F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD		1	1

EXISTING SIGNALS & SIGNS

1 — 12" R Y G; 12" R Y G

2-7 — 12" R Y G

8,11 — 12"

12 — LEFT TURN YIELD ON GREEN; R 10-12 36"X42"

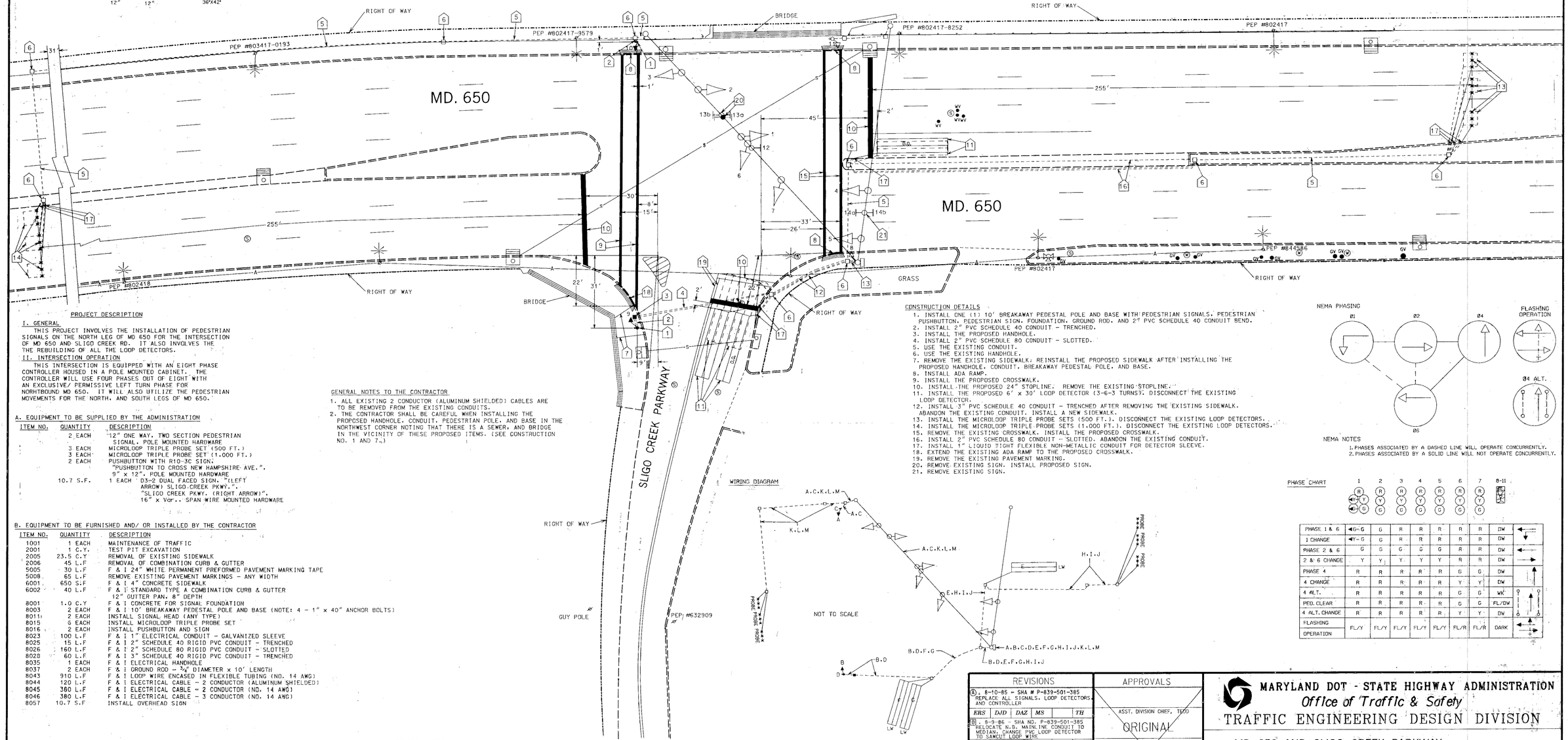
13a,13b,14a,14b — Sligo Creek Pkwy.; D3-2 16" x Var.

PROPOSED SIGNALS & SIGNS

9,10 — 12"

13a — ← Sligo Creek Pkwy.

