

DUCTLESS DIRECT EXPANSION FAN COIL UNIT:

WALL-MOUNTED DIRECT EXPANSION FAN COIL UNIT CONSISTING OF HIGH IMPACT POLYMER CABINET, MULTI-SPEED CENTRIFUGAL BLOWER, R-410A REFRIGERANT, COPPER TUBE / ALUMINUM FIN DIRECT EXPANSION COOLING COIL, MINIMUM SYSTEM PERFORMANCE OF 15.0 SEER. PROVIDE WITH HARD-WIRED CONTROLLER. DISCONNECT SWITCH BY ELECTRICIAN.

QUAN.		FCU	TYPE	TBTUH	SBTUH		CFM		ENT	AIR	TZZ		PO	WER SUF	PPLY	The second secon	PIPING ARE)	MITSUBISHI	REMARKS
worm.				121011	321011	HIGH	MED	LDW	*FDB	*FWB	331	WATTS	AMPS	MOCP	VOLT/PH/HZ		GAS	MODEL PKFY-	REMARKS
5	2-1E, 2-1F, 2-1J	, 2-1N, 2-5E, 2-5F DELETED	WALL-MOUNTED	8,000	5,440	210	190	170	80.0	67.0	40F	30	0.15	15	208-230/1/60	1/4"	1/2"	P08NBMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
2	2-1K	, 2-1M	WALL-MOUNTED	12,000	8,160	390	355	320	80.0	67.0	40F	30	0.30	15	208-230/1/60	1/4"	1/2"	P12NHMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
2	2-5D	, 2-5H	WALL-MOUNTED	15,000	10,200	415	370	320	80.0	67.0	40F	30	030	15	208-230/1/60	1/4"	1/2"	P15NHMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
6	2-1A, 2-1D, 2-4F	2-5C, 2-5G, 2-5J	WALL-MOUNTED	18,000	12,240	425	370	320	80.0	67.0	40F	30	0.30	15	208-230/1/60	1/4"	1/2"	P18NHMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
1	1-	3*	WALL-MOUNTED	18,000	12,240	425	370	320	80.0	67.0	40F	30	0.33	15	208-230/1/60*	1/4"	1/2"	PKA-A18HA4	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
16		B, 2-2C, 2-2D, 2-3A, 2-3C, D, 2-4E, 2-4H, 2-4J, 2-5A	WALL-MOUNTED	24,000	16,320	710		570	80.0	67.0	40F	40	0.29	15	208-230/1/60	3/8"	5/8*	P24NKMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
3	1-1,* 1-	2,*1-4 *	WALL-MOUNTED	24,000	18,480	775	705	635	80.0	67.0	40F	56	0.36	15	208-230/1/60*	3/8"	5/8*	PKA-A24KA4	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.
9	2-1B, 2-1G, 2- 2-4G, 2-5B,	LL, 2-3B, 2-4C, 2-5K, 2-5L	WALL-MOUNTED	30,000	20,400	850		710	80.0	67.0	40F	60	0.43	15	208-230/1/60	3/8"	5/8 ′	P30NKMU-E	PROVIDE CONDENSATE PUMP IF REQUIRED TO GET CONDENSATE TO BUILDING EXTERIOR.

INDIAN DOCILE22

*INDOOR DUCTLESS FAN COIL UNITS RECEIVE POWER FROM THEIR RESPECTIVE OUTDOOR CONDENSING UNITS THROUGH FIELD-INSTALLED INTERCONNECTED WIRING.

AIR-COOLED CONDENSING UNIT:

FACTORY ASSEMBLED AIR-COOLED CONDENSING UNIT COMPLETE WITH POWDER COATED GALVANIZED STEEL CABINET, COPPER TUBE/ALUMINUM FIN CONDENSER COIL, VARIABLE SPEED TEFC CONDENSER FAN MOTOR, REMOVABLE ACCESS PANELS, INVERTER-DRIVEN SCROLL OR ROTARY COMPRESSOR, R-410A REFRIGERANT, CONTROL SYSTEM SHALL INCLUDE HIGH PRESSURE SWITCH AND LOW PRESSURE SWITCH, FIVE-YEAR WARRANTY ON PARTS AND SEVEN-YEAR WARRANTY ON COMPRESSOR, CABINETS SHALL BE RECEIVE SEACOAST PROTECTION ABLE TO WITHSTAND 960 HOURS PER ASTM B117 CRITERIA, CONDENSER COIL SHALL BE FACTORY-COATED WITH BLUE FIN ANTI-CORROSION PROTECTION. PROVIDE NEOPRENE VIBRATION ISOLATION PADS. DISCONNECT SWITCHES BY ELECTRICIAN.

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ACCU	TOTAL CAPACITY	AMB	SOUND PRESSURE				CO	MPRESSE	1R		CE	INDENSE	R		POW	ER SUPF	PLY	MITSUBISHI MODEL	WEIGHT	SEER	REMARKS			
	(BTU/HR)		L EVEL	QTY	TYPE	VATTS	RLA	LRA	VOLT/PH/HZ	QTY	WATTS	FLA	VOLT/PH/HZ	AMPS	MCA	MOCP	VOLT/PH/HZ			(MINIMUM)				
1-1	24,000	95F	48 dB(A)	1	TWIN-ROTARY	2200	12.0	14.0	208-230/1/60	1	75	0.75	208-230/1/60	12.8	18.0	30	208-230/1/60	PUY-A24NHA4-(BS)	163 LBS.	15.0				
1-2	24,000	95F	48 dB(A)	1	TWIN-ROTARY	2200	12.0	14.0	208-230/1/60	1	75	0.75	208-230/1/60	12.8	18.0	30	208-230/1/60	PUY-A24NHA4-(BS)	163 LBS.	15.0				
1-3	18,000	95F	48 dB(A)	1	TWIN-ROTARY	2200	12.0	14.0	208-230/1/60	1	40	0.35	208-230/1/60	12.4	13.0	20	208-230/1/60	PUY-A18NHA4-(BS)	89 LBS.	15.0				
1-4	24,000	95F	48 dB(A)	1	TWIN-ROTARY	2200	12.0	14.0	208-230/1/60	1	75	0.75	208-230/1/60	12.8	18.0	30	208-230/1/60	PUY-A24NHA4-(BS)	163 LBS.	15.0				
2-1	216,000	95F	62.5 dB(A)	1	SCRULL	6800	19.0	22.2	208-230/3/60	1	920	2.60	208-230/1/60	24.5	36.0	50	208-230/3/60	PUHY-P216TSJMU-A-(BS)***	497 LBS.	15.0				
·				1	SCROLL	8100	22.5	26.3	208-230/3/60		920	2.60	208-230/1/60	30.5	49.0	70	208-230/3/60		629 LBS.					
2-2	96,000	95F	58 dB(A)	1	SCROLL	6800	19.0	22.2	208-230/3/60	1	920	2.60	208-230/1/60	24.5	36.0		208-230/3/60		497 LBS.	15.0				
2-3	96,000	95F	58 dB(A)	1	SCROLL	6800	19.0	22.2	208-230/3/60	1	920	2.60	208-230/1/60	24.5	36.0	50	208-230/3/60	PUHY-P96TJMU-A-(BS)	497 LBS.	15.0				
		<u> </u>		1	SCROLL	6800	19.0	22.2	208-230/3/60	1	920	2.60	208-230/1/60	24.5	36.0	50	208-230/3/60	***	497 LBS.					
2-4	216,000	95F	62.5 dB(A)	1	SCROLL	8100	22.5		208-230/3/60	2	920	2.60	208-230/1/60	30.5	49.0	70	208-230/3/60	PUHY-P216TSJMU-A-(BS)***	629 LBS.	15.0				
				1	SCRULL	5100	14.2	16.6	208-230/3/60	1	920	2.60	208-230/1/60	16.2	25.0	30	208-230/3/60	/3/60	/3/60	30/3/60	3/60	441 LBS.		
2-5	192,000	95F	62.5 dB(A)	1	SCROLL	8100	22.5		208-230/3/60	2	920	2.60	208-230/1/60	30.5	49.0	70	208-230/3/60	PUHY-P192TSJMU-A-(BS)**	629 LBS.	15.0				

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A/C CONDENSATE PUMP:

AUTOMATIC CONDENSATE PUMP UNIT, CENTRIFUGAL PUMP, 3/8" DISCHARGE WITH CHECK VALVE, 1/2 GALLON TANK CAPACITY, PROVIDE SAFETY SWITCH AND THERMAL OVERLOAD PROTECTION. INTERLOCK TO SHUT-DOWN A/C UNIT IF OVERFILL SAFETY SWITCH IS ACTIVATED.

