PANELBOARD 2P1

LOCATION: KITCHEN
VOLTAGE: 208 Y / 120V 3PH 4W — MOUNTING: IN CABINET — TYPE: BRANCH CIRCUIT

BRANCH CIRCUIT CKT	LOAD DESCRIPTION	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	C (IN)	BRKR TRIP POLE	PHASE A	B	C	BRKR TRIP POLE	WIRE SIZE	C (IN)	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	BRANCH CIRCUIT LOAD DESCRIPTION	CKT
1	LNS 103 GENERAL RECEPTS		1.20						20/1				20/1				0.80					LNS 104 TEACHING WALL	2
3	LNS 103 TEACHING WALL		0.80						20/1				20/1				1.20					LNS 104 GENERAL RECEPTS	4
5	LNS 103 SPARE CIRCUIT								20/1				20/1									LNS 104 SPARE CIRCUIT	6
7	LNS 105 GENERAL RECEPTS		1.20						20/1				20/1									LNS L06 SPARE CIRCUIT	8
9	LNS 105 SPARE CIRCUIT								20/1				20/1				0.80					LNS 106 TEACHING WALL	10
11	LNS 105 TEACHING WALL		0.80						20/1				20/1				1.20					LNS 106 GENERAL RECEPTS	12
13	SPECIAL ED 109 SPARE								20/1				20/1				0.40					CAFETERIAL 108	14
15	SPEC ED 109 TEACHING WALL		0.80						20/1				20/1				0.40					CAFETERIAL 108	16
17	SPEC ED109; GEN RECEPTS		1.20						20/1				20/1									CAFETERIAL 108	18
19	RECEPTS OFFICE 101		0.60						20/1				20/1				0.40					RECEPTS CAFETERIA 110	20
21	RECEPTS OFFICE 102		0.60						20/1				20/1							0.70		WATER COOLER 110	22
23	LIGHTING	0.60							20/1				20/1				0.40					RECEPTS CAFETERIA 110	24
25	LIGHTING -CORRIDOR	0.52							20/1				20/1				0.40					RECEPTS CAFETERIA 110	26
27	LIGHTING-	0.60							20/1				20/1				0.40					RECEPTS CAFETERIA 110	28
29	LIGHING CAFETERIA	0.70							20/1				20/1									RECEPTS CAFETERIA SPARE	30
31									20/1				20/1			1.00	0.00					GTD EXTERIOR RECEPTS	32
33									20/1				20/1				0.80					CORRIDOR RECEPTS	34
35									20/1				20/1							0.70		ELECTRIC WATER COOLER	36
37									20/1				20/1										38
39									20/1				20/1										40
41									20/1				20/1										42

CONNECTED LOAD	KVA	AMPS
PHASE A	5.5	54
PHASE B	7.1	59
PHASE C	5.6	47
TOTAL	19.2	53

AMPS MIN. INTERRUPTING CAPACITY (RMS SYM. AMPS)

	CONNECTED (KVA)	DEMAND (KVA)
LIGHTING/CONTINUOUS	2.4	3.0
RECEPTACLES	15.4	12.7
MOTORS	1.4	2.1
HVAC	0.0	0.0
OTHER	0.0	0.0
KITCHEN	0.0	0.0
TOTAL DEMAND LOAD		17.8 KVA
DEMAND AMPS		49 AMPS

LARGEST 2.7 MOTOR (KVA)

NOTES:
A. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN DEVICES. PROVIDE SEPARATE NEUTRAL FOR EACH DEVICE.
B. LOADS SHOWN FOR PREFERRED SOURCE ONLY FOR CLARITY, PANELS C AND D SUPPORT DUAL-CORDED EQUIPMENT.

PANELBOARD 2K

LOCATION: KITCHEN
VOLTAGE: 208 Y / 120V 3PH 4W — MOUNTING: IN CABINET — TYPE: BRANCH CIRCUIT

BRANCH CIRCUIT CKT	LOAD DESCRIPTION	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	WIRE SIZE	C (IN)	BRKR TRIP POLE	PHASE A	B	C	BRKR TRIP POLE	WIRE SIZE	C (IN)	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	BRANCH CIRCUIT LOAD DESCRIPTION	CKT
1	WARMING CABINET									20/2													SPACE	2
3																							SPACE	4
5	REFRIGERATOR									20/1													SPACE	6
7	FREEZER									20/1													SPACE	8
9	COLD COUNTER																						SPACE	10
11	HEATED COUNTER									35/2													SPACE	12
13																							SPACE	14
15	ICE MACHINE									20/1													SPACE	16
17	MILK COOLER									20/1													SPACE	18
19	CASHIER									20/1													SPACE	20
21	KITCHEN RECEPTACLES									20/1													SPACE	22
23	PROVISIONS																						SPACE	24
25	PROVISIONS																						PROVISIONS	26
27	PROVISIONS																						PROVISIONS	28
29	PROVISIONS																						PROVISIONS	30
31	PROVISIONS																						PROVISIONS	32
33	PROVISIONS																						PROVISIONS	34
35	PROVISIONS																						PROVISIONS	36
37	PROVISIONS																						PROVISIONS	38
39	PROVISIONS																						PROVISIONS	40
41	PROVISIONS																						PROVISIONS	42

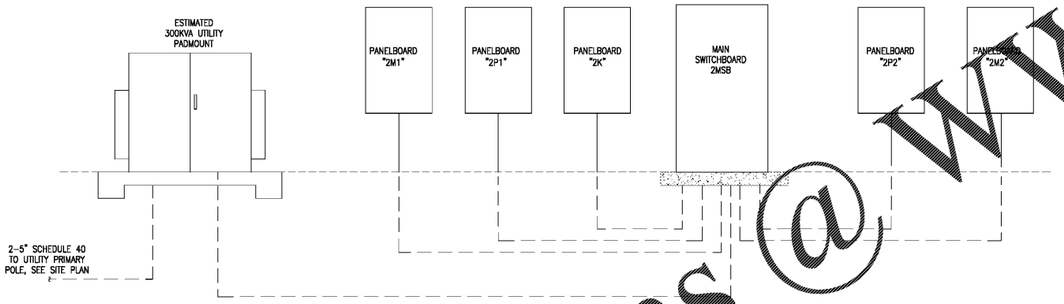
CONNECTED LOAD	KVA	AMPS
PHASE A	0.0	0
PHASE B	0.0	0
PHASE C	0.0	0
TOTAL	0.0	0

AMPS MIN. INTERRUPTING CAPACITY (RMS SYM. AMPS)

	CONNECTED (KVA)	DEMAND (KVA)
LIGHTING/CONTINUOUS	0.0	0.0
RECEPTACLES	0.0	0.0
MOTORS	0.0	0.7
HVAC	0.0	0.0
OTHER	0.0	0.0
KITCHEN	0.0	0.0
TOTAL DEMAND LOAD		0.7 KVA
DEMAND AMPS		2 AMPS

LARGEST 2.7 MOTOR (KVA)

NOTES:
A. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN DEVICES. PROVIDE SEPARATE NEUTRAL FOR EACH DEVICE.
B. LOADS SHOWN FOR PREFERRED SOURCE ONLY FOR CLARITY, PANELS C AND D SUPPORT DUAL-CORDED EQUIPMENT.



PANELBOARD INFORMATION SCHEDULE

MARK	DESCRIPTION	TYPE	MOUNTING	VOLTAGE	Ø	WIRE	MAIN	SERVICE RATED	AVAILABLE SCA**	kAIC RATING**	Ø BUS RATING	N BUS RATING	CB TYPE	FEEDER CONDUCTORS	FEEDER GROUND	CONDUIT	INTEGRAL TVSS
2MSD	MAIN SERVICE SWITCHBOARD	NEMA 1	SURFACE	208/3	3	3	1000	YES	**	**	1000	1000	BOLT-ON	3 RUNS 3#500	#2/0	4"C	N
2M1	MECHANICAL POWER PANEL	NEMA 1	SURFACE	208/3	3	3	MLO	NO	**	**	400	400	BOLT-ON	3#500	#3	4"C	N
2M2	MECHANICAL POWER PANEL	NEMA 1	SURFACE	208/3	3	4	MLO	NO	**	**	400	400	BOLT-ON	4#500	#3	4"C	N
2P1	RECEPTACLE AND LIGHTING	NEMA 1	SURFACE	208/3	3	4	MLO	NO	**	**	225	225	BOLT-ON	4#4/0	#4	2 1/2"C	N
2P2	RECEPTACLE AND LIGHTING	NEMA 1	SURFACE	208/3	3	4	MLO	NO	**	**	225	225	BOLT-ON	4#4/0	#4	2 1/2"C	N
2K	KITCHEN PANELBOARD	NEMA 1	SURFACE	208/3	3	4	150	NO	**	**	100	150	BOLT-ON	4#1/0	#6	2"C	N
NOTES																	

ALL WIRE COPPER, INCLUDING NEUTRAL AND GROUND.
ALL PANELBOARD CABINETS SHALL BE DOOR IN DOOR CONSTRUCTION.
MINIMUM EQUIPMENT RATING. ALL EQUIPMENT SHALL BE FULLY RATED. SERIES RATINGS SHALL NOT BE ALLOWED.
** AVAILABLE RMS SYMMETRICAL FAULT CURRENT IN kA AT PANEL.
FEEDERS MAY BEINSTALLED WITH EQUIVALENT COPPER OR ALUMINUM CONDUCTORS.

