

SYMBOLS LEGEND:

- RECESSED PANEL
- SURFACE MOUNTED PANEL
- JUNCTION BOX
- HOME RUN IN ITS OWN CONDUIT TO PANEL. #12G, #12G, 3/4" 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
- "V" INDICATES TRIP RATING IN AMPS
- "# INDICATES NUMBER OF POLES
- 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.
- CONNECTION POINT
- DUPLEX RECEPTACLE
- "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER
- "AF" INDICATES ARC FAULT CIRCUIT INTERRUPTER
- "WP" WEATHER-PROOF DEVICE WITH WEATHER PROOF WHILE IN USE COVER
- QUADRUPLEX RECEPTACLE
- SINGLE POLE SWITCH, 20 AMP 120/277 UNLESS NOTED OTHERWISE
- "MS" INDICATES HRP RATED GENERAL USE "SWAP" SWITCH WITH OVERLOADS SIZED FOR EQUIPMENT AND LOCKABLE HASP
- "3MS" INDICATES 3 POLE 600 VOLT 30 AMP 3HP RATED MANUAL MOTOR STARTER WITH LOCKABLE HASP
- "WP" INDICATES WEATHER PROOF
- "VS" INDICATES VACUANCY SENSOR SWITCH
- TELEPHONE OUTLET MOUNTED AT 48" UON
- DATA OUTLET 1-PORT IN FACEPLATE
- ROUTER-INDICATES WALL MOUNTED INTERNET ROUTER
- DATA OUTLET 2-PORTS IN FACEPLATE
- WIFI ANTENNA
- CEILING OR WALL MOUNTED LED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
- CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
- CEILING OR WALL MOUNTED COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT
- PENDANT, SURFACE, OR WALL LIGHT FIXTURE. SEE FIXTURE SCHEDULE FOR TYPE.
- RECESSED LIGHT FIXTURE. SEE FIXTURE SCHEDULE FOR TYPE.
- DOWNLIGHT. SEE FIXTURE SCHEDULE FOR TYPE.

ABBREVIATIONS: (SOME MAY NOT BE USED)

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

GENERAL NOTES:

- THE EXISTING FIRE ALARM PANEL IS A FIRELITE MS-6012 PANEL MAINTAINED BY SAFENET SECURITY SYSTEMS. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM SYSTEM DEVICES.

KEYED NOTES:

- REMOVE EXISTING LIGHT FIXTURE. PROVIDE NEW LIGHT FIXTURE AND CONNECT TO EXISTING CIRCUIT SERVING AREA.
- PROVIDE EMERGENCY LIGHTING UNIT "ELU" AND CONNECT TO EXISTING CIRCUIT THAT FEEDS LIGHTING AHEAD OF SWITCHING.
- DISCONNECT SPLIT SYSTEM CIRCUIT BACK TO SOURCE.
- DISCONNECT BASEBOARD HEATER CIRCUIT BACK TO SOURCE.
- REPLACE EXISTING PANELBOARD, RECONNECT FEEDER AND BRANCH CIRCUITS.
- PROVIDE 4" EMT CONDUIT, 24" ABOVE CEILING FOR FUTURE SERVICE UPGRADE. PROVIDE PULL STRING.