QUAN.	СР	GPH	ТДН	HP	WATTS	VOLT/PH/HZ	LITTLE GIANT MODEL NO.	REMARKS
14	1	70	5.0 FT	1/30	115	208-230/1/60	VCMA-20	POWER FROM NEAREST FAN COIL UNIT DISCONNECT SWITCH

100% SUBMITTAL

CONFIDENTIALITY CLAUSE
THIS DESIGN IS BASED ON ECONOMY PLUMBING AND SHEETMETAL'S
DESIGN CONCEPT AND SHALL NOT BE SHARED WITH ANY THIRD PARTY

BUILDING 282 HIARNG FACILITIES KALEALOA INSTALLATION OF ENERGY EFFICIENT DUCTLESS SPLIT AIR CONDITIONING SYSTEM KAPOLEI, OAHU, HAWAII

CONTRACT NO.: KAPOLEI, OAHU, HAWAII

TASK ORDER NO.:

SCALE AS NOTED

DATE 6/22/2012

APPROVED BY

EQUIPMENT SCHEDULE

ECONOMY PLUMBING & SHEETMETAL, Inc.
1029 ULUPONO STREET (SAND ISLAND)
HONOLULU, HAWAII 96819

M-12

DRAWN BY MC

Job No. CA-1216

MODEL PUHY-P192TSJMU-A-(B\$) IS COMPRISED ON ONE (1) MODEL PUHY-P72TJMU-A-(B\$) & ONE (1) MODEL PUHY-P120TJMU-A-(B\$) CONDENSING UNITS. EACH CONDENSING UNIT NEEDS TO BE PROVIDED WITH SEPARATE POWER SUPPLY.

^{***}MODEL PUHY-P216TSJMU-A-(BS) IS COMPRISED ON ONE (1) MODEL PUHY-P96TJMU-A-(BS) & ONE (1) MODEL PUHY-P120TJMU-A-(BS) CONDENSING UNITS. EACH CONDENSING UNIT NEEDS TO BE PROVIDED WITH SEPARATE POWER SUPPLY.

DEMOLITION NOTES

- 1. EXISTING PLANS DO NOT INDICATE COMPLETE EXISTING WIRING CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- 2. BEFORE ANY WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO BE CUT TO ASSURE THAT SERVICES REQUIRED ARE NOT DISCONTINUED. PROVIDE ADDITIONAL WIRING DEVICES AND OTHER ACCESSORIES TO ENSURE CONTINUITY OF SERVICE TO OTHER PARTS OF INSTALLATION TO REMAIN.
- 3. REMOVE ALL EXISTING WIRING NOT TO REMAIN IN SERVICE.
- 4. REMOVE ALL CONDUITS NO LONGER REQUIRED.
- 5. PHASE WORK TO ASSURE CONTINUITY OF ELECTRICAL, TELEPHONE AND SIGNAL SERVICES TO PARTS OF FACILITIES THAT WILL REMAIN IN USE.
- 6. REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES AND SWITCHES INDICATED TO BE REMOVED OR NO LONGER REQUIRED. BLANK OUTLETS AND PLUG ALL HOLES IN BOXES AND CABINETS.
- 7. ABANDON CONDUITS BELOW GRADE NO LONGER REQUIRED. PULL OUT ALL WIRES IN ABANDONED CONDUITS.

ELECTRICAL SPECIFICATIONS

- 1. ENTIRE INSTALLATION TO CONFORM TO THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE, LOCAL ELECTRIC BUREAU AND LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR PERMITS AND DELIVER CERTIFICATES OF COMPLETION AND INSPECTION TO ARCHITECT.
- 2. MATERIALS AND WORKMANSHIP TO BE VERY BEST QUALITY OF ITS KIND.
- 3. SUBSTITUTE MATERIALS TO BE EQUAL IN QUALITY TO SPECIFIED ITEM. IF SUBSTITUTE MATERIALS ARE PROPOSED, SUBMIT SIX (6) COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. PROVIDE SAMPLES OF SUBSTITUTE MATERIALS, IF REQUESTED TO EVALUATE EQUALITY OF PROPOSED SUBSTITUTION.
- 4. GUARANTEE THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP. WHEN NOTIFIED BY THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION DURING THE GUARANTEE PERIOD, CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE PART AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER.
- 5. TESTING: AN OPERATIONAL TEST SHALL BE PERFORMED AFTER THE COMPLETION OF THE INSTALLATION, TO ASSURE PROPER OPERATION OF ALL ITEMS OF THE WORK.
- 6. INSTALLATION AND WORKMANSHIP:
- A. ALL WORK SHALL BE NEATLY EXECUTED, WORKMANLIKE IN APPEARANCE, SYMMETRICAL, PLUMB, UNIFORM, PROPERLY ALIGNED AND SECURED IN PLACE.
- B. WIRING METHODS:
- (1) USE EMT, IMC, OR CONDUIT IN DRY INTERIOR LOCATIONS AND USE CONDUIT IN
- (2) USE SEALTITE FLEX FOR CONNECTIONS TO EQUIPMENT.
- (3) ATTACH TO CONCRETE AND MASONRY WITH EXPANSION ANCHORS AND TO WOOD WITH WOOD SCREWS.
- (4) SUPPORT RACEWAYS PER NEC.
- (5) DO NOT SUPPORT RACEWAYS AND BOXES FROM AND ON MECHANICAL SYSTEM.
- (6) CABLES WILL NOT BE PERMITTED.
- C. CONDUCTORS:
- (1) CRIMP CONNECT ALL WIRES.
- (2) TAPE ALL SPLICES WITH SCOTCH NO. 33 VINYL TAPE OR EQUAL.
- (3) FORM WIRE NEATLY IN ENCLOSURES.
- (4) IDENTIFY CONDUCTORS BY COLOR CODE NEUTRAL WIRE TO BE WHITE AND GROUND WIRE TO BE GREEN.
- D. CUT, DRILL AND PATCH AS REQUIRED. REPAIR ANY SURFACES DAMAGED OR MARRED—CUTTING, REPAIRS AND REFINISHING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- E. CLEAN ALL SURFACES TO RECEIVE PAINT. PAINT ANY SURFACE DAMAGED DURING INSTALLATION.
- F. REPAIR ALL SURFACES DAMAGED DURING THE INSTALLATION OF THE WORK SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- G. COORDINATE WIRING REQUIREMENTS OF EQUIPMENT FURNISHED BY OTHERS PRIOR TO ROUGH—IN WORK. PROVIDE PROPER SIZE WIRING AND CONNECTIONS FOR ALL EQUIPMENT AS REQUIRED. PROVIDE DISCONNECTS FOR ALL MOTORIZED EQUIPMENT. PROVIDE STARTERS WITH OVERLOAD PROTECTION ON EACH LINE FOR ALL MOTORIZED EQUIPMENT FOR WHICH STARTERS ARE NOT PROVIDED BY OTHER TRADES.

7. MATERIALS:

- A. CONDUIT RIGID GALVANIZED STEEL, 3/4" MINIMUM.
- B. EMT GALVANIZED STEEL, 3/4" MINIMUM.
- C. INTERMEDIATE METALLIC CONDUIT, 3/4" MINIMUM.

8. CONDUCTORS:

- A. MINIMUM SIZE NO. 12 AWG COPPER, 600V.
- B. COPPER TYPE XHHW, TW OR THWN BRANCH CIRCUITS.
- C. COPPER TYPE THW, XHHW FEEDERS, GUTTERS.
- 9. WIRING DEVICES:
- A. SWITCHES: 20A POLES AS INDICATED 120/277V. AC ARROW NO. 199X SERIES COLOR TO MATCH DEVICE PLATE.
- B. RECEPTACLES: DUPLEX 3W20A, 125V. ARROW #5362 COLOR TO MATCH DEVICE PLATE.
- 10. PANELBOARD: CIRCUIT BREAKER TYPE. BREAKER COMPLEMENT AS INDICATED. PROVIDE TYPED CIRCUIT DIRECTORY. HALF WIDTH PLUG-IN BREAKERS NOT PERMITTED. GENERAL ELECTRIC, CUTLER HAMMER, SIEMENS, SQUARE D OR WESTINGHOUSE.
- 11. DEVICE PLATES PLASTIC COLOR TO MATCH SURROUNDING FINISH.
- 12. OUTLETS PROVIDE OUTLET BOXES TO SUIT CONDITIONS ENCOUNTERED. BOXES TO BE AMPLE SIZE TO ACCOMMODATE CONDUCTORS PER NEC. MINIMUM SIZE OF BOX FOR USE WITH RACEWAY SYSTEMS TO BE 4" SQUARE BY 1-1/2" DEEP.
- 13. CIRCUIT BREAKERS AND SAFETY SWITCHES GENERAL ELECTRIC, SQUARE D, SIEMENS, WESTINGHOUSE OR CUTLER HAMMER. SAFETY SWITCH HEAVY DUTY TYPE.
- 14. PULLBOXES, CABINETS AND GUTTER CODE GAGE GALVANIZED SHEET STEEL.
- 15. TRANSFORMER SHALL BE DRY TYPE, NEMA SOUND RATING, STANDARD TAPS, UL WITH EXTERNAL VIBRATION ISOLATION MOUNTING. HEVI-DUTY, SIEMENS, CUTLER HAMMER, GENERAL ELECTRIC OR WESTINGHOUSE.
- 16. SUBMIT FOLLOWING EQUIPMENT FOR APPROVAL AND RESUBMIT UNTIL APPROVAL IS RECEIVED.

