

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 702 (SOUTHEAST BOULEVARD) AND EAST HOMBERG AVENUE IN BALTIMORE COUNTY, MARYLAND. MD 702 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 702 APPROACHES OPERATING CONCURRENTLY AND THE EAST HOMBERG AVENUE APPROACHES WILL BE CHANGED TO SPLIT PHASE OPERATION.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 702 APPROACHES. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE SOUTH LEG OF MD 702.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

EAST LEG - MD 702 (SOUTHEAST BOULEVARD) AND EAST HOMBERG AVENUE

WAIT: "WAIT TO CROSS SOUTHEAST AT EAST HOMBERG."*

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
 ** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE DETECTOR RACK WILL BE RETRO-FITTED WITH TWO (2) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

- STANDARD NO. MD-104.04-01 (SHOULDER WORK)
- STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
- STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)
- STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)
- STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
 ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PHONE: (410) 229-2381

MR. ROBERT SYNDER
 ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7631

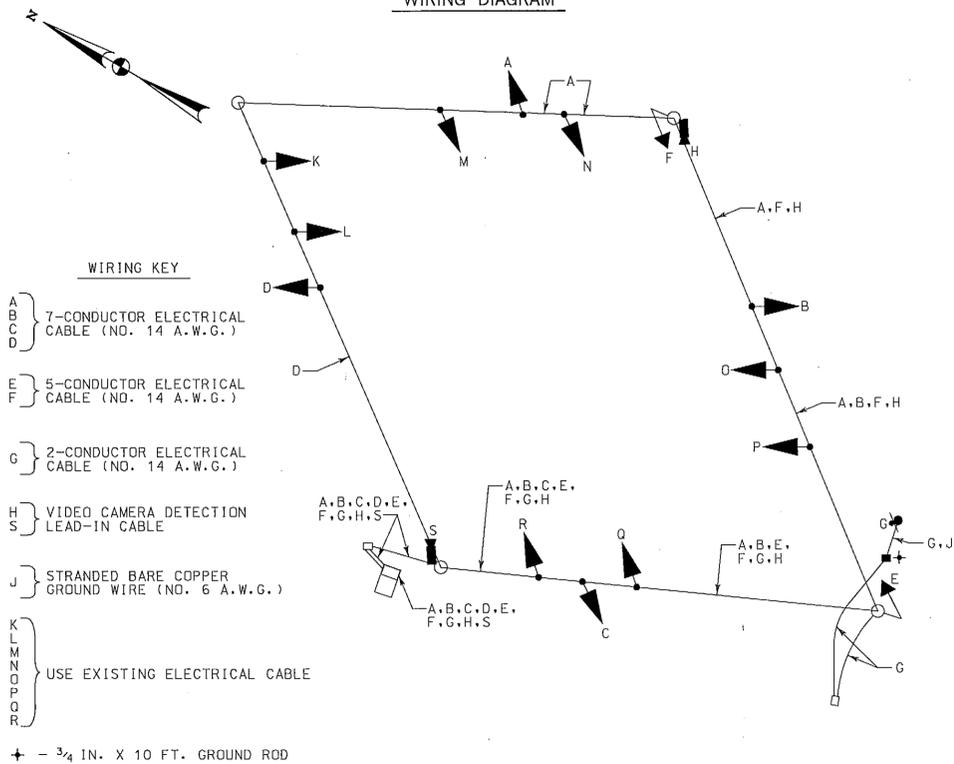
MR. ANDRE FUTRELL
 ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 PHONE: (410) 229-2361

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

MR. MIKE PASQUARIELLO
 ASSISTANT DISTRICT UTILITY ENGINEER
 PHONE: (410) 229-2341

MR. EDWARD RODENHIZER
 CHIEF, SIGNAL OPERATIONS SECTION
 PHONE: (410) 787-7652

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9046	1 EACH	RETRO FIT DETECTOR RACK
9016	3 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	2 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS SOUTHEAST BOULEVARD"

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"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
1003	575 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
2001	1 C.Y.	CLASS 2 EXCAVATION
2002	1 C.Y.	TEST PIT EXCAVATION
5002	630 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5003	45 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6002	360 S.F.	5 INCH CONCRETE SIDEWALK
8001	42 EACH	12 INCH LED SIGNAL HEAD SECTION
8003	1 EACH	2 WIRE CENTRAL CONTROL UNIT
8007	6 EACH	8 INCH LED SIGNAL HEAD SECTION
8010	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8011	1 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8014	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8017	1 EACH	REMOVE AND DISPOSE OF EQUIPMENT
8028	45 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8029	36 S.F.	DETECTABLE WARNING SURFACES
8034	15 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8046	2 S.F.	INSTALL GROUND MOUNTED SIGN
8048	2 EACH	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8054	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8056	340 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8058	590 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8059	935 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

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	R	R	R	R	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6													
PHASE 1 + 6	R	R	R	G	G	G	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	R	R	R	G	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R		
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	G	G	G	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
FLASHING OPERATION	← FLY	← FLY	FLY	← FLY	← FLY	FLY	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

TOD No: XX448-52
 SHA No: BA838A58/B58
 MD 702 @ East Homberg Avenue

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 702 (Southeast Blvd) and East Homberg Avenue
 Essex, Maryland

GENERAL INFORMATION SHEET

SCALE	NONE	ADVERTISED DATE	3/23/2010	CONTRACT NO.	XX4485185
DESIGNED BY	S. Bloss	COUNTY	Baltimore		
DRAWN BY	S. Bloss	LOGMILE	03070202.32		
CHECKED BY	N. Leary	TMS NO.	J703		
F.A.P. NO.		TOD NO.			

WR&A
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