

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AT THE INTERSECTIONS OF MD 151 (NORTH POINT BOULEVARD) AND BALTIMORE STREET, EAST POINT MALL NORTH ENTRANCE AND EASTPOINT MALL SOUTH ENTRANCE IN BALTIMORE COUNTY, MARYLAND.

MD 151 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME AT EACH INTERSECTION.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 151 (NORTH POINT BOULEVARD) AND BALTIMORE STREET

1. MD 151 (NORTH POINT BOULEVARD) AND BALTIMORE - SOUTH LEG (PUSHBUTTONS #27 & #28)

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS NORTH POINT AT BALTIMORE, WAIT" *

WALK: RAPID TICK

2. MD 151 (NORTH POINT BOULEVARD) AND BALTIMORE - SOUTH LEG (PUSHBUTTONS #29 & #30)

INTERSECTION WITH ANGLED CROSSING

WAIT: "WAIT TO CROSS NORTH POINT AT BALTIMORE, CROSSWALK ANGLES RIGHT, WAIT" **

MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL NORTH ENTRANCE

1. MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL NORTH ENTRANCE - SOUTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS NORTH POINT AT EASTPOINT MALL, WAIT" *

WALK: RAPID TICK

MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL SOUTH ENTRANCE

1. MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL SOUTH ENTRANCE - NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS NORTH POINT AT EASTPOINT MALL, 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

MD 151 (NORTH POINT BOULEVARD) AND BALTIMORE STREET

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

MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL NORTH ENTRANCE

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

MD 151 (NORTH POINT BOULEVARD) AND EASTPOINT MALL SOUTH ENTRANCE

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	54 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :
		- 10 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS NORTH POINT BLVD"
		- 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - SPAN MOUNT

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-104.02-09 (FLAGGING OPERATION)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)
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) 321-2841	

PHASE CHARTS

THE EXISTING PHASING WILL REMAIN THE SAME AT EACH INTERSECTION.

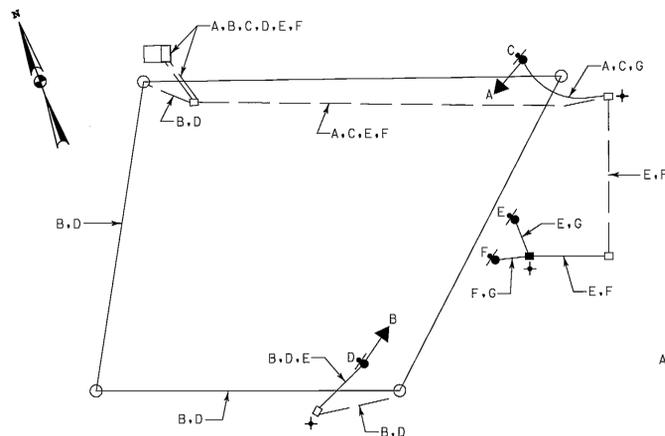
EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	19 C.Y.	CLASS 2 EXCAVATION
2002	8 C.Y.	TEST PIT EXCAVATION
5003	365 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5004	975 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	65 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6001	490 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	2065 S.F.	5 INCH CONCRETE SIDEWALK
6003	170 S.F.	DETECTABLE WARNING SURFACES
8002	3 EACH	2 WIRE CENTRAL CONTROL UNIT
8005	1 EACH	ADJ EXISTING HANDHOLE TO GRADE INCLUDING COLLAR
8008	10 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	9 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8015	6 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8023	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8038	185 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8040	54 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	125 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8053	2610 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8055	1650 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG.	20 L.F.	8 IN. ADS N-12 SOILTIGHT HDPE PIPE
NEG.	4 S.F.	CLASS 0 RIPRAP WITH GEOTEXTILE

WIRING DIAGRAMS

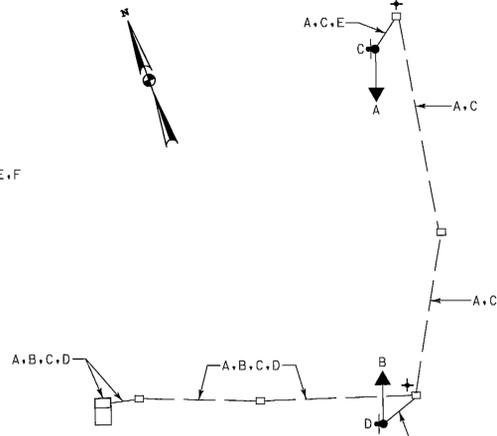
MD 151 AND BALTIMORE STREET



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- + - 3/4 IN. X 10 FT. GROUND ROD

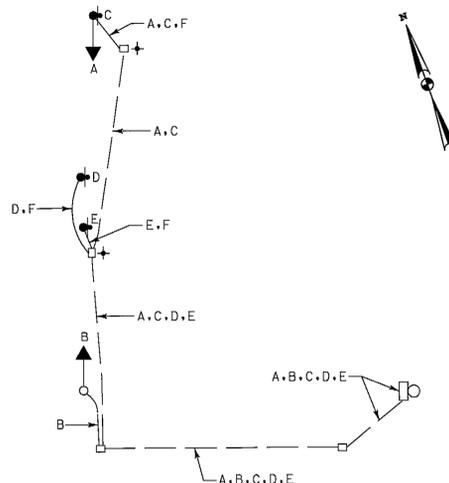
MD 151 AND EASTPOINT MALL NORTH ENTRANCE



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- + - 3/4 IN. X 10 FT. GROUND ROD

MD 151 AND EASTPOINT MALL SOUTH ENTRANCE



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- + - 3/4 IN. X 10 FT. GROUND ROD

TOD NO: XX645-09
SHA NO: BA938857
MD 151: Kane Street to MD 157

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 151 at Baltimore Street and East Point Mall Entrances
Baltimore, Maryland

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 7/29/2011 CONTRACT NO. XX6455185

DESIGNED BY S. Bloss COUNTY Baltimore
DRAWN BY S. Bloss LOGMILE
CHECKED BY N. Leary TMS NO. JB64
F.A.P. NO. TOD NO.

TS NO. DRAWING TSP-7 OF 7 SHEET NO. 7 OF 7

WR&A
WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

PLOTTED: Monday, July 11, 2011 AT 06:40 AM
FILE: N:\91669-181\CADD\p239-1007_md151.dgn

BY: sbloss