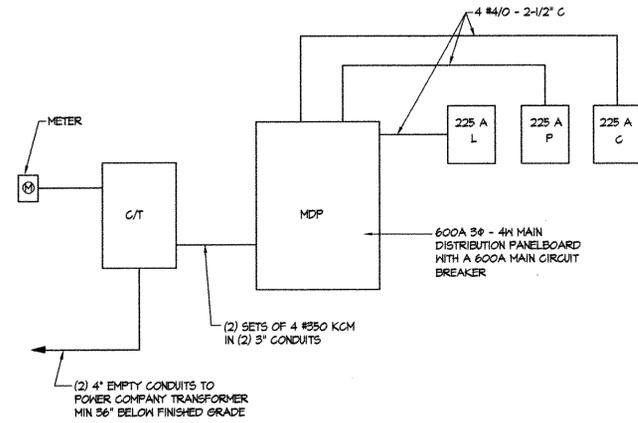


PANELBOARD SCHEDULE											
PANEL DESIG	CABINET TYPE	PANEL MAINS			BRANCHES				ITEMS SERVED		
		AMPS	VOLTS 1P	PHASE	1P	2P	3P	TRIP		FRAME	
MDP	SURFACE	600	120/208	3				3	225	225	PANELS K, P, AND C
WITH 600A-3P MAIN CIRCUIT BREAKER											
								1	100	30	AIR HANDLING UNIT
L	SURFACE	225	120/208	3	11				20	100	LIGHTING
					2				20	100	REFRIGERATOR & DOOR OPENERS
					3				20	100	RECEPTACLES, MICROWAVE, & DISPOSER
						2			60	100	WATER HEATER
						1			30	100	WATER HEATER
							2		20	100	WATER SOFTENER, BOILER, & EXHAUST FANS
							2		20	100	CONDENSING UNITS
							1		40	100	A/C-2
							1		30	100	A/C-1
							1		20	100	RETURN AIR FAN
C	SURFACE	225	120/208	3	4				30	100	DEDICATED CIRCUITS
									34	20	SPARES
P	SURFACE	225	120/208	3	31				20	100	RECEPTACLES
DOUBLE SECTION											
									21	20	SPARES
									24	100	PROVISIONS

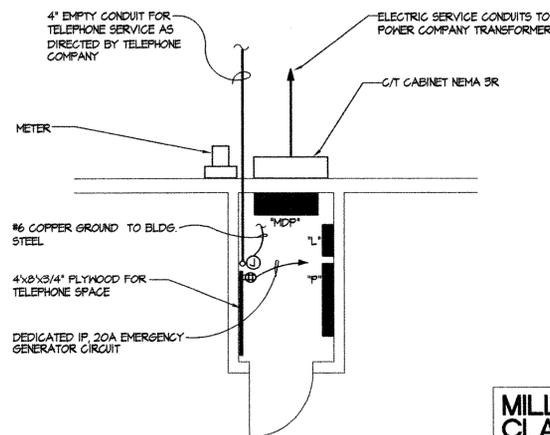
LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	MANUFACTURER'S DESCRIPTION	LAMPS		VOLTAGE	MOUNTING	REMARKS
		NO.	TYPE			
1	LITHONIA #26T-432-A12, 125-120-55B	4	F032 MM T-8	120	RECESSED	
2	LITHONIA #26T-352-A12, 125-120-55B	3	F032 MM T-8	120	RECESSED	
3	LITHONIA #26T-232-A12, 125-120-55B	2	F032 MM T-8	120	RECESSED	
4	LITHONIA #45-232-A12, 125-120-55B	2	F032 MM T-8	120	WALL	ABOVE MIRROR
5	LITHONIA #45-220-A12, 125-120-55B	2	F032 MM T-8	120	WALL	ABOVE MIRROR
6	LITHONIA #C 232 HFF 55B	2	F032 MM T-8	120	SURFACE	STRIP LIGHT
7	LITHONIA #6BIC, LPS	1	T8M, R30	120	RECESSED	
8	HIGH-LITES #EP-CLED2/S SERIES	FURNISHED WITH UNIT		120	UNIVERSAL	SELF POWERED
9	LITHONIA #6ELM2H	FURNISHED WITH UNIT		120	WALL	T-0" A.F.F.
10	ARCH-AREA LTG. #ALH-184-IA-DBE WITH 12" x 2" HIGH DBE POLE	1	250W, MH	120	CONC. BASE	SEE BASE DETAIL, PROVIDE WITH PHOTOCELL
11	LITHONIA #CEN10, 100M	1	100W, MH	120	WALL	SEE ARCH. DWG. FOR MOUNTING HEIGHTS
12	LITHONIA #THN, 100M	1	100W, MH	120	WALL	SEE ARCH. DWG. FOR MOUNTING HEIGHTS
13	LITHONIA #25FF-432-A12, 125-120-55B	4	F032 MM T-8	120	RECESSED	

LIGHTING FIXTURE NOTES:

- ALL FLUORESCENT FIXTURES SHALL HAVE SOLID STATE ELECTRONIC BALLAST & T8 OCTRON LAMPS. SEE SPECIFICATIONS
- SEE ARCHITECTURAL DRAWINGS FOR SECTIONS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.



