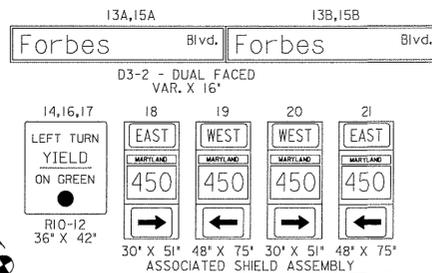
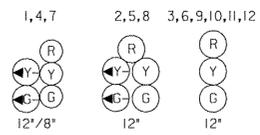


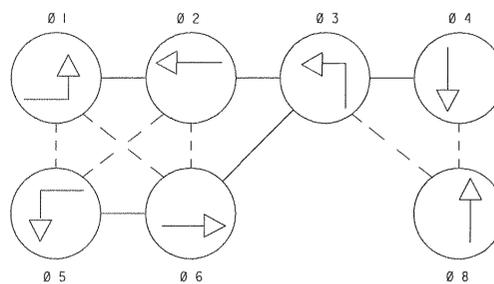
SIGNS



SIGNALS



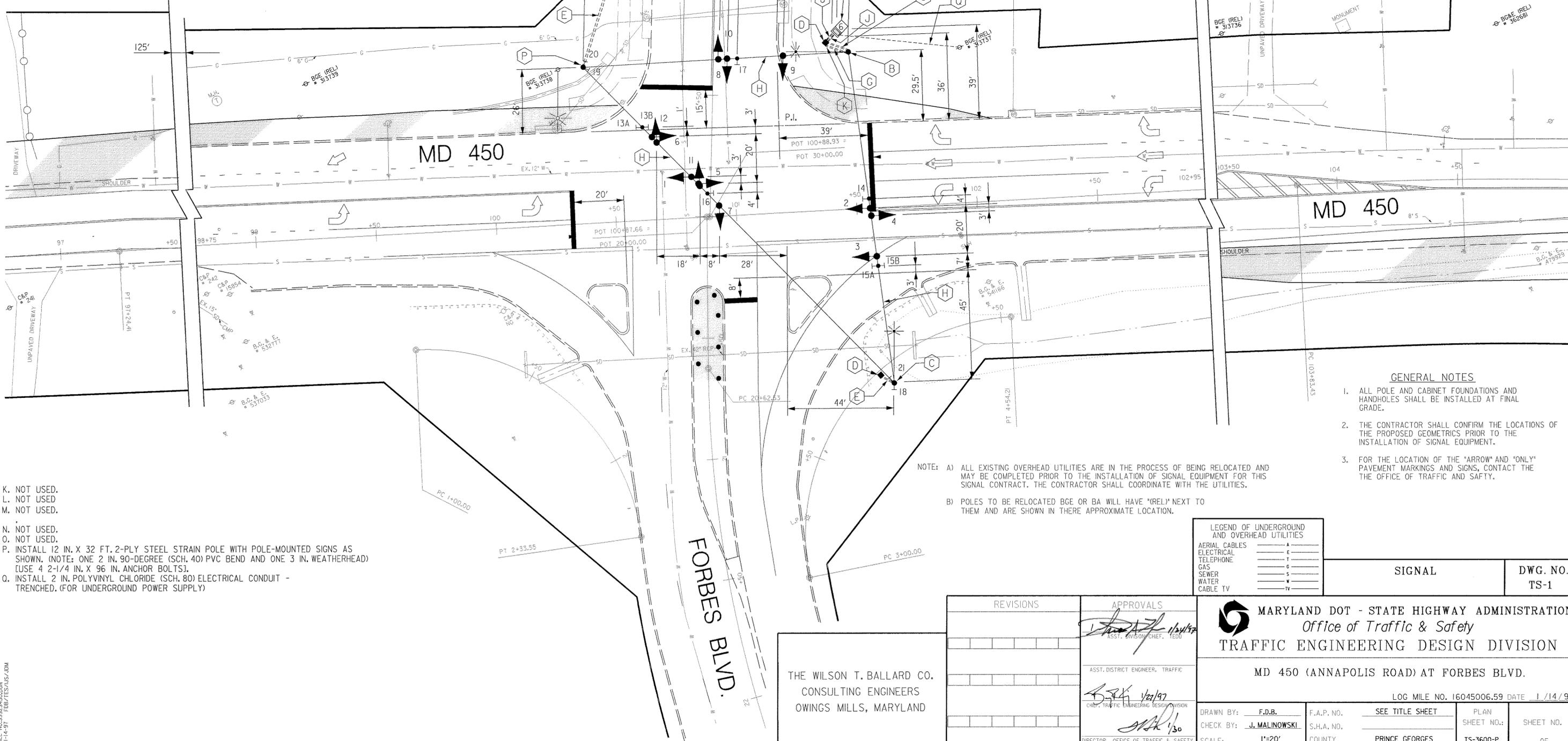
NEMA PHASING



PHASING NOTES
 1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
 2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

