

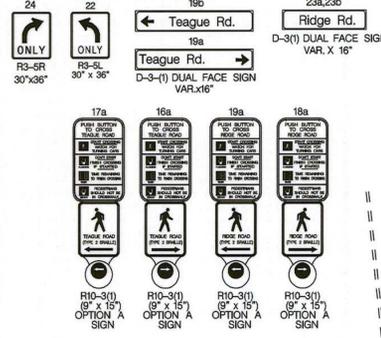


MD 713 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

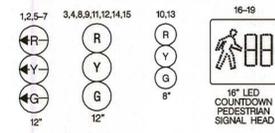
EXISTING SIGNS



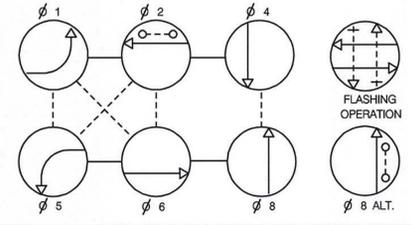
PROPOSED SIGNS



PROPOSED SIGNALS



NEMA PHASING

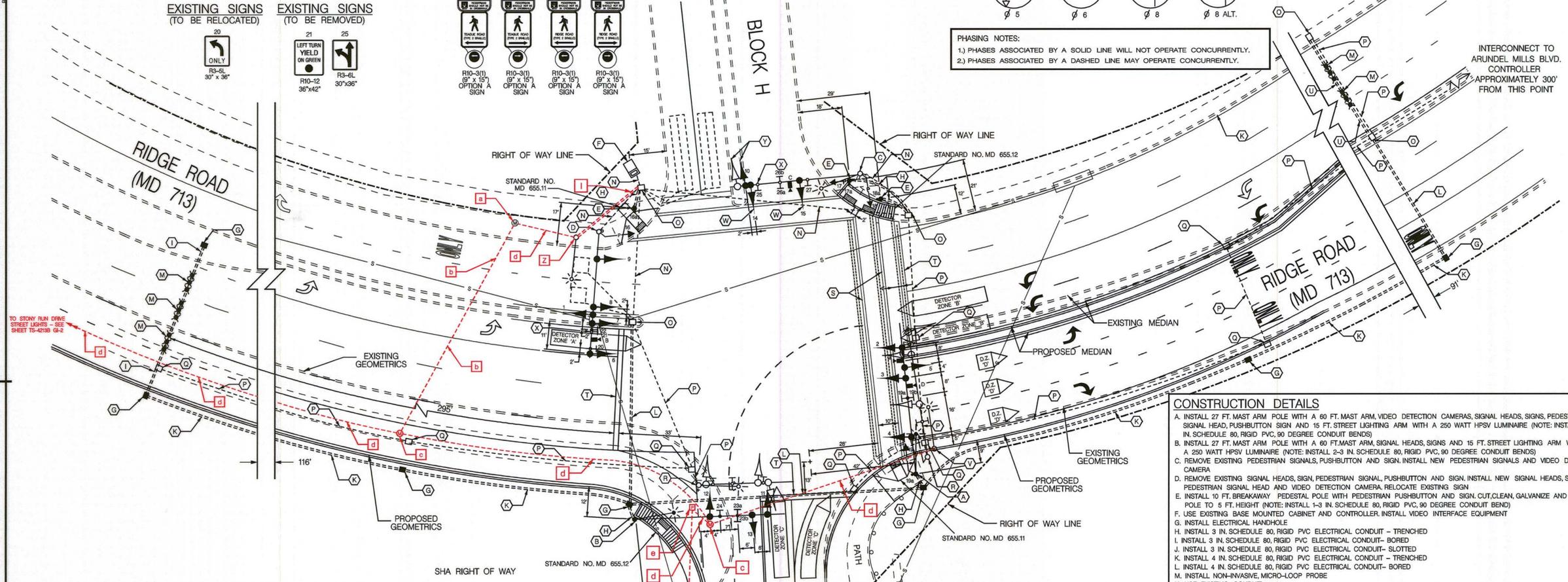


PHASING NOTES: 1) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY. 2) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

