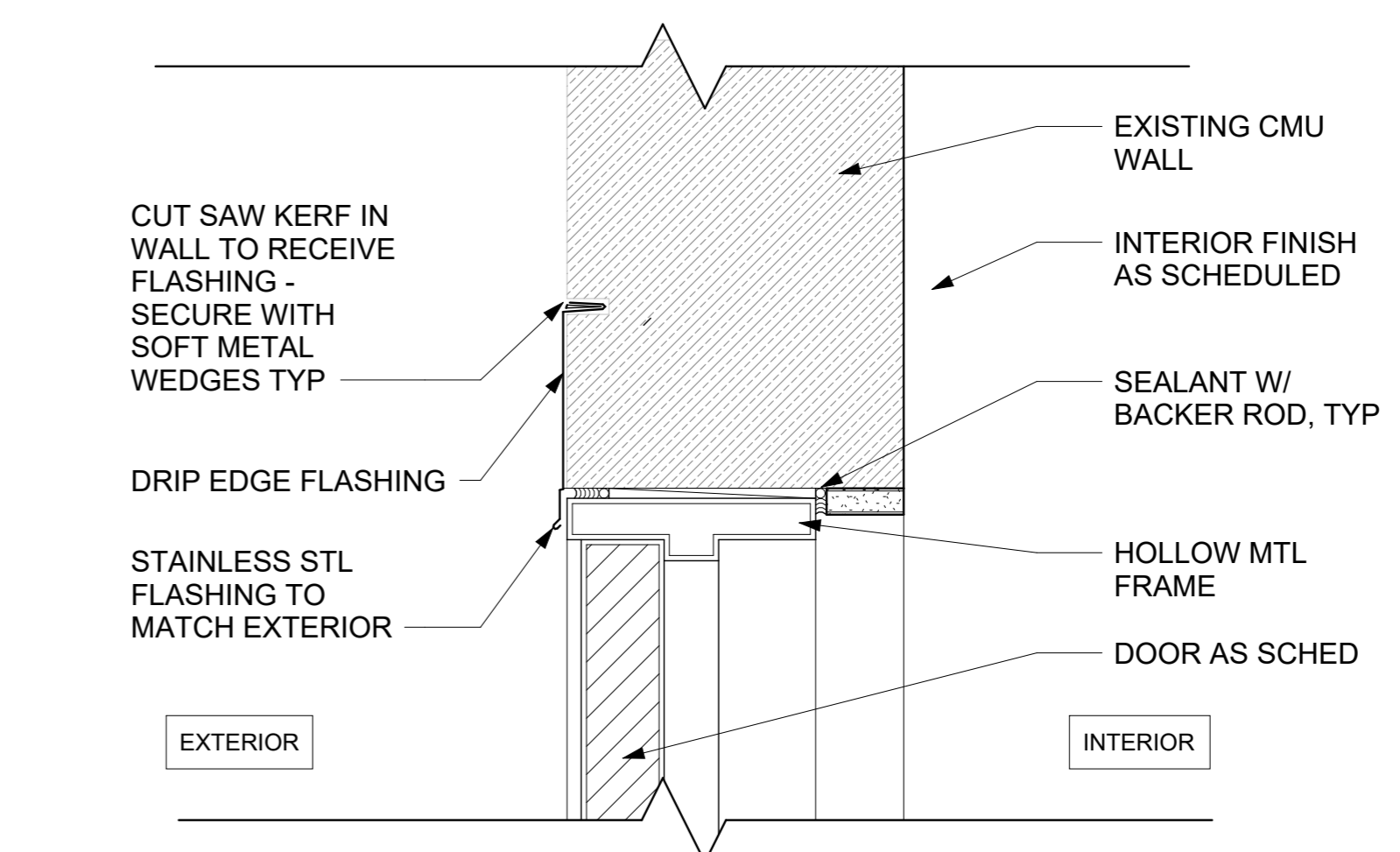
9 WINDOW HEAD / JAMB AT EXIST CMU  
A-504 3" = 1'-0" 0" 3" 6" 1'



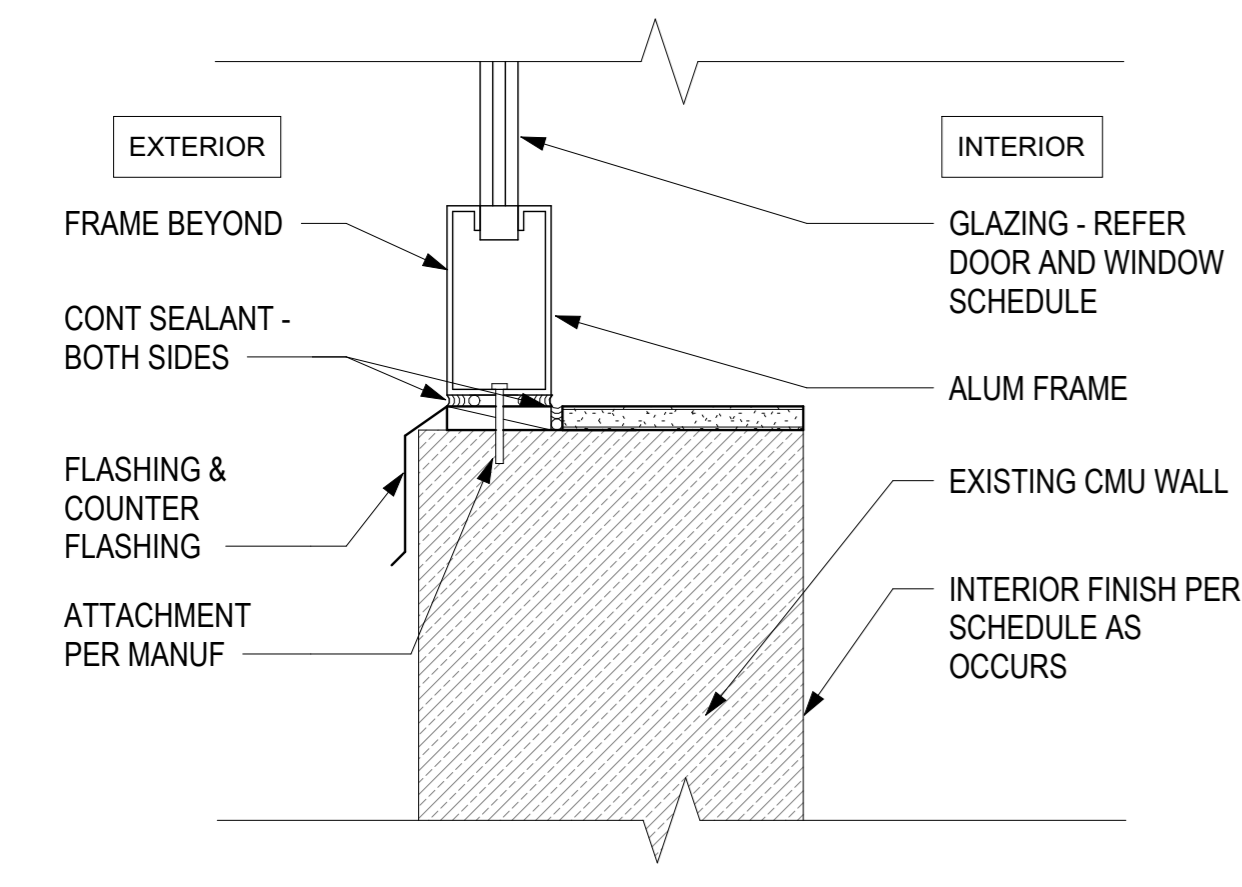
1 SLIDING DOOR JAMB  
A-504 3" = 1'-0" 0" 3" 6" 1'



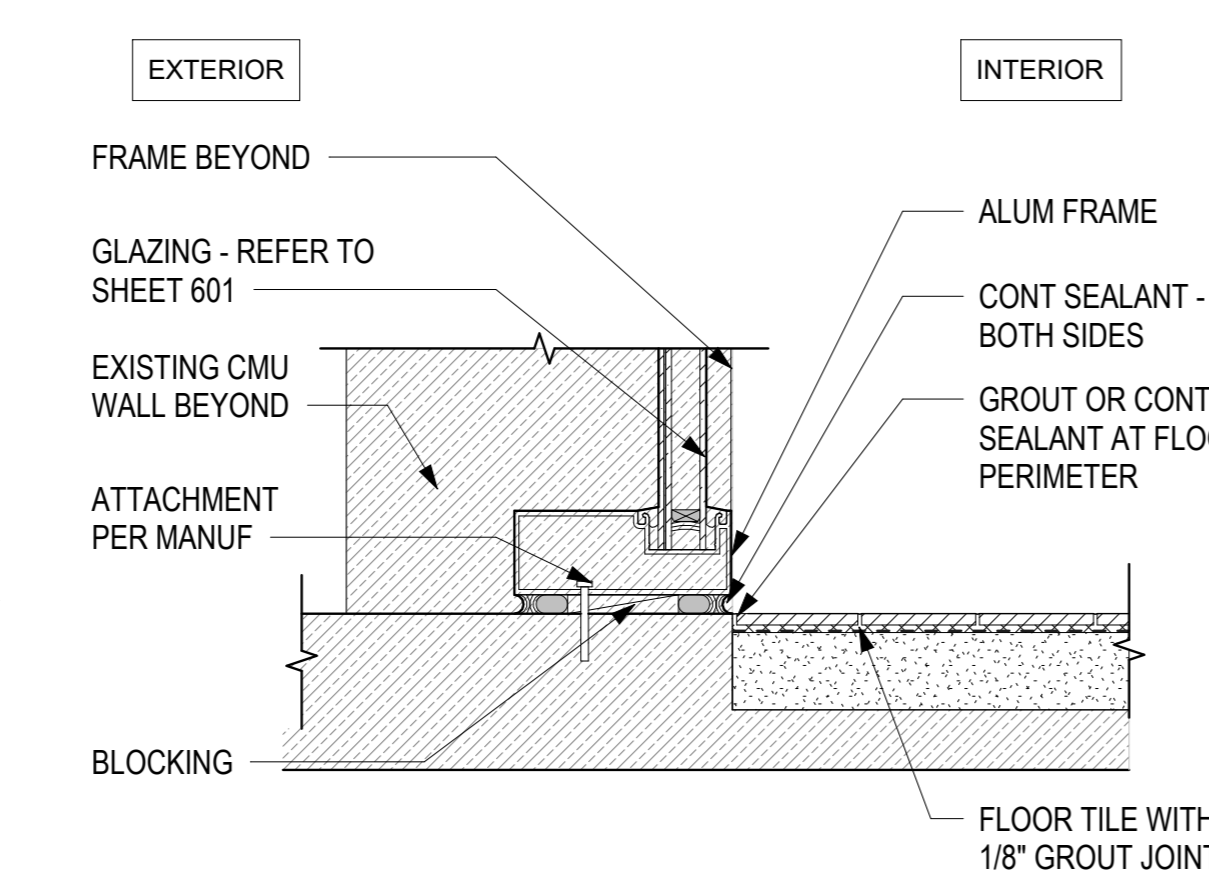
2 INTR DR HEAD / JAMB - MTL STUD  
A-504 3" = 1'-0" 0" 3" 6" 1'



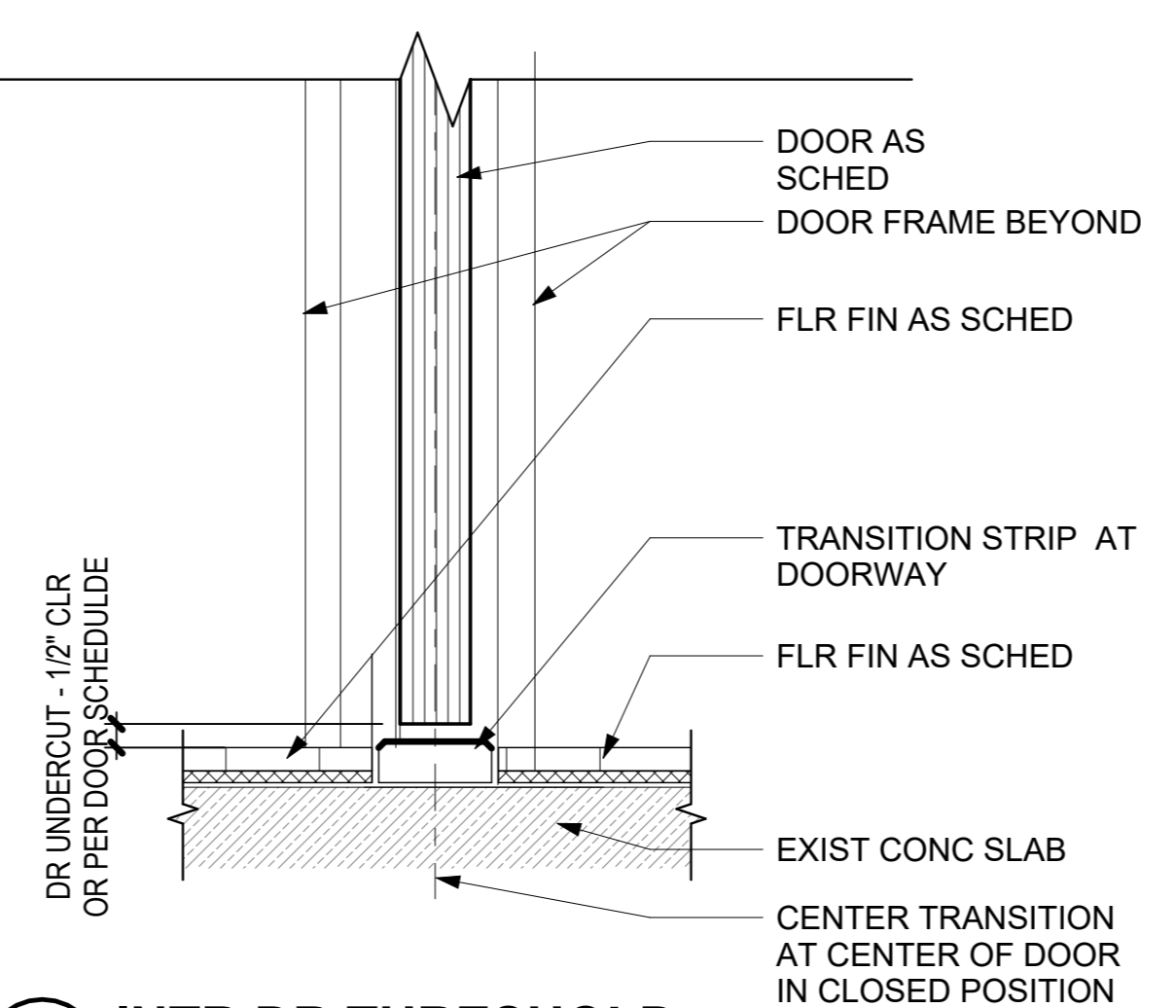
3 EXTR DOOR HEAD / JAMB - CMU  
A-504 3" = 1'-0" 0" 3" 6" 1'



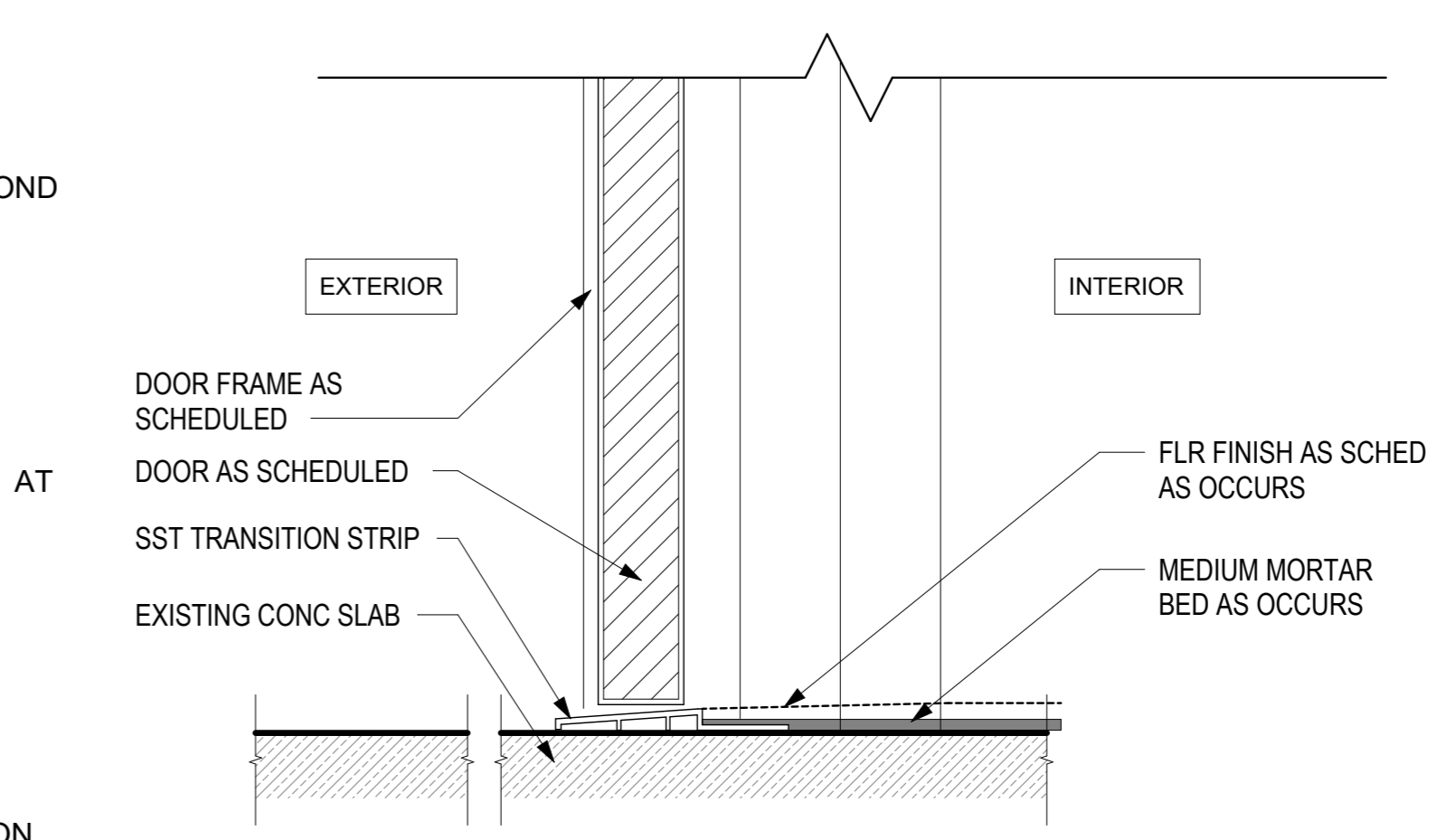
10 WINDOW SILL AT EXIST CMU  
A-504 3" = 1'-0" 0" 3" 6" 1'



4 SLIDING DOOR SILL  
A-504 3" = 1'-0" 0" 3" 6" 1'



5 INTR DR THRESHOLD  
A-504 3" = 1'-0" 0" 3" 6" 1'

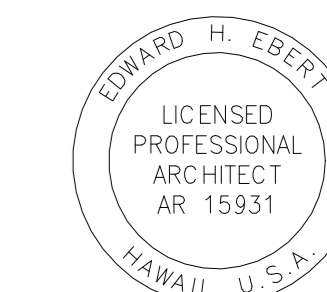


6 EXTR DOOR THRESHOLD  
A-504 3" = 1'-0" 0" 3" 6" 1'





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### MATERIAL & FINISH SCHEDULE

SYMBOL	MATERIAL	BASIS OF DESIGN MANUFACTURER (OR APPROVED EQUAL)	DESCRIPTION	FINISH / COLOR	LOCATION	REMARKS
<b>WALL</b>						
CWT-1	CERAMIC WALL TILE	CROSSVILLE INC.	HANDWRITTEN CERAMIC WALL TILE - 3" X 6"	UNSCRIPTED	KITCHEN	3" X 6" BULLNOSE END CAP
PT-1	WALL PAINT			MATCH EXISTING	KITCHEN, PANTRY, DINNING AREA	EXTERIOR CMU INFILL SHALL BE PAINTED TO MATCH EXISTING
PT-2	WALL PAINT			MATCH EXISTING	HALLWAY, RESTROOMS	EXTERIOR CMU INFILL SHALL BE PAINTED TO MATCH EXISTING
SST-1	STAINLESS STEEL WALL PANEL	WATERLOO PANELING	96" X 48" STAINLESS STEEL WALL PANEL	304 STAINLESS / SILVER	KITCHEN	20 GA.
<b>FLOOR</b>						
LVT-1	LUXURY VINYL TILE	MANNINGTON COMMERCIAL	ACCESS - WOOD - 5.91" X 39.37"	SHIBORI JASMINE	DINNING AREA	
LVT-2	LUXURY VINYL TILE	MANNINGTON COMMERCIAL	ACCESS - STONE - 17.7" X 17.7" LVT	LINEAR STONE SHALE	HALLWAY	
PFT-1	PORCELAIN FLOOR TILE	CROSSVILLE INC.	BLUESTONE PORCELAIN FIELD TILE - 6" X 6"	VERMONT BLACK	KITCHEN, PANTRY	
<b>COUNTERTOP</b>						
SS-1	SOLID SURFACE COUNTERTOP	CORIAN QUARTZ	-	COARSE CARRARA	KITCHEN, PANTRY	
<b>CEILING</b>						
SUSP WR/MR GYP BD	SUSPENDED WATER RESISTANT / MOLD RESISTANT GYPSUM BOARD					
<b>BASE</b>						
RB-1	RESILIENT BASE	MANNINGTON COMMERCIAL	BURKEBASE TYPE TP		DINNING AREA, HALLWAY	
TB-1	TILE BASE	CROSSVILLE INC.	BLUESTONE PORCELAIN COVE BASE TILE - 6" X 12"	VERMONT BLACK	KITCHEN, PANTRY	

### ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FIN	BASE		WALLS				CEILING			REMARKS
			MATL	HEIGHT	NORTH FIN	EAST FIN	SOUTH FIN	WEST FIN	MATL	FIN	HEIGHT	
100	HALLWAY	LVT-2	RB-1	6"	PT-2	PT-2	PT-2	PT-2	-	-	-	-
101	DINING AREA	LVT-1	RB-1	6"	PT-1	PT-1	PT-1	PT-1	EXPOSED	-	-	-
102	KITCHEN	PFT-1	TB-1	6"	CWT-1 / PT-1	CWT-1 / PT-1	CWT-1 / PT-1	CWT-1 / PT-1	SUSP MRWR GYP BD	PT-1	8'-6" AFF	CWT-1 FINISH FROM FIN FLR TO 5'-6" AFF. PAINT FINISH FROM 5'-6" TO CLG AS OCCURS
103	PANTRY	PFT-1	TB-1	6"	PT-1	PT-1	PT-1	PT-1	EXPOSED	-	-	-
104	WATCH / ALARM ROOM	-	-	-	-	-	-	-	-	-	-	-
105	ELEC	-	-	-	-	-	-	-	-	-	-	-
106	MEN'S RESTROOM	-	-	-	PT-2	PT-2	PT-2	PT-2	EXPOSED	-	-	-
107	FAMILY RESTROOM	-	-	-	PT-2	PT-2	PT-2	PT-2	EXPOSED	-	-	-
108	APPARATUS BAY	-	-	-	-	-	-	-	EXPOSED	-	-	-
109	MAINTENANCE BAY	-	-	-	-	-	-	-	EXPOSED	-	-	-

### FINISH AND MATERIAL NOTES:

- ALL FINISHES SUBJECT TO APPROVAL. SUBMIT PRODUCT DATA PER SPECIFICATIONS

DSGN.	DRWN.	CHKD.	APPD.
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JV/MM	MM	JV	EE
-------	----	----	----

### KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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## CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

### PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**  
  
AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

### PROJECT NO.:

**CO4420-33**

### SHEET TITLE:

## MATERIAL & FINISH SCHEDULE

DATE : 01 MAY 2024

SHEET :

26 OF 57 SHEETS

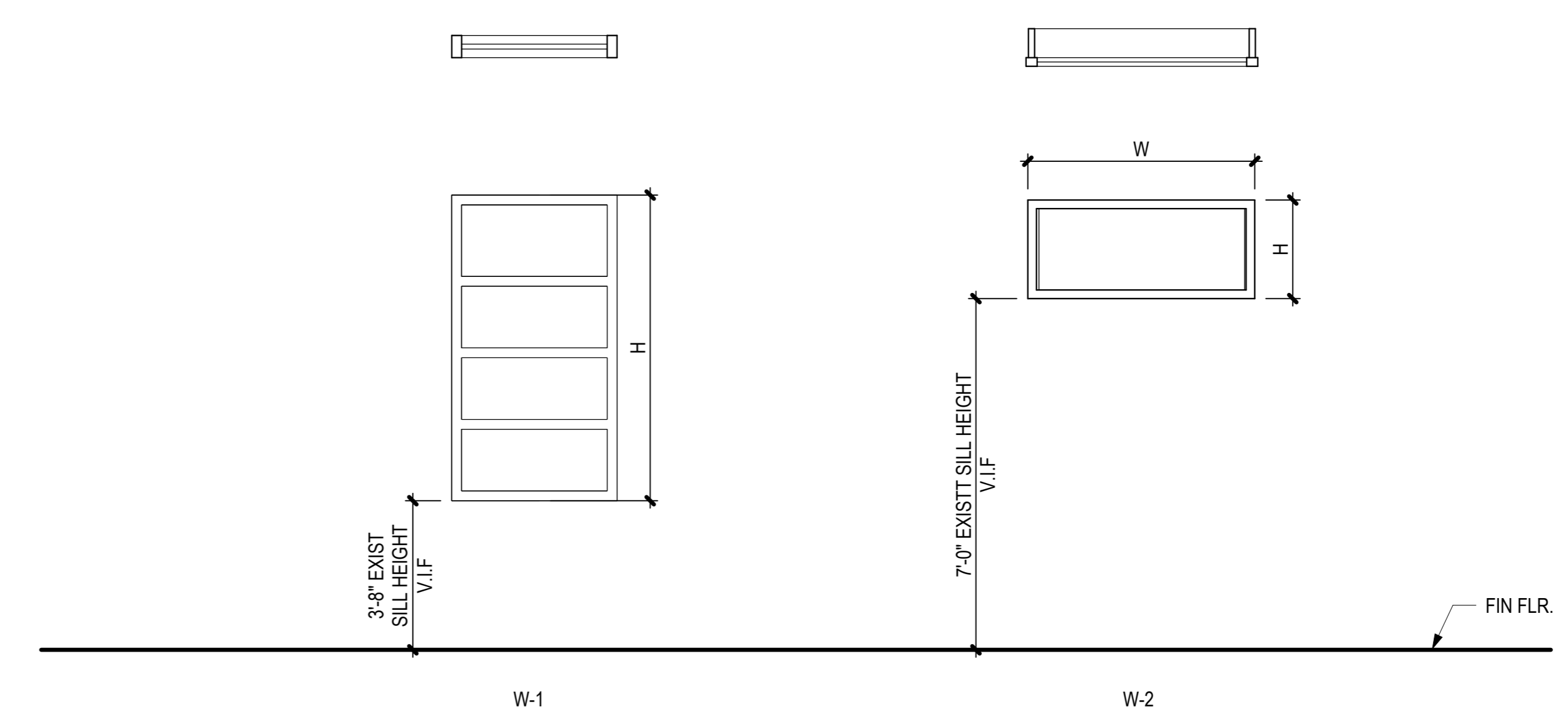
DWG. NO.

