

three inches = one foot  
one and one-half inch = one foot  
one inch = one foot  
three-quarters inch = one foot  
three-eighths inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot

POWER

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	TWO DUPLEX IN TWO GANG BOX (QUAD)
	SPLIT WIRED DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER
	ABOVE COUNTER
	FLOOR RECEPTACLE
	WEATHERPROOF
	SURGE SUPPRESSION
	FLOOR BOX
	SPECIAL PURPOSE OUTLET, SUBSCRIPT REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	POWER / COMMUNICATION POLE
	ELECTRIC HAND DRYER
	PUSHBUTTON
	BELL OR BUZZER
	FUSED DISCONNECT, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	NONFUSED DISCONNECT, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	MAGNETIC MOTOR STARTER, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	MANUAL MOTOR STARTER, FRACTIONAL HORSEPOWER, TOGGLE OPERATOR
	COMBINATION MAGNETIC MOTOR STARTER, DISCONNECT SWITCH, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	MOTOR CONNECTION, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	VARIABLE FREQUENCY DRIVE, DESIGNATION REFERS TO ELECTRIC EQUIPMENT CONTROL SCHEDULE
	MANUAL MOTOR STARTER, INTEGRAL HORSEPOWER, PUSH BUTTON OPERATOR
	ELECTRIC METER
	JUNCTION BOX
	BUSPLUG
	PULLBOX
	ENCLOSED CIRCUIT BREAKER
	SINGLE FACE PEDESTAL BOX
	DOUBLE FACE PEDESTAL BOX
	EMERGENCY POWER RECEPTACLE
	POWER CONNECTION
	DROP CORD
	CORD REEL
	THERMOSTAT
	POWER POLE

WIRE SIZE, WIRE COUNT, AND CONDUIT SIZE AS NOTED  
WIRE MOLD  
PLUG MOLD

LIGHTING

SYMBOL	DESCRIPTION
	SINGLE POLE LIGHT SWITCH
	SINGLE POLE LIGHT SWITCH - OCCUPANCY SENSOR OPERATED
	SINGLE POLE LIGHT SWITCH - KEY OPERATED
	THREE WAY LIGHT SWITCH
	FOUR WAY LIGHT SWITCH
	INDICATES MULTI-LEVEL SWITCHING
	DIMMER SWITCH
	TIME CLOCK / SWITCH
	PHOTO CONTROL
	2'x4' RECESSED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	2'x2' RECESSED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	1'x4' RECESSED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	INDICATES FIXTURE ON EMERGENCY CIRCUIT
	6'-8' ROUND RECESSED DOWNLIGHT
	12' ROUND RECESSED DOWNLIGHT
	12' SQUARE RECESSED DOWNLIGHT
	2' WALL MOUNTED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	3' WALL MOUNTED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	4' WALL MOUNTED FIXTURE, DESIGNATION REFERS TO FIXTURE SCHEDULE
	ROUND WALL SCONCE
	SQUARE WALL SCONCE
	4 FT. STRIP FIXTURE
	3 FT. STRIP FIXTURE
	2 FT. STRIP FIXTURE
	4 FT. TRACK LIGHT
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN, DOUBLE FACE
	WALL MOUNTED COMBINATION EXIT SIGN/EMERGENCY EGRESS LIGHTING, SINGLE FACE
	CEILING MOUNTED EXIT SIGN, SINGLE FACE
	CEILING MOUNTED EXIT SIGN, DOUBLE FACE
	EMERGENCY LIGHTING FIXTURE WITH INTEGRAL BATTERY
	EMERGENCY LIGHTING FIXTURE WITH REMOTE BATTERY (TWO HEADS)
	EMERGENCY LIGHTING FIXTURE WITH REMOTE BATTERY (SINGLE HEAD)
	LIGHTING CONTACTOR
	WALL MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR

MISCELLANEOUS

SYMBOL	DESCRIPTION
	REFERENCE TO DRAWING NOTE
	REFERENCE TO FEEDER SCHEDULE
	ROOM NUMBER
	ARROWHEAD LINE TERMINATOR
	WALL SECTION SYMBOL
	MULTIPLE ELEVATION SYMBOL
	DETAIL REFERENCE SYMBOL
	DRAWING REFERENCE SYMBOL

