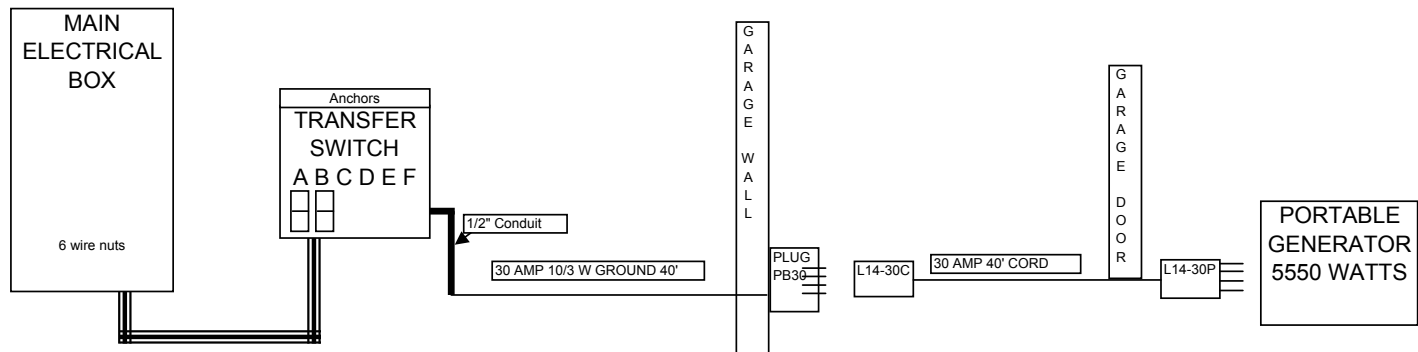


Main electrical box		Amps			
		Main Breaker			
		150			
1	Panel receptacle (Temp moved to #9)	20	20	Kitchen Refrigerator	2
3	Basement Lights	20	20	Kitchen countertop right hand side	4
5	#3 Bedroom (Small bedroom) lights and plugs	20	20	#2 Bedroom (front bedroom) lights and plugs	6
7	Master bedroom and master bath lights, plugs and smoke alarms	20	20	Garage lights and door opener	8
9	Dining room plugs and island plugs (Temp panel receptacle)	20	20	Garage receptacle	10
11	Living room light and plugs	20	20	Clothes washer area outlet	12
13	Kitchen countertop left hand side	20	20	Microwave	14
15	Entrance lights and outdoor plug	20	30	Dryer outlet (220)	16
17	Kitchen and dining room lights	20	30	Dryer outlet (220)	18
19	Family room in basement	20	50	Range outlet (220)	20
21	Garbage disposal	20	50	Range outlet (220)	22
23	Dishwasher	20	20	Sump pump outlet (water softener)	24
25	Open		20	Furnace	26
27	Open		30	Air conditioning (220)	28
29	Open		30	Air conditioning (220)	30
Transfer Switch		Run	Surge	Load per	
		watts	watts	Phase	
A	Dining room plugs and island plugs (Plug in lights & Pannel receptacle)	300			
B	Microwave	1000			
C	Kitchen Refrigerator	800	1600	2100	
D	Garage receptacle Plug in one- Refrigerator, Door opener, Sump pump	800	1600		
E	Master bedroom and master bath lights, plugs and smoke alarms	300			
F	Furnace	800	1300	1900	
Total run watts		4000			
Largest surge		1600			
Total Generator requirement		5600			

### Standby power configuration



### Costs

Transfer Switch Reliance 31406C	\$198
1/2 conduit and fittings Reliance PB30	\$10
Wire 10/3 W/ground 50'	\$70
Plug L1430-P Male	\$21
Plug L1430-C Female	\$43
40' 10/4 SHOOW cord @ \$1.42 / ft	\$57
Wire nuts, masonary anchors, masonary bit, wire stapels	\$15
Generator TROY-BILT 030345 5550 watts	\$744
<b>Total project cost</b>	<b>\$1,158</b>