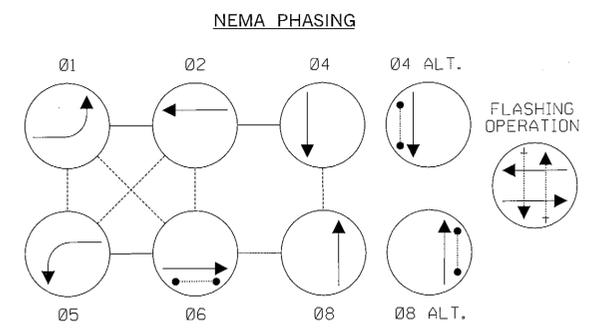
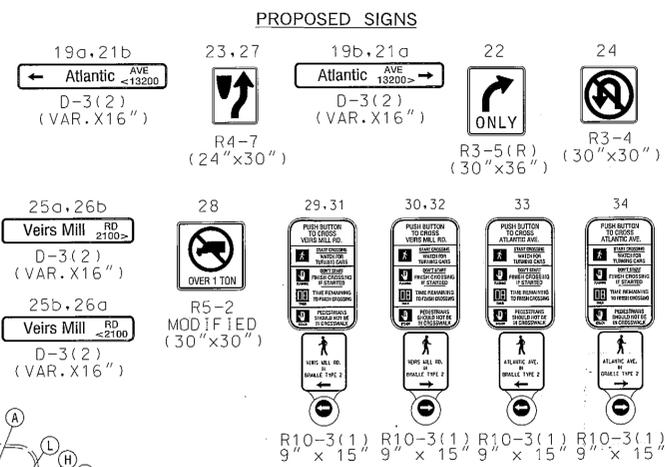
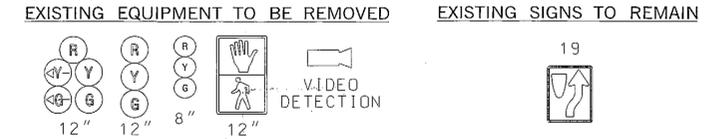
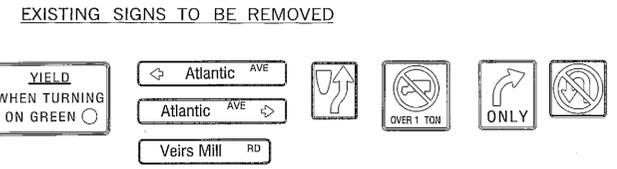
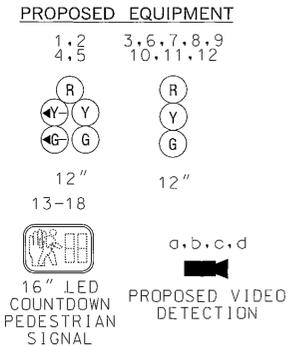


**TWINBROOK SHOPPING CENTER**



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



MD 586 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

TO MD 28

**MD 586 (VEIRS MILL RD.)**

**MD 586 (VEIRS MILL RD.)**

TO MD 185

UTILITY HEIGHTS:  
 PRIMARY - 36.8'  
 SECONDARY - 26.2'  
 COMMUNICATION - 20.7'

UTILITY HEIGHTS:  
 PRIMARY - 39.5'  
 SECONDARY - 28.0'  
 COMMUNICATION - 21.5'

**GENERAL NOTES:**

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA 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 (EXCLUDING INTERCONNECT) 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 SHOULD NOTIFY MR. KAMAL HAMUD AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AT THE INTERSECTION.
- THE CONTRACTOR SHOULD DELIVER THE APS PUSH BUTTONS TO MR. KEITH LORD AT THE MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK.
- THERE IS MONTGOMERY COUNTY FIBER OPTIC CABLE IN THIS AREA, LASHED TO THE I/C IN SPOTS. ALL I/C WORK SHOULD BE COORDINATED WITH MR. KEITH LORD TO ENSURE PROPER HANDLING OF THE I/C AND FIBER.

