FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TO SHE
3	MD.	SEE TITLE SHEET		

Intersection Operation

The existing phasing, cabinet and controller are to be utilized.

Construction Details

A. Use existing handhole.

B. Install 1 in. liquid tight, non–metallic conduit for loop detector sleeve.

C. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2–4–2 turns).

D. Install 6 ft. x 6 ft. vehicle loop detector (3 turns).

E. Use existing conduit.

F. Use existing strain pole.

G. Use existing span wire and install signs as shown.

H. Use existing span wire, relocate existing signal heads and sign. Install signs as shown.

J. Install 12 in. preformed white pavement marking for pedestrian crossing.

K. Use existing strain pole and install sign as shown.

L. Install 24 in. preformed white pavement marking for stop line.

M. Existing cabinet/controller are to be utilized.

N. Install 1 in. galvanized steel conduit for loop detector sleeve.

Equipment List "A"

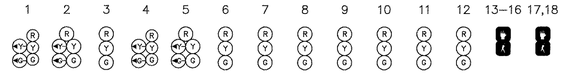
Equipment to be supplied by SHA.

Quantity	Unit	Description
34.3	SF	Sheet aluminum signing. [To consist of eight 16 in. x Var. D3–2 signs for span wire mounting, and one 30 in. x 51 in. shield assembly sign for pole mounting.]

Equipment List "B"

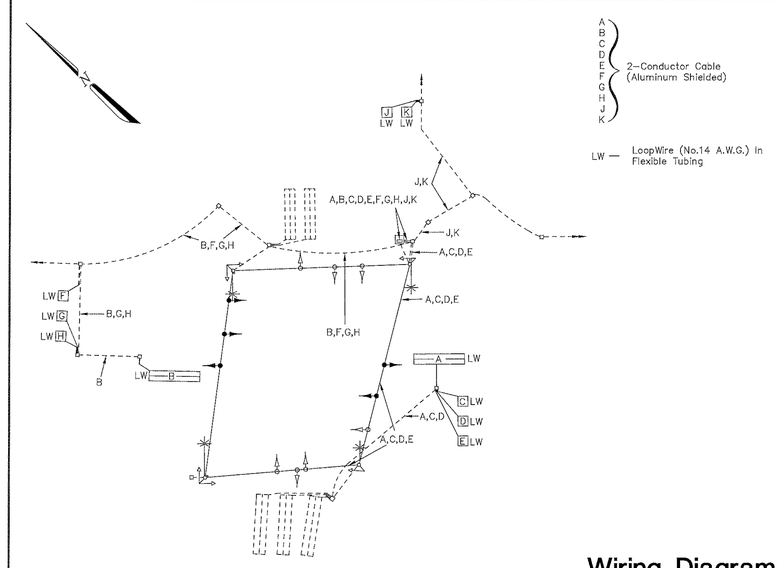
Equipment to be furnished and/or installed by the Contractor.

Quantity	Unit	Description
700	LF	12 in. preformed white pavement marking for pedestrian crossing.
100	LF	24 in. preformed white pavement marking for stop line.
575	LF	Sawcut for signal loop detector.
1575	LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
15	LF	1 in. galvanized steel conduit for loop detector sleeve.
75	LF	1 in. liquid tight, flexible, non–metallic conduit for loop detector sleeve.
3625	LF	2–conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
5	EA	Relocate existing traffic signal head – span wire mount.
21	SF	Relocate existing sheet aluminum signing – overhead mount.
74.7	SF	Install sheet aluminum signing – overhead mount.
19.6	SF	Install sheet aluminum signing – pole mount.



	1	2	3	4	5	6	7	8	9	10	11	12	13–16	17,18
Phase 1 & 5	R ←G—	R ←G—	R	R ←G—	R ←G—	R	R	R	R	R	R	R	DW	DW
1 & 5 Change To Phase 1 & 6 or Phase 2 & 5														
Phase 1 & 6	G ←G—	G ←G—	G	R	R	R	R	R	R	R	R	R	DW	DW
1 Change	G ←Y—	G ←Y—	G	R	R	R	R	R	R	R	R	R	DW	DW
Phase 2 & 5	R	R	R	G ←G—	G ←G—	G	R	R	R	R	R	R	DW	DW
5 Change	R	R	R	G ←Y—	G ←Y—	G	R	R	R	R	R	R	DW	DW
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	DW
Ped Clearance	G	G	G	G	G	G	R	R	R	R	R	R	FL\DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
Phase 4 & Alt. 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	WK
Ped Clearance	R	R	R	R	R	R	G	G	G	G	G	G	DW	FL\DW
4 & Alt. 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

Phase Chart



Wiring Diagram

Ultimate Traffic Control Signal

Sheet 37 of 5

Revision 'B'

A/E GROUP, INC.
CONSULTING ENGINEERS • PLANNERS
11409 CRONHILL DRIVE
OWINGS MILLS, MD. 21117
(410) 363–1908
A/E JOB NO: 94–264

REVISIONS
B November 6, 1995 Rebuild to new geometrics. S.H.A. No.: M 611–501–371

APPROVALS

CHIEF, SIGNAL DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL # 15035515.86

DRAWN BY: T. Zaydel
DES. BY: T. Zaydel
CHK. BY: D. Doda

MD 355 at Christopher Avenue/ IBM Entrance

COUNTY: MONTGOMERY

DATE: September 26, 1986
SCALE: 1" = 20'

F.A.P. NO. N/A
S.H.A. NO. BW–890–801–312

TS/STD. NO. **2230-B GI**

SHEET NO. ____ OF ____