SYMBOL LIST

- BRANCH CIRCUIT OR FEEDER CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
- LIGHTING CIRCUIT UNDERGROUND
- H1/1 — HOMERUN TO PANELBOARD H1 CIRCUITS #1
- LIGHTING OR POWER PANEL
- PANELBOARD DESIGNATIONS: H2 — PANEL NUMBER-LOOP 1 OR 2; "H" 480/277V
- GROUND – SYSTEM AND/OR EQUIPMENT
- CIRCUIT BREAKER
- HH-1 — HAND HOLE
- PHOTOELECTRIC CELL
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- 1 — KEY DETAIL
- PLAN DETAIL — X / X X: LETTER IDENTIFICATION; DRAWING NUMBER WHERE DETAIL IS TARGETED; DRAWING NUMBER WHERE DETAIL IS LOCATED
- RE — POLE TOP FIXTURE TO BE REMOVED
- RE — ARM-MOUNTED FIXTURE TO BE REMOVED
- 1 — BUILDING NUMBER

BUILDING LEGEND

1	CLINICAL BUILDING	58	PSYCHIATRIC
2	REHABILITATION	60	SEWAGE PUMP HOUSE
3	AMBULATORY CARE	68	BOILER PLANT STACK
4	AMBULATORY CARE	70	MALE/FEMALE TOILETS
5	RECREATION	89	CHLORINATOR
6	CANTEEN / PATIENT CARE / DENTAL	90	TRANSFORMER
7	GERIATRICS	94	TRANSFORMER
8	MENTAL HEALTH CLINICS	96	SEWAGE PUMP HOUSE
9	ACUTE MEDICAL / RESPIRATORY CARE	97	CHLORINE STORAGE
10	ADMINISTRATION / SOCIAL SERVICE	98	CONTROL HOUSE/SLUDGE DIGESTER
11	ADMINISTRATION	99	SLUDGE BEDS
12	FIRE DEPARTMEN	100	SLUDGE BEDS
13	M&R SHOP WARENHOUSE	114	400,000 GAL. WATER TANK
14	BOILER PLANT	118	APHITHEATER UTILITY
15	LINEN DISTRIBUTION	119	APHITHEATER STAGE
16	ADMINISTRATION / DAY CARE	122	PICNIC SHELTER
18	APARTMENT QUARTERS	123	GOLF SHELTER
19	DUPLEX QUARTERS	124	INCINERATOR / PROPANE TANKS
21	FLAGPOLE	126	PATIO – BUILDING 57
22	SLUDGE DIGESTER	127	PATIO – BUILDING 58
23	TRANSPORTATION	129	EMERGENCY GENERATOR – BUILDING 1
24	WATER TANK	130	EMERGENCY GENERATOR – BUILDING 2, 9
25	HOUSEKEEPING QUARTERS	131	EMERGENCY GENERATOR – BUILDING 3, 4, 5
26	HOUSEKEEPING QUARTERS	132	EMERGENCY GENERATOR – BUILDING 6, 7, 8
34	STORAGE BARN	133	EMERGENCY GENERATOR – BUILDING 54
47	GREENHOUSE	134	EMERGENCY GENERATOR – BUILDING 14
49	GROUNDS EQUIPMENT SHED	135	NURSING HOME CARE
50	12 BAY GARAGE	136	CHILLER PLANT
53	VACANT	139	EMERGENCY GENERATOR – BUILDING 55
54	DIETETICS	140	EMERGENCY GENERATOR – BUILDING 57, 58
55	VACANT	141	SEWAGE TREATMENT PLANT
56	PSYCHIATRIC	142	EMERGENCY GENERATOR – BUILDING 10, 11 & 12
57	DOMICILIARY	143	PSYCHIATRIC BUILDING

