DRILL HOLES

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BORDER REV: DATE: June 1, 2004

PROPOSED SIGNS

MD 197 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION

12 — Annapolis RD — D3-2 VARIABLE X 16"

14 — Annapolis RD — D3-2 VARIABLE X 16"

17 — Laurel Bowie RD — D3-2 VARIABLE X 16"

11,16,18 — ONLY — R3-5L 30" x 36"

13 — R3-4 24" x 24"

EXISTING SIGN — SOUTH MARYLAND 197 — 22

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LAUREL BOWIE RD; START CROSSING WHEN FLASHING TURNING CARS; DON'T START FINISH CROSSING IF STARTED; TIME REMAINING TO FINISH CROSSING; PEDESTRIANS SHOULD NOT BE IN CROSSWALK; STREET NAME BRAILLE TYPE 2 — 20

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LAUREL BOWIE RD; START CROSSING WHEN FLASHING TURNING CARS; DON'T START FINISH CROSSING IF STARTED; TIME REMAINING TO FINISH CROSSING; PEDESTRIANS SHOULD NOT BE IN CROSSWALK; STREET NAME BRAILLE TYPE 2 — 21

LAUREL BOWIE RD

15 — NORTH MARYLAND 197 — M3-1 30" x 15"; M1-5 48" x 36"; M6-1 30" x 24"

ASSOCIATED SHIELD ASSEMBLY 48" x 75"

PROPOSED SIGNALS

1,2 — R Y G — 12"

3-8 — R Y G — 12"

9,10 — 16" PEDESTRIAN COUNTDOWN SIGNAL HEAD "LED" TYPE

■◄ – VIDEO DETECTION CAMERA (a,b)

NEMA PHASING

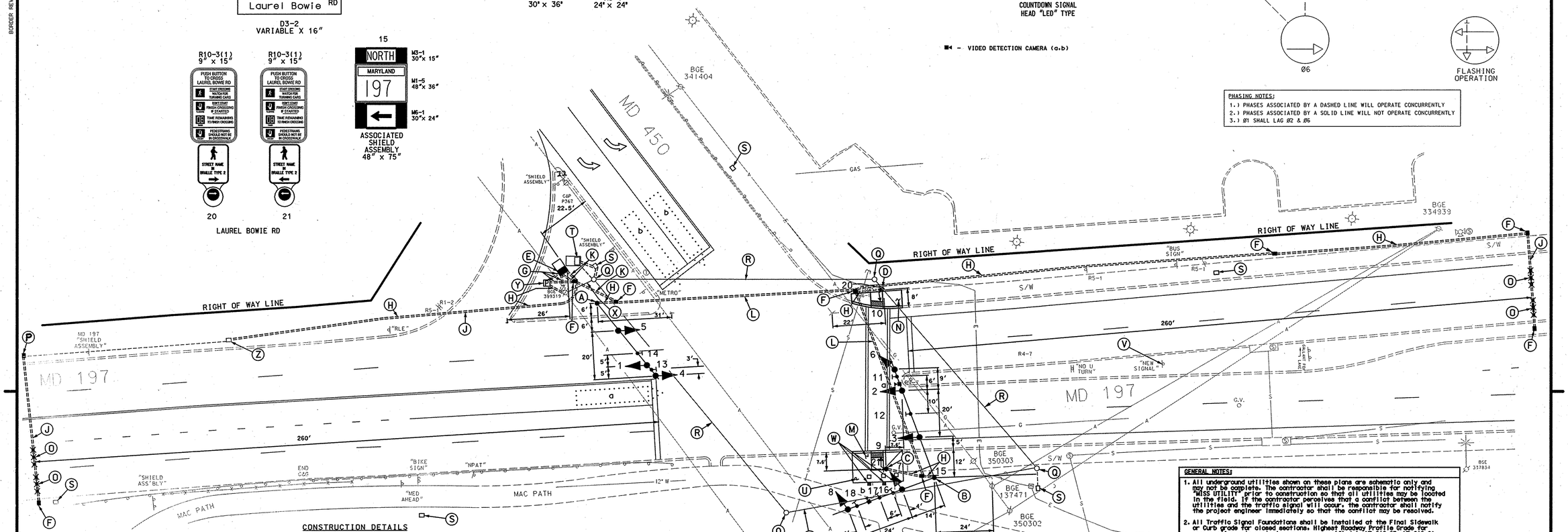
Ø1 Ø2 Ø4 Ø6

Ø4 ALT

FLASHING OPERATION

PHASING NOTES:

1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
3.) Ø1 SHALL LAG Ø2 & Ø6



CONSTRUCTION DETAILS

A. Install 21' steel pole with a 50' mast arm, traffic signal heads and sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 27' steel pole with twin 60'(cut to 52')-50' (cut to 44') mast arms, traffic signal heads, signs and video detection camera as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 10' breakaway pedestal pole, pedestrian signal head, audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Install 10' breakaway pedestal pole, pedestrian signal head, audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend. Also, Contractor shall hand dig test pit.)

E. Install NEMA size "6" base-mounted cabinet and controller with video interface and all necessary equipment as shown.

F. Install handhole.

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

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

J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

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

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

M. Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) with detectable warning surface (Std No. MD 655.40).

N. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface (Std No. MD 655.40).

O. Install non-invasive microloop probe.

P. Locate existing electrical conduit and install handhole.

Q. Remove existing strain pole and foundation 12 in. below grade and all attached signal equipment.

R. Remove existing span wire, tether wire, and any attached signal and sign equipment.

S. Remove existing handhole. Cap and abandon any existing conduit.

T. Remove existing base mounted cabinet, controller and foundation 12 in. below grade. (Note: Controller shall be delivered to SHA).

U. Remove asphalt sidewalk and wood post and install 4" sidewalk.

V. Remove existing wood post and sign.

W. Install 4" x 6" wood post behind new sidewalk as shown.

X. Existing electrical service to be removed by BGE.

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. The contractor shall remove all unused wiring.
4. 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%.
5. 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.
6. 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".
7. The separation between pushbuttons is to be measured from face of pushbutton, not center to center of pole.
8. Video detection cameras shall be aligned per project engineers approval.

TOD NO: AT914-04
SHA No: PG591A52/B52
MD 197: MD 450 to Old MD 450

CONSTRUCTION DETAILS (CONT.)

Y. Install metered pedestal service.

Z. Use existing handhole.

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—

REVISION "C"

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Glen Burnie, MD 21061
Ph (410) 590-5500
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APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV.	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS			
C	SIGNAL RECONSTRUCTION SHA NO.: AT9145185	JWA	4-19-07
B	MODIFY SIGNAL DUE TO THE CLOSING OF THE EAST LEG OF MD 450	SDY	1-11-05
RRZ			

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 450 (OLD) AND MD 197

BOWIE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 1-19-05 CONTRACT NO.

DESIGNED BY
DRAWN BY
CHECKED BY
F.A.P. NO.

COUNTY PRINCE GEORGE'S
LOGMILE 16019703.08
TIMS NO. H812
TOD NO.

TS NO. 1792C | DRAWING NO. 1 OF 3 | SHEET NO. OF

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