CROMWELL BRIDGE ROAD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNS TO REMAIN

13,19,21,24 — Cromwell Bridge Rd

28 — Loch Raven BLVD

25,31 — Loch Raven BLVD

15 — 14'-6"

20 — LANE ENDS MERGE LEFT

EXISTING SIGNS TO BE REMOVED

14,18,22,23, 26,27,29,30 — LEFT TURN YIELD ON GREEN

EXISTING SIGNS TO BE RELOCATED

16 — WEST INTERSTATE 695

17

EXISTING OVERHEAD INTERCONNECT HEADING TO COWPENS AVE.

EXISTING SIGNALS

1,4,7,10 — 12"/8"

2,5,8,11 — 12"

3,6,9,12 — 12"

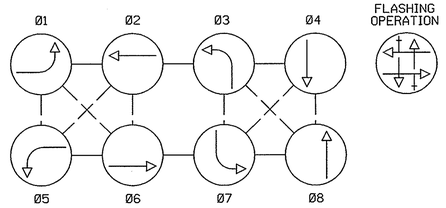
EXISTING VIDEO DETECTION CAMERAS

a,b,c,d

VIDEO ZONE DETECTION

a

NEMA PHASING



FLASHING OPERATION

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

CONSTRUCTION DETAILS

A. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET. (NOTE: TWO-4 IN. PVC AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
B. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. TIE CONDUIT INTO EXISTING 2 IN. PVC BEND IN POLE BASE.
C. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
D. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE).
E. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
F. INSTALL MICROLOOP PROBES WITH 500 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
G. INSTALL MICROLOOP PROBES WITH 1,000 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
H. USE EXISTING HANDHOLE.
J. USE EXISTING CONDUIT.
K. USE EXISTING STEEL POLE.
L. USE EXISTING MAST ARM POLE.
M. ABANDON EXISTING MICRLOOP PROBES. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
N. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. (SHA FORCES SHALL REMOVE CONTROLLER AND ALL AUXILIARY EQUIPMENT WITHIN)
O. USE EXISTING STEEL POLE. (NOTE: EXISTING 2 IN. PVC AND 4 IN. PVC SCHEDULE 80 CONDUIT BENDS IN POLE BASE TO BE TIED INTO PROPOSED CONDUITS.) . PULL BACK EXISTING INTERCONNECT CABLE FROM EXISTING BASE MOUNTED CABINET AND RE-FEED IN PROPOSED 4 IN. CONDUIT TO NEW BASE MOUNTED CABINET. (SEE WIRING DIAGRAM FOR ADDITIONAL INTERCONNECT DETAILS). CONNECT ELECTRICAL SERVICE CABLES TO EXISTING DISCONNECT SWITCH.
P. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. TIE CONDUIT INTO EXISTING 4 IN. PVC BEND IN POLE BASE.
Q. CAP AND ABANDON EXISTING CONDUIT.
R. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
T. RELOCATE EXISTING R4-7 SIGN AND SUPPORT.
U. RELOCATE EXISTING M3-4, M1-1 AND M6-3 SIGNS AND SUPPORTS.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. 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.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK, EXCEPT AS NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. 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.
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.
7. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

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BY: JROBINSON

APPROVALS

ORIGINAL ON FILE

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

(E) INSTALL NEW CABINET DUE TO GEOMETRIC IMPROVEMENTS SHA NO. BA5325177 3/22/2006 SRB NWL
(D) INSTALL VIDEO DETECTION SHA NO. AT3085185 8/25/2005 SWA
(C) INSTALL SIGNALS, POLES, SIGNS, LOOP DETECTORS LIGHTING, RAISED ISLAND AND PROBES SHA. NO. AM103459 1/24/96

PLOTTED: 11-09-2007
FILE: N:\31530-05\CADD\PSG-P801_1695.DGN

TSP-1

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 542 (LOCH RAVEN BLVD)/I-695 RAMPS AND CROMWELL BRIDGE ROAD

SIGNALIZATION PLAN

SCALE 1" = 20' DATE 5222006 CONTRACT NO. AW 555-504-476

DESIGNED BY
DRAWN BY JB JBG
CHECKED BY
F.A.P. NO.

COUNTY BALTIMORE
LOGMILE 03054202.60
T.I.M.S. NO.
TOD NO.

DRAWING NO. TS-1816E- 1 OF 2 SHEET NO. OF