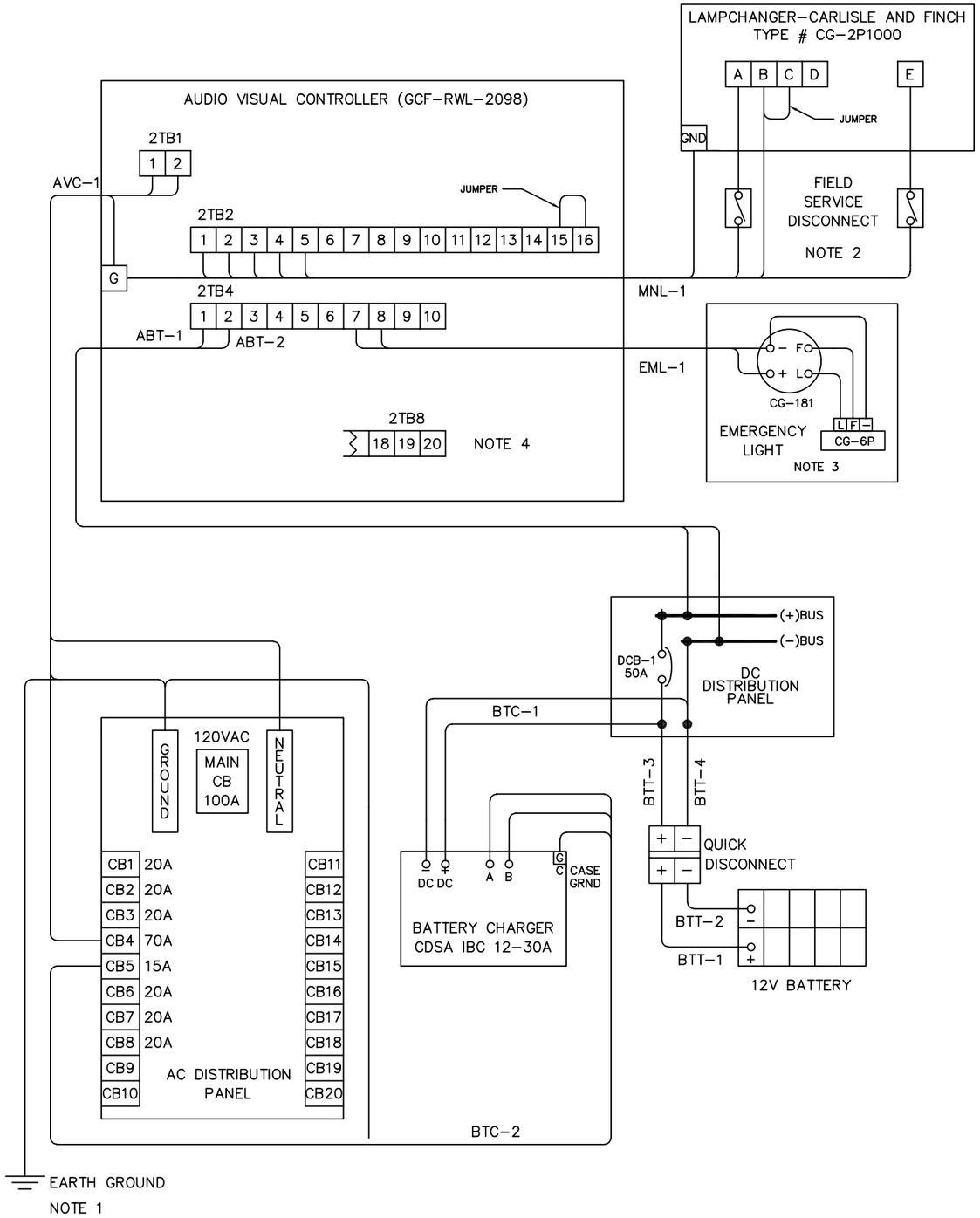

POINT TO POINT WIRE RUNNING LIST

FROM	WIRE SIZE (AWG)	WIRE CODE	CABLE DESIGNATION	TO
BATTERY CHARGER, (+) OUTPUT	12	A	BTC–1A	DC DIST PANEL, (+) DCB–1 LINE SIDE
BATTERY CHARGER, (–) OUTPUT	12	A	BTC–1B	DC DIST PANEL, (–) INPUT BUS
QUICK DISCONNECT, (+) INPUT	6	A	BTT–1	EMREG BATTERY, (+) POST
QUICK DISCONNECT, (–) INPUT	6	A	BTT–2	EMERG BATTERY, (–) POST
QUICK DISCONNECT, (+) OUTPUT	6	A	BTT–3	DC DIST PANEL, DCB–1 LINE SIDE
QUICK DISCONNECT, (–) OUTPUT	6	A	BTT–4	DC DIST PANEL, (–) INPUT BUS
DC DIST PANEL, (+)OUTPUT BUS	6	A	ABT–1	AUDIO VISUAL CONTROLLER, 2TB4–1
DC DIST PANEL, (–)OUTPUT BUS	6	A	ABT–2	AUDIO VISUAL CONTROLLER, 2TB4–2
AC DIST PANEL, CB4	4	A	AVC–1A	AUDIO VISUAL CONTROLLER, 2TB1–2
AC DIST PANEL, NEUTRAL BUS	4	A	AVC–1B	AUDIO VISUAL CONTROLLER, 2TB1–1
AC DIST PANEL, GROUND BUS	4	A	AVC–1C	AUDIO VISUAL CONTROLLER, CASE GRND
AC DIST PANEL, CB5	14	A	BTC–2A	BATTERY CHARGER, AC LINE INPUT
AC DIST PANEL, NEUTRAL BUS	14	A	BTC–2B	BATTERY CHARGER, AC NEUTRAL INPUT
AC DIST PANEL, GROUND INPUT	14	A	BTC–2C	BATTERY CHARGER, GROUND
AUDIO VISUAL CONTROLLER, 2TB2–1	TBL 1	A	MNL–1A	MAIN OPTIC LAMP CHANGER, TERM #A
AUDIO VISUAL CONTROLLER, 2TB2–2	TBL 1	A	MNL–1B	MAIN OPTIC LAMP CHANGER, TERM #B
AUDIO VISUAL CONTROLLER, 2TB2–3	14	A	MNL–1C	MAIN OPTIC LAMP CHANGER, TERM #E
AUDIO VISUAL CONTROLLER, CASE GRND	12	A	MNL–1D	MAIN OPTIC LAMP CHANGER FRAME
MAIN OPTIC LAMP CHANGER, TERM #B	14	A	JUMPER	MAIN OPTIC LAMP CHANGER, TERM #C
