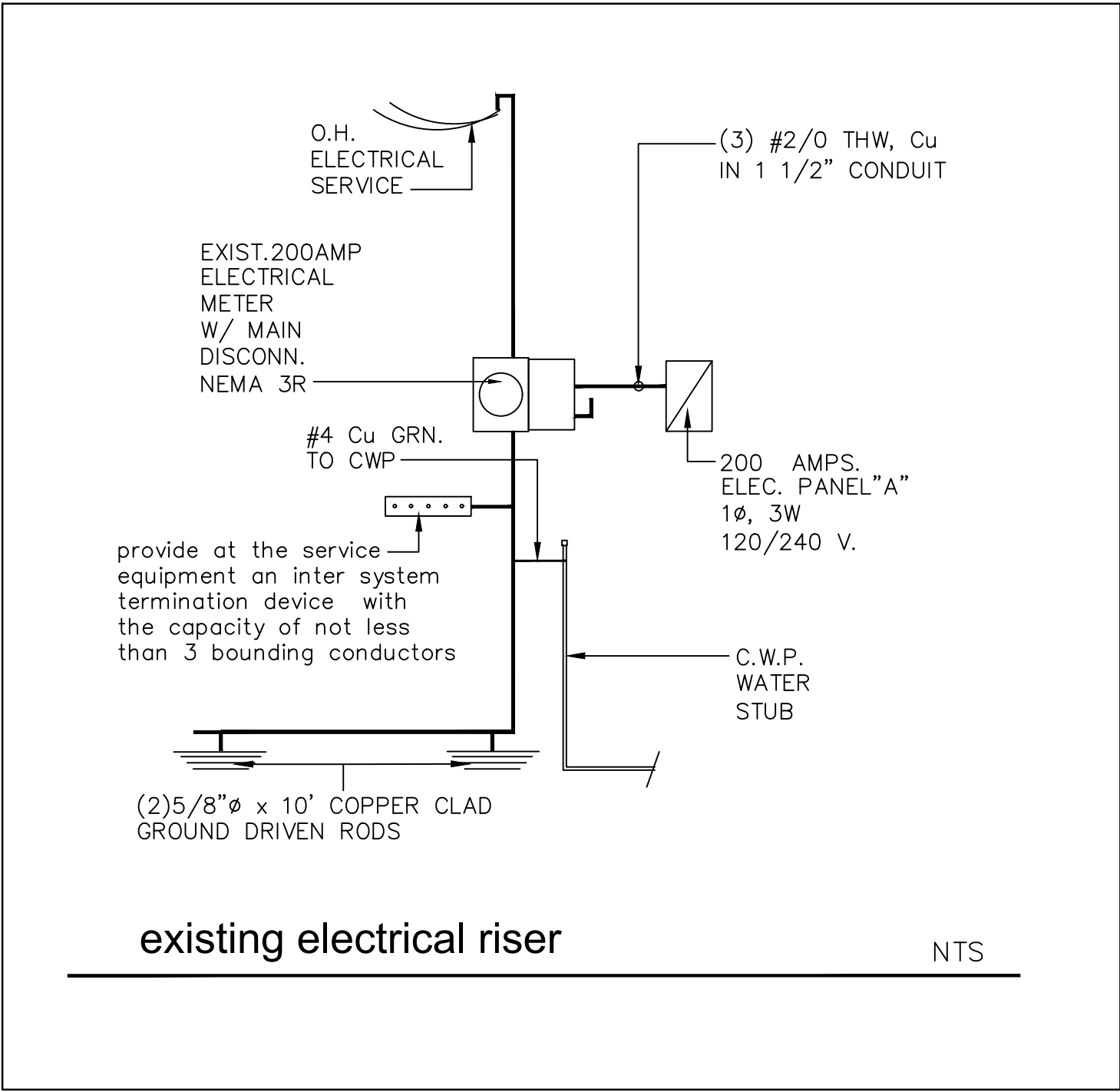
