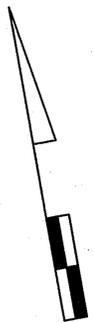


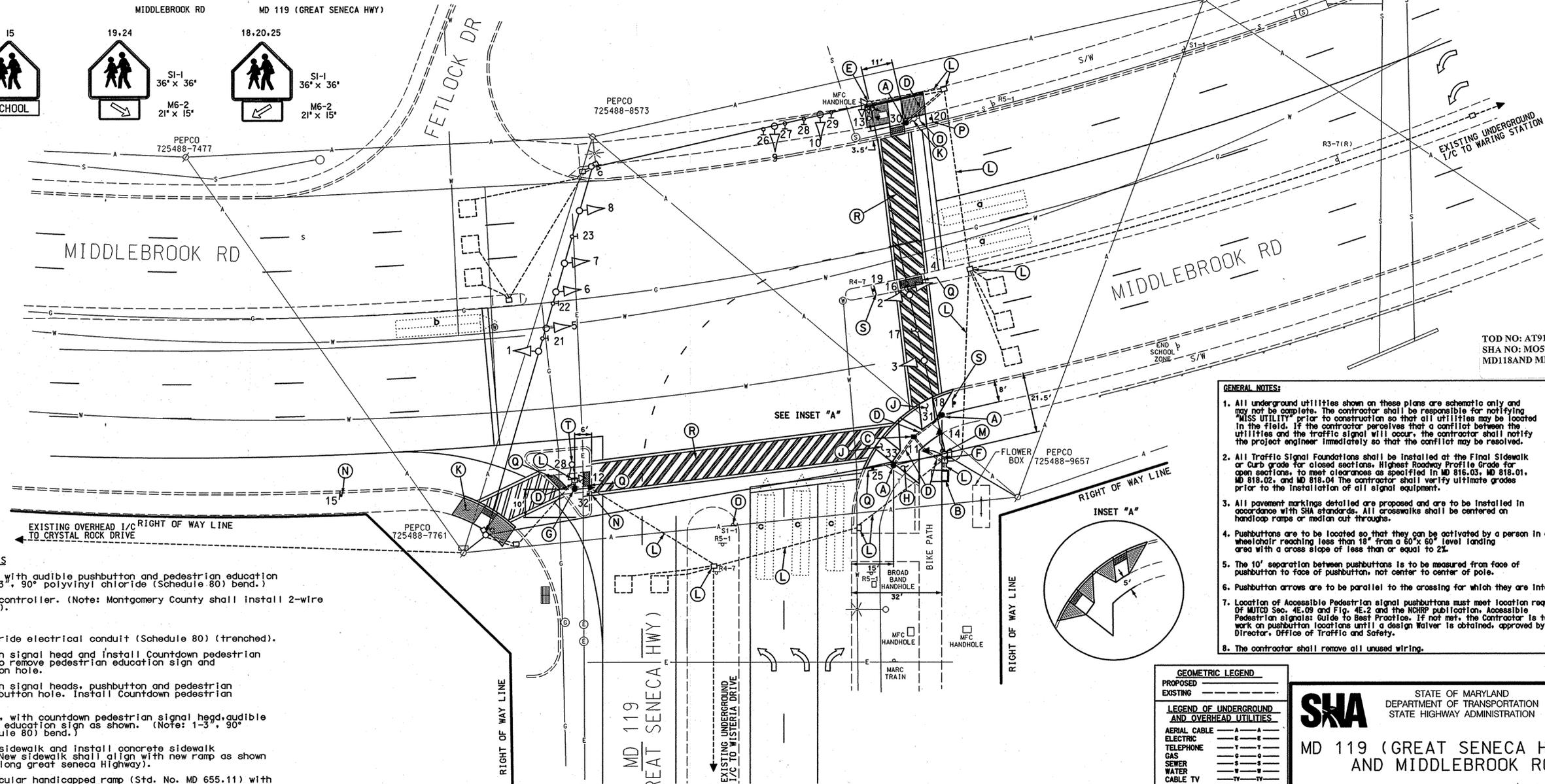
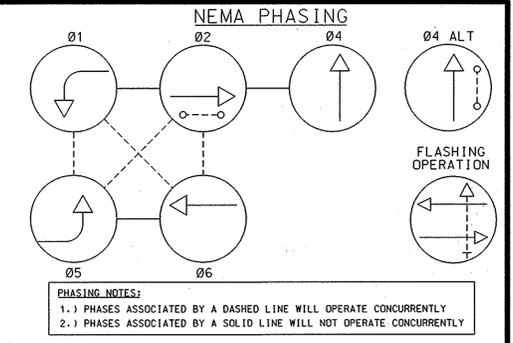
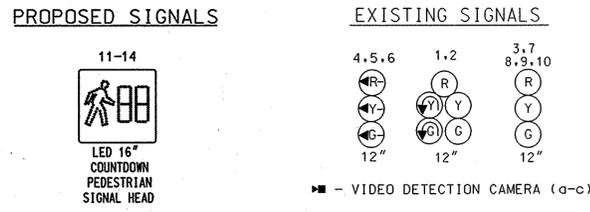
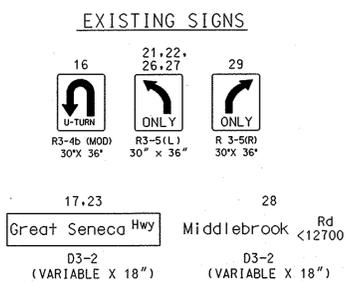
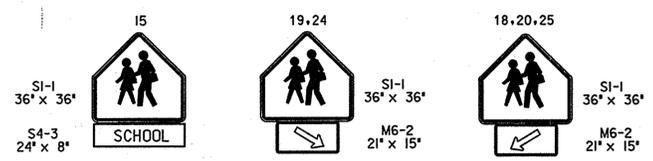
DRILL HOLES
BORDER REV. DATE: June 11, 2004

