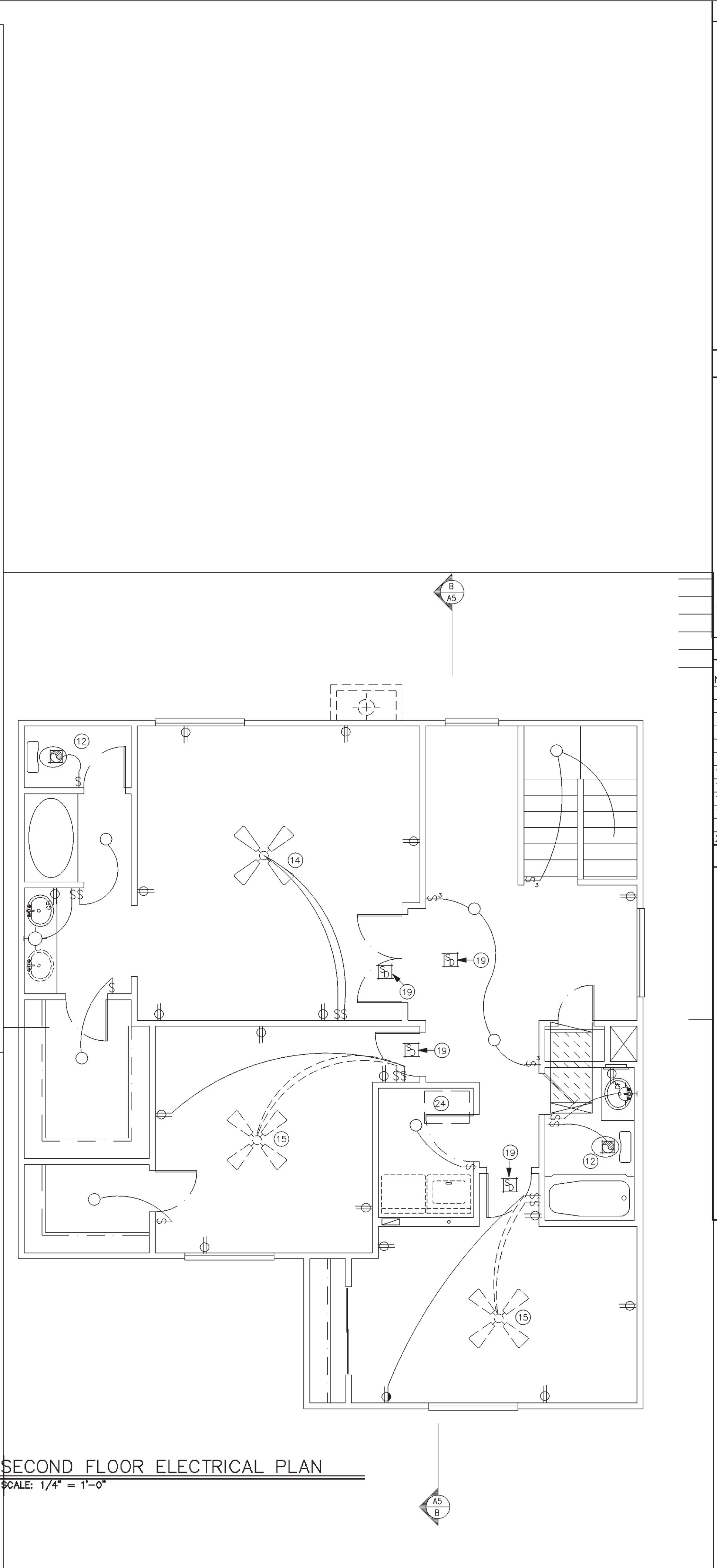


FIRST FLOOR ELECTRICAL PLAN

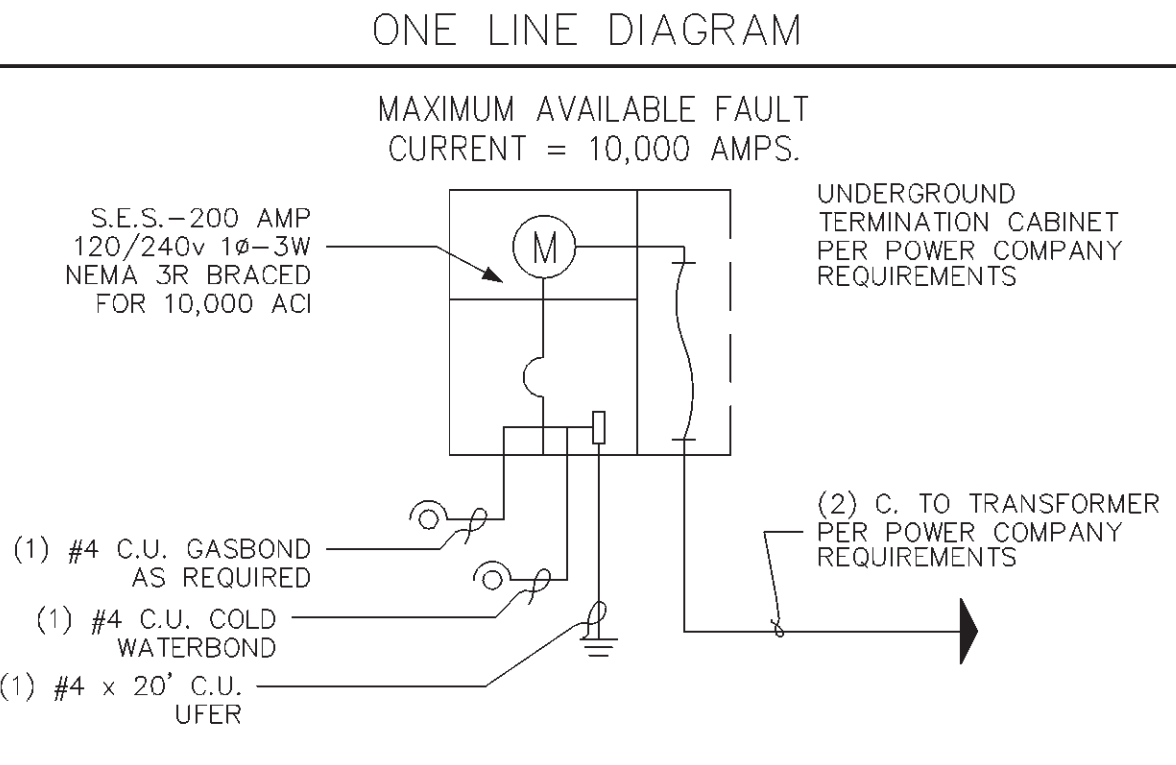
SCALE: 1/4" = 1'-0"



SECOND FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

LOAD CALCULATIONS		
OPTIONAL METHOD WHEN SERVICE ENTRANCE EXCEEDS 100 AMPS		
220-3(b)	1. Dwelling, area in square feet - 1967x 3 watts per sq. ft.	5,901
220-4(c)	2. Laundry circuit, each at 1500 watts	1,500
220-4(b)	3. 2 or more small appliance circuits each at 1500 watts	3,000
220-19	4. Range at name plate rating	12,000
220-18	5. Dryer (use 5000 or name plate rating if larger)	5,000
220-3	6. Dishwasher	1,200
220-3	7. Garbage disposer	750
220-3	8. Water heater	4,500
220-3	9. Cooling, unit FLA + 25% of larger motor 440-33	10,063
(Code Sec.)		
NOTE: TOTAL WATTS INCLUDE ALL LIVABLE OPTIONS		
Total watts, less cool/heat		33,851
1st, 10,000 watts at 100%		10,000
Remainder at 40% Total -10,000 x .40 =		9,540
(Item 11 Heating) Use Larger.		10,063
(Item 12 Cooling)		29,603
TOTAL WATTS		
WATTS 29,603 + 240 VOLTS = 123.35 AMPS		



