

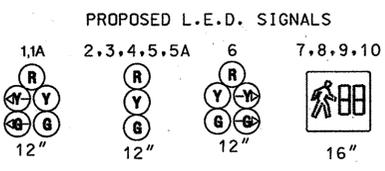
DRILL HOLES

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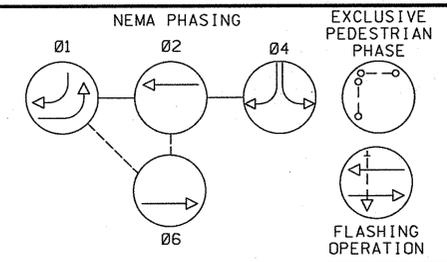
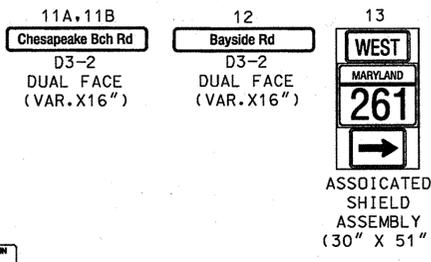
DRILL HOLES

BORDER REV. DATE: MARCH 8, 2005

MD 261 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



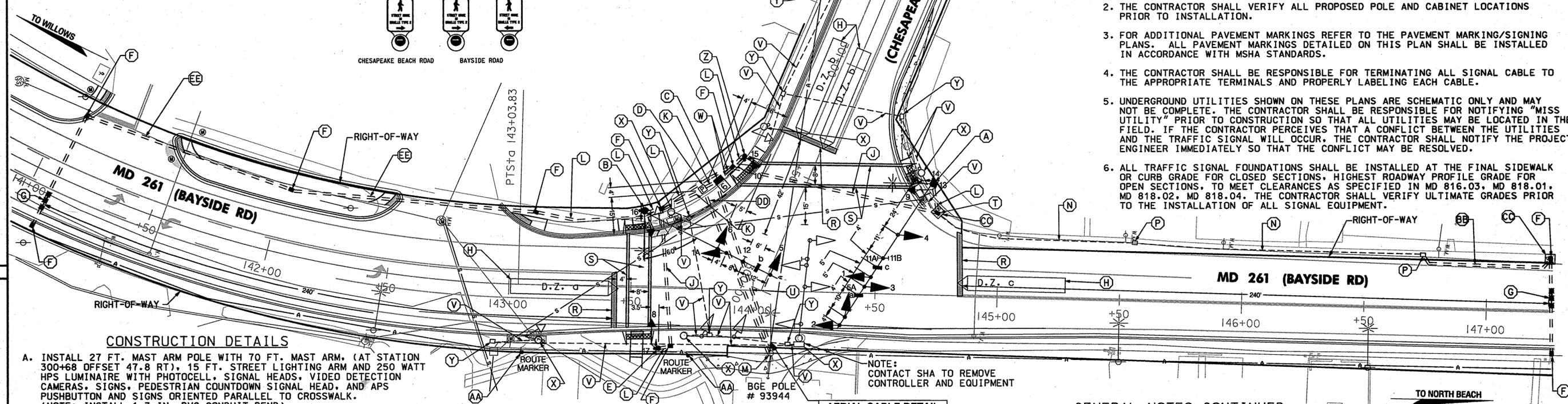
PROPOSED SIGNS



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

GENERAL NOTES

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR ADDITIONAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING/SIGNING PLANS. ALL PAVEMENT MARKINGS DETAILED ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
5. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
6. 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.



CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM. (AT STATION 300+68 OFFSET 47.8 RT), 15 FT. STREET LIGHTING ARM AND 250 WATT HPS LUMINAIRE WITH PHOTOCCELL, SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, PEDESTRIAN COUNTDOWN SIGNAL HEAD, AND APS PUSHBUTTON AND SIGNS ORIENTED PARALLEL TO CROSSWALK. (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
B. INSTALL 27 FT. MAST ARM POLE WITH A 60 FT. MAST ARM (AT STATION 143+55 OFFSET 31.7 LT), 15 FT. STREET LIGHTING ARM AND 250 WATT HPS LUMINAIRE WITH PHOTOCCELL, SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, PEDESTRIAN COUNTDOWN SIGNAL HEAD, AND APS PUSHBUTTON AND SIGNS ORIENTED PARALLEL TO CROSSWALK. (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
C. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC CONDUIT BENDS). USE PROPOSED SIDEWALK AS CABINET PAD
D. INSTALL METERED SERVICE PEDESTAL
E. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN COUNTDOWN SIGNAL HEAD, APS PUSHBUTTON AND SIGNS (ORIENTED PARALLEL TO CROSSWALK) AT STATION 143+62 OFFSET 25 RT. (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
F. INSTALL ELECTRICAL HANDHOLE
G. INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 3 IN. CARRIER PIPE, BORED
H. PROPOSED VIDEO DETECTION ZONE
J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
K. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
L. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
M. STUB CONDUITS AT POLE BASE, BGE & VERIZON TO MAKE FINAL CONNECTIONS
N. USE EXISTING CONDUIT
P. USE EXISTING HANDHOLE

CONSTRUCTION DETAILS CONTINUED

- R. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
S. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
T. INSTALL ELECTRICAL HANDHOLE OVER EXISTING CONDUIT
U. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED (PHONE DROP)
V. CAP AND ABANDON EXISTING CONDUIT (PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO "REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT")
W. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
X. REMOVE EXISTING SIGNAL POLE, ASSOCIATED EQUIPMENT AND POLE FOUNDATION
Y. REMOVE EXISTING HANDHOLE
Z. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN COUNTDOWN SIGNAL HEAD, PEDESTRIAN COUNTDOWN SIGNAL HEAD, AND APS PUSHBUTTON AND SIGNS (ORIENTED PARALLEL TO CROSSWALK) AT STATION 300+48.4, OFFSET 27.9 LT. (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND)
AA. PROPOSED ROUTE MARKER - SEE SIGNING PLANS
BB. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
CC. 4 IN. CONCRETE SIDEWALK
DD. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED - 5 FT DEPTH (POWER FEED)
EE. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED

AERIAL CABLE DETAIL table with columns for cable type (PRIMARY, GUY, TELEPHONE) and dimensions (35' 2", 28' 10", 20' 0", 18' 10", 18' 7").

GENERAL NOTES CONTINUED

- 7. ALL CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF FINAL PAVEMENT SURFACE.
8. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
9. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
10. ALL UNUSED ELECTRICAL CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
11. TRAFFIC SIGNAL HEADS SHALL BE SHIFTED AS REQUIRED FOR MAINTENANCE OF TRAFFIC SEQUENCING.
12. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7652.

GEOMETRIC LEGEND and UTILITY LEGEND tables. GEOMETRIC LEGEND shows EXISTING and PROPOSED lines. UTILITY LEGEND shows symbols for STORM DRAIN, GAS MAIN, WATER MAIN, SEWER MAIN, ELECTRIC CABLES, AERIAL CABLES, TELEPHONE CABLES, and FIBER-OPTIC.

ADDENDUM NO. 2 3/30/06 REPLACES SHEET 104

RUMMEL, KLEPPER & KAHL, LLP CONSULTING ENGINEERS 81 MOSHER STREET BALTIMORE, MARYLAND 21217

APPROVALS table with columns for TEAM LEADER, ASST. DIV. CHIEF, DIVISION CHIEF, OFFICE DIRECTOR.

REVISIONS table with columns for description, date, and initials.

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 260 (CHESAPEAKE BEACH RD) AND MD 261 (BAYSIDE RD) CHESAPEAKE BEACH, MARYLAND

TRAFFIC SIGNAL PLAN table with columns for SCALE, DATE, CONTRACT NO., DESIGNED BY, COUNTY, DRAWN BY, LOGMILE, CHECKED BY, T.I.M.S. NO., F.A.P. NO., TOD NO., TS NO., DRAWING, OF, SHEET NO.