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## GENERAL NOTES

### SYMBOLS AND ABBREVIATIONS

- THIS SHEET CONTAINS SYMBOLS AND ABBREVIATIONS TYPICALLY SHOWN ON ELECTRICAL DRAWINGS AND SCHEMATICS. THIS CONTRACT DRAWING SET MAY NOT CONTAIN ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET.

### UTILITY

- ELECTRICAL UTILITY COMPANY WHICH SERVES SITE IS CON EDISON (UTILITY). COORDINATE ALL WORK WITH UTILITY. REFERENCE WORK ORDER NUMBER M-C-542365.

### EXISTING DISTRIBUTION VOLTAGE AND PHASING

- EXISTING VOLTAGE AND PHASING IS BASED ON CURSORY FIELD OBSERVATIONS AND EXISTING CONSTRUCTION DRAWINGS. THEY HAVE NOT BEEN MEASURED OR OTHERWISE CONFIRMED.
- CONTRACTOR SHALL CONFIRM ALL VOLTAGES AND PHASING ON SITE TO ENSURE THEY MATCH THIS CONSTRUCTION DRAWING SET. THIS SHALL OCCUR PRIOR TO SUBMITTALS.

### PERMITS AND INSPECTIONS

- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEC, AND STATE AND LOCAL GOVERNING REGULATIONS.

### SCOPE

- UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
- ALL DISCONNECTS REQUIRED BY CODE MAY NOT BE SHOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS AND OVERCURRENT PROTECTIVE DEVICES.
- ALL EQUIPMENT AND MATERIAL SHALL BE LABELLED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
- PROVIDE ELECTRICAL POWER WIRING TO ALL MECHANICAL EQUIPMENT.

### COORDINATION OF WORK

- COORDINATE ALL ELECTRICAL WORK WITH OWNER'S PRESERVATION REPRESENTATIVE. NO SURFACES SHALL BE PERMANENTLY IMPACTED WITHOUT AUTHORIZATION FROM OWNER.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY THAT WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS ARE MET PER NEC AND AHJ.
- FIELD LOCATE ALL CORE DRILL LOCATIONS.
- BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS A BUILDING UTILITIES. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO ENSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
- COORDINATION OF POSSIBLE SYSTEM SHUT-DOWNS AND WORK AREAS NEED TO BE COORDINATED WITH THE OWNER.
- VERIFY RECEPTACLE, SWITCH, & COVER PLATE COLORS WITH OWNER.
- TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.

### DEFINITIONS

- THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AS REFERENCED IN THE BUILDING CODE OF NEW YORK STATE.
- THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
- THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
- THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".

### PLANS

- ELECTRICAL PLANS, DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
- ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST, THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.

### METHODS

- ALL EXTERIOR CONDUITS HAVE DUCT SEAL INSTALLED AT ALL ENDS, BOXES, WEATHERHEADS, PENETRATIONS TO INTERIOR SPACES, ETC.
- DUCT BANKS SHALL NOT BE ROUTED DIRECTLY ABOVE OR BELOW EXISTING/PROPOSED UTILITIES EXCEPT WHEN CROSSING. WHERE CROSSING EXISTING OR PROPOSED UTILITIES DUCT BANKS SHALL CROSS AT 90 DEGREE ANGLES. ALL CONDUIT SYSTEMS EXPOSED TO TEMPERATURE DIFFERENTIALS, IN POTENTIAL CONDENSING ATMOSPHERES, EXTERIOR INSTALLED, OR INSTALLED UNDERGROUND SHALL HAVE PROVISIONS FOR DRAINING WATER OUT OF CONDUIT SYSTEMS. PROVIDE DRAIN IN CONDUIT SYSTEMS AT LOW POINTS. LOW POINT SHALL NOT BE AT EQUIPMENT OR DEVICE. A BREATHER SHALL BE PROVIDED AT THE HIGH POINT OF THE SYSTEM.

### UNDERGROUND UTILITIES

- UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK & SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM HIS WORK.
- THE CONTRACTOR SHALL NOTIFY "DIG SAFELY NEW YORK" 1-800-962-7962 PRIOR TO ANY EXCAVATION.

