PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 147 AND PUTTY HILL AVENUE IN BALTIMORE COUNTY.
THE MODIFICATION INCLUDES INSTALLATION OF VIDEO DETECTION CAMERAS, LED COUNTDOWN PEDESTRIAN SIGNALS, AND AUDIBLE PUSHBUTTON AND SIGN SYSTEMS.

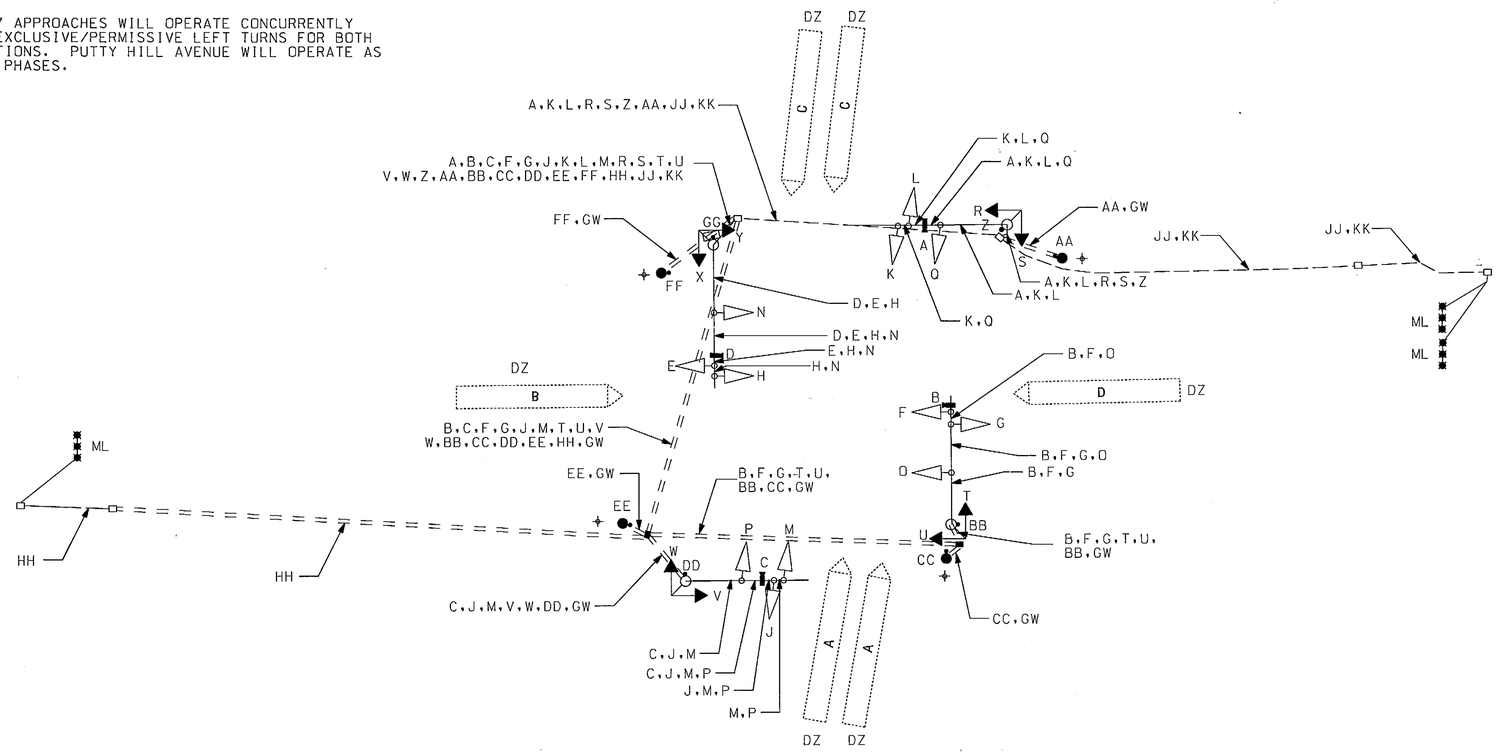
MD 147 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

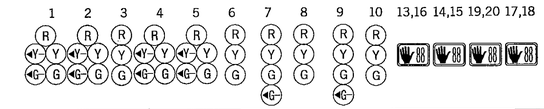
THE INTERSECTION WILL OPERATE IN A SIX-PHASE, FULL-ACTUATED MODE.

MD 147 APPROACHES WILL OPERATE CONCURRENTLY WITH EXCLUSIVE/PERMISSIVE LEFT TURNS FOR BOTH DIRECTIONS. PUTTY HILL AVENUE WILL OPERATE AS SPLIT PHASES.

WIRING DIAGRAM



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	13,16	14,15	19,20	17,18
PHASE 1 AND 5	←G|R	←G|R	R	←G|R	←G|R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, 2 AND 6, OR 2 ALT AND 6														
PHASE 1 AND 6	←G|G	←G|G	G	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	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G|G	←G|G	G	R	R	R	R	DW	DW	DW	DW
5 CHANGE	R	R	R	←Y|G	←Y|G	G	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	R	R	G	R	R	G	R	R	R	R	DW	DW	DW	DW
2 AND 6 CHANGE	R	R	Y	R	R	Y	R	R	R	R	DW	DW	DW	DW
PED CLEARANCE	R	R	G	R	R	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	R	R	Y	R	R	Y	R	R	R	R	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	G/←G	G	R	R	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	G/←G	G	R	R	DW	DW	W/K	W/K
PED CLEARANCE	R	R	R	R	R	R	G/←G	G	R	R	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	R	R	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	G/←G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	G/←G	G	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	G/←G	G	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

WIRING KEY

A, B, C, D	VIDEO DETECTION CABLE
E, F, G, H, J, K, L, M	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
N, O, P, Q, R, S, T, U, V, W, X, Y	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Z, AA, BB, CC, DD, EE, FF, GG	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
HH, JJ, KK	MICROLOOP LEAD-IN
GW	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
DZ	VIDEO CAMERA DETECTION ZONE
⏚	GROUND ROD

T3 design

T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

BY: amym

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

MD 147 HARFORD ROAD AND
PUTTY HILL AVENUE

REVISIONS

△3 ADDENDUM NUMBER 5
12 /12 /06

GENERAL INFORMATION SHEET

SCALE NONE DATE 12 /12 /2006 CONTRACT NO. BA6835184

DESIGNED BY AJM
DRAWN BY JRL
CHECKED BY PAT
F.A.P. NO.

COUNTY BALTIMORE
LOGMILE
T.I.M.S. NO.
TOD NO.

DRAWING NO. SG - 2.08 OF 2.12

SHEET NO. 242 OF 291

PLOTTED: Wednesday, December 06, 2006 AT 02:14 PM
FILE: Z:\Project\05-0003 WRA MdSHA\Task 02 Harford Rd\CADD\06-PS&E Plans\pSG-P008_MD7.dgn