

SCHEDULE OF ENERGY METER READINGS					
ITEM DESCRIPTION METER NUMBER(S)					
Α	TOTAL BUILDING LOAD	1			
В	TOTAL KITCHEN LOADS	13			
С	TOTAL MECHANICAL LOADS	3+6+7+8+9+10+12+15+17+18+20+22+25+27+28			
D	TOTAL LIGHTING LOADS	2 + 4 + 14 + 16 + 26			
E	TOTAL PLUG LOADS	5 + 11 + 19 + 21 + 23 + 24 + 29			
F	TOTAL GENERATOR LOADS	4+5			

SCHEDULE OF TRANSFORMERS							
TRANSFORMER		LOCATION	PRIMARY SECONDARY TAP	GROUNDING ELECTRODE	EQUIPMENT	NOTES	
DESIG.	KVA		FEEDER	WIRING & CONDUIT (NOTE A)	CONDUCTOR	SERVED	
TDPPB	150	ELECTRIC 159	SB-3	2 SETS: (4 #350AL + #3/0AL G - 3"C)	#3/0AL	PANEL DPPB	1
TEP1	15	ELECTRIC 159	E1-13	4 #8 + #8G - 1"C	#8	PANEL EP1	1
TSP1	75	ELECTRIC 159	S1-25	4#350AL +#1/0AL G - 3"C)	#1/0AL	PANEL SP1	1
TDPP1B	150	ELEC. CLOSET 139	DP1B-3	2 SETS: (4 #350AL + #3/0AL G - 3"C)	#3/0AL	PANEL DPP1B	1
TMPC	75	ELECTRIC CC112	DPC-3	4 #250AL + #1/0AL G - 2-1/2"C)	#1/0AL	PANEL MPC	1

TRANSFORMER GENERAL NOTES: A. TRANSFORMER SECONDARY TAP: CONDUCTORS INDICATED REFLECT PHASE, NEUTRAL (IN WYE-CONFIGURATION), AND SUPPLY-SIDE BONDING JUMPER (SSBJ) IN ACCORDANCE WITH NEC ARTICLES 450, 240.21, AND 250.30. B. TRANSFORMER SHALL HAVE 480-VOLT, 3-PHASE, DELTA PRIMARY AND 120/208-VOLT, 3-PHASE, WYE SECONDARY.

TRANSFORMER SPECIFIC NOTES: 1. PROVIDE ON 4" HIGH HOUSEKEEPING PAD.

SCHEDULE OF ENERGY METERS							
NUMBER	LOAD(S) TO BE MEASURED	CT VOLTAGE	CT RATING (AMPS)	METER SERIES	NOTES		
1	SWITCHBOARD SB	480 V -3Ø	2000	8000	1		
2	PANEL LB	480V-3Ø	100	8000	1		
3	PANEL MB	480V-3Ø	100	8000	1		
4	PANEL E1 (VIA ATS-1)	480V-3Ø	100	8000	1		
5	PANEL S1 (VIA ATS-2)	480V-3Ø	200	8000	1		
6	DOAS-2	480V-3Ø	200	8000	2		
7	DOAS-3	480V-3Ø	200	8000	2		
8	DWH-1	480V-3Ø	100	8000	2		
9	DWH-2	480V-3Ø	100	8000	2		
10	RHPU-3	480V-3Ø	100	8000	2		
11	PANEL PB	208V-3Ø	400	4100	3		
12	PANEL MPB	208V-3Ø	100	4100	3		
13	PANEL K	208V-3Ø	200	4100	3		
14	PANEL L1B	480V-3Ø	100	8000	4		
15	PANEL M1B	480V-3Ø	100	8000	4		
16	PANEL L2B	480 V -3Ø	100	8000	4		
17	PANEL M2B	480 V -3Ø	400	8000	4		
18	PANEL MP1B	208V-3Ø	100	8000	5		
19	PANEL P1B	208V-3Ø	200	8000	5		
20	PANEL MP1A	208V-3Ø	100	8000	5		
21	PANEL P1A	208V-3Ø	200	8000	5		
22	PANEL MP2B	208V-3Ø	200	8000	5		
23	PANEL P2B	208V-3Ø	200	8000	5		
24	PANEL P2A	208V-3Ø	200	8000	5		
25	PANEL MP2A	208 V -3Ø	100	8000	5		
26	PANEL LC	480V-3Ø	100	4100	6		
27	PANEL MC	480V-3Ø	200	4100	6		
28	PANEL MPC	208V-3Ø	400	4100	7		
29	PANEL PC	208V-3Ø	100	4100	7		

LOCATE METER NEAR PANEL MPC. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL MPC.

