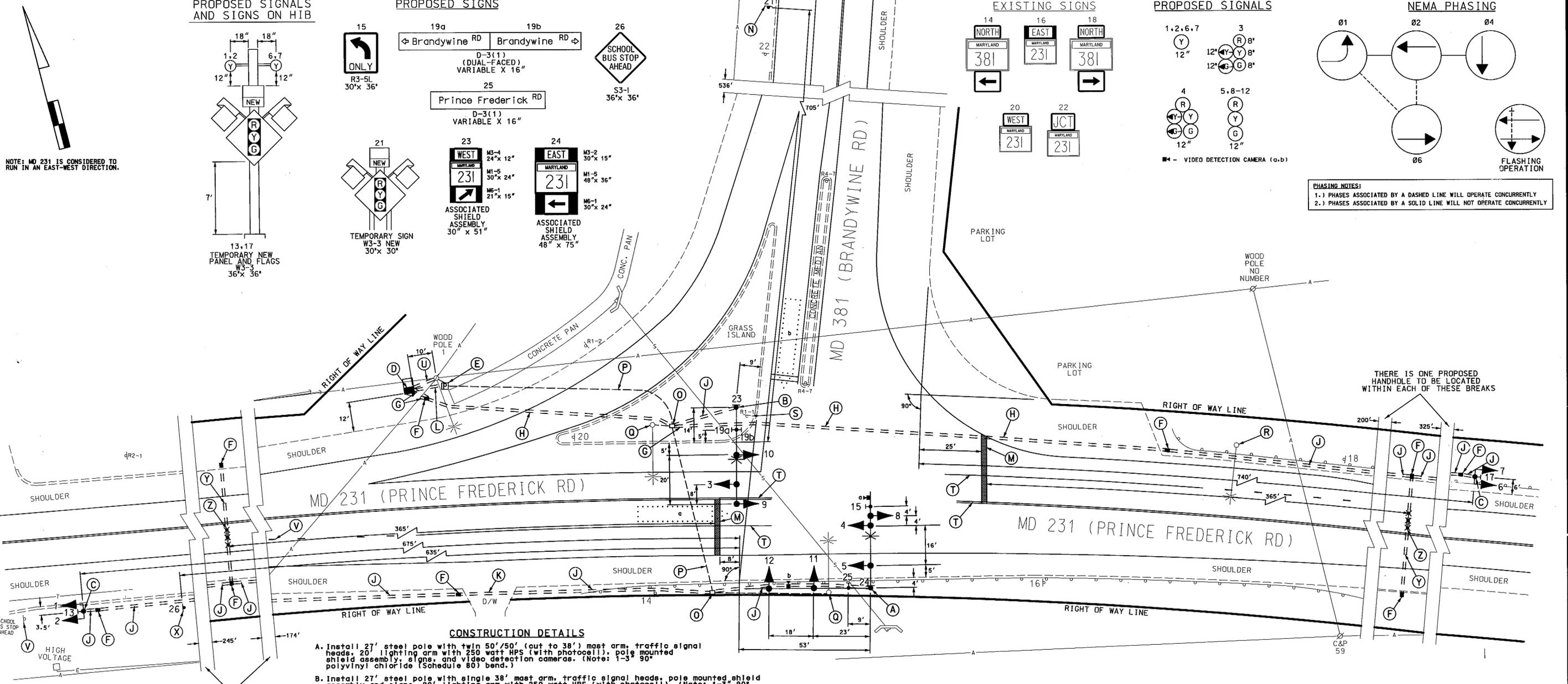


DRILL HOLES

DRILL HOLES

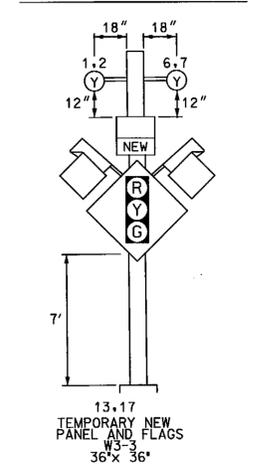
DRILL HOLES

BORDER REV. DATE: June 1, 2004

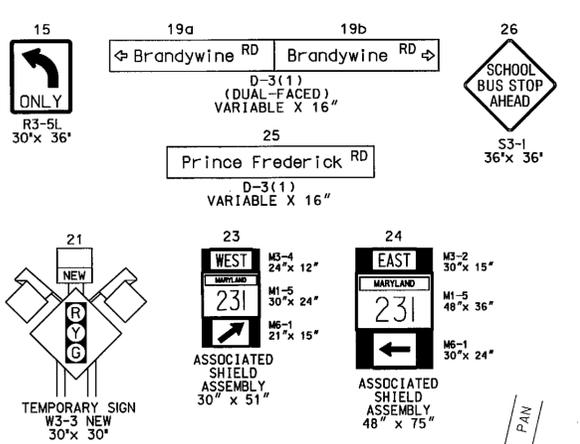


NOTE: MD 231 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

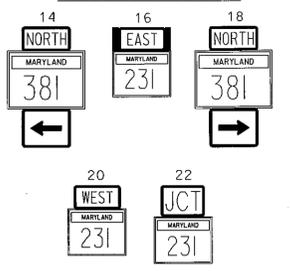
PROPOSED SIGNALS AND SIGNS ON HIB



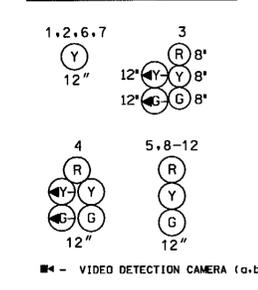
PROPOSED SIGNS



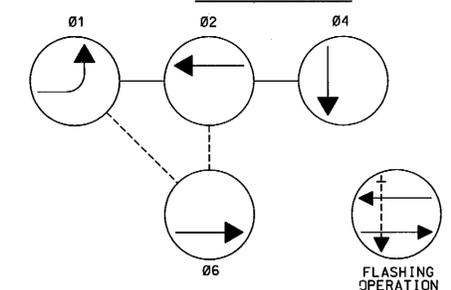
EXISTING SIGNS



PROPOSED 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

CONSTRUCTION DETAILS

- A. Install 27' steel pole with twin 50'/50' (out to 38') mast arm, traffic signal heads, 20' lighting arm with 250 watt HPS (with photocell), pole mounted shield assembly and signs, and video detection cameras. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- B. Install 27' steel pole with single 38' mast arm, traffic signal heads, pole mounted shield assembly and signs, 20' lighting arm with 250 watt HPS (with photocell). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- C. Install 14' breakaway pedestal pole with signal heads and sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- D. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.
- E. Use existing metered pedestal for proposed electrical service.
- F. Install handhole.
- G. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- H. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
- J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- K. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).
- L. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- M. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline)
- N. Install ground mounted sign on (2) 4"x 6" wood post as shown.
- O. Use existing handhole.
- P. Use existing conduit.
