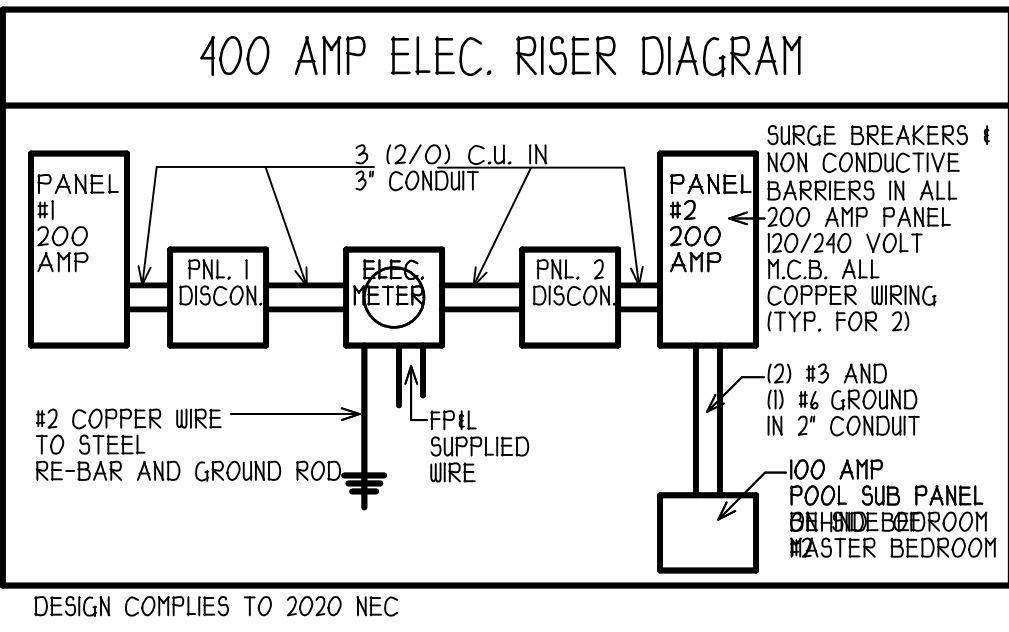
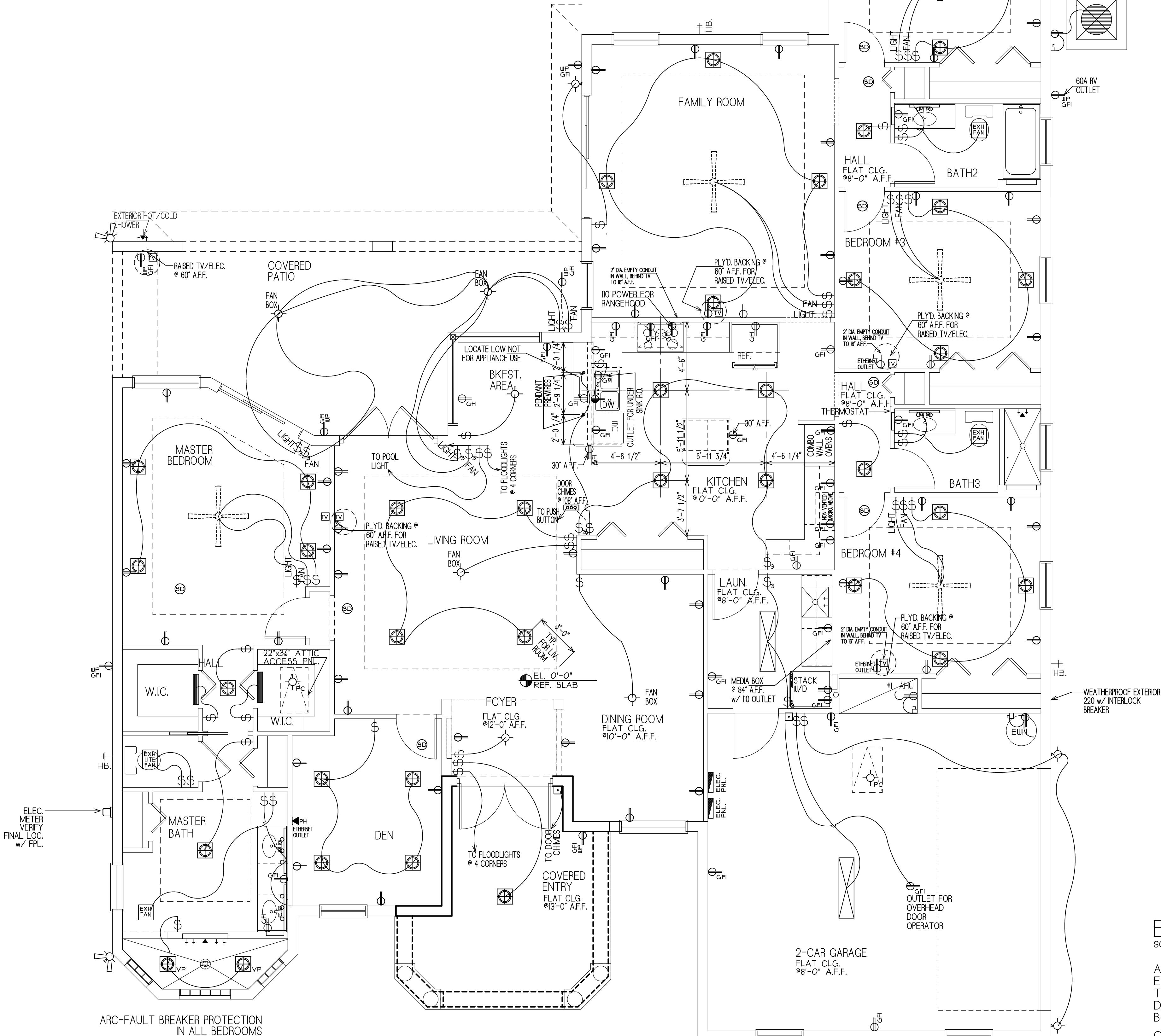


