1-OUTLET PLACEMENT SHALL COMPLY WITH IRC E3801.2.1 SEE PLAN FOR LOCATION OF OUTLETS TO COMPLY.

2-MIN CLEARANCE FIXTURE TO SHELVING 15" IRC E3909.11

3-SMOKE DETECTORS TO COMPLY WITH IRC R313 BE HARDWIRED AND INTERCONNECTED, W/ BATTERY BACK-UP POWER. SEE PLAN FOR LOCATION.

4-ELECTRICAL PANELS TO COMPLY WITH IRC E3305 30" CLEARANCE MIN WIDTH 36" IN FRONT OF PANEL TO A HEIGHT OF 6'-0" FLR TO CLG

5-GFI OUTLETS REQUIRED WITHIN 6' OF SINK, AT GARAGES, BATHS, OUTSIDE AND UNFINISHED BASEMENTS

6-MIN 18" AFF OUTLETS IN GARAGE

7-ELECTRIC METERS TO BE LOCATED IN ACCESSIBLE AREA PROTECTED FROM WEATHER

8-PROVIDE (2) 20 AMP CIRCUITS TO KITCHEN

9-TWO OR MORE 20 AMPERE SMALL APPLIANCE CIRCUITS SHALL BE PROVIDED TO SERVE THE KITCHEN, BREAKFAST ROOM & DINING ROOM. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. IRC E3603.2

10-AT LEAST ONE 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SERVE THE LAUNDRY ROOM. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. IRC E3603.3

11-EXTERIOR LAMPS TO BE LISTED FOR USE IN WET LOCATIONS IF NOT UNDER COVER AND TO BE LISTED FOR USE IN DAMP LOCATIONS IF UNDER A ROOF.

12-CEILING FAN OUTLET BOXES SHALL BE LISTED FOR THE APPLICATION/LOCATION AND BE RIGIDLY SECURED IN PLACE.

13-PROVIDE LIGHT & OUTLET @ AIR HANDLER IN ATTIC W/ SWITCH @ ACCESS OPENING

14-RECEPTACLE OUTLETS FOR RANGES AND CLOTHES SHALL BE 3-POLE W/ GROUND TYPE, 4-WIRE, GROUNDING - TYPE FLEXIBLE CORDS WILL BE REQ'D FOR CONNECTION FOR RANGES AND CLOTHES DRYERS. THE BONDING JUMPER SHALL NOT BE CONNECTED BETWEEN THE NEUTRAL TERMINAL AND THE FRAME OF THE APPLIANCE.

15-PROVIDE BONDING TO THE INTERIOR WATER PIPING AND ABOVE GROUND PORTION OF GAS PIPING SYSTEMS.

16-ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPHERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BED-ROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT

17-RECESSED INCANDESCENT LIGHTS SHALL MAINTAIN A 3" CLEARANCE TO INSULATION OR BE LISTED TO HAVE INSULATION IN DIRECT CONTACT WITH THE FIXTURE.

18-ALL LUMINAIRES INSIDE CLOTHES CLOSETS SHALL BE FULLY ENCLOSED.

OPTIONAL CALCULATION ** DWELLING UNIT
** NOTE: MINIMUM OF 400A

LOAD CALCULATIONS

JOB NAME/NUMBER: STREET OF DREAMS — PLAN# 4900

	INPUT		MATTS	REMARKS
SQ. FOOT	4800	x 3	14400	3 MATTS PER SQ. FT.
SMALL APPL.	3	x 500	4500	MINIMUM OF 2
GARB. DISP.	1	x 921	921	1/2 H.P.
DISHWSHR	2	x 1500	3000	NAMEPLATE RATING
COOKTOP	1	x 6000	6000	SELF CLEAN
OVENS	1	x 6000	6000	
WASHER	1	x 930	930	STANDARD
DRYER	1	x 5600	5600	STANDARD
BATHROOM CIRCUIT	3	x 1500	4500	STANDARD
LAUNDRY CIRCUIT	1	x 1500	1500	
REFRIGERATOR	1	x 1200	1200	
W.C. REFRIGERATOR	0	x 400	0	
FREEZER	0	x 1200	0	
MWO/MWE	1	x 1200	1200	
TRASH COMPACTOR	0	x 1200	0	
GARAGE DOOR OPENER	2	x 956	1912	
JACUZZI	0	x 956	0	
HOTWATER TK	2	x 4500	9000	
ELEVATOR	0	x 4080	0	
	TOTAL MATTS =		62284	
1ST 10,000 @ 100%			10000	
REMAINDER @ 40%			20914	
TOTAL MATTS/ABOVE			30914	
USE THE LARGEST LOAD OF HEATING OR A/C *				
A/C & HT PMP (3)	1440	x 100%	22320	NAMEPLATE 31A x 240
INDOOR UNIT (2)	1344	x 100%	4032	NAMEPLATE 56A x 240
POOL EQUIP. (0)	14400	x 100%	0	NAMEPLATE (OPTION)
SPA EQUIP. (0)	1200	x 100%	0	
SWAMP COOLER (0)	1440	x 100%	0	
SUMP PUMP (0)	1172	x 100%	0	
	TOTAL MATTS =		51386	
TOTAL MATTS / 240 VOLTS =			238.61 AMPS	

