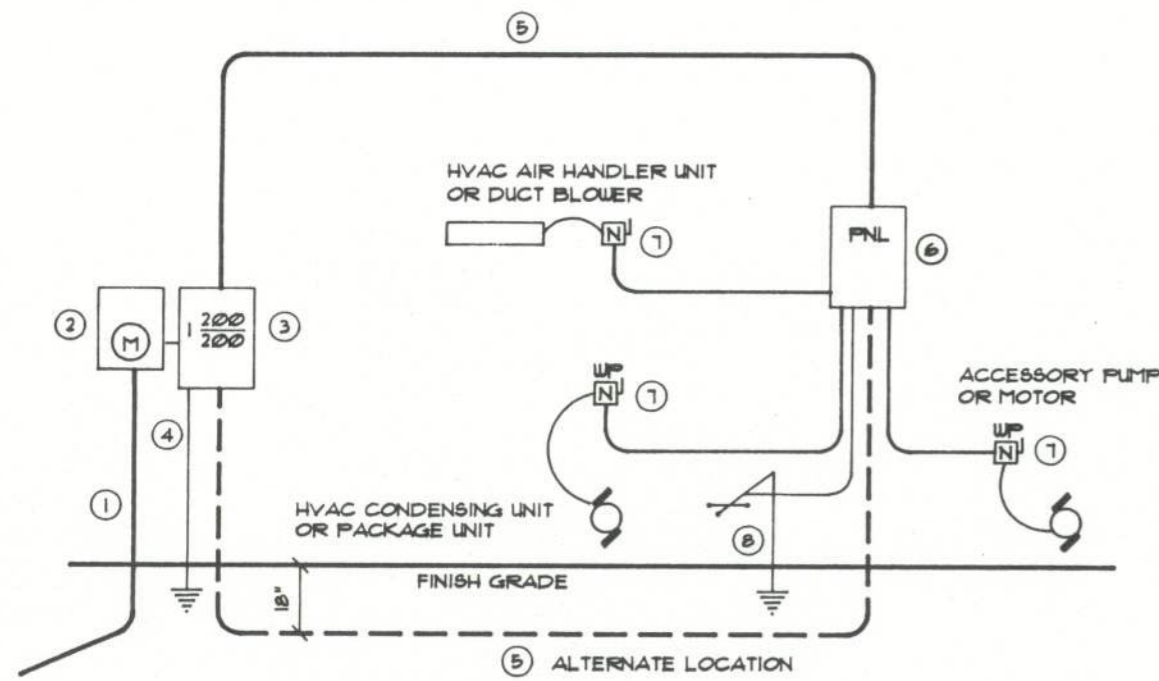


Electrical SYMBOLS

SPST WALL SWITCH	NON-FUSED DISC. SWITCH
DPDT WALL SWITCH (3-WAY)	FUSED DISC. SWITCH - REFER TO PLAN FOR SIZE
DUPLEX WALL RECEPTACLE	NON-FUSED DISC. SW. WEATHER PROOF
DUPLEX WALL RECEPT., BELOW COUNTER	FUSED DISC. SW. WEATHER PROOF
240V OUTLET	TELEPHONE
GND FAULT INTERRUPTER DUPLEX RECEPT.	TELEPHONE, FLOOR OUTLET
WEATHER PROOF GFI DUPLEX RECEPT.	TELEPHONE, DEDICATED
MOTOR	CHIME
ELECTRICAL PANEL	MOMENTARY PUSHBUTTON SWITCH, LIGHTED
EXHAUST FAN	TELEVISION OUTLET
DBL. LAMP INC. FLOOD LIGHT	HVAC THERMOSTAT, • 60" AFF
CEILING FAN, W/ INC. LIGHT FIXTURE	SPST WALL SWITCH, W/ DIMMER
INC. LIGHT FIXTURE	DUPLEX WALL RECEPTACLE, DEDICATED
FLU. WALL LIGHT, FULL CHAIN	QUADRAPLEX WALL RECEPTACLE
4 TUBE FLU. PRISMATIC WRAP SURFACE FIXTURE	DUPLEX WALL RECEPTACLE, 1/2 SWITCHED
TRAK LIGHTING	DUPLEX FLOOR RECEPTACLE
EXIT LIGHT, W/ BATTERY PACK	JUNCTION BOX
SINGLE LAMP TYPE I EMERGENCY LIGHT, W/ BATT. PACK	HEAT LAMP
DUAL LAMP TYPE I EMERGENCY LIGHT, W/ BATT. PACK	INC. LIGHT FIXTURE, FULL CHAIN
SWITCH/FIXTURE WIRING	HIGH HAT DOWN LIGHT
NON-SWITCHED WIRING	HIGH HAT WALL WASHER
	INC. WALL BRACKET
FIRE ALARM FULL STATION	INTERCOM STATION
SMOKE DETECTOR, 120V	INTERCOM MASTER CONTROL
HEAT DETECTOR	PASSIVE IR MOTION DETECTOR
FIRE ALARM MASTER CONTROL CABINET	SOUND DETECTOR
ALARM ANNUNCIATOR	SECURITY ALARM MASTER CONTROL CABINET
STROBE LIGHT	SECURITY ALARM KEYPAD
INTERLOCK WIRING - STROBE/FULL STATION/SMOKE DET.	DOOR/WINDOW SWITCH

