

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE RELOCATION OF THE EXISTING POLE AND MAST ARMS IN THE NORTHWEST QUADRANT, OF THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 147(HARFORD ROAD) AND NORTH WIND ROAD, IN BALTIMORE COUNTY. MD 147 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. THE STREET LIGHTING, TRAFFIC SIGNAL HEADS AND SIGNING AT THE INTERSECTION NOT INVOLVED IN THE RELOCATION SHALL REMAIN THE SAME.

THE RELOCATION OF THE SIGNAL STRUCTURE WILL REQUIRE A NEW FOUNDATION FOR THE NORTHWEST TWIN MAST ARMS AND POLE. THE ELECTRICAL CABLES WILL BE DISCONNECTED, LABELED, AND PULLED BACK TO THE NEAREST HANDHOLE. THE NORTH LEG MAST ARM WILL BE REMOVED AND CUT TO 40 FEET AND STORED (ALL EXISTING EQUIPMENT SHALL BE SECURED.) THE REMAINING SIGNAL STRUCTURE SHALL BE LIFTED ONTO THE NEW FOUNDATION AND THE NORTH LEG MAST ARM SHALL BE INSTALLED USING NEW FLANGE BOLTS. THE EXISTING CABLES WILL BE RE-ROUTED, RECONNECTED AND THE SIGNAL HEADS AIMED.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULL TRAFFIC ACTUATED MODE. MD 147 APPROACHES OPERATE CONCURRENTLY WITH AN EXCLUSIVE/ PREMISSIVE LEFT TURN FOR THE EAST LEG OF MD 147. THE NORTH WIND ROAD APPROACHES SHALL ALSO OPERATE CONCURRENTLY. THE NEMA SIZE '5' POLE-MOUNTED CABINET AND ALL INTERNAL EQUIPMENT SHALL REMAIN.

III. SPECIAL NOTES:

1. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER, OOTS/SIGNAL SHOP SEVENTY- TWO HOURS PRIOR TO ANY CONSTRUCTION. COORDINATION WITH ALL THE CONTACT REPRESENTATIVES AND THE POLICE ARE REQUIRED TO MINIMIZE THE TRAFFIC SIGNAL DOWN TIME.
2. THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT AND HARDWARE REQUIRED FOR THE RELOCATION OF THE SIGNAL STRUCTURE. THE PROPOSED POLE FOUNDATION SHALL BE COMPLETED PRIOR TO THE TRAFFIC SIGNAL BEING SHUT DOWN.
3. THE CONSTRUCTION ACTIVITY SHALL BE PERFORMED DURING OFF PEAK HOURS, ONLY.
4. THE DRILLING AND CONCRETE POUR FOR THE PROPOSED FOUNDATION SHALL BE COMPLETED IN THE SAME DAY. THERE WILL BE NO OPEN HOLES WITHIN THE SITE DURING NON-WORKING HOURS.

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM	QUANTITY	DESCRIPTION
NEG	1	EA MAINTENANCE OF TRAFFIC.
NEG	1	CY CLASS 2 EXCAVATION.
NEG	1	CY TEST PIT EXCAVATION.
NEG	65	SF 4 INCH CONCRETE SIDEWALK.
NEG	1	EA INSTALL EXISTING STEEL POLE & TWIN MAST ARM WITH ALL ATTACHED EQUIPMENT (NOTE: THE REMOVED MAST ARM SHALL REQUIRE, FOUR- 1 3/4" X 90 ANCHOR BOLTS AND THE APPROPRIATE FLANGE BOLTS.) THE DRILLING FOR THE PROPOSED FOUNDATION AND CONCRETE POUR SHALL BE COMPLETED IN THE SAME DAY.
NEG	1	EA REMOVE AND DISPOSE OF EXISTING FOUNDATION 12" BELOW GRADE.
NEG	10	LF FURNISH AND INSTALL 3 INCH SCH 80 RIGID PVC CONDUIT - TRENCHED.
NEG	3	CY FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION.
NEG	20	LF FURNISH AND INSTALL NO 6 AWG STRANDED BARE COPPER GROUND WIRE.
NEG	1	EA FURNISH AND INSTALL GROUND ROD - 3/4" INCH DIAMETER X 10 FOOT LENGTH.
NEG	200	LF DISCONNECT AND PULL BACK EXISTING CABLE TO BE STORED.
NEG	1	EA CUT, CLEAN AND GALVANIZE THE EXISTING 50' MAST ARM. TO A 40' MAST ARM.
NEG	1	LS RE-WIRE AND AIM SIGNAL EQUIPMENT.

