

REGISTER, LOUVER & GRILLE SCHEDULE

MARK	TYPE	SERVICE	CFM RANGE	NOMINAL SIZE	REMARKS
RG-1	RETURN GRILLE	RA	150-350	12x12	
RG-2	RETURN GRILLE	RA	360-450	12x12	
RG-3	RETURN GRILLE	RA	1600	60x12	
RG-4	RETURN GRILLE	RA	2000	32x30	
SR-1	SIDEWALL REGISTER	SA	800	36x6	WITH BUILT IN DAMPER
SR-2	SIDEWALL REGISTER	SA	400	14x10	WITH BUILT IN DAMPER

- REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:
- MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
 - SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
 - SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
 - FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
 - BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - SET REGISTER BLADES FOR AIR THROW TO BE WITHIN 5' FROM FLOOR AS RECOMMENDED BY MANUFACTURE.
 - SHEET METAL CONTRACTOR TO PROVIDE A TRANSIZE FROM 8" NECK TO 10" FLEX DUCT WHERE REQUIRED.
 - BLADE ORIENTATION SHALL BE HORIZONTAL.

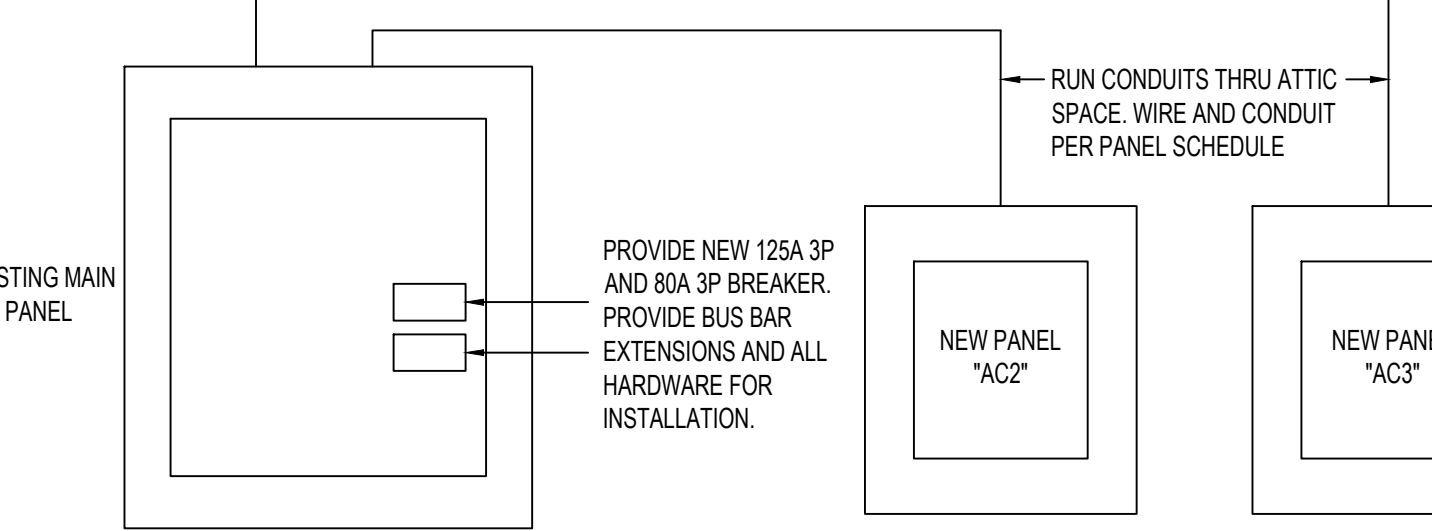
DIFFUSER SCHEDULE

MARK	C.F.M. RANGE	DIFFUSER SIZE	NECK CONN.	BLOW	PATTERN	AIR DIST./SIDE	
						A (%)	B (%)
D-1 CFM	170 - 225	9x9	8"Ø	3 WAY		33	33
D-2 CFM	340-500	12x12	10"Ø	3 WAY		33	33
D-3 CFM	340-500	12x12	10"Ø	4 WAY		25	25

OUTSIDE VENTILATION AIR REQUIREMENTS

FURNACES OUTDOOR REQUIREMENT AS PER ASHRAE 62.1

COVERED SQ. FT.	CFM PER SQ. FT.	OUTDOOR AIR CFM	OCCUPANCY CLASSIFICATION	
FC 1	1000	.12	120	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 2	770	.12	115	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 3	915	.12	120	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 4	1100	.12	130	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 5	1200	.12	145	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 6 THRU FC 7	1425	.12	170	MULTIPURPOSE ASSEMBLY ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 8 THRU FC 9	1425	.12	170	MULTIPURPOSE ASSEMBLY ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 10	850	.12	105	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 11	780	.12	100	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2
FC 12	850	.12	100	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2



