

INTERSECTION OPERATION

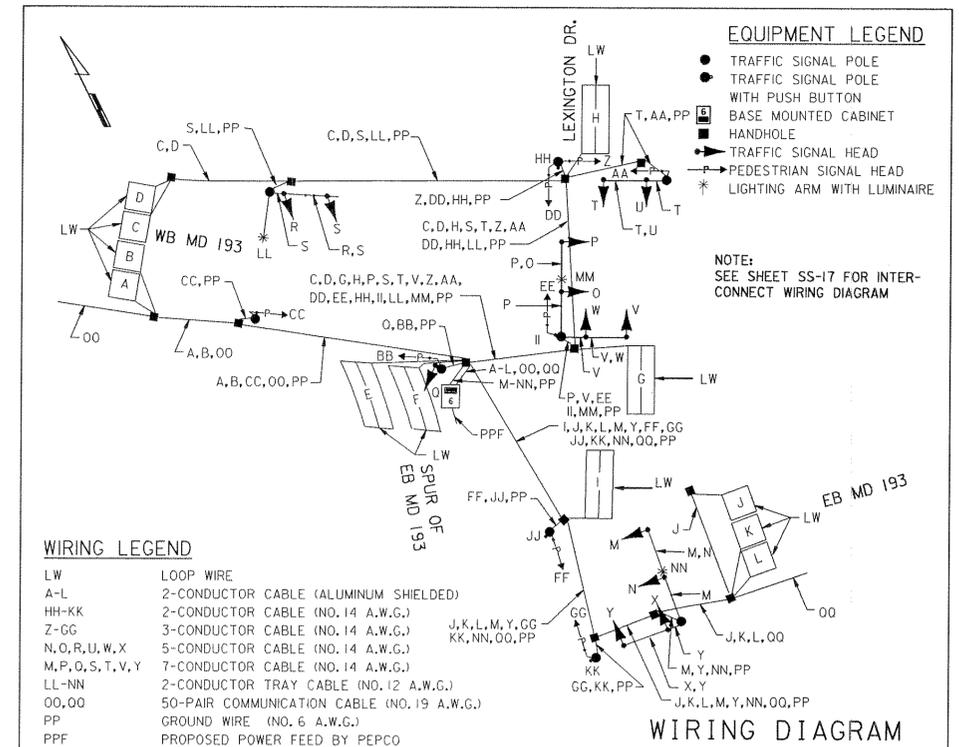
The intersection of Westbound MD 193, the Spur of Eastbound MD 193, and Lexington Drive will operate in a NEMA five-phase semi-traffic-actuated mode with the eastbound MD 193 operating with westbound MD 193 and pedestrians along MD 193 or with the Spur of eastbound MD 193 and pedestrian across Lexington Drive. Lexington Drive southbound and northbound traffic will operate concurrently with a pedestrian phase across the Spur and across MD 193. An alternate pedestrian phase 3 will be provided for crossing eastbound and westbound MD 193 and the Spur. Lexington Drive will have an overlap clearance phase for southbound traffic.

