

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 AND WHITE ROCK ROAD /LINTON ROAD IN CARROLL COUNTY. THE WORK IS NECESSITATED BY WIDENING ON THE EAST AND NORTH LEGS OF THE INTERSECTION. MD 26 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF MD 26, CONCURRENT SIDE STREET PHASING AND AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF MD 26. THIS PHASING WILL NOT CHANGE.

**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
1 LS	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
60 LF	12 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
170 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
1 EA	2-WIRE CENTRAL CONTROL UNIT
1 EA	VIDEO INTERFACE EQUIPMENT
6 EA	12 INCH LED SIGNAL HEAD SECTION
2 EA	L.E.D. 16 IN. COUNTDOWN PEDESTRIAN
2 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
5 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	27 FT. MAST ARM POLE & 50 FT. MAST ARM
1 EA	ELECTRICAL HANDHOLE
2 EA	ADJUST EXISTING HANDHOLE TO GRADE
10 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
1 80 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
1 700 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
1 90 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
1 LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
3 EA	VIDEO DETECTION CAMERA AND CABLE
10 SF	DETECTABLE WARNING SURFACE
120 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 A.W.G.)
400 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
190 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
125 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
1 EA	3/4 IN. X 10 FT. GROUND ROD
3 EA	NON-INVASIVE MICRO-LOOP PROBE
1 EA	R3-5L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-6L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	W8-2(4) (30" X 42") SIGN - MAST ARM MOUNT
3 EA	RELOCATE EXISTING OVERHEAD SIGN
2 EA	RELOCATE EXISTING SIGNAL HEAD
1 350 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED

**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.

**PHASE CHART**

PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	R	G	R	G	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6											
PHASE 1 & 6	R	R	R	G	G	R	R	R	R	R	DW	DW
1 CHANGE	R	R	R	G	G	R	R	R	R	R	DW	DW
PHASE 2 & 5	G	G	G	R	R	R	R	R	R	R	DW	DW
2 CHANGE	G	G	G	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEAR	R	R	R	R	R	R	G	G	G	G	FL-DW	FL-DW
4 & 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK

**CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:**

MR. JOHN CONCANNON  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(301) 624-6140/6141

MR. RAYMOND F. JOHNSON  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(301) 624-8105/8106

MS. ANDREA ABEND  
UTILITY ENGINEER  
(301) 624-8115/8116

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY**

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

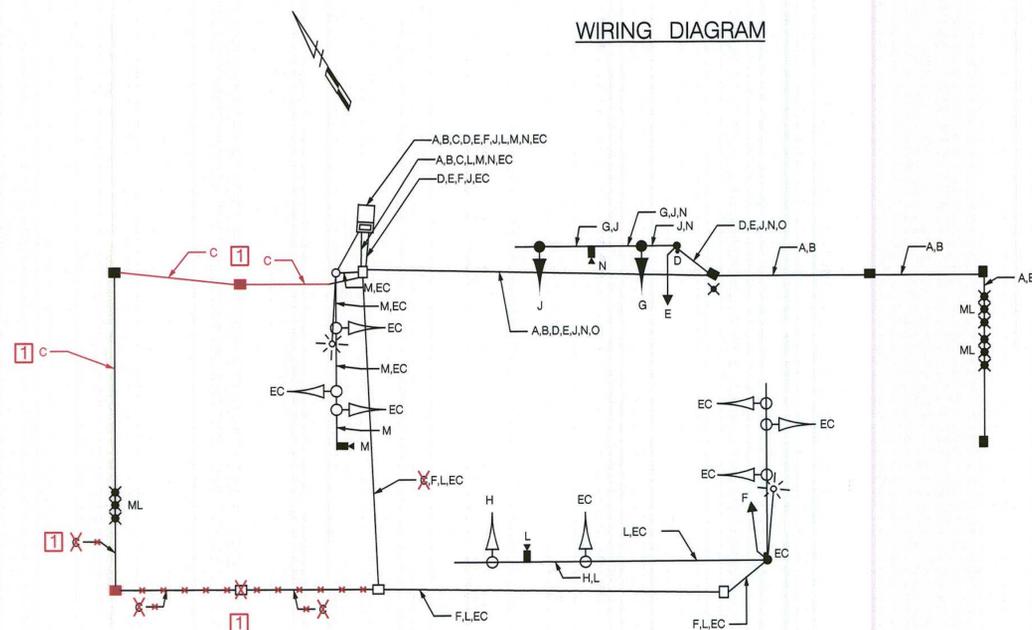
MR. EUGENE BAILEY  
CHIEF - SIGN OPERATIONS  
(410) 787-7676

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

**WIRING DIAGRAM**



**WIRING KEY**

- A-C MICRO-LOOP PROBE LEAD-IN
- D 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E-H 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- L-N VIDEO DETECTION CABLE
- O STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EC EXISTING CABLE
- X GROUND ROD

**RED LINE REVISION NO. 1**

July 7, 2011  
Replace conduit in the northwest corner for detection  
TEDD Approval: [Signature]

**Traffic Concepts, Inc.**  
325 Gambrills Road  
Suite B  
Gambrills, MD 21054  
(410) 923-7101  
FAX: (410) 923-6473  
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**GENERAL INFORMATION PLAN**  
MD 26 AND WHITE ROCK ROAD/  
LINTON ROAD  
FREEDOM, MARYLAND

SCALE NONE DATE 4-28-10 CONTRACT NO. BW996M82

DESIGNED BY T.ZAYDEL COUNTY CARROLL  
DRAWN BY T.ZAYDEL LOGMILE 06002607.94  
CHECKED BY K.SCHMID T.I.M.S. NO. K 213  
F.A.P. NO. NA TOD NO.

DRAWING NO. TS-2409B GI SHEET NO. 2 OF 2