

UNIT B+LAUNDRY LIGHT SCHEDULE DIRECTORY

LOAD	WIRE	DIRECTORY	BKR	BKR	DIRECTORY
AMPS	SIZE				
30	10	EXISTING A/C UNIT#2	1	2	APPLIANCE-KITCHEN
			3	4	APPLIANCE-KITCHEN
AF-20	12	LIVING ROOM	5	6	G.DISPOSAL/D. WASHER
AF-15	14	BEDROOM 1	7	8	KITCHEN LIGHTS
AF-15	14	BEDROOM 2	9	10	KITCHEN AFCI
AF-15	14	BATH	11	12	SMOKE DETECTORS
AF-20	12	KITCHEN AFCI	13	14	TANKLESS WATER HEATER(ELECTRIC)
40	8	RANGE	15	16	
			17	18	DRYER(ELECTRIC)
AF-20	12	LAUNDRY LIGHTS	19	20	
			21	22	DRYER(ELECTRIC)
		BLANK	23	24	
		BLANK	25	26	WASHER
		BLANK	27	28	WASHER
		BLANK	29	30	BLANK
		BLANK	31	32	BLANK
		BLANK	33	34	BLANK
		BLANK	35	36	BLANK
		BLANK	37	38	BLANK
		BLANK	39	40	BLANK

STORAGE LIGHT SCHEDULE DIRECTORY

LOAD	WIRE	DIRECTORY	BKR	BKR	DIRECTORY
AMPS	SIZE				
AF-20	12	STORAGE	1	2	STORAGE
			3	4	BLANK
AF-20	12	BLANK	5	6	BLANK
			7	8	BLANK
AF-15	12	BLANK	9	10	BLANK
			11	12	BLANK
AF-15	12	BLANK	13	14	BLANK
			15	16	BLANK
AF-15	12	BLANK	17	18	BLANK
			19	20	BLANK
AF-15	12	BLANK	21	22	BLANK
			23	24	BLANK

UNIT A LIGHT SCHEDULE DIRECTORY

LOAD	WIRE	DIRECTORY	BKR	BKR	DIRECTORY
AMPS	SIZE				
AF-20	12	EXISTING A/C UNIT#1	1	2	APPLIANCE-KITCHEN
			3	4	APPLIANCE-KITCHEN
AF-20	12	LIVING ROOM	5	6	G.DISPOSAL/D. WASHER
AF-15	14	BEDROOM 1	7	8	KITCHEN LIGHTS
AF-15	14	BEDROOM 2	9	10	KITCHEN AFCI
AF-15	14	BATH	11	12	SMOKE DETECTORS
40	8	RANGE	13	14	TANKLESS WATER HEATER(ELECTRIC)
			15	16	
		BLANK	17	18	BLANK
		BLANK	19	20	BLANK
		BLANK	21	22	BLANK
		BLANK	23	24	BLANK
		BLANK	25	26	BLANK
		BLANK	27	28	BLANK
		BLANK	29	30	BLANK
		BLANK	31	32	BLANK
		BLANK	33	34	BLANK
		BLANK	35	36	BLANK
		BLANK	37	38	BLANK
		BLANK	39	40	BLANK

ELECTRICAL CALCS

CALC'S FOR NEW REMODEL AREA UNIT A, INCLUDE STORAGE SUB-PANEL

LIVABLE AREA= 519 S.F X 3W 1,557 VA

SMALL APPLIANCES CIRCUITS	(2X1500 VA)	3,000 VA
RANGE	(1X12000 VA)	12,000 VA
DRYER	(0X5000 VA)	0 VA
WASHER	(0X1500 VA)	0 VA
DISPOSAL/DISHWASHER	(1X1500 VA)	1,500 VA
MICROWAVE OVEN	(0X1500 VA)	0 VA
WATER HEATER	(1X13750 VA)	13,750 VA
REFRIGERATOR	(1X1500 VA)	1,500 VA

TOTAL*OTHER LOADS* = 33,307 VA

FIRST 10KVA AT 100% 10,000 VA
REMAINDER AT 40% 9,323 VA
(33,307 VA-10,000 VA = 23,307 VA)
(23,307 VA X 40% = 9,323 VA)

STORAGE AT 100% 13,313 VA

SUBTOTAL= 32,636 VA
(100% + 40% + 100%) = 32,636 VA

A/C UNIT#1 7000 VA

TOTAL= 39,636 VA
(SUBTOTAL + AC)

