

BORDER REV. DATE: June 1, 2004

DRILL HOLES

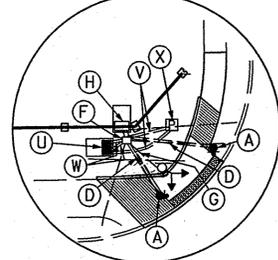
DRILL HOLES

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MD 450 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION



INSET "A" SCALE 1"=20'



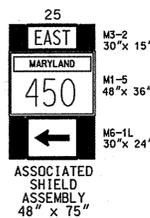
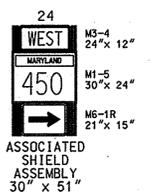
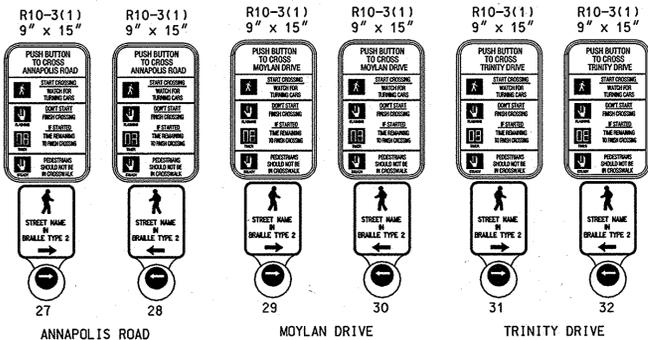
CONSTRUCTION DETAILS

- A. Install 10' breakaway pedestal pole (cut to 5') with APS pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- B. Remove existing pedestrian signal heads and install Countdown pedestrian signal heads as shown. Remove existing pushbutton and pedestrian sign. Plug pushbutton hole.
- C. Remove existing pedestrian signal head and install Countdown pedestrian signal head as shown.
- D. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- E. Remove existing signal head lens and replace with LED module lens. Existing traffic signal head to remain at same location. (Note: Use existing wiring)
- F. Use existing handhole.
- G. Use existing conduit.
- H. Remove existing cabinet, controller and foundation.
- J. Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk).
- K. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline).
- L. Remove existing crosswalk pavement markings.
- M. Remove existing stopline.
- N. Remove existing brick sidewalk and install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface (Std. No. MD 655.40) as shown.
- O. Remove existing sidewalk and install proposed concrete sidewalk as shown.
- P. Remove existing brick sidewalk and install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface (Std. No. MD 655.40) as shown.
- Q. Remove existing brick sidewalk and install proposed concrete sidewalk.
- R. Remove existing pedestrian signal head, existing route sign and install standard Guide Shield Assembly sign.
- S. Remove existing pedestrian signal heads and install Countdown pedestrian signal heads as shown. Remove existing pushbutton and pedestrian sign. Plug pushbutton hole. Install Guide Shield Assembly sign.
- T. Remove existing overhead sign.
- U. Install NEMA size "6" base mounted cabinet and controller. (Note: SHA Forces shall install new 2-wire Control Unit and relocate all existing controller equipment from existing cabinet into new cabinet.) The Contractor shall notify Mr. Robert Snyder of SHA at (410)787-7631 to arrange for the phone drop line relocation.

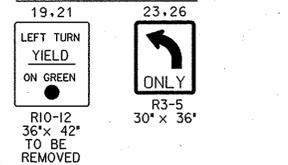
CONSTRUCTION DETAILS (cont.)

- V. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- W. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- X. Locate existing power service conduit and install Meter Pedestal onto conduit. Contractor shall contact BGE at 410-850-4620 to perform a Work With.
- Y. Remove existing ground mounted sign.
- Z. Install 10' breakaway pedestal pole with APS pushbutton, Countdown pedestrian signal head and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- aa. Remove existing brick sidewalk and install proposed parallel sidewalk combination handicapped ramp (Std. No. MD 655.13) with detectable warning surface (Std. No. MD 655.40) as shown.
- bb. Install ground mounted sign on 4"x4" wood post.
- cc. Relocate existing video detection camera as shown. (Note: Rewire camera with new Control Cable).

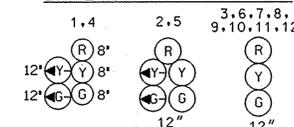
PROPOSED SIGNS



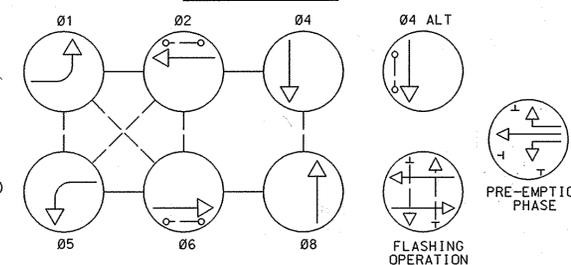
EXISTING SIGNS



PROPOSED LED MODULES IN EXISTING SIGNALS

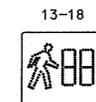


NEMA PHASING



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

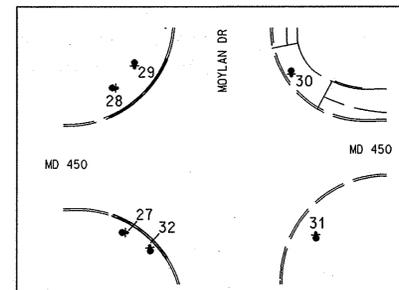
PROPOSED SIGNALS



VIDEO DETECTION CAMERA (a,b)

- 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 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.
 - The contractor shall remove all unused wiring.
 - Video Camera Location / Aligning shall be coordinated with the SHA Engineer.

PUSHBUTTON NUMBERING



GEOMETRIC LEGEND

PROPOSED	---
EXISTING	---
LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	—A—A—
ELECTRIC	—E—E—
TELEPHONE	—T—T—
GAS	—G—G—
SEWER	—S—S—
WATER	—W—W—
CABLE TV	—TV—TV—

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

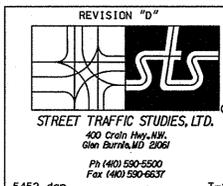
MD 450 (ANNAPOLIS RD)
AT TRINITY DR / MOYLAN DRIVE

BOWIE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE OCT 2001 CONTRACT NO. P69005571

DESIGNED BY _____ COUNTY PRINCE GEORGE'S
DRAWN BY MB LOGMILE 16045011.83
CHECKED BY STB TMS NO. 1725
F.A.P. NO. N/A TOD NO. N/A



APPROVALS

REVISIONS

REVISION "D"

3/2008
INSTALL APS, OPS, RELOCATE CABINET
DUE TO NOISE WALL AND LED MODULES
BY STB
C 8/22/2001
SIGNAL MODIFICATION DUE TO
RECONSTRUCTION OF MD 450
MAR
B 1/89
ADD OPTICOM FIRE EMPTION PHASING

TS NO. 672D	DRAWING NO. SG1 OF 2	SHEET NO. OF
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