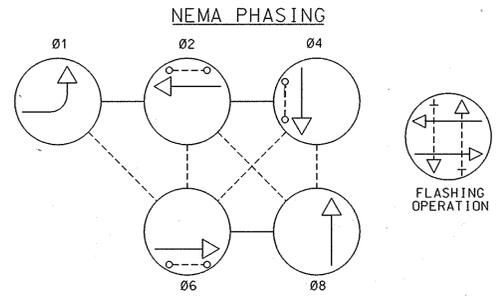
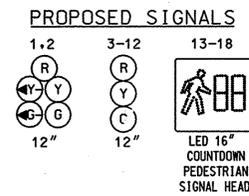
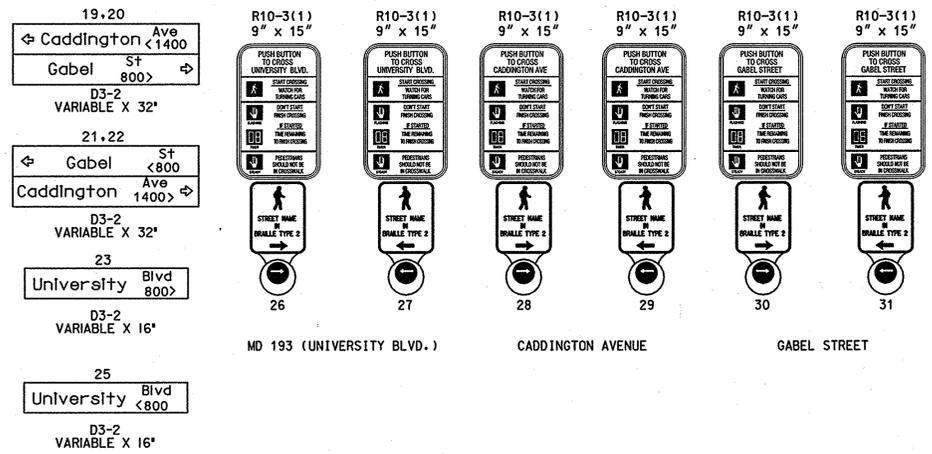
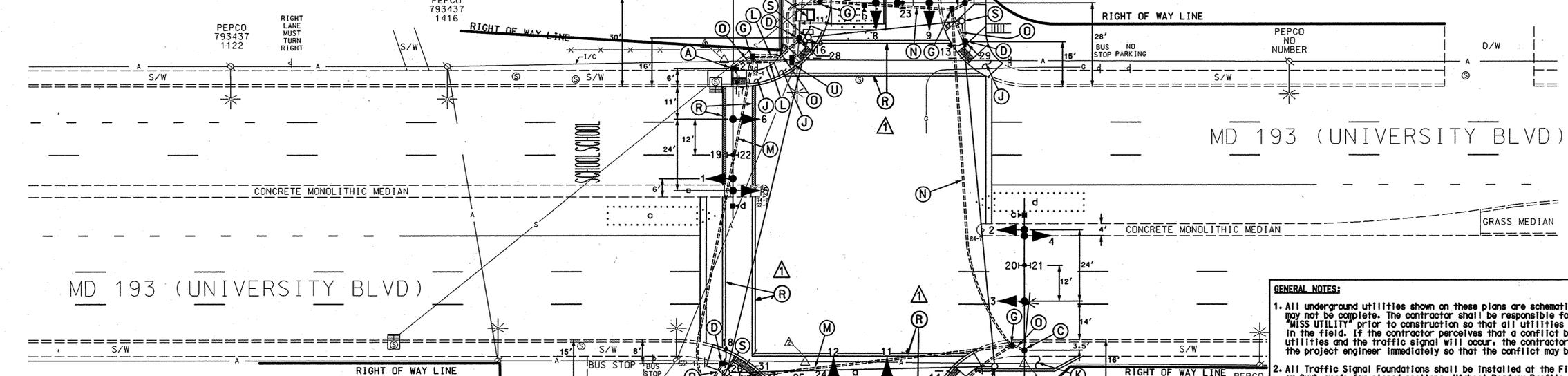


