PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNALS AND CROSSWALKS AT THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (REISTERSTOWN ROAD) AND MT. WILSON LN./ GREY ROCK RD. IN BALTIMORE COUNTY. MD 140 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION IS OPERATING IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 140 APPROACHES OPERATING CONCURRENTLY AND THE MT. WILSON LN. AND GREY ROCK RD. APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED ON THE MD 140 APPROACHES.

AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH LEG OF MD 140. PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS GREY ROCK RD.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

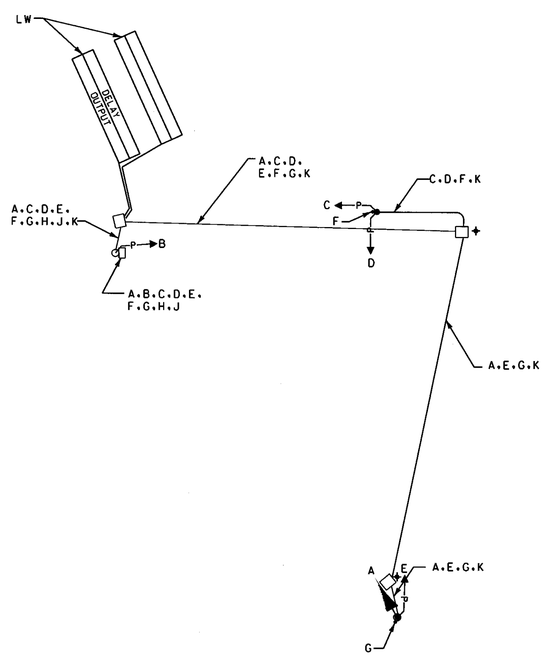
MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. DAVE RAMSEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. JOE McMAHON
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-2841

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

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B, C, D, E } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F, G } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- H, J } 2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.)
- K } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

LW - LOOP WIRE (NO. 14 A.W.G.)
+ - 3/4 IN. x 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9035	1 EACH	10' BREAKAWAY PEDESTAL POLE AND TRANSFORMER BASE

EQUIPMENT LIST "C"

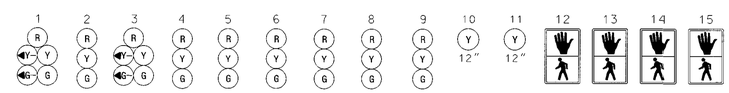
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST "B"

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	Maintenance of Traffic
2001	4	CY	Class 2 Excavation
2002	4	CY	Test Pit Excavation
5004	330	LF	12 Inch White Lead Free Reflective Thermoplastic Pavement Markings
5005	30	LF	24 Inch White Lead Free Reflective Thermoplastic Pavement Marking
5007	45	LF	5 Inch Yellow Heat Applied Thermoplastic Pavement Marking
6001	1	EA	Furnish and Install Depressed Curb and Gutter
6004	200	SF	4 Inch Concrete Sidewalk
8004	1	EA	Adjust Handhole to Grade
8010	8	EA	Furnish and Install 12 Inch Pedestrian Signal Head Section
8011	3	EA	Furnish and Install 12 Inch Vehicular Traffic Signal Head Section
8032	2	EA	Furnish and Install Pushbutton and Sign
8047	1	EA	Remove and Dispose Foundation 12 Inch Depth
8048	1	EA	Remove and Dispose of Material and Equipment Per Assignment
8052	100	LF	Furnish and Install 4 Inch PVC Schedule 80 Conduit - Bored
8057	1	CY	Furnish and Install Concrete for Signal Foundation
8060	250	LF	Furnish and Install No. 6 AWG Stranded Bare Copper Ground Wire
8068	10	LF	Furnish and Install 1 Inch Liquid Tight Flexible Non-Metallic Conduit for Detector Sleeve
8080	2	EA	Furnish and Install Ground Rod - 3/4 IN. x 10 FT. Length
8081	30	LF	Furnish and Install Electrical Cable - 2 Conductor (Aluminum Shielded)
8082	350	LF	Furnish and Install Electrical Cable - 2 Conductor (No. 14 A.W.G.)
8083	480	LF	Furnish and Install Electrical Cable - 3 Conductor (No. 14 A.W.G.)
8084	240	LF	Furnish and Install Electrical Cable - 5 Conductor (No. 14 A.W.G.)
8087	900	LF	Furnish and Install Loop Wire Encased In Flexible Tubing (No. 14 A.W.G.)
8088	275	LF	Furnish and Install Saw Cut for Signal (Loop Detector)
8091	35	LF	Furnish and Install 2 Inch Schedule 80 Rigid PVC Conduit - Trenched
~~NEW~~ 8104A	1	EA	Install Breakaway Pedestal Pole (Any Size)

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 + 5	R, ←G	R	R, ←G	R	R	R	R	R	R	FL/Y	FL/Y	DW	DW	DW	DW
1 + 5 CHANGE	R, ←Y	R	R, ←Y	R	R	R	R	R	R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 1 + 6	R	R	G, ←G	G	R	R	R	R	R	DARK	DARK	DW	DW	DW	DW
1 + 6 CHANGE	R	R	G, ←Y	G	R	R	R	R	R	DARK	DARK	DW	DW	DW	DW
PHASE 2 + 5	G, ←G	G	R	R	R	R	R	R	R	FL/Y	FL/Y	WK	WK	DW	DW
2 + 5 CHANGE	G, ←Y	G	R	R	R	R	R	R	R	FL/Y	FL/Y	WK	WK	DW	DW
PHASE 2 + 6	G	G	G	G	R	R	R	R	R	DARK	DARK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	R	R	R	R	R	DARK	DARK	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	DARK	DARK	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	G	G	G	G	G	FL/Y	FL/Y	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	G	G	G	G	G	FL/Y	FL/Y	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	G	G	G	G	G	FL/Y	FL/Y	DW	DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	Y	FL/Y	FL/Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 140 (Reisterstown Rd.) and Mt. Wilson Ln./ Grey Rock Rd.

DRAWN BY: B. DONOWAY	F.A.P. NO.		TS NO. TS-633E	SHEET NO.
CHECKED BY: B. MARTINE	S.H.A. NO.	BA7164056/BSB		
SCALE: NONE	COUNTY: BALTIMORE		T.I.M.S. NO. F049	2 OF 2
DATE: 6/14/02	LOG MILE: 03014002.53			

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