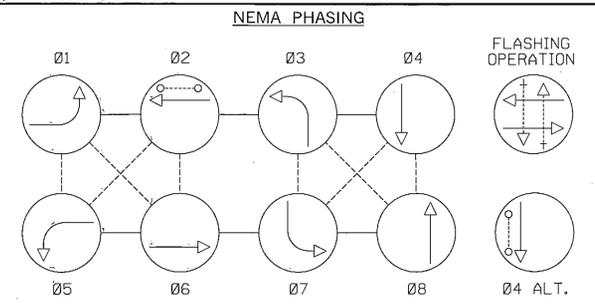
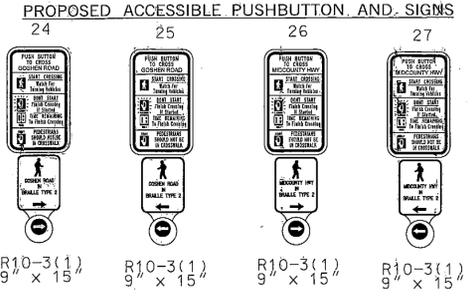
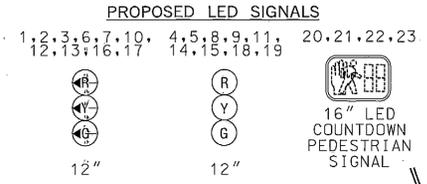
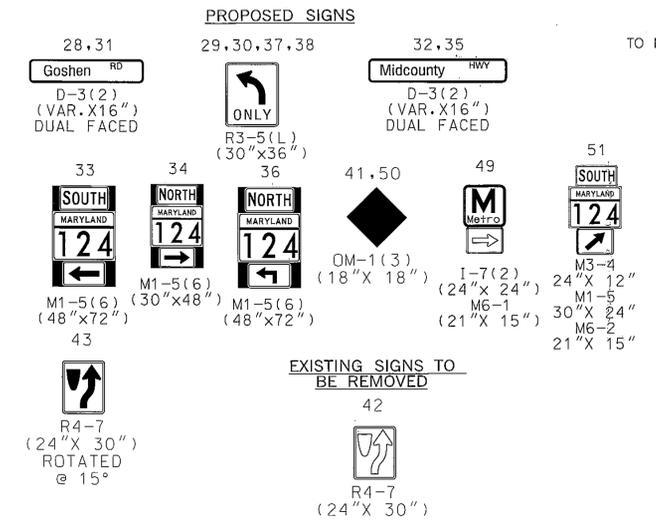


MD 124 IS ASSUMED TO RUN IN A NORTHSOUTH DIRECTION

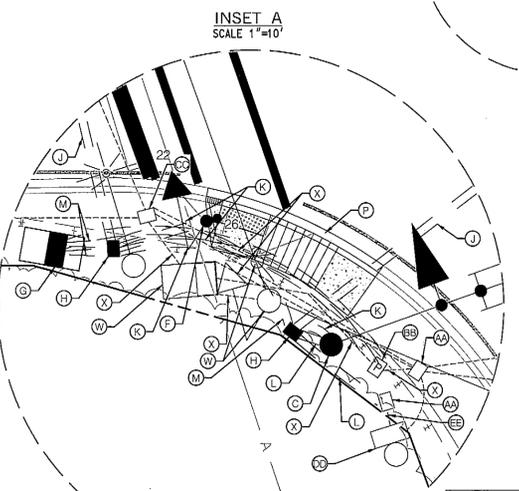


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

- GENERAL NOTES:**
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
 - THE CONTRACTOR SHALL VERIFY ALL RAMP AND PUSHBUTTON LOCATIONS PRIOR TO INSTALLATION.
 - EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION. THE CONTROLLER AND AUXILIARY EQUIPMENT SHALL BE RETURNED TO MONTGOMERY COUNTY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. MONTGOMERY COUNTY FORCES WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
 - THE CONTRACTOR IS TO REMOVE AND REPLACE THE CONCRETE SIDEWALK AT THE NEAREST JOINT.
 - THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 - ALL SIGNAL POLE FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 - WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
 - IF THE LOCATION OF THE ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTONS MUST BE CHANGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO OBTAIN APPROVAL FOR THE NEW LOCATION TO ENSURE MUTCD SEC 4E.08, 4E.10, FIG. 4E-3, 4E-4 AND ALL NCHRP REQUIREMENTS ARE MET. ALL WORK MUST BE HALTED UNTIL THE PROJECT ENGINEER HAS OBTAINED AN APPROVED LOCATION OR A DESIGN WAIVER IS OBTAINED.
 - THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
 - PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
 - THE CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO NEW SIDEWALK AND RAMP CONSTRUCTION.
 - THE CONTRACTOR SHALL INTEGRATE PROPOSED EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMP WHERE NECESSARY.
 - THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL EQUIPMENT REMAINS OPERATIONAL UNTIL PROPOSED EQUIPMENT IS OPERATIONAL.
 - PLACE 24 IN. WIDE DETECTABLE WARNING SURFACE ALONG THE FULLY DEPRESSED PORTION OF THE PROPOSED RAMPS. THE MAT SHALL NOT EXTEND ONTO THE SIDE FLARES.
 - CONTRACTOR IS TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION STAGES.
 - ALL CROSSWALK DIMENSIONS ARE GIVEN AS OUT TO OUT MEASUREMENTS.
 - PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA WITHOUT NEEDING TO REACH MORE THAN 18" A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
 - SEE SHEET SG-02 FOR EQUIPMENT LAYOUT AND DETAILS.
 - THE CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND CENTRAL CONTROL UNIT TO MR. ROBERT RICKETTS AT MONTGOMERY COUNTY TECHNICAL CENTER AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AND MR. ROBERT RICKETTS 72 HOURS IN ADVANCE OF INTENDED WORK.
 - DISCONNECTING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE PROPOSED INTERCONNECT CABLE INTO THE EXISTING SPLICE CABINET AND PROPERLY TAG THE CABLES. ALL SPLICE BOX CONNECTIONS WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT MR. KAMAL HAMUD AT (240) 777-8761 ONE WEEK IN ADVANCE OF INTENDED WORK FOR WIRING OF INTERCONNECT.
 - THE CONTRACTOR SHALL CONTACT MIKE KINNEY OF MONTGOMERY COUNTY AT 240-770-8760 AT LEAST 2 WEEKS PRIOR TO THE START OF CONSTRUCTION TO COORDINATE ANY WORK INVOLVING RED LIGHT RUNNING CAMERA EQUIPMENT.

