

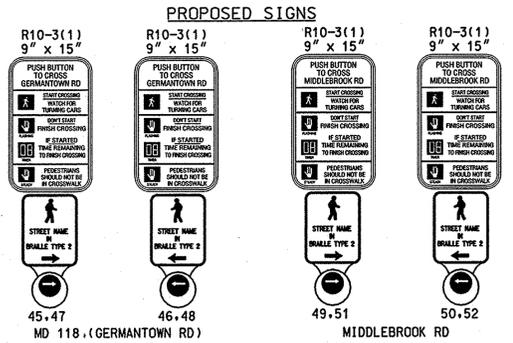
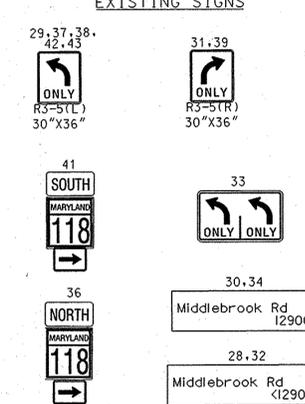
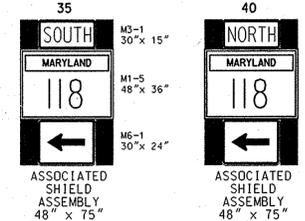
DRILL HOLES

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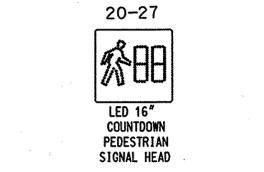
DRILL HOLES

BORDER REV. DATE: June 1, 2004

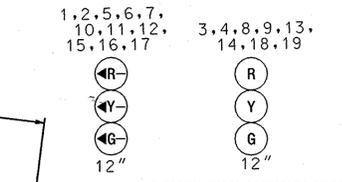
NOTE: MD 118 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.



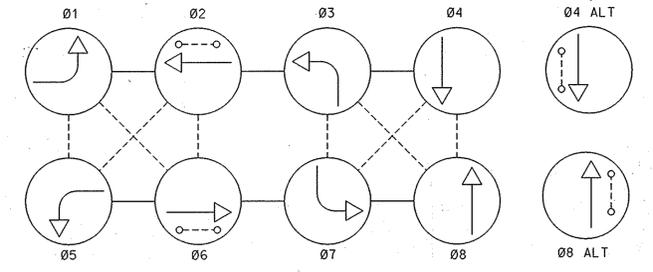
PROPOSED SIGNAL HEADS



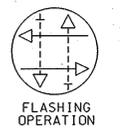
EXISTING SIGNAL HEADS



NEMA PHASING



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



CONSTRUCTION DETAILS

- A. Install 5' pedestal pole, with audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
B. Use existing cabinet and controller. (Note: Montgomery County shall install 2-wire control unit into cabinet.)
C. Install 10' pedestal pole, with audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
D. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
E. Remove existing pedestrian signal heads and install Countdown pedestrian signal heads as shown. Also remove pedestrian education sign, pushbutton and plug existing pushbutton hole.
F. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. Plug pushbutton hole. Install Countdown pedestrian signal heads audible pushbutton and pedestrian education sign as shown. Also, install Guide Shield Assembly sign as shown.
G. Remove existing crosswalk and install 12" white heat applied permanent preformed thermoplastic pavement marking. (crosswalk)
H. Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface. (Std No. MD 655.40).
J. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface. (Std No. MD 655.40). (Note: Ramp shall be 14' wide)
K. Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface. (Std No. MD 655.40). (Note: Ramp shall be 12' wide).
L. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface. (Std No. MD 655.40). (Note: Ramp shall be 16' wide).
M. Install new 4" concrete sidewalk.
N. Use existing conduit / handhole.
O. Cut back median nose 8' and remove existing R4-7 sign.
P. Use existing span wire.
Q. Remove existing stopline and install 24" white heat applied permanent preformed thermoplastic pavement marking. (stopline).
R. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. Plug pushbutton hole. Install Countdown pedestrian signal head as shown.
S. Remove existing "SOUTH MD 118" guide sign from wood post.
T. Remove existing "NORTH MD 118" guide sign from wood post.
U. Remove existing pedestrian signal heads and install Countdown pedestrian signal heads as shown. Also remove pedestrian education sign, pushbutton and plug existing pushbutton hole. Also, install proposed Guide Shield Assembly sign as shown.
V. Install detectable warning surfaces. (Std No. MD 655.40).
W. Install ground mounted sign 2' from median nose as shown. X. Contractor shall install standard Curb, Gutter and make sloped Brick flat.

- GENERAL NOTES: 1. All 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.
2. 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 818.03, MD 818.01, MD 818.02, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.
4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x60" level landing area with a cross slope of less than or equal to 2%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. 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 locations until a design waiver is obtained, approved by the Director, Office of Traffic and Safety.
8. The contractor shall remove all unused wiring.

GEOMETRIC LEGEND table with columns for PROPOSED and EXISTING, and rows for LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES including AERIAL CABLE, ELECTRIC, TELEPHONE, GAS, SEWER, WATER, and CABLE TV.

REVISION "E" box containing the logo for STREET TRAFFIC STUDIES, LTD. and project information: 401 South New Market, Chevy Chase, MD 20815, Tel: (410) 550-5500, Fax: (410) 550-6637, File: 5331B.dgn, T-101.

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION logo and project title: MD 118 AT MIDDLEBROOK ROAD.

APPROVALS and REVISIONS table. APPROVALS includes TEAM LEADER, ASST. DIV. CHIEF, DIVISION CHIEF, and OFFICE DIRECTOR. REVISIONS includes a table with columns for DATE, DESCRIPTION, and initials. REVISIONS table: 10/23/07: SHA NO AT9105185, INSTALL GPS & APS ACROSS ALL LEGS; 5/28/04: GEOM. IMP. TO INCLUDE ADDITIONAL WB LT.; REMOVE CHANNELIZED WB RIGHT TURN LANE; APRIL, 1993: EB RT LANE, POLE RELOCATION LOOPS AND SB LANE.

TRAFFIC SIGNAL PLAN table. SCALE: 1"=20'. DATE: 8/1986. CONTRACT NO. DESIGNED BY: McDOT. COUNTY: MONTGOMERY. DRAWN BY: McDOT. LOGMILE: 15011805.57. CHECKED BY: McDOT. TIMS NO.: I118. F.A.P. NO.: TOD NO. TS NO. 2003E. DRAWING NO. 1 OF 2. SHEET NO. 1 OF.

PLOTTED: 8/24/1986 FILE: 8FLS

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