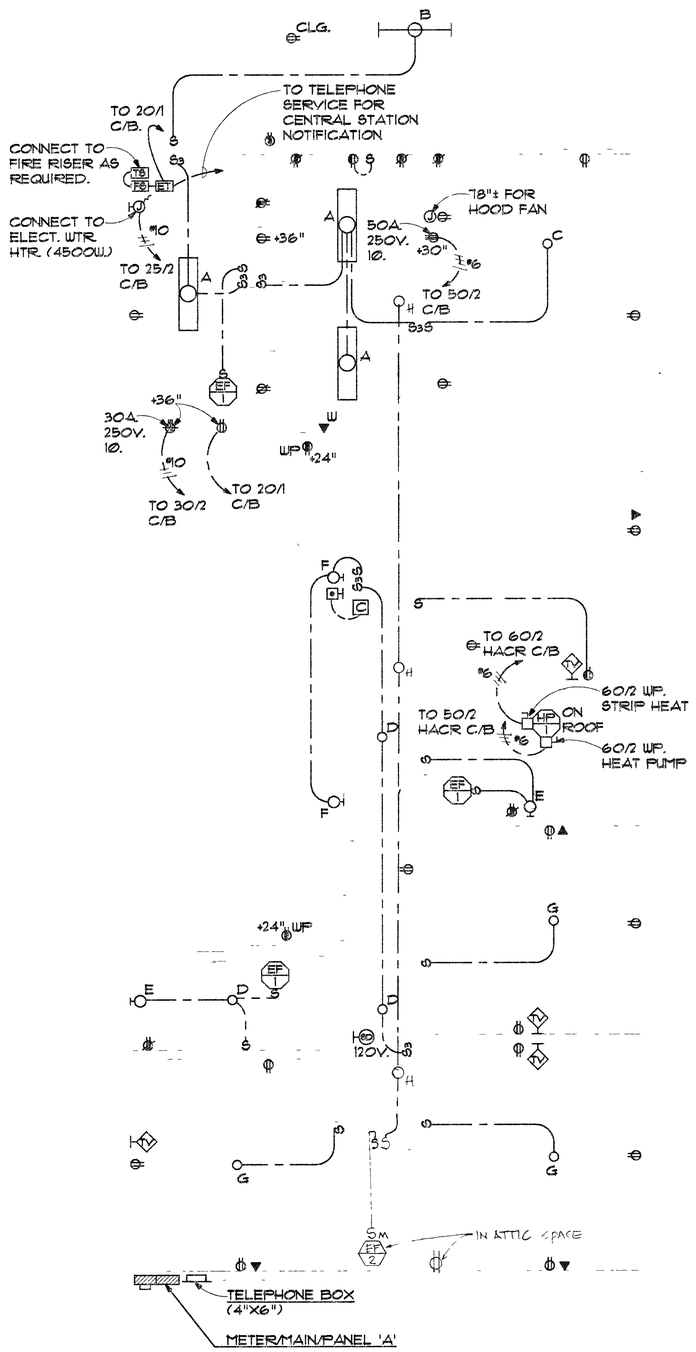


SUPERVISORS RESIDENCE- ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" DEDUCTIVE ALTERNATE NO 1

UNIT SR LOAD CALCULATION
1,425 SF BEDROOM UNIT

GENERAL LIGHTING		
1,425 SF X 3 VA/SF	4,275 VA	
SMALL APPLIANCE (2) @ 1,500 VA EACH	3,000 VA	
LAUNDRY CIRCUIT	1,500 VA	
	8,775 VA	
APPLICATION OF DEMAND		
1ST 3,000 VA @ 100%	3,000 VA	
REMAINDER 5,775 VA @ 35%	2,021 VA	
	SUBTOTAL	5,021 VA
OTHER LOADS		
(1) 3-1/2 TON HEAT PUMP WITH 10,000 VA STRIP HEAT	16,432 VA	
ELECTRIC RANGE – 12,000 VA @ 66%	8,000 VA	
ELECTRIC DRYER	5,000 VA	
	SUBTOTAL	29,432 VA
FIXED APPLIANCES		
DISHWASHER	1,200 VA	
DISPOSAL	696 VA	
ELECTRIC WATER HEATER	4,500 VA	
MICROWAVE	1,200 VA	
	7,596 VA	
APPLICATION OF DEMAND		
7,596 VA @ 75%	5,697 VA	
25% OF LARGEST MOTOR	1,320 VA	
	SUBTOTAL	7,017 VA
172.8 AMPS @ 120/240V, 1, 3W	TOTAL	41,470 VA
200 A LOADCENTER		