CONSTRUCTION NOTES:

- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 70 FT. MAST ARM WITH LED SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS. (NOTE: 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT WITH 90 DEGREE BEND).
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 38 FT. MAST ARM WITH LED SIGNAL HEADS, SIGNS, POLE MOUNTED SHIELD ASSEMBLY, LED LUMINAIRE ON 20 FT. LIGHTING ARM, AND VIDEO DETECTION CAMERAS. (NOTE: 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT WITH 90 DEGREE BEND).
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 50 FT. MAST ARM WITH LED SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS. (NOTE: 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT WITH 90 DEGREE BEND).
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 50 FT. MAST ARM WITH LED SIGNAL HEADS, SIGNS, POLE MOUNTED SHIELD ASSEMBLY, LED LUMINAIRE ON 20 FT. LIGHTING ARM, AND VIDEO DETECTION CAMERAS. (NOTE: 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT WITH 90 DEGREE BEND).
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS, FOUNDATION (SHA STD. 801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS GOSHEN RD." (NOTE: 1-2 IN. SCHEDULE 80-90 DEGREE PVC BEND).
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS, FOUNDATION (SHA STD. 801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS MIDCOUNTY HWY." (NOTE: 1-2 IN. SCHEDULE 80-90 DEGREE PVC BEND).
- INSTALL NEMA TYPE 'S' BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE 2-2 IN. AND 2-4 IN. SCHEDULE 80-90 DEGREE PVC BENDS.)
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT MD STD. 655.12 SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE MD STD. 655.40.
- INSTALL PEDESTRIAN RAMP PER DETAILS ON SHEET SG-02.
- RED LIGHT RUNNING CAMERA EQUIPMENT TO BE RELOCATED BY OTHERS.
- REMOVE EXISTING GROUND MOUNTED SIGN.
- INSTALL PROPOSED SIGN ON 4 IN. X 4 IN. WOOD POST.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (FOR CROSSWALK).
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (FOR STOP LINE).
- REMOVE EXISTING PAVEMENT MARKINGS.
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- CAP & ABANDON EXISTING CONDUIT.
- CUT AND ABANDON EXISTING LOOP DETECTOR.
- REMOVE EXISTING HANDHOLE.
- AA. USE EXISTING HANDHOLE.
- BB. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) TO EXISTING METERED SERVICE PEDESTAL STUB CUT BASE FOR FINAL CONNECTION (WITH PULLSTRING).
- CC. EXISTING HANDHOLE TO REMAIN.
- DD. EXISTING MONTGOMERY COUNTY SPLICE CABINET.
- EE. USE EXISTING CONDUIT.
- FF. INSTALL STANDARD TYPE A CURB AND GUTTER PER DETAIL B ON SG-02.



- VIDEO CAMERA LOCATION AND ALIGNING SHALL BE COORDINATED WITH THE MONTGOMERY COUNTY ENGINEER.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTO CELL.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.

<p>RJM ENGINEERING, INC. CONSULTING ENGINEERS ELLCOTT CITY, MARYLAND</p>	<p>UTILITY LEGEND</p> <p>—SD—SD— STORM DRAIN —G—G— GAS MAIN —W—W— WATER MAIN —S—S— SEWER MAIN —E—E— ELECTRIC CABLES —A—A— AERIAL CABLES —T—T— TELEPHONE CABLES —F—F— FIBER-OPTIC</p>	<p>APPROVALS</p> <p>YEAR LEADER ASST. DIR./CHIEF DIVISION CHIEF OFFICE DIRECTOR</p>	<p>REVISIONS</p> <p>① SIGNALIZATION RECONSTRUCT XY2385185 TMS#005 092013 CSANT 1527 → M.L.P. C.W. D. TMS # L263 BW31314183 04/30/12 M.L.P. M.L.P. M.L.P. C. ADDED DOUBLE LEFT TURN FOR NB MD 124 CONTRACT NO. M03705176 2/07/06 TZ FCB JAH MAR WH TH</p>	<p>TRAFFIC SIGNALIZATION PLAN</p> <p>SCALE 1" = 20' ADVERTISED DATE 02/01/1999 CONTRACT NO. _____</p> <p>DESIGNED BY M.A.M. COUNTY MONTGOMERY DRAWN BY M.A.M. COUNTY 15012404.92 CHECKED BY D.DODA TMS NO. _____ F.A.P. NO. _____ TOD NO. _____</p> <p>TS NO. 2413E DRAWING SG-01 OF 03 SHEET NO. 1 OF 3</p>
	<p>PLOTTED: Thursday, August 08, 2013 AT 04:28 PM FILE: P:\SHA\MD 124 Signal\MD 124 at Goshen Road\2013-07 PS&E\p503-MD124-GoshenRfd.dgn</p>			

BY: Nathan