DRILL HOLES

DRILL HOLES



MIDDLEBROOK RD IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION



TOD NO: AT910-24
SHA NO: MO579A5C/B5C
MD118AND MD119

- GENERAL NOTES:**
- 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.
 - 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, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
 - 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.
 - Pushbuttons are to be located so that 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%.
 - The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
 - Pushbutton arrows are to be parallel to the crossing for which they are intended.
 - 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 Practices. 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.
 - The contractor shall remove all unused wiring.

- CONSTRUCTION DETAILS**
- Install 5' pedestal pole, with audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Use existing cabinet and controller. (Note: Montgomery County shall install 2-wire Control Unit into cabinet).
 - Install handhole.
 - Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Remove existing pedestrian signal head and install Countdown pedestrian signal head as shown. Also remove pedestrian education sign and pushbutton. Plug pushbutton hole.
 - Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. Plug pushbutton hole. Install Countdown pedestrian signal heads as shown.
 - Install 10' pedestal pole, with countdown pedestrian signal head, audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Remove existing concrete sidewalk and install concrete sidewalk section as shown. (Note: New sidewalk shall align with new ramp as shown and extend to bike path along great seneca Highway).
 - Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface. (Std No. MD 655.40).
 - Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface. (Std No. MD 655.40).
 - Use existing conduit / handhole.
 - Use existing strain pole.
 - Install proposed ground mounted sign.
 - Remove existing ground mounted sign.
 - Install relocated ground mounted sign as shown.
 - Install detectable warning surface (Std No. MD 655.40).

- CONSTRUCTION DETAILS (CONT.)**
- Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk).
 - Contractor shall remove existing S1-1 sign and install proposed S1-1 sign as shown.
 - Remove existing pedestal pole and all associated equipment, cap and abandon conduit.

REVISION "c"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy, N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

| APPROVALS | |
|------------------|--|
| TEAM LEADER | |
| ASST. DIV. CHIEF | |
| DIVISION CHIEF | |
| OFFICE DIRECTOR | |

| REVISIONS | |
|---|----------|
| INSTALL CPS AND APS ACROSS EAST AND SOUTH LEGS. SHA NO. AT91024B5 | 10-23-01 |
| REPLACE LOOP DETECTION WITH VIDEO CAMERAS SHA NO. MO117A55/B55 | 10/2004 |
| ADD DUAL LEFT ON WB MIDDLEBROOK | 9-23-04 |
| SHA NO. 18W966M2 | |
| RRZ | |

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

SHA

MD 119 (GREAT SENECA HIGHWAY) AND MIDDLEBROOK ROAD

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 2-10-97 CONTRACT NO. MO117A55/B55

DESIGNED BY R.R. ZACHERL COUNTY Montgomery
DRAWN BY S.R. BARANOWSKI LOGMILE 15011907.47
CHECKED BY _____ TIMS NO. 1118
F.A.P. NO. _____ TOD NO. _____

TS NO. 4367C DRAWING NO. 1 OF 2 SHEET NO. 5 OF

10/23/2004 2:21:27 PM