CIRCUIT BREAKERS
PANELBOARDS AND DISCONNECT SWITCHES
TRANSFORMERS
ANY BUILT—TO—ORDER EQUIPMENT

ELECTRICAL SYMBOLS

□ □ □ □ EXISTING CEILING FLUORESCENT LUMINAIRE

EXISTING CEILING FLUORESCENT LUMINAIRE TO BE REMOVED

S EXISTING SWITCH TO BE REMOVED

S SWITCH, 1P20A, +4'-0" UNLESS OTHERWISE NOTED

S₂ SWITCH, 2P20A, HORSEPOWER RATED

DUPLEX CONVENIENCE OUTLET, 3W20A, GROUNDING TYPE, +18" UNLESS OTHERWISE NOTED

DUPLEX CONVENIENCE OUTLET, 3W20A, GROUND FAULT INTERRUPTER TYPE, +18" UNLESS OTHERWISE NOTED

EXISTING PANELBOARD

PANELBOARD

EXISTING TRANSFORMER

T TRANSFORMER

MOTOR OUTLET

MOTOR CONTROLLER

SAFETY SWITCH

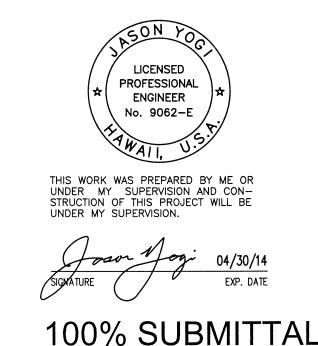
WP WEATHERPROOF

---- WIRING IN EXPOSED RACEWAY

NOTES: 1. ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A

TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS: -//-, 3 WIRES: -//-, 4 WIRES, ETC.

- 2. GROUND WIRE PER NATIONAL ELECTRICAL CODE INDICATED AS FOLLOWS; ———.
- 3. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING SURROUNDING.



CONFIDENTIALITY CLAUSE

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DESIGN COMCEPT AND SHALL NOT BE SHARED WITH ANY THIRD PARTY.

BUILDING 282 HIARNG FACILITIES KALEALOA INSTALLATION OF ENERGY EFFICIENT DUCTLESS SPLIT AIR CONDITIONING SYSTEM

KAPOLEI, OAHU, HAWAII

ACT NO.: TASK ORDER NO.:

CONTRACT NO.: TASK ORI

DEMOLITION NOTES, ELECTRICAL

SPECIFICATIONS, ELECTRICAL SYMBOLS

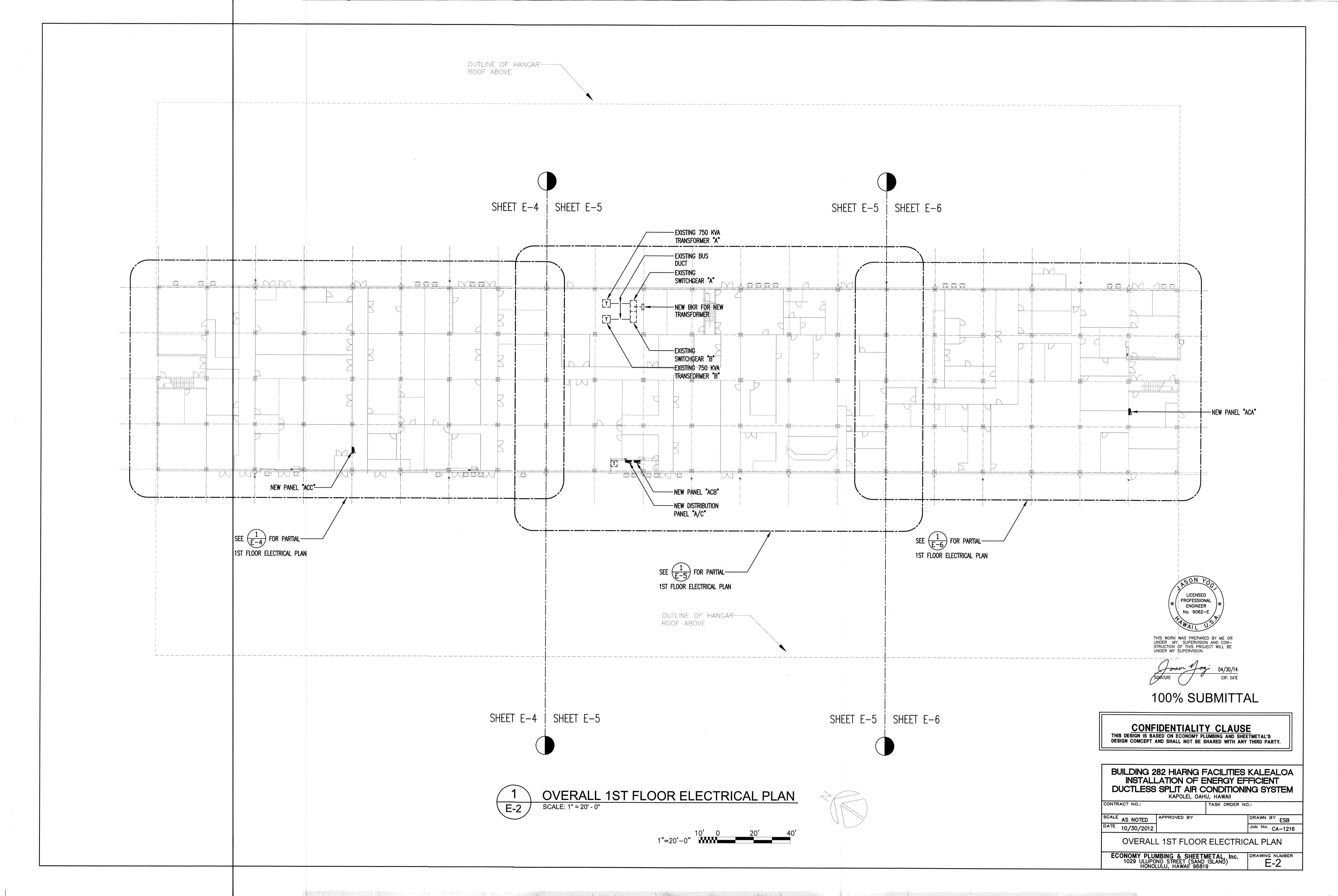
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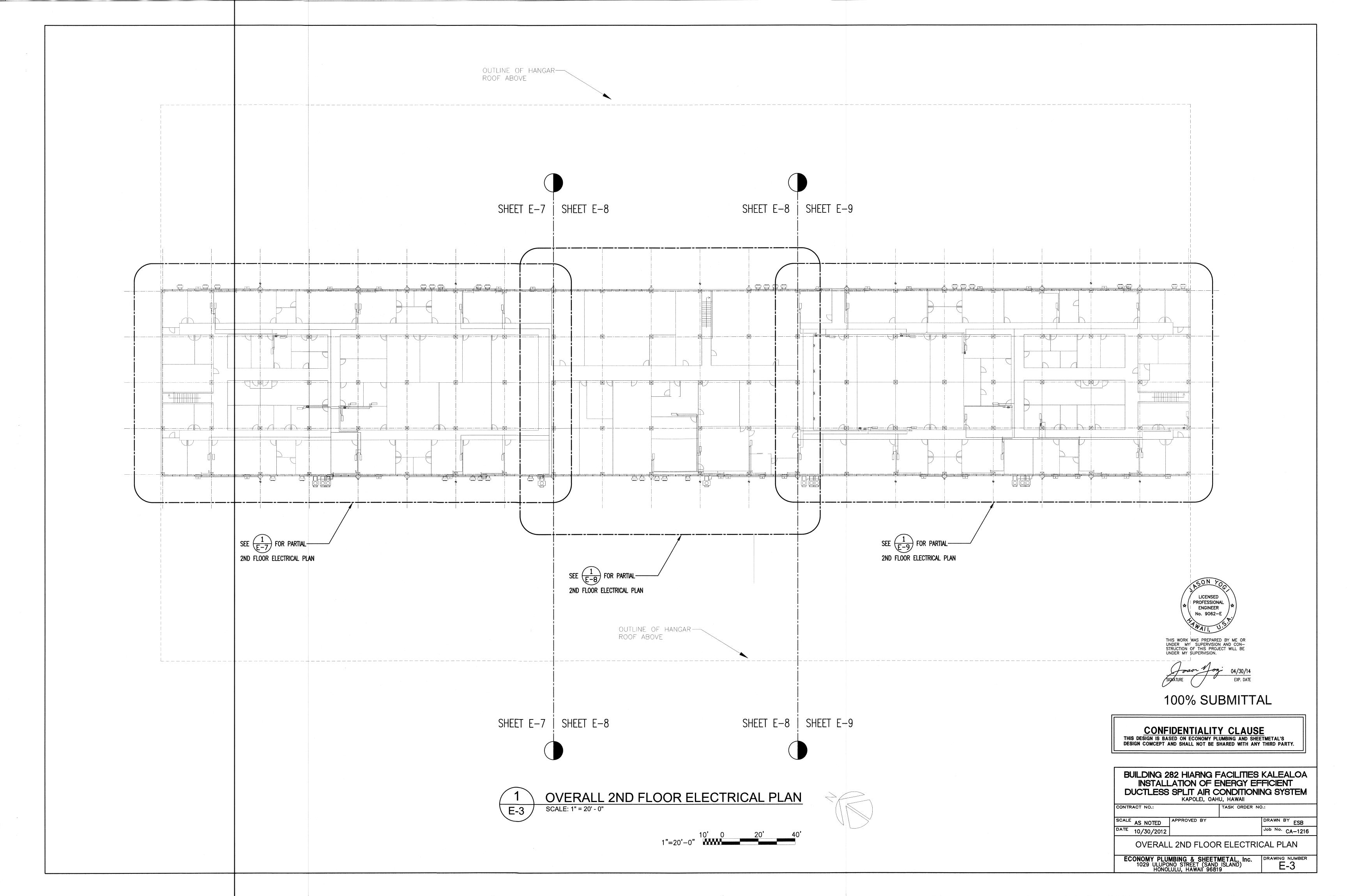
ECONOMY PLUMBING & SHEETMETAL, Inc.