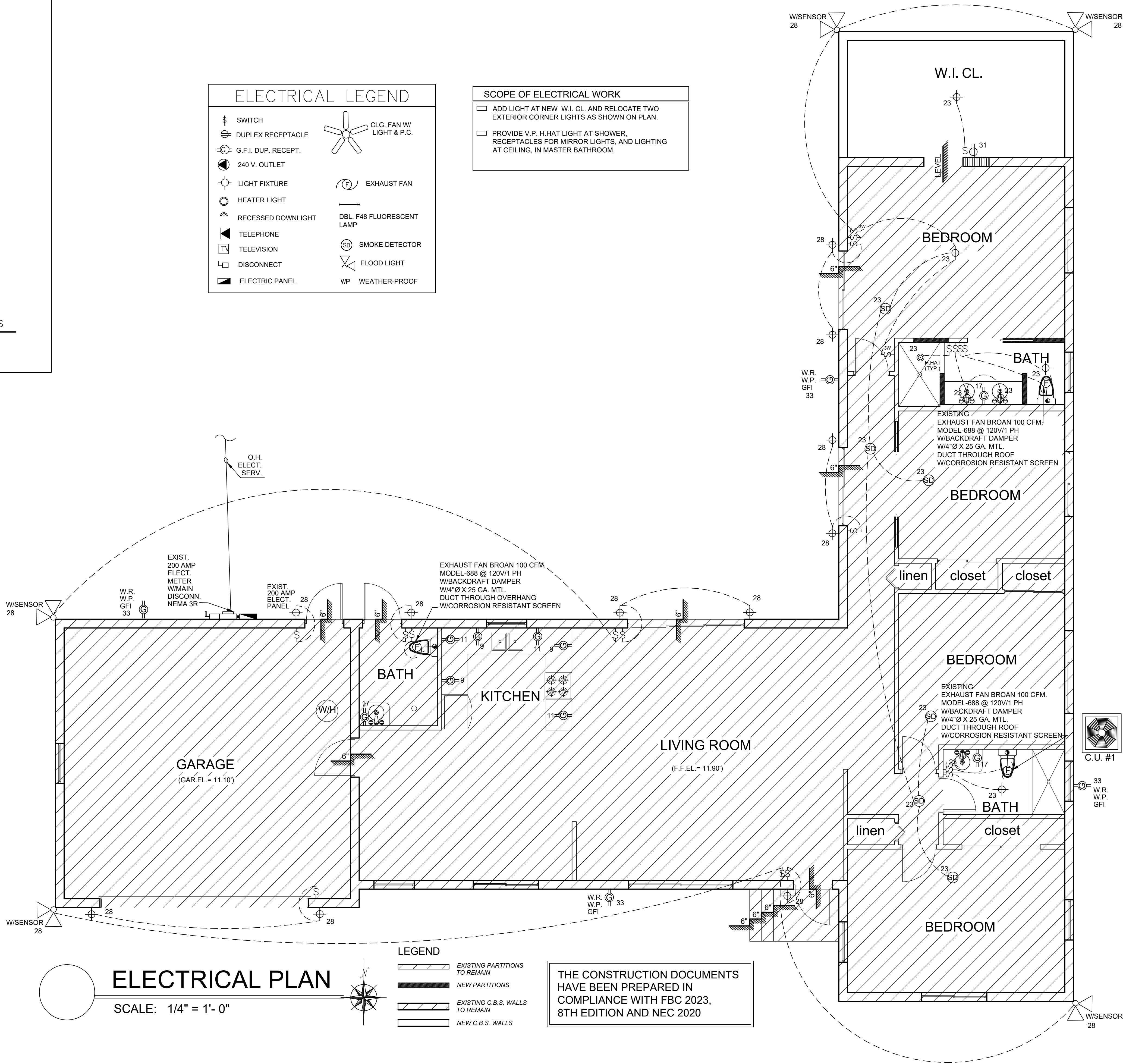




