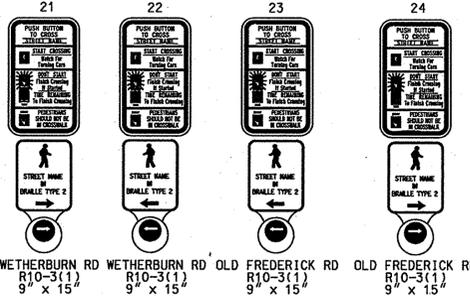


MD 99 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

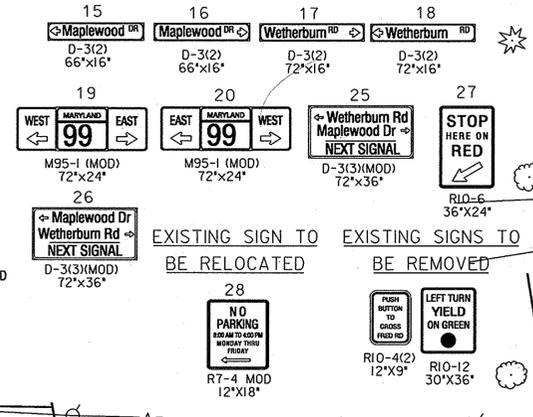
PROPOSED SIGNS
29, 32, 33, 36 30, 31, 34, 35



PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN



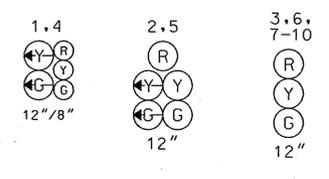
EXISTING SIGNS



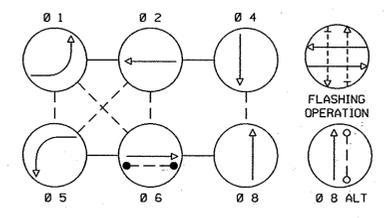
PROPOSED LED COUNTDOWN PEDESTRIAN SIGNAL HEADS



EXISTING SIGNAL HEADS



NEMA PHASING



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

CONSTRUCTION DETAILS

- A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON, AND R10-3(1) SIGN (ORIENT SIGN PARALLEL TO CROSSWALK) NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE. PEDESTAL POLE FOUNDATION AND BREAKAWAY EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH SHA STANDARD MD 801.01-01.
- B. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD ONTO EXISTING SIGNAL POLE.
- C. INSTALL S1-1 AND M6-2 SIGN ONTO ONE 4 IN. X 4 IN. WOOD SIGN SUPPORT
- D. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
- E. REMOVE EXISTING PEDESTRIAN PUSHBUTTON AND SIGN ON EXISTING SIGNAL POLE AND PLUG UNUSED HOLES.
- F. REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT.
- G. REMOVE EXISTING R10-12 SIGN FROM EXISTING MAST ARM.
- H. RELOCATE EXISTING SIGN (*28) ONTO NEW 4 IN. X 4 IN. WOOD SIGN SUPPORT AND REMOVE OLD SUPPORT (TRIM TREE AS NECESSARY)
- J. CAP AND ABANDON EXISTING CONDUIT.
- K. INSTALL ELECTRICAL HANDHOLE (SEE SPECIAL NOTE #3 FOR DETAILS).
- L. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
- M. REMOVE EXISTING PAVEMENT MARKINGS.
- N. INSTALL 24 IN. HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.
- O. INSTALL 5 FT. BREAKAWAY PEDESTAL POLE WITH APS PUSHBUTTON AND R10-3(1) SIGN (ORIENT SIGN PARALLEL TO CROSSWALK). NOTE: INSTALL 1-3 IN. CONDUIT BEND INTO POLE BASE.
- P. INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (SEE CROSSWALK DETAIL).



CROSSWALK DETAIL

SEE GENERAL INFORMATION SHEET FOR GENERAL NOTES

SPECIAL NOTES

1. FOR LOCATION AND MD STANDARD OF SIDEWALK RAMP REFER TO THE ROADWAY PLANS.
2. ALL EXISTING SIGNAL CONDUIT AND HANDHOLES ARE TO BE USED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. WHEN INSTALLING HANDHOLE, INTERCEPT THE EXISTING CONDUIT AS SHOWN SEE SPECIAL NOTE #4 FOR FURTHER INSTRUCTIONS.
4. DISCONNECT AND PULL BACK EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE (FOR WETHERBURN RD PASSAGE DETECTOR) TO THIS HANDHOLE. RE-ROUTE BACK TO CONTROLLER THROUGH PROPOSED HANDHOLE AND CONDUIT.
5. INSTALL LOOP DETECTORS 1 FT. BEHIND STOP BAR.
6. ALL SIGNAL WORK SHALL BE COORDINATED WITH ROADWAY PLANS. SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO FINAL SIDEWALK RAMP IMPROVEMENTS.

CONSTRUCTION DETAILS CONTINUED

- Q. INSTALL 6 FT. X 30 FT. QUADRUPLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING) AND SPLICE EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE IN EXISTING HANDHOLE. ABANDON EXISTING LOOP DETECTOR.
- R. INSTALL 6 FT. X 30 FT. QUADRUPLE TYPE LOOP DETECTOR ENCASED IN 1/4 INCH FLEXIBLE TUBING (3-6-3 WINDING). ABANDON EXISTING LOOP DETECTOR.
- S. INSTALL 1" RIGID GALVANIZED STEEL CONDUIT (FOR DETECTOR SLEEVE)
- T. REMOVE EXISTING HANDHOLE

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

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE: (410) 728-2900 FAX: (410) 383-3270

| APPROVALS | REVISIONS |
|---|--|
| <p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p> | <p>UPGRADE PED. SIGNALS TO APS AND LED COUNTDOWN.</p> <p>CONTRACT # 2007-010007</p> <p>DATE 10/20/07</p> <p>FILE: M:\projects\2007\07056_shahd\Task01_ADA\CADD\Traffic\PLANS\MD99\MAPLEWOODDR\MD99\WETHERBURN\SP.DGN</p> |

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

MD 99 (OLD FREDERICK ROAD) AND WETHERBURN ROAD /MAPLEWOOD DRIVE
ELLICOTT CITY, MARYLAND

TRAFFIC SIGNAL PLAN

CONSTRUCTION CONTRACT NO: HO414A53

SCALE 1" = 20' DATE OCTOBER 2003 CONTRACT NO. AT3585185

DESIGNED BY MRK COUNTY HOWARD
DRAWN BY MRK LOGMILE 13009905.02
CHECKED BY MTS TMS NO. I-767
FAP NO. TOD NO.

TS NO. 4283A DRAWING SG-01 OF 02 SHEET NO. 21 OF 22