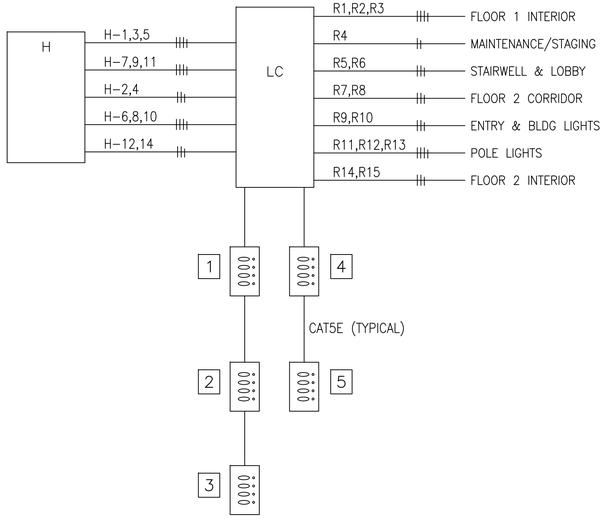
PANEL LC				
RELAY	SOURCE	LOAD	WATTS	CONTROLS
R1	H-1	FLOOR 1 INTERIOR	2240	LOCAL SWITCH, SWEEP OFF
R2	H-3	FLOOR 1 INTERIOR	3160	LOCAL SWITCH, SWEEP OFF
R3	H-5	FLOOR 1 INTERIOR	2800	LOCAL SWITCH, SWEEP OFF
R4	H-7	MAINTENANCE/STAGING	3000	LOCAL SWITCH, SWEEP OFF
R5	H-9	STAIRWELL	500	NO SWITCH, ALWAYS ON
R6	H-9	FLOOR 1 LOBBY	500	LV SWITCH ONLY
R7	H-9	FLOOR 2 CORRIDOR	450	LV SWITCH ONLY
R8	H-11	FLOOR 2 CORRIDOR	450	LV SWITCH ONLY
R9	H-2	ENTRY LIGHTS	900	ASTRONOMIC CONTROL
R10	H-4	BUILDING PERIMETER	3600	ASTRONOMIC CONTROL
R11	H-6	POLE LIGHTS	2400	ASTRONOMIC CONTROL
R12	H-8	POLE LIGHTS	2400	ASTRONOMIC CONTROL
R13	H-10	POLE LIGHTS	2400	ASTRONOMIC CONTROL
R14	H-12	FLOOR 2 INTERIOR	2400	LOCAL SWITCH, SWEEP OFF
R15	H-14	FLOOR 2 INTERIOR	4200	LOCAL SWITCH, SWEEP OFF
R16	–	SPARE	–	–

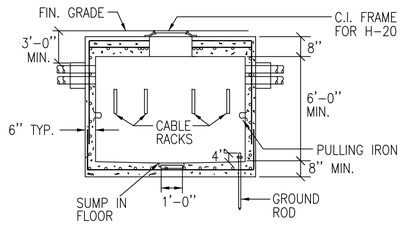
INTELLIGENT LIGHTING CONTROLS APPRENTICE II RELAY PANEL.
277V, 20A RELAYS, TOTAL 16.
ASTRONOMIC CLOCK.
ALL ASTRONOMIC RELAYS SHALL TURN ON 15 MINUTES BEFORE SUSNSET, AND OFF 15 MINUTES AFTER SUNRISE.



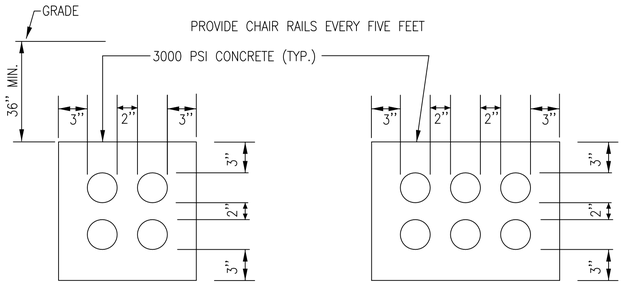
LIGHTING CONTROL SYSTEM WIRING DIAGRAM
NO SCALE

LOW-VOLTAGE CONTROL STATIONS			
STATION	BUTTON	DESCRIPTION	RELAY AND CONTROL
1	1	ON/OFF FLOOR 1 LOBBY	R6 ON/OFF
	2	SWEEP OFF FLOOR 1	R1,R2,R3 SWEEP OFF – R6 OFF
	3	SWEEP OFF FLOOR 2	R13,R14,R15 SWEEP OFF – R7 OFF
	4	SWEEP OFF MAINT/STAGE	R4 SWEEP OFF
	5	SPARE	–
	6	SPARE	–
2	1	ON/OFF FLOOR 1 LOBBY	R6 ON/OFF
	2	SWEEP OFF FLOOR 1	R1,R2,R3 ON/SWEEP OFF – R6 OFF
	3	SWEEP OFF MAINT/STAGE	R4 SWEEP OFF
	4	SPARE	–
	5	SPARE	–
	6	SPARE	–
3	1	SWEEP OFF CAGE/BATHROOM	R2,R3 SWEEP OFF
	2	SPARE	–
	3	SPARE	–
	4	SPARE	–
	5	SPARE	–
	6	SPARE	–
4	1	ON/OFF FLOOR 2 CORRIDOR	R7 ON/OFF
	2	SWEEP OFF FLOOR 2	R13,R14,R15 SWEEP OFF – R7 OFF
	3	SPARE	–
	4	SPARE	–
	5	SPARE	–
	6	SPARE	–
5	1	ON/OFF FLOOR 2 CORRIDOR	R7 ON/OFF
	2	SWEEP OFF FLOOR 1	R1,R2,R3 SWEEP OFF – R6 OFF
	3	SWEEP OFF FLOOR 2	R13,R14,R15 SWEEP OFF – R7 OFF
	4	SWEEP OFF MAINT/STAGE	R4 SWEEP OFF
	5	SPARE	–
	6	SPARE	–

