US 1 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

SIGNS

15, 19 — LEFT TURN YIELD ON GREEN — R10-12 (36" X 42")

14 — ← Rowanberry DR

16 — Pine AVE →

20 — Rowanberry DR → — D-3(1) (VARIABLE x 16")

18 — ← Pine AVE — D-3(1) (VARIABLE x 16")

22 — SOUTH 1 → — ASSOCIATED SHIELD ASSEMBLY (24" X 51")

23 — NORTH 1 ← — ASSOCIATED SHIELD ASSEMBLY (36" X 75")

25 — ONLY — R3-5R (30" X 36")

21,24,26,27 — Washington BLVD — D-3(1) (DUAL FACED) (VARIABLE x 16")

SIGNAL HEADS

1,4 — 12"/8"

2,5 — 12"

3,6,8,9, 11,12 — 12"

7,10 — 8"

SIGNS

13 — NEW — ← Rowanberry Dr / Pine Ave → — W3-3 (48" X 48") W/"NEW" PANEL (30" X 30") AND D-3(2) BLACK ON YELLOW (VARIABLE X 32")

17 — NEW — ← Pine Ave / Rowanberry Dr → — W3-3 (48" X 48") W/"NEW" PANEL (30" X 30") AND D-3(2) BLACK ON YELLOW (VARIABLE X 32")

