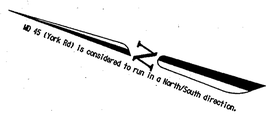
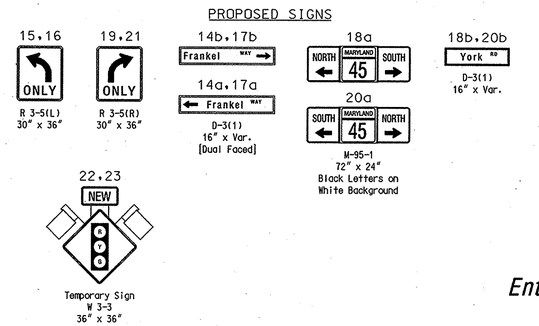
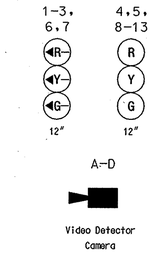


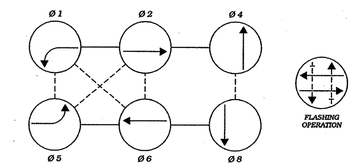
PROPOSED SIGNS



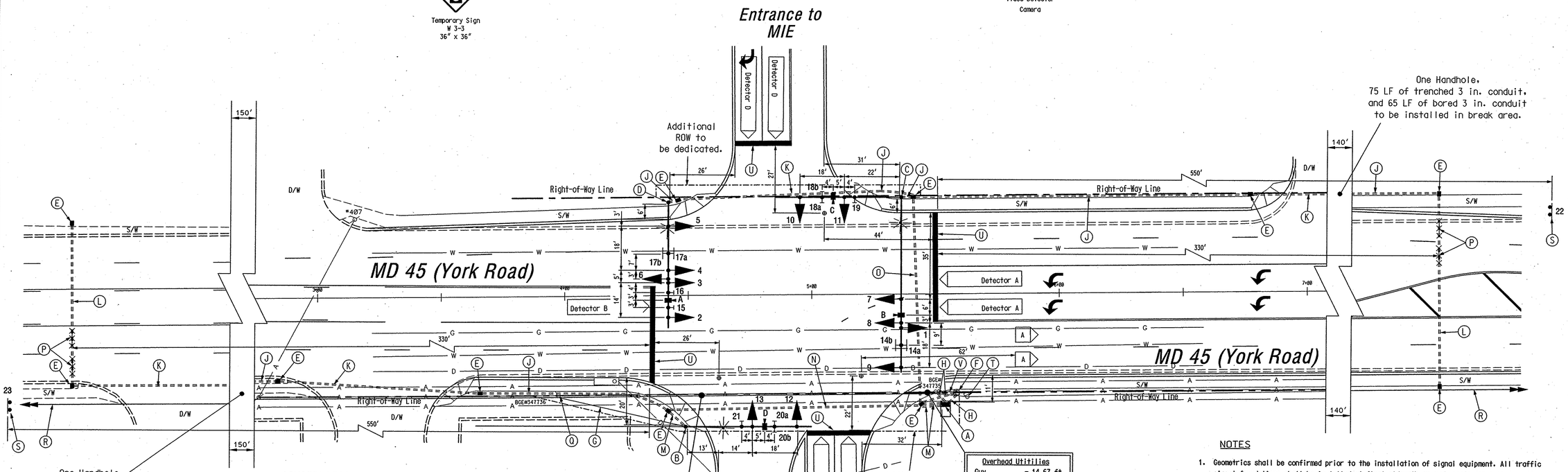
PROPOSED SIGNALS



PROPOSED NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



Overhead Utitilies	
Guy	- 14.17 ft.
CATV	- 16.83 ft.
Telephone	- 16.5 ft.
SHA I/C	- 17.75 ft.
Netural	- 20 ft.
Secondary	- 26 ft.
High Voltage	- 35 ft.

Overhead Utitilies	
Guy	- 14.67 ft.
CATV	- 18.33 ft.
Telephone	- 18.75 ft.
SHA I/C	- 19.5 ft.
Netural	- 22 ft.
Secondary	- 29 ft.
High Voltage	- 36 ft.

CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet/controller, and necessary equipment (Note: two 4 in. PVC conduit bends & two 2 in. PVC conduit bends).
B. Install 27 ft. steel mast arm pole with 50 ft. mast arm, vehicle signal heads, signs, video detector, 15 ft. luminaire arm, 250 watt HPS luminaire, and a 3 in. weatherhead (Note: one 4 in. PVC conduit bend).
C. Install 27 ft. steel twin mast arm pole with a 50 ft. and a 70 ft. mast arms, vehicle signal heads, signs, video detectors, 10 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
D. Install 27 ft. steel mast arm pole with 50 ft. mast arm, vehicle signal heads, signs, video detector, 10 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
E. Install handhole.
F. Install Electrical Service Pedestal and all necessary equipment for a MD-SHA Type 807.05-01 underground electrical service.
G. Install new overhead interconnect cables (slack span) from utility pole to mast arm pole.
H. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
J. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
L. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted.
M. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
N. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
O. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted.
P. Install non-invasive mirco-loop probe (set of 3).
Q. Use existing utilitiy pole. Replace existing interconnect cable at same location as present interconnect cable.
R. Replace existing interconnect cable at same location as present interconnect cable (See Seperate Interconnect Plan).
S. Install ground mounted sign as shown.
T. Remove existing steel pole and all attached equipment.
U. Install 24 in. wide pavement marking - white for stop line.
V. Install 4 in. conduit to base of utility pole for underground electrical service by BGE.

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at 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, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
4. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
D	STORM DRAIN
A	AERIAL CABLES
T	TELEPHONE CABLES

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC/ENGINEERING DESIGN DIVISION 2-9-06

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 2/9/06

DIRECTOR, TRAFFIC & SAFETY 2/9/06

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 45 (York Rd) @ Frankel Way/ Entrance to MIE

DRAWN BY:	J. Dirndorfer	F.A.P. NO.	N/A	TS NO. 4457	SHEET NO. 1 OF 2
CHECKED BY:	---	S.H.A. NO.	BW996M82		
SCALE:	1" = 20'	COUNTY:	Baltimore	T.I.M.S. NO. H353	
DATE:	February 9, 2006	LOG MILE:	03045007.40		

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