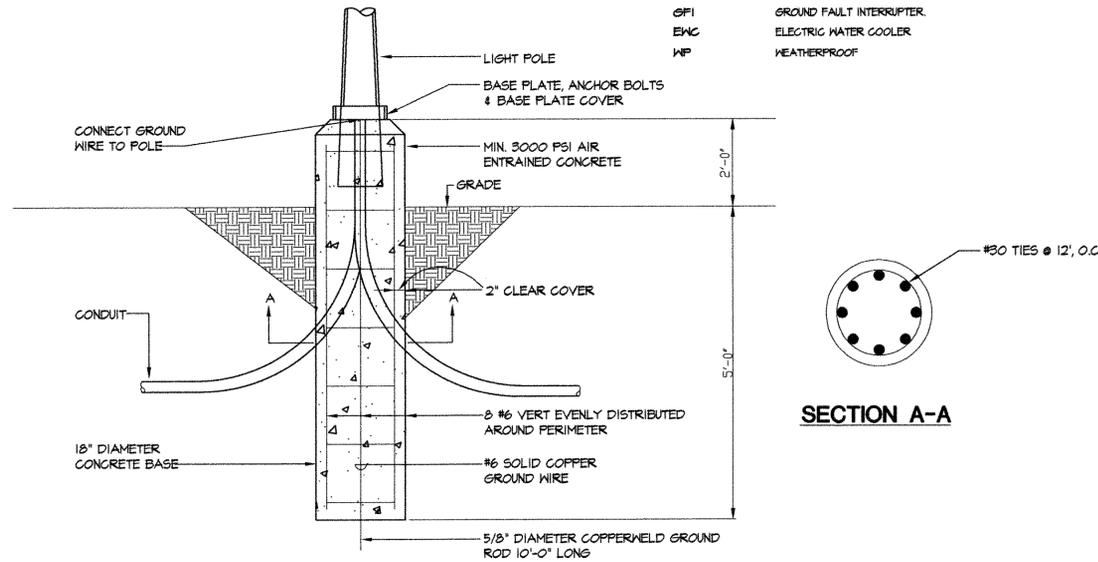
ELECTRICAL RISER DIAGRAM
NO SCALE



ELECTRIC ROOM LAYOUT
SCALE: 1/4" = 1'-0"

- ELECTRICAL GENERAL NOTES:**
- SCOPE:** FURNISH ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND INDICATED ON THE CONTRACT DRAWINGS.
 - APPLICABLE CODES:** THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
 - MATERIALS AND SUBSTITUTIONS:** THE CONTRACTOR SHALL SUBMIT A LIST OF ALL MAJOR EQUIPMENT AND FIXTURES TO THE ARCHITECT FOR REVIEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE PERMISSION OF THE ARCHITECT IN WRITING. ALL EQUIPMENT SHALL BE NEW AND BEAR THE MANUFACTURER'S NAME AND TRADE NAME. ALL EQUIPMENT SHALL BE UL LISTED.
 - FEES:** CONTRACTOR SHALL PAY ALL REQUIRED FEES FOR INSTALLATION OF THE WORK. ALL COORDINATION WITH THE LOCAL POWER AND TELEPHONE COMPANIES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. THE OWNER SHALL PAY ALL UTILITY COMPANY FEES.
 - WORKMANSHIP:** ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. EXPOSED CONDUITS AND/OR CABLES WHERE PERMITTED, SHALL BE RUN PARALLEL AND AT RIGHT ANGLE TO MAJOR BUILDING CONSTRUCTION MEMBERS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EQUIPMENT AND DEVICES WITH THE ARCHITECT AT THE TIME OF INSTALLATION.
 - SCHEDULING OF WORK:** THE CONTRACTOR SHALL ARRANGE WITH THE ARCHITECT FOR SCHEDULING OF WORK.
 - WIRE AND CABLE:** TYPE THN, OR THWN, 600 VOLT A.C., COPPER CONDUCTORS, COLOR CODED, WITH THE MINIMUM SIZE TO BE #12 A.M.S. TYPE "MC" ARMORED CABLE MAY BE USED WHERE PERMITTED BY APPLICABLE CODES.
 - LIGHTING FIXTURES:** AS SPECIFIED ON THE DRAWINGS, COMPLETE WITH LAMPS AND ROUGH-IN.
 - SAFETY SWITCHES:** AS SPECIFIED COMPLETE WITH FUSES WHERE INDICATED.
 - PANELBOARDS:** AS SPECIFIED WITH OVERCURRENT PROTECTIVE DEVICES COMPLETE.
 - GROUNDING:** ALL SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES, AND THE UTILITY COMPANIES.
 - WATERPROOFING:** WHERE ANY WORK PIERCES WATERPROOFING, INCLUDING WATERPROOF CONCRETE AND/OR MASONRY EXTERIOR WALLS, CONTRACTOR SHALL PROVIDE ALL NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERTIGHT.
 - TESTS:** THE CONTRACTOR SHALL TEST ALL OF THE EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE ITS PROPER OPERATION TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LABOR, MATERIAL AND INSTRUMENTS FOR THE TESTS.
 - OPERATING INSTRUCTIONS:** UPON COMPLETION OF ALL WORK AND OF ALL TESTS, FURNISH THE NECESSARY SKILLED LABOR AND HELPERS FOR OPERATING ALL ELECTRICAL SYSTEMS AND EQUIPMENT IN ORDER TO INSTRUCT AND TRAIN THE OWNER'S REPRESENTATIVE IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.
 - GUARANTEE:** ALL ELECTRICAL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

