ABBREVIATIONS: (SOME MAY NOT BE USED)

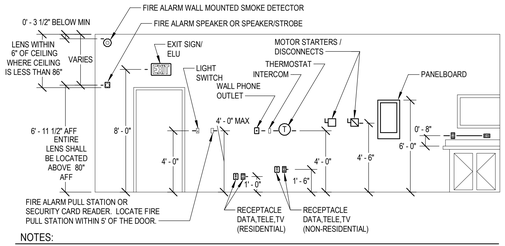
A	AMP	FT	FEET	PH	PHASE
AC	ABOVE COUNTER	FTL	FEED-THRU LUGS	PIV	POST INDICATING VALVE
ACC	AIR COOLED CONDENSING UNIT	FVNR	FULL VOLTAGE NON-REVERSING	POE	POWER OVER ETHERNET
ACP	ACCESS CONTROL PANEL	G	GROUND	PR	PAIR
AFCI	ARC FAULT CIRCUIT INTERRUPTER	GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
AFF	ABOVE FINISHED FLOOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	RAF	RETURN AIR FAN
AFG	ABOVE FINISHED GRADE	GPM	GALLONS PER MINUTE	RECEPT	RECEPTACLE
AHU	AIR HANDLING UNIT	H	HEIGHT	RVCC	REMOTE VOICE COMMAND CENTER
AWG	AMERICAN WIRE GAGE	HC	HANDICAP ACCESSIBLE	REL	RELOCATE
BFG	BELOW FINISHED GRADE	HH	HAND HOLE	REM	REMOVE
BLDG	BUILDING	HOA	HAND-OFF-AUTO SWITCH	REP	REPLACE
BTU	BRITISH THERMAL UNITS	HP	HORSEPOWER	RGS	RIGID GALVANIZED STEEL
C	CONDUIT	HVAC	HEATING, VENTILATION AND/OR AIR CONDITIONING	RPM	REVOLUTIONS PER MINUTE
CAT	CATEGORY	IG	ISOLATED GROUND	SAF	SUPPLY AIR FAN
CB	CIRCUIT BREAKER	IN	INCHES	SCH	SCHEDULE
CFM	CUBIC FEET PER MINUTE	INT	INTERNAL	SER	SERVICE ENTRANCE RATED
CKT	CIRCUIT	IT	INFORMATION TECHNOLOGIES	SF	SQUARE FOOT
COMM	COMMUNICATION	JB	JUNCTION BOX	SFL	SUB-FEED LUGS
CONT.	CONTINUED	K	KILO	SH	SHIELDED
CT	CURRENT TRANSFORMER	KVA	KILO-VOLT AMPERE	SM	SINGLE MODE FIBER OPTIC CABLE
CU	COPPER	KW	KILOWATT	SPD	SURGE PROTECTION DEVICE
CUH	CABINET UNIT HEATER	LBS	POUNDS	SR	SURFACE RACEWAY
CVT	CONTROL VOLTAGE TRANSFORMER	LV	LOW VOLTAGE	SWGR	SWITCHGEAR
DDC	DIRECT DIGITAL CONTROL	MAX	MAXIMUM	TBB	TELEPHONE BACKBOARD
DLC	DESIGN LIGHTS CONSORTIUM	MC	METAL CLAD CABLE	TSP	TWISTED SHIELDED PAIR
DSP	GARBAGE DISPOSAL	MCB	MAIN CIRCUIT BREAKER	TW	TWISTED
DW	DISHWASHER	MDP	MAIN DISTRIBUTION PANEL	TYP	TYPICAL
DWG	DRAWING	MH	MOUNTING HEIGHT	UG	UNDERGROUND
EC	ELECTRICAL CONTRACTOR	MIN	MINIMUM	UGE	UNDERGROUND ELECTRIC
ECB	ENCLOSED CIRCUIT BREAKER	MLO	MAIN LUGS ONLY	UGT	UNDERGROUND TELECOMMUNICATION
EM	EMERGENCY	MM	MULTIMODE FIBER OPTIC CABLE	UH	UNIT HEATER
EMT	ELECTRICAL METALLIC TUBING	MS	MOTOR STARTING	UON	UNLESS OTHERWISE NOTED
ELU	EMERGENCY LIGHTING UNIT	MTG	MOUNTING	UPS	UNINTERRUPTIBLE POWER SUPPLY
ES	ELECTRIC STRIKE	NEC	NATIONAL ELECTRIC CODE	UTP	UNSHIELDED TWISTED PAIR
EXR	EXISTING TO REMAIN	NL	NIGHT LIGHT	V	VOLT
FA	FIRE ALARM	NO/NC	NORMALLY OPEN/NORMALLY CLOSED	W	WATT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	OEM	ORIGINAL EQUIPMENT MANUFACTURER	WH	WATER HEATER
FACP	FIRE ALARM CONTROL PANEL	OL'S	THERMAL OVERLOAD UNITS	W/	WITH
FTC	FIBER OPTIC CABLE CROSS CONNECT CABINET	P	POLE	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	PC	PHOTOCELL	XFMR	TRANSFORMER
FLR	FLOOR	PE	PHOTO EYE		