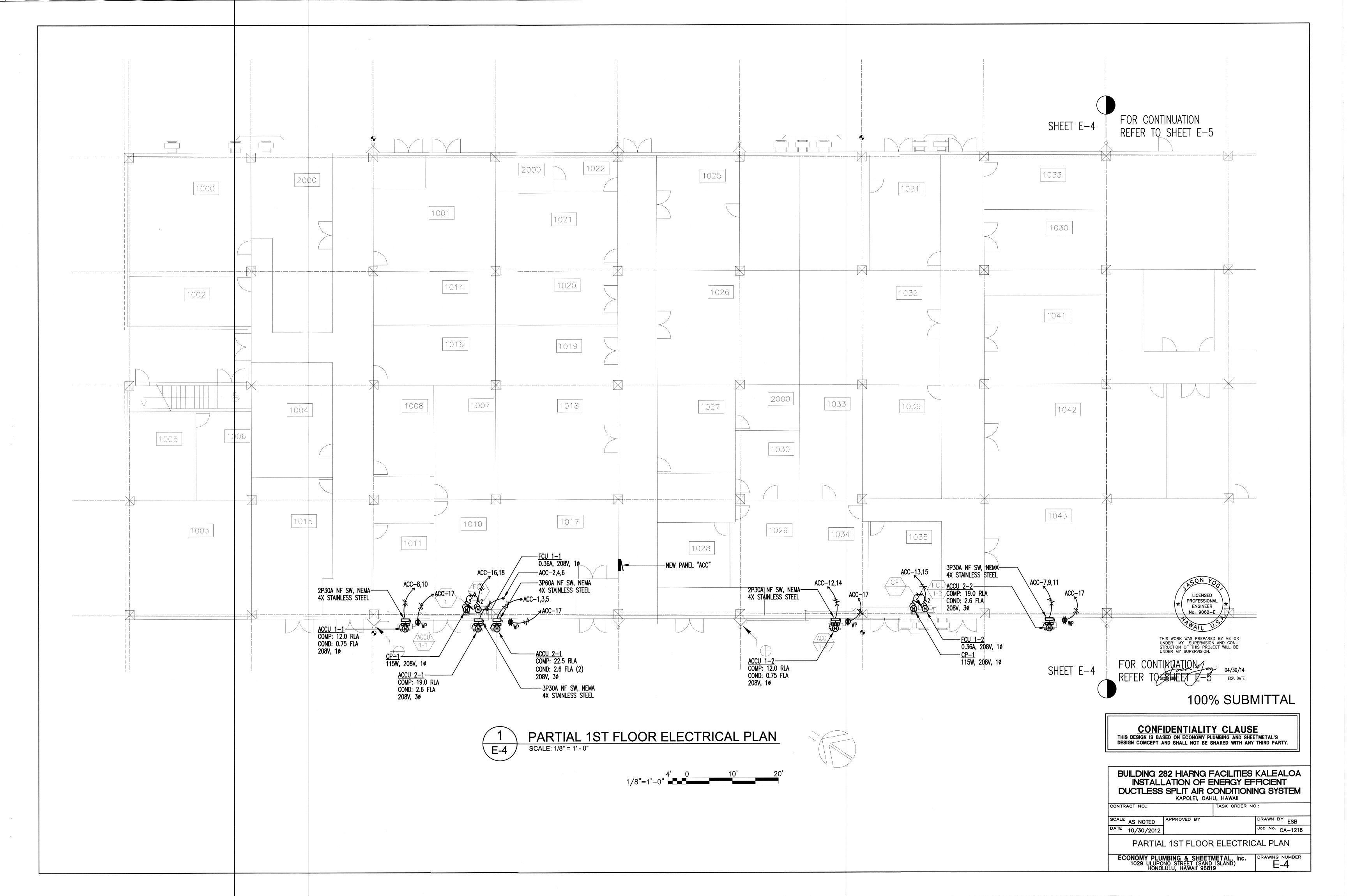
1029 ULUPONO STREET (SAND ISLAND)
HONOLULU, HAWAII 96819

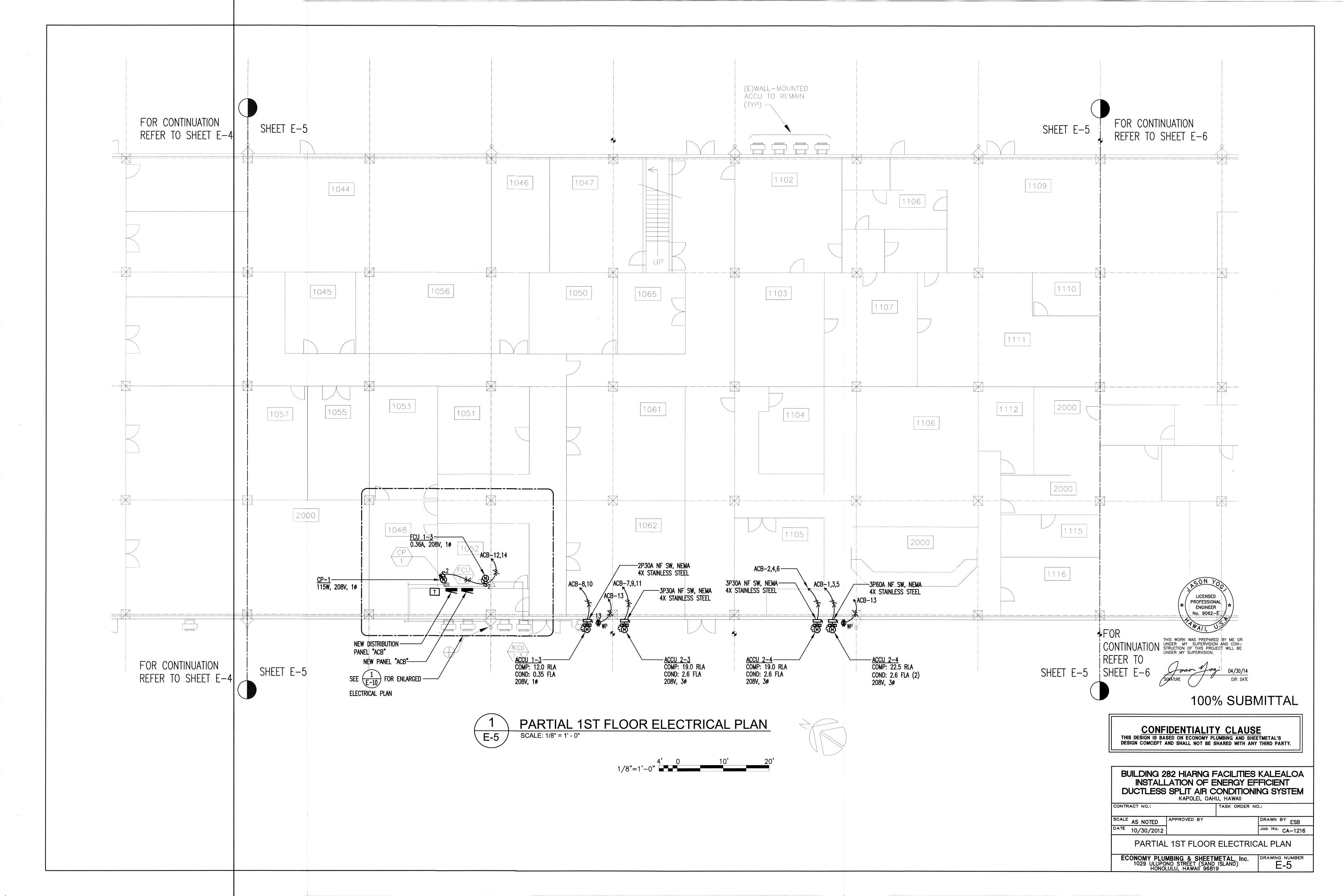
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E-1

