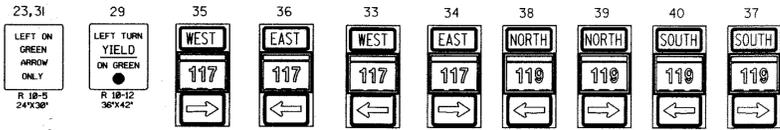


EXISTING SIGNS



25,28  
Great Seneca Hwy  
(TO BE REMOVED)

24,32  
Clopper Rd  
(TO BE REMOVED)



NOTE: Sign #30 is to be removed, Signs 25,29,32,35,36 to be relocated as shown.

PROPOSED SIGNS

25A,28A  
Great Seneca Hwy  
D3-2 VAR. X 18" (DUAL FACED)

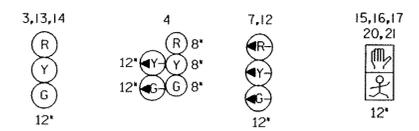


32A,24A  
Clopper Rd  
D3-2 VAR. X 18" (DUAL FACED)

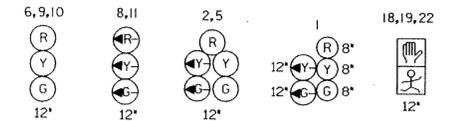


TO MD 118

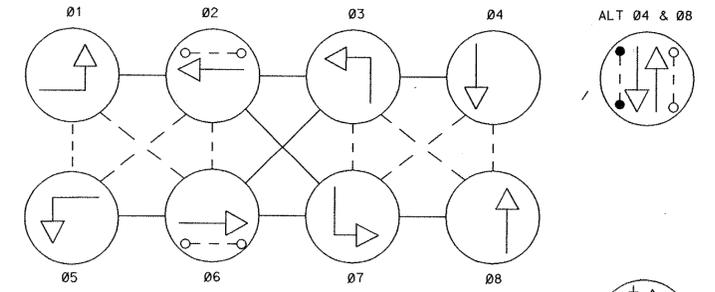
EXISTING SIGNALS



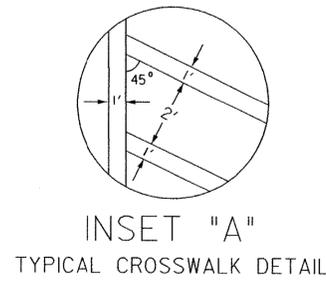
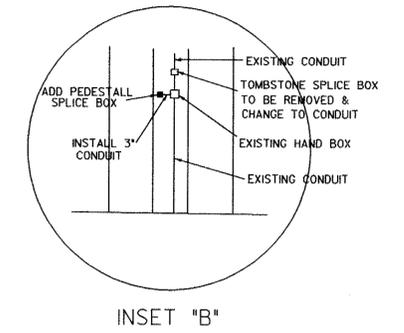
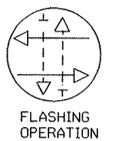
PROPOSED SIGNALS



NEMA PHASING

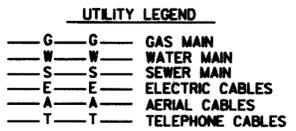
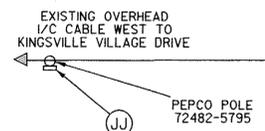


PHASING NOTES:  
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



- GENERAL NOTES:
- All loop detectors are to be installed prior to the installation of pavement markings.
  - All underground and overhead 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.
  - The Contractor shall confirm the location of proposed geometrics prior to the installation of the signal equipment.
  - All traffic signal equipment shall be installed to final grade.
  - Pavement markings detailed are proposed and shall be installed by the Contractor in accordance with SHA Standards.
  - Any modification to this subject signal should be preceded by a thorough identification of all existing utilities.