SYMBOLS LEGEND:

- RECESSED PANEL
- SURFACE MOUNTED PANEL
- (J) OR [J] JUNCTION BOX
- X-Z, Y — HOME RUN IN ITS OWN CONDUIT TO PANEL. 2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED. PROVIDE SEPARATE GROUND AND NEUTRAL FOR EACH BRANCH CIRCUIT.
  'X'-INDICATES PANEL
  'Z, Y'-INDICATES CIRCUIT NUMBERS
- X-Z, Y / VVA/#P — HOME RUN IN ITS OWN CONDUIT TO PANEL. 2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED. PROVIDE SEPARATE GROUND AND NEUTRAL FOR EACH BRANCH CIRCUIT.
  'X'-INDICATES PANEL
  'Z, Y'-INDICATES CIRCUIT NUMBERS
  PROVIDE BREAKER IN INDICATED PANEL WHERE
  'VV' INDICATES TRIP RATING IN AMPS
  '#' INDICATES NUMBER OF POLES
- X-Z, Y — CIRCUIT CONTINUATION WITH 'Y' INDICATING DEVICE OR AREA DESCRIPTION
  'X'-INDICATES PANEL
  'Z, Y'-INDICATES CIRCUIT NUMBERS
- CIRCUIT CONSISTING OF GROUND, NEUTRAL AND PHASE CONDUCTORS. SHORT SOLID LINES INDICATE PHASE CONDUCTORS. A LONG SOLID LINE INDICATES NEUTRAL. A LONG DASHED LINE INDICATES AN EQUIPMENT GROUND. PROVIDE A SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR IN ALL NEW CIRCUITS
- LINE TYPE SHOWING CONTROL WIRING
- CONNECTION POINT
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- DUPLEX RECEPTACLE,
  'GFI'-INDICATES GROUND FAULT CIRCUIT INTERRUPTER
  'AFI'-INDICATES ARC FAULT CIRCUIT INTERRUPTER
  'WP'-WEATHER-PROOF DEVICE WITH WEATHER PROOF WHILE IN USE COVER
  'AC'-INDICATES ABOVE COUNTER
  'UC'-INDICATES UNDER COUNTER
- NEMA 1 NON-FUSED DISCONNECT UON
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
- NEMA 1 FUSED DISCONNECT UON
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
  'ZZ'- FUSE SIZE
- COMBINATION MOTOR STARTER, SIZE AS INDICATED
  'XX'- INDICATES DISCONNECT SIZE
  'Y'- NUMBER OF POLES
  'ZZ'- FUSE SIZE
  'NF'- NON-FUSED
- MOTOR STARTER, SIZE AS INDICATED
- VFD — VARIABLE FREQUENCY DRIVE. HP AS INDICATED
- VFD — COMBINATION NON-FUSED DISCONNECT VARIABLE FREQUENCY DRIVE. HP AS INDICATED
- $ — SINGLE POLE SWITCH, 20 AMP 120/277 UNLESS NOTED OTHERWISE
  'MS'-INDICATES 1HP RATED GENERAL USE 'SNAP SWITCH' WITH OVERLOADS SIZED FOR EQUIPMENT AND LOCKABLE HASP
  'WP'-INDICATES WEATHER PROOF
- DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. PROVIDE 2-PORT FACEPLATE FOR 2-CAT 6 CABLES (DATA) UON. PROVIDE ACCORDING TO DETAIL.
- FACP — FIRE ALARM CONTROL PANEL
- CM — FIRE ALARM CONTROL MODULE

