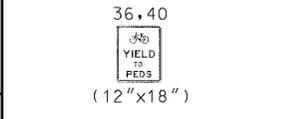


MD 108 (OLNEY LAYTONSVILLE ROAD) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION

EXISTING SIGNS TO BE REMOVED

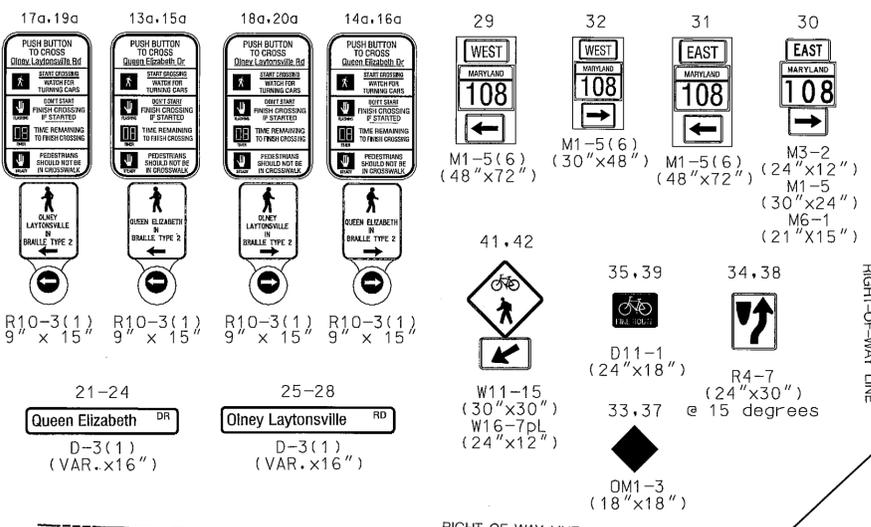


EXISTING SIGNS TO BE RELOCATED

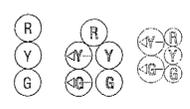


NOTE: REFER TO DIMENSION DETAILS PLAN SHEET FOR PROPOSED EQUIPMENT DIMENSIONS.

