

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS) AND UPGRADING OF PEDESTRIAN SIGNING FOR THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND YARMOUTH ROAD IN BALTIMORE COUNTY, MARYLAND. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE.

2. SPECIAL OPERATION

THE INTERSECTION WILL OPERATE AS INDICATED ABOVE, UNLESS A PUSHBUTTON IS ACTIVATED WHICH WILL STOP ALL APPROACHES.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 45 (YORK ROAD) AND YARMOUTH ROAD - NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS YORK AT YARMOUTH, 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.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

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-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

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

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

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

MR. AVIJIT MAJI
 CHIEF, TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7630

WIRING DIAGRAM

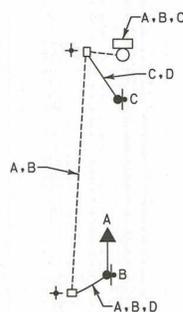
WIRING KEY

A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

B } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

D } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

+ - 3/4 IN. X 10 FT. GROUND ROD



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

| ITEM NO. | QUANTITY | DESCRIPTION |
|-------------------|----------|--|
| 1 9570 | 54 S.F. | SHEET ALUMINUM SIGNS TO CONSIST OF (GROUND MOUNT) : 4 EACH W11-2 SIGN (36 IN. x 36 IN.) GROUND MOUNT 4 EACH W16-7p SIGN (24 IN. x 42 IN.) GROUND MOUNT 1 EACH R1-1 SIGN (36 IN. x 36 IN.) GROUND MOUNT |
| 9571 | 34 S.F. | SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) : - 1 EACH W11-2 (48 IN. x 48 IN.) - MAST ARM MOUNT - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS YORK ROAD" |

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 |
| 1 2001 | 1 C.Y. | CLASS 2 EXCAVATION |
| 2002 | 1 C.Y. | TEST PIT EXCAVATION |
| 1 5004 | 65 L.F. | 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 1 5005 | 15 L.F. | 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 1 6001 | 352 L.F. | STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH |
| 1 6002 | 450 S.F. | 5 INCH CONCRETE SIDEWALK |
| 1 6003 | 40 S.F. | DETECTABLE WARNING SURFACES |
| 8002 | 1 EACH | 2 WIRE CENTRAL CONTROL UNIT |
| 8008 | 2 EACH | AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS |
| 8009 | 2 EACH | BREAKAWAY PEDESTAL POLE (ANY SIZE) |
| 8016 | 1 EACH | LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS |
| 8024 | 1 EACH | REMOVE & DISPOSE MATERIAL & EQUIPMENT (PER ASSIGNMENT) |
| 8040 | 25 L.F. | SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED |
| 1 8041 | 50 L.F. | WOOD SIGN SUPPORTS UP TO 4' X 6' |
| 8042 | 1 34 00 S.F. | INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE) |
| 8044 | 25 L.F. | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 8055 | 145 L.F. | ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) |
| 8057 | 120 L.F. | ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) |

PHASE CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-----|------|------|---|
| NORMAL OPERATION | (R) (Y) (Y) | (R) (Y) (Y) | (R) (Y) (Y) | (R) (Y) (Y) | FLR | FLR | DW | DW | + |
| SPECIAL OPERATION | QUICK 8" FLY | QUICK 8" FLY | QUICK 8" FLY | QUICK 8" FLY | R | R | DW | DW | + |
| | 12" Y | 12" Y | 12" Y | 12" Y | R | R | DW | DW | + |
| | R | R | R | R | R | R | WK | WK | + |
| | R | R | R | R | R | R | FLDW | FLDW | + |
| | R | R | R | R | R | R | DW | DW | + |

NOTE:

FOR SIGNAL HEADS 5 AND 6, THE TOP SIGNAL INDICATION WILL OPERATE DURING NORMAL AND SPECIAL OPERATION. THE BOTTOM SIGNAL INDICATION WILL ONLY FLASH WHEN ACTIVATED BY CONFLICT MONITOR.

1 REDLINE REVISION NO. 1
 REVISED QUANTITIES
 1/15/2013

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 45 (York Road) and Yarmouth Road
 Towson, Maryland

GENERAL INFORMATION SHEET

| | | | | | |
|---------------|-----------------|-----------------|--------------|--------------|----------|
| SCALE | NONE | ADVERTISED DATE | 10/12/2012 | CONTRACT NO. | XY125185 |
| DESIGNED BY | S. Bloss of WRA | COUNTY | Baltimore | | |
| DRAWN BY | S. Bloss of WRA | LOGMILE | 030004501.03 | | |
| CHECKED BY | N. Leary of WRA | TIMS NO. | L057 | | |
| F.A.P. NO. | | TOD NO. | | | |
| TS NO. 3460 C | DRAWING TSP-3 | OF 3 | SHEET NO. 3 | OF 3 | |

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BY: sbloss