DRILL HOLES

BORDER REV. DATE: June 1, 2004

CONSTRUCTION DETAILS

A. Install 27' steel pole with a special 15' "T" dimension with a 60' mast arm, traffic signal heads, sign, video detection camera, countdown pedestrian signal heads, APS pushbutton with pedestrian education sign as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.) Montgomery County surveillance camera on 20' lighting arm and pole mounted cabinet are to be installed by Montgomery County forces. The contractor is to contact Mr. Mike Kinney at (240-777-8760). Due to the overhead utilities above the median, the contractor is to aim the arm directly at PEPCO pole 800446-6312.

B. Install 16.5' steel pole with a special 15' "T" dimension with a 38' mast arm (cut to 28'), traffic signal heads, sign, video detection camera, splice cabinet (for interconnect cable) and 3" weatherhead. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend. Splice cabinet supplied by SHA)

C. Install 16.5' steel pole with a special 15' "T" dimension with a 60' mast arm, traffic signal heads, signs, video detection camera, countdown pedestrian signal head, APS pushbutton with pedestrian education sign and 3" weatherhead as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

D. 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.)

E. Install NEMA size "6" base-mounted cabinet and controller with video interface, 2-wire Central Control unit and all necessary equipment as shown.

F. Install metered pedestal.

G Install handhole.

H. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

J. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

K. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched)

M. 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.

N. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk with crosshatching) (Note: Contractor shall remove any existing marking.)

O. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline). (Note: Contractor shall remove any existing marking.)

P. Remove existing wood post. (Note: Existing pedestrian signs shall be relocted to proposed pedestal pole. See Construction Detail "cc").

R. Remove existing sidewalk section, curb and gutter and /or handicapped ramp and install proposed parallel handicap ramp with 5' flat area (STD. No. MD 655.12) and detectable warning surfaces (STD. No. MD 655.40) as shown

S. Remove existing strain pole, foundation 12" below grade and all attached equipment.

T. Remove existing strain pole, foundation 12" below grade and all attached equipment. See Detail "A" for relocation of County surveillance equipment.

U. Remove existing handhole. Cap existing conduit.

V. Remove existing base mounted cabinet and foundation. (Note: Montgomery County shall remove controller and auxiliary equipment).

W. Remove existing "School Crossing" signs and replace existing R4-7 signs with R4-7(2) sign. Relocate ground mounted sign 4' from proposed median nose as shown.

X. Cut back existing median 16' back and install new concrete nose as shown. Patch pavement.

Y. Disconnect existing 12-pair interconnect cable in cabinet and pull back to PEPCO pole # 800446-6028, relocate overhead to proposed pole "C" and run underground to the proposed splice cabinet on proposed pole "B". (See Wiring Diagram).

Z. Disconnect existing 12-pair interconnect cable in cabinet and pull back to PEPCO pole # 800446-6312, relocate overhead to proposed pole "B" and into the proposed splice cabinet. (See Wiring Diagram).

aa. Remove existing overhead electrical service.

bb. Existing overhead interconnect cable to remain.

cc. Install 10' breakaway pedestal pole with relocated pedestrian sign, countdown pedestrian signal head and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

dd. Install (3) 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).

ee. Install 6' x 6' loop detector encased in 1/4" flexible tubing (4-turns) as shown.

ff. Install 5' breakaway pedestal pole with APS pushbutton and pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

gg. Remove existing sidewalk, curb and gutter and handicapped ramp.

hh. Install ground mounted sign on 4"x6" wood post as shown.

jj. Remove existing "School Crossing" signs and replace existing R4-7 signs with R4-7(2) sign.

kk. Replace existing M6-2 sign with W16-7p sign as shown.

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. 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.
8. The contractor shall remove all unused wiring.

Contact Mr. Mike Kinney at (240) 777-8760 seventy-two hours in advance of intended work for wiring of traffic surveillance camera.

OVERHEAD HEIGHTS

1		3	
CATV	18'-4"	TELEPHONE	21'-0"
FIBER OPTICS	20'-2"	TELEPHONE	21'-10"
INTERCONNECT	22'-8"	TELEPHONE	22'-6"
SECONDARY	26'-2"	TELEPHONE	25'-8"
SECONDARY	28'-0"	NEUTRAL	32'-6"
NEUTRAL	29'-0"	PRIMARY	36'(CROSSING MD. 650)
PRIMARY	35'-0"	PRIMARY	44'-0"
PRIMARY	45'-0"	PRIMARY	52'-0"

2		4	
CATV	18'-11"	TELEPHONE	14'-5"
MONT. CO. FIBER OPTIC/ IC	20'-1"	TELEPHONE	14'-10"
SECONDARY	28'-0"	TELEPHONE	15'-3"
SECONDARY	29'-0"	NEUTRAL	23'-1"
NEUTRAL	30'-0"	NEUTRAL	26'-5"
NEUTRAL	30'-0"	PRIMARY	35'-0"
NEUTRAL	30'-0"	PRIMARY	43'-0"

5	
GUY WIRE	21'-0"
CATV	21'-11"

TOD No. XX444-05

SHA No. MO526A53/B53

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GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRIC	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS

© 6/27/08
REBUILD SIGNAL, VIDEO, APS, CPS
CONTRACT # XX4445185
RRZ MF

B 4/26/94
INSTALL SB MD 650 E/P LEFT TURN
TNW

A 4/94
ASBUILT (SIGNAL CONSTRUCTED PRIOR TO 1978
TNW

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 650 AND VALLEY BROOK DR/ CHURCH ENTRANCE

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE CONTRACT NO.

DESIGNED BY
DRAWN BY 1"= 20'
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15065003.92
TIMS NO. I411
TOD NO.

TS NO. 3431C DRAWING NO. 1 OF 2 SHEET NO. 3 OF 4

PLOTTED: TUESDAY, JULY 01, 2008 AT 05:36 PM
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