ABBREVIATIONS

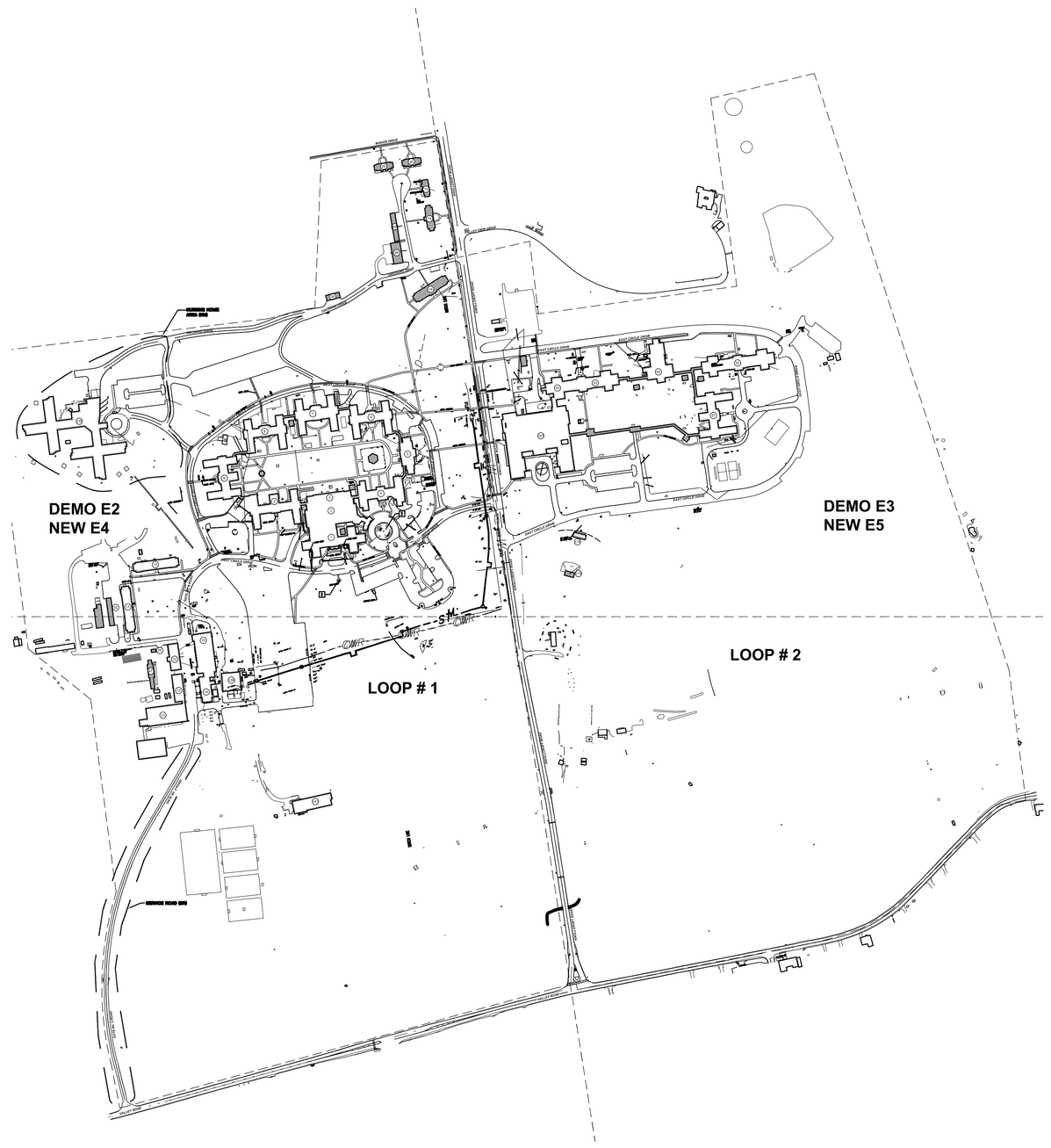
A, AMP	AMPERE
AIC	AMPS INTERRUPTING CURRENT
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATELY
AT	AMPERE TRIP
A/C	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C, CDT	CONDUIT
CKT BKR	CIRCUIT BREAKER
CKT(S)	CIRCUIT(S)
CL	CLOSET
COTR	CONTRACTING OFFICER
DISC	DISCONNECT
DWG(S)	DRAWING(S)
EC	EMPTY CONDUIT
ELECT	ELECTRIC, ELECTRICAL
EM	EMERGENCY
ENT	ENTRANCE
EQUIP	EQUIPMENT
E, EX, EXIST	EXISTING
FDR	FEEDER
FIXT	FIXTURE
G, GRD	GROUND
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR
GOVT.	GOVERNMENT
J.BOX	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MIN	MINIMUM
MH	METAL HALIDE
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
N/O	NORMALLY OPEN
NTS	NOT TO SCALE
PERM	PERMANENT
PNL	PANEL
PWR	POWER
RE	REMOVE EXISTING
RECEPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SPEC	SPECIFICATION
SW	SWITCH
SYS	SYSTEM
TEL	TELEPHONE
TEMP	TEMPORARY
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UOR	UNLESS OTHERWISE REQUIRED
V	VOLT
VA	VETERANS AFFAIRS
VAC	VOLTS ALTERNATING CURRENT
W	WATT
WP	WEATHER PROOF
W/	WITH
X	EXISTING EQUIPMENT TO REMAIN
XR	EXISTING EQUIPMENT TO BE RELOCATED
XL	NEW LOCATION OF RELOCATED EXISTING EQUIPMENT