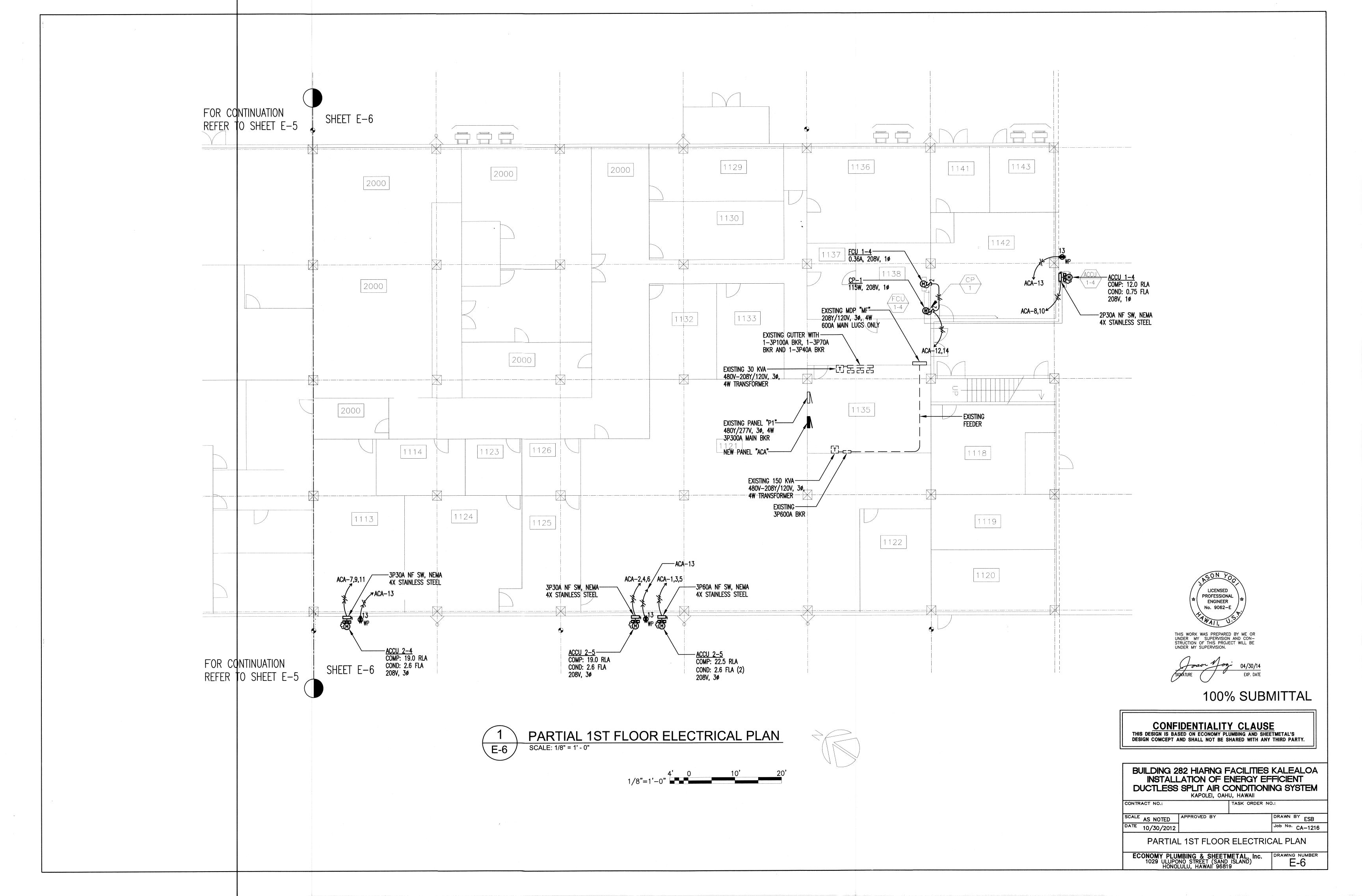
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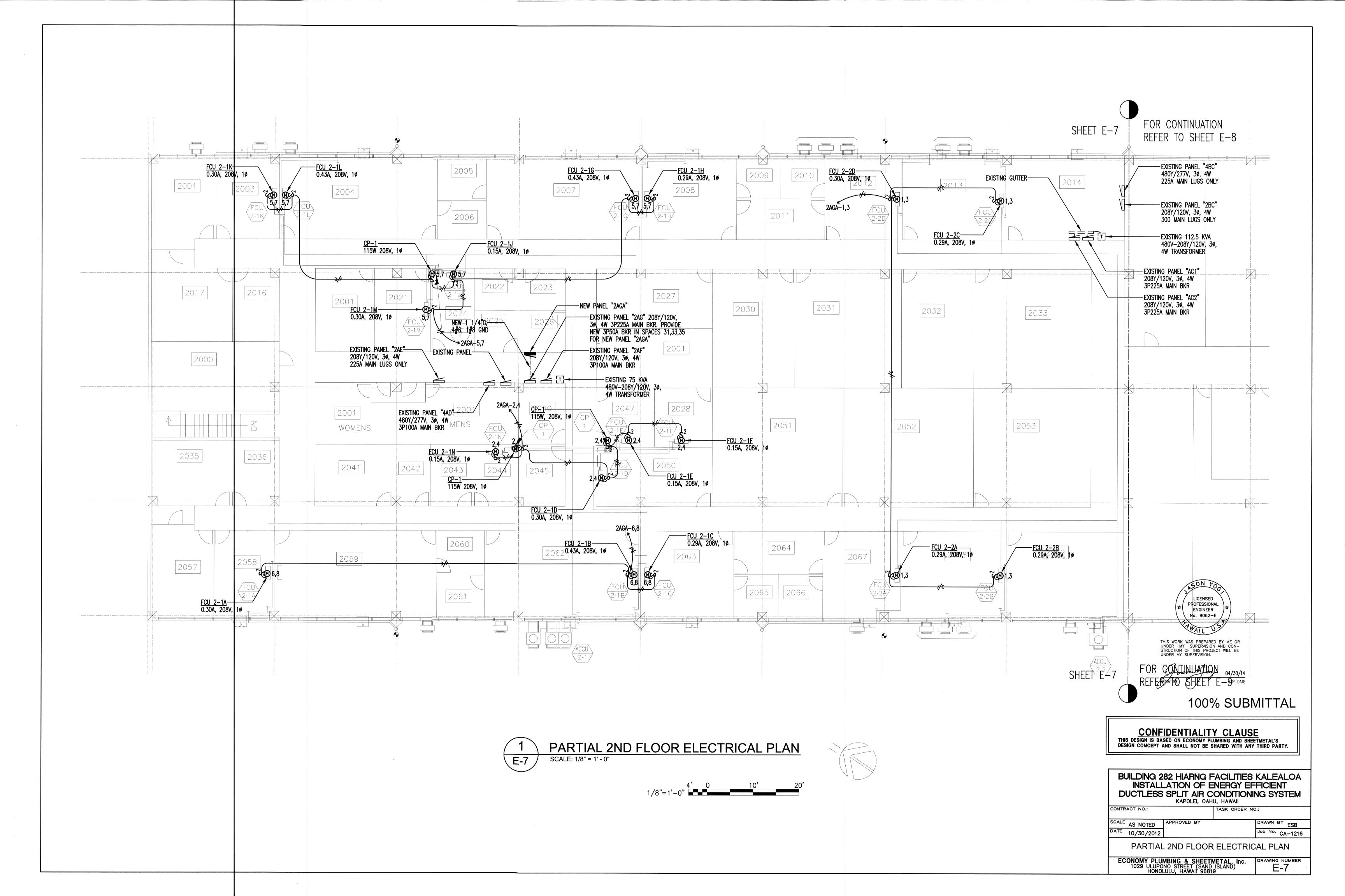