ELEC. LOAD CALC. & PANEL #1						
CIRCUIT NUMBER	DESCRIPTION	CIRCUIT BW		WIRE	WATTS	REMARKS
		POLE	TRIP			
1-5	GENERAL LTG.	1	15	14	5881	.
6	DINING ROOM	1	15	14	1118	.
7-12	GENERAL LTG.	1	15	14	1045	.
13-15	APPLIANCES	1	20	12	3000	.
16	EXT. GFI	1	20	12	1500	.
17	EXT. LTG.	1	20	12	1500	.
18	DISHWASHER	1	20	12	1500	.
19	LAUNDRY	1	20	12	1500	.
20-22	WELL PUMP	2	30	10	1500	.
21	REFRIGERATOR	1	20	12	1500	.
23	RANGEHOOD	1	20	12	100	.
24	GAR. DR. OPNR.	1	20	12	800	CEILING GFI
25	MICROWAVE	1	20	12	1500	.
26	GARAGE APPLIANCE OUTLET	1	20	12	1500	NOT USED
27-42	SPARES	.	.	.	.	.
TOTAL LOAD = 30,630W						
FIRST 10 KW @ 100% = 10000 A/C 10 K.W. @ 100% = 00000 REMAINDER @ 40% = 20,630 @ 40% = 8,252 TOTAL = 18,252 TOTAL /240 = 76.05 AMPS MIN.						

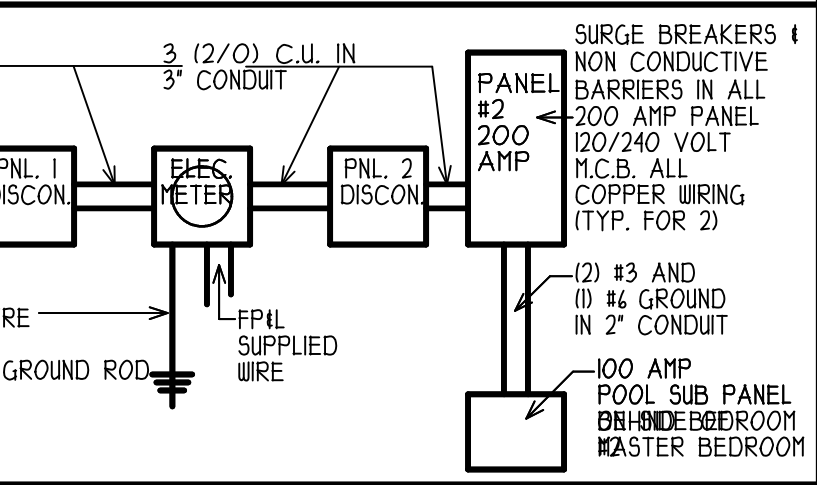
ELEC. LOAD CALC. & PANEL #2						
CIRCUIT NUMBER	DESCRIPTION	CIRCUIT BW		WIRE	WATTS	REMARKS
		POLE	TRIP			
1-3	WATER HEATER	2	30	10	4500	.
2-4	RANGE OR COOKTOP	2	50	6	8000	.
5-7	DOUBLE OVENS	2	40	10	4800	.
6-8	DRYER	2	30	10	5000	.
9-11	A/C COMP. #1	2	40	8	-----	NON CURRENT
10-12	A.H.U. w/ HEAT #1	2	60	6	(10000)	10 KW. STRIP
13-15	100 AMP POOL SUB PANEL	2	100	3	24,000	100 AMP CIRCUIT w/ 2 POLE BREAKER & #3 WIRE TO 100 AMP EXTERIOR SUB PANEL ENCLOSURE w/ (2) 50A BREAKERS
14-42	SPARES					
TOTAL LOAD = 41,500 W						
FIRST 10 KW @ 100% = 10000 A/C 10 K.W. @ 100% = 10000 REMAINDER @ 40% = 31,500 @ 40% = 12,600 TOTAL = 32,600 TOTAL /240 = 135.83 AMPS MIN. PROVIDE 400 AMP TOTAL SERVICE						