**A-601**

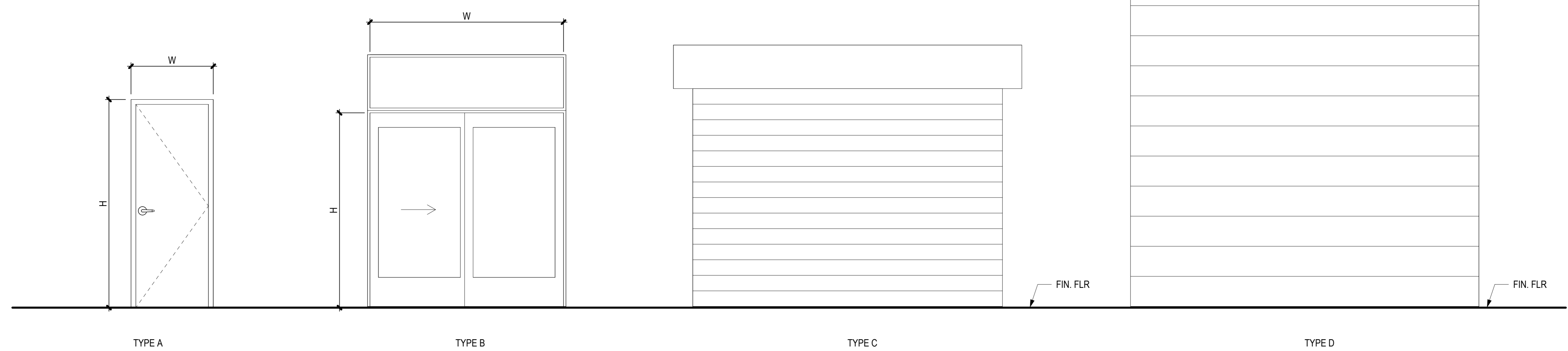
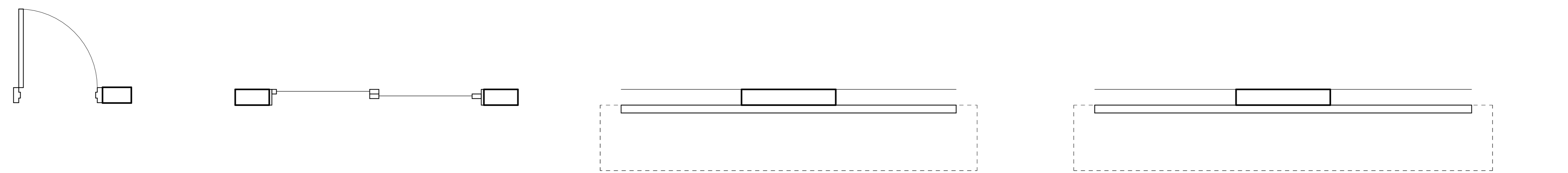


WINDOW SCHEDULE									
MARK	TYPE	W	H	OPERATION	Glazing Type	WDW HEAD DTL	WDW JAMB DTL	WDW SILL DTL	
101	W-1	2' - 9 1/2"	5' - 2"						
102	W-2	3' - 0"	1' - 8"						
103	W-3	3' - 0"	1' - 8"						

DOOR SCHEDULE															
DOOR OR BORROWED LITE		DOOR				FRAME			DETAILS						
MARK	NAME	DOOR TYPE	WIDTH	HEIGHT	MAT	FINISH	TYPE	MAT	FINISH	GLAZING TYPE	FIRE RATING (MINUTES)	HEAD	JAMB	SILL	HARDWARE SET
100.1	DINING AREA	B	6' - 8"	6' - 8"	ALUM	ANODIZED									
100.2	DINING AREA	B	6' - 8"	6' - 8"	ALUM	ANODIZED									
100.3	PANTRY	A	2' - 6"	7' - 0"	HM	PAINT		HM	PAINT		20				
101.1	MAINTENANCE BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.2	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.3	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.4	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.5	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.6	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.7	APPARATUS BAY	C	12' - 0"	14' - 6"	ALUM	MILL FINISH									MANUF
101.8	APPARATUS BAY	D	10' - 8"	7' - 6"	ALUM	MILL FINISH									MANUF



**WINDOW TYPES**



**DOOR TYPES**



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JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
<b>CONSTRUCTION DOCUMENTS</b>		
MAY 2024 DATE		
<b>PROJECT TITLE :</b>		
<b>JRF ARFF STATION RENOVATIONS</b>		
AT KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII		
<b>PROJECT NO.:</b>		
<b>CO4420-33</b>		
<b>SHEET TITLE:</b>		
<b>DOOR &amp; WINDOW SCHEDULE</b>		
<b>DATE :</b>	<b>DWG. NO.</b>	
01 MAY 2024	A-602	
<b>SHEET :</b>		
27 OF 57 SHEETS		





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**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

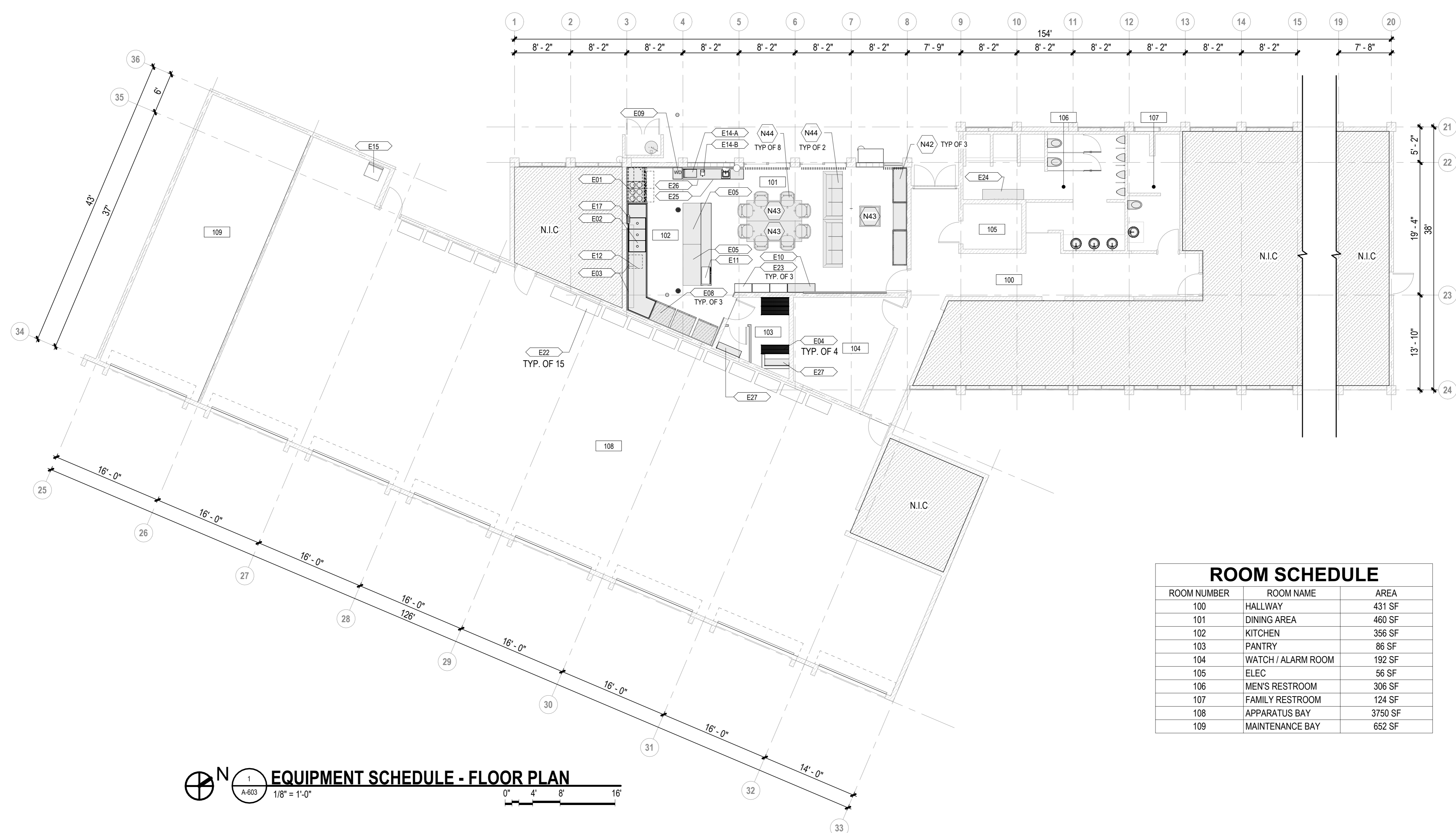
PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**EQUIPMENT SCHEDULE**

DATE :	DWG. NO.
01 MAY 2024	<b>A-603</b>
SHEET :	
28 OF 57 SHEETS	



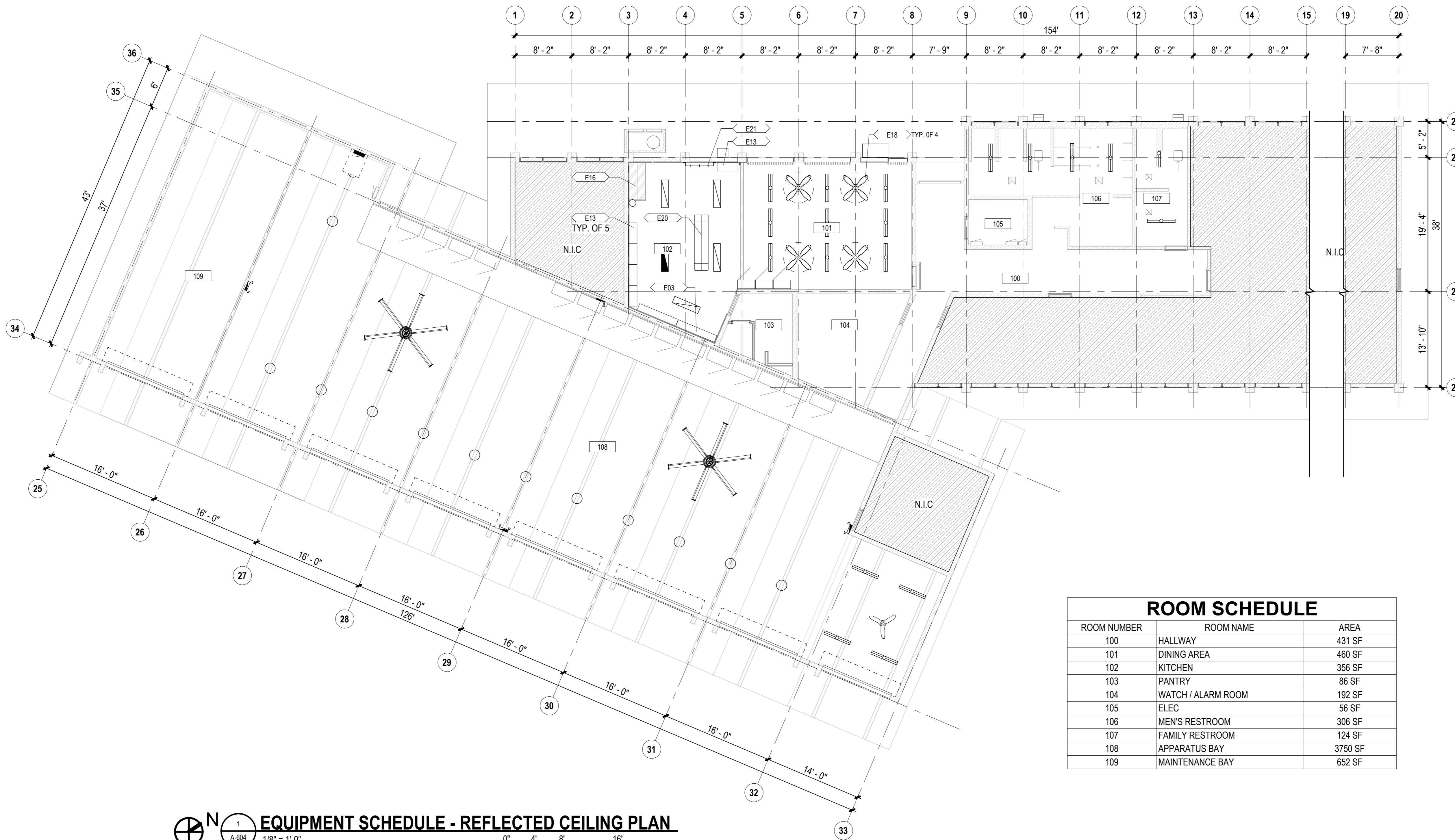
ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF
109	MAINTENANCE BAY	652 SF

**EQUIPMENT SCHEDULE - FLOOR PLAN**  
1  
A-603  
1/8" = 1'-0"  
0' 4' 8' 16'

EQUIPMENT SCHEDULE				EQUIPMENT SCHEDULE			
EQUIPMENT CODE	DESCRIPTION	COUNT	REMARKS	EQUIPMENT CODE	DESCRIPTION	COUNT	REMARKS
E01	RANGE	1	60" GAS RANGE - 6 OPEN BURNERS / 24" GRIDDLE	E17	PAPER TOWEL DISPENSER	1	EXISTING - UNINSTALL, STORE AND REINSTALL
E02	3 COMPARTMENT SINK	1	CUSTOM THREE COMPARTMENT SINK W/ TWO DRAINBOARDS	E20	CEILING MOUNT POT RACK	1	STAINLESS STEEL - 8' LENGTH
E03	WALL SHELF	2	EXISTING - UNINSTALL, STORE AND REINSTALL	E22	APPARATUS STORAGE CABINET	15	EXISTING - PROTECT IN PLACE
E04	SLIDING STORAGE SHELVES	4	48"W X 98"L X 74"H OVERALL DIM - 3 SHELF SYSTEM	E23	MOBILE PANTRY CABINET	3	STAINLESS STEEL - 15"W X 30"D X 78"H
E05	STAINLESS STEEL TABLE	3	EXISTING - UNINSTALL, STORE AND REINSTALL	E24	RESTROOM CUBBY	1	EXISTING - PROTECT IN PLACE
E08	REFRIGERATOR - SIDE FREEZER	3	EXISTING - PROTECT IN PLACE	E25	BASE CABINET - 4 DRAWERS	3	STAINLESS STEEL - 4 DRAWER BASE CABINET
E09	WATER DISPENSER	1	EXISTING - UNINSTALL, STORE AND REINSTALL	E26	BASE CABINET - DOUBLE DOOR & 2 DRAWERS	1	STAINLESS STEEL - DOUBLE DOOR & 2 DRAWER BASE CABINET
E10	DISH CABINET	2	STAINLESS STEEL - 4' LENGTH	E27	STAINLESS STEEL WALL MOUNTED STORAGE CABINET	8	STAINLESS STEEL - 43" X 12"
E11	MICROWAVE	1	EXISTING - UNINSTALL, STORE AND REINSTALL				
E12	UNDERCOUNTER DISHWASHER	1	ADA COMPLIANT				
E14-A	COFFEE MACHINE	1	EXISTING - UNINSTALL, STORE AND REINSTALL				
E14-B	KURIG COFFEE MAKER	1	EXISTING - UNINSTALL, STORE AND REINSTALL				
E15	DRYER	1	EXISTING - PROTECT IN PLACE				

KEYNOTES	
N42	RELOCATE EXISTING FURNITURE AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N43	RELOCATE EXISTING TABLE AS INDICATED - REFER TO EQUIPMENT SCHEDULE
N44	RELOCATE EXISTING SEATING AS INDICATED - REFER TO EQUIPMENT SCHEDULE





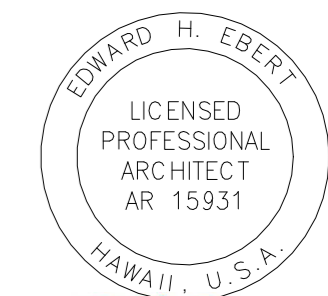
**EQUIPMENT SCHEDULE - REFLECTED CEILING PLAN**  
 1/8" = 1'-0"  
 0' 4' 8' 16'

ROOM SCHEDULE		
ROOM NUMBER	ROOM NAME	AREA
100	HALLWAY	431 SF
101	DINING AREA	460 SF
102	KITCHEN	356 SF
103	PANTRY	86 SF
104	WATCH / ALARM ROOM	192 SF
105	ELEC	56 SF
106	MEN'S RESTROOM	306 SF
107	FAMILY RESTROOM	124 SF
108	APPARATUS BAY	3750 SF
109	MAINTENANCE BAY	652 SF

EQUIPMENT SCHEDULE			
EQUIPMENT CODE	DESCRIPTION	COUNT	REMARKS
E03	WALL SHELF	2	EXISTING - UNINSTALL, STORE AND REINSTALL
E13	STAINLESS STEEL WALL MOUNTED CABINET - SLIDING DOOR	6	STAINLESS STEEL - 15D" X 36"W SLIDING DOOR
E16	KITCHEN HOOD	1	EXISTING - PROTECT IN PLACE
E18	CEILING FAN	4	
E20	CEILING MOUNT POT RACK	1	STAINLESS STEEL - 8' LENGTH
E21	WALL MOUNT POT RACK	1	STAINLESS STEEL - 4' LENGTH
E22	APPARATUS STORAGE CABINET	15	EXISTING - PROTECT IN PLACE
E23	MOBILE PANTRY CABINET	3	STAINLESS STEEL - 15"W X 30"D X 78"H



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 AIRPORTS



EDWARD H. EBERT  
 LICENSED PROFESSIONAL ARCHITECT  
 AR 15931  
 04-30-2026  
 License Expiration Date  
 This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
JV/MM	MM	JV	EE

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
 DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
 KALAELOA AIRPORT  
 KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**EQUIPMENT SCHEDULE - REFLECTED CEILING PLAN**

DATE :

01 MAY 2024

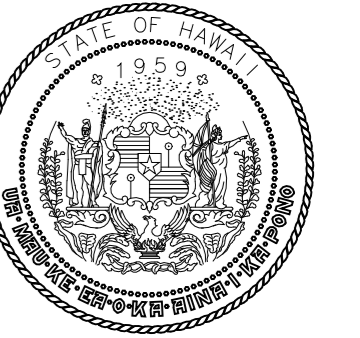
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29 OF 57 SHEETS

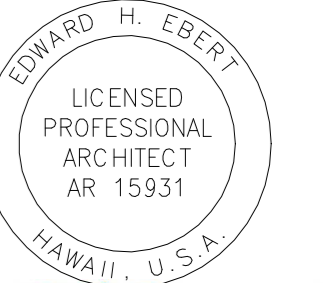
DWG. NO.

**A-604**





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



EDWARD H. EBERT  
LICENSED PROFESSIONAL ARCHITECT  
AR 15931  
04-30-2026  
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JVMM	MM	JV	EE

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**3D VIEWS OF KITCHEN**

DATE :

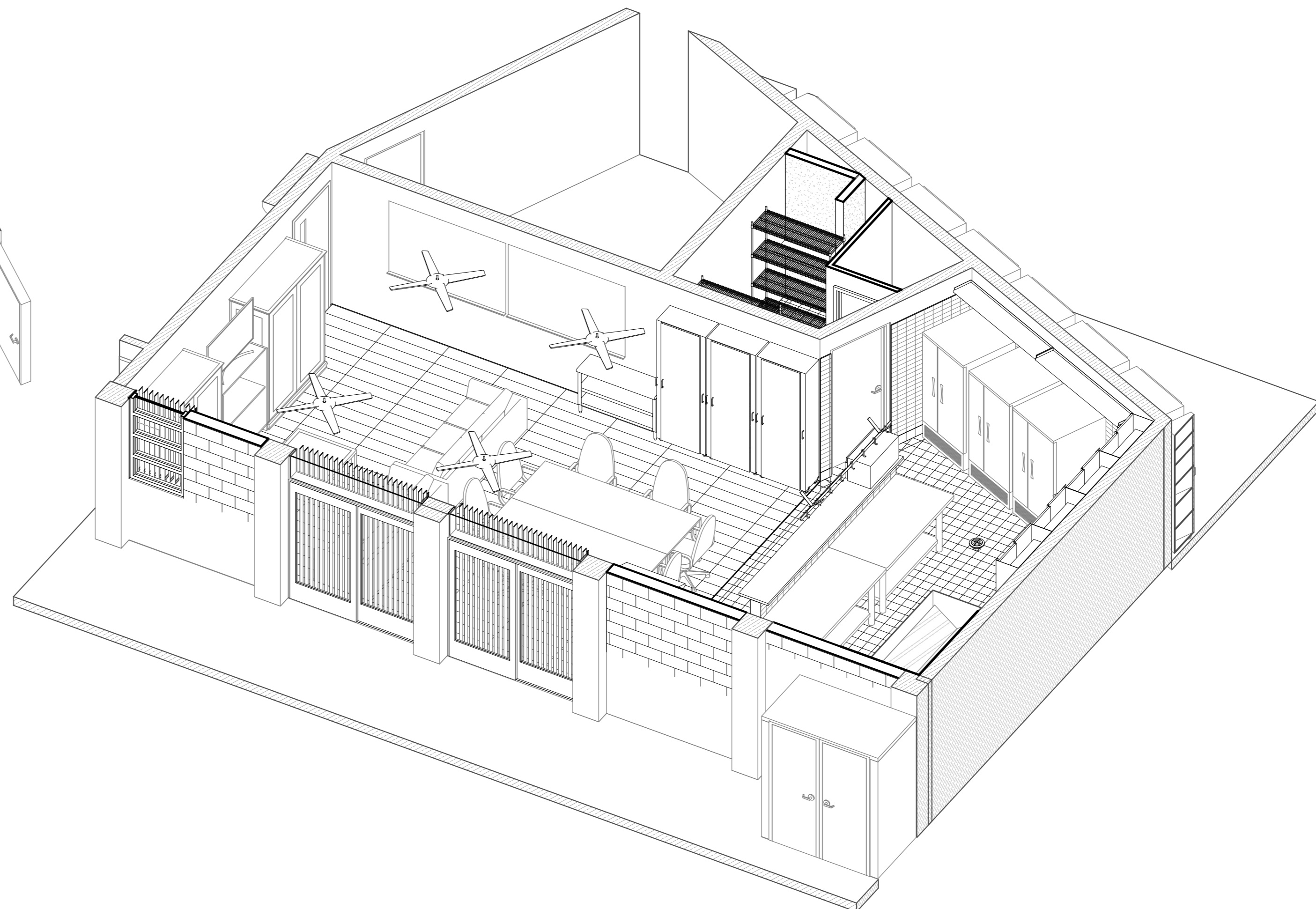
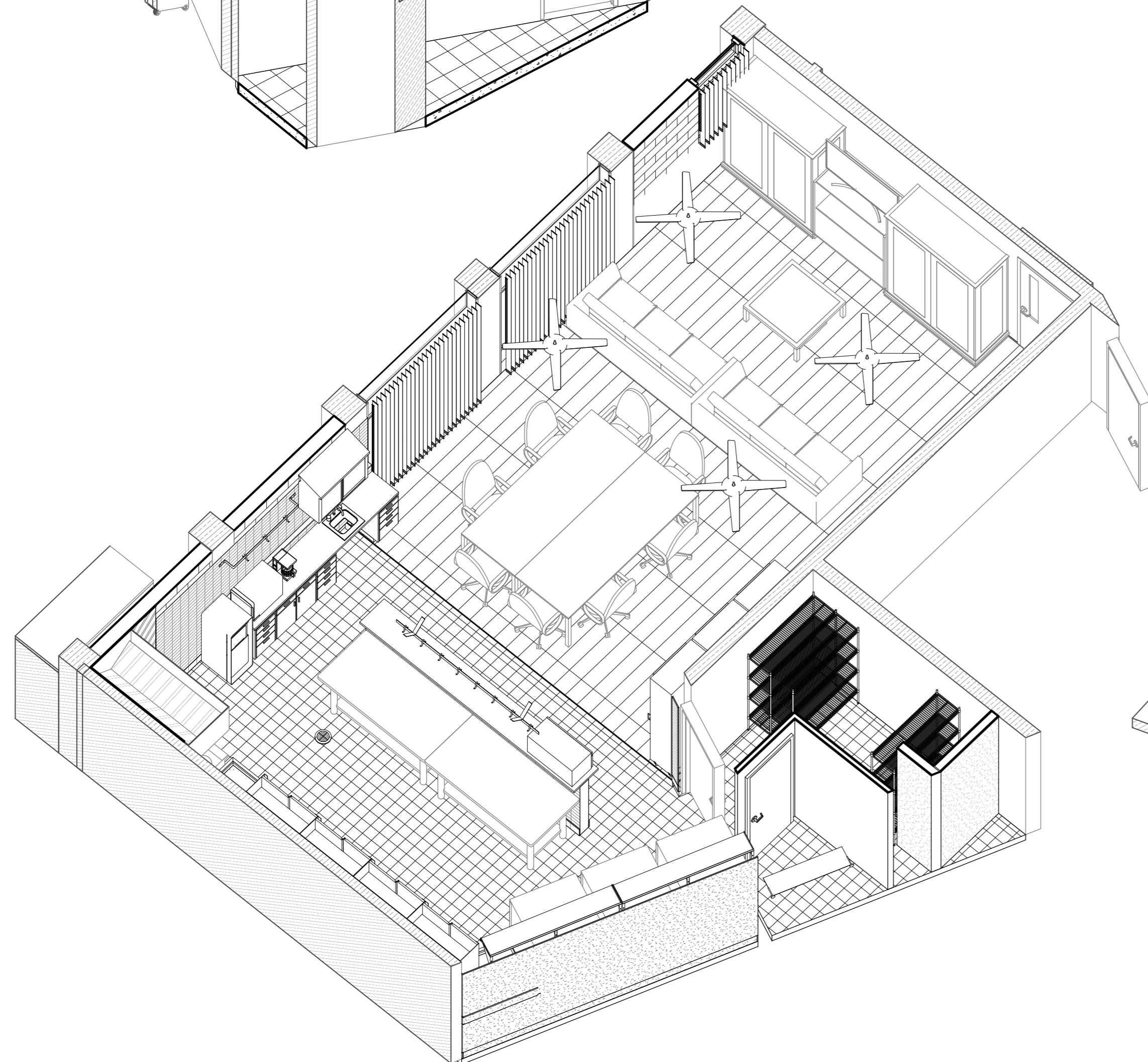
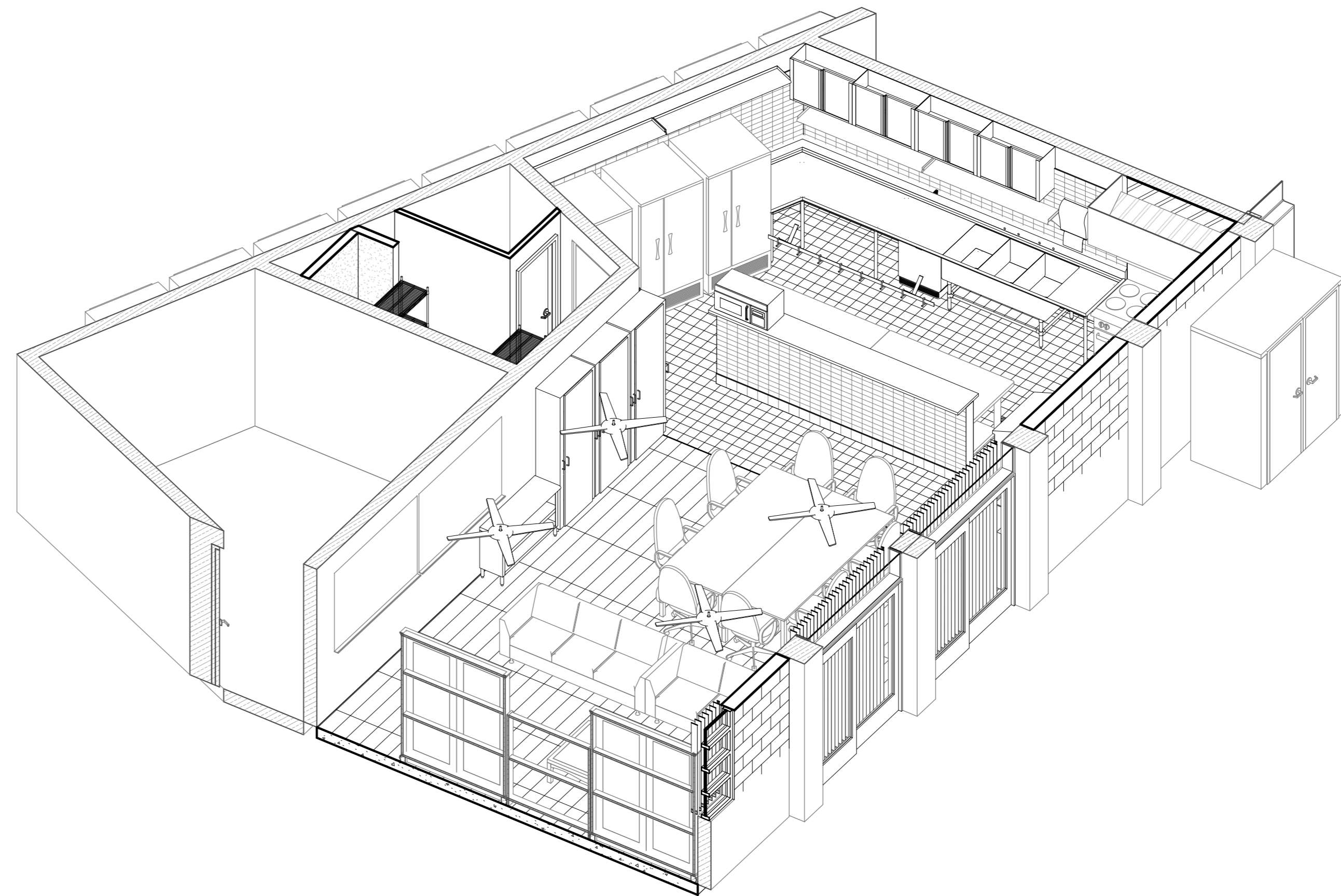
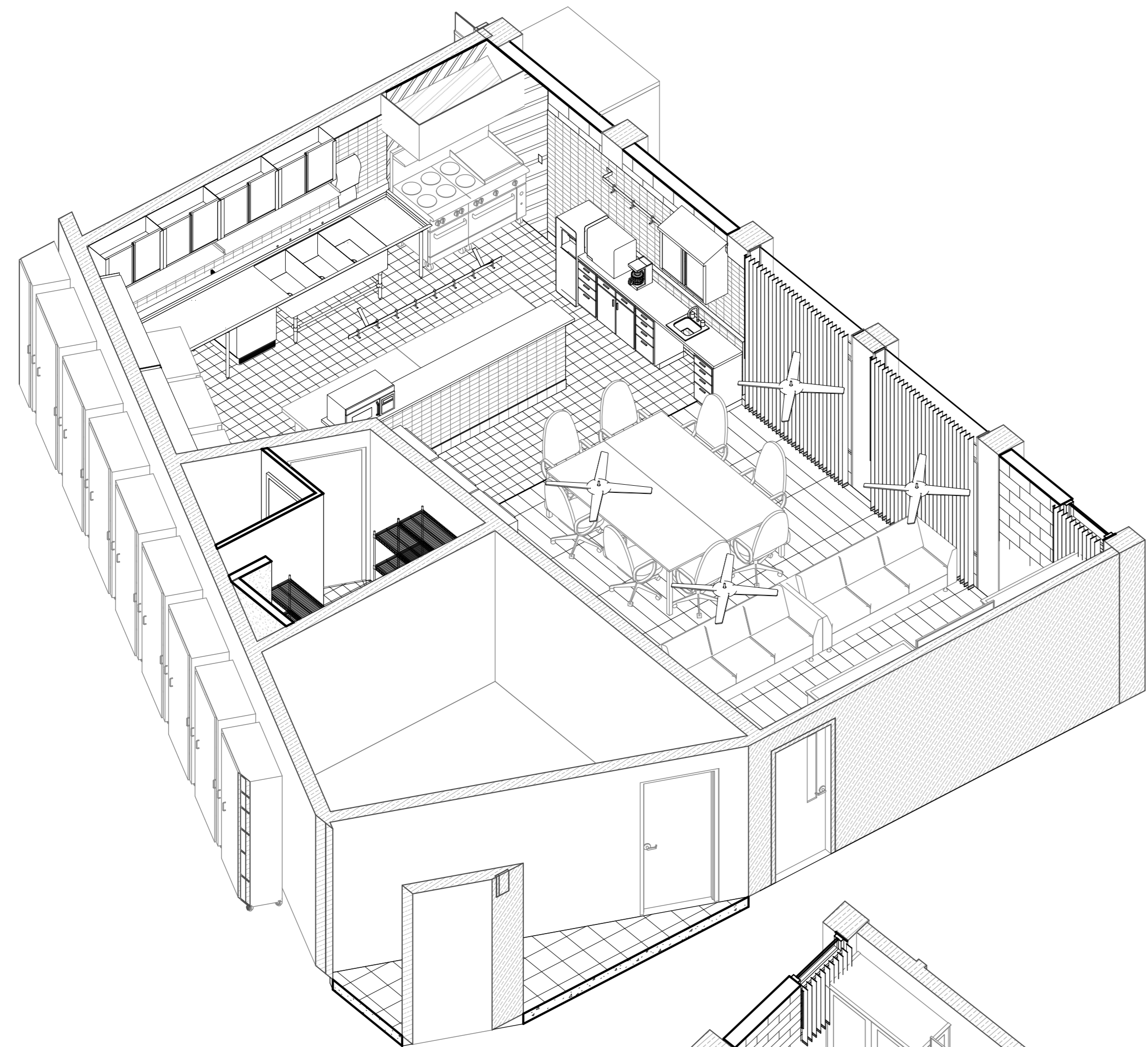
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30 OF 57 SHEETS