GENERAL PROJECT NOTES:

1. THE EXISTING FIRE ALARM PANEL IS A EDWARDS SYSTEM TECHNOLOGY EST3 PANEL MAINTAINED BY REDDI ALARM & TIME SYSTEMS, INC. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM SYSTEM DEVICES.



NOTES:

1. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
2. WHERE SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH THE ARCHITECT.
3. THE EC SHALL VERIFY FINAL WORKBENCH, COUNTER,, CABINET OR VANITY HEIGHTS INCLUDING BACK SPLASH, ON SITE WITH THE GC PRIOR TO THE INSTALLATION OF ANY BOXES.
4. WHERE DEVICES ARE INSTALLED ABOVE OR BELOW EACH OTHER ALL DEVICE BOXES SHALL ALIGN VERTICALLY.
5. WHERE DEVICES RE INSTALLED ON EACH SIDE OF A RATED WALL THE DEVICES SHALL BE OFFSET.

L7 DEVICE MOUNTING DETAIL
NTS

EQUIPMENT NAME
XXX VOLTS, X PH, X WIRE
FED FROM PANEL XXX
CIRCUIT XX, XX, XX

NOTES:

1. EXAMPLE PLATE SHOWN.
2. PROVIDE MINIMUM 1/4" HEIGHT WHITE LETTERING ON BLACK BACKGROUND.
3. ATTACH WITH WATERPROOF ADHESIVE.

L3 LAMINATED IDENTIFICATION PLATE
NTS

NAME: SDP-1 — EXISTING PANEL SCHEDULE

MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4
MAIN RATING:	400 A	MCB:	300 A	MIN AIC RATING:	22,000	AMPS RMS SYM	
OTHER:				LOCATION:	SUPPLY/ELEC 18		

NOTES:
1 OF 1

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	**HP-ME-6 MODULE 1**	**15315**	**3#8, #10G, 3/4"C**	**50**	**3**	**5105**			**6387**			**3**	**60**	**3#6, #10G, 3/4"C**	**19160**	**HP-ME-7**	**2**
3	--	--	--	--	--		**5105**			**6387**		--	--	--	--	--	**4**
5	--	--	--	--	--			**5105**			**6387**	--	--	--	--	--	**6**
7	**HP-ME-6 MODULE 2**	**11695**	**3#8, #10G, 3/4"C**	**40**	**3**	**3898**		**1166**			**2**	**1**	**15**	**2#12, #12G, 3/4"C**	**2333**	**FCU(S)/CP(S) Room 110, 109, 107, 105, 103, 102, 104, 106,...**	**8**
9	--	--	--	--	--		**3898**			**1166**		--	--	--	--	--	**10**
11	--	--	--	--	--			**3898**									**12**
13	-	--	--	--	1	--											**14**
15	COMPUTER SECURITY TABLE	--	--	20	1		0			0		1	20	--	--	UPS OUTLET	16
17	TEL CLOSET LIBRARY	--	--	30	1			0			0	1	20	--	--	OUTLET IN METER ROOM	18
19	CP1-2	--	--	80	3	0			0			3	100	--	--	CP1-3	20
21	--	--	--	--	--		0			0		--	--	--	--	--	22
23	--	--	--	--	--			0			0	--	--	--	--	--	24
25	CP1-1	--	--	100	3	0			0			3	100	--	--	CP1-4	26
27	--	--	--	--	--		0			0		--	--	--	--	--	28
29	--	--	--	--	--			0			0	--	--	--	--	--	30

NAME: PP1 — EXISTING PANEL SCHEDULE

MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4
MAIN RATING:	400 A	MCB:	150 A	MIN AIC RATING:	10,000	AMPS RMS SYM	
OTHER:				LOCATION:	MEETING RM. A-5		

NOTES:
1 OF 1.