PANEL #1 = 76.05 AMPS
PANEL #2 = 135.83 AMPS
TOTAL = 211.89 AMPS

ELECTRICAL SYMBOLS							
	110V DUPLEX		TV JACK		DISCONNECT		DOOR CHIMES
	HALF-HOT		PHONE JACK		ELEC. METER		FLUORESCENT CLOSET FIXTURE
	220V OUTLET		BUTTON		ELEC. PANEL		VANITY STRIP LIGHT FIXTURE 24", 30" OR 36"
	SINGLE SWITCH		SMOKE DETECTOR w/ C.O. MIN. 52" FROM FANS		LIGHT FIXTURE		
	3-WAY SWITCH		HI-HAT		PULL CHAIN LIGHT FIXTURE	NOTE: LOW VOLTAGE BOX LOCATED 1'-0" A.F.F. IN LAUNDRY ROOM (TYP)	
	GFI OUTLET		VAPOR PROOF HI-HAT		EXT. MOTION DET./SW./LIGHT		
	WEATHER-PROOF GFI OUTLET		EXHAUST FAN		WALL MOUNTED LIGHT FIXTURE		



400 AMP ELEC. RISER DIAGRAM



DESIGN COMPLIES TO 2020 NEC

FIELD TRADES NOTES:	
TRIM/CARPENTRY 2 PANEL INTERIOR AND EXTERIOR DOORS INTERIOR DOORS TO BE SOLID CORE NOT HOLLOWING SPINDLES EXTENDED COVERED REAR PATIO SCULPTURE OFF DRY NEAR FRONT PORCH EXTENDED FRONT OF GARAGE 24"	STRUCTURAL EXTENDED COVERED REAR PATIO SCULPTURE OFF DRY NEAR FRONT PORCH EXTENDED FRONT OF GARAGE 24"
INSULATION SWIFT FOUR WALLS FOR ALL ACX BRACES AND GARAGE #9 CORE FILL INSULATION WITH POLYMER EMULSION BLOCK WALLS	FRAMING/DRY WALL TRIM: 1" X 4" X 8" X 12" X 16" X 20" X 24" X 30" X 36" X 42" X 48" X 54" X 60" X 66" X 72" X 78" X 84" X 90" X 96" X 102" X 108" X 114" X 120" X 126" X 132" X 138" X 144" X 150" X 156" X 162" X 168" X 174" X 180" X 186" X 192" X 198" X 204" X 210" X 216" X 222" X 228" X 234" X 240" X 246" X 252" X 258" X 264" X 270" X 276" X 282" X 288" X 294" X 300" X 306" X 312" X 318" X 324" X 330" X 336" X 342" X 348" X 354" X 360" X 366" X 372" X 378" X 384" X 390" X 396" X 402" X 408" X 414" X 420" X 426" X 432" X 438" X 444" X 450" X 456" X 462" X 468" X 474" X 480" X 486" X 492" X 498" X 504" X 510" X 516" X 522" X 528" X 534" X 540" X 546" X 552" X 558" X 564" X 570" X 576" X 582" X 588" X 594" X 600" X 606" X 612" X 618" X 624" X 630" X 636" X 642" X 648" X 654" X 660" X 666" X 672" X 678" X 684" X 690" X 696" X 702" X 708" X 714" X 720" X 726" X 732" X 738" X 744" X 750" X 756" X 762" X 768" X 774" X 780" X 786" X 792" X 798" X 804" X 810" X 816" X 822" X 828" X 834" X 840" X 846" X 852" X 858" X 864" X 870" X 876" X 882" X 888" X 894" X 900" X 906" X 912" X 918" X 924" X 930" X 936" X 942" X 948" X 954" X 960" X 966" X 972" X 978" X 984" X 990" X 996" X 1002" X 1008" X 1014" X 1020" X 1026" X 1032" X 1038" X 1044" X 1050" X 1056" X 1062" X 1068" X 1074" X 1080" X 1086" X 1092" X 1098" X 1104" X 1110" X 1116" X 1122" X 1128" X 1134" X 1140" X 1146" X 1152" X 1158" X 1164" X 1170" X 1176" X 1182" X 1188" X 1194" X 1200" X 1206" X 1212" X 1218" X 1224" X 1230" X 1236" X 1242" X 1248" X 1254" X 1260" X 1266" X 1272" X 1278" X 1284" X 1290" X 1296" X 1302" X 1308" X 1314" X 1320" X 1326" X 1332" X 1338" X 1344" X 1350" X 1356" X 1362" X 1368" X 1374" X 1380" X 1386" X 1392" X 1398" X 1404" X 1410" X 1416" X 1422" X 1428" X 1434" X 1440" X 1446" X 1452" X 1458" X 1464" X 1470" X 1476" X 1482" X 1488" X 1494" X 1500" X 1506" X 1512" X 1518" X 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