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SME APPROVAL		REVISIONS			
SYM	REVISION	SYM	DESCRIPTION	DATE	APPROVED
		A	ADDED ITEMS 28, 30 & 31; A <sub>2</sub> REMOVED ITEM 28; A <sub>3</sub> REVISED PICTORIAL & AWIES 3, 5, 6; A <sub>4</sub> DELETED NOTE 4.		
B	CABA221	B	SHE PART NOS. REPLACED COLLUMS/PART NOS.	22 MAR 60	
C	CABA781	C	C, 1152036-102 WAS 1152036-8-1	17 MAR 60	
D		D	(1) ITEM 31 QTY WAS 2, (2) REMOVED ITEM 31 & WHT GRD WIRE	30 MAR 1962	
E		E	ITEM 2 WAS BLK #2	196 66	

CONNECTOR WIRING TABLE

J512	NO.	WIRE	COLOR
2	3	WHT, RED	
2	11	WHT, RED	
3	10	WHT, BLK	
4	4	WHT, BLK, BLU	
4	16	WHT, BLK, BLU	
5	21	WHT, ORN	
6	0	WHT, GEN	
7	8	WHT, GEN	
8	19	WHT, ORN, GEN	
9	9	WHT, RED, GEN	
10	13	WHT, BLK, RED	
11	8	WHT, ORN, RED	
12	17	WHT, ORN, BLU	
13	5	WHT, RED, BLU	
14	14	WHT, GEN, BLU	
15	15	WHT, BLU	
16	7	WHT, ORN, GEN	
17	2	WHT	
18	22	WHT	
19	20	WHT, ORN, GEN	
20	12	WHT, BLK	
20	1	WHT, BLK	