© 2021 James Posey Associates, Inc.

4. LOCATE METER NEAR DISTRIBUTION PANEL DP1B. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DP1B.

5. LOCATE METER NEAR DISTRIBUTION PANEL DPP1B. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPP1B. 6. LOCATE METER NEAR DISTRIBUTION PANEL DPC. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPC.

SCHEDULE OF ENERGY METERS						
NUMBER	LOAD(S) TO BE MEASURED	CT VOLTAGE	CT RATING (AMPS)	METER SERIES	NOTES	
1	SWITCHBOARD SB	480 V -3Ø	2000	8000	1	
2	PANEL LB	480 V -3Ø	100	8000	1	
3	PANEL MB	480 V -3Ø	100	8000	1	
4	PANEL E1 (VIA ATS-1)	480 V -3Ø	100	8000	1	
5	PANEL S1 (VIA ATS-2)	480 V -3Ø	200	8000	1	
6	DOAS-2	480 V -3Ø	200	8000	2	
7	DOAS-3	480 V -3Ø	200	8000	2	
8	DWH-1	480V-3Ø	100	8000	2	
9	DWH-2	480V-3Ø	100	8000	2	
10	RHPU-3	480V-3Ø	100	8000	2	
11	PANEL PB	208V-3Ø	400	4100	3	
12	PANEL MPB	208V-3Ø	100	4100	3	
13	PANEL K	208 V -3Ø	200	4100	3	
14	PANEL L1B	480 V -3Ø	100	8000	4	
15	PANEL M1B	480 V -3Ø	100	8000	4	
16	PANEL L2B	480 V -3Ø	100	8000	4	
17	PANEL M2B	480V-3Ø	400	8000	4	
18	PANEL MP1B	208 V -3Ø	100	8000	5	
19	PANEL P1B	208V-3Ø	200	8000	5	
20	PANEL MP1A	208 V -3Ø	100	8000	5	
21	PANEL P1A	208 V -3Ø	200	8000	5	
22	PANEL MP2B	208 V -3Ø	200	8000	5	
23	PANEL P2B	208 V -3Ø	200	8000	5	
24	PANEL P2A	208 V -3Ø	200	8000	5	
25	PANEL MP2A	208 V -3Ø	100	8000	5	
26	PANEL LC	480 V -3Ø	100	4100	6	
27	PANEL MC	480 V -3Ø	200	4100	6	
28	PANEL MPC	208 V -3Ø	400	4100	7	
29	PANEL PC	208 V -3Ø	100	4100	7	

PROVIDE UNDER ADDITION ALTERNAT	E		
]		SECOND FLOOR
CURRENT CURRENT CURRENT CURRENT TRANSFORMERS TO DISTRIBUTION PANEL MPC PANEL DPC CURRENT TRANSFORMERS TO DISTRIBUTION PANEL DPC	TRANSFORMERS TO TRANSFORMERS T	CURRENT — CURREN	CURRENT — BUILDING LAN NETWORK SWITCHBOARD SB (TYPICAL OF 5) CAT-6 CABLING TO DATA OUTLET
SINGLE- METER UNIT SINGLE- METER UNIT SINGLE- METER UNIT SINGLE- METER UNIT SINGLE- METER UNIT SINGLE- METER UNIT SINGLE-	MULTI-METER UNIT UNIT	SINGLE- METER UNIT SINGLE- METER UNIT MULTI-METER UNIT MULTI-METER UNIT	MULTI-METER UNIT BULSE MODULE TYPICAL OF 2 ENERGY METER GATEWAY PULSE MODULE
3 MPC-37 4 DPC-4	3 DPP1B-9 4 DP1B-6	3 DPPB-4	4 SB-14 PB-37 FIRST FLOOR
L			

1 SERIAL PORT, RS-485 2-WIRE MODBUS/RTU COMMUNICATIONS CABLING IN 3/4" CONDUIT (NOT SHOWN ON PLANS). 2 120V POWER SUPPLY CONNECTION.

