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AMP	AMP
AFB	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALS	AMPS INTERRUPTING CAPACITY
AUX	AUXILIARY POWER UNIT
ATC	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
C	CONDUIT
cd	CANDELA
CKT	CIRCUIT
CU	COPPER
D	DEEP
DACT	DIGITAL ALARM COMMUNICATOR TERMINAL
DD	DEDICATED CIRCUIT
EDS	EQUIPMENT GROUNDING
EM	EMERGENCY POWER SUPPLY SYSTEM
EX., EXIST	EXISTING
EXT	EXTERIOR
FAC	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
FME	FLEXIBLE METAL CONDUIT
GC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
H	HIGH
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
KW	KILOWATT
MBJ	MAIN BONDING JUMPER
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
ML	MANHOLE
MLO	MAIN LUGS ONLY
MFC	MAIN TELECOMMUNICATIONS PANEL
MP	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OC	ON CENTER
PC	PHOTOCELL
R	RELOCATED
TCL	TOTAL CONNECTED LOAD
TDL	TOTAL DEMAND LOAD
TVSS	TRANSIENT VOLTAGE SURGE & SPIKE
TP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
WP	WEATHERPROOF
XFMR	TRANSFORMER

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S SINGLE POLE SWITCH, MOUNTED 44" AFF
MODIFIERS FOR SWITCHES:

3 = THREE WAY
4 = FOUR WAY
DM = DIMMER SWITCH
OC = OCCUPANT SENSOR

⦿ 120V DUPLEX RECEPTACLE, MOUNTED 18" AFF.
MODIFIERS FOR RECEPTACLES:
GFI = GROUND FAULT CIRCUIT INTERRUPTER.
WP = WEATHERPROOF

⦿ 120V SIMPLEX RECEPTACLE, MOUNTED 18" AFF.

⦿ 120V QUAD RECEPTACLE, MOUNTED 18" AFF.

⦿ 220V DUPLEX RECEPTACLE, MOUNTED 18" AFF.

▽ TELCO OUTLET MOUNTED 18" AFF

▽ DATA/TELCO OUTLET MOUNTED 18" AFF

□ PHOTOELECTRIC CELL

□ JUNCTION BOX

□ FUSED DISCONNECT

□ UNFUSED DISCONNECT

⦿ FUEL PUMP

WIRING SYSTEM-BRANCH OR FEEDER CIRCUIT

----- WIRING SYSTEM-SWITCHED BRANCH OR FEEDER CIRCUIT

BRANCH OR FEEDER CIRCUIT HOMERUN TO PANELBOARD, SWITCHBOARD, MOTOR CONTROL CENTER, ETC. SUBSCRIPT DENOTES PANELBOARD, SWITCHBOARD, MOTOR CONTROL CENTER, ETC. AND OVERCURRENT PROTECTION DEVICE NUMBER.

—— HOMERUN - 120V OR 277V

—— HOMERUN - 208V OR 480V

⦿ KIRK KEY INTERLOCK

—— UNDERGROUND ELECTRICAL DUCT

— E — EXISTING ELECTRICAL DISTRIBUTION

— EPSS — EPSS DISTRIBUTION

—— UNDERGROUND TELCO/IT DUCT

⦿ BUILDING ID

⦿ GEAR ID

----- GROUNDING CONDUCTOR, 2 AWG CU, UNO

⦿ GROUND ROD, 3/4" x 10' COPPER CLAD STEEL

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- WIRING SYSTEM-BRANCH OR FEEDER CIRCUIT
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SECTION 01 00 00 ARTICLE 1.6 PARAGRAPH G, PHASING:
TO INSURE SUCH EXECUTIONS, CONTRACTOR SHALL FURNISH THE COTR WITH A SCHEDULE OF THE SEQUENTIAL PHASING DATES ON WHICH THE CONTRACTOR INTENDS TO ACCOMPLISH WORK IN EACH SPECIFIC AREA OF SITE, BUILDING, OR PORTION THEREOF. PHASES MAY RUN IN PARALLEL, AS MUTUALLY AGREED. IN ADDITION, CONTRACTOR SHALL NOTIFY THE COTR OF TWO WORKS IN ADVANCE OF THE PROPOSED DATE OF STARTING WORK IN EACH SPECIFIC AREA OF SITE, BUILDING OR PORTION THEREOF. ARRANGE SUCH PHASING DATES TO INSURE ACCOMPLISHMENT OF THIS WORK IN SUCCESSIVE PHASES MUTUALLY AGREEABLE TO MEDICAL CENTER DIRECTOR, COTR AND CONTRACTOR, AS FOLLOWS:

PHASE 1

1. SUBMIT SHOP DRAWINGS, AFTER APPROVALS, ORDER ALL MATERIAL AND EQUIPMENT.

2. BEGIN SITE PREPARATION AND CONSTRUCTION OF THE GENERATOR AND FUEL YARD AND FUELING TURNAROUND AREA.

3. BEGIN CONSTRUCTION OF EXTENSIONS TO MV MANHOLE AND DUCT SYSTEM. PROVIDE CONCRETE PADS, CONDUITS TO AND FROM PADS, AND ALL NEW CONDUITS.

