F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	141	156

MD 26 @ MD 194

1.) During Phase 1 Construction Activities, the existing intersection operations will remain.

CONSTRUCTION DETAILS

A. Install 12"x32" steel Strain pole (2-ply). (Note: 1-3" 90 degree polyvinyl chloride conduit bend).

C. Install handhole.

D. Install 1" liquid tight flexible non-metallic conduit sleeve for loop detector lead-in.

E. Install 2" polyvinyl chloride schedule 40 electrical conduit - trenched/buried.

G. Install 6' x 6' loop detector (3 turns).

H. Install 6' x 30' quadrupole loop detector. (2-4-2 turns)

K. Install 3/8" steel span wire, signal head, signs, and 1/4" tether wire for signs as shown.

L. Remove span wire, signals, signs and associated wiring as shown.

R. Remove existing strain pole.

BB. Cap and abandon existing conduit.

CC. Remove handhole, abandon existing lead-in conduits.

DD. Abandon existing loop detector.

OO. Install 3" polyvinyl chloride electrical conduit-trenched/buried.

UU. Install 3" electrical conduit (schedule 80) - trenched. install prior to installation of pavement.

EQUIPMENT LISTS

A. Equipment to be furnished by S.H.A.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
2	EA	806	12 inch 1 way 3 section (R,Y,G) having proper span wire mounting brackets and tunnel visors.

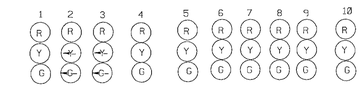
B. Equipment to be furnished and/or installed by the Contractor.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	LS	XXX	Remove and salvage existing equipment
4.65	CY	801	Concrete for signal foundation
40	LF	805	3" schedule 80 rigid PVC conduit-trenched
85	LF	805	2" schedule 40 rigid PVC conduit-trenched
8	LF	805	3" schedule 40 rigid PVC conduit-trenched
20	LF	805	1" liquid tight flexible non-metallic conduit for detector sleeve
20	LF	810	Electrical cable- 1 conductor (No. 6 AWG) stranded bare copper ground wire
420	LF	810	Electrical cable- 2 conductor (aluminum shielded)
25	LF	810	Electrical cable- 5 conductor (No. 14 AWG)
90	LF	810	Electrical cable- 7 conductor (No. 14 AWG)
385	LF	810	Loop wire encased in flexible tubing (No.14 AWG)
4	EA	811	Electrical Handhole
11	SF	813	Relocate signs from existing equipment

B. Equipment to be furnished and/or installed by the Contractor.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
2	EA	814	Install signal heads - span mount
146	LF	815	Sawcut for signal (loop detector)
130	LF	819	Stranded steel span wire- 3/8 inch diameter
130	LF	819	Stranded steel span wire- 1/4 inch diameter
2570	LB	828	12 inch x 32 foot strain pole, (Note:install 4 - 2 1/4" x 96" anchor bolts)
5	EA	XXX	Remove electrical handhole

PHASE CHART

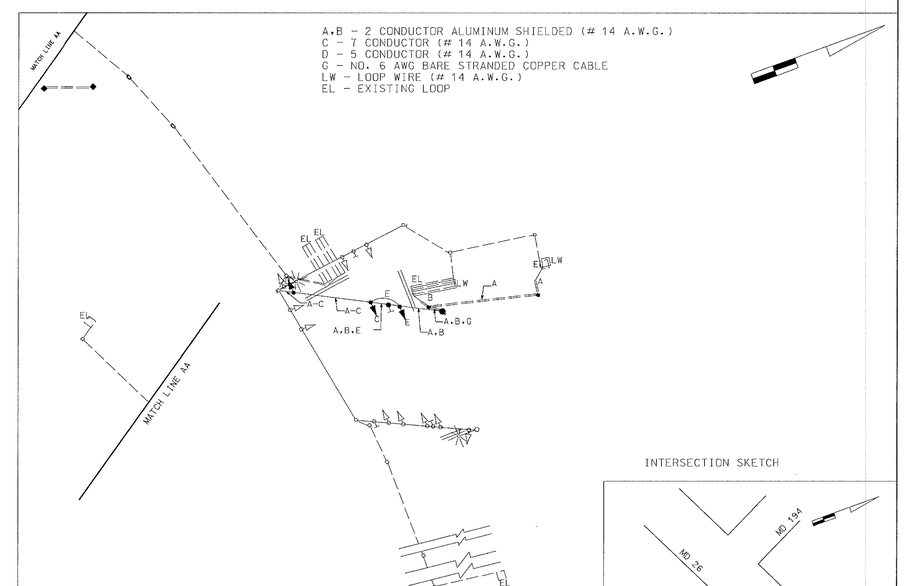


	1	2	3	4	5	6	7	8	9	10
PHASE 1+6	G	→G-	→G-	G	G	R	R	R	R	R
1+6 CHANGE	G	→Y-	→Y-	G	G	R	R	R	R	R
PHASE 2+6	G	R	R	G	G	G	G	G	R	R
2+6 CHANGE	Y	R	R	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

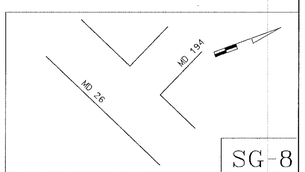
NOTE:
R = RED INDICATION
Y = YELLOW INDICATION
G = GREEN INDICATION
FL/Y = FLASHING YELLOW
FL/R = FLASHING RED
→G-= GREEN ARROW
→Y-= YELLOW ARROW

WIRING DIAGRAM

A,B - 2 CONDUCTOR ALUMINUM SHIELDED (# 14 A.W.G.)
C - 7 CONDUCTOR (# 14 A.W.G.)
D - 5 CONDUCTOR (# 14 A.W.G.)
G - NO. 6 AWG BARE STRANDED COPPER CABLE
LW - LOOP WIRE (# 14 A.W.G.)
EL - EXISTING LOOP



INTERSECTION SKETCH



PHASE 1 TEMPORARY TRAFFIC SIGNAL GENERAL INFORMATION

SG-8

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

DGL CONSULTING ENGINEERS COLUMBIA, MARYLAND

MDOT - STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

ORIGINAL DRAWN BY: M. KOTZEN
DES. BY: W. CARLSON
CHK. BY:

MD 26 @ MD 194

LOG MILE 10002602.26 COUNTY: FREDERICK

DATE: 4/95 F.A.P. NO.
SCALE: 1"=20' S.H.A. NO. F-174-501-771

TS/FILE NO. 1837C-X1

SHEET NO. 141 OF 156

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