PROPOSED VIDEO DETECTION CAMERAS



INTERCONNECT TO ARUNDEL MILLS BLVD. CONTROLLER APPROXIMATELY 300' FROM THIS POINT



TO STONY RUN DRIVE STREET LIGHTS - SEE SHEET TS-4218B G1-2

GENERAL NOTES

- 1. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL... 2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY... 3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE... 4. ALL INTERNAL CABINET WIRING TO BE PERFORMED BY THE STATE HIGHWAY ADMINISTRATION SIGNAL SHOP... 5. THE CONTRACTOR SHALL REMOVE ALL UNUSED CABLE... 6. FOR ADDITIONAL SIGNING AND PAVEMENT MARKING SEE PLAN SHEETS TS-4218B G1-1 AND G1-2... 7. INSTALL CONDUIT AND DETECTION PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS... 8. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK... 9. THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT... 10. PUSHBUTTONS ARE TO BE LOCATED SO 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%... 11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF THE PUSHBUTTON, NOT CENTER TO CENTER OF POLE... 12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED... 13. 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 LOCATION UNTIL A DESIGN WAIVER IS OBTAINED AND APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY... 14. ALL APS CENTRAL CONTROL UNITS SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR PROGRAMMING AND TESTING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7650 TO COORDINATE.

GEOMETRIC LEGEND and UTILITY LEGEND tables.

RED LINE REVISION NO. 1 November 14, 2011 Revise Street Lighting Electric Service TEDD Approval: [Signature]

- Z. USE EXISTING STREET LIGHT
a. ABANDON EXISTING ELECTRIC MANHOLE
b. ABANDON EXISTING LIGHTING CONDUIT
c. REMOVE EXISTING ELECTRIC MANHOLE
d. DISCONNECT AND ABANDON EXISTING LIGHTING DUCT CABLE
e. EXISTING ELECTRIC SERVICE PEDESTAL TO BE REMOVED BY BGE

CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH A 60 FT. MAST ARM, VIDEO DETECTION CAMERAS, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON SIGN AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HPSV LUMINAIRE... B. INSTALL 27 FT. MAST ARM POLE WITH A 60 FT. MAST ARM, SIGNAL HEADS, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HPSV LUMINAIRE... C. REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGN. INSTALL NEW PEDESTRIAN SIGNALS AND VIDEO DETECTION CAMERA... D. REMOVE EXISTING SIGNAL HEADS, SIGN, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN. INSTALL NEW SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEAD AND VIDEO DETECTION CAMERA. RELOCATE EXISTING SIGN... E. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN PUSHBUTTON AND SIGN. CUT, CLEAN, GALVANIZE AND CAP POLE TO 5 FT. HEIGHT... F. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL VIDEO INTERFACE EQUIPMENT... G. INSTALL ELECTRICAL HANDHOLE... H. INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - TRENCHED... I. INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - BORED... J. INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - SLOTTED... K. INSTALL 4 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - TRENCHED... L. INSTALL 4 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - BORED... M. INSTALL NON-INVASIVE, MICRO-LOOP PROBE... N. USE EXISTING CONDUIT... O. USE EXISTING HANDHOLE... P. CAP AND ABANDON EXISTING CONDUIT... Q. REMOVE EXISTING HANDHOLE... R. REMOVE EXISTING MAST ARM POLE, MAST ARM AND ALL ASSOCIATED EQUIPMENT... S. INSTALL 12 IN. SOLID WHITE, HEAT APPLIED, PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE... T. INSTALL 24 IN. SOLID WHITE, HEAT APPLIED, PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE... U. INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - SLOTTED... V. REMOVE EXISTING STEEL POLE AND LUMINAIRE... W. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEAD IN SAME LOCATION. USE EXISTING WIRING... X. REMOVE EXISTING OVERHEAD SIGN... Y. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEAD AS SHOWN. USE EXISTING WIRING.

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 713 (RIDGE ROAD) AND TEAGUE ROAD / ARUNDEL MILLS H-BLOCK

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APPROVALS and REVISIONS table.

TRAFFIC SIGNAL PLAN table with scale, date, contract no., and designer information.