MINIMUM NUMBER OF BRANCH CIRCUITS REQUIRED

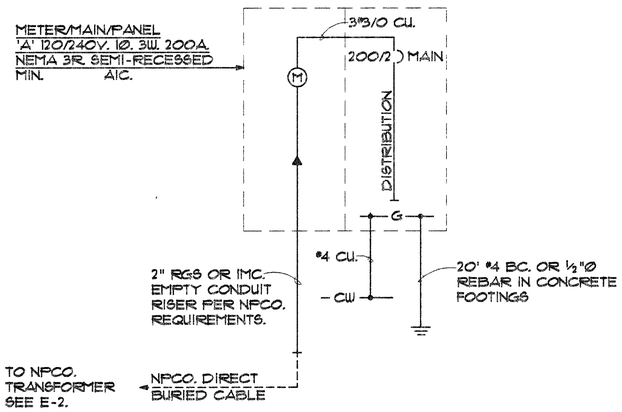
1,425 SF X 3 VA/SF = 4,275 VA 120 = 35.6 A 15	3 CCTS. 120V
SMALL APPLIANCE	2 CCTS. 120V
KITCHEN OUTLETS	1 CCT. 120V
GARAGE CCT.	1 CCT. 120V
LAUNDRY CCT.	1 CCT. 120V
HEAT PUMP	1 CCT. 240V
ELECTRIC RANGE	1 CCT. 240V
ELECTRIC WATER HEATER	1 CCT. 240V
ELECTRIC DRYER	1 CCT. 240V
MINIMUM REQUIREMENT	12 CCTS.
200 AMP 24 POLE LOADCENTER	16 POLES

LIGHT FIXTURE SCHEDULE (SUPERVISORS RESIDENCE)

LETTER TYPE	DESCRIPTION	MOUNTING	FIXTURE WATTAGE	MANUFACTURER	LAMPS	REMARKS
A	1'X4' FLUORESCENT WRAPAROUND FIXTURE	SURFACE	75	EQUAL TO PROGRESS #P7250-35/P7214ES 120V.	(2) F40/ D830/ES	
B	4' FLUORESCENT CEILING WRAPAROUND FIXTURE		75	EQUAL TO PROGRESS #P7186ES 120V.	(2) F40/ D830/ES	
C	INCANDESCENT DECORATIVE FAN/ LIGHT FIXTURE		400 MAX.	CONTRACTOR SHALL REINSTALL FIXTURE REMOVED FROM VISITORS CENTER. SEE E-4	(4) 40W.	
D	INCANDESCENT UTILITY FIXTURE WITH WHITE GLASS		60	EQUAL TO PROGRESS #P3408-30 120V.	(1) 60A.	
E	FLUORESCENT WALL BRACKET BATHROOM FIXTURE	SURFACE ABOVE MIRROR	50	EQUAL TO PROGRESS #P7151-30 120V.	(2) F20T12/ D830	
F	INCANDESCENT DECORATIVE EXTERIOR WALL BRACKET	SURFACE @ +6'-6"	100	EQUAL TO LIGHTOLIER #3655WH 120V.	(1) 100A.	WET LOCATION LABEL
G	INCANDESCENT DECORATIVE CEILING FIXTURE	SURFACE CEILING	180	EQUAL TO PROGRESS #P4855 120V.	(3) 60A.	
H	INCADESCENT	SURFACE	75	KEYLESS PORCELAIN SOCKET	(3) 75A	LOCATED IN ATTIC

SPECIFICATIONS - SUPERVISORS RESIDENCE ONLY

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS TOGETHER WITH THE DRAWINGS.
2. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND OTHER APPLICABLE STATE OR LOCAL CODES OR REGULATIONS.
3. GROUND ALL ELECTRICAL EQUIPMENT AND THE SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.
5. ALL WIRING SHALL BE DONE IN TYPE NMB (ROMEX) CABLE.
6. OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT.
7. FURNISH ALL MATERIALS AND TEMPORARY LIGHTS AND WIRING REQUIRED DURING THE CONSTRUCTION OF THE PROJECT FOR ALL TRADES THAT REQUIRE POWER. COMPLY WITH OSHA AND NEC REQUIREMENTS.
8. GUARANTEE ALL WORK AND MATERIALS TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND DAMAGE DONE TO THE PROPERTY DURING REPAIR WORK AT NO EXPENSE TO THE OWNER. ALL MATERIALS SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE.
9. ARRANGE WITH AND PAY FOR ALL PROVISIONS FOR PREWIRING OF RESIDENCE WITH THE TELEPHONE COMPANY PRIOR TO START OF CONSTRUCTION.
10. PROVIDE 300 OHM TELEVISION CABLE FROM EACH TV OUTLET TO ATTIC AREA ADJACENT TO ATTIC ACCESS. PROVIDE 20 FEET OF CABLE SLACK AND COILED AND HUNG IN ATTIC FOR CONNECTION TO FUTURE TV ANTENNA.
11. PROVIDE (1) KEYLESS PORCELAIN SOCKET WITH (1) 100A LAMP, SWITCH AND DUPLEX RECEPTACLE ADJACENT TO ATTIC ACCESS.



ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE

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Sheet Title: ELECTRICAL PLAN, DIAGRAM AND SCHEDULE
Job Title: FLOYD LAMB STATE PARK
Verify all Dimensions and Conditions at the Site

Job 9109020
Date 7/1/94
Drawn By JBQ
Check F.T.H.
Sheet E-4
Of 4

HARRIS ENGINEERS, INC.
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