13b — Sligo Creek Pkwy. →; D3-2 16" x Var. DUAL FACED



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNALS ON THE NORTH LEG OF MD 650 FOR THE INTERSECTION OF MD 650 AND SLIGO CREEK RD. IT ALSO INVOLVES THE THE REBUILDING OF ALL THE LOOP DETECTORS.

II. INTERSECTION OPERATION

THIS INTERSECTION IS EQUIPPED WITH AN EIGHT PHASE CONTROLLER HOUSED IN A POLE MOUNTED CABINET. THE CONTROLLER WILL USE FOUR PHASES OUT OF EIGHT WITH AN EXCLUSIVE/ PERMISSIVE LEFT TURN PHASE FOR NORHTBOUND MD 650. IT WILL ALSO UTILIZE THE PEDESTRIAN MOVEMENTS FOR THE NORTH, AND SOUTH LEGS OF MD 650.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
	2 EACH	12" ONE WAY, TWO SECTION PEDESTRIAN SIGNAL, POLE MOUNTED HARDWARE
	3 EACH	MICROLOOP TRIPLE PROBE SET (500 FT.)
	3 EACH	MICROLOOP TRIPLE PROBE SET (1,000 FT.)
	2 EACH	PUSHBUTTON WITH R10-3C SIGN. "PUSHBUTTON TO CROSS NEW HAMPSHIRE AVE.", 9" x 12", POLE MOUNTED HARDWARE
	10.7 S.F.	1 EACH D3-2 DUAL FACED SIGN. ("LEFT ARROW) SLIGO CREEK PKWY.", "SLIGO CREEK PKWY. (RIGHT ARROW)", 16" x Var., SPAN WIRE MOUNTED HARDWARE

B. EQUIPMENT TO BE FURNISHED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
2005	23.5 C.Y	REMOVAL OF EXISTING SIDEWALK
2006	45 L.F	REMOVAL OF COMBINATION CURB & GUTTER
5005	30 L.F	F & I 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5008	65 L.F	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
6001	650 S.F	F & I 4" CONCRETE SIDEWALK
6002	40 L.F	F & I STANDARD TYPE A COMBINATION CURB & GUTTER 12" GUTTER PAN, 8" DEPTH
8001	1.0 C.Y	F & I CONCRETE FOR SIGNAL FOUNDATION
8003	2 EACH	F & I 10' BREAKAWAY PEDESTAL POLE AND BASE (NOTE: 4 - 1" x 40" ANCHOR BOLTS)
8011	2 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8015	6 EACH	INSTALL MICROLOOP TRIPLE PROBE SET
8016	2 EACH	INSTALL PUSHBUTTON AND SIGN
8023	100 L.F	F & I 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8025	15 L.F	F & I 2" SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
8026	160 L.F	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8028	60 L.F	F & I 3" SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
8035	1 EACH	F & I ELECTRICAL HANDHOLE
8037	2 EACH	F & I GROUND ROD - 3/4" DIAMETER x 10' LENGTH
8043	910 L.F	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8044	120 L.F	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8045	380 L.F	F & I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8046	380 L.F	F & I ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
8057	10.7 S.F	INSTALL OVERHEAD SIGN

GENERAL NOTES TO THE CONTRACTOR

1. ALL EXISTING 2 CONDUCTOR (ALUMINUM SHIELDED) CABLES ARE TO BE REMOVED FROM THE EXISTING CONDUITS.
2. THE CONTRACTOR SHALL BE CAREFUL WHEN INSTALLING THE PROPOSED HANDHOLE, CONDUIT, PEDESTRIAN POLE, AND BASE IN THE NORTHWEST CORNER NOTING THAT THERE IS A SEWER, AND BRIDGE IN THE VICINITY OF THESE PROPOSED ITEMS. (SEE CONSTRUCTION NO. 1 AND 7.)