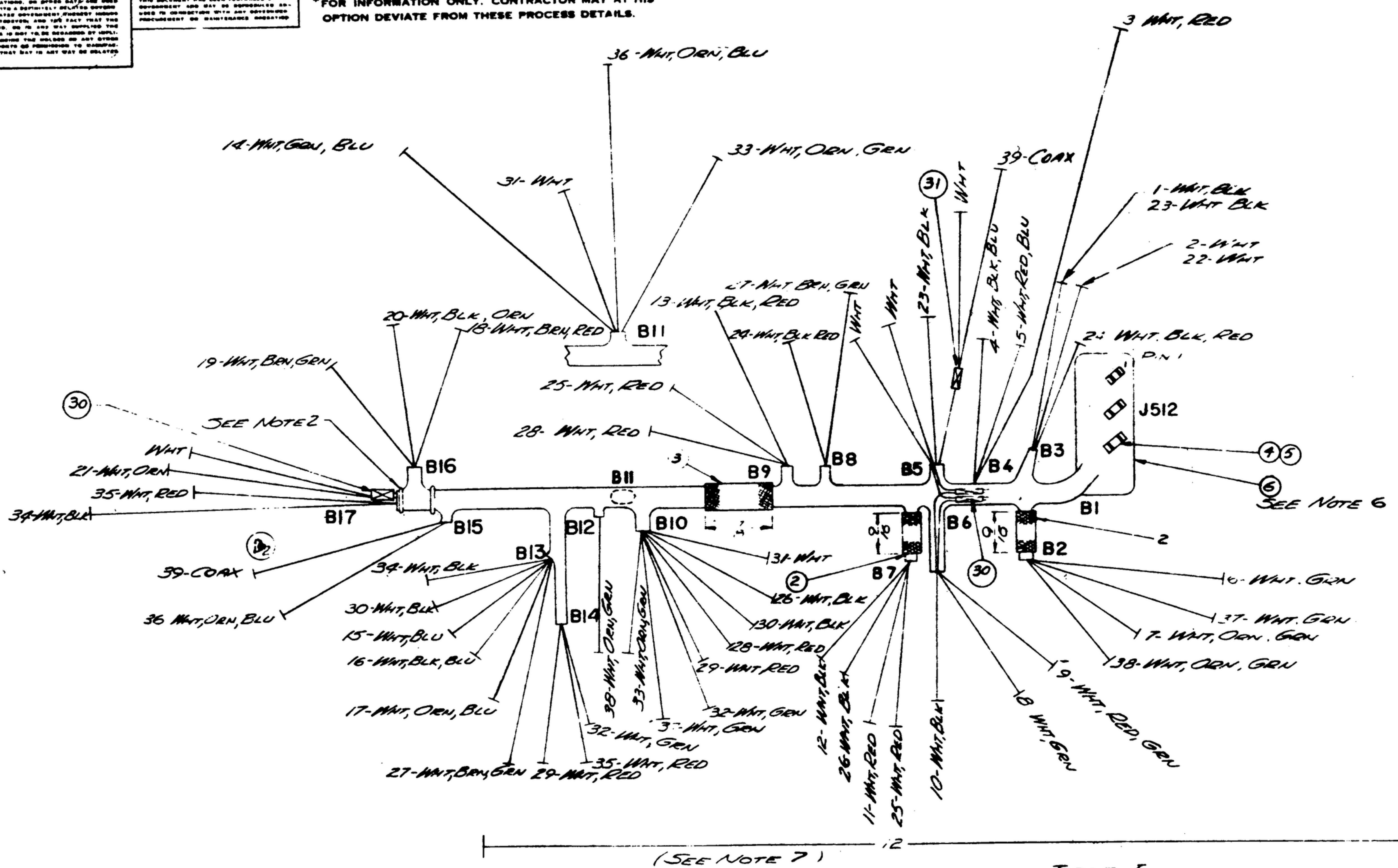


TABLE I WIRE ROUTING TABLE

WIRE NO.	BREAKOUT NO.	OTHER END	COLOR	ITEM NO.
1	B1	B3	WHT, BLK	9
2	B1	B3	WHT	8
3	B1	B4	WHT, RED	10
4	B1	B4	WHT, BLK, BLU	15
5	B1	B4	WHT, RED, BLU	19
6	B1	B2	WHT, GEN	11
7	B1	B2	WHT, ORN, GEN	20
8	B1	B6	WHT, GEN	25
9	B1	B6	WHT, RED, GEN	18
10	B1	B6	WHT, BLK	23
11	B1	B7	WHT, RED	10
12	B1	B7	WHT, BLK	9
13	B1	B9	WHT, BLK, RED	13
14	B1	B11	WHT, GEN, BLU	22
15	B1	B13	WHT, BLU	12
16	B1	B13	WHT, ORN, BLU	15
17	B1	B13	WHT, ORN, BLU	21
18	B1	B16	WHT, ORN, RED	16
19	B1	B16	WHT, ORN, GEN	17
20	B1	B16	WHT, BLK, ORN	14
21	B1	B17	WHT, ORN	24
22	B1	B3	WHT	8
23	B3	B5	WHT, BLK	9
24	B3	B8	WHT, BLK, RED	13
25	B7	B9	WHT, RED	10
26	B7	B10	WHT, BLK	9
27	B8	B11	WHT, ORN, GEN	17
28	B9	B10	WHT, RED	10
29	B10	B14	WHT, RED	10
30	B10	B13	WHT, BLK	9
31	B10	B11	WHT	8
32	B10	B14	WHT, GEN	11
33	B10	B11	WHT, ORN, GEN	20
34	B3	B17	WHT, BLK	9
35	B4	B17	WHT, RED	10
36	B11	B15	WHT, ORN, BLU	21
37	B10	B2	WHT, GEN	11
38	B12	B2	WHT, ORN, GEN	20
39	B5	B15	PINK	7

- NOTES:
- INSULATE ALL TERMINALS ON CONNECTOR (6) WITH 1/2 LENGTH TUBING (1).
  - LACE OR TIE CABLE AT ENDS OF SLEEVING, AT BREAKOUTS AND AT APPROXIMATELY 1/2 INCH INTERVALS USING TAPE (21).
  - SOLDERING PER SPEC MIL-S-6872 USING ROSIN CORE SOLDER, COMP JY60 PER SPEC DD-3-577. (23)
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  - SYMBOL  $\otimes$  INDICATES TERMINATION OF SHIELD BY INSERTING SHIELD IN FERRULE (30) OR (31), INSERTING WIRE (26) IN FERRULE & CRIMPING.
  - TERMINATE SHIELD ON WIRES (23) (24) (25) 1/2 INCH FROM END WITH SHEATH (4) (5) BY INSERTING INNER SHEATH (4) UNDER SHIELD AND OUTER SHEATH (5) OVER SHIELD & CRIMPING BEFORE SOLDERING TO J512.
  - CABLE IS DRAWN TO SCALE. LENGTHS INDICATED BY MARKS ARE TO ENDS OF STRANDA AFTER STRIPPING.

ITEM	QTY	DESCRIPTION	DATE	APPROVED
31	1	MS 25311-120 FERRULE, SHIELD GND		
30	3	MS 25311-100 FERRULE, SHIELD GND		
29	8	SOLDER, SOFT	QR-S-571	3
28		VARNISH		4
27	2	SM-D-248991-22 TAPE, TYPE D, CLASS 2, WARE	MIL-F-713	2
26	1	KEYSTONE WIRE	MIL-W-18998	
25	1	SM-D-248991-21 WIRE, B-22, NYLON JACKET	MIL-W-16878	
24		-20		
23		-19		
22		-18		
21		-17		
20		-16		
19		-15		
18		-14		
17		-13		
16		-12		
15		-11		
14		-10		
13		-9		
12		-8		
11		-7		
10		-6		
9		-5		
8	1	SM-D-248991-4 WIRE, B-22, NYLON JACKET, WHT	MIL-W-16878	
7	1	SM-C-283211 CABLE - PINK		
6	1	SM-C-283188 CONNECTOR - PLUG		
5	3	SM-B-249252-2 SHEATH - TERMINATING		6
4	3	SM-B-249252-3 SHEATH - TERMINATING		6
3	3	SM-D-248991-3 INSULATION, CLASS B-A, BLK, #0	MIL-I-3190	
2	2	SM-D-248991-2 INSULATION, CLASS B-A, BLK, #0	MIL-I-3190	
1	1	SM-D-248991-1 INSULATION, CLASS B-A, BLK, #0	MIL-I-3190	

LIST OF MATERIAL

DRAWN: AEE

APPROVED: [Signature]

COLLUMS RADIO CO. 18214-PH-5193

SIGNAL CORPS

REVIEWED: PME

APPROVED: PML

DATE: 16 MAR 56

SCALE: 1/1

DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES FORT MONMOUTH NEW JERSEY

SM-D-248991

WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY AND DATE