

### AIR HANDLER SCHEDULE

MARK	MIN. REQ'D OUTPUT BTU/HR COOLING	MINIMUM A.C.F.M.	MINIMUM O.A.	EXT. S.P. IN.W.G.	WEIGHT	POWER	MCA	MOCP	MOTOR		REMARKS
									MINIMUM H.P.	FLA	
AHU 1	120,000	4000	EXISTING	0.50	425	208/60/1	9	15	2	2.4 (QTY 2)	WITH SEACOAST COATING DESIGN UNIT. TRANE MODEL TWE120B
AHU 2	120,000	4000	EXISTING	0.50	425	208/60/1	9	15	2	2.4 (QTY 2)	WITH SEACOAST COATING DESIGN UNIT. TRANE MODEL TWE120B
AHU 3	180,000	6000	1125	2"	1850	208/60/3	25	40	5	20	HORIZONTAL DRAW THRU CENTRAL STATION AIR HANDLING UNIT WITH UPBLAST DISCHARGE, DIRECT EXPANSION COIL, ANGULAR FILTER BOX, SEACOAST COATING AND CONDENSATE PUMP. DESIGN UNIT: CARRIER MODEL 39MM-10.

- ① SEA LEVEL RATING
- ② FURNACE MARKS CORRESPOND WITH CONDENSING UNIT AND COOLING COIL MARKS.
- ③ TWO STAGE HEAT FURNACE. HIGH/LOW
- ④ VARIABLE SPEED ECM MOTOR.
- ⑤ ELECTRICAL CHARACTERISTICS - MOTOR: 115V/1PHASE/60HZ
- ⑥ 2-SPEED, DIRECT DRIVE PSC MOTOR.
- ⑦ SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIR FLOW.
- ⑧ SEE DETAIL G/M502.
- ⑨ SEE SPECIFICATION FOR APPROVED MANUFACTURERS
- ⑩ DOOR OPENINGS TO MATCH PLANS

### DIFFUSER SCHEDULE

MARK	C.F.M. RANGE	DIFFUSER SIZE	NECK CONN.	BLOW	PATTERN	AIR DIST./SIDE	
						A (%)	B (%)
D-1 CFM	350-625	15X15	12"Ø	1 WAY	□	100	0
D-2 CFM	300-400	18X18	14"Ø	4 WAY	⬠	50	50
D-3 CFM	50-125	6X6	6"Ø	4 WAY	⬠	50	50

### REGISTER, LOUVER & GRILLE SCHEDULE

MARK	TYPE	SERVICE	CFM RANGE	NOMINAL SIZE	REMARKS
RG-1	RETURN GRILLE	RA	300-450	12x12	CEILING
RG-2	RETURN GRILLE	RA	800	20x20	CEILING
RG-3	RETURN GRILLE	RA	50-150	8x8	CEILING
RG-4	RETURN GRILLE	RA	6000	48x30	CEILING
RG-5	RETURN GRILLE	RA	1600	18x18	SIDEWALL
RG-6	RETURN GRILLE	RA	225	10x6	SIDEWALL
SR-1	SIDEWALL REGISTER	SA	225	10x6	SIDEWALL
OL-1	OUTSIDE LOUVER	OA	1575	24x16	SIDEWALL

- REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:
- ① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
  - ② SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
  - ③ SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
  - ④ FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
  - ⑤ BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.
  - ⑥ SET REGISTER BLADES FOR AIR THROW TO BE WITHIN 5' FROM FLOOR AS RECOMMENDED BY MANUFACTURE.
  - ⑦ NOT USED
  - ⑧ BLADE ORIENTATION SHALL BE HORIZONTAL

### FAN UNIT SCHEDULE (COOLING ONLY)

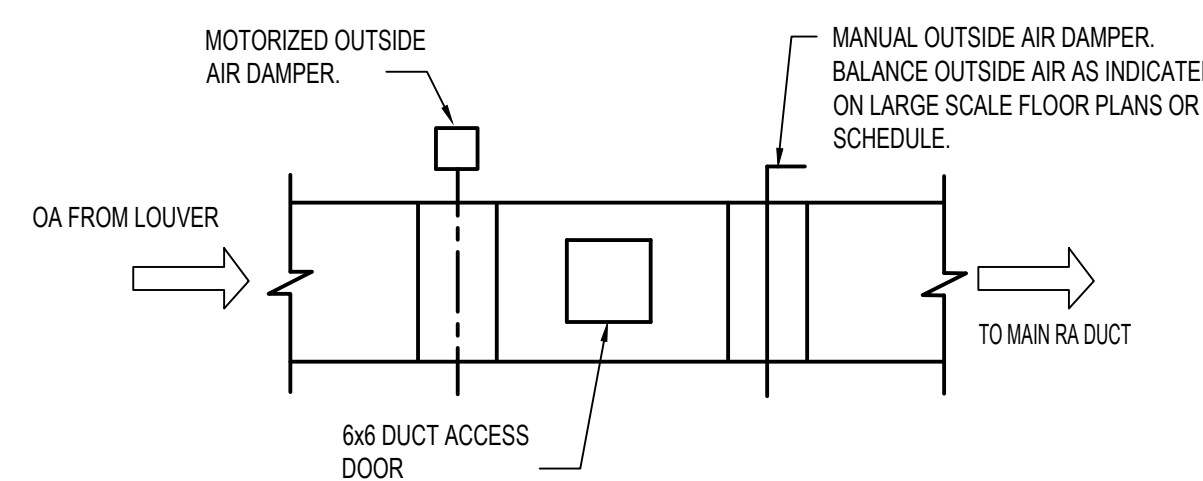
MARK	MIN. REQ'D OUTPUT COOLING BTU/HR	MINIMUM A.C.F.M.	MINIMUM O.A.	EXT. S.P. IN.W.G.	POWER MCA MOCP	MOTOR		REMARKS
						MINIMUM H.P.	SPEED	
FC 4	48,000	1600	250	0.3	208/60/1 5.4 15	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, AND SEACOAST COATING. DESIGN UNIT: CARRIER MODEL FV4C
FC 5	48,000	1600	250	0.3	208/60/1 5.4 15	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, AND SEACOAST COATING. DESIGN UNIT: CARRIER MODEL FV4C
FC 6	48,000	1600	250	0.3	208/60/1 5.4 15	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP AND SEACOAST COATING. DESIGN UNIT: CARRIER MODEL FV4C
FC 7	48,000	1600	250	0.3	208/60/1 5.4 15	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP AND SEACOAST COATING. DESIGN UNIT: CARRIER MODEL FV4C