POWER RISER DIAGRAM
NO SCALE

FAN UNIT SCHEDULE (COOLING ONLY)

MARK	MIN. REQ'D OUTPUT BTU/HR	MINIMUM A.C.F.M.	MINIMUM O.A.	EXT. S.P. IN.W.G.	MOTOR		REMARKS
					MINIMUM H.P.	SPEED	
F 1	48,000	1600	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 2	48,000	1600	110	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 3	48,000	1600	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 4	36,000	1200	110	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 5	60,000	2000/1725	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 6	60,000	2000/1725	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 7	60,000	2000/1725	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 8	60,000	2000/1725	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 9	60,000	2000/1725	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 10	36,000	1200	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 11	48,000	1600	110	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING
F 12	36,000	1200	150	0.3	3/4	HIGH	WITH CONDENSATE OVERFLOW PROTECTION, CONDENSATE PUMP (IF REQUIRED), AND SEACOAST COATING

- SEA LEVEL RATING
- FAN UNIT MARKS CORRESPOND WITH COMPRESSOR UNIT AND DX COIL MARKS.
- SEE SPECIFICATION FOR APPROVED MANUFACTURERS
- VARIABLE SPEED ECM MOTOR.
- ELECTRICAL CHARACTERISTICS - MOTOR: 115V/1PHASE/60HZ
- SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIR FLOW.
- LOWER CFM TO EACH DIFFUSER APPROXIMATELY 86% ON PLANS FOR THE LOWER CFM OUTPUT

COMPRESSOR UNIT SCHEDULE (COOLING ONLY)

MARK	MIN. NOMINAL SIZE (TONS)	COMPRESSOR RATED LOAD AMPS	MCOP	MIN. CIRCUIT AMPS	WIRE SIZE	REMARKS
CU 1	4.0	13.7	30	18.8	3#10 1#10 GND	WITH SEACOAST COATING
CU 2	4.0	13.7	30	18.8	3#10 1#10 GND	WITH SEACOAST COATING
CU 3	4.0	13.7	30	18.8	3#10 1#10 GND	WITH SEACOAST COATING
CU 4	3.0	10.4	20	22.0	3#12 1#12 GND	WITH SEACOAST COATING
CU 5	5.0	15.6	35	21.3	3#10 1#10 GND	WITH SEACOAST COATING
CU 6	5.0	15.6	35	21.3	3#10 1#10 GND	WITH SEACOAST COATING
CU 7	5.0	15.6	35	21.3	3#10 1#10 GND	WITH SEACOAST COATING
CU 8	5.0	15.6	35	21.3	3#10 1#10 GND	WITH SEACOAST COATING
CU 9	5.0	15.6	35	21.3	3#10 1#10 GND	WITH SEACOAST COATING
CU 10	3.0	10.4	20	22.0	3#12 1#12 GND	WITH SEACOAST COATING
CU 11	4.0	13.7	30	18.8	3#10 1#10 GND	WITH SEACOAST COATING
CU 12	3.0	10.4	20	22.0	3#12 1#12 GND	WITH SEACOAST COATING

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

REFRIGERANT LINE SIZES

SYSTEM SIZE	LIQUID	SUCTION
FC-1	3/8"	5/8"
FC-2	3/8"	5/8"
FC-3	3/8"	5/8"
FC-4	3/8"	5/8"
FC-5	1/2"	7/8"
FC-6	1/2"	7/8"
FC-7	1/2"	7/8"
FC-8	1/2"	7/8"
FC-9	1/2"	7/8"
FC-10	1/2"	7/8"
FC-11	3/8"	5/8"
FC-12	5/8"	7/8"

* REFER TO COMPRESSOR UNIT SCHEDULE THIS SHEET FOR SYSTEM SIZES.

PANEL "AC3"