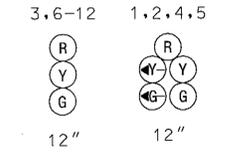
PROPOSED SIGNS



EXISTING SIGNALS TO BE REMOVED



PROPOSED LED SIGNALS



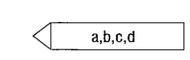
LED SIGNALS TO BE RELOCATED



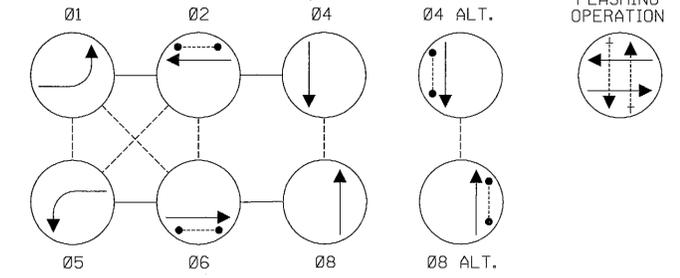
PROPOSED VIDEO CAMERA



VIDEO DETECTION ZONE



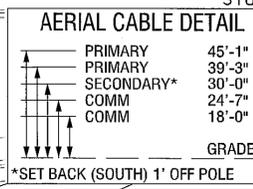
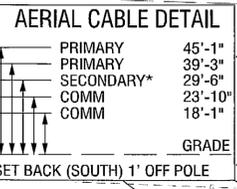
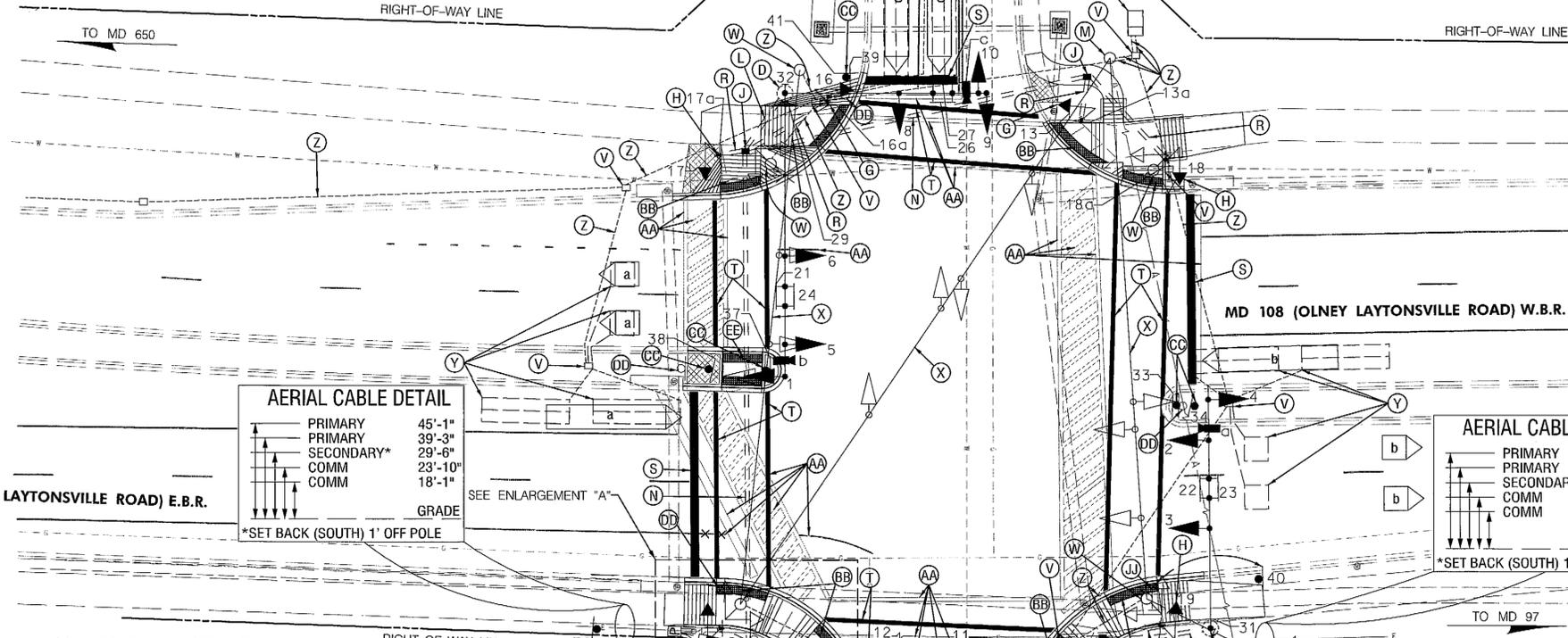
NEMA PHASING



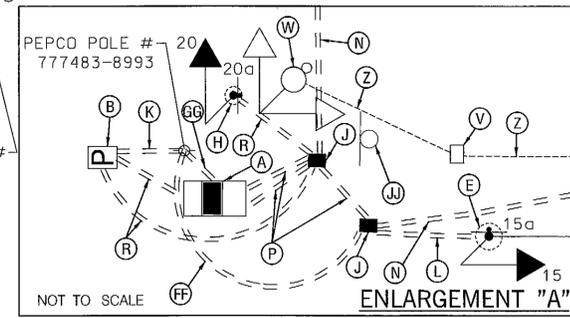
NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS (CONTINUED)

- K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
- L. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- M. REMOVE EXISTING POLE, ELECTRICAL SERVICE EQUIPMENT, ANY ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. THE PEDESTRIAN SIGNALS SHALL BE RELOCATED TO THE PROPOSED LOCATIONS SHOWN ON THE PLANS.
- N. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- P. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- R. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
- T. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- V. REMOVE EXISTING HANDHOLE AND BACKFILL.
- W. REMOVE EXISTING POLE, ANY ASSOCIATED EQUIPMENT AND FOUNDATION 24 IN. BELOW GRADE AND BACKFILL. THE PEDESTRIAN SIGNALS SHALL BE RELOCATED TO THE PROPOSED LOCATIONS SHOWN ON THE PLANS.
- X. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
- Y. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- Z. CAP AND ABANDON EXISTING CONDUIT.
- AA. REMOVE EXISTING PAVEMENT MARKINGS.
- BB. REMOVE EXISTING SIDEWALK AND / OR RAMP AND INSTALL NEW SIDEWALK AND / OR RAMP AND DETECTABLE WARNING SURFACE AS SHOWN. SEE RAMP DETAIL SHEET FOR MORE DETAIL.
- CC. INSTALL GROUND MOUNTED SIGN(S) ON A SINGLE WOOD (4" X 4") SUPPORT.
- DD. REMOVE EXISTING GROUND MOUNTED SIGN AND POST.
- EE. REMOVE EXISTING SIDEWALK AND MEDIAN CUT THROUGH AND CONSTRUCT NEW MEDIAN CUT THROUGH WITH DETECTABLE WARNING SURFACE. SEE RAMP DETAIL SHEET FOR MORE DETAIL.
- FF. INSTALL 3 IN. PVC SCHEDULE 80 CONDUIT FOR INTERCONNECT CABLE. STUB UP AT BASE OF UTILITY POLE. MONTGOMERY COUNTY FORCES TO MAKE FINAL CONNECTION.
- GG. INSTALL 2 IN. PVC SCHEDULE 80 CONDUIT FOR TELEPHONE DROP. STUB UP AT BASE OF UTILITY POLE. UTILITY COMPANY TO MAKE FINAL CONNECTIONS.
- HH. PULL BACK INTERCONNECT CABLE FROM EXISTING CABINET TO PEPCO POLE #777483-0090. REROUTE EXISTING CABLE TO PEPCO POLE #777483-8993 AND INTO THE PROPOSED CABINET.
- JJ. RELOCATE EXISTING BICYCLE SIGN FROM EXISTING POST TO NEW WOOD (4" X 4") SUPPORT. REMOVE EXISTING STOP SIGN AND POST.



- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH A TYPE S BASE MOUNTED CABINET AND CONTROLLER. (NOTE: TWO-4 IN. AND TWO-2 IN. PVC SCHEDULE 80, 90-DEGREE BENDS). CABINET SHALL BE INSTALLED SO AS TO NOT BLOCK THE "PERSPECTIVE WOODS" SIGN.
 - B. INSTALL 100 AMP METERED SERVICE PEDESTAL. (NOTE: ONE-4 IN. AND THREE-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS)
 - C. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER, AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
 - D. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT./ 70 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, LED LUMINAIRE AND VIDEO DETECTION CAMERAS. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - E. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 36 FT. MAST ARM USING 3 SHIM PLATES (PER TYPICAL NO. 818.12-01) WITH SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, RELOCATED 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS QUEEN ELIZABETH DR"), AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND). CONTRACTOR SHALL ATTACH SIGNAL HEADS SO THAT THE COMMUNICATION WIRES BLOCK THEM AS LITTLE AS POSSIBLE.
 - F. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. STEEL POLE WITH A 15 FT. SPECIAL-T DIMENSION WITH A SINGLE 60 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - G. INSTALL MODIFIED (18" X 3' DEPTH, PER STD. MD 801.01) CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (AS PER STDS. MD 801.01-01 AND MD 818.16-01), RELOCATED 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS QUEEN ELIZABETH DR"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
 - H. INSTALL MODIFIED (18" X 3' DEPTH, PER STD. MD 801.01) CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (AS PER STDS. MD 801.01-01 AND MD 818.16-01), RELOCATED 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS OLNEY LAYTONSVILLE RD"), AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND). CONTRACTOR TO HAND DIG FOUNDATION.
 - J. INSTALL HANDHOLE.
- GEOMETRIC LEGEND**
- EXISTING
 - PROPOSED
- UTILITY LEGEND**
- STORM DRAIN
 - GAS MAIN
 - WATER MAIN
 - SEWER MAIN
 - ELECTRIC CABLES
 - AERIAL CABLES
 - TELEPHONE CABLES
 - FIBER-OPTIC



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APPROVALS		REVISIONS	
TEAM LEADER		REBUILD SIGNAL AND APCPCS UPGRADES	08-2013
ASST. DIV. CHIEF		SHA NO. XY238105	TMS NO. 1035
DIVISION CHIEF		SHA NO. M805-501-371	05-1993
OFFICE DIRECTOR		A RECONSTRUCT DUE TO NEW PLAN GEOMETRICS	

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 108 (OLNEY LAYTONSVILLE ROAD) AT QUEEN ELIZABETH DRIVE
OLNEY, MARYLAND

TRAFFIC SIGNAL PLAN			
SCALE: 1" = 20'	ADVERTISED DATE: 9/21/2009	CONTRACT NO. _____	
DESIGNED BY: R.R. ZACHERL	COUNTY: MONTGOMERY		
DRAWN BY: S.S. BARANOWSKI	LOGMILE: 15010812.64		
CHECKED BY: _____	TMS NO. _____		
F.A.P. NO. _____	TOD NO. _____		
TS NO. 3119	DRAWING: SG-01	OF 04	SHEET NO. 1 OF 4