PHASE 2

1. CONSTRUCT EMERGENCY GENERATOR AND PARALLELING SWITCHGEAR ENCLOSURE PACKAGES. BRING TO SITE AND INSTALL WHEN APPLICABLE PORTIONS OF SITE PREPARATION ARE COMPLETED.

PHASE 3

1. INSTALL NEW MV EMERGENCY GENERATOR PARALLELING SWITCHGEAR (EGPS). INSTALL MV CABLES BETWEEN EGPS AND GENERATORS AND NORMAL SUPPLY MV SWITCHGEAR. RENOVATE NORMAL MV SWITCHGEAR CONTROLS TO INTEGRATE NEW EGPS WITH EXISTING MV SYSTEM FOR FULL CAMPUS STANDBY FUNCTIONALITY.

PHASE 4

1. INSTALL ALL REMAINING MEDIUM VOLTAGE CABLE. CABLES TO TRANSFORMERS SHOULD BE PULLED BUT NOT ENERGIZED AT THIS TIME.

PHASE 5

1. COMMISSION THE GENERATORS, FUEL SYSTEM, AND INTEGRATED NORMAL AND STANDBY/EMERGENCY MV SWITCHGEAR SYSTEM. UPON COMPLETION OF THIS PHASE ALL TESTING RELATED TO THESE COMPONENTS SHALL BE COMPLETE AND ACCEPTED.

PHASE 6

1. IN THE ORDER AS AGREED AND WITHOUT DISRUPTION OF THE AVAILABILITY OF EMERGENCY POWER, AT EACH OF BUILDINGS 100, 138, 139, 71, 75, 79, AND 81, PERFORM THE FOLLOWING:

A) PROVIDE A BACKUP EMERGENCY POWER SUPPLY BY MEANS OF A CONTRACTOR-SUPPLIED PORTABLE GENERATOR, COMPLETE WITH 96 HOURS FUEL AND AUTOMATED CONTROLS SUITABLE FOR TEMPORARY GENERATOR CONTROL BY EXISTING SERVED AT'S

B) DEMONSTRATE EXISTING EMERGENCY GENERATOR AND APPURTENANCES AS SHOWN IN THE DRAWINGS

C) INSTALL TRANSFORMER UNIT SUBSTATION AND APPURTENANCES AS SHOWN ON THE DRAWINGS

D) TEST AND COMMISSION CUT-OVER TO NEW MV-BASED EPSS.

GENERATOR REMOVAL WORK SHALL BE PERFORMED ONE BUILDING AT A TIME. NO MORE THAN A SINGLE BUILDING SHALL SIMULTANEOUSLY BE ON TEMPORARY GENERATOR EMERGENCY POWER AVAILABILITY.

WORK ITEMS NOT LISTED IN THIS PHASING SEQUENCE (SUCH AS REPLACEMENT OF BUILDING 14 ATS OR RENOVATION OF BUILDING 74) SHALL NEVERTHELESS BE SCHEDULED IN ADVANCE AND PERFORMED ON THE TIMETABLE AS MUTUALLY AGREED.

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SECTION 01 00 00 ARTICLE 1.6 PARAGRAPH H:
BUILDING(S) WILL BE OCCUPIED DURING PERFORMANCE OF WORK; BUT IMMEDIATE AREAS OF ALTERATIONS WILL BE VACATED.

1. CONTRACTOR SHALL TAKE ALL MEASURES AND PROVIDE ALL MATERIAL NECESSARY FOR PROTECTING EXISTING EQUIPMENT AND PROPERTY IN AFFECTED AREAS OF CONSTRUCTION AGAINST DUST AND DEBRIS, SO THAT EQUIPMENT AND AFFECTED AREAS TO BE USED IN THE MEDICAL CENTER'S OPERATION WILL NOT BE HINDERED.

CONTRACTOR SHALL PERMIT ACCESS TO DEPARTMENT OF VETERANS AFFAIRS PERSONNEL AND PATIENTS THROUGH OTHER CONSTRUCTION AREAS WHICH SERVE AS ROUTES OF ACCESS TO SUCH AFFECTED AREAS AND EQUIPMENT. COORDINATE ALTERATION WORK IN AREAS OCCUPIED BY DEPARTMENT OF VETERANS AFFAIRS SO THAT MEDICAL CENTER OPERATIONS WILL CONTINUE DURING THE CONSTRUCTION PERIOD.

SECTION 01 00 00 ARTICLE 1.6 PARAGRAPH K:
UTILITIES SERVICES: MAINTAIN EXISTING UTILITY SERVICES FOR MEDICAL CENTER AT ALL TIMES. PROVIDE TEMPORARY FACILITIES, LABOR, MATERIALS, EQUIPMENT, CONNECTIONS, AND UTILITIES TO ASSURE UNINTERRUPTED SERVICES. WHERE NECESSARY TO CUT EXISTING WATER, STEAM, GASES, SEWER OR AIR PIPES, OR CONDUITS, WIRES, CABLES, ETC. OF UTILITY SERVICES OR OF FIRE PROTECTION SYSTEMS AND COMMUNICATIONS SYSTEMS (INCLUDING TELEPHONE), THEY SHALL BE CUT AND CAPPED AT SUITABLE PLACES WHERE SHOWN, OR, IN ABSENCE OF SUCH INDICATION, WHERE DIRECTED BY COTR.

