MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

SIGNS

21,26 — W3-3 (36" X 36") W/"NEW" PANEL (30" X 30") AND FLAGS

22,24,27,30 — Technology DR

23,28,29,34 — R3-5L (30" X 36") ONLY

25,32 — R3-5R (30" X 36") ONLY

35 — R3-6 (30" X 36")

31 — W9-2(4) (30" X 42") LANE ENDS MERGE LEFT

33 — W95-1 (72" X 24") WEST 22 EAST

36 — W95-1 (72" X 24") EAST 22 WEST

SIGNAL HEADS

1,2,5,6 — 12"

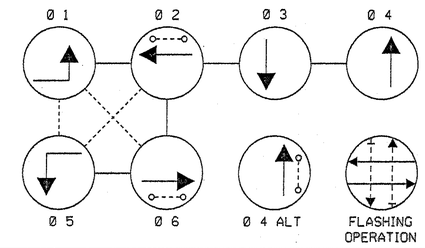
3,4,7,8, 11,14 — 12"

9,12 — 8"/12"

10,13 — 12"

15-20

NEMA PHASING

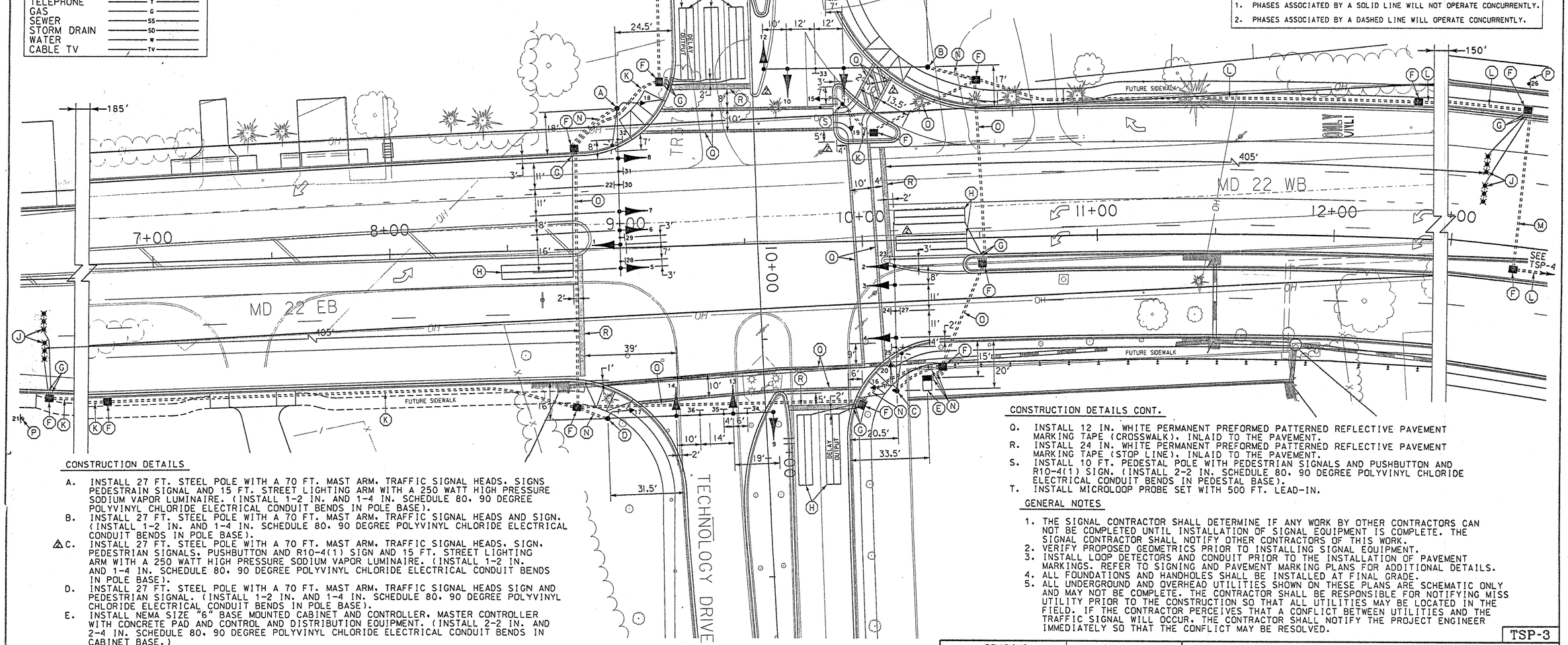


PHASING NOTES:

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

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS PEDESTRAIN SIGNAL AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS AND SIGN. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

△C. INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGN, PEDESTRIAN SIGNALS, PUSHBUTTON AND R10-4(1) SIGN AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

D. INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS SIGN AND PEDESTRIAN SIGNAL. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

E. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER, MASTER CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)

F. INSTALL HANDHOLE.

G. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

H. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.

J. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN..

K. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

L. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

M. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).

N. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

O. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).

P. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. X 6 IN. TREATED WOOD POST APPROXIMATELY 625 FT. IN ADVANCE OF THE INTERSECTION ON EASTBOUND AND WESTBOUND MD 22.

CONSTRUCTION DETAILS CONT.

Q. INSTALL 12 IN. WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING TAPE (CROSSWALK), INLAID TO THE PAVEMENT.

R. INSTALL 24 IN. WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING TAPE (STOP LINE), INLAID TO THE PAVEMENT.

S. INSTALL 10 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNALS AND PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

T. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.

GENERAL NOTES

1. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
2. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
3. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
4. ALL FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

TSP-3

WR&A
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Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	
△ REVISED GEOMETRICS ADDENDUM NO. 2	9/01
NML	

APPROVALS

TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION — 9/10/01

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 9/12/01

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 22 AND TECHNOLOGY DRIVE

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO. 4125	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: HARFORD	T.I.M.S. NO. 7-958	117 OF 360
DATE: 9/10/01	LOG MILE:		

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