ELECTRICAL LEGEND	
SWITCH	CLG. FAN W/ LIGHT & P.C.
DUPLEX RECEPTACLE	EXHAUST FAN
G.F.I. DUP. RECEPT.	DBL. F48 FLUORESCENT LAMP
240 V. OUTLET	SMOKE DETECTOR
LIGHT FIXTURE	FLOOD LIGHT
HEATER LIGHT	WP WEATHER-PROOF
RECESSED DOWNLIGHT	
TELEPHONE	
TELEVISION	
DISCONNECT	
ELECTRIC PANEL	

SCOPE OF ELECTRICAL WORK	
ADD LIGHT AT NEW W.I. CL. AND RELOCATE TWO EXTERIOR CORNER LIGHTS AS SHOWN ON PLAN.	
PROVIDE V.P. H.HAT LIGHT AT SHOWER, RECEPTACLES FOR MIRROR LIGHTS, AND LIGHTING AT CEILING, IN MASTER BATHROOM.	



FAUSTO GUERRERO

No. 50465

STATE OF FLORIDA

PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by FAUSTO GUERRERO, P.E. on the date adjacent to the seal.

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FAUSTO GUERRERO

ENGINEER

FL. P.E.# 50465

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19552 SW 133rd AVENUE, MIAMI, FL, 33177

SEAL

CONSULTANT:

PROJ. MANAGER:

PEDRO PUERTO/C.B.S.

305-262-8075

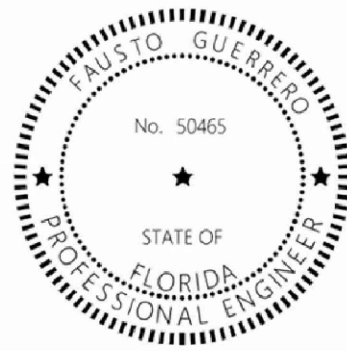
PROJECT INFORMATION

ADDITION & INT. REMODELING FOR RESIDENCE OF VANESSA SHAPIRO

7901 SW 136th STREET PINECREST, FL. 33156

REVISION:	DATE:	DESCRIPTION:
DATE:	05-02-25	
JOB NUMBER:	25-10	
TITLE:		

E-1



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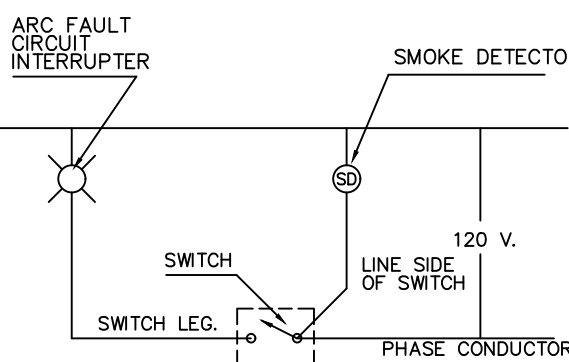
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TITLE:

E-2

NOTES:
SMOKE DETECTORS ARE BATTERY BACK UP, 36" AWAY FROM ANY A/C VENT, AND INTERCONNECTED.
HARD WIRED CARBON MONOXIDE DETECTOR W/BATTERY BACKUP

NOTE:
ALL SMOKE ALARM SHALL COMPLY WITH FBC R 314, 315, NFPA 72, UL 217, AND UL 2034.



NOTE:
SMOKE DETECTOR SHALL BE HARDWIRED (110 VOLT TYPE) TO A NON-SWITCHABLE ARC FAULT CIRCUIT INTERRUPTER, WITH BATTERY BACK-UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED.

smoke detector connection detail

NTS

NOTE:
ALL 120 VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS (MODIFIED, REPLACED, OR EXTENDED) SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT BEDROOMS, LIVING ROOMS., DINING ROOMS., FAMILY ROOMS., PARLORS, LIBRARIES, DENS, SUNROOMS, RECREATION ROOMS, CLOSET, HALLWAYS, KITCHENS, LAUNDRY AREAS, AND ALL SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED UL AFCI COMBINATION TYPE & TAMPER RESISTANT. 2017 NEC, SECTION 210.12.