MD 193 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION



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**
- Install 16' steel pole with a special 15' "T" dimension single 50' mast arm, traffic signal heads signs, countdown pedestrian signal head and APS pushbutton with pedestrian education sign and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 16' steel pole with a special 15' "T" dimension single 38' mast arm, traffic signal heads, signs, and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 16' steel pole with a special 15' "T" dimension single 50' mast arm, traffic signal heads, signs, 15' lighting arm with 250 watt HPS luminaire and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
 - Install NEMA size "6" base-mounted cabinet and controller with video interface, 2-wire control unit and all necessary equipment as shown.
 - Install metered pedestal.
 - Install handhole.
 - Install proposed parallel handicap ramp (STD. No. MD 655.12) with a 10' flat area and detectable warning surface (STD. No. MD 655.40) as shown.
 - Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40) as shown.
 - Install proposed sidewalk as shown. (Note: Contractor shall build a retaining wall 3'(high)x 25'(long) behind existing proposed sidewalk and grade this area as needed.)
 - Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
 - Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
 - Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) with 50' of 3-wire-1 conductor (No. 250 KCMIL) for proposed underground electrical power service by PEPCO to base of utility pole.
 - Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk) (Note: Contractor shall remove any existing crosswalks before installing proposed crosswalks.)
 - Remove existing steel pole, foundation 12' below grade and all attached equipment.
 - Remove existing base mounted cabinet and foundation 12' below grade. (Note: Montgomery County shall remove controller and auxiliary equipment).
 - Install 3/4" PVC riser and splice cabinet for interconnect cables onto existing utility pole. (Note: Montgomery County shall supply cabinet and shall make all final connections in splice cabinet. Contact Keith Lord (301) 674-8965.)

ADDENDUM 1: DATE: 10-16-07

OVERHEAD HEIGHTS

TELEPHONE	18'-0"
TELEPHONE	19'-0"
TELEPHONE	21'-0"
TELEPHONE	23'-0"
TELEPHONE	29'-0"
SECONDARY	30'-0"
SECONDARY	31'-0"
PRIMARY	40'-0"

OVERHEAD HEIGHTS

TELEPHONE	18'-0"
TELEPHONE	18'-6"
TELEPHONE	19'-0"
TELEPHONE	19'-6"
CATV	22'-0"
SECONDARY	24'-0"
SECONDARY	29'-0"
SECONDARY	30'-0"
SECONDARY	31'-0"
PRIMARY	44'-0"

OVERHEAD HEIGHTS

TELEPHONE	15'-5"
TELEPHONE	16'-6"
TELEPHONE	18'-0"
TELEPHONE	18'-6"
TELEPHONE	19'-0"
TELEPHONE	20'-0"
SECONDARY	20'-0"
SECONDARY	29'-0"
SECONDARY	31'-0"
SECONDARY	32'-0"
PRIMARY	44'-0"

- 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 816.01, 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.
 - Poles are to be located so that they can be activated by a person in a wheelchair from a 60"x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.
 - If the location of Accessible Pedestrian Signal Pushbuttons must be changed the contractor shall notify the Project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necessary a design waiver is obtained.
 - Pushbutton is to be located so that a pedestrian in a wheelchair located on the level landing area, does not have to reach more than 18".
 - The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton.
 - The contractor shall remove all unused wiring.

GEOMETRIC LEGEND

PROPOSED	---
EXISTING	---

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	---
ELECTRIC	---
TELEPHONE	---
GAS	---
SEWER	---
WATER	---
CABLE TV	---

REVISION "B"

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

5197b.dgn T-63

APPROVALS		REVISIONS	
TEAM LEADER		RECONSTRUCT EXISTING TRAFFIC SIGNAL WITH APS & CPS	6-18-07
ASST. DIV. CHIEF		SHA NO. 142825185	
DIVISION CHIEF		INSTALL APS AND CPS ON NORTH, SOUTH AND WEST LEGS	12-7-06
OFFICE DIRECTOR		SHA NO. 142825185	

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 193 (UNIVERSITY BLVD) AND GABEL STREET / CADDINGTON AVENUE
SILVER SPRING, MD.

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE _____ CONTRACT NO. _____

DESIGNED BY SHA COUNTY MONTGOMERY
DRAWN BY SHA LOGMILE 15019303.19
CHECKED BY SHA TMS NO. I105
F.A.P. NO. AC-STPG-000A(24)E TOD NO. _____

TS No. 488 B DRAWING NO. 1 OF 4 SHEET NO. 34 OF 42