PLAN 446 · AMP 200 · VOLTS 120/240

PANEL SCHEDULE 'A'

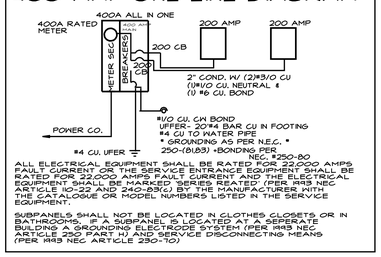
WIRE SIZE	BRKR SIZE	ITEM	CIRCUIT ID		ITEM	BRKR SIZE	WIRE SIZE
14	15	LIGHTING	1	2	LIGHTING	15	14
14	15	LIGHTING	3	4	LIGHTING	15	14
14	15	LIGHTING	5	6	LIGHTING	15	14
10	30	HOTWATER	7	8	LIGHTING	15	14
10	30	HOTWATER	9	10	LIGHTING	15	14
12	20	KIT. APPL	11	12	KIT. APPL	20	12
12	20	LIGHTING	13	14	LIGHTING	15	14
12	20	MICROWAVE	15	16	AIR HANDLER	15	14
12	20	REFRIGERATOR	17	18	AIR HANDLER	15	14
6	50	OUTDOOR A/C	19	20	GARAGE DOOR	20	12
6	50	OUTDOOR A/C	21	22	GARAGE DOOR	20	12
12	20	JACUZZI	23	24	BATH GFI'S	15	14
15	20	AFCI/BEDROOM	25	26	LAUNDRY	20	12
14	20	AFCI/BEDROOM	27	28	GARAGE	20	12
			29	30			

PLAN 446 · AMP 200 · VOLTS 120/240

PANEL SCHEDULE 'B'

WIRE SIZE	BRKR SIZE	ITEM	CIRCUIT ID		ITEM	BRKR SIZE	WIRE SIZE
14	15	LIGHTING	1	2	LIGHTING	15	14
14	15	LIGHTING	3	4	LIGHTING	15	14
14	15	LIGHTING	5	6	LIGHTING	15	14
10	30	HOTWATER	7	8	RANGE	50	6
10	30	HOTWATER	9	10	RANGE	50	6
12	20	KIT. APPL	11	12	KIT. APPL	20	12
12	20	G.D-D.W.	13	14	WASHER	20	12
10	30	DRYER	15	16	AIR HANDLER	15	14
10	30	DRYER	17	18	AIR HANDLER	15	14
6	50	OUTDOOR A/C	19	20	AIR HANDLER	15	14
6	50	OUTDOOR A/C	21	22	AIR HANDLER	15	14
15	20	BATH GFI'S	23	24	BATH GFI'S	15	20
15	20	BATH GFI'S	25	26	LAUNDRY	20	12
6	50	OUTDOOR A/C	27	28	GARAGE	20	12
6	50	OUTDOOR A/C	29	30			

400 AMP ONE LINE DIAGRAM



ALL ELECTRICAL EQUIPMENT SHALL BE RATED FOR 22,000 AMPS FAULT CURRENT OR THE SERVICE ENTRANCE RATING SHALL BE RATED FOR 22,000 AMPS FAULT CURRENT AND THE ELECTRICAL EQUIPMENT SHALL BE MARKED "SERIES RATED" (PER 1993 NEC ARTICLE 10-22 AND 240-83(c) BY THE MANUFACTURER WITH THE CATALOGUE OR MODEL NUMBERS LISTED IN THE SERVICE EQUIPMENT.

SUBPANELS SHALL NOT BE LOCATED IN CLOTHES CLOSETS OR IN BATHROOMS. IF A SUBPANEL IS LOCATED AT A SEPERATE BUILDING A GROUNDING ELECTRODE SYSTEM (PER 1993 NEC ARTICLE 250 PART IV) AND SERVICE DISCONNECTING MEANS (PER 1993 NEC ARTICLE 230-70)

MAIN ELECTRICAL PLAN

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

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JOB NAME: STREET OF DREAMS

2610 E. LOVEBIRD LANE

DATE: 11.06.12

1 REVISED
2 REVISED
3 REVISED

IRC