- ELECTRICAL SYMBOLS**
- ⊙ INDICATES TYPE OF LIGHTING FIXTURE - SEE SCHEDULE.
 - CEILING OUTLET WITH INCANDESCENT LIGHTING FIXTURE.
 - CEILING OUTLET WITH RECESSED FLUORESCENT LIGHTING FIXTURE.
 - ⊙ EXIT LIGHT WITH SELF CONTAINED BATTERY BACK-UP.
 - ⊙ EMERGENCY BATTERY LIGHT
 - ⊙ DIMMER SWITCH 4'-0" ABOVE FLOOR
 - ⊙ THREE-WAY DIMMER SWITCH 4'-0" ABOVE FLOOR
 - ⊙ INNER AND OUTER LAMP SWITCHING
 - ⊙ SINGLE POLE FLUSH TOGGLE SWITCH 4'-0" ABOVE FLOOR OR AS NOTED.
 - ⊙ THREE OR FOUR WAY FLUSH TOGGLE SWITCH 4'-0" ABOVE FLOOR OR AS NOTED.
 - ⊙ DUPLEX RECEPTACLE, 2P, 3W, 20A, 125V, 18" ABOVE FLOOR OR AS NOTED.
 - ⊙ GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE 2P, 3W, 20A, 125V, 42" ABOVE FLOOR OR AS NOTED.
 - ⊙ DUPLEX RECEPTACLE 2P, 3W, 20A, 125V, 44" ABOVE FLOOR OR AS NOTED.
 - ⊙ DOUBLE DUPLEX RECEPTACLE WITH SURGE PROTECTION AND WITH SINGLE 2 GANG COVER. MOUNT 18" ABOVE FLOOR OR AS NOTED.
 - ⊙ JUNCTION BOX - CEILING OR WALL MOUNTED.
 - ▶ TELEPHONE OUTLET FOR FAX AND TELEPHONE WITH COVER PLATE AND PULL-IN LINES TO CEILING SPACE.
 - ▶ QUAD RJ45 JACK FOR (2) NETWORK CONNECTIONS
 - ▶ TWO (2) CONDUCTOR PINNED CONNECTOR FOR PRINTER WITH TWO RJ45 JACK.
 - ⊙ ELECTRIC MOTOR CONNECTION.
 - ⊙ SAFETY SWITCH (F.S.S.-FUSIBLE N.F.S.S.-NONFUSIBLE). RATING AS NOTED.
 - ⊙ MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR
 - ⊙ MOTOR SWITCH WITH THERMAL OVERLOAD PROTECTION
 - ⊙ PANELBOARD.
 - ▶ BRANCH CIRCUIT HOMERUN TO PANELBOARD. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS. NUMBERS DESIGNATE CIRCUIT NUMBER AT PANELBOARD. UNLESS OTHERWISE INDICATED CONNECT TO 1P-20A CIRCUIT BREAKER IN DESIGNATED PANEL.
 - ▶ BRANCH CIRCUIT WIRING CONCEALED IN CEILING OR WALLS. CROSSMARKS AND NUMERALS INDICATE NUMBER AND SIZE OF CONDUCTORS RESPECTIVELY. 2-#12 A.M.S. NOT NOTED.
 - ⊙ PHOTOCELL - MOUNT ON ROOF
 - ⊙ DISPOSER CONNECTION - SWITCHED
- ABBREVIATIONS**
- AFF ABOVE FINISHED FLOOR
 - GFI GROUND FAULT INTERRUPTER
 - EMC ELECTRIC WATER COOLER
 - WP WEATHERPROOF



TYPICAL LIGHT POLE BASE DETAIL
NO SCALE

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Drawing Title
ELEC. ROOM LAYOUT, SYMBOLS, RISER DIAGRAM, AND SCHEDULES

Approved: Area Director
Approved: Cemetery Director

Project Title
SYSTEMS INTEGRATION CENTER

Date
10-10-95

Project No.
872-CM-014

Building Number
Checked
G.O.

Location
**Department of Veterans Affairs
National Cemetery System
Quantico National Cemetery, Virginia**

Drawing No.
E-1

Sheet
26 of 28

NATIONAL CEMETERY SYSTEM

Department of Veterans Affairs