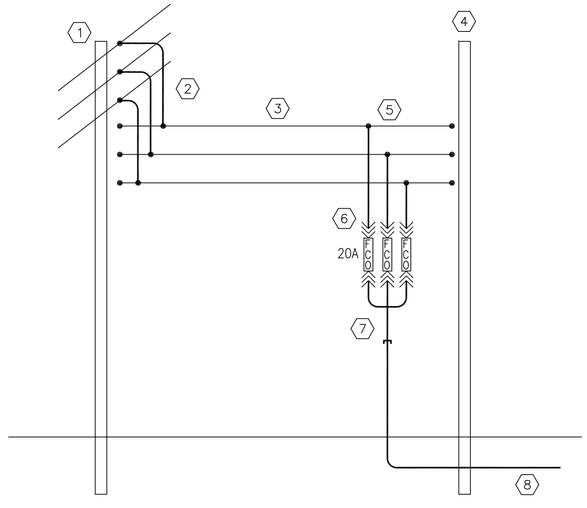
6-BUTTON CONTROL STATION WITH LED STATUS LIGHTS.
CAT5E CABLING TO RELAY PANEL CONTROLLER.
SWEEP OFF = ALL RELAYS-WARNING PULSE FOLLOWED BY OFF PULSE THEN RETURN CONTROL TO LOCAL SWITCHING.
ON/OFF = TURN RELAY ON OR OFF, NO LOCAL SWITCH OVERIDE.



MANHOLE DETAIL
NO SCALE



UNDERGROUND DUCTBANK DETAIL
NO SCALE



POWER POLE INSTALLATION DETAIL
NO SCALE

SPECIFIC NOTES THIS SHEET:

1. EXISTING WOOD POLE. PROVIDE NEW CROSSARM WITH DEAD END INSULATORS BELOW EXISTING CROSSARM FOR LATERAL TAP.
2. PROVIDE TAP TO EXISTING LINES USING THROUGH BOLT CONNECTORS AND SOLID ALUMINUM ALLOY CONNECTORS.
3. #1 AWG "RAVEN" ACSR CONDUCTOR PER PHASE.
4. CCA TREATED WOOD POLE, LENGTH AS REQUIRED, WITH SINGLE CROSSARM AND DEAD END INSULATORS. PROVIDE #4 AWG BARE COPPER GROUND LEAD TO BASE.
5. PROVIDE DOWNLEADS TO FUSED CUTOUTS USING SOLID ALUMINUM ALLOY CONNECTORS.
6. FUSED CUTOUTS, THREE TOTAL, 15KV UNGROUNDED, 100A WITH K TYPE FUSES RATED 20A. PROVIDE METAL OXIDE, POLYMERIC HOUSED, 18KV SURGE ARRESTORS, CROSSARM MOUNTED.
7. 2-4" GRS CONDUITS WITH BUSHED ENDS ROUTED UP POLE. ONE SPARE, ONE CONTAINING 3-#1/0 AWG, TYPE MV-105 CONDUCTORS, 133% INSULATION AND EPR JACKET. TERMINATE TO LOAD SIDE OF FUSED CUTOUTS. GROUND CABLE SHIELDS TO #4 GROUND LEAD.
8. TRANSITION TO SCHEDULE 40 PVC, CONCRETE ENCASED.

RECORD DRAWING
LETTER DATED
5-27-10

AS-BUILT REVISIONS

DESCRIPTION	DATE	APPR
	5-27-10	

NAVFAC

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SEPTEMBER 4, 2009

STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
SEAL

DES: K. SCHLAFLY	DRW: K. SCHLAFLY
REVIEWED BY: R. WILTSE	
PM/DM: T. ARTRIP	
CHIEF ENG/ARCH: P. DAMMON	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION JACKSONVILLE MISSISSIPPI
JPT. SOUTH ATLANTIC
JOHN C. STENNIS SPACE CENTER

SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY

ELECTRICAL DETAILS

CODE ID. NO. N4412	SIZE D
SCALE:	AS SHOWN
MAXIMO NO.	######
STA. PROJ. NO.	P-210
WORK ORDER NO.	510247
CONSTR. CONTR. NO.	N62467-05-D-0096
NAVFAC DRAWING NO.	15026751
SHEET	104 OF 132

E1.6

DRAWFORM REVISION: 01 JAN 2009

REVDATE: FILE NAME: C:\ Schlafly ENGR\ 08010 SOF Riverine \Drawings \Elec \5-As-builts \E1.6.dwg LAYOUT NAME: E1.6 PLOTTED: Friday, May 28, 2010 – 3:00pm