1. NO UTILITY SERVICE (SUCH AS WATER, GAS, STEAM, SEWERS OR ELECTRICITY, OR FIRE PROTECTION SYSTEMS AND COMMUNICATIONS SYSTEMS) MAY BE INTERRUPTED WITHOUT PRIOR APPROVAL OF COTR. ELECTRICAL WORK SHALL BE ACCOMPLISHED WITH ALL AFFECTED CIRCUITS OR EQUIPMENT DE-ENERGIZED. WHEN AN ELECTRICAL OUTAGE CANNOT BE ACCOMPLISHED, WORK ON ANY ENERGIZED CIRCUITS OR EQUIPMENT SHALL NOT COMMENCE WITHOUT THE MEDICAL CENTER DIRECTOR'S PRIOR KNOWLEDGE AND WRITTEN APPROVAL. REFER TO SPECIFICATION SECTIONS 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS FOR ADDITIONAL REQUIREMENTS.

2. CONTRACTOR SHALL SUBMIT A REQUEST TO INTERRUPT ANY SUCH SERVICES TO COTR IN WRITING, AT LEAST 96 HOURS IN ADVANCE OF PROPOSED INTERRUPTION, REQUEST SUCH STATE REASON, DATE, EXACT TIME OF, AND APPROXIMATE DURATION OF SUCH INTERRUPTION.

3. CONTRACTOR WILL BE ADVISED (IN WRITING) OF APPROVAL OF REQUEST, OR OF WHICH OTHER DATE AND/OR TIME SUCH INTERRUPTION WILL CAUSE LEAST INCONVENIENCE TO OPERATIONS OF MEDICAL CENTER. INTERRUPTION TIME APPROVED BY MEDICAL CENTER MAY OCCUR AT OTHER THAN CONTRACTOR'S NORMAL WORKING HOURS.

4. MAJOR INTERRUPTIONS OF ANY SYSTEM MUST BE REQUESTED, IN WRITING, AT LEAST 15 CALENDAR DAYS PRIOR TO THE DESIRED TIME AND SHALL BE PERFORMED AS DIRECTED BY THE COTR.

5. IN CASE OF A CONTRACT CONSTRUCTION EMERGENCY, SERVICE WILL BE INTERRUPTED ON APPROVAL OF COTR. SUCH APPROVAL WILL BE CONFIRMED IN WRITING AS SOON AS PRACTICAL.

6. WHENEVER IT IS REQUIRED THAT A CONNECTION FEE BE PAID TO A PUBLIC UTILITY PROVIDER FOR NEW PERMANENT SERVICE TO THE CONSTRUCTION PROJECT, FOR SUCH ITEMS AS WATER, SEWER, ELECTRICITY, GAS OR STEAM, PAYMENT OF SUCH FEE SHALL BE THE RESPONSIBILITY OF THE GOVERNMENT AND NOT THE CONTRACTOR.

SYMBOL**	LABEL	# OF LAMPS	TYPE OF LAMP	# OF BALLASTS	WATTS/ FIXTURE	VOLTAGE	DESCRIPTION
	B	1	100W PSMH	1	129	120	EXTERIOR BUILDING MOUNTED PULSE START METAL HALIDE WALL PACK LIGHT FIXTURE WITH INTEGRAL PHOTOCCELL CONTROL
	C	2	32W T8	1	62	120	4" INDUSTRIAL FLUORESCENT STRIP LIGHT FIXTURE WITH WIRE GUARD
	EB	2	---	---	1.5	120	EMERGENCY DOUBLE HEAD LIGHT FIXTURE WITH BATTERY BACKUP
	EXC	2	LED	---	3.3	120	LED EMERGENCY EXIT SIGN/LIGHTS COMBO WITH DIRECTIONAL INDICATOR AND BATTERY BACKUP

* - CATALOG PART NUMBERS SHOWN ARE FOR DESCRIPTIVE AND QUALITY STANDARDS ONLY. NOT TO BE USED FOR ORDERING WITHOUT VERIFICATION. ENGINEER SHALL NOT BE RESPONSIBLE FOR MISMATCHED OR INACCUATE PART NUMBERS.

** - EM = EMERGENCY BATTERY BACK-UP (USE TWO LAMP EMERGENCY BALLAST WHEN ONLY A SINGLE FIXTURE IS VISIBLE)

 NL = NIGHT LIGHT

 QR = QUARTZ RESTRIKE

*** - NOTE: ALL FLUORESCENT LIGHT FIXTURES MUST HAVE INDIVIDUAL DISCONNECTING MEANS LOCATED AT EACH FIXTURE.

**** - CONTRACTOR TO PROVIDE LIGHT FIXTURE SHIELDS AS REQUIRED TO PREVENT LIGHT POLLUTION OVER PROPERTY LINE.

[illegible]