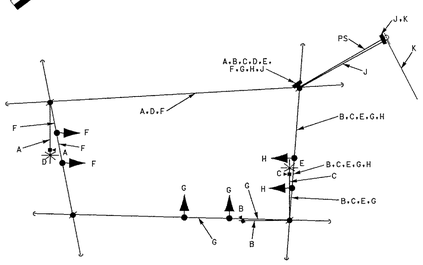
WIRING DIAGRAM FOR SIGNAL# 1 / PHASE 1



Wiring Key

- A, B, C } 3-Conductor (NO. 14 AWG) and coaxial electrical cables.
- D, E } 2-Conductor (NO. 12 AWG) electrical tray cable.
- F, G, H } 5-Cconductor (NO. 14 AWG) electrical cable.
- J – 6-pair interconnect cable.
- K – Existing 12-pair to be installed into splice cabinet.
- PS – Proposed overhead service to be installed by Pepco.

SEQUENCE OF OPERATION SHEET

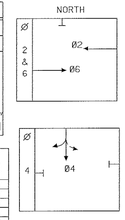
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

NO. _____

INTERSECTION: LAYHILL RD (MD 182) DETOUR AND RELOC. NORBECK RD.

	SIGNAL HEAD INDICATIONS					
SIGNAL NO.	1-6					
TOTAL:	6					
LEGEND (OPTICALLY LIMITED; R RED; Y YELLOW; G GREEN; ← ARROW; F FLASHING)	R Y G	R Y G	R Y G	R Y G	R Y G	9"or12"
	12"	12"	12"	8"	12"	

PHASING

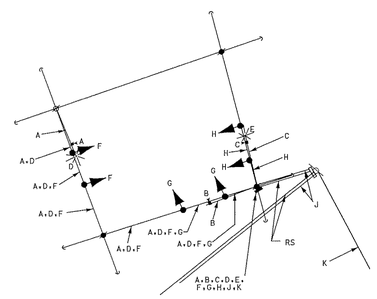


SIGNAL NO.	SEQUENCE OF OPERATION INTERVAL 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASHER
1	G	G	Y	R	R	R	R	R											Y
2	G	G	Y	R	R	R	R	R											Y
3	G	G	Y	R	R	R	R	R											Y
4	G	G	Y	R	R	R	R	R											Y
5	R	R	R	R	G	G	Y	R											R
6	R	R	R	R	G	G	Y	R											R
PHASE	2 & 6			ALL RED	4				ALL RED										

NOTES:
TEMPORARY SIGNAL # 1/ CONSTRUCTION PHASE 1.

SUBMITTED:_____ CHECKED:_____ APPROVED:_____
IN SERVICE BY:_____ DATE:_____ TIME:_____

WIRING DIAGRAM FOR SIGNAL # 2 / PHASE 2



Wiring Key

- A, B, C } 3-Conductor (NO. 14 AWG) and coaxial electrical cables
- D, E } 2-Conductor (NO. 12 AWG) electrical tray cable.
- F, G, H } 5-Cconductor (NO. 14 AWG) electrical cable.
- J – Relocate existing 6-pair interconnect cable.
- K – Existing 12- pair I/C cable.
- RS – Relocated existing service to be installed by Pepco.

SEQUENCE OF OPERATION SHEET

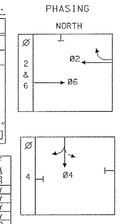
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

NO. _____

INTERSECTION: LAYHILL RD (MD 182) DETOUR AND RELOC. NORBECK RD.