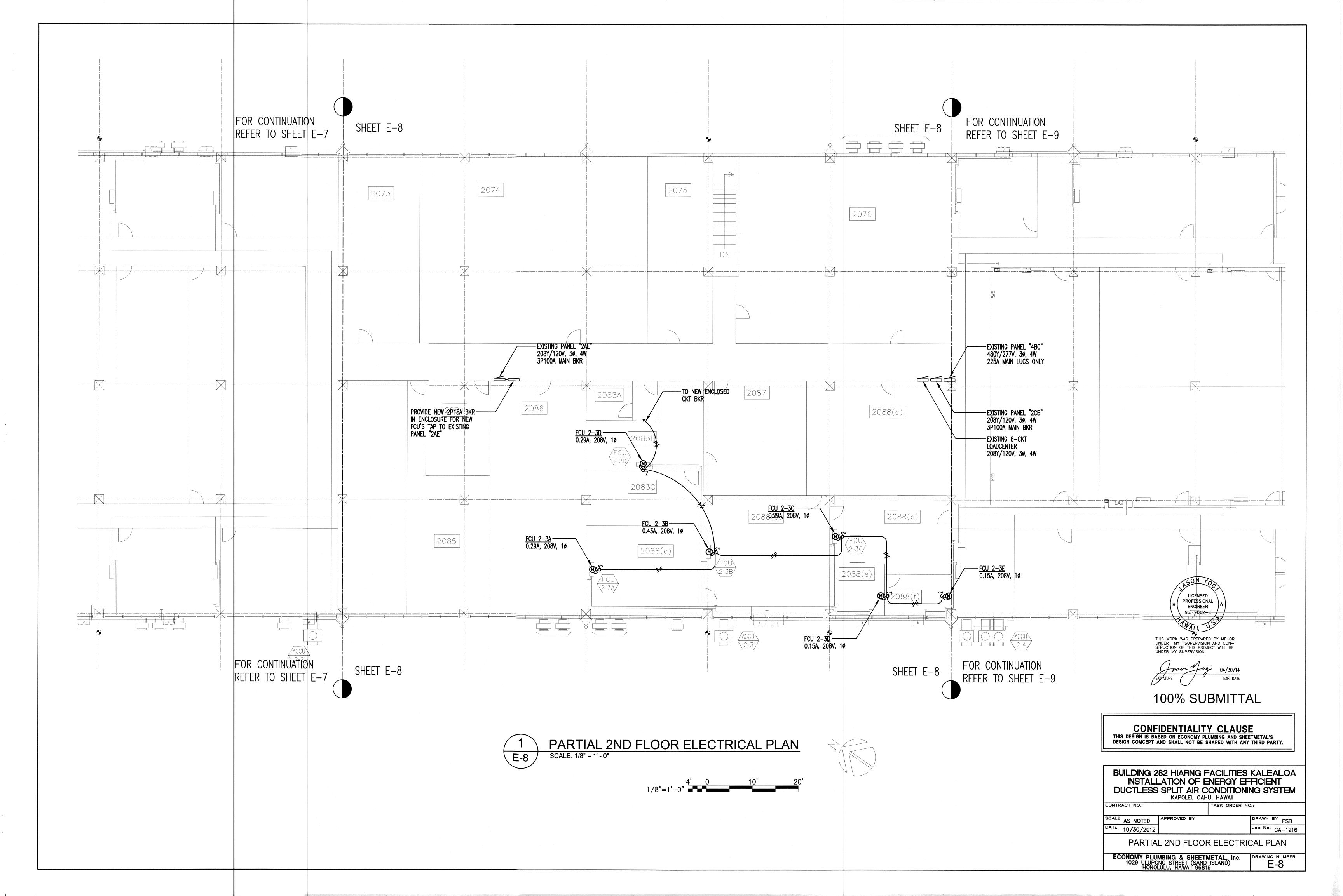


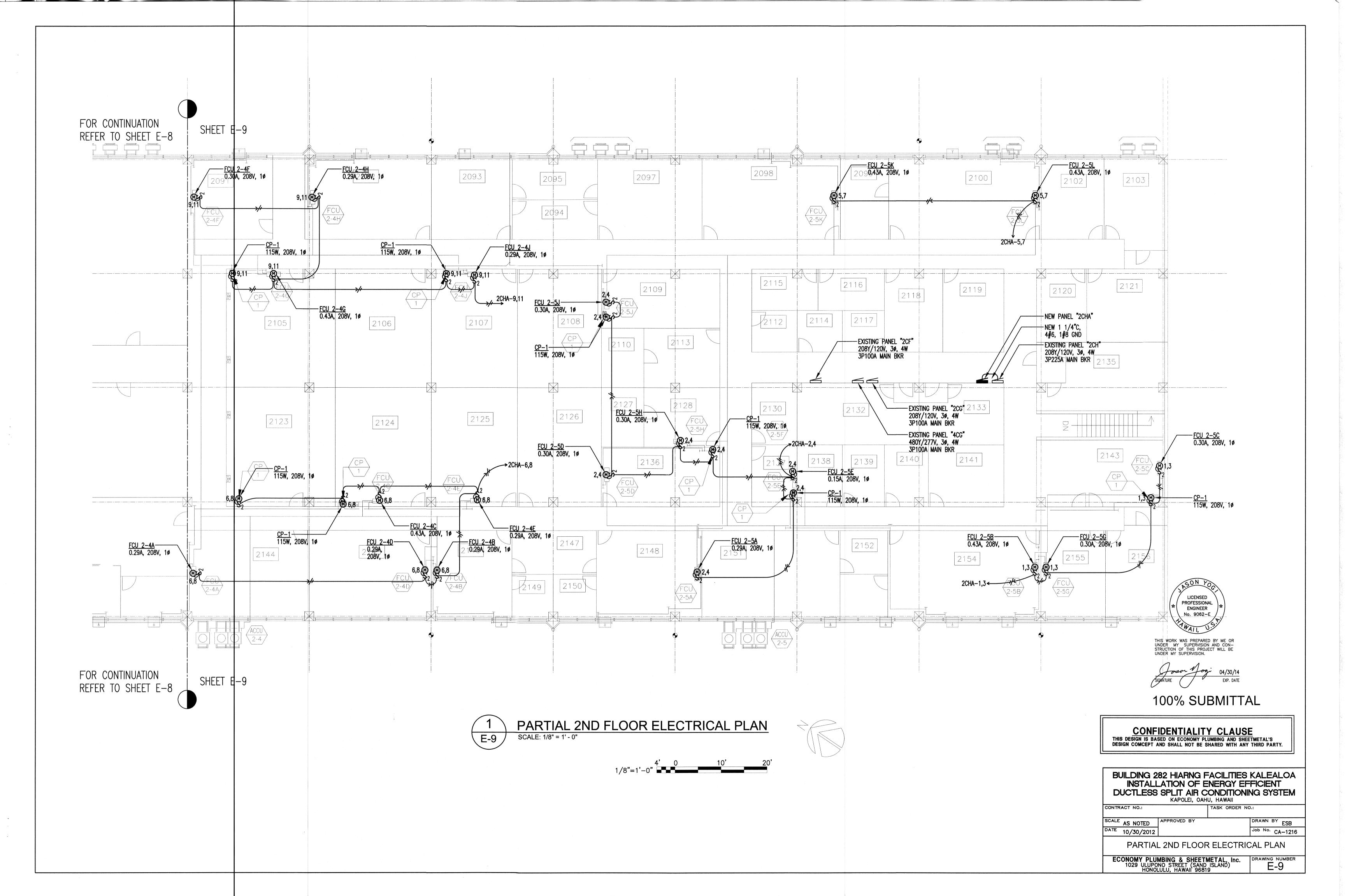


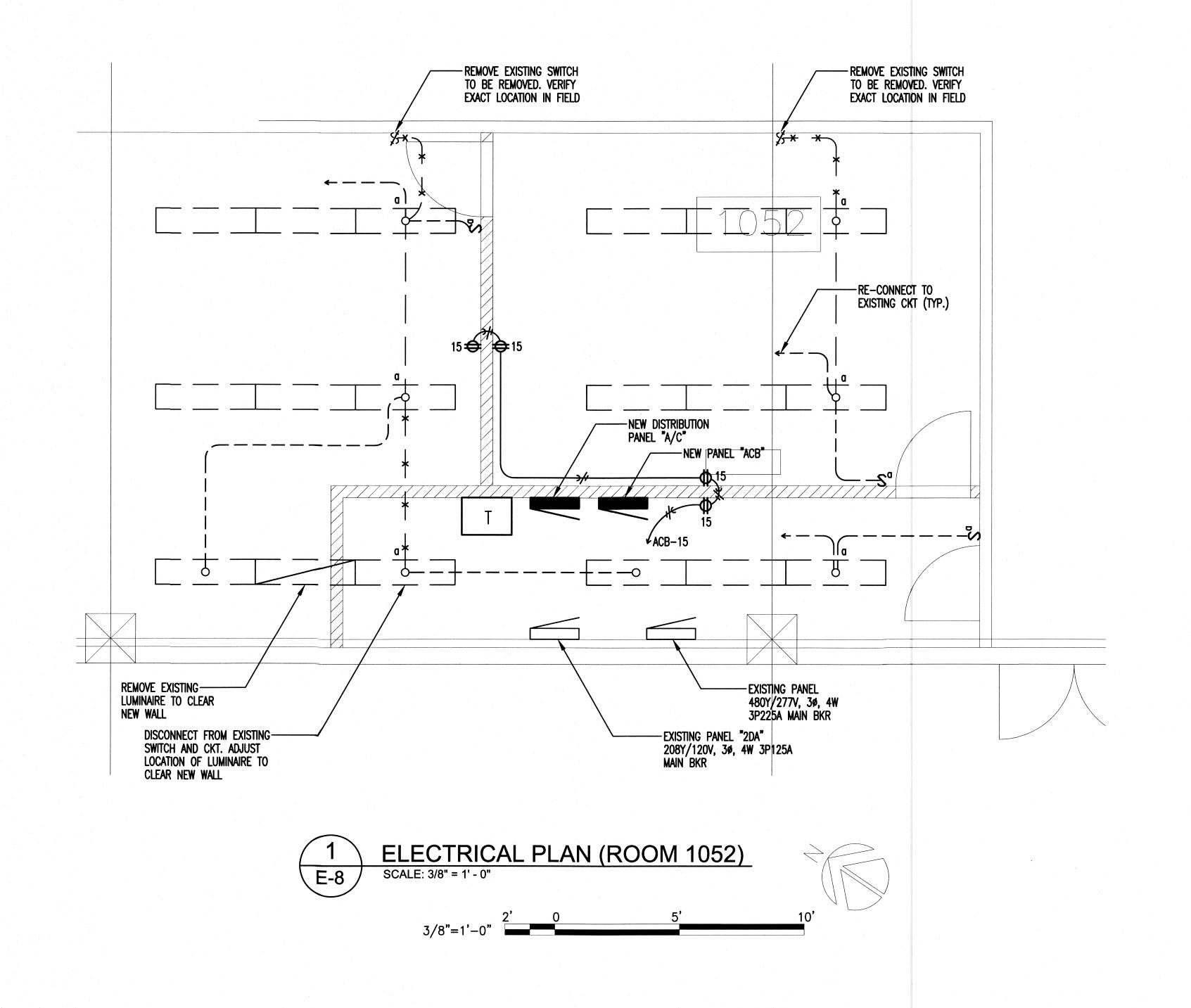


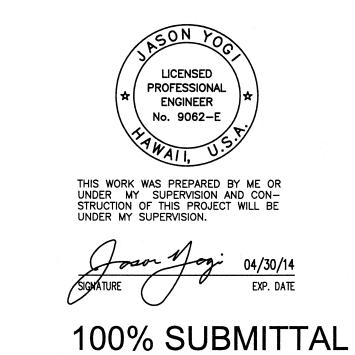












CONFIDENTIALITY CLAUSE
THIS DESIGN IS BASED ON ECONOMY PLUMBING AND SHEETMETAL'S

BUILDING 282 HIARNG FACILITIES KALEALOA INSTALLATION OF ENERGY EFFICIENT DUCTLESS SPLIT AIR CONDITIONING SYSTEM KAPOLEI, OAHU, HAWAII

CONTRACT NO.: TASK ORDER NO.:

SCALE AS NOTED APPROVED BY
DATE 10/30/2012

Job No. CA-1216

ELECTRICAL PLAN (ROOM 1052)

ECONOMY PLUMBING & SHEETMETAL, Inc.
1029 ULUPONO STREET (SAND ISLAND)
HONOLULU, HAWAII 96819

E-10

NEW DIST PANEL "A/C" 208Y/120 VOLTS 3ø, 4WSN 3P400A MAIN BKR BRANCH BKR I.C. 10,000 AMPS SURFACE, 20" WIDE CABINET, INDUSTRIAL—BOLTED KVA A B C WIRE 1,3,5 3P100A NEW PANEL "ACA" 10.5 9.8 8.6 #1/0 2,4,6 3P100A NEW PANEL "ACB" 10.3 10.6 8.6 #1/0								
SURFACE, 20" WIDE CABINET, INDUSTRIAL—BOLTED CKT NO. BKR L O A D KVA A B C								
CKT NO. BKR L O A D KVA A B C C C C C C C C	•					1	0,000	AMPS
NO. BKR L O A D A B C	SURFA	CE, 20	O" WIDE CABINET, INDUSTI	RIAL-BOL	TED			
1,3,5 3P100A NEW PANEL "ACA" 10.5 9.8 8.6 #1/0 2,4,6 3P100A NEW PANEL "ACB" 10.3 10.6 8.6 #1/0 7,9,11 3P125A NEW PANEL "ACC" 11.2 8.7 10.7 #1/0 8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B		BKR	LOAD			KVA		WIDE
2,4,6 3P100A NEW PANEL "ACB" 10.3 10.6 8.6 #1/0 7,9,11 3P125A NEW PANEL "ACC" 8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B		DIXIX			Α	В	С	
7,9,11 3P125A NEW PANEL "ACC" 11.2 8.7 10.7 #1/0 8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B					10.5	9.8	8.6	#1/0
