PANEL OSDPG

MAIN: 100 A MCB | VOLTAGE: 480Y/ 277 3 PH 4 W
A/C: 22,000 | MOUNTING: SURFACE | NOTE: 1
LOCATION: MAIN ELECTRICAL ROOM | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	PANEL OSLP1	0.94			3	60	3	60	6.48			PANEL OSRDPG	2
3	**		0.66		**	**	**	**		6.96		**	4
5	**			0.76	**	**	**	**			8.52	**	6
7	PANEL OSLP2	0.47			3	60	1	20				SPACE	8
9	**		0.00		**	**	1	20				SPACE	10
11	**			0.00	**	**	1	20				SPACE	12
13	SPACE				1	20	1	20				SPACE	14
15	SPACE				1	20	1	20				SPACE	16
17	SPACE				1	20	1	20				SPACE	18
		1.41	0.66	0.76	SUB-TOTALS		6.48	6.96	8.52				

CONNECTED LOAD:
A: 7.99 KVA = 28.47 A
B: 7.62 KVA = 27.51 A
C: 9.28 KVA = 33.50 A
24.79 TOTAL CONNECTED LOAD (KVA)

NOTE:
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES

PANEL OSLP1

MAIN: 50 A MCB | VOLTAGE: 480Y/ 277 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE: 1
LOCATION: ELECTRIC ROOM 114 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	LIGHTING - ADMIN	0.94			1	20	1	20				SPARE	2
3	LIGHTING - COMMONS ADMIN		0.66		1	20	1	20				SPARE	4
5	LIGHTING - CYBER			0.76	1	20	1	20				SPARE	6
7	SPARE				1	20	1	20				SPARE	8
9	SPARE				1	20	1	20				SPARE	10
11	SPARE				1	20	1	20				SPARE	12
13	SPARE				1	20	1	20				SPARE	14
15	SPARE				1	20	1	20				SPACE	16
17	SPARE				1	20	1	20				SPACE	18
		0.94	0.66	0.76	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 0.94 KVA = 3.39 A
B: 0.66 KVA = 2.38 A
C: 0.76 KVA = 2.74 A
2.36 TOTAL CONNECTED LOAD (KVA)

NOTE:
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES

PANEL OSLP2

MAIN: 50 A MCB | VOLTAGE: 480Y/ 277 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE: 1, 2
LOCATION: ELECTRIC ROOM 215 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	LIGHTING	0.47			1	20	1	20				SPARE	2
3	SPARE				1	20	1	20				SPARE	4
5	SPARE				1	20	1	20				SPARE	6
7	SPACE				1	20	1	20				SPACE	8
9	SPACE				1	20	1	20				SPACE	10
11	SPACE				1	20	1	20				SPACE	12
13	SPACE				1	20	1	20				SPACE	14
15	SPACE				1	20	1	20				SPACE	16
17	SPACE				1	20	1	20				SPACE	18
		0.47	0.00	0.00	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 0.47 KVA = 1.68 A
B: 0.00 KVA = 0.00 A
C: 0.00 KVA = 0.00 A
0.47 TOTAL CONNECTED LOAD (KVA)

NOTE:
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES

PANEL OSRDPG

MAIN: 150 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 22,000 | MOUNTING: SURFACE | NOTE: 1, 2
LOCATION: MAIN ELECTRICAL ROOM | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	PANEL OSRP1A	3.24			3	60	3	60	0.36			PANEL OSRP2A	2
3	**		2.88		**	**	**	**		0.18		**	4
5	**			4.44	**	**	**	**			0.36	**	6
7	PANEL OSRP1B	0.90			3	60	3	60	0.54			PANEL OSRP2B	8
9	**		0.72		**	**	**	**		2.28		**	10
11	**			2.28	**	**	**	**			0.36	**	12
13	PANEL OSRP1C	1.44			3	60	1	20				SPACE	14
15	**		0.90		**	**	1	20				SPACE	16
17	**			1.08	**	**	1	20				SPACE	18
19	SPACE				1	20	1	20				SPACE	20
21	SPACE				1	20	1	20				SPACE	22
23	SPACE				1	20	1	20				SPACE	24
25	SPACE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		5.58	4.50	7.80	SUB-TOTALS		0.90	2.46	0.72				

CONNECTED LOAD:
A: 6.48 KVA = 54.00 A
B: 6.96 KVA = 58.00 A
C: 8.52 KVA = 71.00 A
21.96 TOTAL CONNECTED LOAD (KVA)