- Q. Remove existing lighting structure and backfill 12" below grade. (Note: Contractor shall abandon existing conduit run associated with this structure.)
- R. Remove existing lighting structure and backfill 12" below grade.
- S. Remove existing stop sign R1-1 once traffic control device is operational.
- T. Remove existing pavement markings to stopline.
- U. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched) for phone drop.
- V. Install 175' of 5" white heat applied permanent preformed pavement marking (3' line, 9" space).
- W. Remove existing ground mounted sign.
- X. Install ground mounted sign on 4"x 6" wood post as shown.
- Y. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
- Z. Install non-invasive micro-loop probe set with 1000' lead-in cables.

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.

TOD NO: XX447-09
 SHA NO: CH357A52/C52
 MD 231 @ MD 381

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 231 (PRINCE FREDERICK RD)
 AND MD 381 (BRANDYWINE RD)
 PATUXENT, MARYLAND

GEOMETRIC LEGEND

PROPOSED	---
EXISTING	---

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

ST
 STREET TRAFFIC STUDIES, LTD.
 400 Craft Hwy, NW
 Glen Burnie, MD 21061
 Ph (410) 590-5500
 Fax (410) 590-6637

APPROVALS	REVISIONS
J.A.A. 6-15-09 YEAR LEADER P. J. Baka 6-15-09 ASST. DIV. CHIEF W. J. Nies 4/15/09 DIVISION CHIEF J. H. 4/15/09 OFFICE DIRECTOR	

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 6-12-2009 CONTRACT NO. XX4475185

DESIGNED BY JAMES ALLEN JR.	COUNTY CHARLES
DRAWN BY W.J. NIES / D.A. NIES	LOGMILE 08023105.54
CHECKED BY [Signature]	TMS NO. J421
F.A.P. NO.	TOD NO.

TS NO. 4711 DRAWING NO. 1 OF 2 SHEET NO. OF

PLOTTED: #DATETMS
 FILE: #FILES

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