DWG. NO.

**A-900**





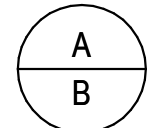





## GENERAL NOTES

- CONFORM TO ALL REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), UNIFORM PLUMBING CODE, UNIFORM FIRE CODE, NATIONAL ELECTRIC CODE, ENERGY CONSERVATION CODE, THE LATEST CITY & COUNTY OF HONOLULU/STATE OF HAWAII AMENDMENTS AND ORDINANCES, AND ALL OTHER AGENCIES HAVING JURISDICTION. THE AIR CONDITIONING AND VENTILATION SYSTEMS SHALL COMPLY WITH TITLE 11, ADMINISTRATIVE RULES DEPT. OF HEALTH, CHAPTER 39 - AIR CONDITIONING AND VENTILATION REQUIREMENTS. COMPLY WITH ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
- WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS UNLESS CONTRACT DOCUMENTS ARE MORE STRINGENT.
- ALL WORK SHOWN ON THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. BIDDERS SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DETAILS OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING THEIR BID. REASONABLE MODIFICATIONS IN LOCATION AND ARRANGEMENTS TO SUIT JOB CONDITIONS SHALL NOT CONSTITUTE BASIS FOR REQUESTING OF ADDITIONAL FUNDS FROM THE OWNER.
- PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, SUCCESSFUL BIDDER (CONTRACTOR) SHALL BE REQUIRED TO VERIFY ALL CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.
- REMOVE ALL UNUSED PIPING AND DUCTWORK UNLESS SPECIFICALLY INDICATED AS "ABANDON IN PLACE." ALL ABANDONED PIPING AND DUCTWORK SHALL BE CAPPED AT BOTH ENDS.
- ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
- ALL FASTENERS, SUPPORTS, HANGERS, SPRING ISOLATORS, AND MISCELLANEOUS STEEL ITEMS INCLUDING BUT NOT LIMITED TO BOLTS, NUTS, SCREWS, RODS, PLATES, AND ANGLES, ETC. SHALL BE GALVANIZED UNLESS OTHERWISE NOTED OR SPECIFIED.
- REFER TO PROJECT MANUAL (SPECIFICATIONS) FOR ADDITIONAL REQUIREMENTS. PLANS AND SPECIFICATIONS SHALL BE TAKEN TOGETHER. PROVIDE ALL WORK CALLED FOR IN EITHER.
- FURNISH ALL EQUIPMENT, MATERIALS, LABOR, TOOLS, ETC., REQUIRED FOR THE INSTALLATION OF THE COMPLETE AND OPERATING SYSTEM. ALL EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
- DO NOT ALLOW ANY WORK TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED AND APPROVED BY OWNER'S REPRESENTATIVE OR AUTHORITY HAVING JURISDICTION.
- THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS, AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER, THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER:  
  
A. GRAVITY FLOW; SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING.  
  
B. EQUIPMENT AND DUCTWORK.  
  
C. FORCED AND PRESSURE PIPING SUCH AS WATER, FIRE SPRINKLER, AND GAS PIPING.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS FOR MECHANICAL ITEMS REQUIRING SERVICING AND MAINTENANCE SUCH AS, BUT NOT LIMITED TO VOLUME DAMPERS, FIRE/SMOKE DAMPERS, FIRE DAMPERS, CONDENSATE DRAINS, VALVES, ETC. PROVIDE FIRE-RATED ACCESS PANELS WHERE REQUIRED. COORDINATE TYPE OF ACCESS PANEL WITH WALL OR CEILING CONTRACTOR. ACCESS PANELS SHALL BE 30"x30" MINIMUM UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS, NIPPLES OR FLANGES AT CONNECTION POINTS FOR ALL DISSIMILAR METALS.
- DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL OFFSETS IN PIPING. COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.
- ALL PENETRATIONS OF REQUIRED FIRE-RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER IBC.
- ALL PENETRATIONS OF REQUIRED FIRE-RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL AS REQUIRED AND IN ACCORDANCE WITH ASTM E 814, FM P7825, AND UL 1479.
- NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE ARCHITECT.
- PAINT ALL EXPOSED PIPING AND/OR DUCTWORK TO MATCH SURROUNDING COLOR. PROVIDE ESCUTCHEONS WHERE EXPOSED PIPING PENETRATES FINISHED WALLS AND CEILINGS. PROVIDE PAINTED TRIM WHERE EXPOSED DUCTWORK PENETRATES FINISHED WALLS AND CEILINGS.
- INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR ONE (1) YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.

## AC&V NOTES

- EQUIPMENT, DUCTWORK AND PIPING SHOWN INDICATES GENERAL LAYOUT REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE SERVICE/ ACCESS SPACE REQUIREMENTS, ADDITIONAL OFFSETS, DROPS, RISES, ETC., REQUIRED TO FIT AVAILABLE SPACE AND AVOID LOCAL OBSTRUCTIONS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR, FIRE SPRINKLER CONTRACTOR, AND ELECTRICAL CONTRACTOR AND OFFSET HIS DUCTWORK AND PIPING TO FIT WORK FROM ALL DISCIPLINES IN SPACE AVAILABLE.
- FLEXIBLE CONNECTION SHALL BE PROVIDED BETWEEN DUCTWORK AND AIR HANDLING UNITS, FAN COIL UNITS, SUPPLY AND EXHAUST FANS, AND OTHER SIMILAR AIR MOVING EQUIPMENT.
- ALL DUCT DIMENSIONS ARE INSIDE DIMENSIONS: LAYOUTS AND INSTALLATION SHALL ACCOUNT FOR DUCT WRAP THICKNESS OR LINER INSULATION THICKNESS, SEE SPECS.
- TURNING VANES AND EXTRACTORS SHALL BE INSTALLED IN ALL CHANGES IN DIRECTION OF AIR FLOW.
- SPLITTER DAMPERS SHALL BE INSTALLED IN DUCT TEES WHERE BRANCH DUCTS DO NOT HAVE THE SAME AIR FLOW CAPACITIES. VOLUME DAMPERS SHALL BE PROVIDED TO BALANCE AIR IN ALL DUCT BRANCHES IN ACCORDANCE WITH ENERGY CONSERVATION CODE.
- PROVIDE FIRE DAMPERS AND/OR FIRE/SMOKE DAMPERS FOR ALL FLOOR PENETRATIONS OR PENETRATIONS THROUGH FIRE-RATED WALLS PER INTERNATIONAL BUILDING CODE REQUIREMENTS. FIRE DAMPERS SHALL BE 90% OUT OF AIR STREAM. PROVIDE DUCT ACCESS PANELS FOR FIRE DAMPERS AND FIRE/SMOKE DAMPERS WHERE REQUIRED.
- FIRE DAMPERS SHALL BE INSULATED WHEN LOCATED IN INSULATED SUPPLY AND RETURN AIR DUCTS. INSULATION SHALL BE IN ACCORDANCE WITH SMACNA. FIRE DAMPERS SHALL NOT BE INSULATED WHEN INSTALLED IN NON-INSULATED DUCTWORK.
- PROVIDE DUCTWORK REDUCER FITTINGS AT AIR DEVICE CONNECTIONS AS REQUIRED.
- ENTIRE HVAC SYSTEM SHALL HAVE SEISMIC RESTRAINTS INCLUDING HANGERS, VIBRATION ISOLATION, AND FLEXIBLE CONNECTIONS. REFER TO VIBRATION ISOLATION SCHEDULES AND DETAILS.
- ALL CONTROL WIRING SHALL BE PLACED IN CONDUIT AND SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. NO EMT ALLOWED FOR CONDUIT EXPOSED TO WEATHER.
- AIR CONDITIONING CONTRACTOR SHALL INSULATE ALL PIPING THAT COLLECTS CONDENSATE INCLUDING WASTE PIPE, ETC., FROM POINT OF CONNECTION TO TOP OF CONCRETE FLOOR SLAB ON GRADE. INSULATE FLOOR DRAIN, FLOOR SINK, AND/OR ROOF DRAIN BODIES EXPOSED TO AIR BELOW THE SLAB.
- ALL AIR CONDITIONING SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET.

## GENERAL LEGEND

SYMBOL	DESCRIPTION
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
 OR 	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
	EQUIPMENT IDENTIFICATION (REFER TO EQUIPMENT SCHEDULE)
	REVISION CLOUD AND REVISION NUMBER

## APPLICABLE CODES & STANDARDS



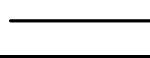
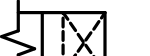
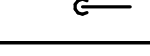
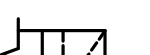
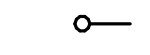
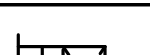

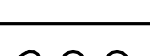
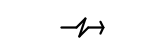

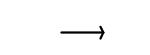

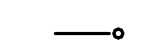

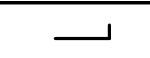
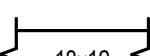


- BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU (INTERNATIONAL BUILDING CODE 2018 AS AMENDED\*)
- PLUMBING CODE OF THE CITY AND COUNTY OF HONOLULU (UNIFORM PLUMBING CODE 2018 AS AMENDED\*)
- BUILDING ENERGY CONSERVATION CODE OF THE CITY AND COUNTY OF HONOLULU (INTERNATIONAL ENERGY CONSERVATION CODE 2018 AS AMENDED\*)
- ASHRAE 62.1-2016, VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
- HAWAII ADMINISTRATIVE RULES CHAPTER 39 OF TITLE 11 - AIR CONDITIONING AND VENTILATING, 1983
- FIRE CODE OF THE CITY & COUNTY OF HONOLULU (NFPA 1, 2018 EDITION AS AMENDED\*)

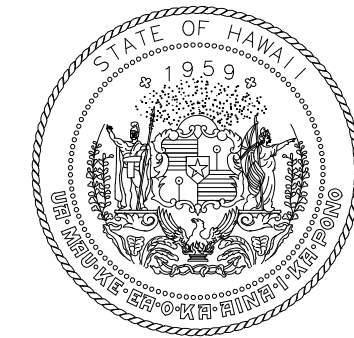
\* including all amendments adopted by the State of Hawaii and the City & County of Honolulu.

## ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
ARCH	ARCHITECT/ARCHITECTURAL	HVAC	HEATING, VENTILATION & AIR CONDITIONING
BHP	BRAKE HORSEPOWER	HVLS	HIGH VOLUME LOW SPEED
BLDG	BUILDING	HZ	HERTZ
BTU	BRITISH THERMAL UNIT	KW	KILOWATT
BTUH	BRITISH THERMAL UNIT PER HOUR	KWH	KILOWATT HOUR
CD	CONDENSATE DRAIN	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LBS	POUNDS
CONC	CONCRETE	MBH	THOUSANDS BTU PER HOUR
CONN	CONNECT OR CONNECTION	MECH	MECHANICAL
CONT	CONTINUATION	MIN	MINIMUM OR MINUTES
DB	DECIBEL	MISC	MISCELLANEOUS
DB	DRY BULB	MOC	MAXIMUM OVERCURRENT PROTECTION
Ø	DIAMETER OR PHASE	NTS	NOT TO SCALE
DEMO	DEMOLISH	PH OR φ	PHASE
DN	DOWN	PLBG	PLUMBING
DWG	DRAWING	POC	POINT OF CONNECTION
(E)	EXISTING	POR	POINT OF REMOVAL
EA	EACH	PSI	POUNDS PER SQUARE INCH
EA	EXHAUST AIR	PSIG	POUNDS PER SQUARE INCH GAUGE
EAR	EXHAUST AIR REGISTER	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RAR	RETURN AIR REGISTER
EDB	ENTERING DRY BULB	REV	REVISION(S)
EER	ENERGY EFFICIENCY RATIO	SA	SUPPLY AIR
EF	EXHAUST FAN	SF	SUPPLY FAN
EFF	EFFICIENCY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE	TYP	TYPICAL
ELEC	ELECTRIC OR ELECTRICAL	V	VENT OR VOLTS
ELEV	ELEVATION	VD	VOLUME DAMPER
ESP	EXTERNAL STATIC PRESSURE	W	WITH
EXH	EXHAUST	W/O	WITHOUT
EXIST	EXISTING	WH	WATER HEATER
F	FAHRENHEIT	WT	WEIGHT
FF	FINISH FLOOR	WAC	WINDOW AC
FLA	FULL LOAD AMPS		
FLR	FLOOR		
GAL	GALLON		

## MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DEMOLITION		EXHAUST DUCT TURNED UP
	EXISTING		SUPPLY DUCT TURNED DOWN
	PIPE DOWN		RETURN DUCT TURNED DOWN
	PIPE UP		EXHAUST DUCT TURNED DOWN
	THERMOSTAT		FLEXIBLE DUCT
	AIR FLOW (RETURN/EXHAUST)		CEILING DIFFUSER, FOUR WAY OR AS SHOWN (OPEN QUADRANT INDICATES THROW PATTERN)
	AIR FLOW (SUPPLY)		CEILING RETURN/EXHAUST
	BACKDRAFT DAMPER		WALL GRILLE/REGISTER
	VOLUME DAMPER		
	DUCT SIZE IN INCHES FIRST SIZE LISTED IS SIDE SHOWN		
	SUPPLY DUCT TURNED UP		
	RETURN DUCT TURNED UP		



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



04/30/2026  
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DSGN.	DRWN.	CHKD.	APPD.
TT	JA	NA	NA

## KEY PLAN / NOTES:

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JRF ARFF STATION  
RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

## PROJECT NO.:

CO4420-33

## SHEET TITLE:

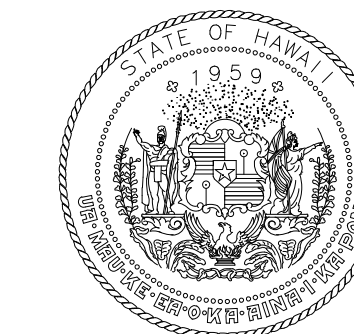
MECHANICAL  
LEGEND,  
ABBREVIATION AND  
NOTES

DATE :	DWG. NO.
01 MAY 2024	M-001
SHEET :	
31 OF 57 SHEETS	

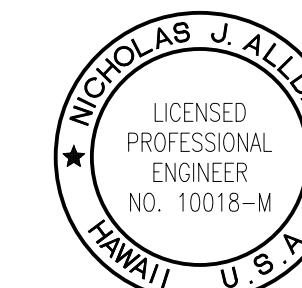


### DEMOLITION NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK
2. EXISTING WINDOW AC SHALL BE DEMOLISHED. PATCH AND REPAIR ALL PENETRATION OPENINGS TO MATCH ADJACENT SURFACE AS REQUIRED, COORDINATE WITH GENERAL CONTRACTOR.
3. REMOVE EXISTING EXHAUST FAN ON ROOF AND ASSOCIATED CONTROL WIRING.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Nicholas J. Allday*  
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RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

#### PROJECT NO.:

**CO4420-33**

#### SHEET TITLE:

**PARTIAL FLOOR  
MECH DEMO PLAN**

DATE :

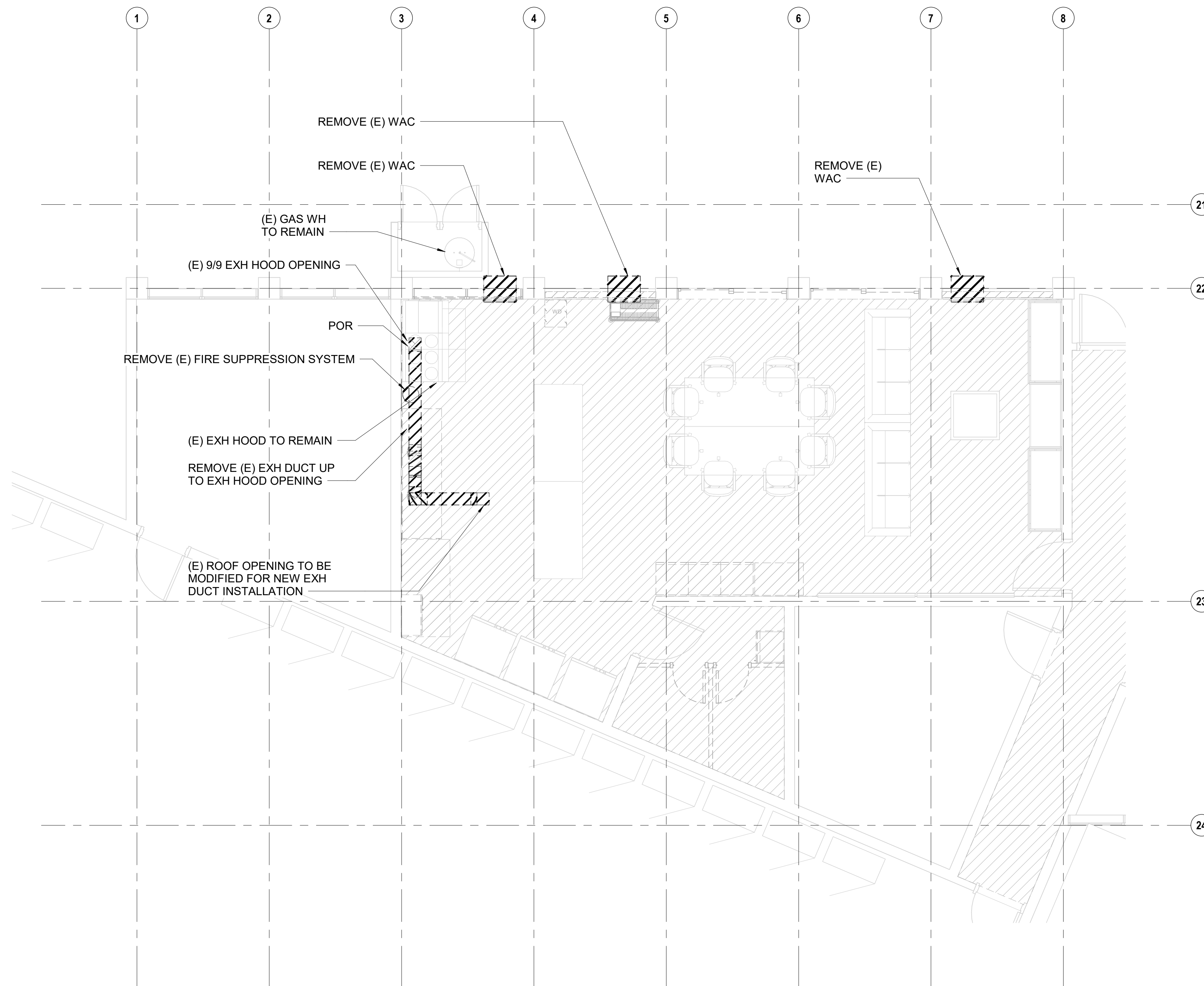
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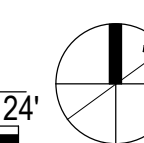
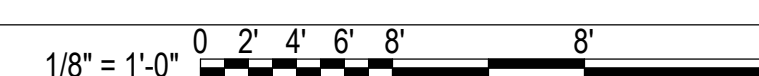
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**MD101**



### ENLARGED MECH DEMO PLAN

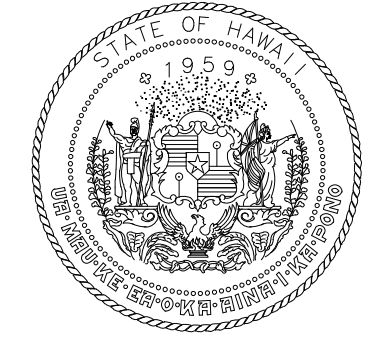
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MD101  
1/4" = 1'-0"





**DEMOLITION NOTES**

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Nicholas J. Allday*  
04/30/2026  
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**KEY PLAN / NOTES:**

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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

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**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**PARTIAL ROOF MECH DEMO PLAN**

DATE :

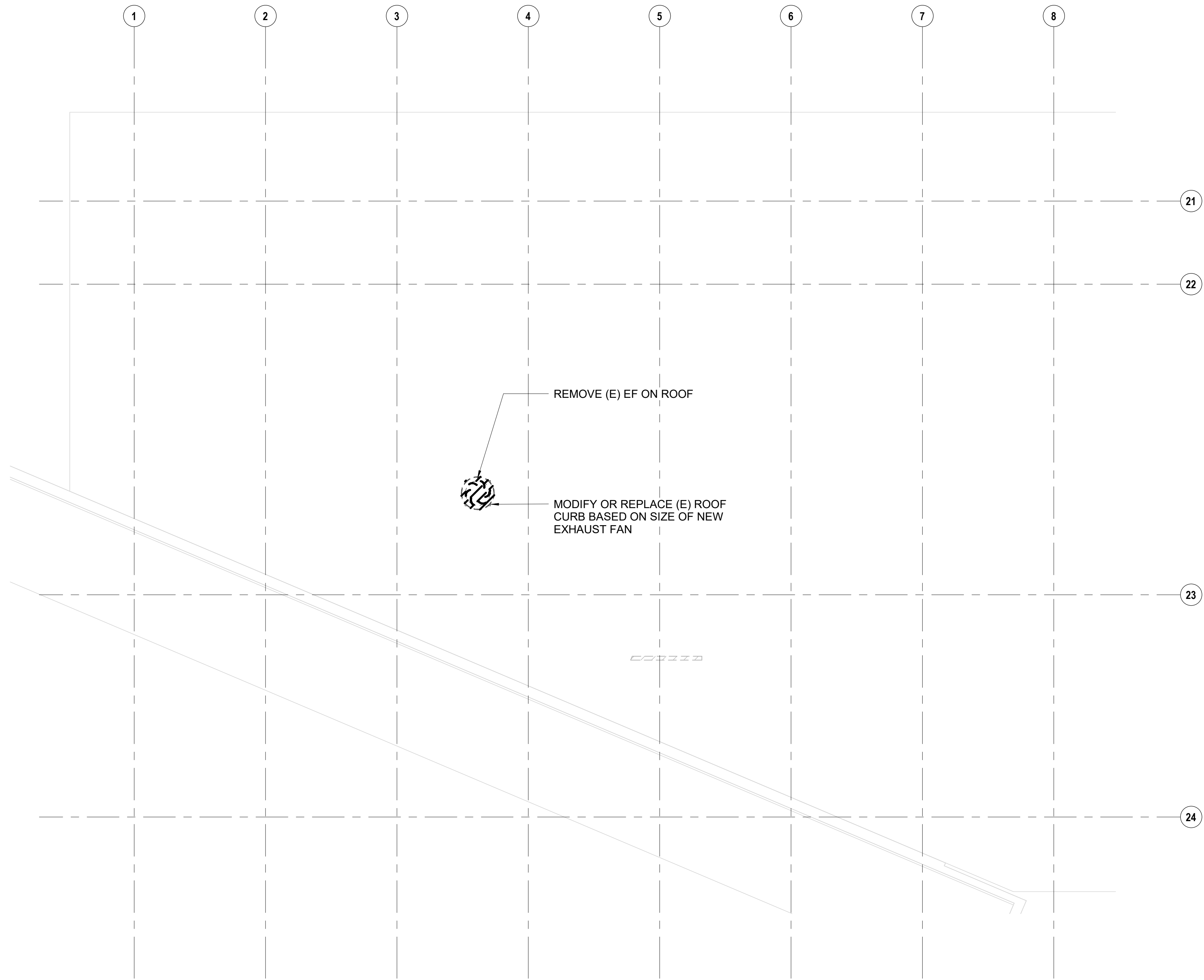
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33 OF 57 SHEETS

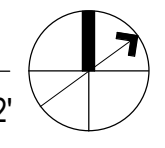
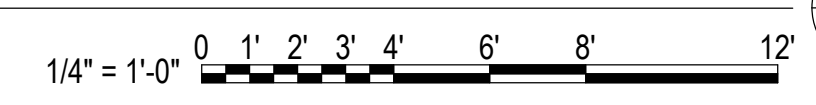
DWG. NO.