## SYMBOLS

### LINEWEIGHT AND LINETYPE DESIGNATIONS

	EXISTING OR BY OTHERS UOI
	PROPOSED (TO BE PROVIDED BY THIS CONTRACT) UOI
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC

### BASIC DRAWING SYMBOLS

	UNDERGROUND DUCT BANK DESIGNATION
	KEYED NOTE
	FEEDER DESIGNATION
	CONTROL CIRCUIT DESIGNATION
	REM OVALS
	REINFORCED CONCRETE DUCT BANK
	CONCRETE DUCT BANK
	UNSWITCHED CONTINUATION CIRCUIT
	SWITCHED CONTINUATION CIRCUIT
	CIRCUIT NUMBER
	HOMERUN 2#12, 1#12 GND IN 3/4\"/>
	CIRCUIT BREAKER IN DESIGNATED PANEL UOI
	PANEL DESIGNATION

### SERVICE & DISTRIBUTION

	UTILITY POLE
	SELF-CONTAINED METER
	METER CABINET WITH REMOTE METER
	TRANSFORMER
	DELTA DISTRIBUTION SYSTEM
	WYE DISTRIBUTION SYSTEM

### WIRING METHODS

	GAS/WATERTIGHT PENETRATION
	INSULATED BUSHING OR CONDUIT STUB
	SEAL OFF
	CONDUIT UNION
	EXPANSION FITTING
	FLEXIBLE CONNECTION
	COILED SLACK
	CONTINUATION
	CABLE FLOAT
	PULL BOX, ITEM NUMBER
	JUNCTION BOX
	HAND HOLE, ITEM NUMBER
	CORD AND PLUG, AS INDICATED ON DWG

### WIRING DIAGRAM

	CONTACTOR (NO)
	CONTACTOR (NC)
	RELAY
	OVERLOAD RELAY
	SOLENOID
	LIGHTNING ARRESTOR
	DRAW-OUT FRAME
	MATED CONNECTION

### SWITCHES AND PROTECTIVE DEVICES

	CIRCUIT BREAKER
	FUSE
	AIR-BREAK SWITCH
	MANUALLY GANG OPERATED DISCONNECTING SWITCH WITH ARCING HORNS
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	SWITCH (OPEN)
	SWITCH (CLOSED)
	FUSE OUTLET

### GROUNDING

	GROUND WITH DIRECT CONNECTION TO EARTH
	GROUND ROD

### EQUIPMENT

	FAN/BLOWER
	MOTOR WITH HORSEPOWER
	VARIABLE FREQUENCY DRIVE (VFD)
	SOLAR PHOTOVOLTAIC PANEL
	PHOTOCELL
	GENERATOR
	AUTOMATIC TRANSFER SWITCH

### CONTROL & INSTRUMENTATION DEVICES

	CONTROL DEVICE OR STATION, TYPE, ITEM NUMBER
	THERMOSTAT
	TEMPERATURE ACTUATED SWITCH (OPEN)
	TEMPERATURE ACTUATED SWITCH (CLOSED)
	FLOW SWITCH
	PUSH BUTTON (OPEN)

### RECEPTACLES & DATA DEVICES

	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	SPECIAL RECEPTACLE, 4'AFF, NEMA CONFIGURATION AS NOTED.
	SWITCHED DUPLEX RECEPTACLE OUTLET, SWITCH TOP HALF
	SINGLE DEVICE WALL MOUNT DATA BOX
	SINGLE DEVICE WALL MOUNT TELEPHONE BOX
	DUAL DEVICE WALL MOUNT BOX (TWO RJ45 OUTLETS, LABEL ONE "TELEPHONE" AND ONE "DATA")

### RECEPTACLES & DATA DEVICES - SUBSCRIPT DESIGNATIONS

AC	INSTALLED ABOVE COUNTER
DED	DEDICATED
GFI	INDICATES GFCI PROTECTED RECEPTACLE
TR	TAMPER RESISTANT
WP	INDICATES GFCI PROTECTED W/ IN-USE WEATHERPROOF COVER
48	NO. INDICATES MOUNTING HEIGHT, OTHER THAN 18" AFF
(REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES)	
SWITCH: S-SINGLE POLE, 3-THREE WAY, 4-FOUR WAY, D-DIMMER, K-KEY, P-PILOT, M-MOTION/OCCUPANCY SENSOR	
CEILING MOUNTED OCCUPANCY/MOTION SENSOR	
LIGHT FIXTURE, LETTER INDICATES TYPE, 'EL' INDICATES EGRESS LIGHTING CIRCUIT	
LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	
LIGHT FIXTURE, SPOT, CAN, OTHER	
LIGHT FIXTURE, FLOOD	
WALL PACK, OUTDOOR LIGHTING FIXTURE	
EXIT LIGHT FIXTURE, CEILING MOUNTED, ARROWS AS INDICATED, SHADING INDICATES FACE	
EXIT LIGHT FIXTURE, WALL MOUNTED, ARROWS AS INDICATED, SHADING INDICATES FACE	
EMERGENCY LIGHTING UNIT, REMOTE BATTERY	
EMERGENCY LIGHTING UNIT, INTEGRAL BATTERY	
SITE LIGHTING FIXTURE, TWIN POLE MOUNTED	
SITE LIGHTING FIXTURE, SINGLE POLE MOUNTED	

