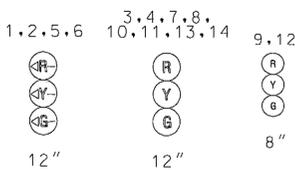


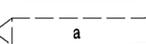


US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNALS



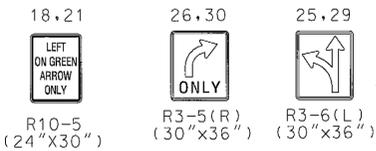
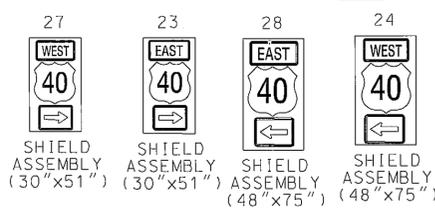
VIDEO ZONE DETECTION



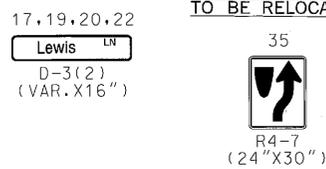
EXISTING VIDEO DETECTION CAMERAS



EXISTING SIGNS



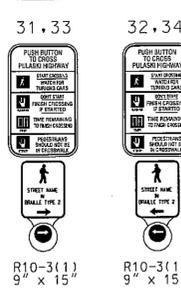
EXISTING SIGN TO BE RELOCATED



EXISTING OPTICOM DETECTOR EYE



PROPOSED SIGNS



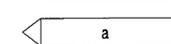
PROPOSED SIGNALS



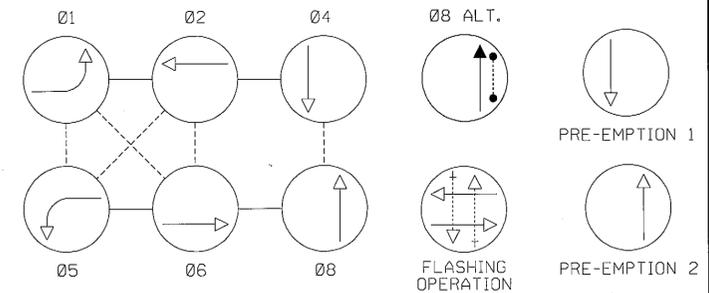
PROPOSED VIDEO DETECTION CAMERAS



VIDEO ZONE DETECTION



NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

TO ABERDEEN, MD

US 40 (Pulaski Highway)

US 40 (Pulaski Highway)

TO HAVRE DE GRACE, MD

CONSTRUCTION DETAILS

- A. USE EXISTING MAST ARM STEEL POLE. INSTALL VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS PULASKI HIGHWAY").
- B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01. COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS PULASKI HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
- C. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS PULASKI HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
- D. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS PULASKI HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
- E. INSTALL HANDHOLE.
- F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- H. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- J. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.
- K. USE EXISTING MAST ARM POLE. INSTALL VIDEO DETECTION CAMERA AS SHOWN.
- L. USE EXISTING HANDHOLE.
- M. USE EXISTING CONDUIT.
- N. REMOVE EXISTING HANDHOLE.
- O. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- P. REMOVE EXISTING PAVEMENT MARKING - CROSSWALK.
- Q. RELOCATE EXISTING R4-7 SIGN AND SUPPORT. R4-7 SIGN SHALL BE INSTALLED AT 15 DEGREE ANGLE WITH LINE OF MAJOR STREET.

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
7. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
8. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNIT 1. A DESIGN WAIVER IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNIT 1. A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
9. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS.

TOD NO: XY125-04
SHA NO: HA400852
US 40 @ Lewis Lane



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 40 (PULASKI HIGHWAY) AND LEWIS LANE
HAVRE DE GRACE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20'	DATE 09/25/1981	CONTRACT NO. H 671-501-471
DESIGNED BY	COUNTY HARBOR	
DRAWN BY THOMAS ZAYDEL	LOGMILE 12004017.17	
CHECKED BY	TIMS NO.	
F.A.P. NO.	TOD NO.	
TS NO. 1836 D	DRAWING TSP-1	OF 2
	SHEET NO.	1 OF 2



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

APPROVALS	REVISIONS
TEAM LEADER	① INSTALL APS/CPS ON EAST LEG OF US 40. SHA NO. XY1255185 TMS #1170. 07-15-2008
ASST. DIV. CHIEF	② INSTALL OPTICOM DETECTOR EYE SHA NO. XX4485185 TMS # 1841 07-09-2008
DIVISION CHIEF	③ REBUILD TRAFFIC SIGNAL AND ADD INTERCONNECT 03-10-1999
OFFICE DIRECTOR	

PLOTTED: March 14, 2012
FILE: N:\1868-203\CADD\p8g-P001_L170.dgn