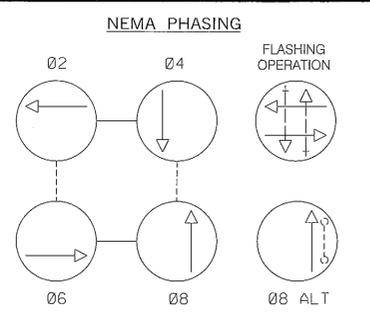
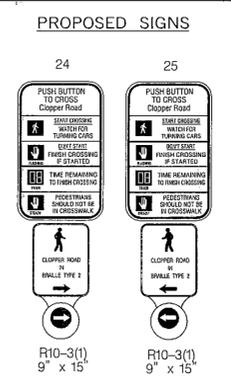
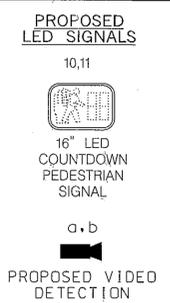
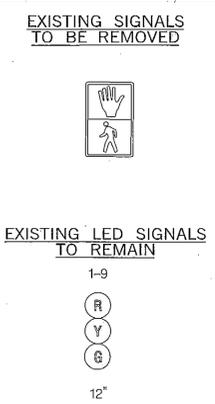
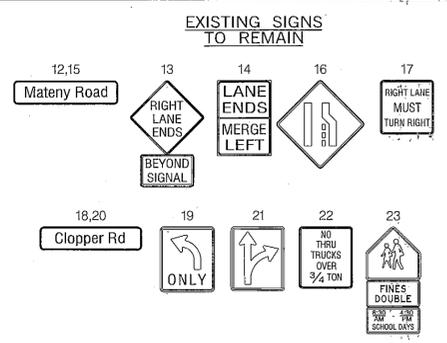


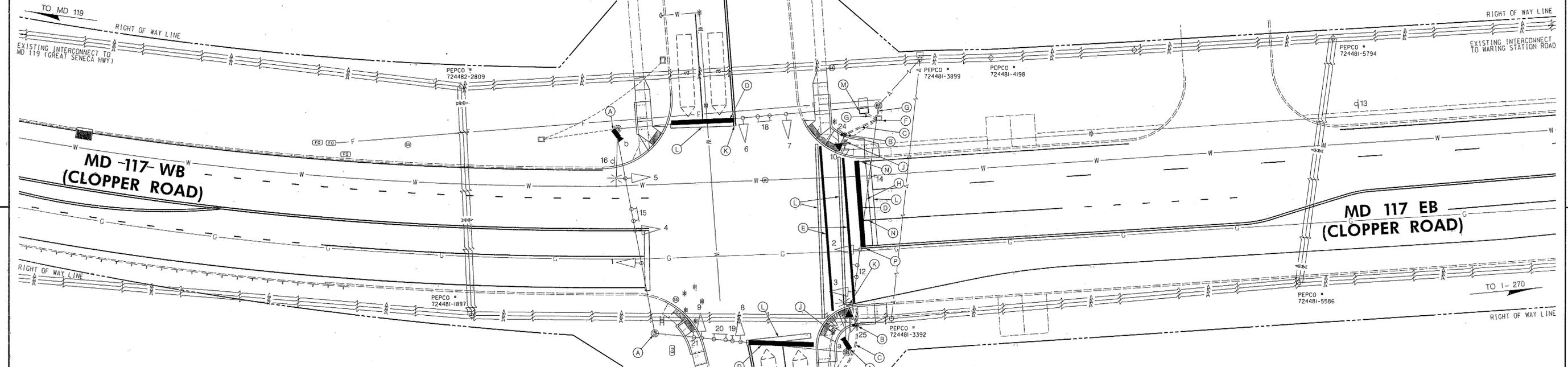


MD 117 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION



PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



**CONSTRUCTION DETAILS:**

- INSTALL NEW VIDEO DETECTION CAMERAS ON EXISTING LIGHTING ARM.
- INSTALL 10" PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), MODIFIED BASE, COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- USE EXISTING SPAN WIRE.
- REMOVE EXISTING PEDESTRIAN POLE WITH ALL ATTACHED EQUIPMENT, CAP AND ABANDON EXISTING CONDUIT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- REMOVE EXISTING PAVEMENT MARKING LINES TO NEW CROSSWALK OR STOP LINES.
- REMOVE EXISTING PAVEMENT MARKING LINES.
- USE EXISTING CABINET AND CONTROLLER.
- INSTALL 5 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
- INSTALL 5 IN. YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.

**GENERAL NOTES:**

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 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.
- 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.
- THE CONTRACTOR SHALL CONTACT MR. ROBERT RICKETTS (301) 279-1291 AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK TO ARRANGE DELIVERY OF EQUIPMENT FOR TESTING TO MONTGOMERY COUNTY TECHNICAL CENTER, 1283 SEVEN LOCKS ROAD ROCKVILLE, MD 20854. THE CONTRACTOR SHALL DELIVER APS EQUIPMENT, THE APS.WAV FILES (MESSAGES PROGRAMMED FROM THE FACTORY) AND CENTRAL CONTROL UNIT.
- THE CONTRACTOR SHALL WORK ONE QUADRANT AT A TIME AND MAINTAIN PEDESTRIAN ACCESSIBILITY TO ALL OTHER QUADRANTS.
- THE CONTRACTOR SHALL NOT DEACTIVATE OR MAKE ACTIVE ANY PEDESTRIAN SIGNAL WITHOUT COORDINATING WITH THE MONTGOMERY COUNTY TRAFFIC ENGINEER.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 117 (CLOPPER ROAD)  
AND MATENY ROAD  
GERMANTOWN, MD

**GEOMETRIC LEGEND**

--- EXISTING  
--- PROPOSED

**UTILITY LEGEND**

- SD STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- S SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
- T TELEPHONE CABLES
- F FIBER-OPTIC CABLES

APPROVALS	REVISIONS
TEAM LEADER	08/2013 TMS-M055 SHA NO. X2385185 INSTALL APS/CPS, UPGRADE EX. SIGNAL HEADS TO LED
ASST. DIR. CHIEF	CW [Signature]
DIVISION CHIEF	08-27-1987 SHA NO. M-602-509-385 UPGRADE EX. FLASHER TO 4 PH. SEMI ACT. SIGNAL
OFFICE DIRECTOR	RZ

**SIGNALIZATION PLAN SHEET**

SCALE 1" = 20' ADVERTISED DATE 5/14/1980 CONTRACT NO. AW-537-501-385

DESIGNED BY PEGGY KNABE COUNTY MONTGOMERY  
DRAWN BY PEGGY KNABE LOGMILE 15011708.55  
CHECKED BY TIMS NO. N/A  
F.A.P. NO. TOD NO. N/A

TS NO. 1764B DRAWING SG-1 OF 3 SHEET NO. 1 OF 3

**BAI** BRUDIS & ASSOCIATES, INC.  
Consulting Engineers

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www.brudis.com

BY: fanyong