TOTAL LOAD DIVIDED BY 240= 165.15 AMP

CONCLUSION: 225 AMP SERVICE WILL BE ENOUGH FOR THE NEW REMODEL AREA

CONTRACTOR TO VERIFY HEATING A/C TONNAGE

ELECTRICAL CALCS

CALC'S FOR NEW REMODEL AREA STORAGE

LIVABLE AREA= 573 S.F X 3W 1,719 VA

SMALL APPLIANCES CIRCUITS	(0X1500 VA)	0 VA
RANGE	(1X12000 VA)	12,000 VA
DRYER	(0X5000 VA)	0 VA
WASHER	(0X1500 VA)	0 VA
DISPOSAL/DISHWASHER	(1X1500 VA)	1,500 VA
MICROWAVE OVEN	(0X1500 VA)	0 VA
WATER HEATER	(0X13750 VA)	0 VA
REFRIGERATOR	(0X1500 VA)	0 VA

TOTAL*OTHER LOADS* = 1,719 VA

FIRST 10KVA AT 100% 10,000 VA
REMAINDER AT 40% 3,313 VA
(1,719 VA-10,000 VA = 8,281 VA)
(8,281 VA X 40% = 3,313 VA)

SUBTOTAL= 13,313 VA
(100% + 40% = 13,313 VA)

A/C UNIT#0 0 VA

TOTAL= 13,313 VA
(SUBTOTAL + AC)

TOTAL LOAD DIVIDED BY 240= 55.47 AMP

CONCLUSION: 125 AMP SUB-PANEL SERVICE WILL BE ENOUGH FOR THE NEW REMODEL AREA

CONTRACTOR TO VERIFY HEATING A/C TONNAGE

ELECTRICAL CALCS

CALC'S FOR NEW REMODEL AREA UNIT B + LAUNDRY

LIVABLE AREA= 714 S.F X 3W 2,142 VA

SMALL APPLIANCES CIRCUITS	(2X1500 VA)	3,000 VA
RANGE	(1X12000 VA)	12,000 VA
DRYER	(2X5000 VA)	10,000 VA
WASHER	(2X1500 VA)	3,000 VA
DISPOSAL/DISHWASHER	(1X1500 VA)	1,500 VA
MICROWAVE OVEN	(0X1500 VA)	0 VA
TANKLESS WATER HEATER	(1X13750 VA)	27,500 VA
REFRIGERATOR	(1X1500 VA)	1,500 VA

TOTAL*OTHER LOADS* = 60,642 VA

FIRST 10KVA AT 100% 10,000 VA
REMAINDER AT 40% 20,257 VA
(60,642 VA-10,000 VA = 50,642 VA)
(50,642 VA X 40% = 20,257 VA)

SUBTOTAL= 30,257 VA
(100% + 40% = 30,257 VA)