ELECTRICAL PANEL SCHEDULE (SEE NOTE 16)									
200 AMP 115/230V, 1Ø, 3W PANEL, 175 AMCB OR 200 AMCB									
NO	CKT. DESCRIPTION	LOAD	Ø	T	P	Ø	LOAD	CKT. DESCRIPTION	NO
1	GEN. LTG.	1200	A	15	T	50	A	RANGE/OVEN	2
3			B			2	B	6000	4
5			A			30	A	2250	6
7			B			2	B	2250	8
9			A			60	A	5495	10
11	DISHWASHER	1500	B	20		2	B	5495	12
13	DISPOSAL		A			1	15	A	1200
15	KITCHEN APPLIANCE CKT.		B			1	15	B	1200
17	KITCHEN APPLIANCE CKT.		A			1	20	A	1500
19	LAUNDRY CKT.		B			1	20	B	1500
21	DRYER	2250	A	30			A		20
23		2250	B	2			B		22

ELECTRICAL SYMBOLS	
○ = RECESSED LIGHT	TV = TELEVISION OUTLET
⊕ = "VAPOR PROOF" LIGHT	L = LOW VOLTAGE OUTLET
○ = STD. LIGHT	▽ = OPT. OUTSIDE TELEPHONE
○ = STD. WALL MOUNT LIGHT	▼ = STD. TELEPHONE
\$ = STD. SWITCH	☯ = EXHAUST FAN 5 AIR CHANGES PER HOUR
⊕ = STD. DUPLEX OUTLET	□ = FUSED DISCONNECT SWITCH
⊕ = STD. SWITCHED OUTLET	BB = CHIMES
⊕ = G.F.C.I., W.P. DUPLEX OUTLET	○ = CONDENSOR MOTOR
⊕ = STD. 220v. OUTLET	⊕ = PUSH BUTTON SWITCH
⊕ = STD. CEILING FAN	⊕ = SMOKE DETECTOR
⊕ = OPT. CLG. FAN / STD. LIGHT	⊕ = FLOURESCENT LIGHT
	⊕ = INCANDESCENT BAR LIGHT

