PROJECT DESCRIPTION

GENERAL

THIS PHASE OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND LUTHERVILLE ELEMENTARY SCHOOL DUE TO THE WIDENING OF MD 45. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 45 APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 45.

UPON THE COMPLETION OF THE MD 45 WIDENING PROJECT, PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS THE NORTH, SOUTH, EAST AND WEST LEGS. ACCESSIBLE PEDESTRIAN SIGNALS WILL BE PROVIDED FOR ALL CROSSWALKS.

CONTROLLER REQUIREMENTS

FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FIVE (5) TWO-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

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

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

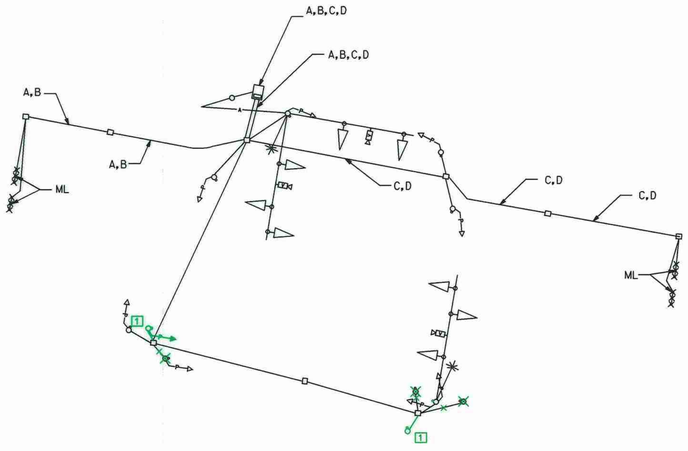
MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

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

WIRING DIAGRAM

A,B, C,D } MICROLOOP PROBE LEAD-IN

ML - MICROLOOP PROBE SET



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
585412	600	LF	12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	150	LF	24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
805160	20	LF	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
3 ~~810550~~ 810555	4	EA	MICROLOOP PROBE, ~~500~~ 1000 FT. LEAD IN CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	* PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5, OR PHASE 2 + 6								DW	DW	DW	DW	DW	DW
PHASE 1 + 6	R	R	G	R	R	R	R	R	DARK	DARK	DARK	DARK	DARK	DARK
1 + 6 CHANGE	R	R	G	R	R	R	R	R	DARK	DARK	DARK	DARK	DARK	DARK
PHASE 2 + 5	R	R	R	R	R	G	R	R	DARK	DARK	DARK	DARK	DARK	DARK
2 + 5 CHANGE	R	R	R	R	R	G	R	R	DARK	DARK	DARK	DARK	DARK	DARK
PHASE 2 + 6	G	G	G	G	G	G	R	R	DW	DW	DW	DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 2 + 6 ALT.	G	G	G	G	R	R	R	R	W	W	W	DW	DW	DW
PED CLEARANCE	G	G	G	G	R	R		R	FL/DW	FL/DW	FL/DW	DW	DW	DW
2 + 6 ALT. CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	G	G	DW	DW	DW	DW	W	W
PED CLEARANCE	R	R	R	R	R	R	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

FINAL

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: TIWEST -

1 GREENLINE REVISION NO. 1 4/30/07

3 RED LINE REVISION NO.3 03/05/10

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MARYLAND 45 (YORK ROAD) WIDENING
CAVAN DRIVE TO RIDGELY ROAD

GENERAL INFORMATION - MD 45 at Lutherville Elementary School

SCALE NONE DATE 3/6/98 CONTRACT NO. BA7065171

DESIGNED BY Jamie Storck
DRAWN BY Jamie Storck
CHECKED BY M.R.
F.A.P. NO. SEE TITLE SHEET

COUNTY BALTIMORE
LOGMILE 03004504.22
T.I.M.S. NO.
TOD NO.

DRAWING NO. SS-23 OF SS-25 SHEET NO. 91 OF 137

PLOTTED: TUESDAY, FEBRUARY 23, 2010 AT 07:44 AM
FILE: I:\4674\18\DESIGN\ENGINEERING\PLANSET\GREENLINE NO 8\SS23MD45 - GREENLINE NO 8.DGN