GENERAL NOTES:

1. WHERE CODES, RULES AND REGULATIONS INDICATED IN THE GENERAL ELECTRICAL NOTES ARE AT VARIANCE WITH THE PLANS AND NOTES, SAID CODES, RULES AND REGULATIONS, ETC. SHALL TAKE PRECEDENCE OVER THE PLANS AND NOTES. ALL MATERIALS SHALL BE NEW UNLESS NOTED EXISTING.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES AND/OR REGULATIONS AND PAYING FOR AND OBTAINING ALL NECESSARY AND REQUIRED INSPECTIONS, APPROVALS AND PERMITS NECESSARY TO PERFORM ALL WORK AND SERVICES HEREIN NOTED OR INDICATED ON THE DRAWINGS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND SHALL REPORT ANY DISCREPANCIES TO THE CONTRACTING OFFICER TECHNICAL REPRESENTATIVE (COTR) PRIOR TO STARTING CONSTRUCTION. COMMENCEMENT OF THE WORK BY THE CONTRACTOR SHALL IMPLY HIS ACCEPTANCE OF ALL EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF THE COTR.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF WORK.
6. ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DUST, NOISE OR DISTURBANCE TO ADJACENT SITES OR BUILDINGS.
7. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION SITE. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF PREMISES. FIRE EXITS AT NO TIME SHALL BE BLOCKED.
8. DETAILS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYP." IMPLY ALL CONDITIONS TREATED SIMILARLY.
9. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE AS IF INCLUDED AND INDICATED ON THE DRAWINGS.
10. THE CONTRACTOR MUST FULLY FAMILIARIZE HIMSELF OF THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR UNDER WHICH THE WORK WILL BE PERFORMED AND COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE WORK IN PLACE. FAILURE TO DO SO WILL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO FURNISH ALL LABOR AND MATERIAL NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT DOCUMENTS AND TO COMPLETE THE CONTEMPLATED WORK FOR THE CONSIDERATION SET FORTH IN HIS BID. EACH CONTRACTOR, IN THE CARRYING OUT OF HIS WORK, SHALL EMPLOY SUCH CONSTRUCTION METHODS OR MEANS THAT WILL NOT CAUSE ANY INTERRUPTIONS OR INTERFERENCE WITHIN THE WORK OF ANY OTHER TRADES.
11. THE CONSTRUCTION AREA SHALL BE THOROUGHLY CLEANED PRIOR, DURING AND AFTER THE CONSTRUCTION AND MAINTAINED NEAT AND TIDY AT ALL TIMES.
12. THE APPROVAL OF SUBMITTALS BY THE ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED AS A COMPLETE CHECK, BUT WILL INDICATE ONLY THAT THE GENERAL METHOD OF CONSTRUCTION, MATERIALS, DETAILING AND OTHER INFORMATION ARE SATISFACTORY. APPROVAL WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR, WHICH MAY EXIST, AS THE CONTRACTOR IS RESPONSIBLE FOR THE DIMENSIONS AND DESIGN OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK.
13. SUBMITTALS SHALL BE IN COMPLIANCE WITH CONTRACT REQUIREMENTS AND ACTUAL FIELD CONDITIONS. INCOMPLETE OR OTHERWISE SUBSTANDARD SUBMITTALS SHALL NOT BE REVIEWED AND WILL BE RETURNED TO THE CONTRACTOR. ANY DELAYS IN COMPLETION OF WORK ON SUCH ACCOUNT SHALL NOT BE EXCUSED.
14. FIELD VERIFY CONSTRUCTION AND INSTALLATION REQUIREMENTS.
15. REPRODUCED CONTRACT DRAWINGS AND GENERAL WEBSITE INFORMATION OF A VENDOR WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
16. IN CASE OF DISCREPANCIES BETWEEN SPECIFICATIONS AND CONTRACT DRAWINGS, THE SPECIFICATIONS ALONG WITH APPLICABLE CODES AND STANDARDS SHALL OVERRULE THE DRAWINGS.
17. DISPOSE OF DEMOLITION MATERIAL AND/OR OTHER REFUSE, SCRAP, DEBRIS AND DIRT OFF SITE BY LEGAL MEANS AS PER LOCAL, FEDERAL REQUIREMENTS UNDER THE DIRECTION OF THE COTR.
18. UNLESS STATED OTHERWISE ALL WORK SHOWN IN CONTRACT DOCUMENTS ARE TO BE PERFORMED BY THE CONTRACTOR.
19. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E-6 FOR LIGHTING FIXTURE SYMBOLS.