AUDIO VISUAL CONTROLLER, 2TB2–15	20	A	JUMPER	AUDIO VISUAL CONTROLLER, 2TB2–16
AUDIO VISUAL CONTROLLER, 2TB4–7	10	A	EML–1A	EMERG LT, CG–181(+) (SEE NOTE 5)
AUDIO VISUAL CONTROLLER, 2TB4–8	10	A	EML–1B	EMERG LT, CG–181(–) (SEE NOTE 5)

WIRE CODES:

A–SINGLE CONDUCTOR STRANDED THWM INSULATION

TABLE 1

MAINLIGHT CONDUCTOR SIZE

WIRE SIZE (AWG)	ALLOWED DISTANCE (FEET)
14	95 OR LESS
12	151
10	240
8	382

NOTES:

1. FOR PROPER GROUNDING INTERCONNECTIONS SEE DWG CG–130419 AND CHAPTER 7 OF COMDTINST M16500.8A.
2. FIELD SERVICE DISCONNECTS SHALL BE INSTALLED NEAR THE OPTIC. LABEL THE DISCONNECT TO TERMINAL "A" "LAMP DISC," AND TO TERMINAL "E" "L/C MON. DISC.".
3. WIRE FOR CG–181 TO LAMPCHANGER IS AVAILABLE AS NSN 6230–00–G00–4343.
4. REMOVE JUMPER ON TERMINALS 2TB8–18 AND 19.

REV.	DATE	APPR.	DESCRIPTION	BY
B	1/87	HRC	CHANGE 30A BREAKER TO 20A AT CB6.	KA
A	10/77	HRC	REMOVE JUMPER ON AVC 2TB8–18 AND 19.	RAD

DESIGNED: RAD
DRAWN:
TRACED:
CHECKED: R.A.DOUGHTY
REVIEWED BY: P.HAWKINS
CH ELECT SECT
REVIEWED BY: H.R.CLEVELAND
CH SYS SECT
REVIEWED BY: C.W.SCHECK
CH SUP EQ BR

U.S. COAST GUARD HEADQUARTERS
OCEAN ENGINEERING

STANDARD AID TO NAVIGATION
FLASHED OPTIC
1000W WITH EMERGENCY LIGHT
INTERCONNECTING DIAGRAM

APPROVED: K. D. URFER
CHIEF OF DIVISION
DATE 8/2/77

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES.
TOLERANCES: DIM.
ANG.

DRAWING NUMBER 130405
REV. B
SCALE: NONE
SHEET 1 OF 1

PLOTTING SCALE: