

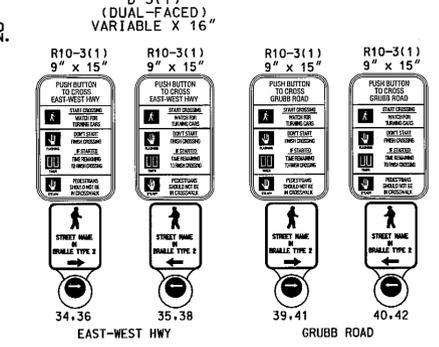
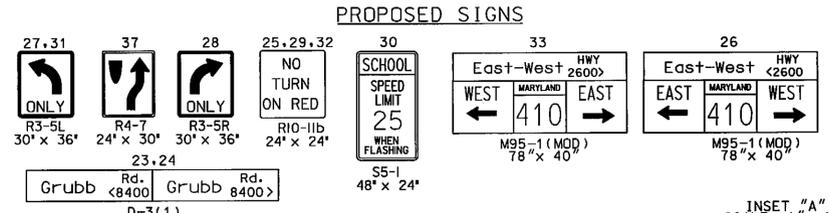
DRILL HOLES

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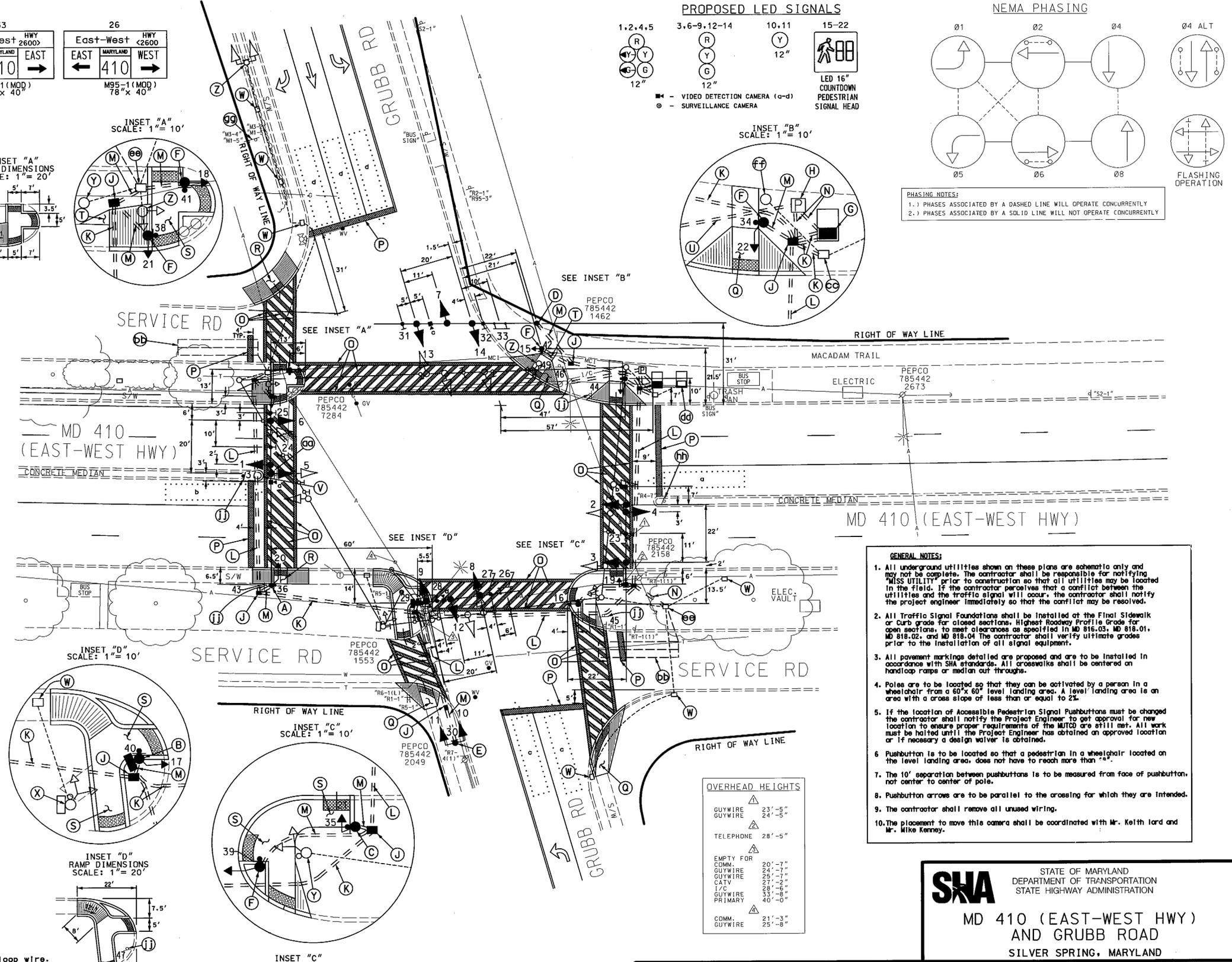
DRILL HOLES

BORDER NEXT DATE: June 1, 2004

NOTES: MD 410 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.



- Install 16.5' upright 15' special "T" steel pole with single 70" mast arm (cut to 68"), traffic signal heads, signs, countdown pedestrian signal head, APS pushbutton with pedestrian education sign (R10-3(1)), and video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- Install 16.5' upright 15' special "T" steel pole with single 38" mast arm, traffic signal heads, signs, relocated pole mounted surveillance camera cabinet (by MCDPWA) with countdown pedestrian signal head, APS pushbutton with pedestrian education sign (R10-3(1)), lighting arm and video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- Install 16.5' upright 15' special "T" steel pole with single 38" mast arm, traffic signal heads, signs, countdown pedestrian signal head, APS pushbutton with pedestrian education sign (R10-3(1)), and video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- Install 16.5' upright 15' special "T" steel pole with single 60" mast arm, traffic signal heads, signs, countdown pedestrian signal head, and video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- Install 14' breakaway pedestal pole with signal heads and School speed limit sign (S5-1) as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.) (Note: Contractor shall remove existing and install proposed in same place.)
- Install 10' (18" breakaway coupling foundation STD No. 801.01-01) pedestal pole with countdown pedestrian signal heads and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- Install NEMA base mounted cabinet with 2-2" and 2-4" elbows.
- Install metered pedestal for underground electrical utility service.
- Install handhole.
- Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
- Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk) (Note: Contractor shall remove all existing crosswalks.)
- Install 24" white heat applied preformed thermoplastic pavement marking. (Stapline) (Note: Contractor shall remove all existing stapline.)
- Install proposed perpendicular handicap ramp (STD. No. MD 655.11) with detectable warning surface (STD. No. MD 655.40).
- Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40).
- Install proposed handicap ramp with detectable warning surface (STD. No. MD 655.40). (See Inset's)
- Install proposed sidewalk as shown.
- 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.
- Contractor shall remove 14' of existing median nose and patch roadway with concrete and install proposed R4-7 sign as shown.
- Remove existing handhole and abandon existing conduit.
- Remove existing strain pole and all associated signal equipment as shown. Also the contractor shall contact Mike Kinney at 1-(240)777-8760 to relocate existing pole mounted surveillance camera and cabinet. (Note: Contractor shall backfill 12" below grade.)
- Remove existing strain pole and all associated signal equipment as shown. (Note: Contractor shall backfill 12" below grade.)
- Remove existing pedestal pole with all attached equipment and backfill 12" below grade.
- Contractor shall remove existing R4-7, S1-1 and W16-7p signs in median.
- Contractor shall resplice proposed 2 conductor (aluminum shielded) to existing loop wire.
- Contractor shall disconnect all existing runs of interconnect from existing cabinet, pullback to this handhole and reroute through proposed conduit into base mounted cabinet as shown.
- Remove existing cabinet with controller and backfill 12" below grade.
- Use existing handhole.
- Use existing strain pole. (Note: PEPCO shall remove existing meter, disconnect switch and overhead service.)
- Remove existing ground mounted sign.
- Contractor shall remove existing S1-1 and W16-7p signs from existing R4-7 sign in median.
- Remove existing ground mounted sign and install proposed sign on existing post as shown.



- 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 816.02, and MD 816.04. 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 15".
 - The 10' separation between pushbuttons is to be measured from face of pushbutton, not center to center of pole.
 - Pushbutton arrows are to be parallel to the crossing for which they are intended.
 - The contractor shall remove all unused wiring.
 - The placement to move this camera shall be coordinated with Mr. Keith Iord and Mr. Mike Kenney.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 410 (EAST-WEST HWY) AND GRUBB ROAD
SILVER SPRING, MARYLAND

TRAFFIC SIGNAL PLAN

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

DESIGNED BY MONTGOMERY CO. COUNTY MONTGOMERY
DRAWN BY MONTGOMERY CO. LOGMILE 15041002.54
CHECKED BY MONTGOMERY CO. TMS NO. J024
F.A.P. NO. TOD NO. _____

TS NO. 10731A DRAWING NO. 1 OF 2 SHEET NO. OF _____

SHA NO: X33545168R 8-5-09
RECONSTRUCT TRAFFIC SIGNAL WITH APS AND GPS
JWA

PLOTTED: 4/24/2004
FILE: SFILES

APPROVALS

TEAM LEADER _____

ASST. DIV. _____

DIVISION CHIEF _____

OFFICE DIRECTOR _____

REVISIONS

ORIGINAL ON FILE