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH FEDERAL VA STANDARDS AND DESIGN CRITERIA, THE NATIONAL ELECTRICAL CODE, AND ANY APPLICABLE LOCAL CODES, LAWS AND REGULATIONS.
2. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND /OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.
3. CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS SERVICE ON SERVICE FEEDERS SERVING THE AREAS AFFECTED DURING ALL THE PERIOD THE AREA IS UNDER CONSTRUCTION. NO OUTAGES WILL BE PERMITTED IN THESE AREAS DUE TO THE CONSTRUCTION PHASE EXCEPT WITH WRITTEN PERMISSION OF THE COTR. ALL WORK REQUIRING TEMPORARY SHUTDOWN SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE GOVERNMENT. ANY APPROVAL FOR SHUTDOWNS SHOULD BE OBTAINED FROM THE COTR IN WRITING 48 (FORTY EIGHT) HOURS IN ADVANCE. EXISTING LIGHTING FIXTURES AND CIRCUITS SHALL REMAIN THROUGHOUT CONSTRUCTION, AND NOT BE REMOVED UNTIL NEW LIGHTING FIXTURES ARE ENERGIZED.
5. ALL CONDUIT RUNS IN THIS CONTRACT ARE DIAGRAMMATIC. LOCATION OF EQUIPMENT AND RUNS MAY VARY DUE TO PHYSICAL CONDITIONS. THE WORK SHALL INCLUDE ALL REQUIRED OUTLET & JUNCTION BOXES TO COMPLETE THE CONDUIT INSTALLATION. CONTRACTOR SHALL INSTALL EQUIPMENT AND CONDUITS IN A MANNER TO MINIMIZE ANY INTERFERENCE WITH OTHER CONTRACTS OR TRADES.
6. UNLESS OTHERWISE NOTED, PULL AND JUNCTION BOXES WHERE INDICATED ON DRAWINGS, SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE THEM AS FIELD CONDITIONS DICTATE. ADDITIONAL PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE PROVISIONS OR FIELD CONDITIONS.
7. CONTRACTOR SHALL INSTALL ALL WIRING AND CONDUIT, JUNCTION/PULL BOXES CONCEALED IN THE WALL OR ABOVE CEILING. SWITCHES SHALL BE RECESSED IN THE WALL.
8. MINIMUM SIZE OF RACEWAY FOR POWER AND LIGHTING CIRCUITS SHALL BE 3/4" EMT CONDUIT, UNLESS OTHERWISE NOTED. RGS CONDUIT SHALL BE USED FOR OUTSIDE INSTALLATION WHERE EXPOSED.
9. MINIMUM WIRE SIZE FOR EXTERIOR LIGHTING CIRCUITS SHALL BE #10 AWG, COPPER, 600V INSULATION TYPE XLPE (RHW), UNLESS OTHERWISE NOTED. PROVIDED DUAL RATED CONDUCTORS FOR EXTERIOR LIGHTING CIRCUITS AT LOCATIONS OF BUILDING ENTRY.
