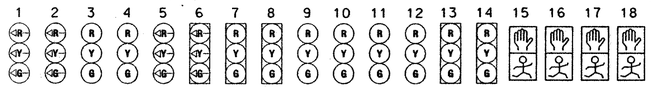
PROJECT DESCRIPTION

THIS PROJECT INVOLES THE INSTALLATION OF PEDESTRIAN SIGNAL INDICATIONS ON THE WEST SIDE OF THE INTERSECTION AND THE REPLACEMENT OF SAMPELING STATIONS AND ADVANCE MICROLOOP PROBES ON U.S. 40. IT IS ASSUMED U.S. 40 RUNS EAST-WEST. THIS SIGNAL OPERATES IN A NEMA 7-PHASE OPERATION.

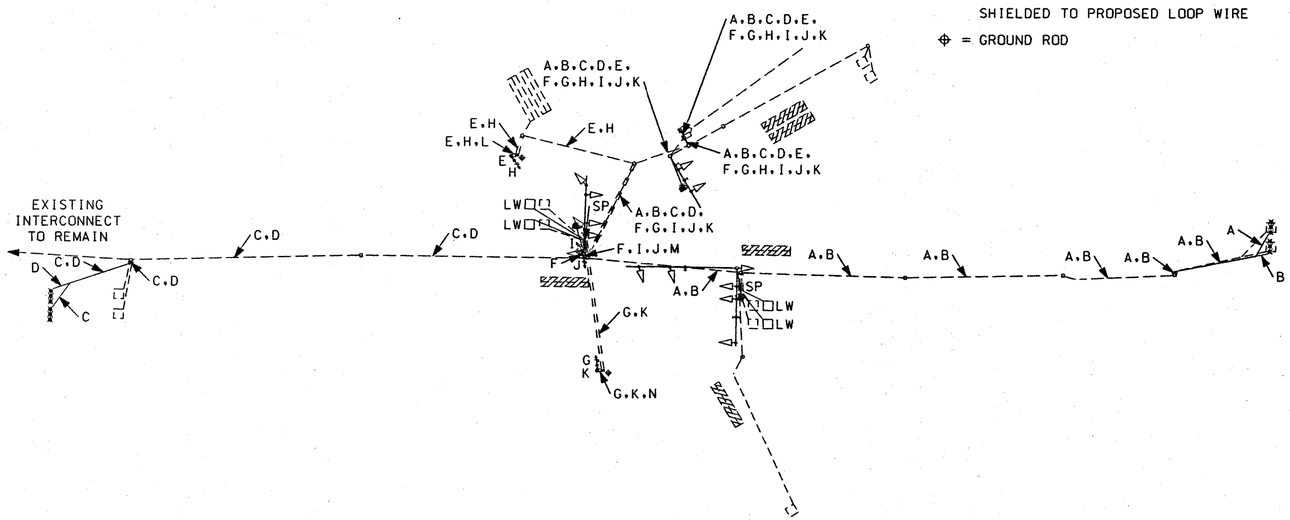
PHASING CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	~~G~~	~~G~~	R	R	~~G~~	~~G~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5								R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 & 6	~~G~~	~~G~~	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	~~Y~~	~~Y~~	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	R	~~G~~	~~G~~	G	G	R	R	R	R	R	R	DW	DW	DW	DW
5 CHANGE	R	R	R	R	~~Y~~	~~Y~~	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 & 7	R	R	R	R	R	R	R	R	G	G	G	G	R	R	DW	DW	DW	DW
3 & 7 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW
ALTERNATE PHASE 3	R	R	R	R	R	R	R	R	G	G	G	G	R	R	WALK	WALK	WALK	WALK
ALTERNATE CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM

A.B.C. D = MICROLOOP PROBE CABLE
E.F.G = 2 CONDUCTOR (NO. 14 AWG)
H.I.J.K = 3 CONDUCTOR (NO. 14 AWG)
L.M.N = STRANDED BARE COPPER GROUND WIRE
LW = LOOP WIRE
SP = SPLICE EXISTING 2 CONDUCTOR ALUMINUM SHIELDED TO PROPOSED LOOP WIRE
⊕ = GROUND ROD



EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED BY SHA

SPEC. NO.	CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY

EQUIPMENT LIST "B"

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. NO.	CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
801	801004	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	CY	0.14
805	805011	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE	LF	50
805	805155	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	150
805	805160	FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT	LF	10
		FOR DETECTOR SLEEVE		
---	810555	FURNISH AND INSTALL MICROLOOP PROBE, 1,000 FOOT LEAD IN CABLE	EA	4
---	811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	2
810	818004	FURNISH AND INSTALL 10' BREAKAWAY PEDESTAL POLE	EA	2
810	832020	FURNISH AND INSTALL BARE COPPER GROUND WIRE, NO. 6 AWG	LF	10
804	837001	FURNISH AND INSTALL GROUND ROD - 3/4" DIAMETER X 10' LENGTH	EA	2
814	860278	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	EA	4
814	860282	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD SECTION - PEDESTAL POLE MOUNT	EA	4
810	861105	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	535
810	861106	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	675
810	862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	LF	645
815	862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	390
817	865001	FURNISH AND INSTALL PUSHBUTTON AND SIGN	EA	3
805	870160	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	17

EQUIPMENT LIST "C"

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL MATERIALS REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

GP-2 OF GP-2

PB 100 YEARS

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNAL PLAN
U.S. 40 AT OTSEGO ST./MD 155 (OHIO ST.)

DRAWN BY: A. ESCHRICH	F.A.P. NO.		TS NO. TS-675D	SHEET NO. 35 OF 82
CHECKED BY: D. GERHARDT	S.H.A. NO.	AW526A58/B58		
SCALE: NOT TO SCALE	COUNTY:	HARFORD	T.I.M.S. NO.	
DATE: 01-04-02	LOG MILE:	12000702.66		