- A. INSTALL BASE-MOUNTED CABINET/CONTROLLER WITH ALL NECESSARY EQUIPMENT FOR AN UNDERGROUND ELECTRICAL SERVICE. (NOTE: TWO 4 IN., 90-DEGREE (SCH. 40) BENDS, ONE 3 IN., 90-DEGREE (SCH. 40) PVC BEND AND ONE 2 IN., 90-DEGREE (SCH. 80) PVC BEND.
- B. INSTALL 12 IN. X 32 FT. 2-PLY STEEL STRAIN POLE WITH 20 FT. LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: TWO 3 IN. 90-DEGREE (SCH. 40) PVC BENDS AND ONE 3 IN. WEATHERHEAD) [USE FOUR 2-1/4 IN. X 96 IN. ANCHOR BOLTS]
- C. INSTALL 12 IN. X 32 FT. 2-PLY STEEL STRAIN POLE WITH POLE-MOUNTED SIGNS AND A 20-FT. LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: ONE 2 IN. 90-DEGREE (SCH. 40) PVC BEND AND ONE 3 IN. WEATHERHEAD) [USE 4 2-1/4 IN. X 96 IN. ANCHOR BOLTS].
- D. INSTALL HANDHOLE.
- E. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. STEEL TETHER WIRE, VEHICLE SIGNAL HEADS AND SIGN AS SHOWN. (NOTE: PROVIDE APPROXIMATELY 50 FT. OF ADDITIONAL ELECTRICAL CABLE FOR EACH SIGNAL HEAD FOR USE DURING ROADWAY CONSTRUCTION PHASING/STAGING. TETHER THE 5-SECTION SIGNAL HEADS AND SIGNS)
- J. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.

MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



- K. NOT USED.
- L. NOT USED.
- M. NOT USED.
- N. NOT USED.
- O. NOT USED.
- P. INSTALL 12 IN. X 32 FT. 2-PLY STEEL STRAIN POLE WITH POLE-MOUNTED SIGNS AS SHOWN. (NOTE: ONE 2 IN. 90-DEGREE (SCH. 40) PVC BEND AND ONE 3 IN. WEATHERHEAD) [USE 4 2-1/4 IN. X 96 IN. ANCHOR BOLTS].
- Q. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - TRENCHED. (FOR UNDERGROUND POWER SUPPLY)

NOTE: A) ALL EXISTING OVERHEAD UTILITIES ARE IN THE PROCESS OF BEING RELOCATED AND MAY BE COMPLETED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT FOR THIS SIGNAL CONTRACT. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITIES.
 B) POLES TO BE RELOCATED BGE OR BA WILL HAVE "REL" NEXT TO THEM AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.

- GENERAL NOTES**
1. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
 2. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF THE PROPOSED GEOMETRICS PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
 3. FOR THE LOCATION OF THE "ARROW" AND "ONLY" PAVEMENT MARKINGS AND SIGNS, CONTACT THE OFFICE OF TRAFFIC AND SAFETY.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

SIGNAL	DWG. NO. TS-1
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REVISIONS	APPROVALS
	<i>[Signature]</i> 1/14/97 ASST. DIVISION CHIEF, TRAFFIC
	<i>[Signature]</i> 1/21/97 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 1/30 DIRECTOR, OFFICE OF TRAFFIC & SAFETY

THE WILSON T. BALLARD CO.
 CONSULTING ENGINEERS
 OWINGS MILLS, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT FORBES BLVD.

LOG MILE NO. 16045006.59 DATE 1/14/97

DRAWN BY: F.D.B.	F.A.P. NO. SEE TITLE SHEET	PLAN SHEET NO.:	SHEET NO.
CHECK BY: J. MALINOWSKI	S.H.A. NO.	PRINCE GEORGES	TS-3600-P
SCALE: 1"=20'	COUNTY	OF	