NEMA PHASING

Ø 1, Ø 2, Ø 4, Ø 5, Ø 6, Ø 8

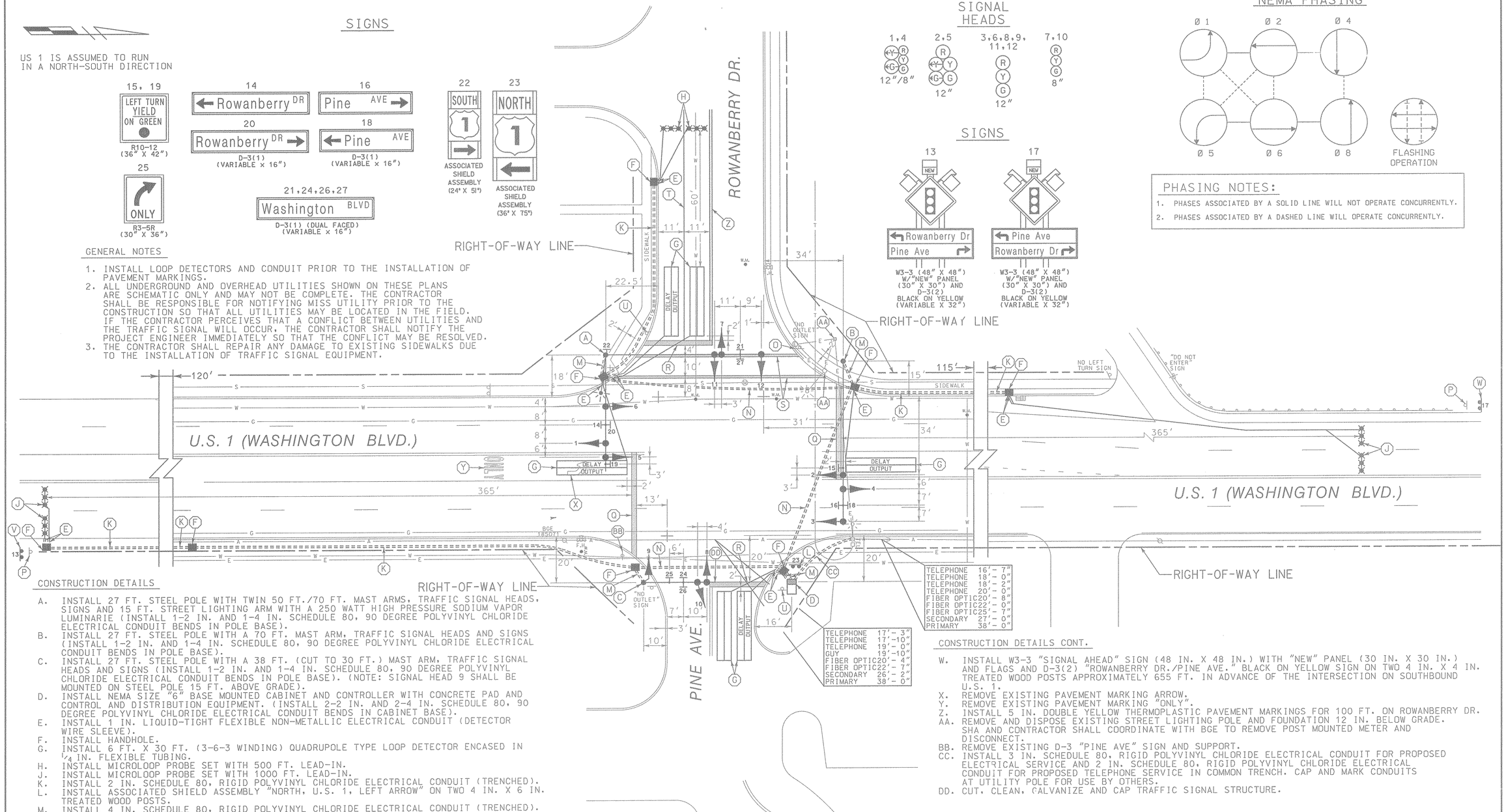
FLASHING OPERATION

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. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
2. 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.
3. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS DUE TO THE INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINARIE (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 SIGNS (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 38 FT. (CUT TO 30 FT.) MAST ARM, TRAFFIC SIGNAL HEADS AND SIGNS (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE). (NOTE: SIGNAL HEAD 9 SHALL BE MOUNTED ON STEEL POLE 15 FT. ABOVE GRADE).
D. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND 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).
E. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
F. INSTALL HANDHOLE.
G. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
H. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
J. INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
K. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL ASSOCIATED SHIELD ASSEMBLY "NORTH, U.S. 1, LEFT ARROW" ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS.
M. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
N. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
O. REMOVE EXISTING W14-2 SIGN AND SUPPORT.
P. REMOVE EXISTING WHITE ON GREEN STREET NAME PANEL AND SUPPORT LOCATED APPROXIMATELY 495 FT. AND 410 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND AND NORTHBOUND U.S. 1 RESPECTIVELY.
Q. INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
R. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
S. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (CROSS WALK).
T. INSTALL 5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS FOR 100 FT. ON ROWANBERRY DR.
U. REMOVE EXISTNG R1-1 SIGN AND SUPPORT.
V. INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. X 48 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS AND D-3(2) "ROWANBERRY DR./PINE AVE." BLACK ON YELLOW SIGN ON TWO 4 IN. X 4 IN. TREATED WOOD POSTS APPROXIMATELY 750 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND U.S. 1.

CONSTRUCTION DETAILS CONT.

W. INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. X 48 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS AND D-3(2) "ROWANBERRY DR./PINE AVE." BLACK ON YELLOW SIGN ON TWO 4 IN. X 4 IN. TREATED WOOD POSTS APPROXIMATELY 655 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND U.S. 1.
X. REMOVE EXISTING PAVEMENT MARKING ARROW.
Y. REMOVE EXISTING PAVEMENT MARKING "ONLY".
Z. INSTALL 5 IN. DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS FOR 100 FT. ON ROWANBERRY DR.
AA. REMOVE AND DISPOSE EXISTING STREET LIGHTING POLE AND FOUNDATION 12 IN. BELOW GRADE. SHA AND CONTRACTOR SHALL COORDINATE WITH BGE TO REMOVE POST MOUNTED METER AND DISCONNECT.
BB. REMOVE EXISTING D-3 "PINE AVE" SIGN AND SUPPORT.
CC. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED TELEPHONE SERVICE IN COMMON TRENCH. CAP AND MARK CONDUITS AT UTILITY POLE FOR USE BY OTHERS.
DD. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

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

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION — 8/2/99

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 8/2/99

DIRECTOR, TRAFFIC & SAFETY — 8/4/99

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
U.S. 1 @ ROWANBERRY DR./PINE AVE.

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO. TS-3939	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.		
SCALE: 1"= 20'	COUNTY: HOWARD	T.I.M.S. NO. D-237	1 OF 2
DATE: 7-30-99	LOG MILE: 13010009.03		

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