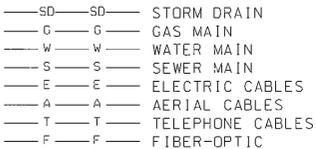
**CONSTRUCTION DETAILS:**

- INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH 50 FT. MAST ARMS WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. INSTALL COUNTDOWN PEDESTRIAN SIGNAL AND MONTGOMERY COUNTY SPLICE CABINET WITH A SLIP FITTER TO BE SUPPLIED BY MONTGOMERY COUNTY (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND)
- INSTALL CONCRETE FOUNDATION FOR A 16' 6" STEEL POLE (STD. NO. 818.13-01) WITH A 50 FT. MAST ARM WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND)
- INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH 38 FT. MAST ARMS WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND)
- INSTALL CONCRETE FOUNDATION FOR A 16' 6" STEEL POLE (STD. NO. 818.13-01) WITH A 50 FT. MAST ARM WITH LED TRAFFIC SIGNAL HEADS, SIGN, VIDEO DETECTION CAMERA AND 15 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE AS SHOWN. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND)
- INSTALL 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), AND MODIFIED BASE, COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL NEMA 6 BASE-MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN. (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC SCHEDULE 80 BENDS)
- INSTALL METERED SERVICE PEDESTAL EMBEDDED.
- INSTALL HANDHOLE.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT, PROVIDE CONDUIT BEND AT THE BASE OF THE UTILITY POLE WITH PULL STRING - TRENCHED.
- INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- INSTALL 10' PEDESTAL POLE (CUT TO 5 FT.) WITH BREAKAWAY COUPLINGS (MD 818.16-01), AND MODIFIED BASE, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PAVEMENT PERFORMED LINE MARKINGS.
- INSTALL GROUND MOUNTED SIGN(S) AND 4" X 4" WOOD SUPPORT. (WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARD MD 812.05-01 AND MD 812.05-02)
- PULL BACK INTERCONNECT CABLE, DEAD END THEN RUN OVER TO NEW MAST ARM POLE. INSTALL 3' WEATHER HEAD ON NEW MAST ARM POLE.
- PULL BACK AND REDIRECT EXISTING INTERCONNECT CABLE TO THE NEW CABINET THROUGH THE NEW HANDHOLES AND CONDUITS.
- REMOVE EXISTING SIGNAL CABINET 12 IN. BELOW GRADE.
- REMOVE EXISTING SIGNAL POLE AND SPAN WITH ALL ATTACHED EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GROUND GRADE.
- REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- REMOVE EXISTING HANDHOLE.
- REMOVE EXISTING SIGN AND POSTS.
- REMOVE EXISTING PAVEMENT MARKING.
- REMOVE CROSS HATCHING IN EXISTING CROSSWALK.

**GEOMETRIC LEGEND**



**UTILITY LEGEND**



APPROVALS	REVISIONS
TEAM LEADER ASSY. CIV. CHIEF DIVISION CHIEF OFFICE DIRECTOR	① 3/10 TMS NO. J551 SHA NO. X3515168 TRAFFIC SIGNAL RECONSTRUCTION WITH APS/CPS UPGRADE X.M. [Signature] ② 2/05 TMS NO. 0593 SHA NO. M071755/859 REPLACED LOOP DETECTION WITH VIDEO CAMERAS J.A.

**BAI BRUDIS & ASSOCIATES, INC.**  
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**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 MD 586 (VEIRS MILL RD) AND ATLANTIC AVENUE  
 TRAFFIC SIGNAL RECONSTRUCTION  
 ROCKVILLE, MD

**SIGNALIZATION PLAN SHEET**

SCALE 1"=20' ADVERTISED DATE 04/20/1978 CONTRACT NO. M-297-501-385

DESIGNED BY	R.T.	COUNTY	MONTGOMERY
DRAWN BY	B.T.	LOGMILE	15058801.25
CHECKED BY		TMS NO.	J551
F.A.P. NO.		TOD NO.	M0717-08

TS NO. 804B DRAWING -- OF SHEET NO. 1 OF 3