- ① SEA LEVEL RATING
- ② FAN UNIT MARKS CORRESPOND WITH COMPRESSOR UNIT AND DX COIL MARKS.
- ③ SEE SPECIFICATION FOR APPROVED MANUFACTURERS
- ④ NOT USED
- ⑤ ELECTRICAL CHARACTERISTICS - MOTOR: 208V/1PHASE/60HZ
- ⑥ SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIR FLOW.
- ⑦ LOWER CFM TO EACH DIFFUSER APPROXIMATELY 86% ON PLANS FOR THE LOWER CFM OUTPUT

### CONDENSATE PUMP SCHEDULE

SYM.	GPH	HEAD	H.P.	CHAR.	RECEIVER SIZE	REMARKS
CP 1 THRU CP 3	60	10'	1/30	115/60/1	0.5 GALLON	LITTLE GIANT MODEL VCMX-20ULS WITH 6'-0" POWER CORD AND 3/4" DRAIN LINE

- ① SEE SPECIFICATIONS MODEL AND MANUFACTURER INFORMATION.



**TYPICAL OUTSIDE AIR DUCT DETAIL**

NO SCALE

### COMPRESSOR UNIT SCHEDULE (COOLING ONLY)

MARK	MIN. NOMINAL SIZE (TONS)	COMPRESSOR RATED LOAD AMPS	FAN FULL LOAD AMPS	MIN. CIRCUIT AMPS	MOCP	POWER	REMARKS
CU 1	10	15.9 (QTY 2)	2	39	50	208/60/3	MIN EER 11.2 WITH SEACOAST COATING
CU 2	10	15.9 (QTY 2)	2	39	50	208/60/3	MIN EER 11.2 WITH SEACOAST COATING
CU 3	15	47.9	3.5	66.9	100	208/60/3	MIN EER 10.8 WITH SEACOAST COATING
CU 4	4	21.8	1.45	28.8	50	208/60/1	WITH SEACOAST COATING. DESIGN UNIT: CARRIER MODEL 25HHA
CU 5	4	21.8	1.45	28.8	50	208/60/1	WITH SEACOAST COATING. DESIGN UNIT: CARRIER MODEL 25HHA
CU 6	4	21.8	1.45	28.8	50	208/60/1	WITH SEACOAST COATING. DESIGN UNIT: CARRIER MODEL 25HHA
CU 7	4	21.8	1.45	28.8	50	208/60/1	WITH SEACOAST COATING. DESIGN UNIT: CARRIER MODEL 25HHA

- ① REFRIGERANT R-410a
- ② AT DESIGN CONDITIONS AND 100°F ENTERING AIR TEMPERATURE TO CONDENSER.
- ③ CONDENSING UNIT MARKS CORRESPOND WITH DX COIL AND FURNACE MARKS.
- ④ ELECTRICAL CHARACTERISTICS-COMPRESSOR: 208V/3 PHASE/60HZ
- ⑤ SEE SPECIFICATION FOR APPROVED MANUFACTURERS
- ⑥ ELECTRICAL CHARACTERISTICS-COMPRESSOR: 208V/1 PHASE/60HZ

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Expiration date of license: 04/30/22

This work was prepared by me or under my supervision. Construction of this project will be under my observation.  
*Dwayne C. Sweeney*  
Dwayne C. Sweeney  
Professional Engineer  
License No. 11515  
Professional Engineer  
Professional Architect

Project Name:  
**KALIHI RE-ROOF AND HVAC REFURBISHMENT**  
HONOLULU, HAWAII WEST STAKE  
TMK: 1-3-005-17  
1120 Kalia St. (1723 Beckley St.) Honolulu, HI 96819

Owner:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

1	09-01-2021	BID SET	Description

Project Number:  
PCA-2013  
Plan Series:  
EXISTING  
Property Number:  
500-0031-919010101

Sheet Title:  
**MECHANICAL SCHEDULES**

Sheet:  
**M201**

Aug 27, 2021

**Engineered Systems Associates**

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