NOTE:
NON-LOCKING RECEPTACLES IN DAMP AND WET LOCATIONS SHALL BE LISTED WEATHER-RESISTANT (IN ADDITION TO PROVISION OF THE REQUIRED TYPE OF COVERS) NEC 406.8 (A) & (B).

NOTE:
TAMPER RESISTANT RECEPTACLES ARE REQUIRED FOR ALL 15 AND 20 AMP 125 VAC RECEPTACLES

NOT LESS THAN 90% OF THE LAMPS SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS/W OR NOT LESS THAN 65 LUMENS/W - FBC RE404

THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED IN COMPLIANCE WITH FBC 2023, 8TH EDITION AND NEC 2020

Electrical Notes:

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION ON THE "NATIONAL ELECTRICAL CODE" (NEC) & THE "FLORIDA BUILDING CODE" (FBC).
2. ALL CABLE SHALL BE COPPER UNLESS OTHERWISE NOTED AND APPROVED.
3. INDOORS CONDUIT SHALL BE EMT OR RMX CABLE.
4. OUTDOORS UNDERGROUND CONDUITS SHALL BE SCHEDULE-40 PVC UNDER PAVED AREAS.
5. CONTRACTOR SHALL FURNISHED ALL LABOR, MATERIALS AND EQUIP. FOR A COMPLETE ELEC. INST. IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS AND APPLICABLE CODES AND REGULATIONS.
6. ELEC. CONTRACTOR TO COORDINATE ALL OUTLET LOCATIONS WITH BLDG. AND ARCH. FIXTURES.
7. ELCT. CONTRACTOR TO PROVIDE EMPTY CONDUITS AS REQD. FOR TELEPHONE LINES & T.V. LINES.
8. ALL MOUNTING HARDWARE SHALL BE BY CONTRACTOR.
9. ALL LIGHT FIXTURES AND FANS TO BE SELECTED BY OWNER, UNLESS OTHERWISE NOTED.
10. ELECTRICAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMENCING ANY WORK. CONTRACTOR TO VERIFY AND APPROVE ALL INFORMATION ON DRAWINGS. ACCEPTANCE OF THESE PLANS CONSTITUTES APPROVAL. PLEASE NOTIFY ARCHITECT / ENGINEER BY CERTIFIED MAIL ON ANY CONFLITS OR DISCREPANCIES IF ANY.

TYPE : SQUARE "D" or APPROVED EQUAL

SERVICE : 240/120V 1 Ø - 3/W

VOLTAGE : 240/120V 1 Ø - 3/W

MOUNTING : SURFACE

MAIN BUS : 200 AMPS

NEUTRAL : 200 AMPS

MAINS : 200 AMPS

LOCATION :

PANEL :