CONSTRUCTION DETAILS

1. INSTALL ONE (1) 10' BREAKAWAY PEDESTAL POLE AND BASE WITH PEDESTRIAN SIGNALS, PEDESTRIAN PUSHBUTTON, PEDESTRIAN SIGN, FOUNDATION, GROUND ROD, AND 2" PVC SCHEDULE 40 CONDUIT BEND.
2. INSTALL 2" PVC SCHEDULE 40 CONDUIT - TRENCHED.
3. INSTALL THE PROPOSED HANDHOLE.
4. INSTALL 2" PVC SCHEDULE 80 CONDUIT - SLOTTED.
5. USE THE EXISTING CONDUIT.
6. USE THE EXISTING HANDHOLE.
7. REMOVE THE EXISTING SIDEWALK; REINSTALL THE PROPOSED SIDEWALK AFTER INSTALLING THE PROPOSED HANDHOLE, CONDUIT, BREAKAWAY PEDESTAL POLE, AND BASE.
8. INSTALL ADA RAMP.
9. INSTALL THE PROPOSED CROSSWALK.
10. INSTALL THE PROPOSED 24" STOPLINE. REMOVE THE EXISTING STOPLINE.
11. INSTALL THE PROPOSED 6' x 30' LOOP DETECTOR (3-6-3 TURNS). DISCONNECT THE EXISTING LOOP DETECTOR.
12. INSTALL 3" PVC SCHEDULE 40 CONDUIT - TRENCHED AFTER REMOVING THE EXISTING SIDEWALK. ABANDON THE EXISTING CONDUIT. INSTALL A NEW SIDEWALK.
13. INSTALL THE MICROLOOP TRIPLE PROBE SETS (500 FT.). DISCONNECT THE EXISTING LOOP DETECTORS.
14. INSTALL THE MICROLOOP TRIPLE PROBE SETS (1,000 FT.). DISCONNECT THE EXISTING LOOP DETECTORS.
15. REMOVE THE EXISTING CROSSWALK. INSTALL THE PROPOSED CROSSWALK.
16. INSTALL 2" PVC SCHEDULE 80 CONDUIT - SLOTTED. ABANDON THE EXISTING CONDUIT.
17. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
18. EXTEND THE EXISTING ADA RAMP TO THE PROPOSED CROSSWALK.
19. REMOVE THE EXISTING PAVEMENT MARKING.
20. REMOVE EXISTING SIGN. INSTALL PROPOSED SIGN.
21. REMOVE EXISTING SIGN.

NEMA PHASING

NEMA NOTES

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

WIRING DIAGRAM

PHASE CHART

	1	2	3	4	5	6	7	8-11	
PHASE 1 & 6	◄G-G	G	R	R	R	R	R	DW	
1 CHANGE	◄Y-G	G	R	R	R	R	R	DW	
PHASE 2 & 6	G	G	G	G	G	R	R	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	DW	
PHASE 4	R	R	R	R	R	G	G	DW	
4 CHANGE	R	R	R	R	R	Y	Y	DW	
4 ALT.	R	R	R	R	R	G	G	WK	
PED. CLEAR	R	R	R	R	R	G	G	FL/DW	
4 ALT. CHANGE	R	R	R	R	R	Y	Y	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES

GENERAL NOTES

1. "D.O." DENOTES A DELAY-OUTPUT LOOP DETECTOR.
2. REVISION "C" IS A MODIFICATION TO WORK COMPLETED UNDER THE ORIGINAL CONTRACT.
3. THE ORIGNAL TS-373 IS ON FILE.

A-B = 3 CONDUCTOR CABLE (NO. 14 AWG)
C-D = 2 CONDUCTOR CABLE (NO. 14 AWG)
E-G = 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE (NO. 14 AWG)
H-J = MICROLOOP TRIPLE PROBE SET (500 FT.)
K-M = MICROLOOP TRIPLE PROBE SET (1,000 FT.)
LW = LOOP WIRE
PROBE = MICROLOOP TRIPLE PROBE SET

REVISIONS

A. 8-10-85 - SHA # P-839-501-385 REPLACE ALL SIGNALS, LOOP DETECTORS, AND CONTROLLER

ERS	DJD	DAZ	MS	TH

B. 8-9-86 - SHA NO. P-839-501-385 RELOCATE N.B. MAIN LINE CONDUIT TO MEDIAN. CHANGE PVC LOOP DETECTOR TO SAWCUT LOOP WIRE

ERS	SR	DRW	DW	TH

C. 03/97 - SHA NO. AW-102-501-385 ADDED PED. SIGNALS TO NORTH LEG OF MD 650 & REBUILT ALL DETECTORS

APPROVALS

ASST. DIVISION CHIEF, TEDD — ORIGINAL

ASST. DISTRICT ENGINEER, TRAFFIC — ON

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — FILE

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

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

MD. 650 AND SLIGO CREEK PARKWAY

DATE:

DRAWN BY: J. SPENCE	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
DES. BY: J. SPENCE	S.H.A. NO.	TS-373 C	1 OF 1
CHECK BY:	COUNTY PRINCE GEORGE'S		
SCALE: 1" = 20'			

Log Mile: K0C5001.25