PROJECT CONTACTS

THE CONTACT REPRESENTATIVES FOR DISTRICT 4 ARE AS FOLLOWS:

MR. SCOTT RANDALL
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2785

MS. SUENETTE POPE
DISTRICT UTILITY ENGINEER
PHONE: 410-321-2841

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-321-2761

THE CONTACT REPRESENTATIVES FOR SHA -OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7630

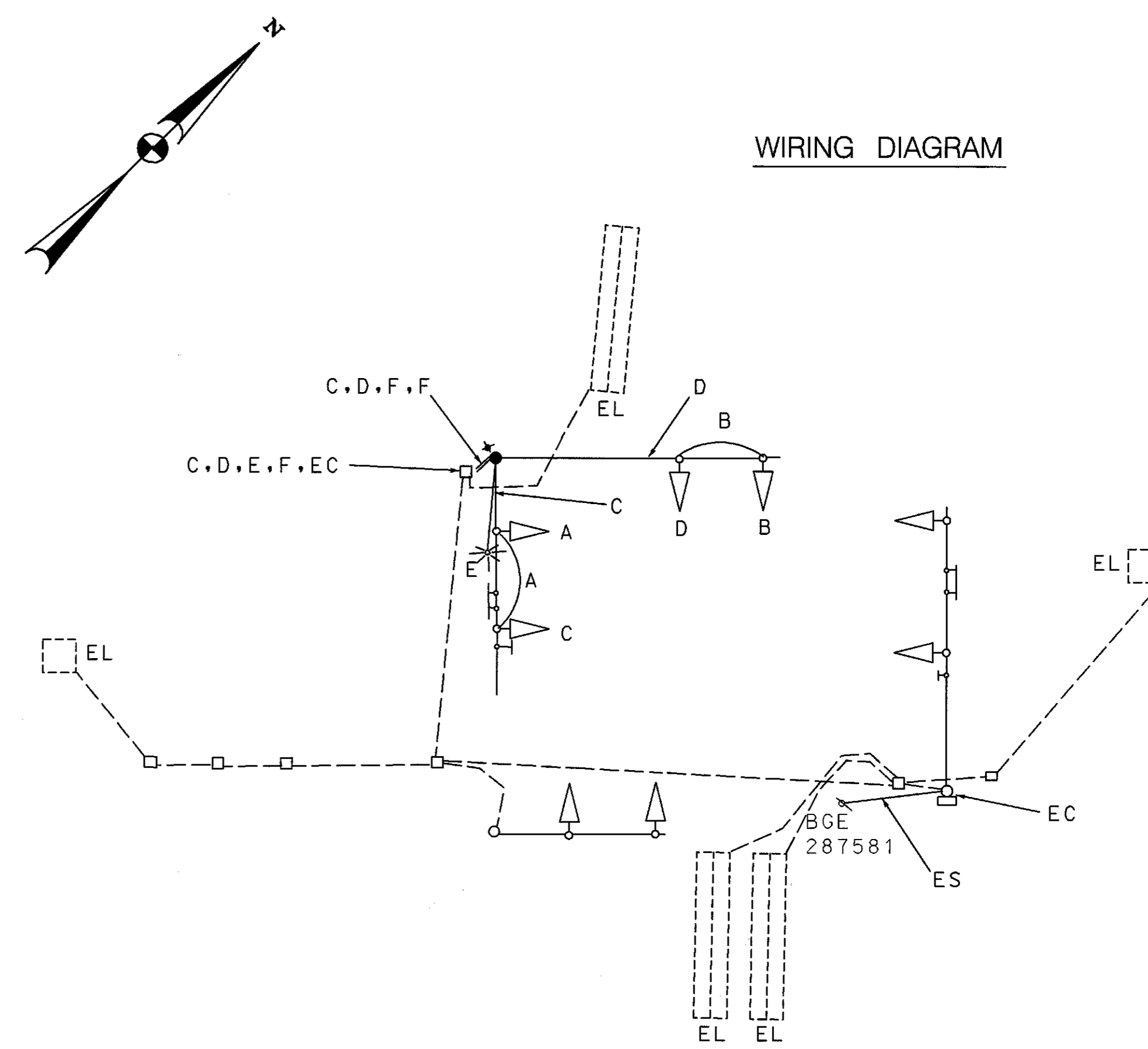
MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
Phase 2 & 5	R	R	←G-G	G	R	R	R	R	←
5 Change	R	R	←Y-G	G	R	R	R	R	↓
Phase 2 & 6	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	G	G	G	G	↑
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	↓
Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↕
Operation									↕

WIRING DIAGRAM



WIRING KEY

- A } EXISTING 5 CONDUCTOR CABLE TO REMAIN.
- B }
- C } EXISTING 7 CONDUCTOR CABLE TO BE DISCONNECTED, PULLED BACK AND REWIRED.
- D }
- E - EXISTING 2 CONDUCTOR CABLE NO. 12 AWG TYPE TRAY TO BE DISCONNECTED, PULLED BACK AND REWIRED.
- F - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
- EC - EXISTING CABLES TO REMAIN.
- ES - EXISTING SERVICE TO REMAIN.
- EL - EXISTING LOOP WIRE
- ⚡ - GROUND ROD

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 147(HARFORD RD.) AND NORTH WIND RD.

DRAWN BY: E. MILESKY	F.A.P. NO. 27863T03049	TS NO. 2046 C	SHEET NO. 2 OF 2
CHECKED BY: RJM	S.H.A. NO. BALTIMORE	T.I.M.S. NO. F-694	
SCALE: NONE	COUNTY: BALTIMORE	LOG MILE: 03014703.10	
DATE: 3/26/03			