3 208V CONNECTION FOR POWER SUPPLY CONNECTION AND POTENTIAL TRANSFORMERS.

4 | 480V CONNECTION FOR POWER SUPPLY CONNECTION AND POTENTIAL TRANSFORMERS. 5 COMMUNICATIONS WIRING, PER MANUFACTURER'S REQUIREMENTS, IN 3/4" CONDUIT.

6 2#18AWG IN 3/4" CONDUIT TO WATER/GAS METER LOCATION. COORDINATE WATER/GAS METER LOCATION WITH DIVISION 22/23 CONTRACTOR.

SCALE: NOT TO SCALE

POINT OF CONNECTION TO SOLAR PV EQUIPMENT SHALL BE LOCATED AT THE OPPOSITE END OF BUSBAR FROM THE 2000A MAIN SERVICE DISCONNECT. 125 PERCENT OF THE SOLAR PV INVERTER(S) OUTPUT CIRCUIT CURRENT SHALL NOT ÉXCEED 400A.

PROVIDE YELLOW PLACARD

MECHANICALLY FASTEN SIGN TO FRONT MAIN SECTION OF SWITCHBOARD SB



EMERGENCY AND STANDBY POWER 150KW, 480 VOLT 3 PHASE NATURAL GAS GENERATOR LOCATED IN SERVICE AREA IMMEDIATELY OUTSIDE ELECTRICAL ROOM

MECHANICALLY FASTEN SIGN TO FRONT MAIN SECTION OF SWITCHBOARD SB

WOODLIN ELEMENTARY 2101 LUZERNE AVE

A. FEEDER SIZES #2 THROUGH #750KCMIL ARE BASED ON ALUMINUM CONDUCTORS. PROVIDE COPPER CONDUCTORS UNDER ALTERNATE. B. GROUND CONDUCTORS SMALLER THAN #2 SHALL BE COPPER. C. REFER TO TRANSFORMER SCHEDULE ON THIS DRAWING FOR ADDITIONAL

GENERAL NOTES:

TRANSFORMERS INDICATED.

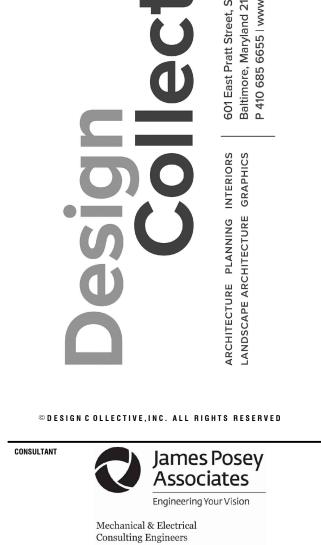
WIRE AND CONDUIT OF PRIMARY AND SECONDARY FEEDERS FOR

TYPE 1 ENCLOSURE. PROVIDE WITH 200A CURRENT-LIMITING FUSES. (19) REFER TO DETAIL 1/E503 FOR GROUNDING CONNECTIONS AT SWITCHBOARD.

D. REFER TO DETAIL 4/E503 FOR TRANSFORMER GROUNDING.

SILVER SPRING MD 20910 INFORMATION ON TRANSFORMERS INDICATED AND FOR NUMBER AND SIZE OF DC Project No. 219-20-00 Owner Project No. XXXX OWNER / DEVELOPER

OADS. ALL	NUMBER ISSUED FOR 1 SCHEMATIC DESIGN	10/06/20
	2 35% DESIGN	02/22/21
ATOR	DEVELOPEMENT	
MAKE R	3 65% CON. DOCUMENTS	06/22/21
	4 BID SET	10/01/21
AS PER TOR 3.		
SURE,		
OR		
READ		
NCY		
.OAD		
		
)8 I		
4		
ID-BY		



11155 Red Run Boulevard, Suite 310 Baltimore, Maryland 21117

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 24861,

POWER DIAGRAMS

Expiration date: 02-24-2022.

SHEET NUMBER

tel 410-265-6100 jamesposey.com

KEY PLAN