	SIGNAL HEAD INDICATIONS					
SIGNAL NO.	1-6					
TOTAL:	6					
LEGEND (OPTICALLY LIMITED; R RED; Y YELLOW; G GREEN; ← ARROW; F FLASHING)	R Y G	R Y G	R Y G	R Y G	R Y G	9"or12"
	12"	12"	12"	8"	12"	

PHASING

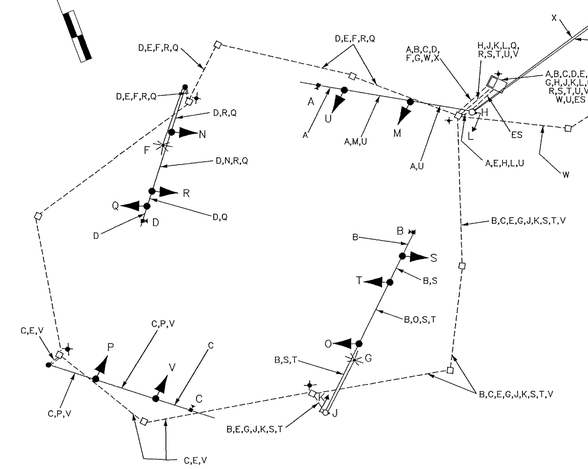


SIGNAL NO.	SEQUENCE OF OPERATION INTERVAL 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASHER
1	G	G	Y	R	R	R	R	R											Y
2	G	G	Y	R	R	R	R	R											Y
3	G	G	Y	R	R	R	R	R											Y
4	G	G	Y	R	R	R	R	R											Y
5	R	R	R	R	G	G	Y	R											R
6	R	R	R	R	G	G	Y	R											R
PHASE	2 & 6			ALL RED	4				ALL RED										

NOTES:
TEMPORARY SIGNAL # 2/ CONSTRUCTION PHASE 2.

SUBMITTED:_____ CHECKED:_____ APPROVED:_____
IN SERVICE BY:_____ DATE:_____ TIME:_____

WIRING DIAGRAM / ULTIMATE SIGNAL NORBECK RD. AND LAYHILL RD.



PROPOSED UNDERGROUND INTERCONNECT IN EXISTING CONDUIT EAST NORBECK RD.

Wiring Key

- A, U } Re-route existing cables
- B, C, D } 3-Conductor (NO. 14 AWG) and coaxial electrical cables.
- E – NO. 6 AWG stranded bare copper ground wire.
- F, G } 2-Conductor (NO. 12 AWG) electrical tray cable.
- H, J } 2-Conductor (NO. 14 AWG) electrical cable.
- K, L } 3-Conductor (NO. 14 AWG) electrical cable.
- M, N, O, P } 5-Conductor (NO. 14 AWG) electrical cable.
- Q, R, S, T, U, V } 7-Conductor (NO. 14 AWG) electrical cable.
- W – 12 Pair voice-grade communication cable (underground- jelly filled).
- X – Existing 12-pair interconnect cable to be maintained.
- ES – Existing electrical service to be maintained.
- Ground Rod

SEQUENCE OF OPERATION SHEET

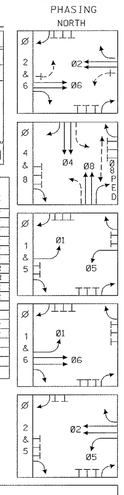
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

NO. _____

INTERSECTION: NORBECK ROAD (MD 28) AND LAYHILL ROAD (MD 182)

	SIGNAL HEAD INDICATIONS					
SIGNAL NO.	3,6,7, 8,9,10		1,2,4,5			11,12
TOTAL:	6		4			2
LEGEND (OPTICALLY LIMITED; R RED; Y YELLOW; G GREEN; ← ARROW; F FLASHING)	R Y G	←R ←Y ←G	R Y G	R Y G	R Y G	9"or12" X
	12"	12"	12"	8"	12"	