PANELBOARD 2P2

LOCATION: KITCHEN
VOLTAGE: 208 Y / 120V 3PH 4W — MOUNTING: IN CABINET — TYPE: BRANCH CIRCUIT

BRANCH CIRCUIT CKT	LOAD DESCRIPTION	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	C (IN)	BRKR TRIP POLE	PHASE A	B	C	BRKR TRIP POLE	WIRE SIZE	C (IN)	LOAD (KVA) LTG	REC	MTR	HVC	OTH	KIT	BRANCH CIRCUIT LOAD DESCRIPTION	CKT
1	K4-119 GENERAL RECEPTS		0.60						20/1				20/1									K3-114 SPARE CIRCUIT	2
3	K4-119 TEACHING WALL		0.60						20/1				20/1				1.20					K3-114 GENERAL RECEPTS	4
5	K4-119 SPARE CIRCUIT								20/1				20/1				0.60					K3-116 TEACHING WALL	6
7	K5-121 GENWRAL RECEPTS		1.20						20/1				20/1				1.00					K4-116 GENERAL RECEPTS	8
9	K-5-121 SPARE CIRCUIT								20/1				20/1									K4-116 SPARE CIRCUIT	10
11	K5-121 TEACHING WALL		0.60						20/1				20/1				0.60					K4-116 TEACHING WALL	12
13	K-5-123 SPARE CIRCUIT								20/1				20/1				1.20					K4-118 GENERAL RECEPTS	14
15	K5-123 GENERALRECEPTS		1.20						20/1				20/1				0.60					K4-118 TEACHING WALL	16
17	K5-123 TEACHING WALL		0.60						20/1				20/1									K4-118 SPARE CIRCUIT	18
19	K5-125 GENERAL RECEPTS		1.40						20/1				20/1									K4-120 SPARE CIRCUIT	20
21	K5-125 TEACHLG WALL		0.60						20/1				20/1				0.20					K4-120 GENERAL RECEPTS	22
23	K5-125 SARE CIRCUIT								20/1				20/1				0.60					K4-120 TEACHING WALL	24
25	K5-127 GENERAL RECEPTS		1.20						20/1				20/1				1.20					K4-122 GENERAL RECEPTS	26
27	K5-127 SPARRE								20/1				20/1									K4-122- SPARE CIRCUIT	28
29	K5-127 TEACHING WALL		0.60						20/1				20/1				0.60					K4-122- TEACHING WALL	30
31	LIGHTING								20/1				20/1				1.20					K4-124 GENERAL CIRCUITS	32
33	LIGHTING								20/1				20/1				0.60					K4-124 TEACHING WALL	34
35	LIGHTING								20/1				20/1									K4-124 SPARE CIRCUIT	36
37	LIGHTING								20/1				20/1				1.00					RECEPTS CONFERENCE 117	38
39	LIGHTING								20/1				20/1				1.00					RECEPTS NURSE 115	40
41	LIGHTING								20/1				20/1							0.70		ELECTRIC WATER COOLER	42
43	FIRE ALARM CONTROL PANEL					0.20			20/1				20/1				0.40					RECEPTACLES CONNECTOR	44
45	FIRE ALARM CONTROL PANEL					0.20			20/1				20/1										46
47									20/1				20/1										48
49									20/1				20/1										50
51									20/1				20/1										52
53									20/1				20/1										54
	PANEL	0.00						SUBFED A	X	X			X	SUBFED A	X							PANEL	
								SUBFED B	X	X			X	SUBFED B	X								
								SUBFED C	X	X			X	SUBFED C	X								

CONNECTED LOAD	KVA	AMPS
PHASE A	8.0	67
PHASE B	5.0	42
PHASE C	5.6	47
TOTAL	18.6	52

AMPS MIN. INTERRUPTING CAPACITY (RMS SYM. AMPS)

	CONNECTED (KVA)	DEMAND (KVA)
LIGHTING/CONTINUOUS	0.0	0.0
RECEPTACLES	23.0	16.5
MOTORS	0.7	1.4
HVAC	0.0	0.0
OTHER	0.4	0.4
KITCHEN	0.0	0.0
TOTAL DEMAND LOAD		18.3 KVA
DEMAND AMPS		51 AMPS

LARGEST 2.7 MOTOR (KVA)

NOTES:
A. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN DEVICES. PROVIDE SEPARATE NEUTRAL FOR EACH DEVICE.
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Client
ALLENDALE-FAIRFAX COUNTY SCHOOL DISTRICT

Project
ALLENDALE PRIMARY SCHOOL

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E-402

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