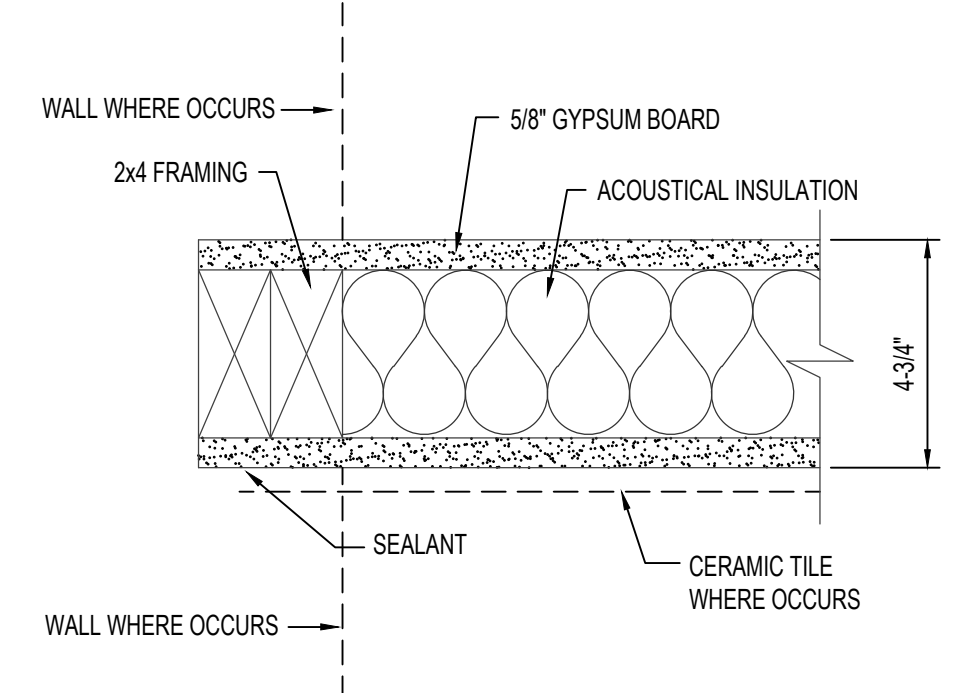
LOCATION: OUTSIDE
VOLT./PHASE: 120/208V 3Ø
TYPE: NEMA 3R

QUANTITY	SCHEDULE	CR NO	LOAD WATTS	BREAKER POLE AMP	LOAD/POLE			BREAKER POLE AMP	LOAD WATTS	CR NO	SCHEDULE	QUANTITY
					A	B	C					
1	FC-1	1	1440	1 20	3288	-	-	3 30	1848	2	CU-1	1
1	FC-2	3	1440		3288	-	-	-	1848	4	-	-
1	FC-3	5	1440		3288	-	-	-	1848	6	-	-
2	STORAGE 128	7	360		2208	-	-	3 30	1848	8	CU-2	1
1	OUTDOOR RECEPTACLE	9	180		2028	-	-	-	1848	10	-	-
		11	-	-	-	-	-	-	1848	12	-	-
		13	-	-	1848	-	-	3 30	1848	14	CU-3	1
		15	-	-	-	-	-	-	1848	16	-	-
		17	-	-	-	-	-	-	1848	18	-	-
		19	-	-	-	-	-	-	20	-	-	-
S.C. INT. CAP 22,000 AMPS					TOTAL WATTS 7,344 7,164 6,984			FEEDER BRKR. SIZE 80		CONDUIT 1-1/4"		
NOTES: MATCH EXISTING					TOTAL AMPS 61 60 58			CONDUITORS 3#4, 1#8, 1#8 GND				

PANEL "AC2"

LOCATION: OUTSIDE
VOLT./PHASE: 120/208V 3Ø
TYPE: NEMA 3R

QUANTITY	SCHEDULE	CR NO	LOAD WATTS	BREAKER POLE AMP	LOAD/POLE			BREAKER POLE AMP	LOAD WATTS	CR NO	SCHEDULE	QUANTITY
					A	B	C					
1	CU-6	1	2076	3 35	4152	-	-	3 35	2076	2	CU-9	1
		3	2076	-	4152	-	-	-	2076	4	-	-
		5	2076	-	-	-	-	-	2076	6	-	-
1	CU-7	7	2076	3 35	3924	-	-	3 30	1848	8	CU-11	1
		9	2076	-	3924	-	-	-	1848	10	-	-
		11	2076	-	-	-	-	-	1848	12	-	-
1	CU-8	13	2076	3 35	3444	-	-	3 20	1368	14	CU-10	1
		15	2076	-	3444	-	-	-	1368	16	-	-
		17	2076	-	-	-	-	-	1368	18	-	-
2	OUTDOOR RECEPTACLE	19	360	1 20	360	-	-	-	20	-	-	-
		21	-	-	-	-	-	-	22	-	-	-
		23	-	-	-	-	-	-	24	-	-	-
S.C. INT. CAP 22,000 AMPS					TOTAL WATTS 11,880 11,520 11,520			FEEDER BRKR. SIZE 125A		CONDUIT 2"		
NOTES: MATCH EXISTING					TOTAL AMPS 99 96 96			CONDUITORS (3)#10, (1)#6, (1)#6 GND				



WALL INFILL
SCALE: 3" = 1'-0"

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HVAC UPGRADE FOR:
LDS LAIE 1,8,9
55-1109 LANIHULI ST
LAIE, HAWAII

PROJECT: PROPERTY # 521-1514 ZONE 5 | SEC 5 | PLAT 004 | PARCEL 15

MECHANICAL SCHEDULES

DRWN. BY: T DAVIS
CKD. BY: D. SUDWEEKS

JOB NO: 20040
DATE: NOV 2020

SHEET: ME3.0
OF: 13