- CONSTRUCTION DETAILS
- A. Install a 12 in. x 32 ft. steel strain pole, signal heads, control and distribution, ped heads push buttons and RI0-40 sign. (Note: two-3 in PVC schedule 80 conduit bends and four 2-1/4 in. x 96 in. anchor bolts).
  - B. Remove existing steel strain pole and foundation.
  - C. Install NEMA size '6' Base Mounted Cabinet and Controller with all necessary equipment. (Note: Two-4 in. and two-2 in. PVC schedule 80 conduit bends).
  - E. Pull all proposed electrical cables into the existing controller cabinet and properly tag/label each cable. All internal wiring shall be conducted by Contractor or Montgomery County (to be determined by Bobby Gonzales, (240) 777-8761).
  - F. Use existing handhole.
  - G. Install 6' x 22' loop detector enclosed in 1/4" flexible tubing quadrupole type (3-6-3).
  - H. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
  - I. Remove pavement marking message.
  - J. Install permanent pavement marking symbol.
  - K. Install handhole.
  - L. Install 4" schedule 80 PVC electrical conduit (trenched).
  - M. Abandon existing conduit.
  - N. Use existing strain pole.
  - O. Use existing steel span wire for installation of new wiring to signal heads (Note: re-ring existing span).
  - P. Install 2 in. schedule 80 PVC electrical conduit (trenched) for electrical service.
  - Q. Remove handhole. (Cap and abandon attached conduit.)
  - R. Relocate existing associated shield assembly sign to new location as shown.
  - S. Remove the existing stopline and/or crosswalk.
  - T. Install proposed 24" (white) stopline pavement markings as shown.
  - U. Install proposed 12" (white) crosswalk pavement markings as shown (See typical crosswalk detail).
  - V. Existing overhead interconnect cable.
  - X. Abandon existing loop detector.
  - Y. Remove existing steel span wire, signal heads, signs and associated wiring.
  - Z. Remove existing Base Mounted Cabinet and Controller.
  - AA. Install 3/8 in. steel wire, 1/4 in. tether wire, and proposed signal heads and signs as shown.
  - BB. Install 3 in. schedule 80 PVC electrical conduit (trenched).
  - CC. Install span and tether wire to new signal pole. Must be 2 ft. minimum from utility cables, 6 ft. from secondary power lines, and 10 ft. minimum from primary power lines. Coordination with utility companies and relocation effort is needed.
  - DD. Install splice box and attach to pole. Contractor to pull interconnect cable from this location to new controller location. Montgomery County to perform splicing and connecting of cable. Contact Mr. Bobby Gonzales at (240) 777-8761 seventy two (72) hours in advance of work.
  - EE. Proposed overhead feed from relocated electrical service.
  - FF. Add ped head, push button and RI0-40 sign.
  - GG. Install 20 ft. arm for video camera detection system. Installation of detection unit to be performed by Montgomery County Forces. Contact Mr. Bobby Gonzales at (240) 777-8761.
  - HH. Use existing 3 in. conduit.
  - II. Install 3 in. schedule 80 PVC electrical conduit (bored).
  - JJ. Contractor to pull interconnect cable from new controller location to existing splice box approx. 350' west of I17/I19 intersection. Montgomery County to perform splicing and connecting of cable. Contact Mr. Bobby Gonzales at (240) 777-8761 seventy two (72) hours in advance of work.
  - KK. Contractor to pull interconnect cable from new controller location to pedestal splice cabinet approx. 0.4 mile south of I17/I19 intersection. Montgomery County to perform splicing and connecting of cable. Contact Mr. Bobby Gonzales at (240) 777-8761 seventy two (72) hours in advance of work.
  - LL. Contractor to pull interconnect cable from new controller location to pedestal splice cabinet approx. 0.3 mile north of I17/I19 intersection. Montgomery County to perform splicing and connecting of cable. Contact Mr. Bobby Gonzales at (240) 777-8761 seventy two (72) hours in advance of work.



**WELLS & ASSOCIATES, LLC**  
TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS  
1420 Spring Hill Rd., Suite 600  
McLean, VA 22102  
Phone: (703) 917-6620 Fax: (703) 917-0739

REVISIONS	APPROVALS
<p>1. 4-15-01 CONTRACT REVISIONS RELOCATE POLE &amp; CONTROLLER IN THE NORTHWEST CORNER DUE TO GEOMETRIC IMPROVEMENTS ON GREAT SENECA &amp; I17. C.A. [Signature]</p> <p>2. 3-3-99 REPLACE LOOPS DUE TO GEO. IMPRVMTS. ON GREAT SENECA AND MD 117. SHA NO. BWS66MB2</p> <p>R.R.Z.</p> <p>A 11-96 REDRAWN. REMOVE E/P AND INSTALL EXCLUSIVE LEFT-TURNS ON GREAT SENECA HWY. SHA NO. AW-102-501-385</p> <p>SR/RR</p>	<p>TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>CHIEF TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>DIRECTOR, TRAFFIC &amp; SAFETY</p>

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**

MD 117 (CLOPPER RD) AND MD 119 (GREAT SENECA HIGHWAY)

DRAWN BY: CA	F.A.P. NO.	TS NO.
CHECKED BY: LES	S.H.A. NO.	3638C
SCALE: 1"=20'	COUNTY: MONTGOMERY	T.I.M.S. NO.
DATE: 4-5-01	LOG MILE: 15011708.06	E-002

SHEET NO. 1 OF 2