10. CONTRACTOR IS RESPONSIBLE FOR ALL LUG KITS/COPPER BUS DETAILS AS REQUIRED FOR OVER SIZED FEEDERS. LUGS SHALL BE COPPER-PRESSURE PLATE TYPE, UP TO NO. 6 & COMPRESSION TYPE FOR LARGER SIZE CONDUCTOR.
11. THE EXPOSED NONCURRENT-CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT & RACEWAYS SHALL BE GROUNDED. THE CONTRACTOR SHALL ENSURE CONTINUITY OF THE GROUNDING CIRCUIT THROUGH THIS GROUNDING CONDUCTOR FROM THE SUPPLYING PANELBOARD GROUNDING BUS TO THE LOAD GROUND TERMINAL. THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
12. CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH EXISTING EQUIPMENT IN THE FIELD.
13. MAINTAIN EXISTING FIRE ALARM, DETECTION AND COMMUNICATION SYSTEMS OPERATIONAL AND IN SERVICE.
14. PROVIDE COMPLETE PANELBOARD DIRECTORY IN NEW PANELBOARDS. UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT NEW CIRCUITING IN EXISTING PANELBOARDS AFFECTED BY THIS ALTERATION.
15. ABANDONED OUTLETS SHALL BE REMOVED COMPLETE WITH ALL WIRING AND CONDUITS. SAME SHALL BE DISCONNECTED, CUT AND DEAD-ENDED IN AN APPROVED MANNER.
16. UPON COMPLETION OF ALL ELECTRICAL WORK, ADJUST AND TEST ELECTRICAL EQUIPMENT, ALL CIRCUITS, OUTLETS, SWITCHES, DISCONNECTS, LIGHTING CONTROL SYSTEMS, AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATLY REPAIRED OR REPLACED WITH NEW AND THAT PORTION OF THE SYSTEM SHALL BE RE-TESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE GOVERNMENT.
17. SUBMIT ALL SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING OF ANY EQUIPMENT.
18. AFTER COMPLETION OF WORK, CLEAN UP ALL RESULTANT DEBRIS AND REMOVE FROM THE SITE.



SITE KEY — NOT TO SCALE — 1 / E1 E1

STAUNTON CHOW
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Revisions | Date

Key Plan

Drawing Title: ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES	Project Title: REPLACE SITE LIGHTING AT VA LYONS CAMPUS		Date: 23 MARCH, 2010
			Project No.: 561A4-08-103
Approved : Division Chief	Building Number	Checked: IB / Drawn: CDC	Drawing No.: E1
Approved : Service Director	Location: VA Lyons Campus, NJHCS, Lyons, NJ		Sht. 23 Of 29

Office of Facilities

Department of Veterans Affairs

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