ONE LINE SYMBOLS

SYMBOL	DESCRIPTION
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER, DESIGNATION INDICATES AMPERE RATING
	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER, DRAW-OUT TYPE, DESIGNATION INDICATES AMPERE RATING
	SOLID STATE BREAKER, DESIGNATIONS INDICATE FUNCTIONS: CL - CURRENT LIMITING L - LONG TIME TRIP S - SHORT TIME TRIP I - INSTANTANEOUS TRIP G - GROUND FAULT TRIP
	SHUNT TRIP TYPE CIRCUIT BREAKER
	FUSED DISCONNECT SWITCH
	FUSE
	BRANCH CIRCUIT DISTRIBUTION PANEL, REFER TO PANELBOARD SCHEDULES
	GROUND CONNECTION
	LIGHTNING ARRESTOR
	SCHEMATIC MOTOR
	EMERGENCY GENERATOR
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	METER DESIGNATION INDICATES TYPE: A - AMMETER V - VOLTMETER KW - KILOWATT-HOUR METER
	AMMETER SELECTOR SWITCH
	VOLTMETER SELECTOR SWITCH
	GROUND FAULT
	DRAW OUT DEVICE

PUBLIC ADDRESS

SYMBOL	DESCRIPTION
	CEILING MOUNTED SPEAKER, DESIGNATION REFERS TO TYPE IN SPECIFICATION
	WALL MOUNTED SPEAKER, DESIGNATION REFERS TO TYPE IN SPECIFICATION
	PROFESSIONAL QUALITY SPEAKER
	SPEAKER CLUSTER
	PUBLIC ADDRESS EQUIPMENT RACK
	PUBLIC ADDRESS CONTROL CENTER
	PUBLIC ADDRESS SPEAKER VOLUME CONTROL
	WALL MOUNTED MICROPHONE OUTLET
	FLOOR MOUNTED MICROPHONE OUTLET
	PUBLIC ADDRESS INTERCOM STATION
	WALL MOUNTED CLOCK LETTER REFERS TO TYPE IN SPECIFICATIONS
	WALL MOUNTED DIGITAL CLOCK LETTER REFERS TO TYPE IN SPECIFICATIONS
	WALL MOUNTED CLOCK AND SPEAKER LETTER REFERS TO TYPE IN SPECIFICATIONS
	WIRELESS CLOCK TRANSMITTER
	CLOCK SYSTEM BOOSTER POWER SUPPLY S - SYNCHRONOUS TYPE I - IMPULSE TYPE

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION
	HAND-OFF-AUTO SELECTOR SWITCH
	SOLENOID VALVE COIL
	N.O. PUSHBUTTON
	N.C. PUSHBUTTON
	N.O. RELAY CONTACT
	N.C. RELAY CONTACT
	N.O. FLOW SWITCH
	N.C. FLOW SWITCH
	N.O. LEVEL SWITCH
	N.C. LEVEL SWITCH
	N.O. PRESSURE SWITCH
	N.C. PRESSURE SWITCH
	N.O. TEMPERATURE SWITCH
	N.C. TEMPERATURE SWITCH
	N.O. SWITCH
	N.C. SWITCH
	N.O. LOW LIMIT SWITCH
	N.C. LOW LIMIT SWITCH
	N.O. HIGH LIMIT SWITCH
	N.C. HIGH LIMIT SWITCH
	EMERGENCY STOP PUSHBUTTON
	RELAY COIL
	INDICATOR LIGHT

SECURITY

SYMBOL	DESCRIPTION
	CARD READER
	MAGNETIC DOOR CONTACT
	KEYPAD
	SPECIAL INTRUSION DETECTION SENSOR
	MOTION DETECTOR
	CONNECT TO SECURITY SYSTEM HARDWARE OR DEVICE PROVIDED BY OTHERS
	EXIT REQUEST
	ELECTRO MAGNETIC LOCK
	INTERCOM
	ELECTRIC LATCH RETRACTION BAR
	ELECTRIC LOCK
	POWER SUPPLY
	INTRUSION DETECTION CONTROL CENTER
	CLOSED CIRCUIT TELEVISION CAMERA (FIXED)
	CLOSED CIRCUIT TELEVISION CAMERA (PAN-TILT-ZOOM)
	KEYPAD POWER SUPPLY
	ELECTRIC LATCH RETRACTION BAR POWER SUPPLY