NOTE:
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES

PANEL OSRP1A

MAIN: 100 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE: 1, 2
LOCATION: ELECTRIC ROOM 120 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	REC - GP - 110	0.72			1	20	1	20	0.36			REC-IT-108	2
3	REC - GP - 109/111		0.36		1	20	1	20		0.36		REC-IT-108	4
5	UPS - 108			1.92	1	20	1	20			0.36	REC-IT-108	6
7	REC-CLASS 106	0.36			1	20	1	20	0.36			REC-IT-108	8
9	REC-CLASS 106		0.36		1	20	1	20		0.36		REC-CLASS 106	10
11	REC-CLASS 106			0.36	1	20	1	20			0.36	REC-CLASS 106	12
13	REC-CLASS 106	0.36			1	20	1	20	0.36			REC-CLASS 106	14
15	REC-CLASS 106		0.36		1	20	1	20		0.36		REC-CLASS 106	16
17	REC-CLASS 106			0.36	1	20	1	20			0.36	REC-CLASS 106	18
19	REC-CLASS 106	0.36			1	20	1	20	0.36			REC-CLASS 106	20
21	REC-CLASS 106		0.36		1	20	1	20		0.36		REC-CLASS 106	22
23	REC-CLASS 106 - TEACHER			0.36	1	20	1	20			0.36	REC-CLASS 106	24
25	SPARE				1	20	1	20				SPARE	26
27	SPARE				1	20	1	20				SPARE	28
29	SPARE				1	20	1	20				SPARE	30
31	SPARE				1	20	1	20				SPARE	32
33	SPARE				1	20	1	20				SPARE	34
35	SPARE				1	20	1	20				SPARE	36
37	SPACE				1	20	1	20				SPACE	38
39	SPACE				1	20	1	20				SPACE	40
41	SPACE				1	20	1	20				SPACE	42
		1.80	1.44	3.00	SUB-TOTALS		1.44	1.44	1.44				

CONNECTED LOAD:
A: 3.24 KVA = 27.00 A
B: 2.88 KVA = 24.00 A
C: 4.44 KVA = 37.00 A
10.56 TOTAL CONNECTED LOAD (KVA)

NOTE:

PANEL OSRP1B

MAIN: 60 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE:
LOCATION: RM 114 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	IT RACKS - 115	0.36			1	20	1	15				DSS 2	2
3	IT RACKS - 115		0.36		1	20	1	15				DSS 2	4
5	IT RACKS - 115			0.36	1	20	1	20				SPARE	6
7	RECEPTACLES 119	0.36			1	20	1	20				SPARE	8
9	RECEPTACLES 119		0.36		1	20	1	20				SPARE	10
11	UPS - 115			1.92	1	20	1	20				SPARE	12
13	REC - TV - 119	0.18			1	20	1	20				SPACE	14
15	SPARE				1	20	1	20				SPACE	16
17	SPARE				1	20	1	20				SPACE	18
19	SPARE				1	20	1	20				SPACE	20
21	SPARE				1	20	1	20				SPACE	22
23	SPARE				1	20	1	20				SPACE	24
25	SPARE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		0.90	0.72	2.28	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 0.90 KVA = 7.50 A
B: 0.72 KVA = 6.00 A
C: 2.28 KVA = 19.00 A
3.90 TOTAL CONNECTED LOAD (KVA)

NOTE:

PANEL OSRP1C

MAIN: 60 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE:
LOCATION: ELECTRIC ROOM 109 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	REC - OFFICE - 123	0.90			1	20	1	20	0.36			REC - GP - 121	2
3	REC - OFFICE - 124		0.72		1	20	1	20		0.18		REC-TV-CONFERENCE - 121	4
5	REC - CONF. TABLE - 122			0.36	1	20	1	20			0.72	REC - GP - 122	6
7	REC - TV - CONF. - 122	0.18			1	20	1	20				SPARE	8
9	SPARE				1	20	1	20				SPARE	10
11	SPARE				1	20	1	20				SPARE	12
13	SPARE				1	20	1	20				SPARE	14
15	SPARE				1	20	1	20				SPARE	16
17	SPARE				1	20	1	20				SPARE	18
19	SPARE				1	20	1	20				SPARE	20
21	SPACE				1	20	1	20				SPACE	22
23	SPACE				1	20	1	20				SPACE	24
25	SPACE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		1.08	0.72	0.36	SUB-TOTALS		0.36	0.18	0.72				

CONNECTED LOAD:
A: 1.44 KVA = 12.00 A
B: 0.90 KVA = 7.50 A
C: 1.08 KVA = 9.00 A
3.42 TOTAL CONNECTED LOAD (KVA)

NOTE:

PANEL OSRP2A

MAIN: 60 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE:
LOCATION: ELECTRIC ROOM 214 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	REC-GP-212	0.36			1	20	1	20				Night Control	2
3	REC-GP-212		0.18		1	20	1	20				SPARE	4
5	REC-PC-212			0.36	1	20	1	20				SPARE	6
7	SPARE				1	20	1	20				SPARE	8
9	SPARE				1	20	1	20				SPARE	10
11	SPARE				1	20	1	20				SPARE	12
13	SPACE				1	20	1	20				SPARE	14
15	SPACE				1	20	1	20				SPARE	16
17	SPACE				1	20	1	20				SPARE	18
19	SPACE				1	20	1	20				SPACE	20
21	SPACE				1	20	1	20				SPACE	22
23	SPACE				1	20	1	20				SPACE	24
25	SPACE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		0.36	0.18	0.36	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 0.36 KVA = 3.00 A
B: 0.18 KVA = 1.50 A
C: 0.36 KVA = 3.00 A
0.90 TOTAL CONNECTED LOAD (KVA)

NOTE:

PANEL OSRP2B

MAIN: 60 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE:
LOCATION: ELECTRIC ROOM 215 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	IT RECEPTACLE - RM 217	0.36			1	20	1	15				DSS 5	2
3	IT RECEPTACLE - RM 217		0.36		1	20	1	15				DSS 5	4
5	IT RECEPTACLE - RM 217			0.36	1	20	1	20				SPARE	6
7	REC-GP-RM 204	0.18			1	20	1	20				SPARE	8
9	UPS - RM 204		1.92		1	20	1	20				SPARE	10
11	SPARE				1	20	1	20				SPARE	12
13	SPARE				1	20	1	20				SPARE	14
15	SPARE				1	20	1	20				SPARE	16
17	SPARE				1	20	1	20				SPARE	18
19	SPACE				1	20	1	20				SPACE	20
21	SPACE				1	20	1	20				SPACE	22
23	SPACE				1	20	1	20				SPACE	24
25	SPACE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		0.54	2.28	0.36	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 0.54 KVA = 4.50 A
B: 2.28 KVA = 19.00 A
C: 0.36 KVA = 3.00 A
3.18 TOTAL CONNECTED LOAD (KVA)

NOTE:

PANEL OSMRP2C

MAIN: 60 A MCB | VOLTAGE: 208Y/ 120 3 PH 4 W
A/C: 10,000 | MOUNTING: SURFACE | NOTE:
LOCATION: ELECTRIC ROOM 222 | 100% RATED NEUTRAL BUS

CKT	EQUIPMENT SERVED	LOAD (KVA) A	B	C	BREAKER P	AMPS	BREAKER P	AMPS	LOAD (KVA) A	B	C	EQUIPMENT SERVED	CKT
1	DSSCU-3	1.35			2	15	1	20				SPARE	2
3	**		1.35		**	**	1	20				SPARE	4
5	DSSCU-5			1.35	2	15	1	20				SPARE	6
7	**	1.35			**	**	1	20				SPARE	8
9	DSSCU-2		1.35		2	15	1	20				SPARE	10
11	**			1.35	**	**	1	20				SPARE	12
13	DSSCU 7				1	15	1	20				SPACE	14
15	DSSCU 7				1	15	1	20				SPACE	16
17	SPACE				1	20	1	20				SPACE	18
19	SPACE				1	20	1	20				SPACE	20
21	SPACE				1	20	1	20				SPACE	22
23	SPACE				1	20	1	20				SPACE	24
25	SPACE				1	20	1	20				SPACE	26
27	SPACE				1	20	1	20				SPACE	28
29	SPACE				1	20	1	20				SPACE	30
		2.70	2.70	2.70	SUB-TOTALS		0.00	0.00	0.00				

CONNECTED LOAD:
A: 2.70 KVA = 22.53 A
B: 2.70 KVA = 22.53 A
C: 2.70 KVA = 22.53 A
6.11 TOTAL CONNECTED LOAD (KVA)

NOTE:
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES

PANEL OSDPG	PANEL OSLP1	PANEL OSLP2	PANEL OSRDPG
PANEL OSRP1A	PANEL OSRP1B	PANEL OSRP1C	PANEL OSRP2A
PANEL OSRP2B	PANEL OSMRP2C		

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SEAL:

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUM: EXP DATE:

PROJECT:

INNOVATIVE LEARNING CENTER

NEW MIDDLE SCHOOL

500 CHESTNUT AVE
TOWSON, MD 21204

PREPARED FOR:

LOYOLA BLAKEFIELD

500 CHESTNUT AVE
TOWSON, MD 21204

MARK	DATE	DESCRIPTION
1	12-06-2019	CONFORMED SET

PROJECT NO: 18-00386-001
DATE: AUGUST 30, 2019
SCALE: As indicated
DESIGNED BY: BKM
DRAWN BY: BKM
CHECKED BY: BKM

DRAWING TITLE:
PANEL SCHEDULES

SHEET NUMBER:
E504

BKM# 18044.01

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