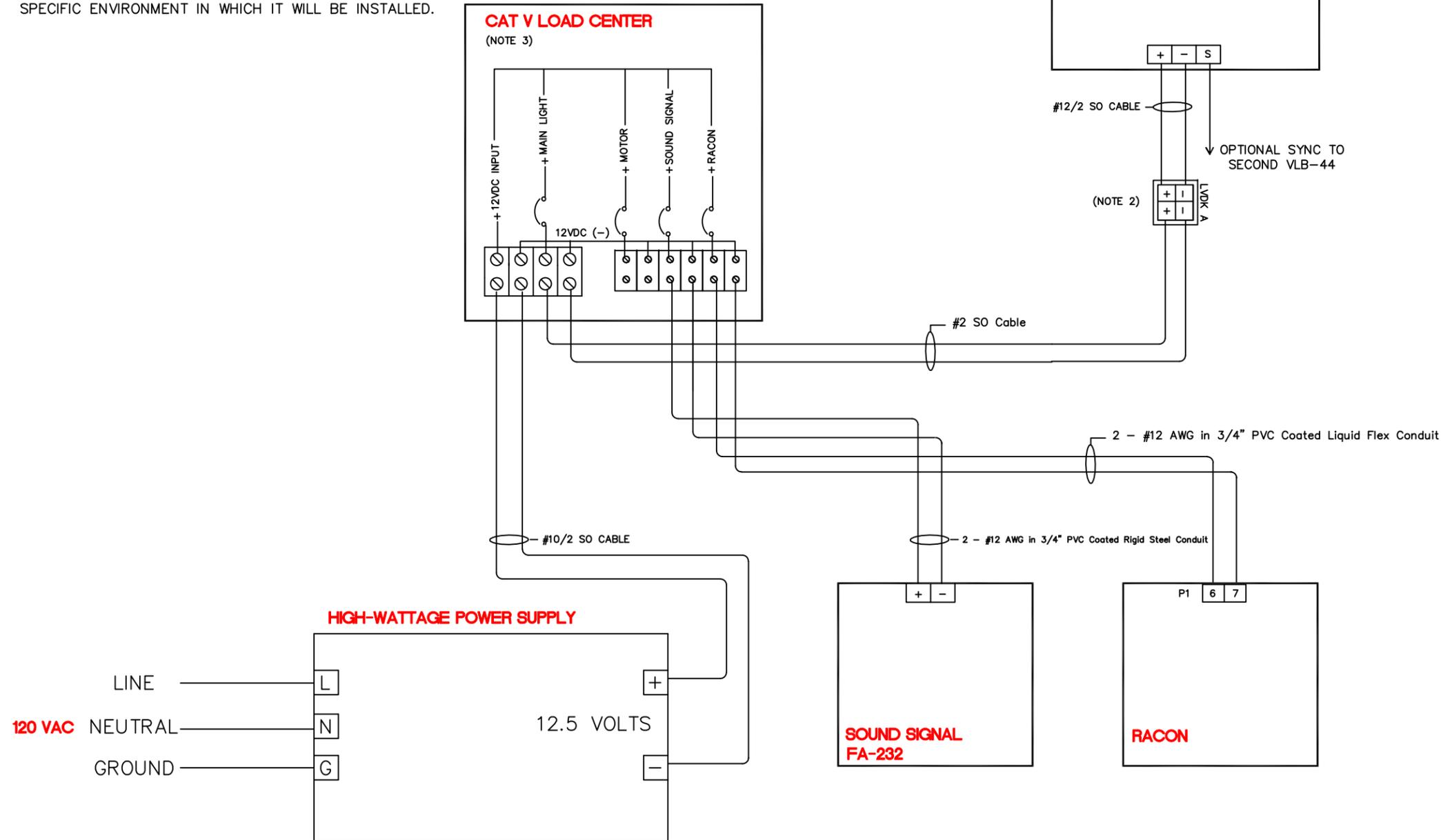


SYSTEM NOTES:

- CAT V LOAD CENTER CIRCUIT BREAKER PROTECTION IS 20 AMPS.
- USE LOW VOLTAGE DROP KIT IF VOLTAGE DROP EXCEEDS 0.35V IN THE POWER FEEDER BETWEEN THE CAT V LOAD CENTER AND MAIN LIGHT. REFER TO COMDTINST M16500.24 FOR CALCULATIONS.
- ALL WIRE RUNS SHALL BE ENCLOSED IN RIGID CONDUIT OR LIQUID-TIGHT FLEX CONDUIT TO FORM A WEATHERTIGHT SYSTEM AND PROTECT ELECTRICAL COMPONENTS FROM THE ELEMENTS. SELECTED CONDUIT TYPE AND FITTINGS (PVC, RIGID STEEL, PVC COATED RIGID STEEL, STAINLESS STEEL LIQUIDTIGHT FLEX) SHALL BE SUITABLE FOR THE SPECIFIC ENVIRONMENT IN WHICH IT WILL BE INSTALLED.



POINT TO POINT WIRE RUNNING LIST

FROM	WIRE SIZE (AWG)	MAXIMUM DISTANCE	TO
120VAC LINE	12	200	HWPS, L
120VAC NEUTRAL	12	200	HWPS, N
120VAC GROUND	12	200	HWPS, G
HWPS, 12.5V (+)	10	10	LC, 12VDC (+)
HWPS, 12.5V (+)	10	10	LC, 12VDC (-)
LC 12VDC MAIN LIGHT (+)	2	100	LVDK (+)
LC 12VDC MAIN LIGHT (-)	2	100	LVDK (-)
LVDK (+)	12	2.5	VLB-44 (+)
LVDK (-)	12	2.5	VLB-44 (-)
LC SOUND SIGNAL (+)	12	75	SOUND SIGNAL (+)
LC SOUND SIGNAL (-)	12	75	SOUND SIGNAL (-)
LC RACON (+)	12	40	RACON P1 6
LC RACON (-)	12	40	RACON P1 7

BILL OF MATERIALS

ITEM	TYPE	SOURCE OF SUPPLY
MAIN LIGHT, 12VDC	VLB-44	CG-432
HW POWER SUPPLY	HWPS	CG-432
LOW VOLTAGE DROP KIT	LVDK	CG-432
CAT V LOAD CENTER	LC-1	CG-432
RACON	SEABEACON II	CG-5531
SOUND SIGNAL	FA-232	AUTOMATIC POWER, INC.

REV.	DATE	APPR.	DESCRIPTION	BY
DESIGNED:	STN		U.S. COAST GUARD HEADQUARTERS CIVIL ENGINEERING STANDARD AID TO NAVIGATION COMMERCIAL POWERED 12 VDC LIGHTHOUSE WITH VLB-44/FA-232	
DRAWN:	STN			
TRACED:				
CHECKED:	JTG			
REVIEWED BY:				
PROJECT ENGINEER				
REVIEWED BY:	JTG			
REVIEWED BY:	JTG	APPROVED:	STAN D. WALKER	DATE
	JTG		CG-432	CHIEF, OCEAN ENGINEERING DIVISION
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ANG.				DRAWING NUMBER
				130450
SCALE: NONE				SHEET 1 OF 1