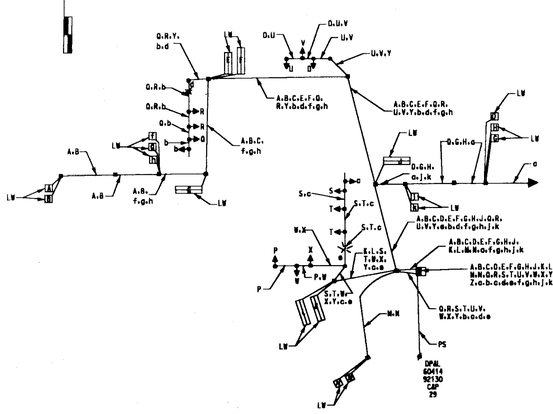
US 50 AND MD 707

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5													
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

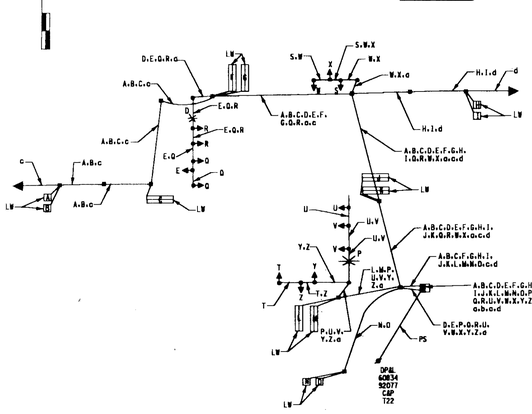
- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
- 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- T - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- Z - 3-WIRE ELECTRICAL CABLE (NO. 4 A.W.G.)
- a - 12-PAIR, VOICE GRADE TELEMETRY CABLE (NO. 19 A.W.G.) (JELLY-FILLED)
- LW - LOOP WIRE (NO. 14 A.W.G.)
- d,e - 2-CONDUCTOR ELECTRICAL CABLE (NO.12 A.W.G.)TYPE THHN TRAY
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY OPAL

US 50 AND MD 611

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5													
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
PHASE 4	R	R	R	R	R	R	R	R	G G	G G	G	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

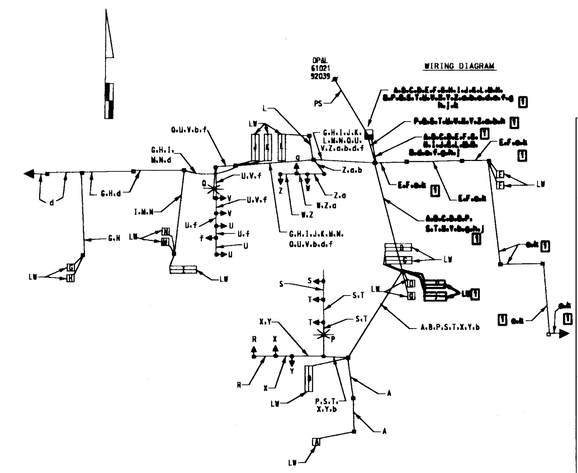
- A, B, C, D, E, F, G, H, I, J, K, L, M, N — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
- O, P — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TYPE THHN TRAY CABLE
- Q, R, S, T, U, V — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- W, X, Y, Z — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- d - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- b - 3-WIRE ELECTRICAL CABLE (NO. 4 A.W.G.)
- c, d - 12-PAIR, VOICE GRADE TELEMETRY CABLE (NO. 19 A.W.G.) (JELLY-FILLED)
- LW - LOOP WIRE (NO. 14 A.W.G.)
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY OPAL

US 50 AND GOLF COURSE ROAD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5													
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	G G	G G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
- p, q — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TYPE THHN TRAY CABLE
- 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- b - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- c - 3-WIRE ELECTRICAL CABLE (NO. 4 A.W.G.)
- d, e - 12-PAIR, VOICE GRADE TELEMETRY CABLE (NO. 19 A.W.G.) (JELLY-FILLED)
- LW - LOOP WIRE (NO. 14 A.W.G.)
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY OPAL

1 -REVISED 3/22/99

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1	LOOPS + CONDUIT 3/99

APPROVALS

ASST. CHIEF TEDD SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION

US 50: MD 707 EAST TO SHANTYTOWN ROAD

DRAWN BY: THACKER	COUNTY: WORCESTER	TS NO.	SHEET NO.
CHECK BY: EMM	LOG MILE:		
DATE: 10-16-98	F.A.P. NO.	T.I.M.S. NO.	49 OF 63
SCALE: N/A	S.H.A. NO. W07355176		

MAR 15 1999