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
	MANUAL PULL STATION
	CEILING MOUNTED SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	VISUAL FIRE ALARM STROBE
	AUDIO-VISUAL FIRE ALARM LETTER REFERS TO TYPE IN DESCRIPTION
	CEILING MOUNTED THERMO DETECTOR LETTER REFERS TO TYPE IN SPECIFICATIONS
	CEILING MOUNTED CARBON DIOXIDE DETECTOR
	INDICATES AUXILIARY CONTACTS ON FIRE ALARM DEVICE
	WALL MOUNTED MAGNETIC DOOR HOLDER
	FLOOR MOUNTED MAGNETIC DOOR HOLDER
	CONNECTION TO MAGNETIC DOOR HOLDER PROVIDED BY THE ARCHITECT
	CONNECTION TO ROOF MOUNTED SMOKE HATCH OR WALL MOUNTED LOUVER
	CONNECTION TO SPRINKLER FLOW SWITCH
	CONNECTION TO ELEVATOR CAPTURE CONTROL
	CONNECTION TO SPRINKLER SYSTEM TAMPER SWITCH
	FIRE ALARM SYSTEM EMERGENCY PHONE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	VOICE CONTROL CENTER PANEL ANNUNCIATOR PANEL
	NOTIFICATION APPLIANCE EXTENDER PANEL
	ZONE ADDRESS MODULE
	INDIVIDUAL ADDRESS MODULE
	COLLECTIVE ZONE INTERFACE
	AUXILIARY POWER SUPPLY S - SIGNAL DEVICES D - DOOR HOLD OPENS
	FAN SHUTDOWN
	ADDRESSABLE MONITOR MODULE
	SMOKE DAMPER

ABBREVIATIONS:

o	- NORMALLY OPEN AUXILIARY CONTACT
ACA	- AC AMMETER
ACV	- AC VOLTMETER
ALM	- ALARM
AVR	- AUTOMATIC VOLTAGE REGULATOR
AVS	- AMMETER / VOLTMETER PHASE SELECTOR SWITCH
BACV	- BUS AC VOLTMETER
BFM	- BUS FREQUENCY METER
C	- INDICATING LIGHT C.B. CLOSED
CCCT	- CROSS COUPLED CURRENT TRANSFORMER
CS	- CIRCUIT BREAKER CONTROL SWITCH
CT	- CURRENT TRANSFORMER
DCA	- DC AMMETER
DCV	- DC VOLTMETER
DMD	- DIGITAL METERING DISPLAY
E	- EMERGENCY SOURCE
ECS	- ENGINE CONTROL SWITCH
ESPB	- EMERGENCY STOP PUSHBUTTON
F	- FUSE
FT	- FLEXITEST SWITCHES
GAL	- GENERATOR AVAILABLE LIGHT
GEN	- GENERATOR
ICV	- INCOMING AC VOLTMETER
IFM	- INCOMING FREQUENCY METER
LTS	- LAMP TEST PUSHBUTTON
MPU	- MAGNETIC PICK-UP
N	- NORMAL SOURCE
O	- INDICATING LIGHT C.B. OPEN
PT	- POTENTIAL TRANSFORMER
S1	- SOURCE 1
S2	- SOURCE 2
SCS	- SYSTEM CONTROL SWITCH
SHTC	- SHUNT TRIP COIL
SIL	- ALARM SILENCE PUSHBUTTON
SS	- SYNCHRONIZING SWITCH
STB	- SHORTING TERMINAL BOARD
SYNC	- SYNCHROSCOPE
TS	- TEMPERATURE SCANNER
VAR	- VOLTAGE ADJUST RHEOSTAT
WRE	- WARNING RESET PUSHBUTTON
WTD	- WATT TRANSDUCER

NOTE:

1. NOT ALL SYMBOLS, ABBREVIATIONS AND LINE DESIGNATIONS ARE NECESSARILY USED ON THIS PROJECT.

POWER DISTRIBUTION COMMUNICATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH CIRCUIT, PANELBOARD 208Y/120V OR 240/120V REFER TO PANELBOARD SCHEDULE		TELEPHONE OUTLET
	EXISTING BRANCH CIRCUIT, PANELBOARD 208Y/120V OR 240/120V, REFER TO PANELBOARD SCHEDULE		TELEPHONE OUTLET IN FLUSH FLOOR BOX
	BRANCH CIRCUIT, PANELBOARD 480/277V REFER TO PANELBOARD SCHEDULE		COMPUTER/DATA COMMUNICATION OUTLET, DESIGNATION REFERS TO DATA COMMUNICATIONS WIRING SCHEDULE
	DISTRIBUTION PANELBOARD, 1200A MAX REFER TO PANELBOARD SCHEDULE		COMPUTER/DATA COMMUNICATION OUTLET, IN FLUSH FLOOR BOX, DESIGNATION REFERS TO DATA COMMUNICATIONS WIRING SCHEDULE
	DISTRIBUTION PANELBOARD, 800A MAX REFER TO PANELBOARD SCHEDULE		WALL MOUNTED CABLE TELEVISION SYSTEM OUTLET
	MOTOR CONTROL CENTER SECTION		CEILING MOUNTED CABLE TELEVISION SYSTEM OUTLET
	3-45 KVA TRANSFORMER		TELEPHONE SWITCH
	75-225 KVA TRANSFORMER		COMPUTER/DATA COMMUNICATIONS EQUIPMENT RACK
	TRANSFORMER 480-208Y/120V, 500 KVA SIZE SHOWN, DESIGNATION REFERS TO TRANSFORMER SCHEDULE		REMOTE TELEPHONE RINGER / BUZZER
	SWITCHBOARD SECTION, (800-2000AMP SIZE SHOWN)		CABLE TV TAP
	2500 AMP SWITCHBOARD SECTION		CABLE TV SPLITTER
	3000 AMP SWITCHBOARD SECTION		VIDEO OUTLET
	4000 AMP SWITCHBOARD SECTION		

LINE TYPES

SYMBOL	DESCRIPTION
	EXISTING WORK
	REMOVAL WORK
	NEW WORK

ANSI STANDARD DEVICE FUNCTION NUMBERS

2	- TIME-DELAY STARTING OR CLOSING RELAY
4	- MASTER CONTACTOR
12	- OVER-SPEED DEVICE
13	- SYNCHRONOUS-SPEED DEVICE
14	- UNDER-SPEED DEVICE
15	- SPEED OR FREQUENCY MATCHING DEVICE
21	- DISTANCE RELAY
25	- SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE
27	- UNDERVOLTAGE RELAY
29	- ISOLATING CONTACTOR
32	- DIRECTIONAL POWER RELAY
40	- FIELD RELAY
42	- RUNNING CIRCUIT BREAKER
46	- REVERSE-PHASE OR PHASE-BALANCE CURRENT RELAY
47	- PHASE-SEQUENCE VOLTAGE RELAY
47N	- PHASE BALANCE RELAY
50	- INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE RELAY
51	- AC TIME OVERCURRENT RELAY
51N	- NEUTRAL TIME OVERCURRENT
51V	- TIME OVERCURRENT WITH VOLTAGE CONTROL
52	- AC CIRCUIT BREAKER
59	- OVERVOLTAGE RELAY
59G	- OVERVOLTAGE GROUND RELAY
59I	- PEAK OVERVOLTAGE
59N	- GROUND FAULT OVERVOLTAGE RELAY
60	- VOLTAGE OR CURRENT BALANCE RELAY
62	- TIME-DELAY STOPPING OR OPENING RELAY
64	- GROUND PROTECTIVE RELAY
65	- GOVERNOR
67	- AC DIRECTIONAL OVERCURRENT RELAY
74	- ALARM RELAY
79	- AC RECLOSING RELAY
81	- FREQUENCY RELAY
81o/u	- UNDERFREQUENCY / OVERFREQUENCY RELAY
86	- LOCKOUT RELAY, MANUALLY RESET
87	- DIFFERENTIAL PROTECTIVE RELAY
87G	- EARTH CURRENT DIFFERENTIAL PROTECTION
89	- LINE SWITCH

VA WESTERN NEW YORK HEALTHCARE SYSTEM  
222 RICHMOND AVENUE  
BATAVIA, NEW YORK 14020



Consultant

stamp

Architect / Engineer

CARDIOLOGY MANAGER

DATE

ENGINEERING MANAGER

DATE

INFECTION CONTROL

DATE

CARELINE MANAGER

DATE

SAFETY OFFICER

DATE

CHIEF OF STAFF

DATE

Drawing Title  
ELECTRICAL LEGEND &  
ABBREVIATIONS

Project Title  
VA BATAVIA EMERGENCY  
POWER UPGRADES

Date  
June 6, 2014  
Station No.  
528-13-201

Building Number  
1

Checked  
EJS

Drawn  
RS

Location  
V.A.M.C. BATAVIA, NEW YORK

13-201-E001