8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B	2,4,6	3P100A	NEW PANEL "ACB"		10.3	10.6	8.6	#1/0
8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
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8,10,12 3P100A P F B 13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
13,15,17 3P100A P F B 14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B		3P125A	NEW PANEL "ACC"		11.2	8.7	10.7	#1/0
14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B	8,10,12	3P100A	PFB					
14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B								
14,16,18 3P100A P F B 19,21,23 3P100A P F B 20,22,24 3P100A P F B							·	
19,21,23 3P100A P F B 20,22,24 3P100A P F B	13,15,17	3P100A	PFB					
20,22,24 3P100A P F B	14,16,18	3P100A	PFB					
20,22,24 3P100A P F B						entre op de Augustiniste et han passau servina	:	
20,22,24 3P100A P F B								
20,22,24 3P100A P F B								
20,22,24 3P100A P F B							***************************************	
			PFB					
TOTAL 32.0 29.1 27.9	20,22,24	3P100A	PFB					
TOTAL 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
T O T A L 32.0 29.1 27.9								
	Т	OTA	L		32.0	29.1	27.9	

		ACA" BKR	208Y/120 VOLTS BRANCH BKR I.C.			6 ø, 4۷	
			BINET, INDUSTRIAL-BOI		•	0,000	/ MIVITS
CKT					KVA		
NO.	BKR		LOAD	Α	В	С	WIRE
	3P50A	ACCU 2-5		3.3	3.3	3.3	6
2,4,6	3P40A	ACCU 2-5		2.6	2.6	2.6	6
7,9,11	3P40A	ACCU 2-4		2.6	2.6	2.6	6
8,10,12	3P20A	ACCU 1-4		1.3	1.3		10
12,14	2P15A	FCU 1-4/0	CP-1	0.1		0.1	12
13	1P20A	RECEP		0.6			12
15	1P	PFB					
16							
17							
18							
19							
20							
21							
23							
24							
27		I					
T	O T A			10.5	9.8	8.6	