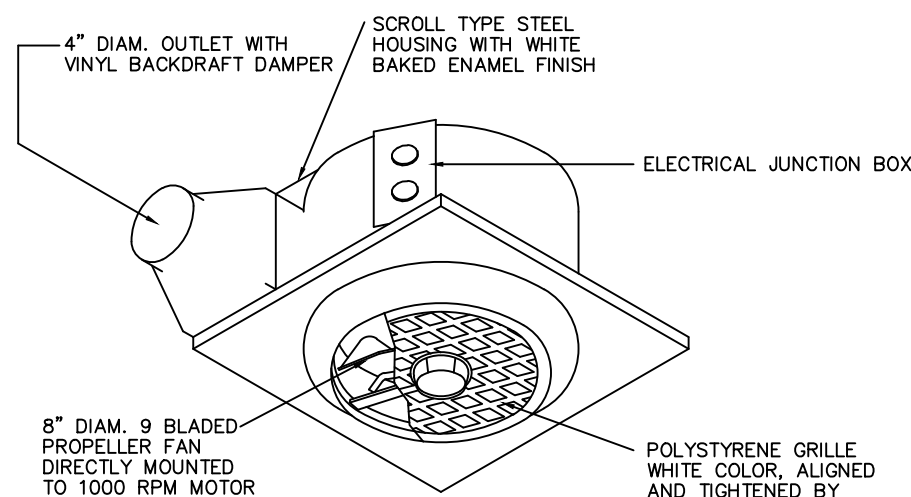
AMPS	POLES	TOTAL V.A.	COND SIZE+	WIRE	REMARKS	CKT. NO.		CKT. NO.	REMARKS	WIRE	COND SIZE+	TOTAL V.A.	POLES	AMPS
50	2	12000	1"	3# 6/ & 1#10 E.O. GROUND	RANGE/OVEN	1	●	2	A.H.U	6	1"	10000	2	60
						3	●	4						
25	2	4500	1/2"	10	WATER HTR.	5	●	6	WASHER	12	1/2"	1500	1	20
						7	●	8	KITCHEN LIGHT	14	1/2"	750	1	15
20	1	1500	1/2"	12	SMALL APPL.	9	●	10						
↓	↓	↓	↓	↓	↓	11	●	12	C.U.	10	1/2"	4200	2	30
					SPARE	13	●	14						
20	1	900	1/2"	12	GFI RECEPT.	15	●	16	REFRIGERATOR	12	1/2"	1500	1	20
20	1	900	1/2"	12	BATH GFI	17	●	18	LIVING RM LIGHT	14	ROMEX	*	1	15
30	2	5000	1/2"	3#10 & 1#10 E.O. GROUND	DRYER	19	●	20	LIVING RM RECEP.					
						21	●	22	LIVING RM RECEP.					
15	1	*	ROMEX	14	BRM.LT & SMOKE DET.	23	●	24	GARAGE RECEP.					
					BEDROOM OUTLETS	25	●	26	GARAGE LIGHT					
						27	●	28	EXTERIOR LIGTHS	↓	↓	↓	↓	↓
						29	●	30						
↓	↓	↓	↓	↓	↓	31	●	32						
20	1	900	1/2"	12	EXTERIOR GFI	33	●	34						
						35	●	36						
						37	●	38						
						39	●	40						
						41	●	42						

DEMAND LOAD : 30,510 W = 127 AMP

(SEE LOAD CALCULATION) 10,000 AIC

FEEDER : 3 # 2/0 THWN CU IN 1-1/2"Ø COND

FED FROM : SERVICE.



TYPICAL CEILING EXHAUST FAN DETAIL

FAN no.	CFM	VOLTS/PHASE	MODEL	MFR.	ACCESSORIES
EF-1	100	120 V/ 1 HP/	688	BROAM OR EQUAL	W/ BACKDRAFT DAMPER W/4\"/>

ELECTRICAL LOAD CALCULATION

A. - GENERAL LIGHTING LOAD
2,625 SQ. FT. @ 3W/SQ. FT. = 7,875 WATT

B. - TWO SMALL APPLIANCE
CIRCUITS X 1,500 = 3,000 WATT

C. - FIXED APPLIANCES:

RANGE	12000
REFRIGERATOR	1500
DRYER	5000
WASHER	1500
WATER HTR.	4500

D. - ONE G.F.I. BATH CIRCUIT
X 900 = 900 WATTS

CONNECTED LOAD LESS A/C =36,275 WATT

10000 W @ 100% = 10,000 WATT

REST W @ 40% =10,510 WATT

A/C (or heating) @ 100% =10,000 WATT

DEMAND LOAD = 30,510 / 240 WATT = 127 AMP @ 240/120 V

SERVICE SIZE = 200 AMP