F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROPOSED SIGNALS

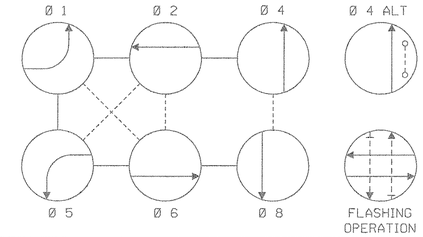
1,2,5,6 — 12"
3,4,7,8 — 12"
9–12 — 8"
13–16

PROPOSED SIGNS

17,18,19,20 — Taylor RD — D3-2 (DUAL FACED) (VARIABLE x 16")
21 — EAST MARYLAND 410 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")
22 — WEST MARYLAND 410 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")
24 — WEST MARYLAND 410 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")
25 — EAST MARYLAND 410 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")
23 — ONLY — R3-5R (30" X 36")

MD 410 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

NEMA PHASING

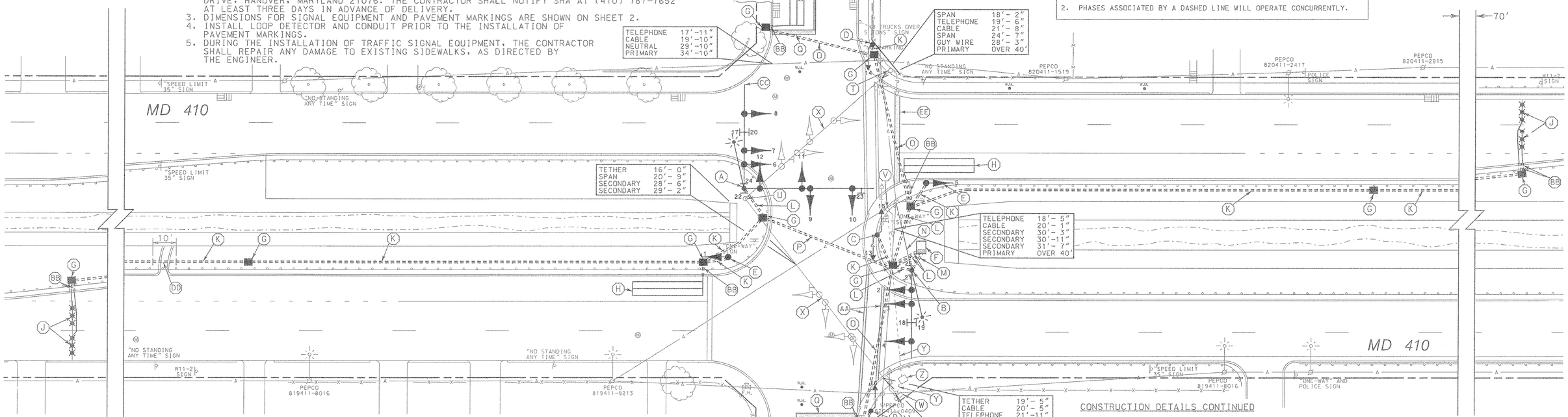


PHASING NOTES:

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

GENERAL NOTES:

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL NOTIFY MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL CONSTRUCTION WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. THE EXISTING CABINET AND CONTROLLER SHALL BE DELIVERED TO SHA AT 7941 CONNOLLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
3. DIMENSIONS FOR SIGNAL EQUIPMENT AND PAVEMENT MARKINGS ARE SHOWN ON SHEET 2.
4. INSTALL LOOP DETECTOR AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
5. DURING THE INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS, AS DIRECTED BY THE ENGINEER.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./50 FT. (CUT TO 45 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS AND 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
B. INSTALL 27 FT. STEEL POLE WITH SINGLE 38 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, 1 IN. GALVANIZED RISER FOR PHONE DROP AND 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINARE (INSTALL 1-3 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINAL CHLORIDE CONDUIT BENDS IN POLE BASE).
C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNALS, PUSHBUTTON AND R10-3C SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND IN POLE BASE).
D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-3C SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND IN POLE BASE.)
E. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE AND TRAFFIC SIGNAL HEAD (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND IN POLE BASE).
F. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER (INSTALL 1-2 IN., 1-3 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND IN POLE BASE).
G. INSTALL HANDHOLE.
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 1000 FT. LEAD-IN.
K. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (TRENCHED).
M. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (TRENCHED). FOR PROPOSED ELECTRICAL SERVICE.
N. PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE.
O. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (SLOTTED).
P. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (SLOTTED).

CONSTRUCTION DETAILS CONTINUED

Q. INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE (STOP LINE).
R. INSTALL 6 IN. YELLOW THERMOPLASTIC PAVEMENT MARKING TAPE (CENTER LINE).
S. INSTALL 6 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE (LANE LINE).
T. REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL, PUSHBUTTON AND FOUNDATION 12 IN. BELOW GRADE.
U. REMOVE EXISTING STRAIN POLE AND FOUNDATION 12 IN. BELOW GRADE.
V. REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNALS, PUSHBUTTON AND FOUNDATION 12 IN. BELOW GRADE.
W. REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL, PUSHBUTTON, CABINET AND CONTROLLER AND FOUNDATION 12 IN. BELOW GRADE. CABINET AND CONTROLLER SHALL BE DELIVERED TO SHA.
X. REMOVE EXISTING SPAN WIRE, TETHER WIRE, SIGNAL HEADS AND SIGN.
Y. ABANDON EXISTING CONDUIT.
Z. ABANDON EXISTING HANDHOLE.
AA. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE (CROSSWALK).
BB. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
CC. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
DD. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL ELECTRICAL CONDUIT (BORED)
EE. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE (STOP LINE).

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LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

WR&A
Whitman, Requardt and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	APPROVALS	REVISIONS
A RECONSTRUCT TRAFFIC SIGNAL 10/97 NML	ASSISTANT DIVISION CHIEF	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 410 AND TAYLOR ROAD

DATE: 10-1-97	DRAWN BY:	F.A.P. NO. N/A	PLAN SHEET NO.:	SHEET NO.
SCALE: 1" = 20'	DESIGNED BY:	S.H.A. NO. AW 277A5H/B&H	TS-3204A	1 OF 3
APPROVED BY:	CHECKED BY:	COUNTY PRINCE GEORGES		