NOTE:
THE ASSOCIATED PLANS MAY NOT INCLUDE
ALL OF THE SYMBOLS SHOWN ABOVE.



- Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor. Service/Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed.
- Meter Enclosure, weatherproof, U.L. Listed.
- Main Disconnect Switch fused or Main BRKR, weatherproof, U.L. Listed.
- Service entrance Ground: 1/2" x 1/4" iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 2'-0" long. Grounding Conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item #5, below.
- 200 AMPERE SERVICE: 3-7/8-USE-Cu, 1-1/4-Cu-GND, 2" Conduit.
- House Panel (P.N.L.), U.L. Listed, sized per schedule.
- Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
- Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE:
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS
AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

ELECTRICAL RISER DIAGRAM: 200A

SCALE: NONE

ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf			
214.6 sf x 3w =	6343.8w		
Washer Circuit	1500.0w		
Dishwasher Circuit	1500.0w		
Sm. Appliance Circuits (3 @ 1500w)	4500.0w		
Sub-Total	13843.8w		
1st 3KW @ 100%		3000.0w	
Bal. of KW @ 35%		3795.1 w	
Fixed Appliances:			
Refrigerator	1200.0w		
Cig. Fans (6 @ 200w)	1200.0w		
Irrigation Pump (future)	1200.0w		
Water Well Pump	1200.0w		
Pool Pump (future)	1200.0w		
EWB	4500.0w		
Spares (8 @ 400w)	3200.0w		
Sub-Total	13700.0w		
Load @ 75% D.F.		10275.0w	
100% Demand Factor Loads:			
Dryer	5000.0w		
Range	8000.0w		
HVAC System (4.0T Heat Pump)	4800.0w		
Total Demand Load:		34070.1w	

FEEDER SIZE: 34070.1w / 240v = 141.96 amperes
USE: 3 #2/0 THW w/ 1 # Cu GND / 2 1/2" C.

TYPICAL LOAD COMPUTATIONS:
ELECTRICIAN SHALL PROVIDE LOAD CALCULATIONS
BASED ON THE AS-BUILT CONNECTED LOADS & DEVICES

PANEL SCHEDULE

PANEL "L": 200A - MLO - 120/240V - 1# - 4 WIRE
40 SLOT - FLUSH MOUNT

Cir. Nr.	Location	Trip Poles	Wire Size	Load
1-8	Lighting/Recept.	15A/1P	14NM	6344W
9	Dishwasher	"	"	1500W
10-12	Sm. Kit. Appliances	20A/1P	12NM	4500W
13-14	Ceiling Fans	15A/1P	14NM	1200W
15,17	Fut. Irrigation Pump	20A/1P	12NM	1200W
16	Refrigerator	15A/1P	14NM	1200W
18	Spare	-	-	400W
19,21	EWB	30A/2P	10NM	4500W
20,22	Range	50A/2P	6NM	8000W
23,25	Water Well	20A/2P	12NM	1200W
24,26	Dryer	30A/2P	10NM	5000W
27,29	HVAC CU	50A/2P	6NM	4000W
30,30	HVAC AHU	20A/2P	12NM	800W
31,33	Fut. Pool Pump	20A/2P	12NM	1200W
34	Spare	-	-	400W
35-40	Spare	-	-	2400W

TOTAL CONNECTED LOAD: 43844W

NOTE:
TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE
DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S
DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE
SECTIONS OF NEC-LATEST EDITION.