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	CLASSROOM 101 UV & EF	--	--	20	1	0			0			1	20	--	--	CLASSROOM 102 UV & EF	2
3	CLASSROOM 103 UV & EF	--	--	20	1		0			0		1	20	--	--	CLASSROOM 104 UV & EF	4
5	CLASSROOM 105 UV & EF	--	--	20	1			0			0	1	20	--	--	CLASSROOM 106 UV & EF	6
7	CLASSROOM 107 UV & EF	--	--	20	1	0			0			1	20	--	--	CLASSROOM 108 UV & EF	8
9	CLASSROOM 109 UV & EF	--	--	20	1		0			0		1	20	--	--	CLASSROOM 100 UV & EF	10
11	CORR. 112A CUH'S WING1	--	--	20	1			0			0	1	20	--	--	CLASSROOM 119 UV & EF	12
13	CORR. 141 CUH'S WING2	--	--	20	1	0			0			1	20	--	--	CLASSROOM 117 UV & EF	14
15	CLASSROOM 120 UV & EF	--	--	20	1		0			0		1	20	--	--	CLASSROOM 115 UV & EF	16
17	CLASSROOM 118 UV & EF	--	--	20	1			0			0	1	20	--	--	CLASSROOM 113 UV & EF	18
19	CLASSROOM 116 UV & EF	--	--	20	1	0			0			1	20	--	--	CONTACTOR 1	20
21	CLASSROOM 114 UV & EF	--	--	20	1		0			0		1	20	--	--	CONTACTOR 2	22
23	EXISTING LOAD			20	1			0			0	1	20			SPARE	24
25	**HP-ME-3**	**17590**	**3#6, #10G, 3/4"C**	**60**	**3**	**5863**			**6387**			**3**	**60**	**3#6, #10G, 3/4"C**	**19160**	**HP-ME-4**	**26**
27	--	--	--	--	--		**5863**			**6387**		--	--	--	--	--	**28**
29	--	--	--	--	--			**5863**			**6387**	--	--	--	--	--	**30**
31	**FCU(S)/CP(S) Room 111A, 111B, 111C, 113, 115, 117, 119**	**2073**	**2#12, #12G, 3/4"C**	**15**	**2**	**1037**			**6387**			**3**	**60**	**3#6, #10G, 3/4"C**	**19160**	**HP-ME-5**	**32**
33	--	--	--	--	--		**1037**			**6387**		--	--	--	--	--	**34**
35	**FCU(S)/CP(S) Room A-7, A-6, 120, 118, 116, 114, 112C,...**	**2333**	**2#12, #12G, 3/4"C**	**15**	**2**			**1166**			**6387**	--	--	--	--	--	**36**
37	--	--	--	--	--	**1166**			**360**			**1**	**20**	**#12**	**360**	**RECEPT**	**38**
39	**FCU(S)/CP(S) Room 100, 101, 109P, A-1, A-3, A-4, A-2**	**2333**	**2#12, #12G, 3/4"C**	**15**	**2**		**1166**			0		1	20	--	--	SPARE	40
41	--	--	--	--	--			**1166**			0	1	20	--	--	SPARE	42

NAME: PP2 — EXISTING PANEL SCHEDULE

MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4
MAIN RATING:	225 A	MCB:	150 A	MIN AIC RATING:	10,000	AMPS RMS SYM	
OTHER:				LOCATION:	COPY ROOM C233		