**MD102**



**PARTIAL ROOF MECH DEMO PLAN**

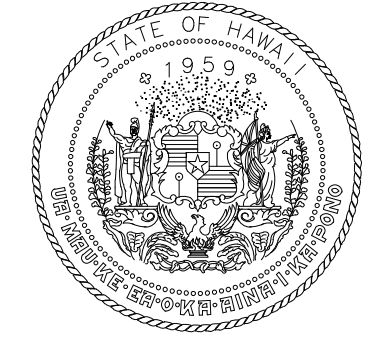
MD102 1/4" = 1'-0"





**NOTES**

1. PAINT EXPOSED EXHAUST DUCTWORK TO MATCH WALL AND CEILING.
2. PROVIDE NEW WALL SWITCH WITH CONTROL WIRING FOR KITCHEN HOOD EXHAUST FAN EF-3.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Nicholas J. Allday*  
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TT	JA	NA	NA

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

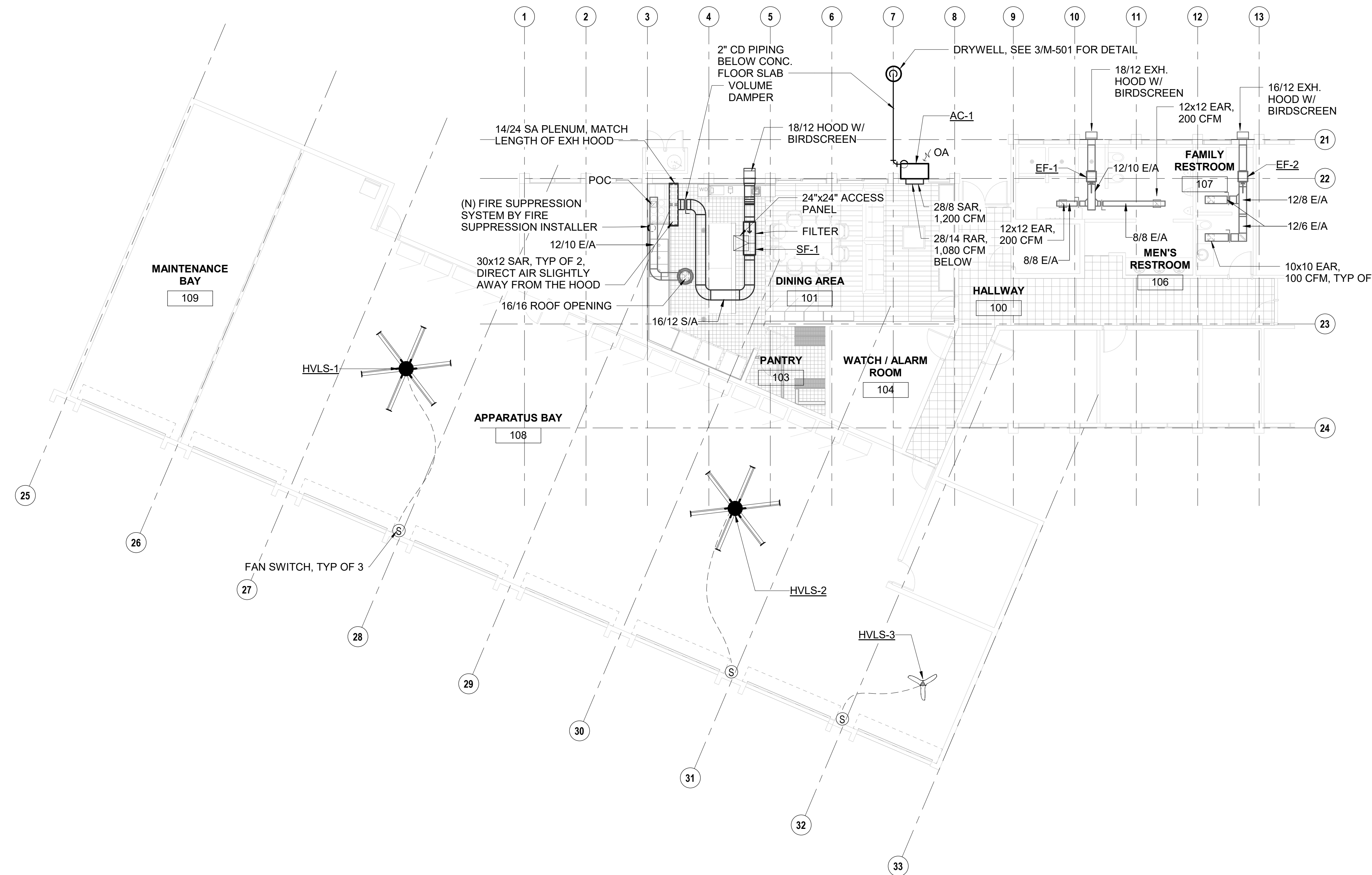
**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**MECHANICAL PLAN**

DATE :	01 MAY 2024	DWG. NO.	<b>M-101</b>
SHEET :			
34 OF 57 SHEETS			



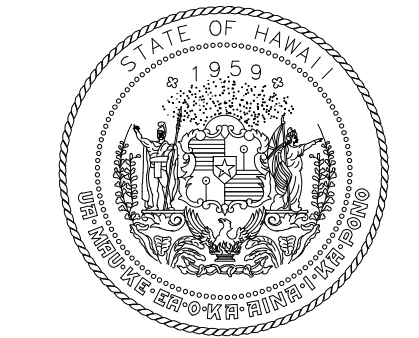
1 PARTIAL MECHANICAL PLAN  
M-101 1/8" = 1'-0"



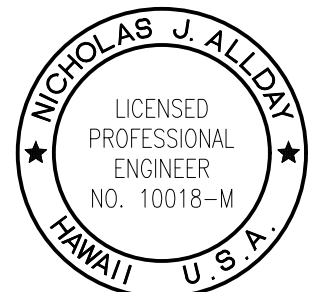


**NOTES**

1. PAINT EXPOSED EXHAUST DUCTWORK TO MATCH WALL AND CEILING.



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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

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**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**PARTIAL ROOF MECHANICAL PLAN**

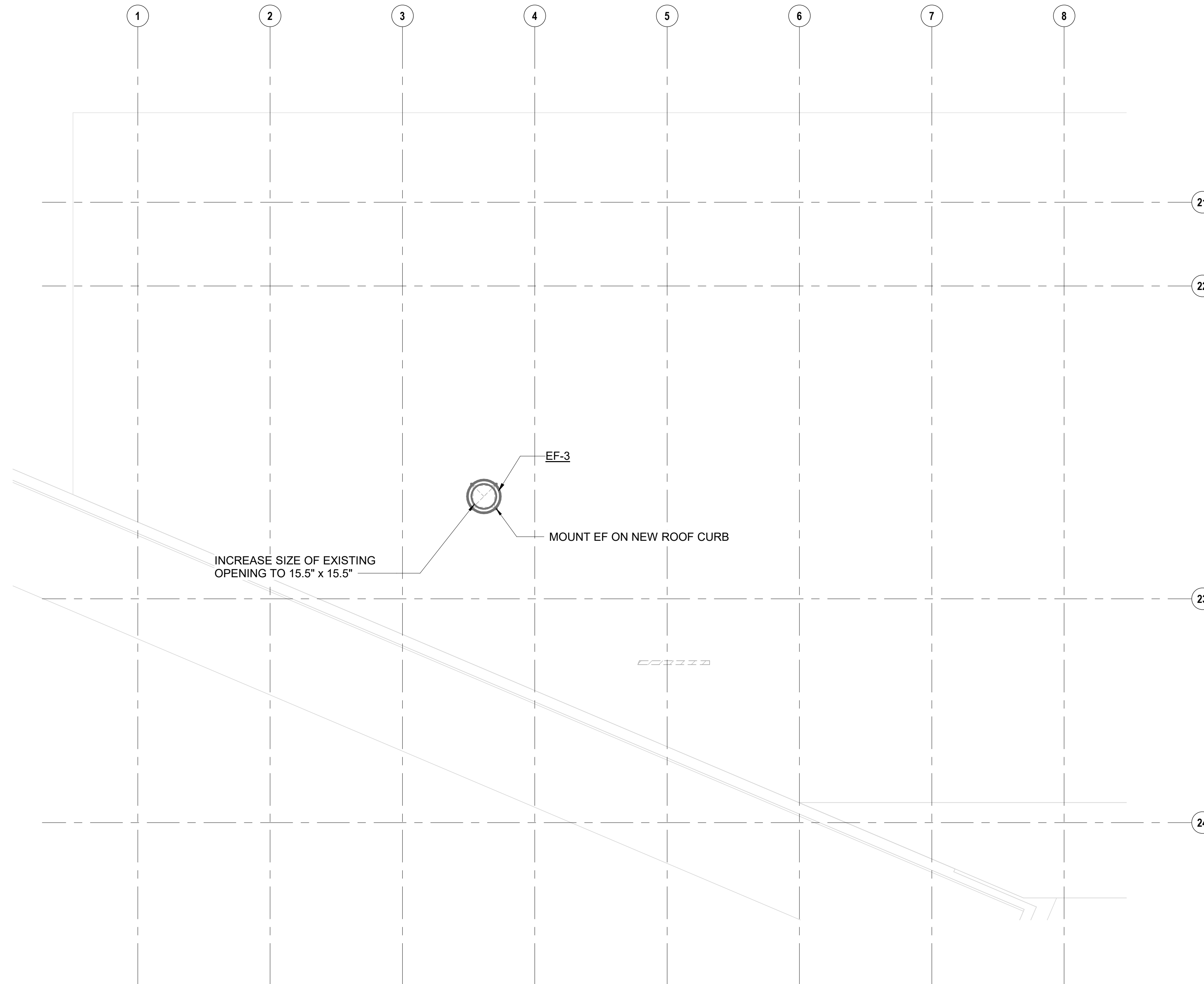
DATE : DWG. NO.

01 MAY 2024

SHEET :

35 OF 57 SHEETS

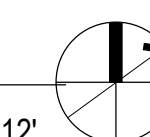
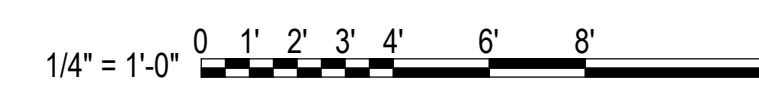
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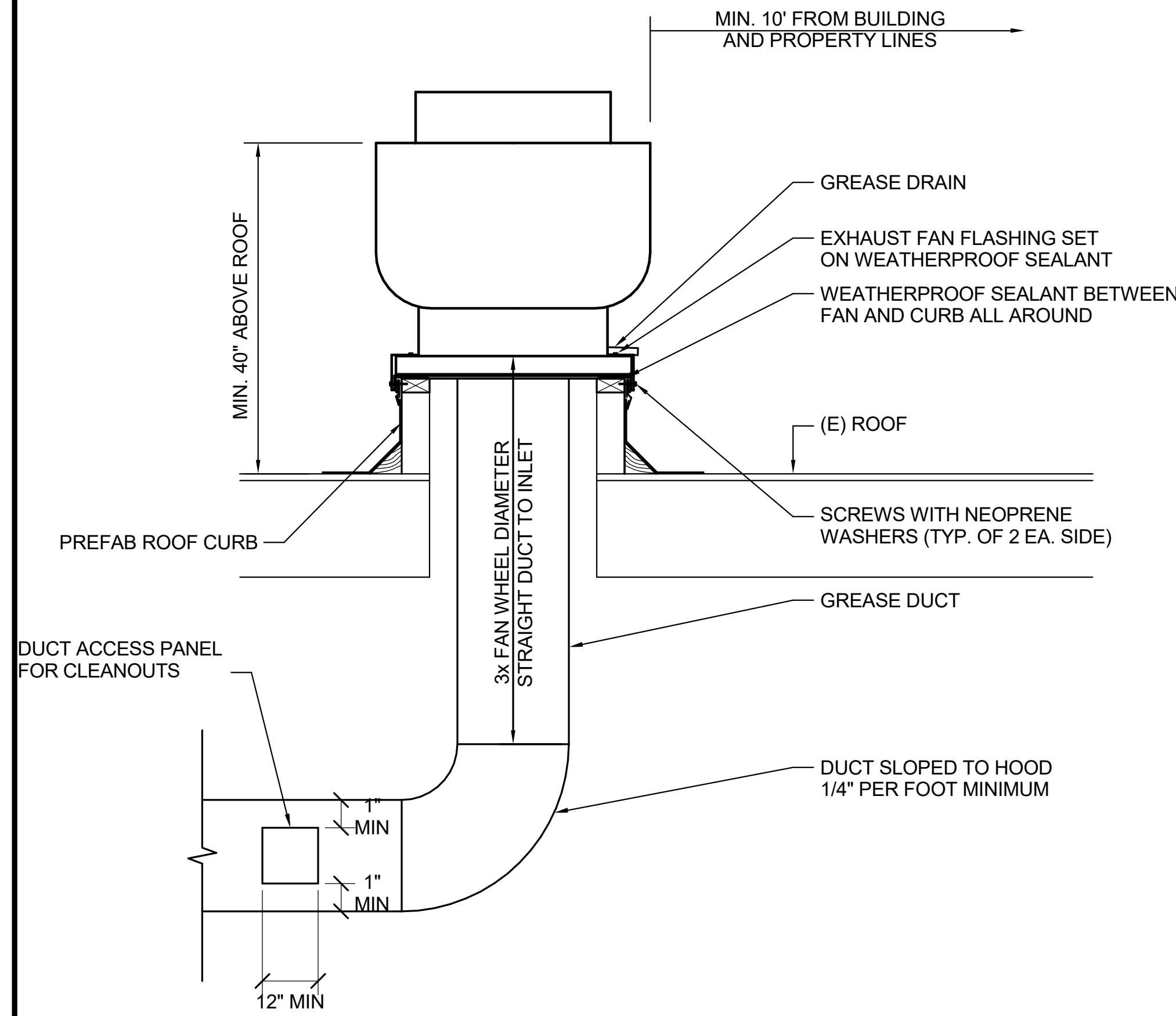
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M-102

**PARTIAL ROOF MECHANICAL PLAN**

1/4" = 1'-0"

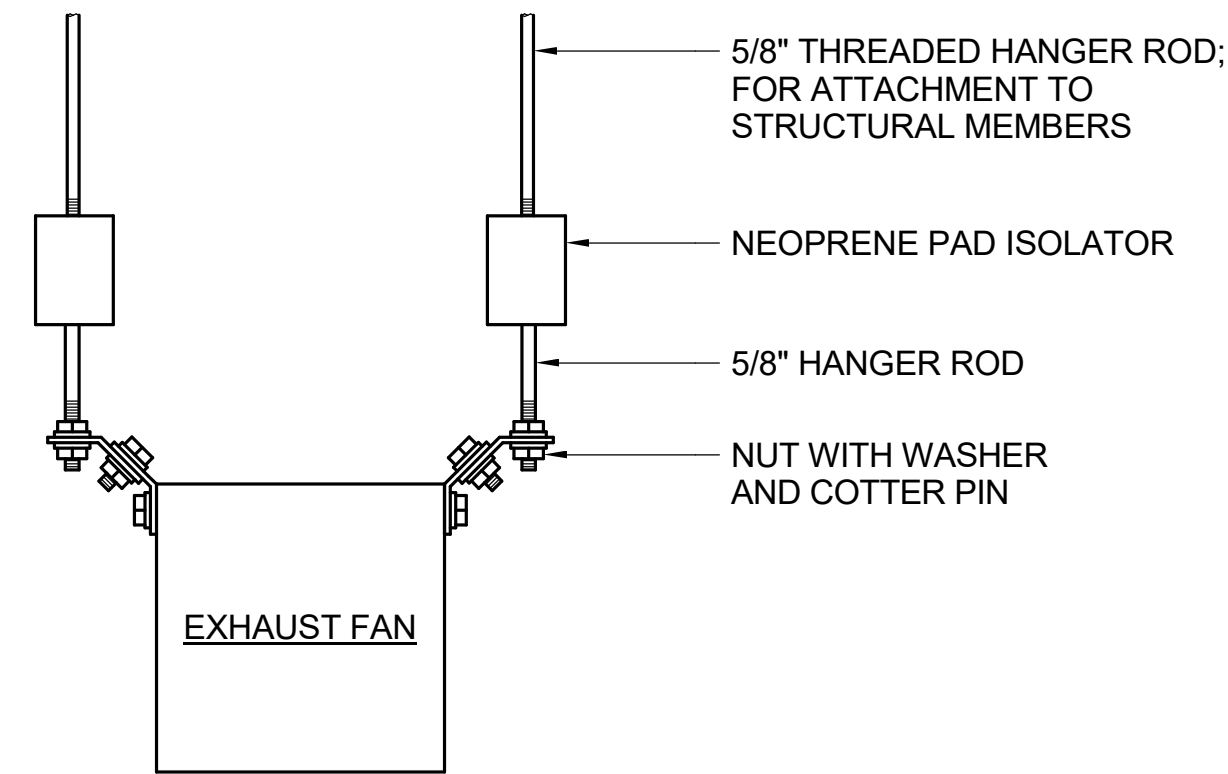




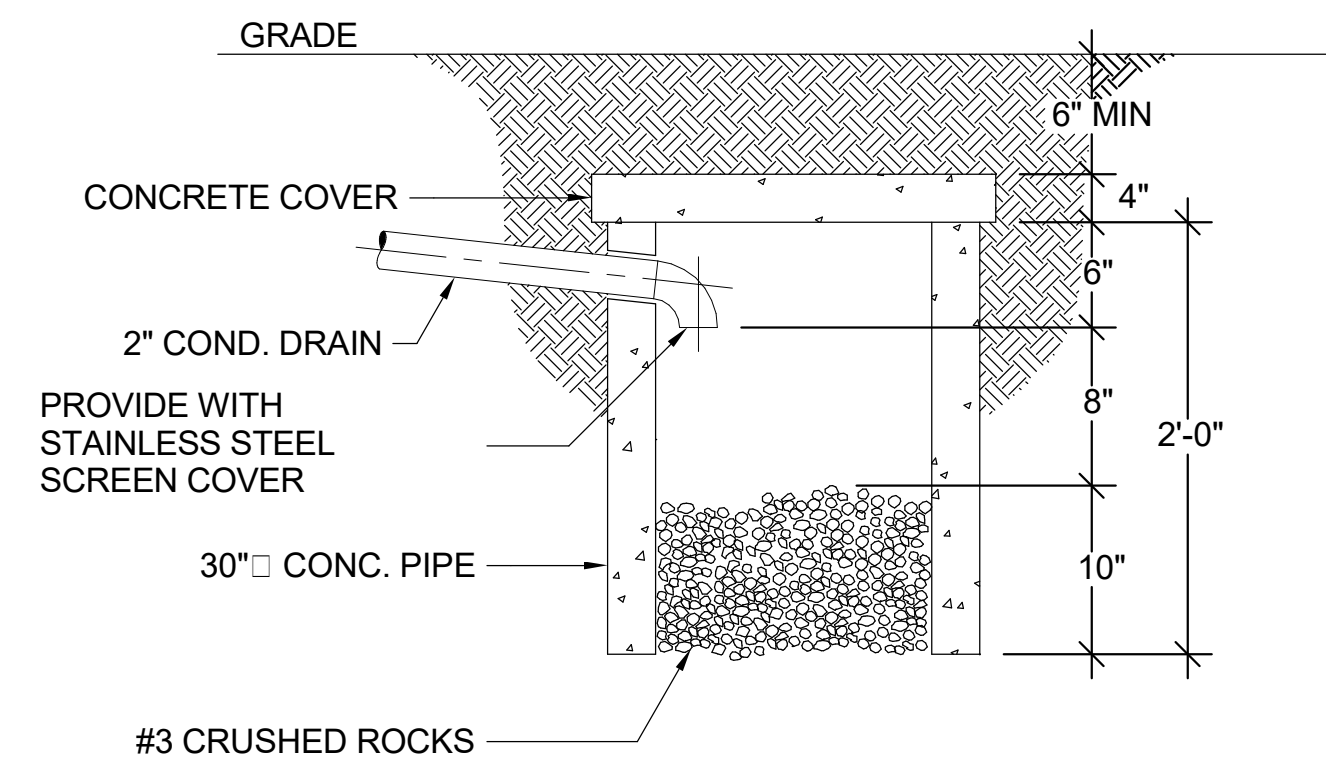


- NOTES:**
1. PROVIDE ROOF CURB AS REQUIRED. REPLACE DAMAGED FLASHING TO MATCH EXISTING FLASHING AT ROOF CURB. SEE ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS.
  2. ALL WORK SHALL COMPLY WITH NFPA-90A, NFPA-96, AND LOCAL CODE ORDINANCES.

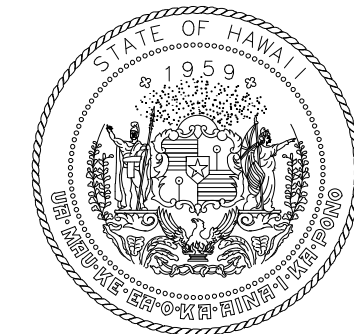
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M-501  
**KITCHEN EXHAUST FAN MOUNTING  
DETAIL**



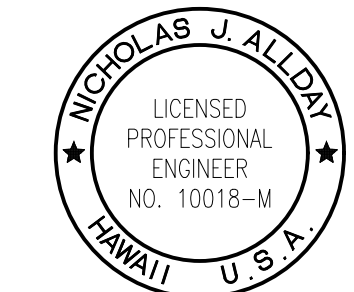
**2**  
M-501  
**INLINE EXHAUST FAN MOUNTING  
DETAIL**



**3**  
M-501  
**DRY WELL DETAIL**



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**CONSTRUCTION  
DOCUMENTS**

MAY 2024  
DATE

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**JRF ARFF STATION  
RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**MECHANICAL  
DETAILS**

DATE :

01 MAY 2024

SHEET :

36 OF 57 SHEETS

DWG. NO.

**M-501**



### FAN SCHEDULE

MARK	LOCATION	CFM	ESP (IN. WG.)	VOLTS	PH	HZ	WATTS	AMPS (MAX.)	SONES	UNIT WEIGHT	TYPE	DRIVE	BASIS OF DESIGN OR APPROVED EQUAL	REMARKS
EF-1	MEN RESTROOM	400	0.5	115	1	60	151	3.3	1.1	40	INLINE	DIRECT DRIVE	GREENHECK SQ-90-VG	INTERLOCK WITH LIGHT SWITCH
EF-2	FAMILY RESTROOM	200	0.5	115	1	60	50	0.56	1.4	26	INLINE	DIRECT DRIVE	GREENHECK SQ-80-VG	INTERLOCK WITH LIGHT SWITCH
EF-3	ON ROOF	1250	1.0	115	1	60	1/2 HP	6.4	15.8	85	UPBLAST	BELT DRIVE	GREENHECK CUB-120-VG	PROVIDE WALL SWITCH, INTERLOCK WITH SF-1, UPBLAST. PROVIDE WITH PRE-FAB ROOF CURB
SF-1	KITCHEN CEILING	1250	0.75	115	1	60	1/2 HP	6.4	9.3	110	INLINE	DIRECT DRIVE	GREENHECK SQ-120-VG	INTERLOCK WITH EF-3, FILTER FAN SECTION WITH 2" PLEATED MERV 8 FILTERS.

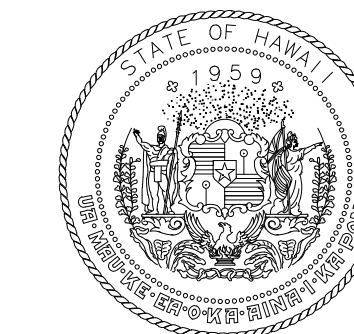
### PACKAGED AC UNIT SCHEDULE

MARK	LOCATION	TYPE	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	AMBIENT AIR TEMP °F	SA CFM	RA CFM	OA CFM	REF TYPE	EVAP FAN MOTOR			COND FAN MOTOR			COMPRESSOR			ELECTRICAL				BASIS OF DESIGN OR APPROVED EQUAL	OPR. WT (LBS)	REMARKS
										QTY	CFM	FLA	QTY	CFM	FLA	QTY	RLA	LRA	VOLTS	PH	MCA	MOCP			
AC-1	OFFICE	PACKAGE	27100	23800	95	1200	1080	120	R-410A	1	-	4.3	1	-	3.5	1	11.2	84.0	208	3	28.7	45	MARVAIR MAA1036A	400	UNIT WITH HOT GAS REHEAT, TOP SUPPLY, BOTTOM RETURN. PROVIDE WALL MOUNTED THERMOSTAT.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

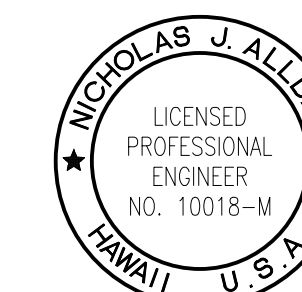
### HIGH VOLUME LOW SPEED FAN SCHEDULE

MARK	LOCATION	TYPE	BASIS OF DESIGN OR APPROVED EQUAL	MIN WHEEL DIAMETER (FT)	MOTOR					UNIT WEIGHT (LBS)	REMARKS
					AMPS	W	VOLTS	PH	HZ		
HVLS-1	APPARATUS	HVLS	POWERFOIL D	12	10	-	208	3	-	230	PROVIDE W/ WALL SWITCH
HVLS-2	APPARATUS	HVLS	POWERFOIL D	12	10	-	208	3	-	230	PROVIDE W/ WALL SWITCH
HVLS-3	APPARATUS	HVLS	HAIKU	52"	-	19.5	208	1	-	177	LOW PROFILE, PROVIDE W/ WALL SWITCH

NOTES:



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DEPARTMENT OF TRANSPORTATION  
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Licensed Expiration Date

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TT	JA	NA	NA
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### KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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## CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

PROJECT TITLE :

JRF ARFF STATION  
RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

## MECHANICAL EQUIPMENT SCHEDULES

DATE :

01 MAY 2024

SHEET :

37 OF 57 SHEETS

DWG. NO.

