PROJECT DESCRIPTION

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THIS PROJECT INVOLVES REPLACING THE EXISTING PEDESTRIAN SIGNALS WITH COUNTDOWN PEDESTRIAN SIGNALS AND INSTALLING AUDIBLE PUSHBUTTONS. MODIFICATIONS INCLUDE REMOVING AND/OR REPLACING THE NORTH-EAST, SOUTH-EAST AND SOUTH-WEST HANDHOLES AND INSTALLING NEW CONDUIT AND IMPACTED CABLES. AND REMOVING AND/OR REPLACING PEDESTRIAN PUSHBUTTONS AND PEDESTRIAN SIGNAL HEADS. MD 176 IS ASSUMED TO RUN IN THE EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING PHASING AT THE INTERSECTION WILL REMAIN.

CONTROLLER REQUIREMENTS

N/A

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 5:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER, TRAFFIC
410-841-1003

MR. JOHN S. MAYS
ASSISTANT DISTRICT ENGINEER, MAINTENANCE
410-841-1013

MR. JOE HARTY
UTILITIES ENGINEER
410-841-1039

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

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

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

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

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 SHA

NONE

EQUIPMENT LIST "C"

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

NONE

SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:

FOR MD 176 DORSEY RD

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS DORSEY AT PASCAL SENIOR CENTER ENTRANCE"

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

FOR PASCAL SENIOR CENTER ENTRANCE

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS PASCAL SENIOR CENTER ENTRANCE AT DORSEY."

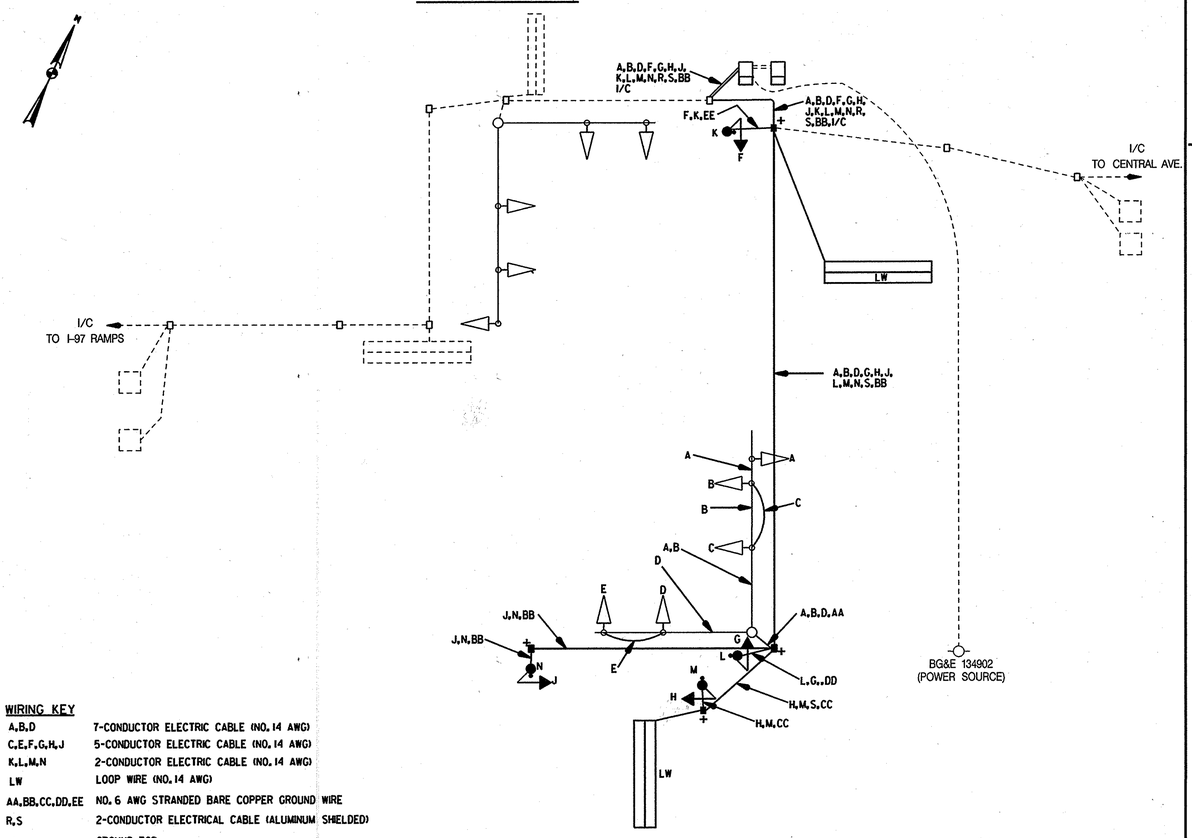
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST "B"

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

AX3745133 ITEMS	CATEGORY CODE NO.	SPECIFICATION NUMBER	QUANTITY	DESCRIPTION
5006	585412	549,556	440 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5007	585412	549,556	35 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	801004	801	1 CY	CONCRETE FOR SIGNAL FOUNDATION
8002	800000	817	4 EA	AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON
8003	818004	818,821	4 EA	BREAKAWAY PEDESTRIAN POLE - ANY SIZE
8004	800000	814	4 EA	16 INCH LED PEDESTRIAN COUNTDOWN SIGNAL HEAD
8005	800000	800	1 EA	REMOVE AND DISPOSE PER ASSIGNMENT
8006	800000	817	4 SF	PEDESTRIAN EDUCATION SIGN
8007	802501	804	350 LF	NO.6 AWG STRANDED BARE COPPER GROUND WIRE
8008	805135	805	120 LF	3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
8009	811001	811	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8011	837001	804	4 EA	GROUND ROD -3/4INCH DIAMETER X 10 FOOT LENGTH
8013	861105	810	770 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8014	861107	810	820 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8016	800000	816	1 EA	APS CENTRAL CONTROL UNIT
8017	862101	810	1040 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8018	862102	815	265 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8022	800000	810,811	550 LF	DISCONNECT, PULL BACK AND REROUTE CABLES
8025	800000	805	1 EA	FURNISH AND INSTALL CONDUIT BEND IN EXISTING FOUNDATION
NEG	805011	805	10 LF	1 INCH ELECTRICAL CONDUIT-GALVANIZED SLEEVE
NEG	805118	805	185 LF	4 INCH SCHEDULE 80 PVC CONDUIT - BORED
NEG	861108	810	750 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
NEG	861104	810	280 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)

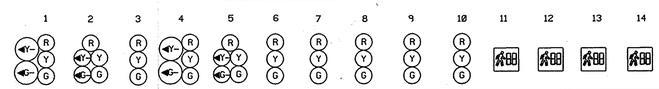
WIRING DIAGRAM



WIRING KEY

A,B,D	7-CONDUCTOR ELECTRIC CABLE (NO. 14 AWG)
C,E,F,G,H,J	5-CONDUCTOR ELECTRIC CABLE (NO. 14 AWG)
K,L,M,N	2-CONDUCTOR ELECTRIC CABLE (NO. 14 AWG)
LW	LOOP WIRE (NO. 14 AWG)
AA,BB,CC,DD,EE	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
R,S	2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
+	GROUND ROD
I/C	REROUTED INTERCONNECT CABLE

PHASING DIAGRAM



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Phase 1 & 5	R G-	R G-	R	R G-	R G-	R	R	R	R	R	DW	DW	DW	DW
Phase 1 & 5 Change	R Y-	R Y-	R	R Y-	R Y-	R	R	R	R	R	DW	DW	DW	DW
Phase 1 & 6	G G-	G G-	G	R	R	R	R	R	R	R	DW	DW	WK	WK
Ped. Clear	G G-	G G-	G	R	R	R	R	R	R	R	DW	DW	FL/DW	FL/DW
Phase 5 Change	G Y-	G Y-	G	R	R	R	R	R	R	R	DW	DW	DW	DW
Phase 2 & 5	R	R	R	G G-	G G-	G	R	R	R	R	DW	DW	DW	DW
Phase 5 Change	R	R	R	G Y-	G Y-	G	R	R	R	R	DW	DW	DW	DW
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	DW	WK	WK
Ped. Clear	G	G	G	G	G	G	R	R	R	R	DW	DW	FL/DW	FL/DW
Phase 2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
Phase 4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
Phase 4 & 8 Alt.	R	R	R	R	R	R	G	G	G	G	WK	WK	DW	DW
Ped. Clear	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	DW	DW
Phase 4 & 8 Alt. Change	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
Flashing operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	Dark	Dark	Dark	Dark

NOTE: NO CHANGE TO EXISTING OPERATION

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

MD 176 (DORSEY ROAD) AT PASCAL SENIOR CENTER /MONSIGNOR SLADE SCHOOL
GLEN BURNIE, MARYLAND

GENERAL INFORMATION SHEET

REVISION & CONSULTANT

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CIVIL AND STRUCTURAL ENGINEERS
110 West Road, Suite 300
Towson, Maryland 21204
(410) 494-9093, (410) 825-5714 Fax
www.WallaceMontgomery.com

SCALE _____ DATE 04/2008 CONTRACT NO. AX3745133

DESIGNED BY R.W.E.
DRAWN BY R.W.E.
CHECKED BY J.L.R.
F.A.P. NO. _____

COUNTY ANNE ARUNDEL
LOGMILE 02017606.67
T.I.M.S. NO. J056
TOD NO. 3359A

DRAWING NO. ---- OF -

SHEET NO. 2 OF 2

PLOTTED: $DATE$
FILE: $FILEL$