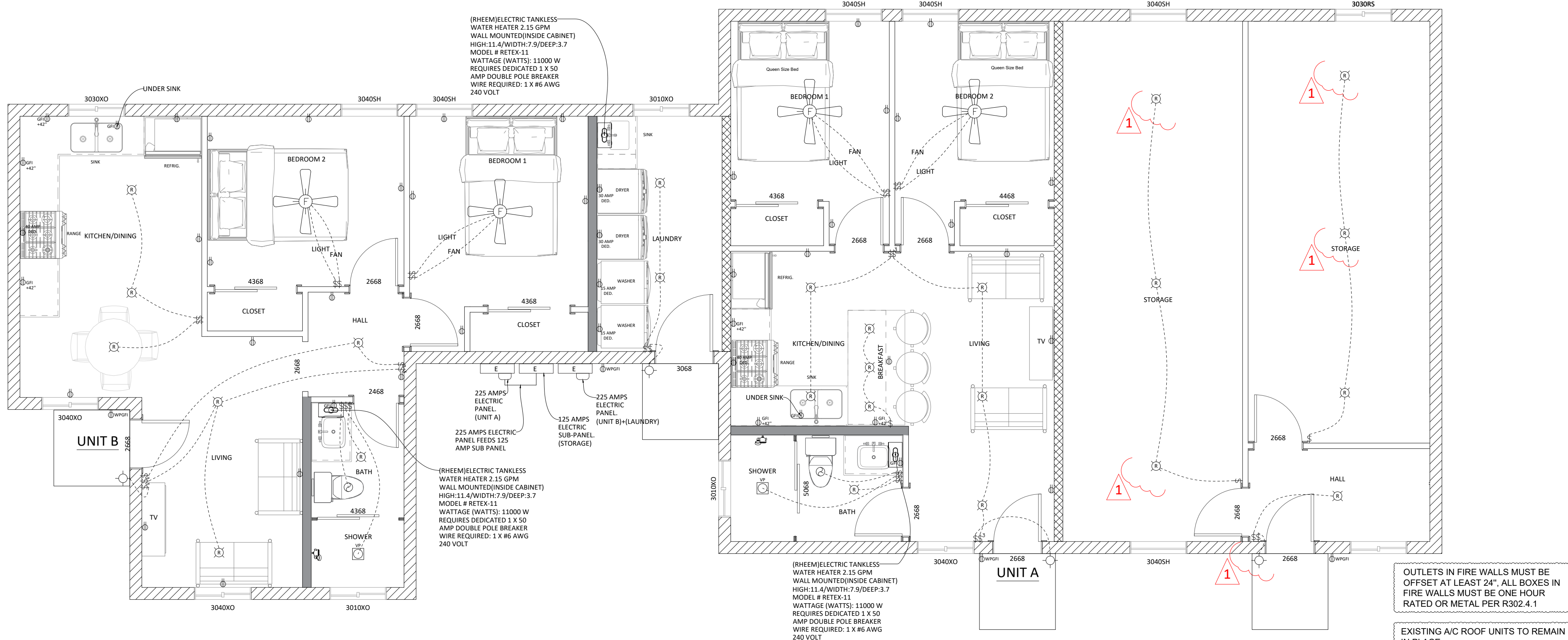
A/C UNIT#2 7000 VA

TOTAL= 37,257 VA
(SUBTOTAL + AC)

TOTAL LOAD DIVIDED BY 240= 155.23 AMP

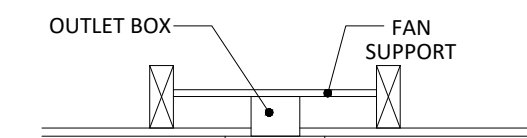
CONCLUSION: 225 AMP SERVICE WILL BE ENOUGH FOR THE NEW REMODEL AREA

CONTRACTOR TO VERIFY HEATING A/C TONNAGE



FAN MOUNTING DETAIL

IRC E4003.6
CEILING-SUSPENDED PADDLE FANS THAT DO NOT EXCEED 35 POUNDS (15.88 kg) IN WEIGHT, WITH OR WITHOUT ACCESSORIES, SHALL BE PERMITTED SUPPORTED BY OUTLET BOXES IDENTIFIED FOR SUCH USE AND SUPPORTED IN ACCORDANCE WITH SECTIONS E3805 AND E3806. CEILING-SUSPENDED PADDLE FANS EXCEEDING 35 POUNDS (15.88kg) IN WEIGHT, WITH OR WITHOUT ACCESSORIES, SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET.



RECESSED LIGHT

CODE INTERPRETATION
RECESSED LIGHT FIXTURE
RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES SHALL BE IC-RATED AND LABELED AS MEETING ASTM E 283 WHEN TESTED AT 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL WITH NO MORE THAN 2.0 CFM (0.344 L/S) OF AIR MOVEMENT FROM THE CONDITIONED SPACE TO THE CEILING CAVITY. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING.



INSULATION
IC RATED LIGHT FIXTURE

LAMP PER MANUFACTURERS LABEL

FINISH MATERIAL

NOTES:

WHEN ALTERATION REPAIR OR ADDITION REQUIRED A PERMIT OCCUR, OR WHEN ONE OR MORE SLEEPING ROOMS ARE ADDED OR CREATED IN EXISTING DWELLINGS THE INDIVIDUAL DWELLING UNITS SHALL BE EQUIPPED WITH SMOKE ALARMS LOCATED AS REQUIRED FOR NEW DWELLINGS. THE SMOKE ALARMS SHALL BE INTERCONNECTED AND HARD WIRED

SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND BE EQUIPPED WITH A BATTERY BACK-UP. DETECTORS SHALL SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS OF THE DWELLING UNIT IN WHICH THEY ARE LOCATED. INTERCONNECT ON ONE CIRCUIT. SMOKE DETECTORS SHALL BE LOCATED 3'-0" MINIMUM FROM DUCTS OPENINGS.