M-601



## GENERAL NOTES

- CONFORM TO ALL REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), UNIFORM PLUMBING CODE, UNIFORM FIRE CODE, NATIONAL ELECTRIC CODE, ENERGY CONSERVATION CODE, THE LATEST CITY & COUNTY OF HONOLULU/STATE OF HAWAII AMENDMENTS AND ORDINANCES, AND ALL OTHER AGENCIES HAVING JURISDICTION. THE AIR CONDITIONING AND VENTILATION SYSTEMS SHALL COMPLY WITH TITLE 11, ADMINISTRATIVE RULES DEPT. OF HEALTH, CHAPTER 39 - AIR CONDITIONING AND VENTILATION REQUIREMENTS. COMPLY WITH ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
- WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS UNLESS CONTRACT DOCUMENTS ARE MORE STRINGENT.
- ALL WORK SHOWN ON THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. BIDDERS SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DETAILS OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING THEIR BID. REASONABLE MODIFICATIONS IN LOCATION AND ARRANGEMENTS TO SUIT JOB CONDITIONS SHALL NOT CONSTITUTE BASIS FOR REQUESTING OF ADDITIONAL FUNDS FROM THE OWNER.
- PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, SUCCESSFUL BIDDER (CONTRACTOR) SHALL BE REQUIRED TO VERIFY ALL CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.
- REMOVE ALL UNUSED PIPING AND DUCTWORK UNLESS SPECIFICALLY INDICATED AS "ABANDON IN PLACE." ALL ABANDONED PIPING AND DUCTWORK SHALL BE CAPPED AT BOTH ENDS.
- ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
- ALL FASTENERS, SUPPORTS, HANGERS, SPRING ISOLATORS, AND MISCELLANEOUS STEEL ITEMS INCLUDING BUT NOT LIMITED TO BOLTS, NUTS, SCREWS, RODS, PLATES, AND ANGLES, ETC. SHALL BE GALVANIZED UNLESS OTHERWISE NOTED OR SPECIFIED.
- REFER TO PROJECT MANUAL (SPECIFICATIONS) FOR ADDITIONAL REQUIREMENTS. PLANS AND SPECIFICATIONS SHALL BE TAKEN TOGETHER. PROVIDE ALL WORK CALLED FOR IN EITHER.
- FURNISH ALL EQUIPMENT, MATERIALS, LABOR, TOOLS, ETC., REQUIRED FOR THE INSTALLATION OF THE COMPLETE AND OPERATING SYSTEM. ALL EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
- DO NOT ALLOW ANY WORK TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED AND APPROVED BY OWNER'S REPRESENTATIVE OR AUTHORITY HAVING JURISDICTION.
- THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS, AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER, THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER:
  - GRAVITY FLOW; SEWER, STORM DRAIN.
  - EQUIPMENT AND DUCTWORK.
  - FORCED AND PRESSURE PIPING SUCH AS WATER, FIRE SPRINKLER, AND GAS PIPING.
- CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS, NIPPLES OR FLANGES AT CONNECTION POINTS FOR ALL DISSIMILAR METALS.
- DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL OFFSETS IN PIPING. COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES AND PROVIDE ALL NECESSARY OFFSETS.
- ALL PENETRATIONS OF REQUIRED FIRE-RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER IBC.
- ALL PENETRATIONS OF REQUIRED FIRE-RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL AS REQUIRED AND IN ACCORDANCE WITH ASTM E 814, FM P7825, AND UL 1479.
- NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE ARCHITECT.
- INSTALL ALL PIPING AS HIGH AS POSSIBLE IN CEILING PLENUM TO ALLOW FOR FUTURE WORK.
- PAINT ALL EXPOSED PIPING AND/OR DUCTWORK TO MATCH SURROUNDING COLOR. PROVIDE ESCUTCHEONS WHERE EXPOSED PIPING PENETRATES FINISHED WALLS AND CEILINGS. PROVIDE PAINTED TRIM WHERE EXPOSED DUCTWORK PENETRATES FINISHED WALLS AND CEILINGS.
- INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR ONE (1) YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.

## PLUMBING NOTES

- ALL HORIZONTAL SOIL, WASTE, AND STORM DRAIN PIPING SHALL BE SLOPED AT MINIMUM 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- SUPPORT HORIZONTAL LINES OF COPPER TUBING WITH HANGERS SPACE NOT MORE THAN 6 FEET, CENTER TO CENTER FOR ALL PIPE SIZES. ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES AND RISERS.
- SUPPORT HORIZONTAL CAST IRON SOIL PIPE WITH HANGER, OR PIER, TWO FOR EACH 5 FOOT PIPE LENGTH. LOCATE SUPPORT CLOSE TO JOINTS EXCEPT, PIPE EXCEEDING 5 FEET IN LENGTH SHALL BE SUPPORTED AT NO MORE THAN 5 FOOT INTERVALS. SUPPORTS SHALL BE LOCATED ON BOTH SIDES OF ALL JOINTS AND WITHIN 6" OF THE JOINT.
- ALL DOMESTIC COLD WATER PIPES LOCATED ON THE ROOF OR OTHER LOCATIONS EXPOSED TO DIRECT SUNLIGHT SHALL BE INSULATED.
- ALL PIPE INSULATION EXPOSED TO WEATHER OR EXPOSED WITHIN 7'-0" ABOVE THE FINISHED FLOOR SHALL BE PROVIDED WITH 0.016" THICK ALUMINUM JACKETING.
- DISINFECT NEW WATER PIPING PER UPC 609.9.

## GENERAL LEGEND

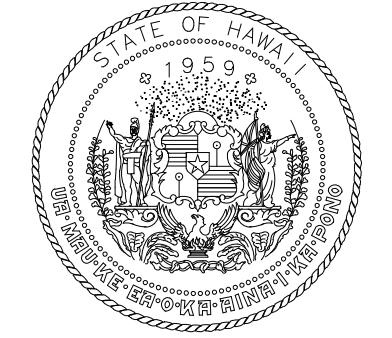
SYMBOL	DESCRIPTION
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
	OR  KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
	EQUIPMENT IDENTIFICATION (REFER TO EQUIPMENT SCHEDULE)
	REVISION CLOUD AND REVISION NUMBER

## MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DEMOLITION		FLOOR CLEANOUT
	EXISTING		FLOOR SINK
	COLD WATER, CW		FLOOR DRAIN
	HOT WATER, HW		ROOF DRAIN
	HOT WATER CIRCULATION, HWC		OVERFLOW DRAIN
	VENT, V		EMERGENCY EYEWASH/SHOWER
	PIPE DOWN		EMERGENCY EYEWASH
	PIPE UP		SHOWER
	VALVE		

## ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
ARCH	ARCHITECT/ARCHITECTURAL	HW	HOT WATER
BLDG	BUILDING	HZ	HERTZ
BTU	BRITISH THERMAL UNIT	KW	KILOWATT
BTUH	BRITISH THERMAL UNIT PER HOUR	KWH	KILOWATT HOUR
		LBS	POUNDS
		NTS	NOT TO SCALE
CO	CLEANOUT	PH OR $\phi$	PHASE
CW	COLD WATER	PLBG	PLUMBING
$\emptyset$	DIAMETER OR PHASE	POC	POINT OF CONNECTION
DEMO	DEMOLISH	POR	POINT OF REMOVAL
DN	DOWN	REV	REVISION(S)
DWG	DRAWING	SHT	SHEET
DW	DISH WASHER	SK	SINK
(E)	EXISTING	SK	TRAP PRIMER OR TEST
EXIST	EXISTING	TP	PLUG
F	FAHRENHEIT	TYP	TYPICAL
FCO	FLOOR CLEANOUT	UBC	UNIFORM BUILDING CODE
FD	FLOOR DRAIN	UPC	UNIFORM PLUMBING CODE
GAL	GALLONS	V	VENT OR VOLTS
GB	GARBAGE DISPOSAL	VTR	VENT THRU ROOF
GPH	GALLONS PER HOUR	W	WASTE
GPM	GALLONS PER MINUTE	WD	WATER DISPENSER
H	HEIGHT	WH	WATER HEATER



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Nicholas J. Allody*  
04/30/2026  
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TT	JA	NA	NA

## KEY PLAN / NOTES:

NO.	DATE	REVISIONS

## CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

## PROJECT TITLE :

**JRF ARFF STATION  
RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

## PROJECT NO.:

**CO4420-33**

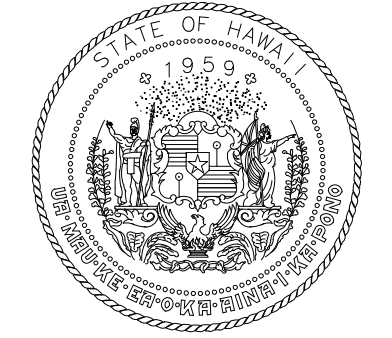
## SHEET TITLE:

**PLUMBING LEGEND,  
ABBREVIATION AND  
NOTES**

DATE :	DWG. NO.
01 MAY 2024	P-001
SHEET :	
38 OF 57 SHEETS	

**DEMOLITION NOTES**

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK



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AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**ENLARGED PLUMBING DEMO PLAN**

DATE :

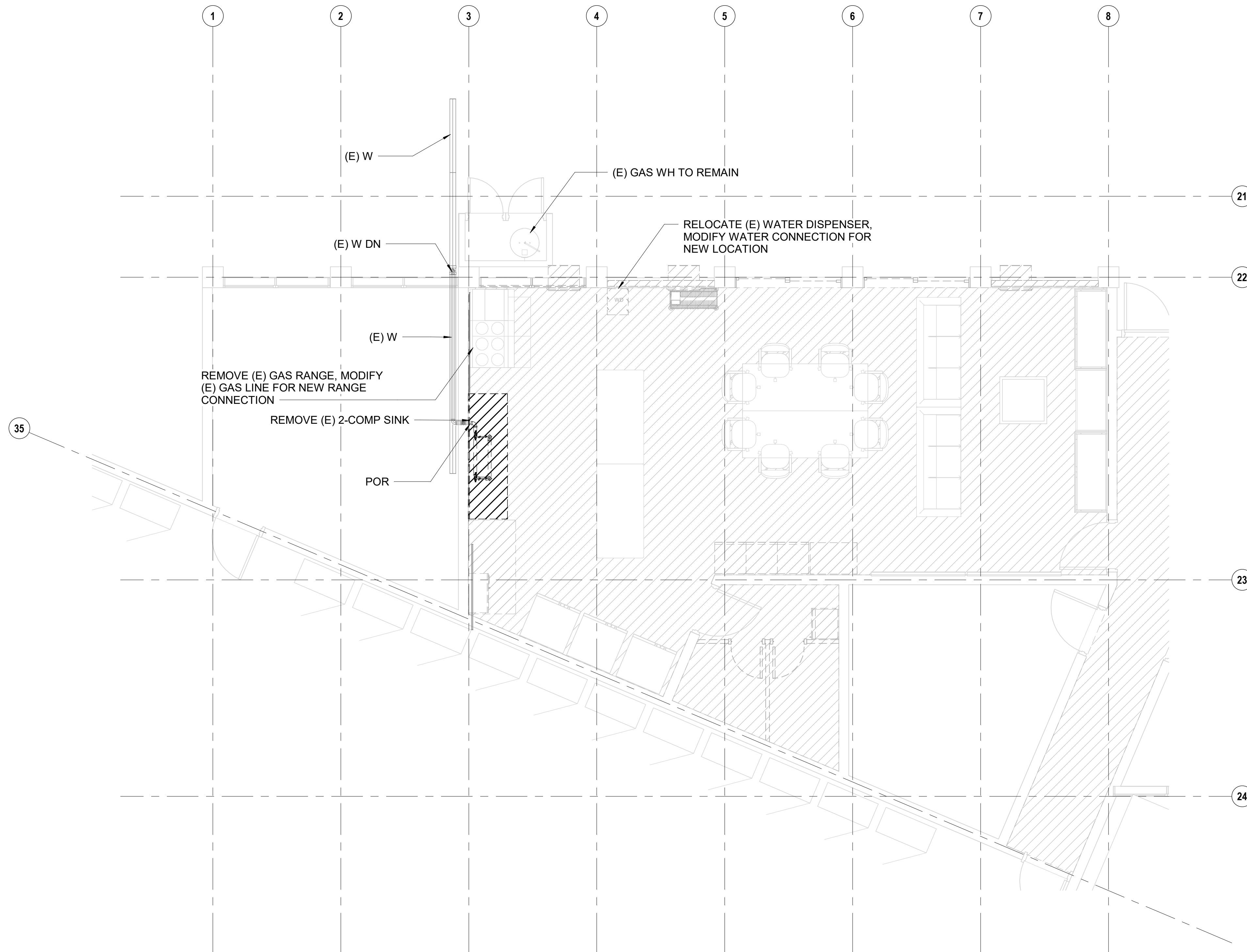
01 MAY 2024

SHEET :

39 OF 57 SHEETS

DWG. NO.

**PD101**



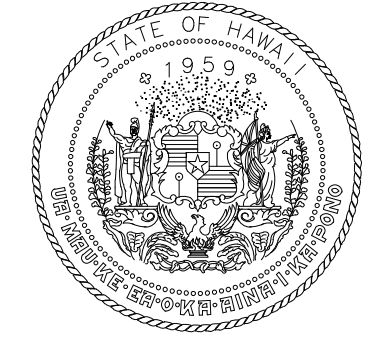
**1 ENLARGED PLUMBING DEMO PLAN**  
PD101 1/4" = 1'-0"





**NOTES**

1. CONTRACTOR TO FIELD VERIFY (E) COTG LOCATION.
2. PROVIDE NEW FLEX CONNECTION FROM THE GAS LINE STUB-OUT TO THE NEW GAS RANGE.



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TT	JA	NA	NA

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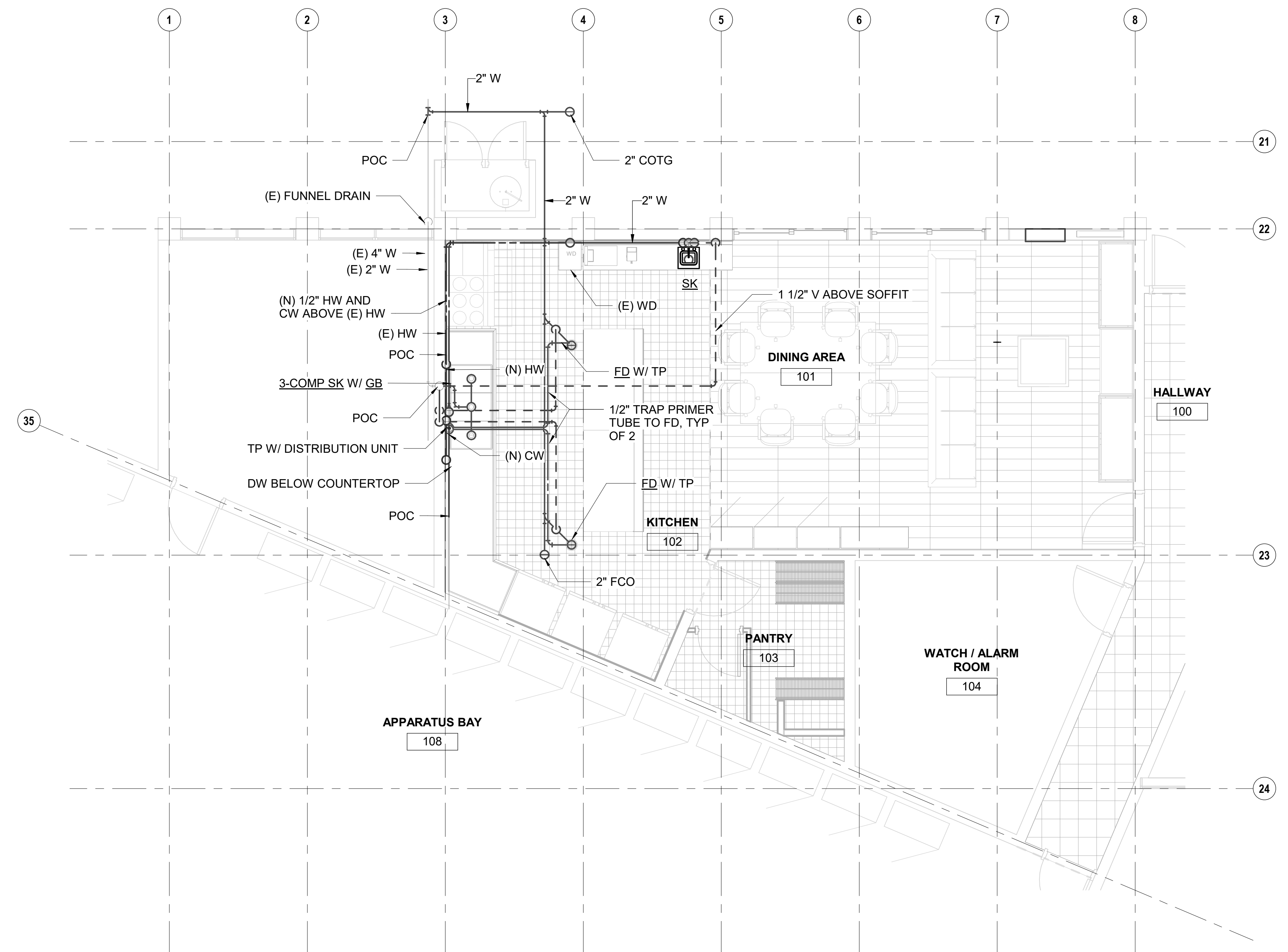
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**CO4420-33**

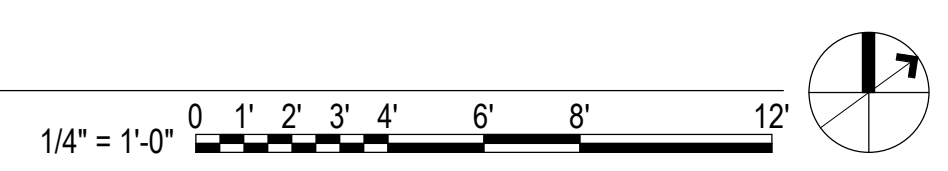
**SHEET TITLE:**

**ENLARGED PLUMBING PLAN**

DATE :	DWG. NO.
01 MAY 2024	<b>P-101</b>
SHEET :	
40 OF 57 SHEETS	



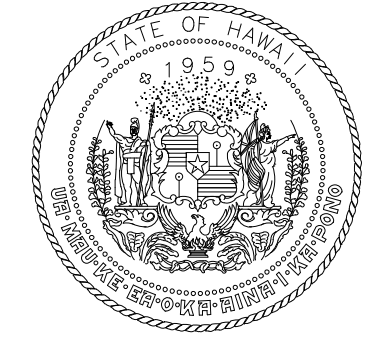
1  
P-101  
ENLARGED PLUMBING PLAN  
1/4" = 1'-0"



## PLUMBING FIXTURE LOCAL CONNECTION SCHEDULE

SYMBOL	FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	MAXIMUM CONSUMPTION	REMARKS
3-COMP SK	SINK	2"	1-1/2"	1/2"	1/2"	2.5 GPM	STAINLESS STEEL, TRIPLE COMPARTMENT
DW	DISHWASHER	2"	-	1/2"	1/2"	2.5 GPM	-
FD	FLOOR DRAIN	*	1-1/2"	-	-	-	* SIZE AS INDICATED ON PLAN
GB	GARBAGE DISPOSAL	1-1/2"	-	-	-	-	PROVIDE IN-SINK-ERATOR MODEL BADGER 5XP WITH WALL SWITCH, 3/4 HP, 120/1/60 (V/PH/HZ), OR APPROVED EQUAL
SK	SINK	2"	1-1/2"	1/2"	1/2"	0.5 GPM	
(E) WD	WATER DISPENSER	-	-	1/2"	-		
TP	TRAP PRIMER	-	-	1/2"	-	-	TRAP PRIMER PR-500 WITH DISTRIBUTION UNIT, OR APPROVED EQUAL

NOTES:  
1. SEE ARCHITECTURAL DRAWING FOR FIXTURE HEIGHTS AND LOCATION.



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*Nicholas J. Allday*  
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### KEY PLAN / NOTES:

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RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

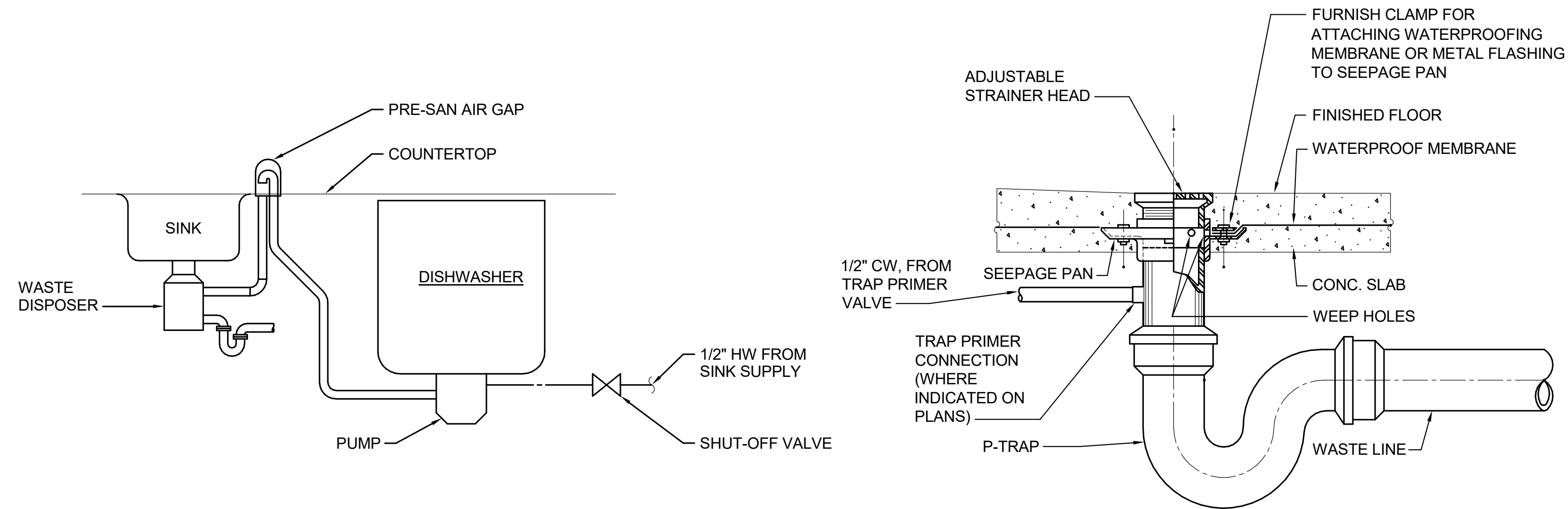
### PROJECT NO.:

**CO4420-33**

### SHEET TITLE:

**PLUMBING  
SCHEDULES AND  
DETAILS**

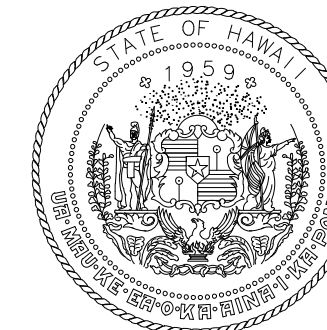
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01 MAY 2024	<b>P-601</b>
SHEET :	
41 OF 57 SHEETS	



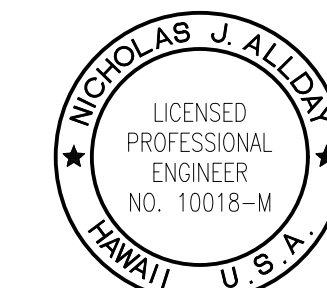
1 P-501 **DISHWASHER DRAIN INSTALLATION DETAIL**

2 P-501 **FLOOR DRAIN DETAIL**





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Nicholas J. Allday*  
04/30/2026  
Licensed Expiration Date

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
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TT	JA	NA	NA
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**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION  
RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**PIPING DIAGRAM**

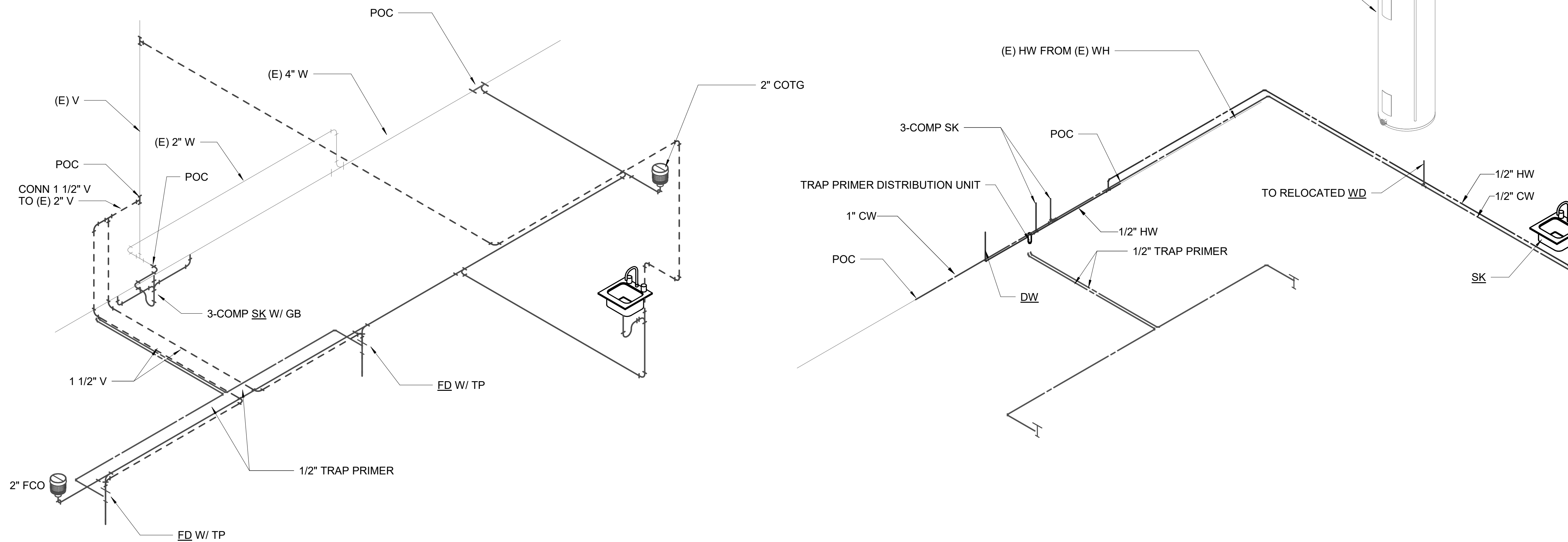
DATE :	DWG. NO.
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01 MAY 2024

SHEET :

42 OF 57 SHEETS

**P-901**



1  
P-901  
**SANITARY PIPING DIAGRAM**

2  
P-901  
**WATER PIPING DIAGRAM**

## ELECTRICAL SYMBOL LIST

### RACEWAYS & CONDUCTORS

INSTALL PER NEC 210.4

- RACEWAY AND CONDUCTORS - EXPOSED
- RACEWAY AND CONDUCTORS - CONCEALED
- RACEWAY AND CONDUCTORS - BELOW FLOOR OR GRADE
- FLEXIBLE RACEWAY AND CONDUCTORS
- HOMERUN TO PANEL AND CIRCUIT. NUMBER OF ARROWS EQUALS NUMBER OF CIRCUITS. #12 CONDUCTOR UNLESS OTHERWISE NOTED.
- HOMERUN TO PANEL "A". CIRCUIT 1

### LINE TYPES

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW

### POWER

- PANELBOARD / EQUIPMENT
- DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 3 WIRE, +18" AFF OR AS NOTED
- DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 3 WIRE, MOUNTED 6" ABOVE COUNTER OR AS NOTED
- DOUBLE DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 3 WIRE, +18" AFF OR AS NOTED
- FLUSH FLOOR MOUNTED POWER RECEPTACLE, 20 AMP, 125 VOLT, 3 WIRE, HUBBELL B2529 FLOOR BOX, S3925 BRASS COVER
- NEMA OUTLET, RATING AS INDICATED, +18" AFF OR AS NOTED
- JUNCTION BOX
- JUNCTION BOX, FLOOR MOUNTED
- JUNCTION BOX, WALL MOUNTED
- EQUIPMENT CONNECTION
- MOTOR CONNECTION, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL
- MAGNETIC STARTER, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL
- DISCONNECT SWITCH, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL
- EQUIPMENT MOTOR SWITCH, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL

### TELECOM

- COMBINATION TEL/DATA OUTLET, +18" A.F.F. PROVIDE RACEWAY AND CABLING. 1" CO TO ACCESSIBLE CEILING OR TO TELECOM BACKBOARD. CAT6 CABLE TO PATCH PANEL.