CONSTRUCTION DETAILS

- A. Install 27' steel pole for 30' and 40' mast arms (with 30' mast arm only), 20' lighting arm and luminaire, traffic signal heads and signs as shown. Install a flange plate instead of the 40' mast arm (DO NOT INSTALL 40' MAST ARM). The flange plate shall be faced toward MD 193. (NOTE: 2-3" PVC 90 degree angle conduit bends).
- B. Install 8' breakaway pedestal pole with pedestrian signal heads, push button, and sign as shown (NOTE: 1-2" PVC 90 degree angle conduit bend).
- C. Install 27' steel pole with 30' mast arm, traffic signal heads, pedestrian signal head, and sign as shown (NOTE: 2-3" PVC 90 degree angle conduit bends).
- D. Install 27' steel pole with 42' and 30' twin mast arms, 20' lighting arm and luminaire, traffic signal heads, pedestrian signal head and push button, and signs as shown (NOTE: 2-3" PVC 90 degree angle conduit bends).
- E. Install 27' steel pole with 30' and 40' twin mast arms, 20' lighting arm and luminaire, traffic signal heads, and signs as shown (NOTE: 2-3" PVC 90 degree angle conduit bends).
- F. Install 8' breakaway pedestal pole with pedestrian signal head, and push button as shown (NOTE: 1-2" PVC 90 degree angle conduit bend).
- G. Install 8' breakaway pedestal pole with pedestrian signal head, push button, and sign as shown (NOTE: 1-2" PVC 90 degree angle conduit bend).
- H. Install 10' breakaway pedestal pole with traffic signal head, pedestrian signal head and sign as shown (NOTE: 1-2" PVC 90 degree angle conduit bend).
- I. Install 8' breakaway pedestal pole with pedestrian signal head, and sign as shown (NOTE: 1-3" PVC 90 degree angle conduit bend).
- J. Install traffic signal controller with control and distribution equipment (see drawing B-16) in base-mounted, system-ready cabinet. (NOTE: 1-2" PVC 90 degree angle (schedule 80) conduit bend and 2-4" PVC 90 degree angle conduit bends).
- K. Install handhole.
- L. Install 1" electrical conduit detector wire sleeve.
- M. Install 2" schedule 40 electrical conduit-trenched/buried.
- N. Install 3" schedule 40 electrical conduit-trenched/buried.
- O. Install 4" schedule 40 electrical conduit-trenched/buried.
- P. Install 4" schedule 80 electrical conduit-slotted.
- Q. Install 3" schedule 40 electrical conduit-trenched/buried with 1" flexible PVC corrugated inner conduit (color=orange) with an inner pull string.
- R. Install 4" schedule 80 electrical conduit-slotted with 1" flexible PVC corrugated inner conduit (color=orange) with an inner pull string.
- S. Install 4" schedule 40 electrical conduit-trenched/buried with 1" flexible PVC corrugated inner conduit (color=orange) with an inner pull string.
- T. Install 6'x 30' loop detector, quadrupole type (2-4-2 turns).
- U. Install 6'x 6' loop detector (3 turns).
- V. Install ground mounted sign.

GENERAL NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. All utilities are shown in their approximate locations and are not to be considered as complete. The Contractor shall be responsible for contacting Miss Utility to verify the location of all utilities. The Contractor shall contact The Project Engineer prior to construction if there may be potential conflicts.
4. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with S.H.A. standards. All other pavement markings will be installed as part of the highway contract.
5. All luminaires must be full cut off.
6. "D.O." indicates delay output loop detector.
7. See Utility Plans for utility locations.
8. All loops must be installed in the base course paving, after milling is completed.
9. To start signal operation loop detectors on spur and Lexington Drive must be in place and operational.
10. All patching shall be done with type "B" pavement, as per roadway details.

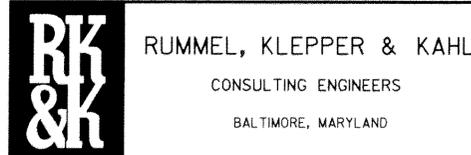


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 1 & 6	G	G	R	R	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW	DW	DW
PED. CLEAR.	G	G	R	R	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	G	G	R	R	Y	Y	Y	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED. CLEAR.	G	G	G	G	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	WK	WK	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	WK	WK	DW	DW	DW	DW
PED. CLEAR.	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	G	G	DW	DW	DW	DW	DW	DW
PHASE 3 ALT.	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	WK	WK	WK	WK	WK	WK
PED. CLEAR.	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW
3 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	G	G	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	G	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	G	G	G	R	R	R	R	R	Y	Y	DW						
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	DARK															

IF PHASE 3 IS SKIPPED 16 & 17 SHALL CLEAR UNDER PHASE 2 AND 14 & 15 REMAIN "WALK".  
PHASE 3 SHALL ALWAYS PLACE ONE TIME CALL TO PHASE 4.

PHASING CHART

SS-II



REVISIONS:	APPROVALS:	MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION	
	CHEF SIGNAL DESIGN SECTION	LOG MILE # 15019304.47	
	ASST. DISTRICT ENGINEER TRAFFIC	DRAWN BY: ZAJ	WB MD 193, SPUR OF EB MD 193 AND LEXINGTON DRIVE GENERAL INFORMATION
	CHEF TRAFFIC ENGINEERING DESIGN DIVISION	DES. BY: ZAJ	COUNTY: MONTGOMERY
	DIRECTOR OFFICE OF TRAFFIC & SAFETY	CHK. BY: [Signature]	DATE: SEPTEMBER, 1995 F.A.P. NO. _____ SCALE: None S.H.A. NO. M 425-502-370
			TS/STD. NO.: TS-3534-GI-I SHEET NO. _____ OF _____