1- CARBON MONOXIDE AND SMOKE DETECTORS REQUIRED IN ALL NEW AND EXISTING AREAS OF HOUSE

2- ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS, IN ALL LIVABLE AREAS SHALL BE PROTECTED BY A COMBINATION TYPED ARC-FAULT CIRCUIT INTERRUPTER.

2-ALL OUTLETS ARE AFCI TYP. EXCEPT GARAGE,PATIOS,PORCH, AND LAUNDRY ROOM PER 2018 IRC E3902.16

NOTES:

1-ALL KITCHEN ABOVE COUNTER RECEPTACLES SHALL BE INSTALLED @ 46" U.O.N

2-ALL BATHROOM ABOVE COUNTER RECEPTACLES SHALL BE INSTALLED @ 40" U.O.N

3-GARAGE AND EXTERIOR CONVENIENCE RECEPTACLES SHALL BE INSTALLED @ 24".

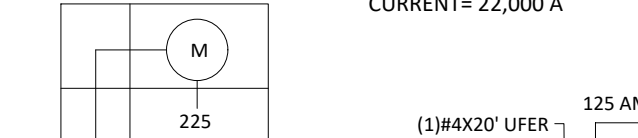
4- EXTERIOR RECEPTACLES SHALL BE WEATHER PROOF.

5-ALL WALL MOUNTED FIXTURES AT EXTERIOR WALLS & ALL BATHROOM WALL FIXTURES TO BE MOUNTED @ 84".

6-KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS AND SIMILAR ROOMS OR AREAS, RECEPTACLES TO BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S). TO COMPLY WITH E3902.16

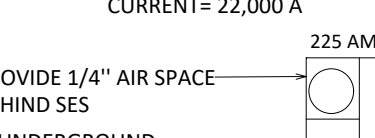
ONE LINE DIAGRAM

MAXIMUM AVAILABLE FAULT CURRENT= 22,000 A



ONE LINE DIAGRAM

MAXIMUM AVAILABLE FAULT CURRENT= 22,000 A



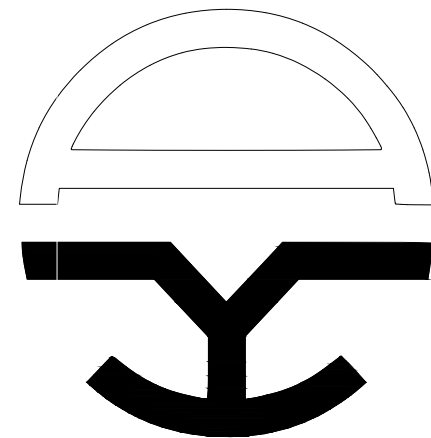
KEYED NOTES

NO.	DESCRIPTION
1	REFRIGERATOR-PRE-PLUMB FOR ICE MAKER
2	RANGE 240V./OVEN W/HOOD ABOVE- PROVIDE 110V. OUTLET ON SEPARATE CIRCUIT.
3	DOUBLE SINK W/ DISPOSAL
4	EXHAUST FAN-PROVIDE MIN. 5 AIR CHANGES PER HOUR 50 C.F.M FAN-U.N.O ON PLAN.
5	20 AMP. CIRCUIT BREAKER OUTLET-1 LEG SWITCHED @ DISPOSAL
6	CEILING OUTLET FOR AUTOMATIC GARAGE DOOR OPENER.
7	MINI SPLIT CONDENSOR UNIT 20 AMP DEP. W/220V OUTLET
8	A/C COMPRESSOR DISCONNECT-COORDINATE LOCATION W/MECHANICAL CONTRACTOR.
9	EXISTING 200 AMP SERVICE PANEL
10	SCUTTEE ACCESS W/ SWITCH, LIGHT & RECEPTA.
11	APPROVED FOR WET LOCATIONS
12	A.C. COMPRESSOR PAD

WALL LEGEND

EXISTING CMU BLOCK WALL TO REMAIN
NEW 2X6 WOOD FRAMED WALL(FIRE WALL)
NEW 2X6 WOOD FRAMED WALL
NEW 2X4 WOOD FRAMED WALL

DESIGNER



Drawings & 3D Designs
kelldraftinganddesign@gmail.com

PROJECT NAME

OWNER: ROJAS DANIEL J
ADDRESS: 948 W MOHAVE ST PHOENIX 85007
APN: 105-34-079A

ISSUES/REVISIONS

Revision	Table	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

SHEET INFORMATION

ELECTRIC PLAN

SHEET #/SCALE

SCALE 1/4"=1'

4/23/2026