GENERAL INFORMATION	
1. ALL KITCHEN ABOVE COUNTER RECEPTACLES SHALL BE INSTALLED @ +44" UNLESS NOTED OTHERWISE	2. ALL BATHROOM ABOVE COUNTER RECEPTACLES SHALL BE INSTALLED @ +40" UNLESS NOTED OTHERWISE
3. GARAGE AND EXTERIOR CONVENIENCE RECEPTACLES SHALL BE INSTALLED @ +24" UNLESS NOTED OTHERWISE	4. EXTERIOR CONVENIENCE RECEPTACLES SHALL BE WEATHER PROOF
5. (2) OR MORE 20 AMP SMALL APPLIANCE CIRCUITS SHALL BE PROVIDED TO SERVE THE KITCHEN, BREAKFAST & DINING ROOM. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.	6. PROVIDE AT LEAST 1-20 AMP CIRCUIT TO SERVE LAUNDRY ROOM. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
7. OUTLET BOXES IN WALLS BETWEEN LIVING SPACE AND GARAGE SHALL BE METAL OR U.L. APPROVED FIRE RESISTIVE PLASTIC. OUTLET BOXES IN GARAGE CEILING SHALL BE METAL.	8. ELECTRICAL PANELS, INCLUDING MECH. EQUIPMENT DISCONNECTS REQUIRE 30" WIDE, 36" DEEP, 75" HIGH CLEAR WORK SPACE IN FRONT. AIR CONDITIONING EQUIPMENT SHALL NOT BE LOCATED IN REQUIRED PATHS OF BEDROOM EGRESS.
9. THE EXHAUST FAN SHOULD BE RATED AT 75 C.F.M.	10. CEILING FAN OUTLET BOXES SHALL BE LISTED FOR THE APPLICATION/LOCATION AND SHALL BE RIGIDLY SECURED IN PLACE.
11. PROVIDE HARD WIRED SMOKE DETECTORS INTERCONNECTED WITH BATTERY BACKUP IN ALL PREVIOUSLY REQUIRED LOCATIONS AND CENTRALLY LOCATED IN BEDROOMS. MAINTAIN MANUFACTURER'S RECOMMENDED DISTANCE FROM CEILING FANS AND SUPPLY AIR AND RETURN AIR OPENINGS.	12. SMOKE DETECTORS LOCATION SHALL COMPLY WITH U.S.C. AS AMENDED FOR DIFFERENT CEILING HEIGHT REQUIREMENTS: 24" RULE.
13. CEILING FANS OR LIGHTS INSTALLED UNDER PATIO COVERS MUST BE LISTED FOR DAMP LOCATIONS. LIGHTS NOT UNDER COVER MUST BE LISTED FOR WET LOCATIONS.	14. FIXTURES IN CLOTHES CLOSETS ARE REQUIRED TO BE 30" FROM STORAGE WALLS, OR IF THE CLOSET IS 24" DEEP, A FLOURESCENT WITH LENS MAY BE MOUNTED ON THE WALL FARTHEST FROM THE STORAGE AREAS.
15. ALL EXTERIOR LIGHTS SHALL BE APPROVED FOR DAMP LOCATIONS.	16. ALL CIRCUIT BREAKERS AND WIRE SHALL BE SIZED FOR THE APPLICATION PER 96 NEC. ALL WIRE SHALL BE THE SAME SIZE ALONG THE ENTIRE LENGTH OF THE BRANCH CIRCUIT. (REFER TO NEC 220 & 310)
KEYNOTES	
No.	DESCRIPTION
1	RANGE/COOKTOP - OPTIONAL GAS
2	OVEN - OPTIONAL GAS
3	REFRIGERATOR
4	FREEZER
5	DISHWASHER
6	PREWIRE FOR MICROWAVE.
7	SINK w/ DISPOSAL
8	WASHER
9	DRYER - 220v. OUTLET REMAINS w/ OPT. GAS.
10	NOT USED
11	20 AMP. CIRCUIT BREAKER OUTLET - 1 LEG SWITCHED @ DISPOSAL, 1 LEG HOT @ DISHWASHER
12	75 C.F.M. EXHAUST FAN
13	STANDARD CEILING FAN - (SEE NOTE 10)
14	STANDARD CEILING FAN/LIGHT- (SEE NOTE 10)
15	REINFORCE J-BOX FOR OPTIONAL PREWIRE PACKAGE FOR CEILING FAN
16	OPTIONAL PATIO LIGHT OR FAN OR FAN/LIGHT. (SEE NOTE 13)
17	NOT USED
18	CHIMES - WIRE TO FRONT DOOR - USE THERMOSTAT FOR POWER
19	SMOKE DETECTOR PER '94 UBC SEC 310.9.1.4. (SEE NOTE 11)
20	NOT USED
21	CEILING OUTLET FOR AUTOMATIC GARAGE DOOR OPENER - GF. PER N.E.C. SEC. 210-8
22	LOW VOLTAGE WIRING TO GARAGE DOOR SENSORS.
23	LIGHT AND SWITCH WITH OPTIONAL EXTERIOR DOOR ONLY.
24	SCUTTLE ACCESS w/ SWITCH AND LIGHT. SEE TYPICAL ATTIC INSTALLATION DIAGRAM.
25	NOT USED
26	ROOF MOUNTED GAS/ELECTRIC AC UNIT w/ 110v CONVENIENCE OUTLET - SEE SHEET M1
27	A/C COMPRESSOR DISCONNECT - COORDINATE LOCATION w/ MECHANICAL CONTRACTOR
28	NOT USED
29	BUILT-IN IRONING BOARD
30	200 AMP SERVICE ENTRANCE - LOCATE PER UTILITY COMPANY
31	200 AMP ELECTRICAL PANEL
32	NOT USED
33	NOT USED
34	NOT USED

PROJECT NO.: RH99-0722

DRAWN BY: STEVE PREUSS

DATE: 25 OCT 99

REVISIONS

Rev.	DATE:
1	
2	
3	
4	

PLAN 1967

SHEET E-1

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ELECTRICAL PLAN

SHEET CONTENT: