PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING SIGNAL TO REPLACE THE EXISTING 8" VEHICULAR TRAFFIC SIGNAL HEADS TO 12", PROVIDE COUNTDOWN PEDESTRIAN SIGNALS AND APS TO CROSS THE WEST LEG OF MD 175 AND THE NORTH LEG OF DORSEY RUN ROAD IN HOWARD COUNTY (HOWARD COUNTY CAPITAL PROJECT J-4182).
THE EXISTING PEDESTRIAN SIGNAL HEADS AND OTHER VEHICULAR TRAFFIC SIGNAL HEADS WILL REMAIN.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

III. CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER SHALL REMAIN.

IV. APS WILL FUNCTION AS FOLLOWS:

FOR MD 175 (DORSEY RUN ROAD)

WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:
"WAIT TO CROSS DORSEY RUN ROAD"
WHEN THE 'WALK' PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE 'WALK' PHASE.

CONTACTS

THE CONTACT PERSON FOR SHA DISTRICT #7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
(301) 624-8140

MS. ANDREA ABEND
ASSISTANT DISTRICT ENGINEER - UTILITY
(301)624-8116

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

MR. EDWARD RODENHIZER
CHIEF TRAFFIC SIGNAL SHOP
(410) 787-7652

MS. SUE PALMER
ASSISTANT DISTRIC ENGINEER - MAINTENANCE
(301) 624-8106

THE POWER COMPANY REPRESENTATIVE IS :
BALTIMORE GAS ELECTRIC COMPANY
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
(410) 859-9060

EQUIPMENT LIST

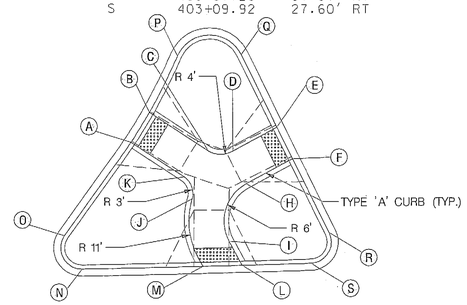
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM NO./ CAT CODE	QUANTITY/UNIT	DESCRIPTION
973023	19 SF	SHEET ALUMINUM SIGN: - 1 EA R10-3(1) (9X15) PUSHBUTTON SIGN - 2 EA R5-1 (36X36) DO NOT ENTER

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

ITEM NO./ CAT CODE	DESCRIPTION	QUANTITY/UNIT	
120500	MAINTENANCE OF TRAFFIC	1	LS
203030	TEST PIT EXCAVATION	2	CY
585621	12" ITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)	262	LF
585625	24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)	72	LF
634300	STANDARD TYPE A COMBINATION CURB & UTTER 12"AN 8" EPTH	147	LF
655105	5" ONCRETE SIDEWALK	1244	SF
655120	DETECTABLE WARNING SURFACE FOR CURB RAMPS	60	SF
585700	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH	98	LF
800000	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS	1	EA
800000	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT	1	LS
800000	LED 16" COUNTDOWN PEDSTRIAN SIGNAL HEADS	1	EA
800000	DISCONNECT, PULL BACK, AND REROUTE	400	LF
801004	CONCRETE FOR SIGNAL FOUNDATION	1	CY
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	190	LF
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	70	LF
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	30	LF
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	130	LF
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	1	EA
811002	REMOVE ELECTRICAL HANDHOLE	1	EA
813014	INSTALL GROUND MOUNTED SIGN	19	SF
819004	10' BREAKAWAY PEDESTAL POLE	1	EA
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	1	EA
860284	12 INCH LED VEHICULAR SIGNAL HEAD SECTION	12	EA
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)	470	LF
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)	500	LF

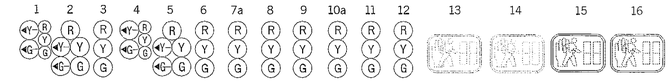
POINT	STATION	OFFSET
A	403+35.45	44.93' RT
B	403+32.80	49.17' RT
C	403+24.39	43.63' RT
D	403+20.94	43.62' RT
E	403+14.63	46.97' RT
F	403+12.45	42.46' RT
I	403+21.57	30.85' RT
H	403+19.07	38.95' RT
J	403+26.78	38.87' RT
K	403+27.89	39.95' RT
L	403+19.74	27.39' RT
M	403+25.34	27.27' RT
N	403+42.54	26.91' RT
O	403+45.03	31.68' RT
P	403+28.72	57.13' RT
Q	403+19.66	57.28' RT
R	403+07.29	31.91' RT
S	403+09.92	27.60' RT



DIVIDER ISLAND SIDEWALK DETAIL
NTS

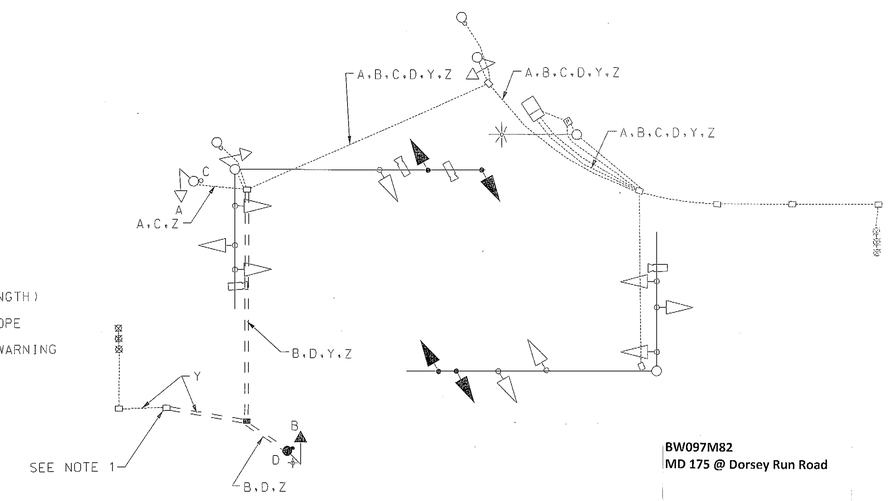
NOTES:
1. PROVIDE MINIMUM 5' LANDING (IN LONGITUDINAL LENGTH) WITH MAXIMUM LONGITUDINAL SLOPE OF 2%.
2. RAMP/SIDEWALK SHALL NOT EXCEED LONGITUDINAL SLOPE OF 5% AND CROSS SLOPE OF 2%.
3. REFER TO SHA STANDARD MD 655.40 FOR DETECTABLE WARNING SURFACE DETAILS.

PHASE CHART



	1	2	3	4	5	6	7a	8	9	10a	11	12	13	14	15	16
PHASE 1 AND 5	◄G/R	◄G/R	R	◄G/R	◄G/R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																
PHASE 1 AND 6	◄G/G	◄G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 6 CHANGE	◄Y/G	◄Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	◄G/G	◄G/G	G	R	R	R	R	R	R	W/K	W/K	DW	DW
PED CLEARANCE	R	R	R	◄G/G	◄G/G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 5 CHANGE	R	R	R	◄Y/G	◄Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	W/K	W/K	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	W/K	W/K
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	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	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



BW097M82
MD 175 @ Dorsey Run Road

KEY

A, B — 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

C, D — 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

Y — EXISTING MICRO-LOOP PROBE LEAD-IN CABLE

Z — 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

⏚ — GROUND ROD

WIRING NOTE:

1. DISCONNECT EXISTING MICRO LOOP PROBE LEAD IN CABLES 'Y' FROM EXISTING CABINET AND PULL BACK TO THE HANDHOLE. RE-ROUTE THROUGH PROPOSED CONDUIT & RECONNECT TO THE EXISTING CABINET.

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

MD 175 (WATERLOO ROAD) AND
DORSEY RUN ROAD G1

TRAFFIC INFOMATION PLAN

SCALE NONE DATE 03/2012 CONTRACT NO.

DESIGNED BY KJS
DRAWN BY HWC
CHECKED BY TAR
F.A.P. NO.
COUNTY HOWARD
LOGMILE 13017500.24
T.I.M.S. NO. K664
TOD NO.

DRAWING NO. TS-1731C | SG - 02 OF 02 | SHEET NO. ### OF ###

PLOTTED: Mar 12, 2012
FILE: c:\02834363\CAD\Traffic\sSG-N001_DRR.dgn

BY: ken_swann