### LIGHTING

#### DEVICES:

- LIGHT SWITCH, SINGLE POLE, +46" A.F.F.
- LIGHT SWITCH, THREE WAY, +46" A.F.F.
- LIGHT SWITCH, DIMMING, +46" A.F.F.
- LIGHT SWITCH, FAN, +46" A.F.F.
- LIGHT SWITCH, KEY OPERATED, +46" A.F.F.
- OCCUPANCY SENSOR, WALL MOUNTED
- OCCUPANCY SENSOR, WALL MOUNTED, DUAL TECHNOLOGY
- OCCUPANCY SENSOR, WALL MOUNTED, INFRARED
- OCCUPANCY SENSOR, WALL MOUNTED, ULTRASONIC
- OCCUPANCY SENSOR, CEILING MOUNTED
- DAYLIGHT SENSOR
- ROOM CONTROLLER
- PHOTOCELL
- PHOTOCELL, DIMMING

#### LUMINAIRES:

- RECESSED DOWNLIGHT
- RECESSED WALL WASHER
- TROFFER, SIZE AS INDICATED. SHADING INDICATES INTEGRAL EMERGENCY BATTERY
- SURFACE MOUNTED HIGHBAY
- STRIP LIGHT FIXTURE
- SCONCE
- CEILING FAN
- EMERGENCY LIGHT UNIT

### SYMBOL

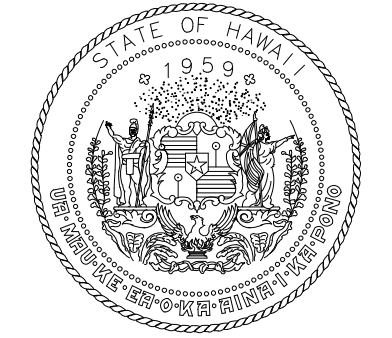
- VIEW REFERENCE
- NORTH ARROW
- CENTERLINE
- NOTE REFERENCE
- KEYNOTE REFERENCE
- ABC** LUMINAIRE DESIGNATION, REFER TO LUMINAIRE SCHEDULE

### ABBREVIATIONS

- AF ARC FAULT BREAKER
- C CONDUIT
- CLF CURRENT LIMITING FUSE
- DP DISPOSAL
- DW DISHWASHER
- ECB ENCLOSED CIRCUIT BREAKER
- EL EVENING LIGHT, TIMESWITCH CONTROLLED
- EWC ELECTRONIC WATER COOLER
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- HA HACR BREAKER
- HECO HAWAIIAN ELECTRIC COMPANY
- IG INSULATED GROUND CIRCUIT(S)
- L LIGHT(S)
- LC LIGHTING CONTACTOR
- LB LOCKABLE BREAKER
- MDP MAIN DISTRIBUTION PANEL
- MW MICROWAVE
- NL NIGHT LIGHT, TIMESWITCH CONTROLLED
- PFB PROVISIONS FOR BREAKER
- R RECEPTACLE(S)
- REF REFRIGERATOR
- RUD ROLL UP DOOR
- S SPARE BREAKER
- TR TAMPER RESISTANT
- WP WEATHERPROOF
- 4X NEMA 4X 316 STAINLESS STEEL

## ELECTRICAL NOTES

1. INSTALLATION SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE, NFPA 72, LOCAL AMENDMENTS, AND NECA STANDARDS OF INSTALLATION.
2. CUT AND PATCH THE EXISTING CEILING AND WALLS AS REQUIRED TO INSTALL NEW BRANCH CIRCUITS. ANY PATCHES SHALL BE FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REPLACE ANY DAMAGED CEILING TILES AS REQUIRED.
3. ALL CONDUCTORS INSTALLED IN EXTERIOR SPACES SHALL BE XHHW, INTERIOR WIRING MAY BE THHW/THHN.
4. CONDUCTORS SHALL BE #12 AWG COPPER MINIMUM OR AS INDICATED ON THE EQUIPMENT SCHEDULE. HOME RUN CONDUCTORS SHALL BE #10 AWG COPPER MINIMUM OR AS REQUIRED BY NEC. MINIMUM SIZE FOR 20A BRANCH CIRCUIT MEASURED FROM THE PANELBOARD TO THE FURTHEST DEVICE ON THE CIRCUIT UNLESS NOTED ON DRAWINGS:
  - A. 10 AWG CONDUCTORS FOR 120V BRANCH CIRCUITS GREATER THAN 75'.
  - B. 8 AWG CONDUCTORS FOR 120V BRANCH CIRCUITS GREATER THAN 175'.
 TRANSITION TO #12 AWG WITHIN 15' OF DEVICE IF SMALL CONDUCTOR IS REQUIRED FOR DEVICE TERMINATION.
5. CONDUIT FOR INTERIOR LOCATIONS SHALL BE ELECTRICAL METALLIC TUBING (EMT) WHERE NOT SUBJECT TO DAMAGE. CONDUIT IN EXTERIOR LOCATIONS SHALL BE GALVANIZED RIGID STEEL (GRS) CONDUIT.
6. CONTRACTOR SHALL PROVIDE AND INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW CONDUITS.
7. EXISTING EQUIPMENT INFORMATION SHOWN ON THESE DRAWINGS SHOULD BE FIELD VERIFIED. CONFIRM EQUIPMENT LOCATIONS WITH OWNER AND ADJUST AS REQUIRED.
8. ALL CONDUCTOR SIZES SHOWN ARE BASED ON COPPER.
9. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN CONDUIT AND PIPING. MAINTAIN 12" CLEARANCE BETWEEN CONDUIT AND HEAT SOURCES SUCH AS FLUES, HEATING PIPES, AND HEATING APPLIANCES.
10. PROVIDE TYPED, UPDATED PANEL SCHEDULES FOR NEW PANELS AND PANELS WITH CIRCUIT MODIFICATIONS FROM THIS PROJECT.
11. VERIFY CEILING TYPES THROUGHOUT; PROVIDE ALL MOUNTING ACCESSORIES, TRIM, FLANGES, OUTLET BOXES, ETC. FOR A COMPLETE AND FINISHED INSTALLATION.
12. ALL EQUIPMENT AND MATERIALS ARE UL LISTED WHERE LISTING IS AVAILABLE FOR THAT TYPE OF EQUIPMENT OR CONFORM TO ANSI OR NEMA STANDARDS.
13. WORKMANSHIP SHALL CONFORM TO CONSTRUCTION PRACTICES RECOMMENDED BY THE AMERICAN ELECTRICIANS HANDBOOK BY CROFT (LATEST EDITION) AND WILL BE SUBJECTED TO THE APPROVAL OF THE AGENCY THAT HAS JURISDICTION AND THE ENGINEER OF RECORD.
14. ALL METALLIC ENCLOSURES, RACEWAYS AND ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH REQUIREMENTS OF NEC ARTICLE 250, WITH GROUND WIRE IN EVERY RACEWAY. RACEWAY SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122.
15. TEST COMPLETED INSTALLATION AND CORRECT ALL DEFICIENCIES FOUND IN THE SYSTEM OR INSTALLATION.
16. ALL EXISTING CIRCUITS AFFECTED DURING ELECTRICAL INSTALLATION SHALL BE RESTORED TO THEIR ORIGINAL OPERATING CONDITION.
17. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO DEMOLITION, DIGGING, TRENCHING, OR SIMILAR OPERATIONS. COORDINATE WITH THE CONSTRUCTION MANAGER OR OWNERS REPRESENTATIVE TO REVIEW EACH WORK AREA PRIOR TO BEGINNING WORK.
18. ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE FROM THE BEST AVAILABLE AS-BUILT DRAWINGS AND LIMITED SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY THE ACTUAL CONDITION BEFORE CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
19. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL RACEWAY AND CONNECTIONS BETWEEN RESPECTIVE DEVICES, FIXTURES, AND EQUIPMENT. CONTRACTOR TO DETERMINE EXACT ROUTING OF RACEWAY CONNECTIONS BETWEEN RESPECTIVE DEVICES, FIXTURES, AND EQUIPMENT. PROVIDE CIRCUIT IDENTIFICATION LABEL ON DEVICES, LIGHT SWITCHES, AND EQUIPMENT.
20. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.
21. PROVIDE EXPANSION DEFLECTION COUPLINGS AT ALL BUILDING EXPANSION JOINTS.
22. COORDINATE ANY POWER OUTAGES WITH DOT-A PROJECT MANAGER.



STATE OF HAWAII  
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AIRPORTS



This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
DL	DL	JH	JBD

### KEY PLAN / NOTES:

NO.	DATE	REVISIONS

## CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

### PROJECT TITLE :

**JRF ARFF STATION  
RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

### PROJECT NO.:

**CO4420-33**

### SHEET TITLE:

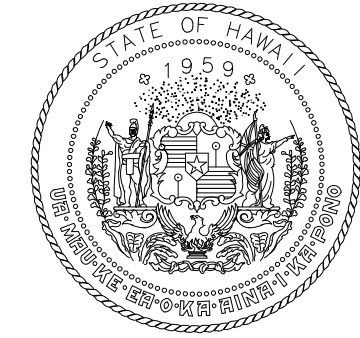
## ABBREVIATIONS AND SYMBOLS LEGEND

DATE :	DWG. NO.
01 MAY 2024	E-001
SHEET :	
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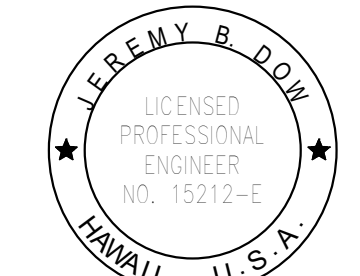


## GENERAL NOTES

1. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES FROM THE PLANS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY & COUNTY OF HONOLULU, STATE DEPARTMENT OF HEALTH REGULATIONS, STATE OF HAWAII, TITLE 12, SUBTITLE 8, PART 10. THE CURRENT VERSION OF THE INTERNATIONAL BUILDING CODE, UNIFORM FIRE CODE, NFPA 13, NFPA 70, NFPA 72, NFPA 110, NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL OTHER AGENCIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED. THE OMISSION OF REFERENCE O ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING. ARRANGE AND LOCATE PIPING TO MAINTAIN ADEQUATE CLEARANCES TO SERVICE EQUIPMENT. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE RECORD DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED.
5. PATCH AND PAINT ALL EXPOSED MATERIALS TO MATCH ADJACENT SURFACES OR AS INDICATED.
6. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS, AND SLABS.
7. ALL WORK SHALL BE COORDINATED WITH AIRPORT MANAGEMENT AND DONE IN ACCORDANCE WITH THE PHASING PLAN.
8. CONTRACTOR SHALL COMPLY WITH ALL OSHA AND EPA REGULATIONS AND REQUIREMENTS IN THE HANDLING OF ANY POTENTIALLY HAZARDOUS MATERIALS, INCLUDING ASBESTOS CONTAINING MATERIALS, LEAD-BASED PAINT AND FLUORESCENT LIGHT BULBS.
9. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE AND IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
11. PATCH ALL SURFACES AFFECTED BY DEMOLITION AND NEW WORK. FINISH TO MATCH EXISTING ADJACENT WALL AND/OR EXISTING CONDITIONS.
12. CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN SHALL BE DAMAGED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE LANDSCAPING AND STRUCTURE TO THE ORIGINAL CONDITIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A REASONABLY NEAT AND SAFE CONDITION. ALL WORK SHALL BE PERFORMED WITHIN THE PROPERTY. STORING OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH THE OWNER.
14. AT COMPLETION OF WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH FROM THE SITE AND LEAVE THE PREMISES CLEAN AND TO THE SATISFACTION OF THE OWNER.
15. THIS PROJECT CONFORMS TO THE LATEST ADOPTED BUILDING CODE REQUIREMENTS.
16. THE DEMOLITION DRAWINGS ARE INTENDED TO SHOW THE GENERAL SCOPE OF WORK AND DO NOT NECESSARILY SHOW EVERY DEVICE, THE CONTRACTOR SHALL FIELD VERIFY OTHER ELECTRICAL SERVICES THAT MAY BE ENCOUNTERED DURING DEMOLITION AND SHALL REMOVE OR REROUTE THESE ITEMS DIRECTED.
17. THE CONTRACTOR SHALL VERIFY PRIOR TO BEGINNING WORK THAT ELECTRICAL TRANSFORMER AND DISTRIBUTION SYSTEM ARE IN PROPER WORKING ORDER. ANY ELECTRICAL DEVICES FOUND TO BE IN A NON-WORKING CONDITION SHALL BE REPLACED OR REPAIRED AS NECESSARY.
18. REMOVE ALL UNUSED WIRING FROM DEMOLITION AREA, INCLUDING DISCONNECTED UNDER THIS CONTRACT AND WIRING UNCOVERED BY DEMOLITION.
19. MAINTAIN CIRCUIT CONTINUITY AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO REMAIN, INCLUDING THOSE OUTSIDE OF PROJECT LIMITS. COORDINATE WITH NEW WORK AND RE-ROUTE CONDUIT AND WIRE AS REQUIRED TO AVOID CONFLICT WITH NEW WORK.
20. ALL MATERIALS REMOVED REMAIN THE PROPERTY OF THE STATE. IF THE STATE CHOOSES TO DISCARD THESE MATERIALS THEN THE CONTRACTOR SHALL DISPOSE OF THEM AS DIRECTED.
21. ALL NEW WORK SHALL BE CONCEALED ABOVE CEILING AND IN WALLS TO THE EXTENT POSSIBLE.
22. PROVIDE FIRESTOPPING THROUGH FIRE RATED WALLS. FIRESTOPPING TO MATCH WALL FINISH COLOR.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Jeremy B. DDM*  
04/30/2026  
Licensed Expiration Date

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DSGN.	DRWN.	CHKD.	APPD.
DL	DL	JH	JBD

### KEY PLAN / NOTES:

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NO.	DATE	REVISIONS
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## CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

### PROJECT TITLE :

#### JRF ARFF STATION RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

### PROJECT NO.:

**CO4420-33**

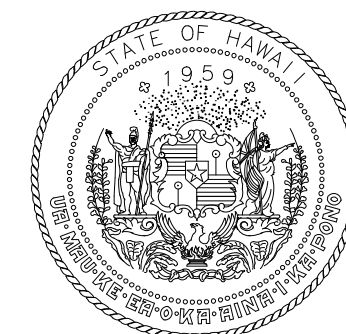
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## ELECTRICAL NOTES

DATE :	DWG. NO.
01 MAY 2024	<b>E-010</b>
SHEET :	
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LUMINAIRE SCHEDULE											
TYPE MARK	IMAGE	MOUNTING	DESCRIPTION	LUMINAIRE / TRIM COLOR	LENS / LOUVER	LAMP TYPE	COLOR TEMP	LOAD	VOLTAGE	BASIS OF DESIGN MFR (OR APPROVED EQUAL)	MODEL (OR APPROVED EQUAL)
ELU		WALL, 8-4" AFF TO CENTER	DUAL HEAD EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND SELF DIAGNOSTICS	WHITE		LED		5 VA	120 V	COOPER LIGHTING	SELHP100LiFeP0R3SD
PLA		PENDANT	4' STRIP, 3043 lm	WHITE	HIGH IMPACT POLYCARBONATE	LED	3500K	21 VA	120 V	METALUX	4APVTLD-SL3C3
PLAE		PENDANT	4' STRIP, 3043 lm, EMERGENCY BATTERY PACK	WHITE	HIGH IMPACT POLYCARBONATE	LED	3500K	21 VA	120 V	METALUX	4APVTLD-SL3C3-EL10W
PLB		PENDANT	HIGHBAY, 10000 lm, BIRD GUARD	WHITE		LED	3000K	114 VA	120 V	COOPER LIGHTING	TT-D5-830-U-WQ-DPM-TT/BG-UP-NW
RLA		RECESSED	1x4 TROFFER WITH GASKET, 3000 lm	WHITE	DIFFUSED FROSTED ACRYLIC	LED	3000K	27 VA	120 V	LITHONIA LIGHTING	WRTL-F-L48-3000LM-OAW-AFL-MVOLT-GZ1-30K-80C RI-FPA-WH
RLAE		RECESSED	1x4 TROFFER WITH GASKET, 3000 lm, EMERGENCY BATTERY PACK	WHITE	DIFFUSED FROSTED ACRYLIC	LED	3000K	27 VA	120 V	LITHONIA LIGHTING	WRTL-F-L48-3000LM-OAW-AFL-MVOLT-GZ1-30K-80C RI-E10WLCP-FPA-WH
SLA		SURFACE	4' LINEAR, 4000 lm	WHITE	FLAT DIFFUSE	LED	3000K	24 VA	120 V	LITHONIA LIGHTING	CLX-L48-4000LM-HEF-FDL-MVOLT-GZ10-30K-80CRI-WH
SLAE		SURFACE	4' LINEAR, 4000 lm, EMERGENCY BATTERY PACK	WHITE	FLAT DIFFUSE	LED	3000K	24 VA	120 V	LITHONIA LIGHTING	CLX-L48-4000LM-HEF-FDL-MVOLT-GZ10-30K-80CRI-E10WLCP-WH
SLB		SURFACE	HIGHBAY, 10000 lm	WHITE		LED	3000K	114 VA	120 V	COOPER LIGHTING	TT-D5-830-U-WQ-NW

MECHANICAL EQUIPMENT SCHEDULE											
EQUIP ID	EQUIP NO	HP	FLA	MCA	MOCP	VOLTS	# OF POLES	PANEL	CIRCUIT	COMMENTS	
AC	1		23 A	29 A	45 A	208 V	3	A	44,46,48		
EF	1		3 A		20 A	120 V	1			INTERLOCK WITH LIGHT SWITCH AT ENTRANCE DOOR. CIRCUIT TO EXISTING LIGHTING CIRCUIT IN RESTROOM.	
EF	2		1 A		20 A	120 V	1			INTERLOCK WITH LIGHT SWITCH AT ENTRANCE DOOR. CIRCUIT TO EXISTING LIGHTING CIRCUIT IN RESTROOM.	
EF	3		5 A		20 A	120 V	1			INTERLOCK WITH SF-1	
HVLS	1		10 A		20 A	208 V	3	E	2,4,6		
HVLS	2		10 A		20 A	208 V	3	E	8,10,12		
HVLS	3		0 A		20 A	208 V	2	E	14,16		
RUD	1	1.5	7 A		20 A	208 V	3	E	1,3,5		
RUD	2	1.5	7 A		20 A	208 V	3	E	7,9,11		
RUD	3	1.5	7 A		20 A	208 V	3	E	13,15,17		
RUD	4	1.5	7 A		20 A	208 V	3	E	19,21,23		
RUD	5	1.5	7 A		20 A	208 V	3	E	25,27,29		
RUD	6	1.5	7 A		20 A	208 V	3	E	31,33,35		
RUD	7	1.5	7 A		20 A	208 V	3	E	37,39,41		
SF	1	0.5	10 A		0 A	120 V	1	A	42	INTERLOCK WITH EF-3	



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AIRPORTS



04/30/2026  
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DL	DL	JH	JBD
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KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**LUMINAIRE AND MECHANICAL SCHEDULE**

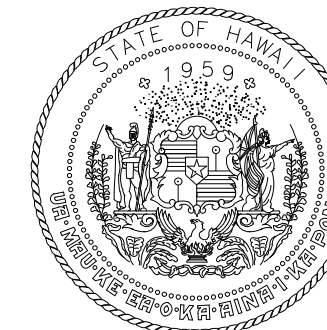
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01 MAY 2024	<b>E-012</b>
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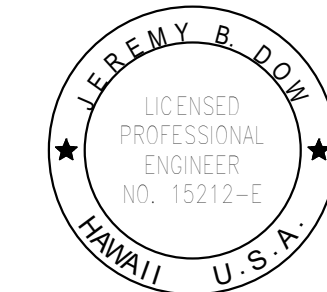
SHEET :
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45 OF 57 SHEETS
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STATE OF HAWAII  
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KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

FIRST FLOOR  
POWER PLAN -  
DEMOLITION

DATE :

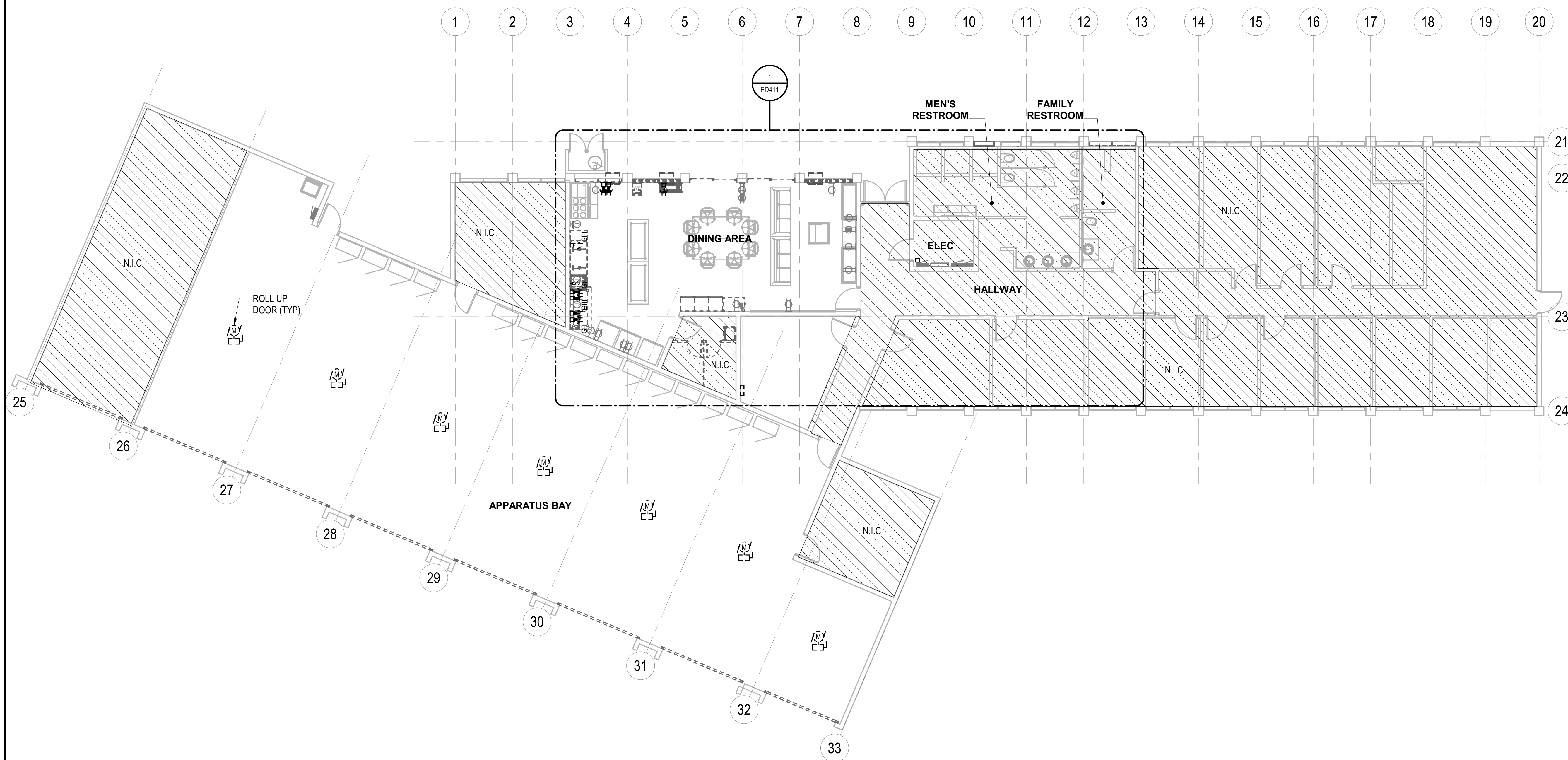
01 MAY 2024

SHEET :

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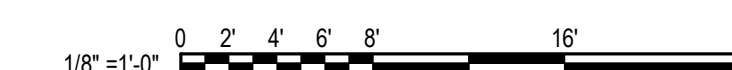
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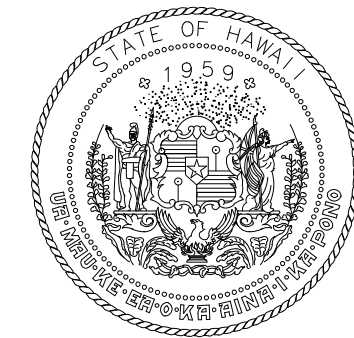
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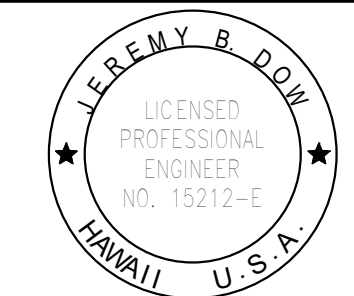
1 FIRST FLOOR POWER PLAN - DEMOLITION

1/8" = 1'-0"





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



*Jeremy B. Dow*  
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DL	DL	JH	JBD

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
-----	------	-----------

**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION  
RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**FIRST FLOOR RCP  
PLAN - DEMOLITION**

DATE :

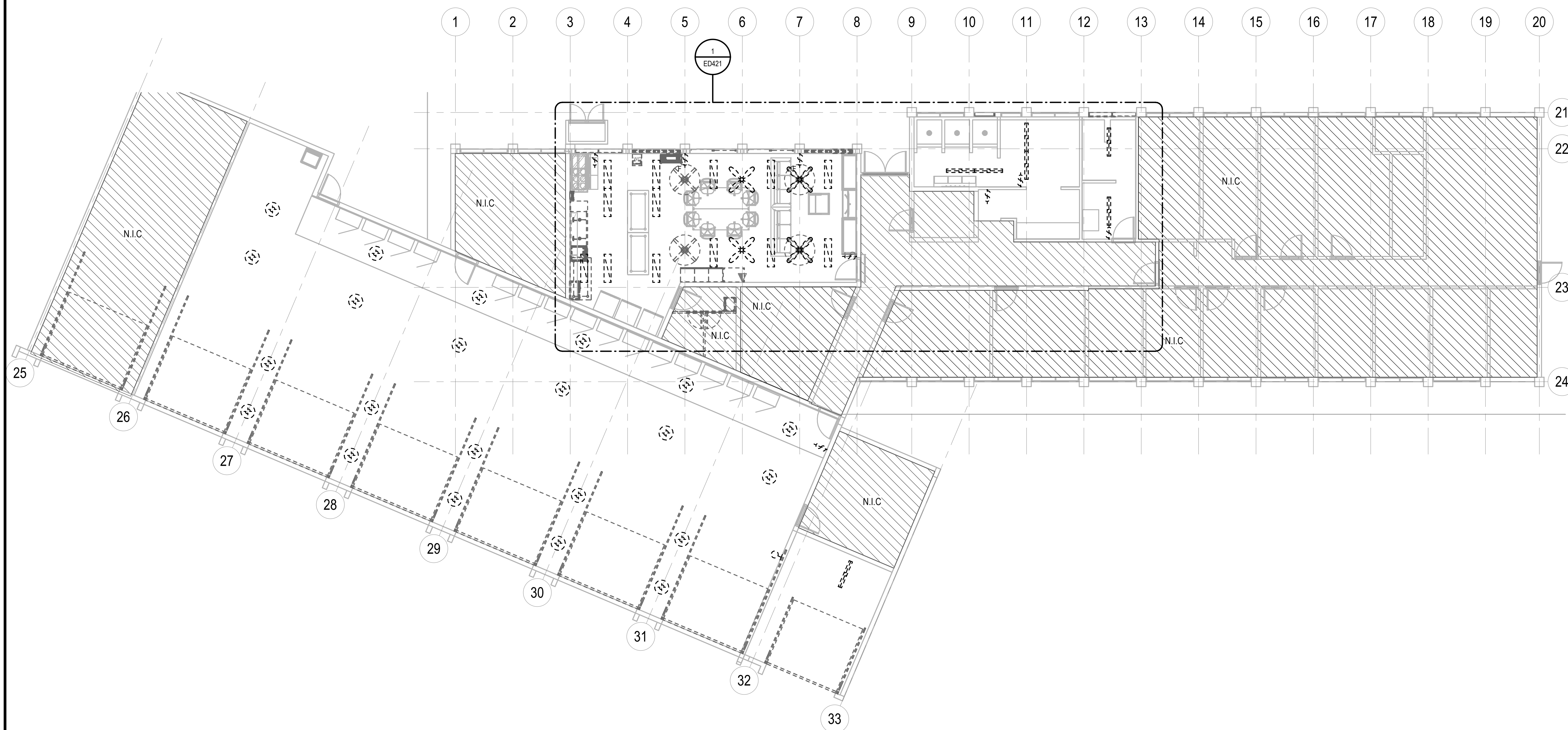
01 MAY 2024

SHEET :

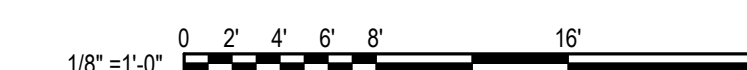
47 OF 57 SHEETS

DWG. NO.