PHASING

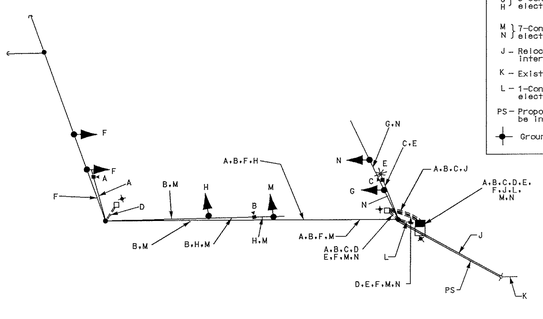


SIGNAL NO.	SEQUENCE OF OPERATION INTERVAL 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASHER
1	G	G	Y	R	R	R	R	R	R	←G*	←Y*	R	←G*	←Y*	G	R	R	R	Y
2	G	G	Y	R	R	R	R	R	R	←G*	←Y*	R	←G*	←Y*	G	R	R	R	Y
3	G	G	Y	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	Y
4	G	G	Y	R	R	R	R	R	R	←G*	←Y*	R	R	R	R	←G*	←Y*	G	Y
5	G	G	Y	R	R	R	R	R	R	←G*	←Y*	R	R	R	R	←G*	←Y*	G	Y
6	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y
7	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
8	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
9	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
10	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
11	DW	DW	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	–
12	DW	DW	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	–
PHASE	2 & 6			ALL RED	4 & 8				ALL RED	1 & 5			ALL RED	1 & 6			ALL RED	2 & 5	ALL RED

NOTES:

SUBMITTED:_____ CHECKED:_____ APPROVED:_____
IN SERVICE BY:_____ DATE:_____ TIME:_____

WIRING DIAGRAM FOR SIGNAL # 3 / PHASE 3



Wiring Key

- A, B, C } 3-Conductor (NO. 14 AWG) and coaxial electrical cables.
- D – NO. 6 AWG stranded bare copper ground wire.
- E – 2-Conductor (NO. 12 AWG) electrical tray cable.
- F, G, H } 5-Conductor (NO. 14 AWG) electrical cable.
- M, N } 7-Conductor (NO. 14 AWG) electrical cable.
- J – Relocate existing 12-pair interconnect cable.
- K – Existing 12- pair I/C cable.
- L – 1-Conductor (NO. 4 AWG) electrical cable THHN/THWN.
- PS – Proposed electrical service to be installed by Pepco.
- Ground Rod

SEQUENCE OF OPERATION SHEET

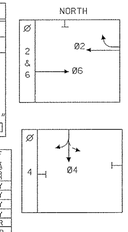
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

NO. _____

INTERSECTION: LAYHILL RD (MD 182) DETOUR AND RELOC. NORBECK RD.

	SIGNAL HEAD INDICATIONS					
SIGNAL NO.	1-6					
TOTAL:	6					
LEGEND (OPTICALLY LIMITED; R RED; Y YELLOW; G GREEN; ← ARROW; F FLASHING)	R Y G	R Y G	R Y G	R Y G	R Y G	9"or12"
	12"	12"	12"	8"	12"	

PHASING



SIGNAL NO.	SEQUENCE OF OPERATION INTERVAL 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASHER
1	G	G	Y	R	R	R	R	R											Y
2	G	G	Y	R	R	R	R	R											Y
3	G	G	Y	R	R	R	R	R											Y
4	G	G	Y	R	R	R	R	R											Y
5	R	R	R	R	G	G	Y	R											R
6	R	R	R	R	G	G	Y	R											R
PHASE	2 & 6			ALL RED	4				ALL RED										

NOTES:
TEMPORARY SIGNAL # 3/ CONSTRUCTION PHASE 3/ STAGE 1&2.

SUBMITTED:_____ CHECKED:_____ APPROVED:_____
IN SERVICE BY:_____ DATE:_____ TIME:_____

GENERAL INFORMATION SHEET 2

STREET TRAFFIC STUDIES, LTD.®
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

3539AGI182.DGN

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 28 /NORBECK ROAD AND
MD 182 (LAYHILL ROAD)

DRAWN BY: MILESKY	COUNTY: MONTGOMERY	TS NO. GI-1	SHEET NO. 5 OF 6
CHECK BY: RRZ	LOG MILE: 15018204.31		
DATE: 09/1/00	F.A.P. NO.	T.I.M.S. NO. XX	
SCALE: N\A	S.H.A. NO. XX1XXX		

SEP 01 2000