

CONSTRUCTION DETAILS

- A. INSTALL HANDHOLE.
- B. INSTALL AND CAP 1 IN. LIQUID-TIGHT, NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE-SLEEVE).
- C. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- D. INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE).
- E. INSTALL 6 FT. X 6 FT. LOOP DETECTOR, FOUR TURNS.
- F. PROPOSED VIDEO DETECTION ZONE.
- G. REMOVE EXISTING 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE).
- H. USE EXISTING MAST ARM AND RELOCATE EXISTING SIGNAL HEADS AND SIGNS, AS DIRECTED BY THE ENGINEER.
- J. ABANDON EXISTING LOOP DETECTOR.
- K. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD AND CONCRETE FOUNDATION AS SHOWN IN THE CONTRACT DOCUMENTS. (NOTE: 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND). INSTALL CENTER OF POLE AT STA. 599+64, OFFSET 51.3 FT. RT.

Phase Chart

Phase 2 & 5	R	R	R	REMOVED UNDER PHASE 1	<G-	<G-	G	G	R	R/-G	R	R/-G	DARK	←
5 Change	R	R	R		<Y-	<Y-	G	G	R	R/-Y	R	R/-Y	DARK	←
Phase 2 & 6	G	G	G		<R-	<R-	G	G	R	R	R	R	DARK	←
2 & 6 Change	Y	Y	Y		<R-	<R-	Y	Y	R	R	R	R	DARK	←
Phase 4	R	R	R		<R-	<R-	R	R	G	G/-G	G	G/-G	DARK	←
4 Change	R	R	R	<R-	<R-	R	R	Y	Y/-G	Y	Y/-G	DARK	←	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/<R-	FL/<R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	←

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE COMPLETE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT MD 139 (CHARLES STREET) AND TOWSONTOWN BOULEVARD IN BALTIMORE COUNTY. MD 139 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FOUR PHASE FULL-TRAFFIC-ACTUATED MODE WITH THE MD 139 APPROACHES RUNNING CONCURRENTLY. THE TOWSONTOWN BLVD. APPROACH WILL OPERATE ALONE. EXCLUSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE SOUTHBOUND MD 139 APPROACH AND WILL RUN CONCURRENTLY WITH THE TOWSONTOWN BLVD. RIGHT TURN. PEDESTRIAN PHASING WILL BE PROVIDED ACROSS THE EAST LEG OF THE INTERSECTION.

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 WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND TELEPHONE NUMBER.

CONTROLLER REQUIREMENTS

A FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH A VIDEO DETECTION SYSTEM, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, TELEMETRY MODULE, ISOLATION BOARD, SPECIAL RELAY, LOOP DETECTOR AMPLIFIER AND ASSOCIATED HARNESSSES HOUSED IN A NEMA SIZE *6* BASE MOUNTED CABINET WILL BE UTILIZED.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-321-2781 OR 410-321-2885

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

MS. SUENETTE POPE
UTILITIES ENGINEER
410-321-2841

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-321-2764

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

THE POWER COMPANY REPRESENTATIVE:

MR. HENRY SMIT
BGE
410-859-9064
WMS #948109

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE S.H.A.

SPEC. NO.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
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NO SIGNAL EQUIPMENT WILL BE PROVIDED BY THE S.H.A. DURING THIS PHASE OF CONSTRUCTION.

EQUIPMENT LIST "B"

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

SPEC. NO.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104.11	114245	100 L.F.	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS (STOP LINE)
104.11	114275	75 L.F.	REMOVAL OF REMOVABLE PREFORMED PAVEMENT MARKINGS - ANY WIDTH
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	1 C.Y.	TEST PIT EXCAVATION
801	801004	3 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
805	805140	50 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805160	10 L.F.	1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
811	811001	1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
810	818004	1 EA.	10 FOOT BREAKAWAY PEDESTAL POLE
814	860265	4 EA.	RELOCATE EXISTING SIGNAL HEAD
810	861104	1800 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINIUM SHIELDED: NO. 14 A.W.G.)
810	862101	525 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 A.W.G.)
815	862102	250 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
---	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT
---	800000	4 EA.	RELOCATE EXISTING SIGN ON MAST ARM

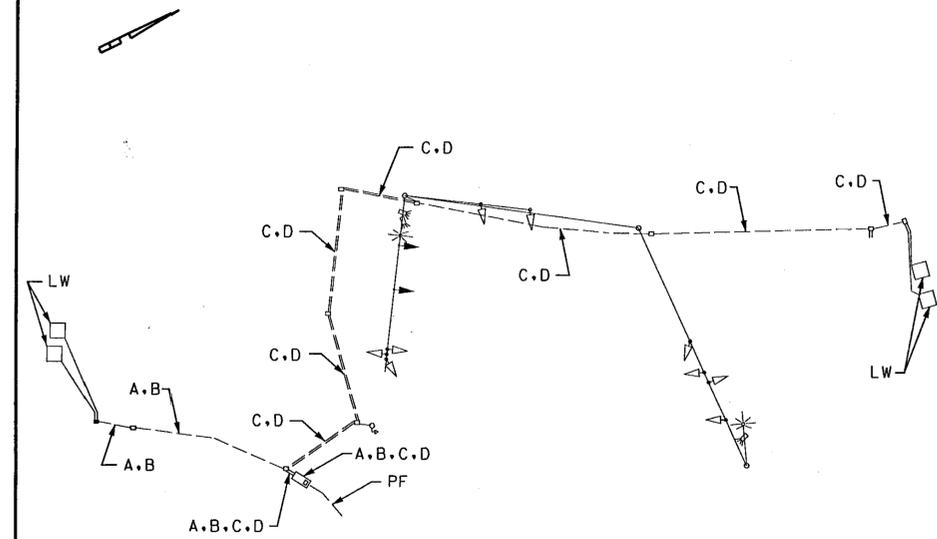
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
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ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

WIRE DIAGRAM



NOTE: THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL UNUSED ELECTRICAL CABLES.

WIRING LEGEND

- A.B.C.D } 2-CONDUCTOR ELECTRICAL CABLE (ALUMINIUM SHIELDED: NO. 14 A.W.G)
- LW - LOOP WIRE (NO. 14 A.W.G)
- PF - EXISTING POWER FEED

PHASE 3
TEMPORARY TRAFFIC SIGNAL SG-7 OF SG-11

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: 410/728-2900 FAX: 410/728-3160

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 139 (CHARLES STREET) AND TOWSONTOWN BLVD.
TOWSON, MARYLAND
GENERAL INFORMATION SHEET

DRAWN BY: S.M.H.	F.A.P. NO. BA 3065176	SEE TITLE SHEET	TS NO. 1042 B
CHECKED BY: B.L.B.	S.H.A. NO. BALTIMORE	COUNTY: BALTIMORE	T.I.M.S. NO. E546
SCALE: NO SCALE	DATE: NOVEMBER 2002	LOG MILE: 03013901.81	SHEET NO. 40 OF 59