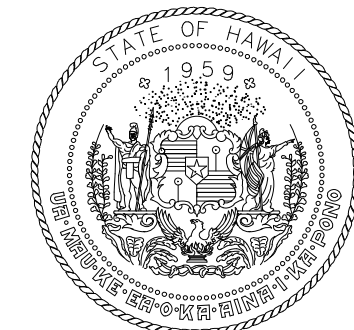
**ED121**



**1** FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION  
1/8" = 1'-0"







STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



04/30/2026  
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DL	DL	JH	JBD

KEY PLAN / NOTES:

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CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

PROJECT TITLE :

JRF ARFF STATION  
RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

ENLARGED FIRST  
FLOOR POWER PLAN  
- DEMOLITION

DATE :

01 MAY 2024

SHEET :

48 OF 57 SHEETS

DWG. NO.

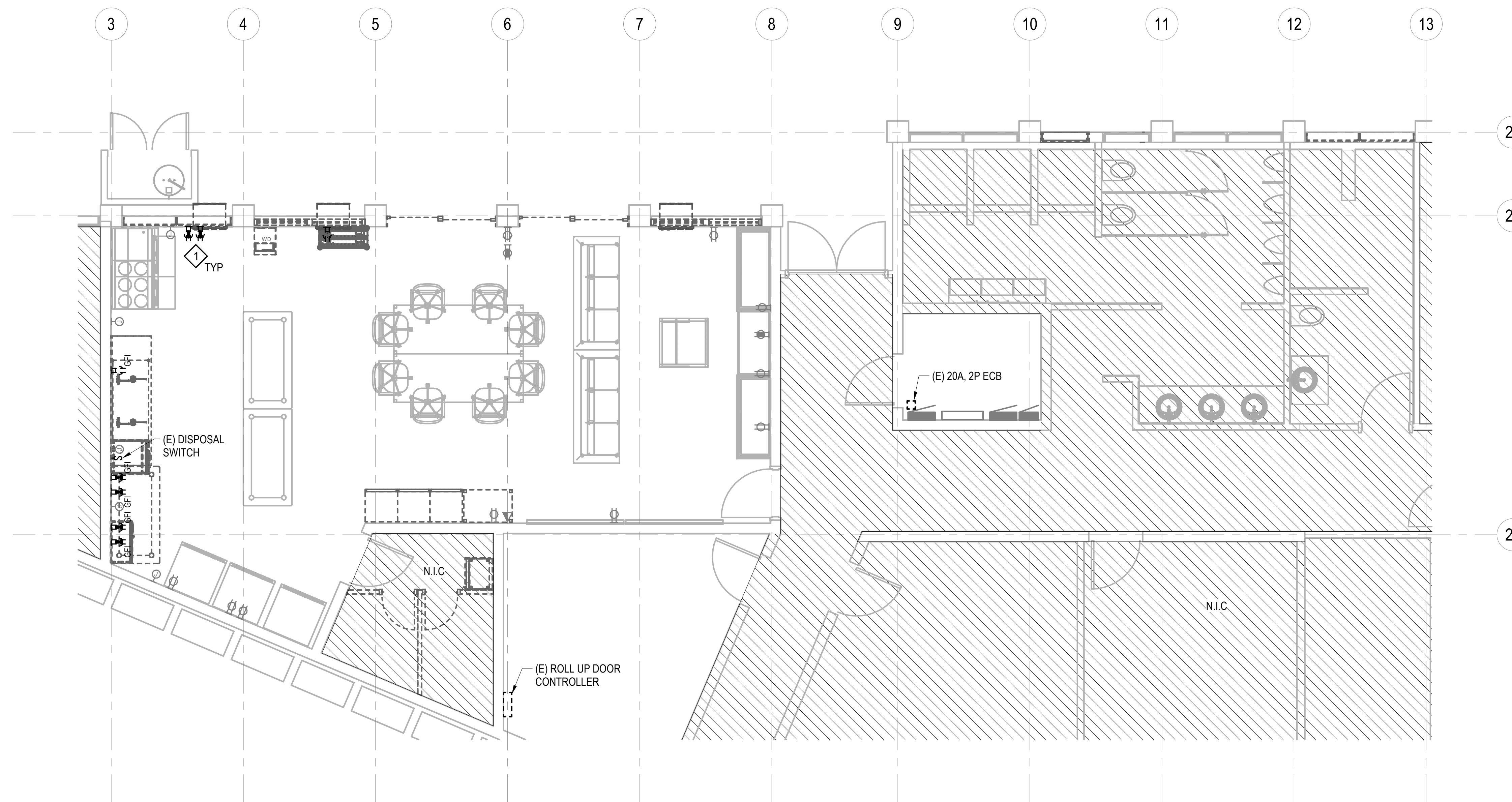
ED411

GENERAL NOTES:

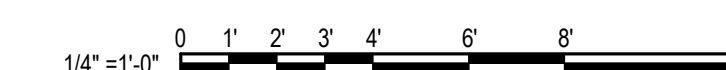
DEMOLISH EXISTING CONDUIT AND  
CONDUCTORS BACK TO PANEL.

KEY NOTES:

1 PROVIDE STAINLESS STEEL COVERPLATE

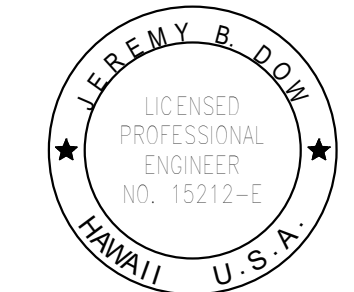


1 ENLARGED FIRST FLOOR POWER PLAN - DEMOLITION  
1/4" = 1'-0"





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DL	DL	JH	JBD

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**ENLARGED FIRST FLOOR RCP PLAN - DEMOLITION**

DATE :

01 MAY 2024

SHEET :

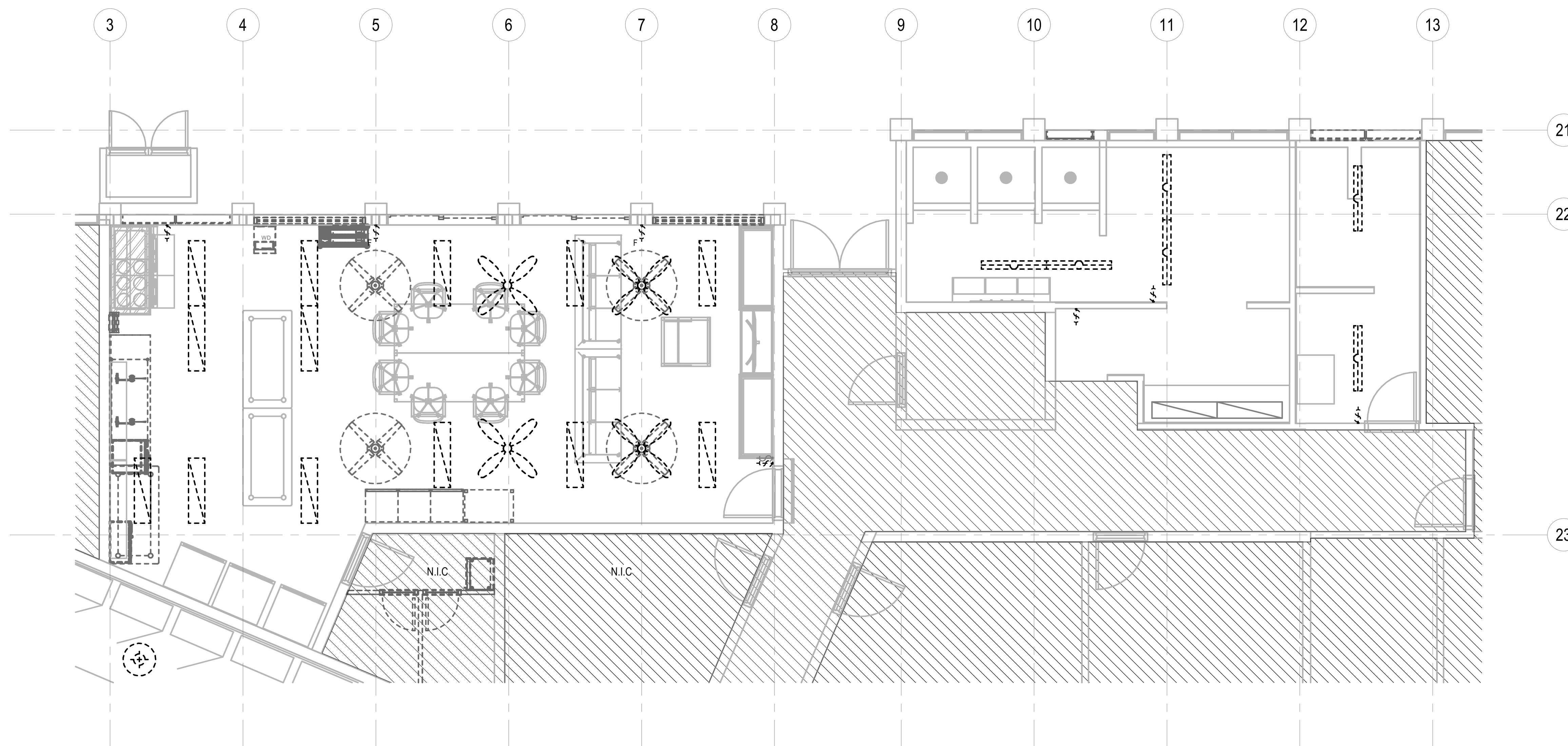
49 OF 57 SHEETS

DWG. NO.

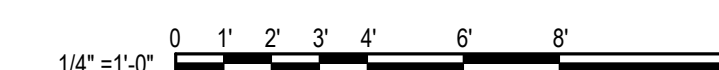
**ED421**

GENERAL NOTES:

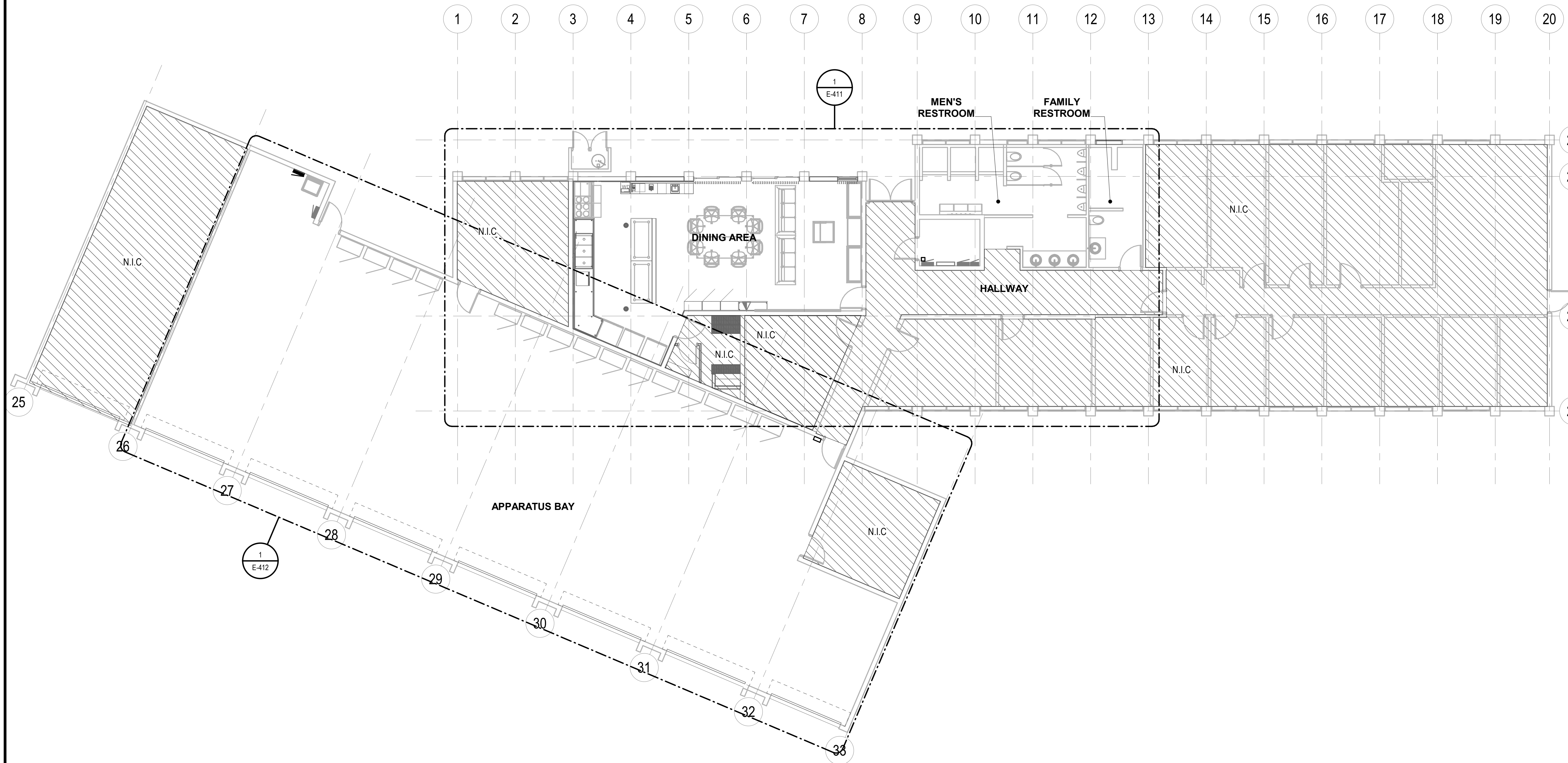
DEMOLISH EXISTING CONDUIT AND CONDUCTORS BACK TO PANEL.



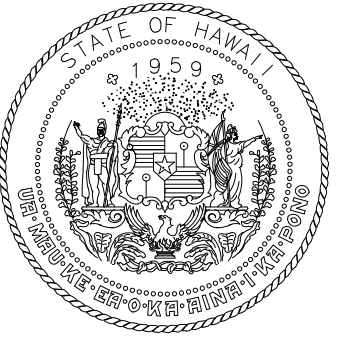
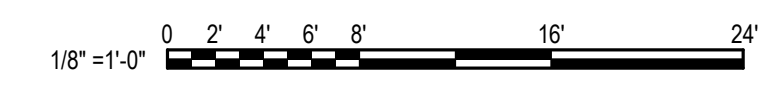
**1** ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION  
1/4" = 1'-0"



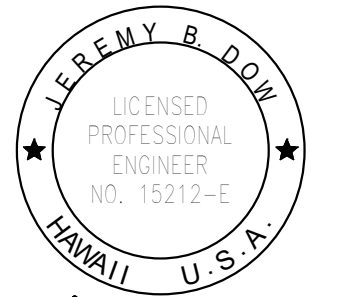




**1** FIRST FLOOR POWER PLAN  
1/8" = 1'-0"



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DL	DL	JH	JBD

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**FIRST FLOOR POWER PLAN**

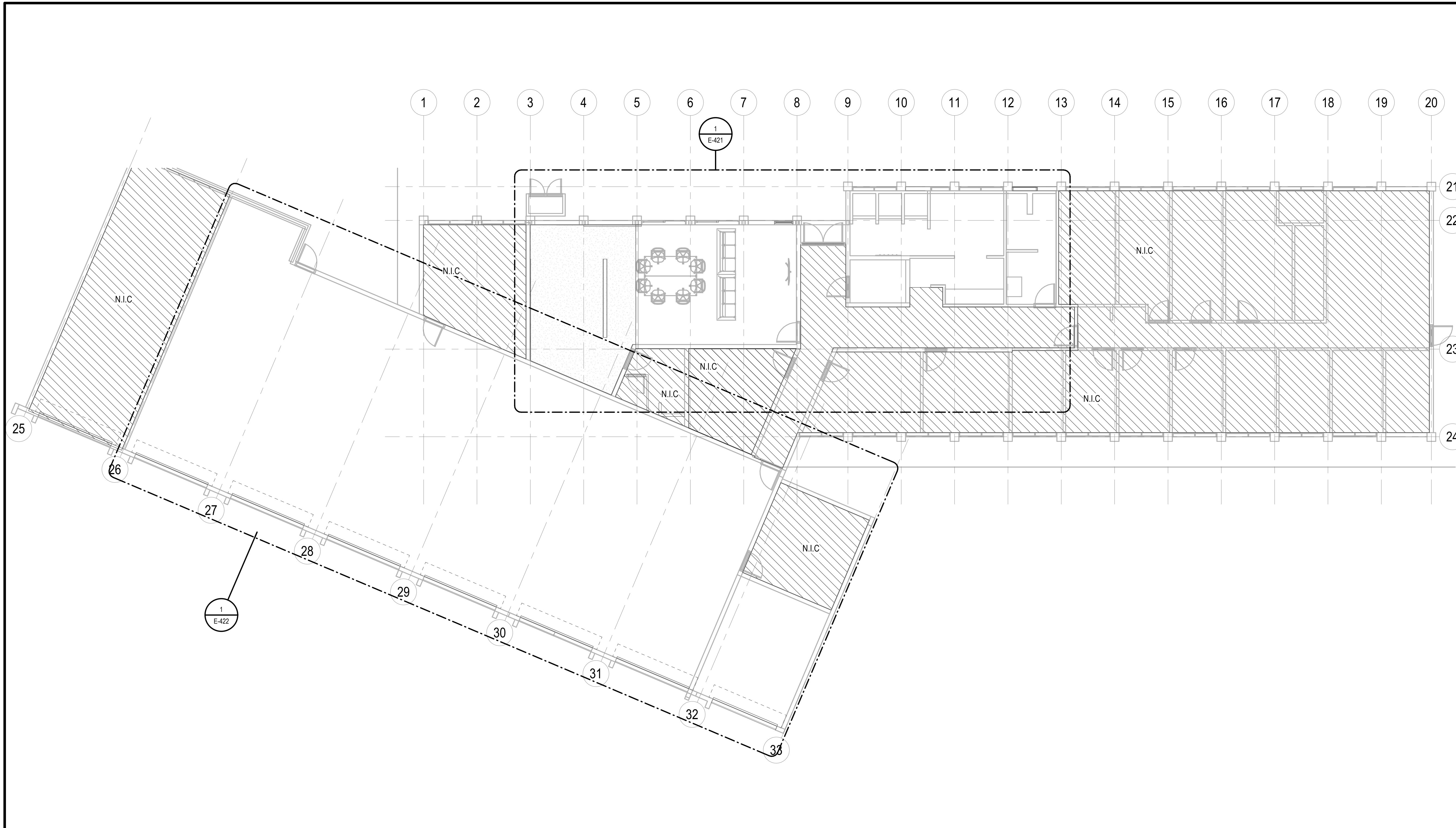
DATE :	DWG. NO.
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01 MAY 2024

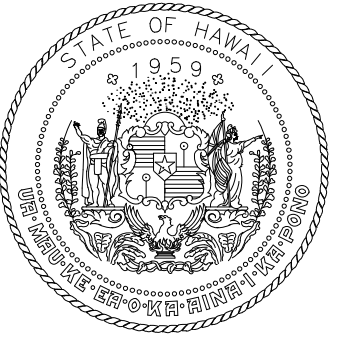
SHEET :

50 OF 57 SHEETS

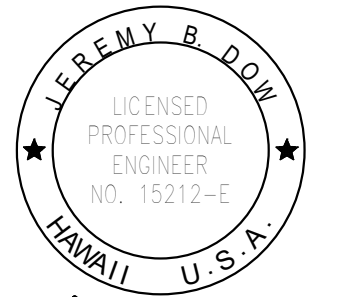
**E-111**



1 FIRST FLOOR REFLECTED CEILING PLAN  
1/8" = 1'-0"



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DEPARTMENT OF TRANSPORTATION  
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DL	DL	JH	JBD

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

**PROJECT TITLE :**

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

**PROJECT NO.:**

**CO4420-33**

**SHEET TITLE:**

**FIRST FLOOR REFLECTED CEILING PLAN**

DATE :	DWG. NO.
--------	----------

01 MAY 2024

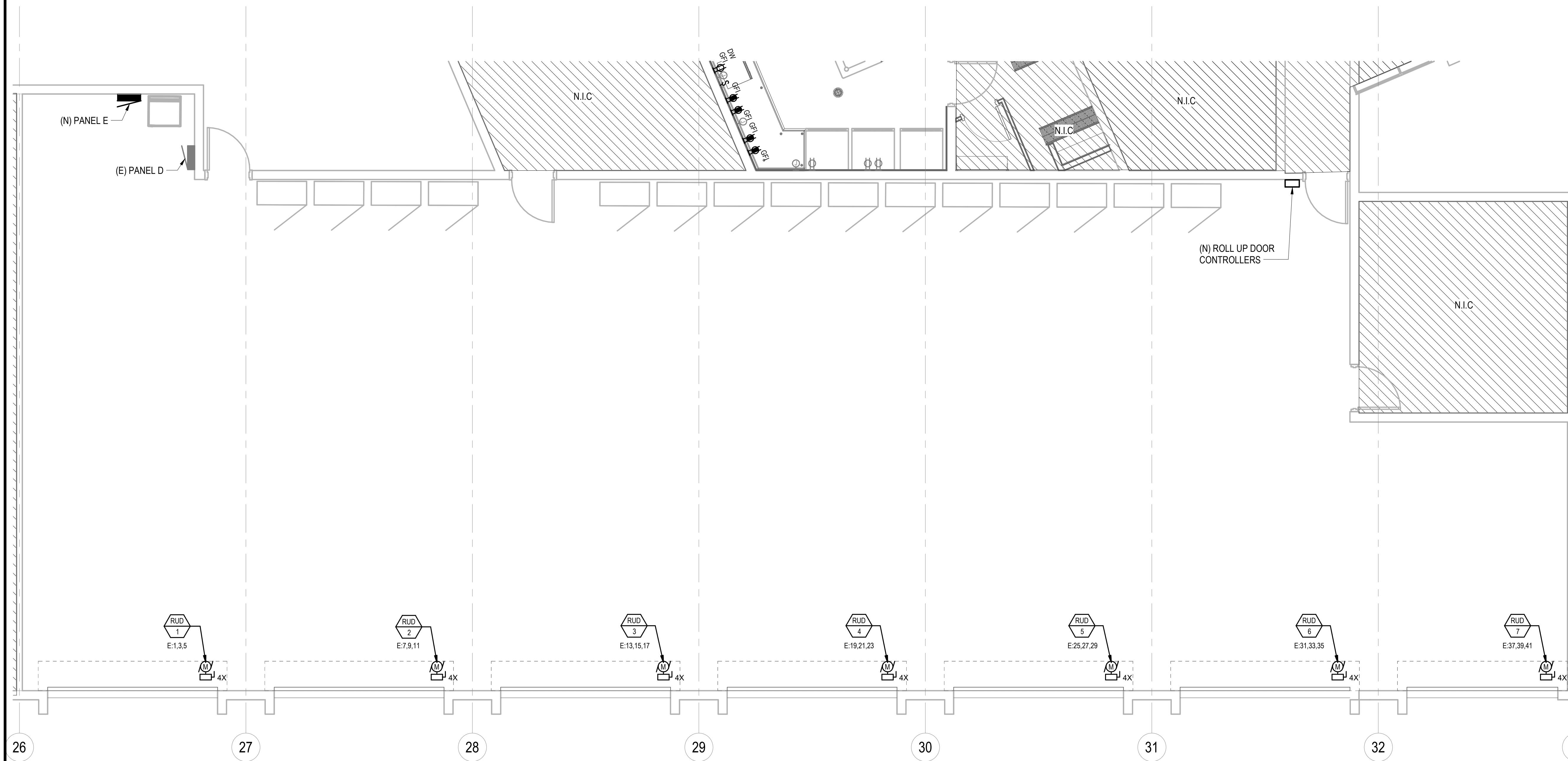
SHEET :

**E-121**

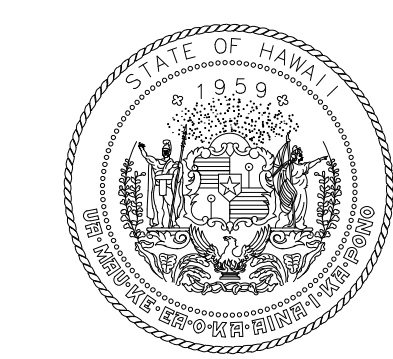
51 OF 57 SHEETS



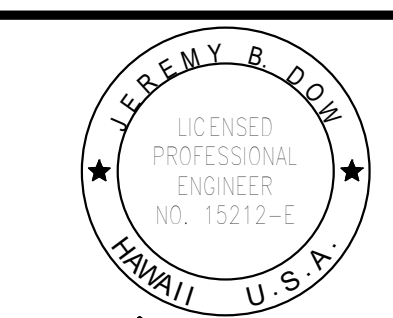




1 ENLARGED APPARATUS BAY POWER PLAN A  
1/4" = 1'-0"



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KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

MAY 2024  
DATE

PROJECT TITLE:

JRF ARFF STATION RENOVATIONS

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

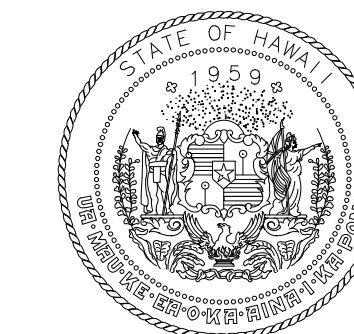
ENLARGED APPARATUS BAY POWER PLAN

DATE: 01 MAY 2024 DWG. NO.