		ACB" 208Y/120 VOLTS			ø, 4V	
		IGS ONLY BRANCH BKR I.C.		1	0,000) AMPS
SURFA	CE, 20	" WIDE CABINET, INDUSTRIAL-BOL	TED			
CKT	BKR	LOAD		KVA	T =	WIRE
NO.			Α	В	С	
	3P50A	ACCU 2-4	3.3	3.3	3.3	6
2,4,6	3P40A	ACCU 2-4	2.6	2.6	2.6	6
7,9,11	3P40A	ACCU 2-3	2.6	2.6	2.6	6
8,10,12	3P20A	ACCU 1-3	1.3	1.3		10

12,14	2P15A	FCU 1-3/CP-1	0.1		0.1	12
13	1P20A	RECEP	0.4			12
15	1P20A	RECEP		0.8		12
16	1P	PFB				
17						
18						
19						
20						
21						
22						
23						
24	V					
	O T A	1	10.7	10.0	0.0	
	<u>O T A</u>	L	10.5	10.6	8.6	

C NIEW E	244151 22					
•		ACC" 208Y/120 VOLTS			5ø, 4V	
1		BKR BRANCH BKR I.C.		1	0,000	AMPS
	CE, 20	" WIDE CABINET, INDUSTRIAL-BOL	IED			
CKT	BKR	LOAD		KVA	Т _	WIRE
NO.			Α	В	C	
	3P50A	ACCU 2-1	3.3	3.3	3.3	6
2,4,6	3P40A	ACCU 2-1	2.6	2.6	2.6	6

7,9,11	3P40A	ACCU 2-2	2.6	2.6	2.6	6
8,10,12	2P20A	ACCU 1-1	1.3			10

12,14	2P20A	ACCU 1-2	1.3		1.3	10
13,15	2P15A	FCU 1-2/CP-1	0.1	0.1		12
16	2P15A	FCU 1-1/CP-1	All Private Pr	0.1	0.1	12
17	1P20A	RECEP			0.8	12
18	1P	PFB				***************************************
19						
20						
21			***************************************			
22			······································			
23						
24						
25				***************************************		
26						·····
27						***************************************
28						
29				***************************************		
30	+					
	I					
Т	ОТА	L	11.2	8.7	10.7	

		2AGA" 208Y/120				ø, 4W	
8		JGS ONLY BRANCH E	N .		1	0,000	AMPS
SURFA	ACE, 20	O" WIDE CABINET, INDUSTI	IAL-BOL	TED			
CKT	BKR	LOAD			KVA		WIRE
NO.	DIXIX			Α	В	С	WINE
1,3	2P15A	FCU'S 2-2A TO 2-2D		0.2	0.2		12
2,4	2P15A	FCU'S 2-1D TO 2-1F, 2-1	M/CP-1	0.2	0.2		12
5,7	2P15A	FCU'S 2-1G TO 2-1H, 2-1J TO	2-IM/CP-1	0.3		0.3	12
6,8	2P15A	FCU'S 2-1A TO 2-1B		0.1		0.1	12
9	1P	PFB					***************************************
10				1		3	
11							
12	*						
		•					
Т	ОТА	L		0.8	0.4	0.4	
L			+		L		

8			208Y/12	- 6				ø, 4V	
3P50A	MAIN E	3KR	BRANCH	BK	R I.C.		1	0,000) AMPS
SURFA	CE, 20	O" WIDE	CABINET, INDUS	TRI	AL-BOL	TED.			
CKT	BKR		LOAD				KVA		WIRE
NO.						Α	В	C	WIINE
	2P15A	FCU'S	2-5B, 2-5G, 2-50)/ q F	P -1	0.2	0.2		12
2,4	2P15A	FCU'S 2	2-5A, 2-5D, 2-5E,	2-5	SJ/CP-1	0.3	0.3) 	12
5,7	2P15A		2-5K, 2-5L			0.1		0.1	12
6,8	2P15A	FCU'S	2-4A, 2-4E/CP-1			0.3		0.3	12
								į	
9,11	2P15A	FCU'S 2	2-4F, 2-4G, 2-4H,	2-4	IJ/CP−1		0.3	0.3	12
10	1P	PFB							
								Action to provide the second	
12	1P	PFB							
								:	
T	OTA	L				0.9	0.8	0.7	

LICENSED PROFESSIONAL ENGINEER No. 9062-E
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CON-STRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.
SIGNATURE 04/30/14 EXP. DATE

100% SUBMITTAL

CONFIDENTIALITY CLAUSE

THIS DESIGN IS BASED ON ECONOMY PLUMBING AND SHEETMETAL'S DESIGN COMCEPT AND SHALL NOT BE SHARED WITH ANY THIRD PARTY.

BUILDING 282 HIARNG FACILITIES KALEALOA INSTALLATION OF ENERGY EFFICIENT DUCTLESS SPLIT AIR CONDITIONING SYSTEM KAPOLEI, OAHU, HAWAII

CONTRACT NO.: KAPOLEI, OAHU, HAWAII

CONTRACT NO.: TASK ORDER N

SCALE AS NOTED

APPROVED BY

DRAWN BY ESB

Job No. CA-1216

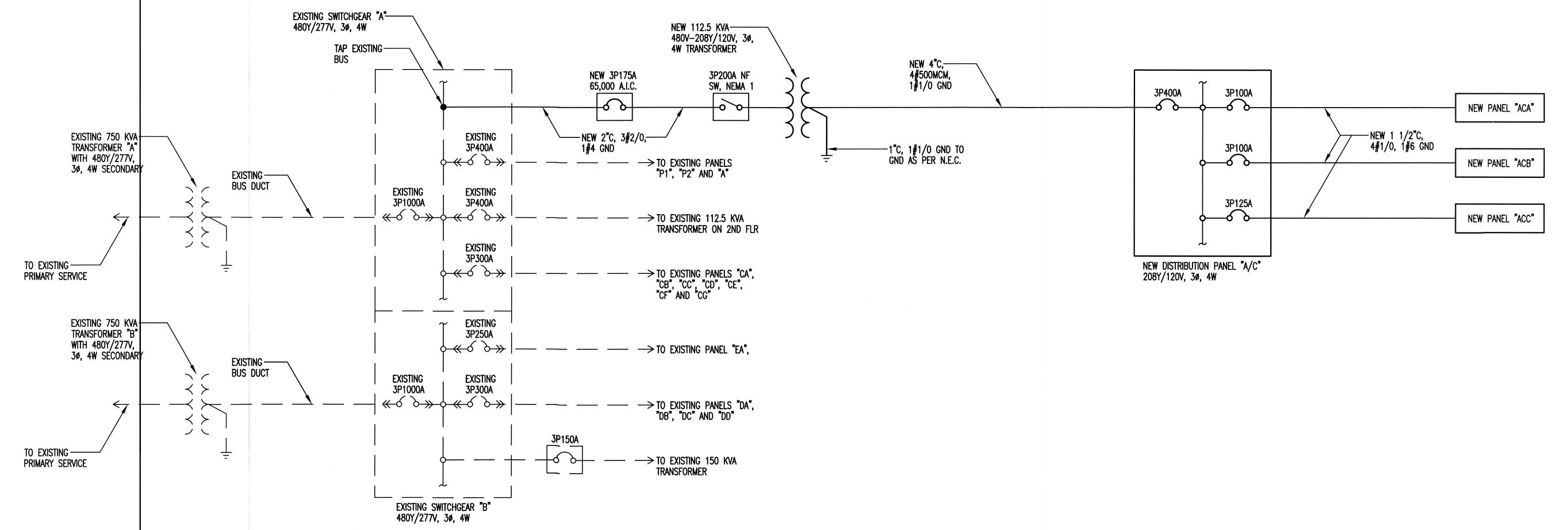
PANEL SCHEDULES

ECONOMY PLUMBING & SHEETMETAL, Inc.

1029 ULUPONO STREET (SAND ISLAND)
HONOLULU, HAWAII 96819

DRAWING NUMBER

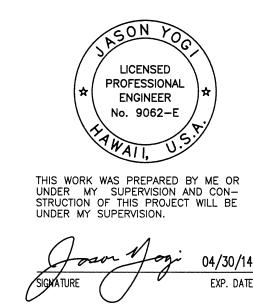
E-11



NOTES:

1. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE GOVERNMENT.

SINGLE LINE DIAGRAM



100% SUBMITTAL

CONFIDENTIALITY CLAUSE
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BUILDING 282 HIARNG FACILITIES KALEALOA INSTALLATION OF ENERGY EFFICIENT DUCTLESS SPLIT AIR CONDITIONING SYSTEM KAPOLEI, OAHU, HAWAII

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DATE 10/30/2012

KAPOLEI, OAHU, HAWAII

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HONOLULU, HAWAII 96819

DRAWING NUMBER

E-12