TYPICAL ELECTRICAL PANEL SCHEDULE:
ELECTRICIAN SHALL PROVIDE A REVISED PANEL SCHEDULE
BASED ON THE AS-BUILT CONNECTED LOADS & DEVICES

ELECTRICAL NOTES: General

- Do not scale the Electrical Drawings. Refer to architectural plans and elevations for exact location of all equipment. CONFIRM with Owner.
- Install all electrical work in conformance with the NEC 1994 edition, and its amendments as adopted by the permit issuing authority at the time of construction.
- GROUNDING: ground all main disconnects to standard ground rod(s) and to cold water supply as per Article 250 of NEC-1994.
- Install only copper wiring on this project: THW, TW, THHN, THHN or NM cable, unless noted otherwise. All conductors #10 and smaller may be solid. All conductors #8 and larger shall be stranded type.
- Provide continuity of Neutral on multi-branch circuits by splicing and bringing out a tap, assuring no openings of Neutral in replacement of a device.
- Color code multi-circuit wiring as follows: Neutral - White, Ground - Green, Line - all other colors.
- Install only high power factor ballasts at fluorescent fixtures.
- Install GFI breakers of devices at all bathroom, rest-room, kitchen, garage and exterior receptacles and as noted on the drawings.
- Install only those electrical devices that bear a "UL" or other recognized Testing Lab Label. All materials shall be new.
- Install non-fused disconnect switches at all places of electrical equipment located where said equipment is not visible from the circuit breaker that protects it: size in accord with the load. All disconnect switches shall be 14F, rated, heavy duty, quick-make - quick-break type - enclosures shall be as req'd for exposure.
- Motor starters shall be manual or magnetic with over-load relays in each hot leg.
- Isolate dissimilar conduit and tubing metals from soil, water and gas piping and other building materials where damage by friction or electrolysis may occur, except where electrical ground is provided.
- Furnish and install all electrical devices and items required for a complete, operating system, providing the functions as detailed in the plans (and specs).
- Outlet boxes shall be pressed steel or plastic or all dry locations. For wet locations, cast alloy with threaded hub outlet boxes shall be installed.
- Hot check all systems with the owner's representative present to verify proper function prior to C.O.
- Coordinate all work through GC to avoid conflicts. Coordinate with HVAC contractor and Electronics Systems contractors so that a complete, functioning system is installed, in each case, with no extra cost to the owner.
- Emergency Lighting and EXIT Signs, if indicated on the plans, shall be wired per NEC 700-12F.
- All panel schedules shall be fully filled out and shall be typewritten. Ea. circuit shall be clearly identified as to what is included on said circuit.
- It is not the intent of these drawings to show every minor detail of the construction.
- The electrical installation shall meet all standard requirements of the power company & telephone company.
- Furnish and install disconnect switches and wiring for HVAC System as per manufacturer's recommendations. Controls are to be supplied by the HVAC contractor, and connected by the Electrical contractor.
- All raceways below ground shall be a minimum of 3/4".
- All circuit breakers, two and three pole, shall be common trip. No tie handles or tandem shall be acceptable.
- All fuses, unless noted otherwise on the drawings, shall be current limited type (CL) rated 200,000 AIC.
- Electrical contractor shall verify all components for all electrical applications & determine the correctness of same. Any discrepancy shall be reported to the owner prior to fabricating any materials, ordering components or doing any work.
- Circuits on Panel Schedule (and Plans) are to determine load data and size. The contractor shall provide circuits and routing of conduits and wiring to suit job conditions, and balance the job, throughout.
- Check equipment for proper voltage, phase and amperage rating prior to connection to circuits.
- Panel boards shall be circuit breaker type. Verify number and sizes of circuits.
- When conduit runs exceed 200 feet, pull boxes shall be installed so that no pull exceeds this distance.
- Electrical equipment AIC rating and feeder size shown on the plans are designed for max. available fault current and max. allowable voltage drop, respectively.

NOTE:
REFER TO DETAILS L1 & L2 ON D.3b
FOR DEVICE WIRING IN LOGS & TIMBERS.

SHEET: D.1d

REVISION:

DRAWN: NPG

DATE: 01NOV96

CONT: SRLH

Custom Log Home Standard Details: ELECTRICAL DETAILS / NOTES

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