SHEET: E-412

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



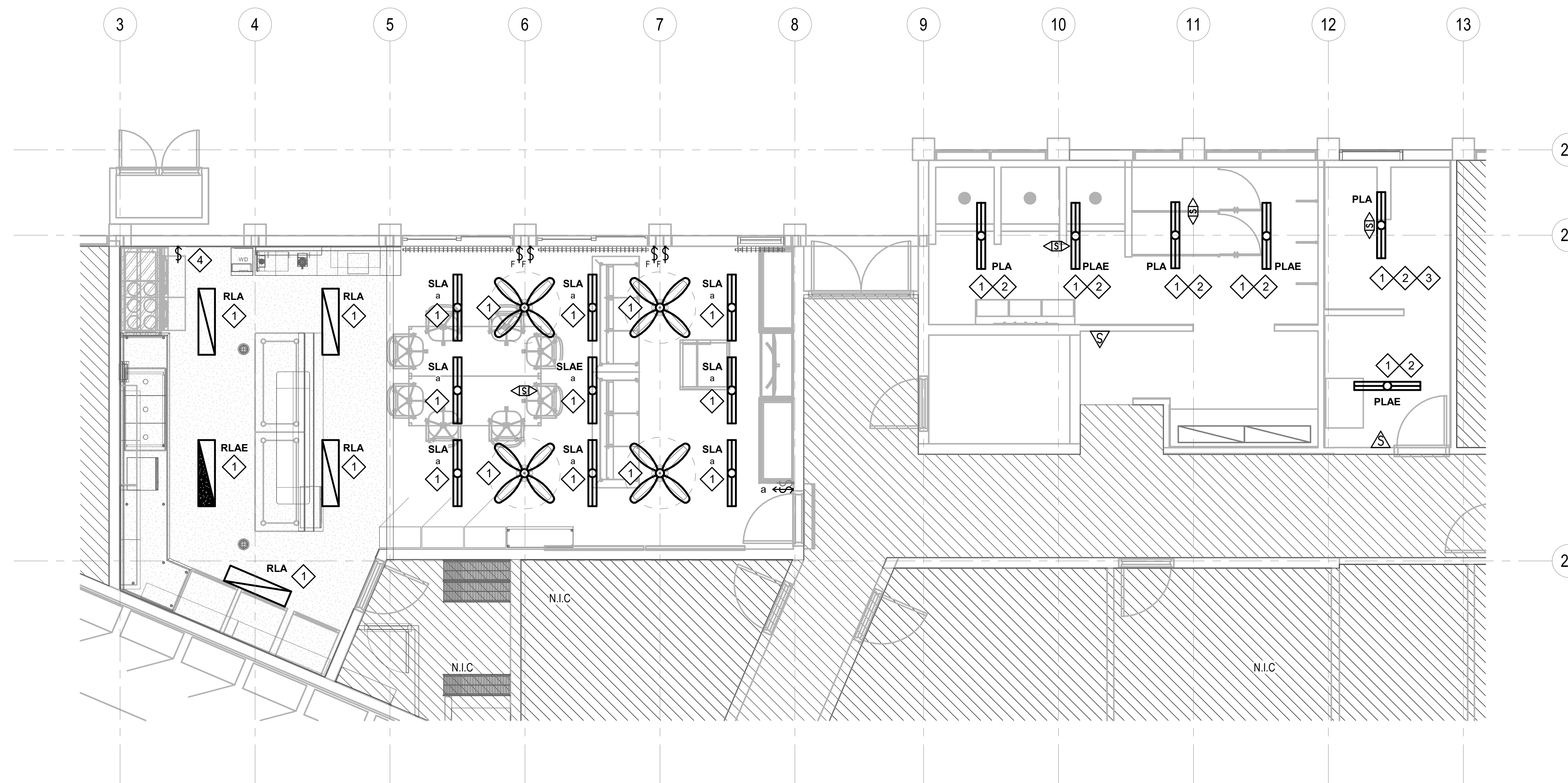
*Jeremy B. Dow*  
04/30/2026  
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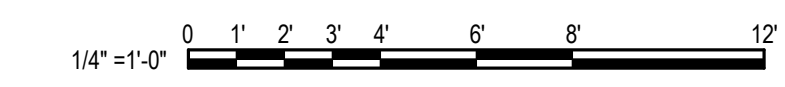
DSGN.	DRWN.	CHKD.	APPD.
DL	DL	JH	JBD

KEY PLAN / NOTES:

- KEY NOTES:
- 1 RECONNECT TO EXISTING CIRCUIT.
  - 2 ALIGN BOTTOM OF LIGHT FIXTURE WITH BOTTOM OF MECHANICAL DUCT.
  - 3 SELECT MID POWER LUMEN SETTING.
  - 4 NEW 316 STAINLESS STEEL COVERPLATE. INTERLOCK WITH HOOD AND EF-3.

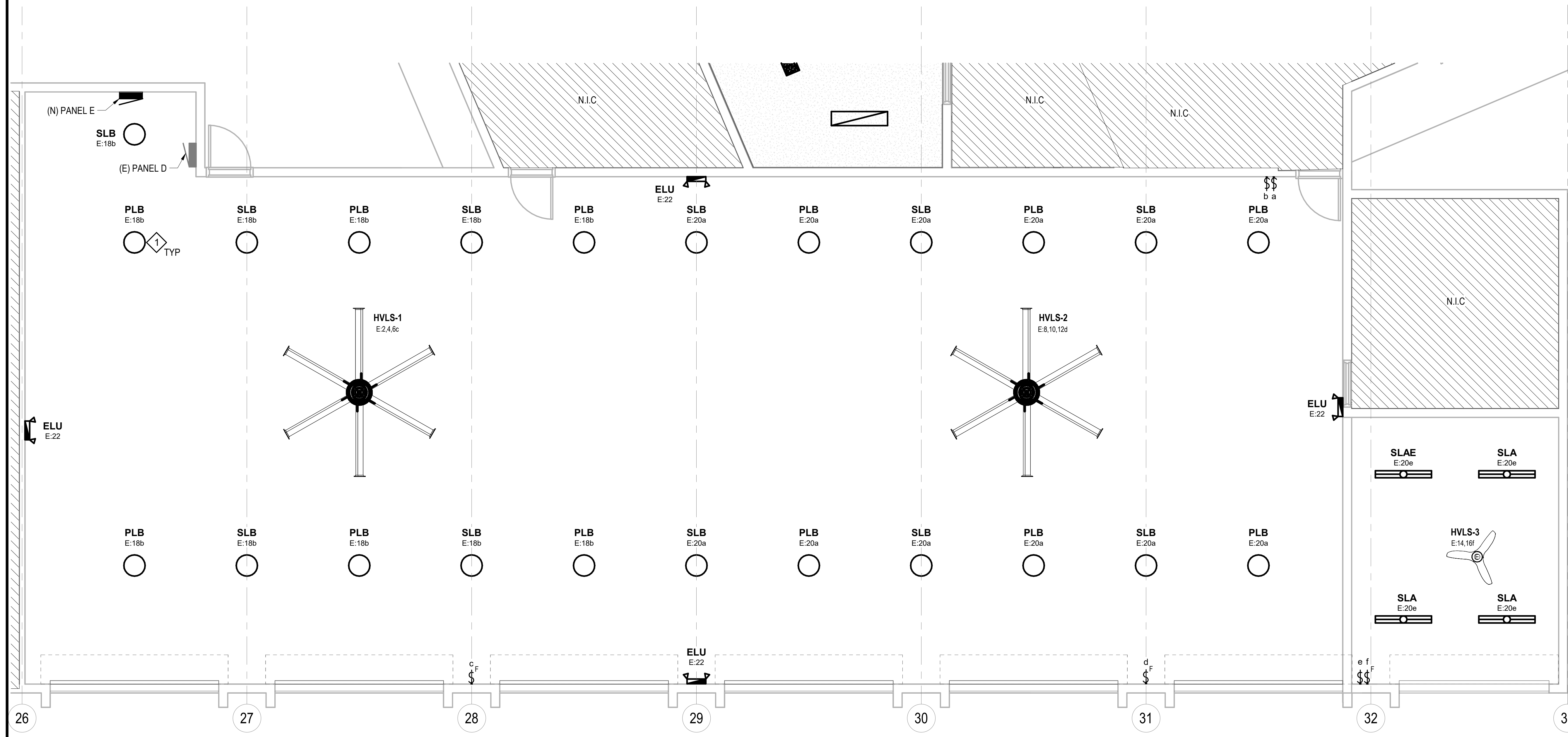


1 ENLARGED KITCHEN AND RESTROOM RCP PLAN  
1/4" = 1'-0"

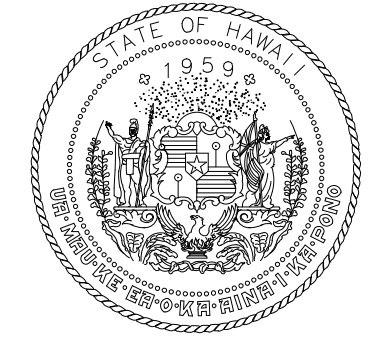
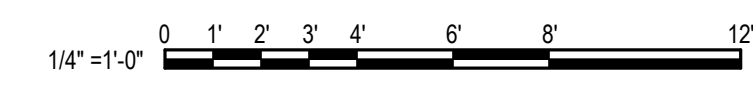


NO.	DATE	REVISIONS
<b>CONSTRUCTION DOCUMENTS</b>		
MAY 2024 DATE		
PROJECT TITLE :		
JRF ARFF STATION RENOVATIONS AT KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII		
PROJECT NO.:		
CO4420-33		
SHEET TITLE:		
ENLARGED KITCHEN AND RESTROOM RCP PLAN		
DATE :	DWG. NO.	
01 MAY 2024	E-421	
SHEET :	54 OF 57 SHEETS	

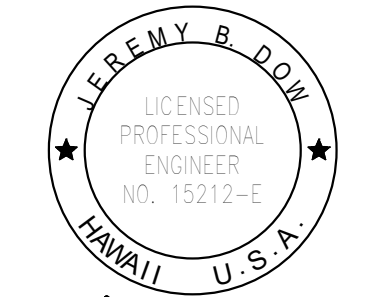
KEY NOTES:  
 1 ALIGN HEIGHT WITH FIXTURE TYPE "SLB"



1 ENLARGED APPARATUS BAY RCP PLAN  
 1/4" = 1'-0"



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DL	DL	JH	JBD

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

MAY 2024  
 DATE

PROJECT TITLE:

JRF ARFF STATION RENOVATIONS

AT  
 KALAELOA AIRPORT  
 KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

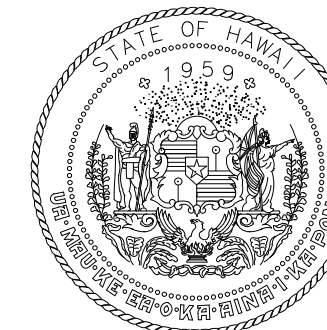
ENLARGED APPARATUS BAY RCP PLAN

DATE: 01 MAY 2024

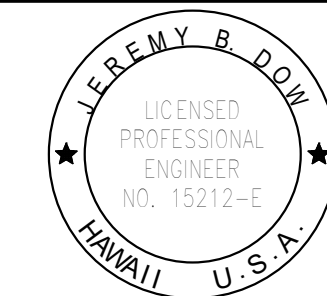
SHEET: E-422

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DL	DL	JH	JBD
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KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

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**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**ONE LINE DIAGRAM**

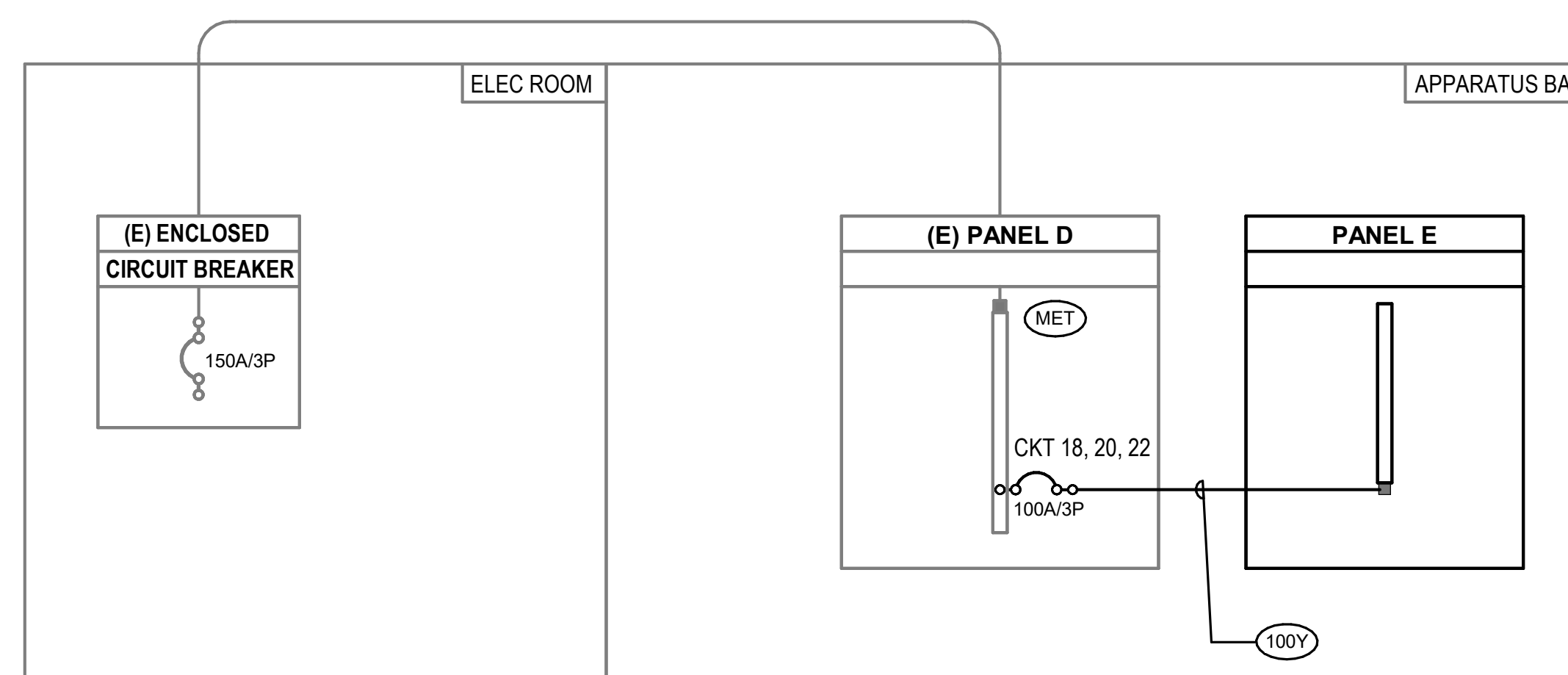
DATE :	DWG. NO.
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01 MAY 2024

SHEET : **E-601**

56 OF 57 SHEETS

KEYNOTE LEGEND	
Key Value	Keynote Text
100Y	1-1/2"Ø, 4#1, 1#8 GND
MET	PROVIDE A MINIMUM OF 30 DAY LOAD STUDY AT 15 MINUTE INTERVALS FOR EXISTING MAXIMUM DEMAND PER NEC 220.87.



**1 ONE LINE DIAGRAM**  
NOT TO SCALE

**Branch Panel: A**

Location: ELEC 105  
Supply From:  
Mounting: Surface  
Enclosure: Type 1

Volts: 208Y/120  
Phases: 3  
Wires: 4

A.I.C. Rating: 10000  
Mains Type: MCB  
Mains Rating: 225 A  
MCB Rating: 150 A

Notes:  
EXISTING WESTINGHOUSE PANEL. PROVIDE A MINIMUM OF 30 DAY LOAD STUDY AT 15 MINUTE INTERVALS FOR EXISTING MAXIMUM DEMAND PER NEC 220.87  
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	(E) BREAKER	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET BY BUNK RM DR	1 2
3	R-KITCHEN COUNTER	20 A	1		720 VA	0 VA		1	20 A (E) OUTLET LATRINE	1 4
5	(E) BREAKER	20 A	1			0 VA	0 VA	1	20 A (E) ALARM WATCH OFFICE	1 6
7	(E) S/D	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET APPAR	1 8
9	(E) BREAKER	20 A	1		0 VA	0 VA		1	20 A (E) S/D RW EWA	1 10
11	(E) BREAKER	20 A	1			0 VA	0 VA	1	20 A (E) WASHING MACHINE	1 12
13	R-REFRIGERATOR #3	20 A	1	180 VA	0 VA			1	20 A (E) OUTLET STA CHIEF	1 14
15	R-DISHWASHER	20 A	1		500 VA	0 VA		1	20 A (E) S/D EWA	1 16
17	R-MICROWAVE	20 A	1			500 VA	0 VA	1	20 A (E) OUTLET BUNK RM	1 18
19	(E) BREAKER	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET APPAR	1 20
21	R-REFRIGERATOR #1	20 A	1		180 VA	0 VA		1	20 A (E) OUTLET APPAR	1 22
23	R-REFRIGERATOR #2	20 A	1			180 VA	0 VA	1	20 A (E) BUNK RM	1 24
25	(E) EXT FAN HOOD LTS	20 A	1	0 VA	0 VA			1	20 A (E) PA SYSTEM	1 26
27	R-COFFEE MACHINE	20 A	1		180 VA	180 VA		1	20 A R-WATER DISPENSER	1 28
29	R-DISPOSAL	20 A	1			756 VA	0 VA	1	20 A (E) OUTLET BUNK RM	1 30
31	(E) BREAKER	20 A	1	0 VA	180 VA			1	20 A R-COFFEE MAKER	1 32
33	(E) BREAKER	20 A	1		0 VA	0 VA		1	20 A (E) OUTLET LT MECH SHOP	1 34
35	(E) BREAKER	20 A	1			0 VA	0 VA	1	20 A (E) ELEC GATE	1 36
37	(E) BREAKER	20 A	1	0 VA	0 VA			2	30 A (E) DRYER	1 38
39	(E) SODA	20 A	1		0 VA	0 VA		1	20 A (E) DRYER	1 40
41	(E) BREAKER	20 A	1			0 VA	1176 VA	1	20 A SF-1	2 42
<b>Total Load:</b>				1963 VA	3363 VA	4215 VA				
<b>Total Amps:</b>				16 A	30 A	37 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	756 VA	85.00%	643 VA	
HVAC	5986 VA	100.00%	5986 VA	<b>Total Conn. Load:</b> 9542 VA
Receptacle, GP, NEC 220.44	2800 VA	100.00%	2800 VA	<b>Total Est. Demand:</b> 9428 VA
				<b>Total Conn.:</b> 26 A
				<b>Total Est. Demand:</b> 26 A

Notes:

**Branch Panel: D**

Location: APPARATUS BAY 108  
Supply From:  
Mounting: Surface  
Enclosure: Type 1

Volts: 208Y/120  
Phases: 3  
Wires: 4

A.I.C. Rating: 10000  
Mains Type: MCB  
Mains Rating: 225 A

Notes:  
EXISTING GE PANEL. PROVIDE A MINIMUM OF 30 DAY LOAD STUDY AT 15 MINUTE INTERVALS FOR EXISTING MAXIMUM DEMAND PER NEC 220.87  
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				0 VA	0 VA					2
3	(E) MAKO	50 A	3		0 VA	0 VA		3	50 A (E) COMP OUTSIDE	4
5						0 VA	0 VA			6
7				0 VA	0 VA			1	20 A (E) CONTROLLER	8
9	(E)	50 A	3		0 VA	0 VA		1	20 A (E)	10
11						0 VA	0 VA	1	20 A (E)	12
13	(E) DRYER OUTLET	30 A	2	0 VA	0 VA			1	20 A (E)	14
15					0 VA	0 VA		1	20 A (E)	16
17						0 VA	9,551 VA			18
19	(E) MECH PNEUMATIC LIFT	20 A	3	0 VA	8,224 VA			3	100 A (N) PANEL E	20
21					0 VA	9,341 VA				22
23	(E) DROP C	20 A	1			0 VA	0 VA	1	20 A SPARE	24
25	(E) DROP C	20 A	1	0 VA	0 VA			1	20 A (E) RECEPTACLES	26
27	(E) DROP C	20 A	1		0 VA	--	--	1	-- PFB	28
29	PFB	--	1		--	--	--	1	-- PFB	30
<b>Total Load:</b>				8,224 VA	9,341 VA	9,551 VA				
<b>Total Amps:</b>				69 A	79 A	81 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2724 VA	125.00%	3405 VA	
Motor	17388 VA	103.57%	18009 VA	<b>Total Conn. Load:</b> 27105 VA
HVAC	7220 VA	100.00%	7220 VA	<b>Total Est. Demand:</b> 28356 VA
				<b>Total Conn.:</b> 75 A
				<b>Total Est. Demand:</b> 79 A

Notes:

**Existing Panel: B**

Location: ELEC 105  
Supply From:  
Mounting: Surface  
Enclosure: Type 1

Volts: 208Y/120  
Phases: 3  
Wires: 4

A.I.C. Rating: 10000  
Mains Type: MCB  
Mains Rating: 225 A  
MCB Rating: 150 A

Notes:  
EXISTING WESTINGHOUSE PANEL  
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	(E) DORM LIGHTS	20 A	1	0 VA	0 VA			1	20 A (E)	2
3	(E) DORM LIGHTS	20 A	1		0 VA	0 VA		1	20 A (E)	4
5	(E)	20 A	1			0 VA	0 VA	1	20 A (E) CORRIDOR LIGHTS	6
7	(E)	20 A	1	0 VA	0 VA			1	20 A (E)	8
9	(E)	20 A	1		0 VA	0 VA		1	20 A (E)	10
11	(E) ALARM FOR LIGHT	20 A	1			0 VA	0 VA	1	20 A (E)	12
13				0 VA	0 VA			1	20 A (E)	14
15	(E) Spare	20 A	3			0 VA	0 VA	2	40 A (E)	16
17						0 VA	0 VA			18
19	PFB	--	1	--	0 VA					20
21	R-EXTERIOR	20 A	1		180 VA	0 VA		2	20 A (E)	22
23	(E) W/D #1	30 A	2	0 VA	0 VA		0 VA	1	20 A (E)	24
25										26
27	(E) W/D #2	30 A	2		0 VA	0 VA		3	20 A (E)	28
29						0 VA	0 VA			30
31				0 VA	0 VA					32
33	(E)	30 A	3		0 VA	0 VA		2	60 A (E)	34
35						0 VA	--	1	-- PFB	36
<b>Total Load:</b>				0 VA	180 VA	0 VA				
<b>Total Amps:</b>				0 A	2 A	0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle, GP, NEC 220.44	180 VA	100.00%	180 VA	<b>Total Conn. Load:</b> 180 VA
				<b>Total Est. Demand:</b> 180 VA
				<b>Total Conn.:</b> 0 A
				<b>Total Est. Demand:</b> 0 A

Notes:

**Branch Panel: E**

Location: APPARATUS BAY 108  
Supply From: D  
Mounting: Surface  
Enclosure: Type 1

Volts: 208Y/120  
Phases: 3  
Wires: 4

A.I.C. Rating: 10000  
Mains Type: MLO  
Mains Rating: 100 A

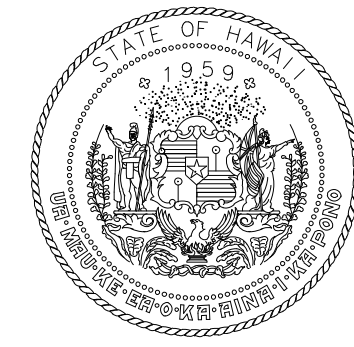
Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				828 VA	1,200 VA					2
3	ROLL UP DOOR #1	20 A	3		828 VA	1,200 VA		3	20 A HVLS-1	4
5						828 VA	1,200 VA			6
7				828 VA	1,200 VA					8
9	ROLL UP DOOR #2	20 A	3		828 VA	1,200 VA		3	20 A HVLS-2	10
11						828 VA	1,200 VA			12
13				828 VA	10 VA					14
15	ROLL UP DOOR #3	20 A	3		828 VA	10 VA		2	20 A HVLS-3	16
17						828 VA	1,254 VA	1	20 A L-APPARATUS BAY	18
19				828 VA	1,454 VA			1	20 A L-APPARATUS BAY	20
21	ROLL UP DOOR #4	20 A	3		828 VA	18 VA		1	20 A L-EMERGENCY LIGHTS	22
23						828 VA	0 VA	1	20 A Spare	24
25				828 VA	0 VA			1	20 A Spare	26
27	ROLL UP DOOR #5	20 A	3		828 VA	0 VA		1	20 A Spare	28
29						828 VA	0 VA	1	20 A Spare	30
31				828 VA	0 VA			1	20 A Spare	32
33	ROLL UP DOOR #6	20 A	3		828 VA	--		1	-- PFB	34
35						828 VA	--	1	-- PFB	36
37				828 VA	--			1	-- PFB	38
39	ROLL UP DOOR #7	20 A	3		828 VA	--		1	-- PFB	40
41						828 VA	--	1	-- PFB	42
<b>Total Load:</b>				9,551 VA	8,224 VA	9,341 VA				
<b>Total Amps:</b>				81 A	69 A	79 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2724 VA	125.00%	3405 VA	
Motor	17388 VA	103.57%	18009 VA	<b>Total Conn. Load:</b> 27105 VA
HVAC	7220 VA	100.00%	7220 VA	<b>Total Est. Demand:</b> 28356 VA
				<b>Total Conn.:</b> 75 A
				<b>Total Est. Demand:</b> 79 A

Notes:



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



This work was prepared by me or under my supervision.

DSGN. DRWN. CHKD. APPD.

DL DL JH JBD

**KEY PLAN / NOTES:**

NO. DATE REVISIONS

**CONSTRUCTION DOCUMENTS**

MAY 2024  
DATE

PROJECT TITLE :

**JRF ARFF STATION RENOVATIONS**

AT  
KALAELOA AIRPORT  
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

**CO4420-33**

SHEET TITLE:

**PANEL SCHEDULE**

DATE : DWG. NO.

01 MAY 2024

SHEET : **E-602**

57 OF 57 SHEETS