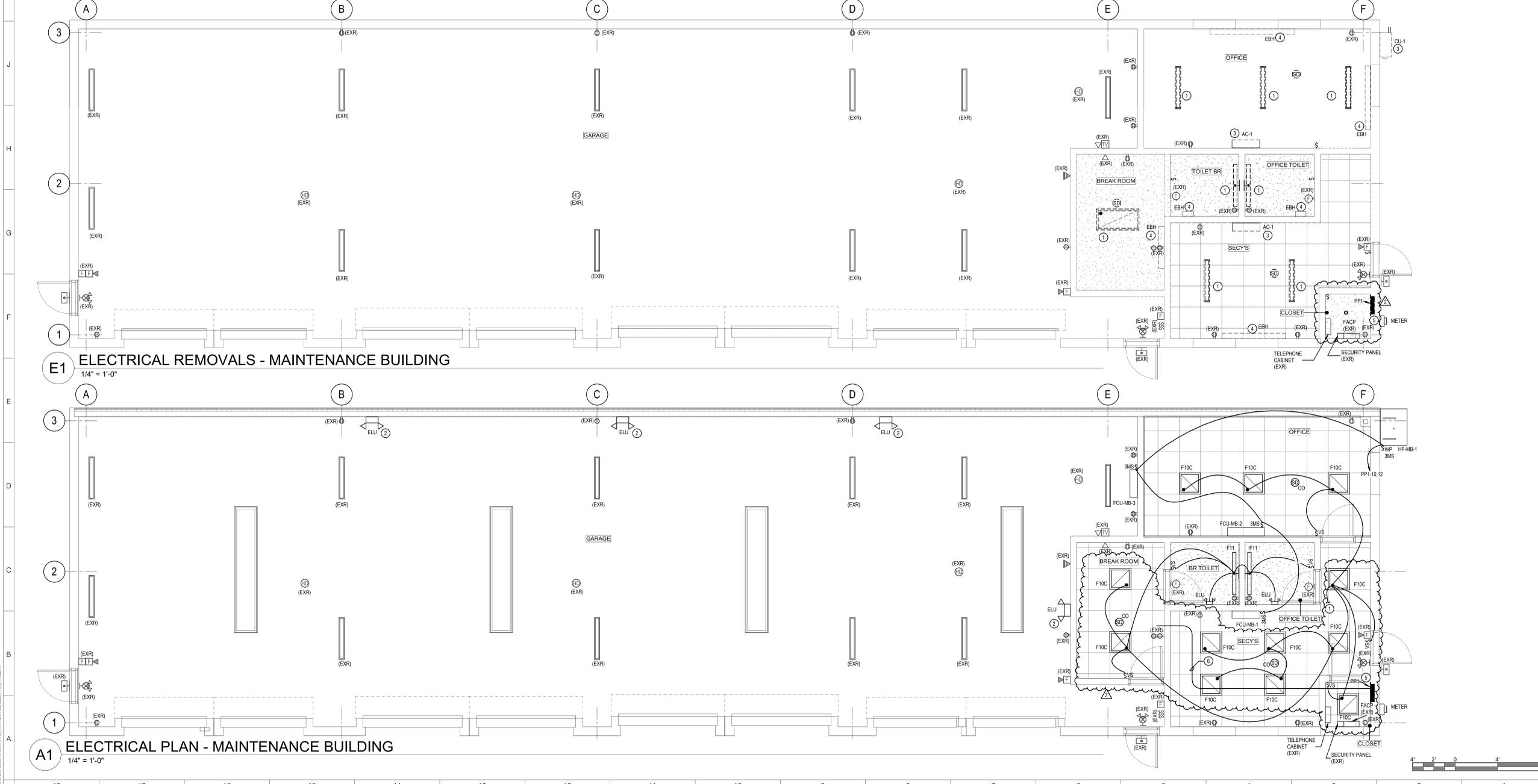
FIRE ALARM LEGEND:

- FIRE ALARM CONTROL PANEL
- PULL STATION
- SMOKE DETECTOR
- HEAT DETECTOR - RATE OF RISE, FIXED TEMPERATURE 135°F
- WALL MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 15 CANDELA UNLESS NOTED OTHERWISE
- WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE
- "X" INDICATES CANDELA RATING STROBE UON

LIGHTING CONTROL NARRATIVE:

- WHERE SHOWN WITH WALL MOUNTED VACANCY SENSORS, LIGHTS ARE MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTES WHEN NO MOTION IS DETECTED.

M3 SINGLE LINE DIAGRAM
N.T.S.



ARCHITECT

ksqdesign

NEW YORK OKLAHOMA

KSQ Design
215 W 40th Street 15th Floor
New York, NY 10018
646.435.0660 office
www.ksqdesign.com

Owner

Nanuet Union Free School District
101 Church Street
Nanuet, NY 12954
845.627.9880
www.nanuetud.org

Structural Engineer

Clapper Structural Engineering
160 Partition Street
Saugerties, NY 12477
845.943.9811
www.clappersstructural.com

MEP Engineer

Sage Engineering Associates, LLP
9 Columbia Circle
Albany, NY 12203
518.453.6091
www.sagegrp.com

Environmental Engineer

Quest Environmental Solutions
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager

Jacobs
One Penn Plaza
24th Floor, Suite 2400
New York, NY 10119
646.906.6550
www.jacobs.com



- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 - SED#50-01-08-03-0-003-002 (Maintenance)
 - SED#50-01-08-03-0-004-004 (OEC)
 - SED#50-01-08-03-0-001-028 (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**
03 Church St.
Nanuet, NY 10954
- Miller Elementary School**
50 Blauvelt Rd Unit 1
Nanuet, NY 10954
- A MacArthur Barr Middle School**
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date
2	Addendum #2	01/30/25

ISSUED: 50% CD SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME: OVERALL ELECTRICAL PLANS

SHEET NUMBER: MB-E101

ISSUE FOR BID SET