

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AND THE UPGRADING OF SIDEWALK RAMPS AT THE INTERSECTION OF MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) IN HARFORD COUNTY, MARYLAND. MD 924 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA TWO-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 924 APPROACH OPERATING ALONE AND THE MD 22/MD 922E APPROACH OPERATING ALONE.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS BOTH LEGS OF MD 924 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS BOTH LEGS OF MD 22/MD 922E.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 22/MD 922E (CHURCHVILLE ROAD) AND MD 924 (BOND STREET) - EAST LEG

INTERSECTION WITH ANGLED CROSSING

WAIT: "WAIT TO CROSS CROSS CHURCHVILLE AT BOND. CROSSWALK ANGLES LEFT. WAIT." **

WALK: RAPID TICK

MD 22/MD 922E (CHURCHVILLE ROAD) AND MD 924 (BOND STREET) - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS CHURCHVILLE AT BOND. WAIT." *

WALK: RAPID TICK

MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) - NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS BOND AT CHURCHVILLE. WAIT." *

WALK: RAPID TICK

MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) - SOUTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS BOND AT CHURCHVILLE. WAIT." *

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.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	8 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 4 EACH	R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS BOND STREET"
	- 4 EACH	R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS CHURCHVILLE ROAD"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

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)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

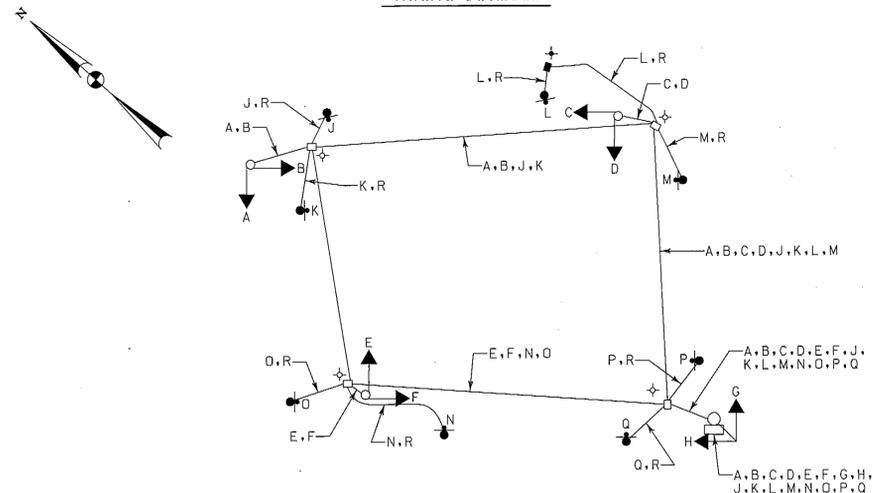
- MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 229-2381
- MR. ROBERT SYNDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631
- MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 229-2361
- MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
- MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 229-2341

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 C.Y.	TEST PIT EXCAVATION
6001	50 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	375 S.F.	5 INCH CONCRETE SIDEWALK
6007	100 S.F.	DETECTABLE WARNING SURFACES
6008	10 S.F.	REMOVE-REINSTALL DECORATIVE BRICK SIDEWALK
8001	1 EACH	2 WIRE CENTRAL CONTROL UNIT
8002	1 EACH	3/4" TO 3" BLIND COUP WELDED & GALVANIZED
8007	8 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8011	8 EACH	INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8013	8 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8021	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8038	8 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	175 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8054	1015 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	915 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

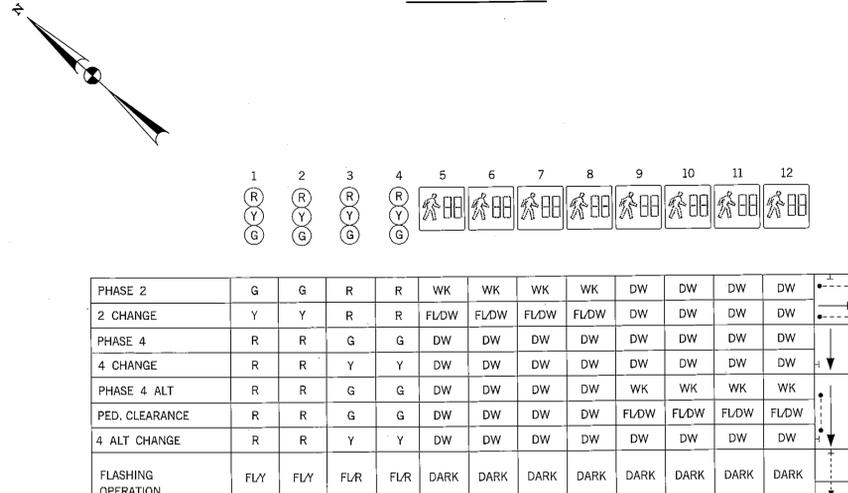
WIRING DIAGRAM



WIRING KEY

- A, B, C, D, E, F, G, H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J, K, L, M, N, O, P, Q } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- R } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- + } 3/4 IN. X 10 FT. GROUND ROD

PHASE CHART



TOD NO: XX347-06
 SHA NO: HA394A51/B51
 MD 924 @ MD 922/MD 22



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

MD 924 (Bond Street) and MD 22/MD 922E (Churchville Road)
 Bel Air, Maryland

GENERAL INFORMATION SHEET

SCALE NONE, ADVERTISED DATE 1/31/2011, CONTRACT NO. XX34751B5
 DESIGNED BY S. Bloss, COUNTY HARFORD
 DRAWN BY S. Bloss, LOGMILE 12092405.51
 CHECKED BY N. Leary, TMS NO. K352
 F.A.P. NO., TOD NO.

TS NO. 1479 D, DRAWING TSP-3 OF 3, SHEET NO. 3 OF 3