NOTES:
1 OF 1

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	CUH'S CORR. 189 WING3	--	--	20	1	0			0			1	20	--	--	CUH & ERV STORAGE 194	2
3	CUH OUTSIDE MUSIC RM	--	--	20	1		0			0		1	20	--	--	MUSIC 167 EF & UV	4
5	ART ROOM UV & EF	--	--	20	1			0			0	1	20	--	--	EF - CLASSROOM 127 UV- 130, 132, 134	6
7	CLASSROOM EF	--	--	20	1	0			0			1	20	--	--	UV- 131, 133, 135 EF 129	8
9	CLASSROOM EV	--	--	20	1		0			0		1	20	--	--	131 EF	10
11	UV-126, 128 EF-126	--	--	20	1			0			0	1	20	--	--	CLASSROOM 133 UV & EF	12
13	UV-127, 129 EF-128	--	--	20	1	0			0			1	20	--	--	CLASSROOM 135 UV & EF	14
15	CLASSROOM 130 EF	--	--	20	1		0			0		1	20	--	--	OUTLET BELOW ACCU-COND-PUMP	16
17	CLASSROOM 132 EF	--	--	20	1			0			0	2	20	--	--	ACCU PHYS. ED 193	18
19	CLASSROOM 134 EF	--	--	20	1	0			0			--	--	--	--	--	20
21	UV 176 OFFICE 176	--	--	20	1		0			0		1	20		--	WALL OUTLET	22
23	CONTROL CKT FOR CONTACTOR	--	--	20	1			0			**907**	**2**	**15**	**2#12, #12G, 3/4"C**	**1814**	**FCU(S)/CP(S) Room 125, 126, 128, 130, 132, 134, 121**	**24**
25	**HP-ME-1 MODULE 1**	**17590**	**3#6, #10G, 3/4"C**	**60**	**3**	**5863**			**907**			--	--	--	--	--	**26**
27	--	--	--	--	--		**5863**			**778**		**2**	**15**	**2#12, #12G, 3/4"C**	**1555**	**FCU(S)/CP(S) Room 135, 133, 131, 129, 127, 123**	**28**
29	--	--	--	--	--			**5863**			**778**	--	--	--	--	--	**30**
31	**HP-ME-1 MODULE 2**	**15315**	**3#8, #10G, 3/4"C**	**50**	**3**	**5105**			0			1	20	--	--	SPARE	32
33	--	--	--	--	--		**5105**			0		1	20	--	--	SPARE	34
35	--	--	--	--	--			**5105**			0	1	20	--	--	SPARE	36
37	**HP-ME-2**	**19160**	**3#6, #10G, 3/4"C**	**60**	**3**	**6387**			0			1	20	--	--	SPARE	38
39	--	--	--	--	--		**6387**			0		1	20	--	--	SPARE	40
41	--	--	--	--	--			**6387**			0	1	20	--	--	SPARE	42

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NUFSD BOND PROJECTS PH 5 - MILLER ES

- ☐ SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- ☐ SED#50-01-08-03-7-007-002 (Maintenance)
- ☐ SED#50-01-08-03-7-012-004 (OEC)
- ■ SED#50-01-08-03-0-001-026 (MILLER ES)
- ☐ SED#50-01-08-03-0-004-022 (BARR MS)

Highview Elementary School
24 Highview Ave
Nanuet, NY 10954

OEC Building
135 Convent Rd
Nanuet, NY 10954

Maintenance Building
103 Church St.
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET

DATE: 06/21/2024

SCALE: As indicated

SHEET NAME:
ELECTRICAL LEGEND, DETAILS, AND PROJECT NOTES

SHEET NUMBER:
ME-E001

ISSUE FOR BID SET

DRAWN BY: Author
CHECKED BY: Checker
Checker,\\int1\Documents\4196_MILLER_ELEC_PH5_prf-sage.rvt
6/19/2024 4:07:47 PM

PROJECT NUMBER: 2111003.00

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