PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AND OVERHEAD SIGN RELOCATION AT THE INTERSECTION OF MD 7 AND MD 543 (RIVERSIDE PKWY/CRESWELL RD) IN HARFORD COUNTY. MD 7 IS ASSUMED TO RUN IN A EAST–WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT–PHASE, FULLY–ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS OF MD 7 AND AN EXCLUSIVE–PERMISSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS OF MD 543. THE CONTROLLER OPERATION WILL BE CHANGED FROM AN EXCLUSIVE–PERMISSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS OF MD 543 TO AN EXCLUSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT–PHASE, FULLY–ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
315 LF	5 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
60 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
4 EA	WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
1 EA	FOUR–CHANNEL, TIME– DELAY–OUTPUT LOOP DETECTOR AMPLIFIER
18 EA	12 INCH LED SIGNAL HEAD SECTION
3 EA	ELECTRICAL HANDHOLE
615 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT – TRENCHED
65 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT– BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
15 LF	ELECTRICAL CABLE 5 – CONDUCTOR (NO. 14 A.W.G.)
950 LF	ELECTRICAL CABLE 7 – CONDUCTOR (NO. 14 A.W.G.)
35 LF	SAW CUT FOR SIGNAL
2 EA	NON–INVASIVE MICRO–LOOP PROBE WITH LEAD–IN CABLE
4 EA	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
2 EA	R3-5L (30" X 36") SIGN – SPAN WIRE MOUNT
10 LF	1 IN. LIQUID–TIGHT, NON–METALLIC CONDUIT – DETECTOR SLEEVE
2 EA	MICRO–LOOP PROBE WITH LEAD–IN CABLE
1000 LF	12–PAIR VOICE GRADE INTERCONNECT CABLE
1 EA	3/4 IN. X 10 FT. GROUND ROD
150 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
4 EA	TYPE IV CONNECTOR KIT
4 EA	TYPE II CONNECTOR KIT
150 LF	ELECTRICAL CABLE 4 – CONDUCTOR (NO. 2 A.W.G.) 600V DUCT CABLE – DIRECT BURY
325 LF	ELECTRICAL CABLE 1 – CONDUCTOR (NO. 10 A.W.G.)
30 LF	TRENCHING
LS	INSTALL NEW FOUNDATION AND RELOCATE EXISTING OVERHEAD SIGN STRUCTURE, SIGNS AND LUMINAIRES
LS	REMOVE EXISTING CONCRETE SIGN FOUNDATIONS
70 LF	REMOVE EXISTING PAVEMENT MARKING LINE

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787–7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER – TRAFFIC
(410) 229–2380

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
(410) 229–2361

MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
(410) 229–2341

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787–7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787–7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787–7631

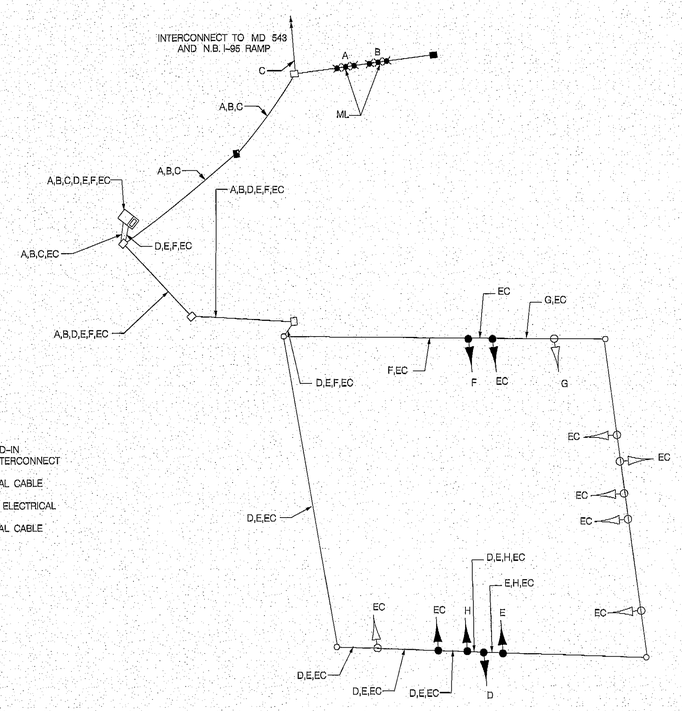
MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787–7668

MR. ED RODENHIZER
CHIEF – SIGNAL OPERATIONS SECTION
(410) 787–7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6															
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	Y	Y	Y	Y	R	R	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	R	R
2 & 5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	R	R
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	R	R
PHASE 3 & 7	R	R	R	R	R	R	R	R	G	G	R	R	G	G	R	R
3 & 7 CHANGE	PHASE 3 & 7 MAY CHANGE TO PHASE 3 & 8, 4 & 7, OR 4 & 8															
PHASE 3 & 8	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R
3 & 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 7	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G
4 & 7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	G	G
PHASE 4 & 8	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G
4 & 8 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	Y	Y
FLASHING OPERATION	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



WIRING KEY

A,B	MICRO–LOOP PROBE LEAD–IN
C	12-PAIR VOICE GRADE INTERCONNECT CABLE
D–F	7–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G	EXISTING 5–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
H	5–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC	EXISTING CABLE
ML	MICRO–LOOP PROBE

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923–7101
FAX: (410) 923–6473
EMAIL: TRAFFIC@TRAFFIC–CONCEPTS.COM

FILE PATH: $FILE$
DATE: $DATE$

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

MD 7 AND MD 543 (RIVERSIDE PKWY/CRESWELL RD)
BELCAMP, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	9–20–10
CONTRACT NO.	BW996M82		
DESIGNED BY	T.ZAYDEL	COUNTY	HARFORD
DRAWN BY	J.K. SCHMID	LOG/MILE	12000709.08
CHECKED BY	K. SCHMID	T.I.M.S. NO.	–
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS–2293G GI	SHEET NO.	2 OF 5

DRILL HOLES