### FIRE PROTECTION

	FIRE ALARM SYSTEM, STROBE/HORN
	FIRE ALARM SYSTEM, STROBE ONLY
	FIRE ALARM SYSTEM, HORN
	FIRE ALARM SYSTEM, PULL STATION
	FIRE ALARM SYSTEM, STROBE/BELL
	FIRE ALARM SYSTEM, SPEAKER
	FIRE ALARM SYSTEM, BEAM DETECTOR
	FIRE ALARM SYSTEM, BEAM DETECTOR RECEIVER
	FIRE ALARM SYSTEM, SMOKE DETECTOR
	FIRE ALARM SYSTEM, HEAT DETECTOR
	FIRE ALARM SYSTEM, CARBON MONOXIDE DETECTOR
	FIRE ALARM SYSTEM, FIRE ALARM CONTROL PANEL
	FIRE ALARM SYSTEM, FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM SYSTEM, MAG. DOOR HOLDER (F=FLR, C=CLG, W=WALL)

## ABBREVIATIONS

Φ	PHASE	LRA	LOCKED ROTOR AMPS
A	AMPERE	LS	LEVEL SENSOR
AC	ABOVE COUNTER	LTS	LIGHTS
ACCU	AIR COOLED CONDENSING UNIT	MA	MILLIAMPERE
AF	AMP FRAME	MAN	MANUAL STARTER
AFF	ABOVE FINISHED FLOOR	MAG	MAGNETIC
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MC	MECHANICAL CONTRACTOR
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPACITY
ANN	ANNUNCIATOR	MCB	MAIN CIRCUIT BREAKER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MCC	MOTOR CONTROL CENTER
AT	AMPER TRIP	MCP	MAIN CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL
AV	AUDIO/VISUAL	MDS	MAIN DISCONNECT SWITCH
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
AXL	ACROSS THE LINE	MH	METAL HALIDE
B	BOILER	MH	MOUNTING HEIGHT
BATT	BATTERY	MIN	MINIMUM
BFG	BENEATH FINISHED GRADE	MS	MOTOR STARTER
BLDG	BUILDING	MTD	MOUNTED
BW	BANDWIDTH	MTS	MANUAL TRANSFER SWITCH
C	CONDUIT	N	NEUTRAL
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CFL	COMPACT FLUORESCENT	NEC	NATIONAL ELECTRICAL CODE
CHAR	CHARACTERISTICS	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CKT	CIRCUIT	NIC	NOT IN CONTACT
CL	CURRENT LIMITING	NL	NIGHT LIGHT
CLG	CEILING	NO	NORMALLY OPEN
COMB	COMBINATION STARTER	P	POLE
COM M	COMMUNICATIONS	P	PUMP
CONC	CONCRETE	PA	PUBLIC ADDRESS
CONST	CONSTRUCTION	PB	PULL BOX
CONT	CONTRACT	PEND	PENDANT
CP	CONTROL PANEL	PC	PHOTO CELL
CT	CURRENT TRANSFORMER	PH	PHASE
CJ	COPPER	PNL	PANEL
DB	DUCT BANK	PP	POWER PANEL
dB	DECIBELS	PRI	PRIMARY
DEG	DEGREE	PROV	PROVIDED (FURNISHED AND INSTALLED)
DISC	DISCONNECT	PSI	POUNDS PER SQUARE INCH
DIV	DIVISION	PT	POTENTIAL TRANSFORMER
DP	DISTRIBUTION PANEL	PT	PRESSURE TRANSDUCER
DOT	DEPARTMENT OF TRANSPORTATION	PTAC	PACKAGED TERMINAL AIR CONDITIONING
DS	DISCONNECT SWITCH	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PWR	POWER
EA	EACH	QTY	QUANTITY
EC	ELECTRICAL CONTRACTOR	RCPT	RECEPTACLE
EF	EXHAUST FAN	REQD	REQUIRED
ELEV	ELEVATOR	RGS	RIGID GALVANIZED STEEL
EM	EMERGENCY	RLA	RUNNING LOAD AMPS
EMI	ELECTROMAGNETIC INTERFERENCE	RM	ROOM
EPS	EMERGENCY POWER SUPPLY	RS	RAPID START
EPSS	EMERGENCY POWER SUPPLY SYSTEM	RTU	RADIO TELEMETRY UNIT
EQUIP	EQUIPMENT	RTU	REMOTE TERMINAL UNIT
ETC	ET CETERA	RVD	REDUCED VOLTAGE DRIVE
EUH	ELECTRIC UNIT HEATER	SEC	SECONDARY
EXT	EXTERIOR	SPEC	SPECIFICATION
FA	FIRE ALARM	SQ	SQUARE
FAAP	FIRE ALARM ANNUNCIATION PANEL	SS	SOFT START
FACP	FIRE ALARM CONTROL PANEL	ST	SHUNT TRIP
FB	FURNISHED BY	STP	SHIELDED TWISTED PAIR
FL	FLUORESCENT	SUPP	SUPPLIED
FLA	FULL LOAD AMPACITY	SURF	SURFACE
FLR	FLOOR	SW	SWITCH
FLUOR	FLUORESCENT	SWBD	SWITCHBOARD
FSR	FAN SHUT-DOWN RELAY	SYM	SYMBOLICAL
FT	FEET	TEL	TELEPHONE
FURN	FURNISH	TSTAT	THERMOSTAT
GC	GENERAL CONTRACTOR	TV	TELEVISION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GND	GROUND	UG	UNDERGROUND
HH	HAND HOLE	UGE	UNDERGROUND ELECTRIC
HID	HIGH INTENSITY DISCHARGE	UH	UNIT HEATER
HOA	HAND-OFF-AUTO SELECTOR SWITCH	UL	UNDERWRITER'S LABORATORIES
HP	HORSEPOWER	UOI	UNLESS OTHERWISE INDICATED
HPS	HIGH PRESSURE SODIUM	UPS	UNINTERRUPTIBLE POWER SUPPLY
HWH	HOT WATER HEATER	V	VOLTAGE
HZ	HERTZ	UTP	UNSHIELDED TWISTED PAIR
IB	INSTALLED BY	VA	VOLT AMPERES
IN	INCHES	VFD	VARIABLE FREQUENCY DRIVE
IND	INDICATED	W	WIRE
INST	INSTALLED	W/	WITH
JB	JUNCTION BOX	W/O	WITHOUT
KAIC	1000 AMPERE INTERRUPTING CAPACITY	WCR	WITHSTAND CURRENT RATING
KCMIL	1000 CIRCULAR MILS	WP	WEATHERPROOF
KW	KILOWATT	WP	WELL PUMP
LCD	LIQUID CRYSTAL DISPLAY	WT	WATERTIGHT
LED	LIGHT EMITTING DIODE	XFMR	TRANSFORMER
LOC	LOCATION		
LP	LIGHTING PANEL		

**NEW YORK  
STATE OF  
OPPORTUNITY.**

**Parks, Recreation  
and Historic Preservation**

Governor Andrew M. CuomoCommissioner Erik Kulesseid

**Architect:**  
*Saratoga Associates*  
21 Congress Street, Suite 201  
Saratoga Springs, NY 12866

**SARATOGA  
ASSOCIATES**  
Landscape Architects, Architects,  
Engineers, and Planners, P.C.

**Engineer:**  
*Barton and Loguidice*  
443 Electronics Parkway  
Liverpool, NY 13088

**Barton  
&Loguidice**

**Exhibit Designer:**  
AMAZE DESIGN  
PO Box 51905  
Boston, MA 02205-9761

**amaze DESIGN**

**NYS OPRHP Taconic Region**  
9 Old Post Rd, PO Box 308  
Staatsburg, New York 12580  
(845) 889-4100  
Regional Director: Linda Cooper  
District Manager: Garrett Jobson

**Project Title:**  
Philipse Manor Hall State Historic Site  
Construction of Elevator/Restroom  
Addition, Interior and Exterior  
Rehabilitation and Site Enhancements

**Project Location:**  
29 Warburton Ave, Yonkers, NY, 10701

**Key Plan**

REVISIONS		
Rev No	Description	Date

Drawn By:  
**TRL**

Design By:  
**TRL**

Checked By:  
**JWC**

Approved By:  
**TWB**

Date:  
**5/28/2021**

Seal and Signature

**Sheet Title:**  
**ELECTRICAL  
REFERENCE**

**Bid Documents**

Project Number:  
**1299.029.001**

Sheet:

Drawing Number:  
**E001**

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