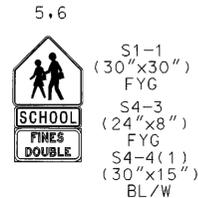


MD 45 IS ASSUMED TO RUN  
IN A NORTH / SOUTH DIRECTION

**CONSTRUCTION DETAILS**

- A. INSTALL CONCRETE FOUNDATION WITH A 14' STEEL PEDESTAL POLE; BREAKAWAY BASE, SIGNAL HEADS, CONCRETE COURTESY PAD, AND SIGN. (NOTE: 1-3" PVC CONDUIT BEND), STA. 130+50 RT. 38' AND 139+50 31' LT.
- B. INSTALL 3" SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED
- C. INSTALL 3" SCHEDULE 80, PVC ELECTRICAL CONDUIT - SLOTTED.
- D. INSTALL OVERHEAD 5 CONDUCTOR ELECTRICAL CABLE TO SELF-SUPPORTING INTERCONNECT CABLE.
- E. INSTALL 3" SCHEDULE 80 PVC CONDUIT RISER.
- F. REMOVE EXISTING SIGNS, SIGNALS, POLE, AND FOUNDATION AND BACKFILL 12" BELOW GRADE.
- G. REMOVE EXISTING POLE MOUNT CABINET.
- H. DISCONNECT EXISTING POWER SOURCE (BY BGE).
- J. INSTALL HANDHOLE.
- K. USE EXISTING CONDUIT.
- L. USE EXISTING CABINET.
- M. ATTACH ELECTRICAL CABLE TO UTILITY POLE. USE THE SAME BOLT HOLES AND SIDE OF POLE AS EXISTING INTERCONNECT CABLE.
- N. USE EXISTING CONDUIT RISER ON BGE UTILITY POLE.

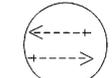
**PROPOSED SIGNS**



**PROPOSED SIGNALS**

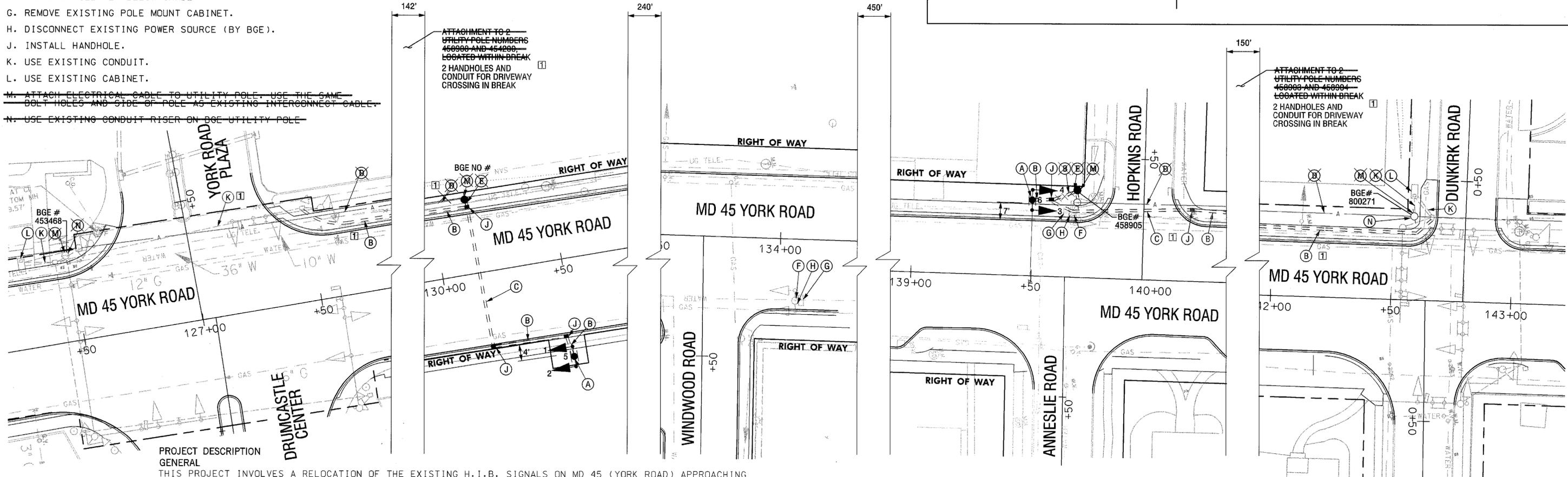
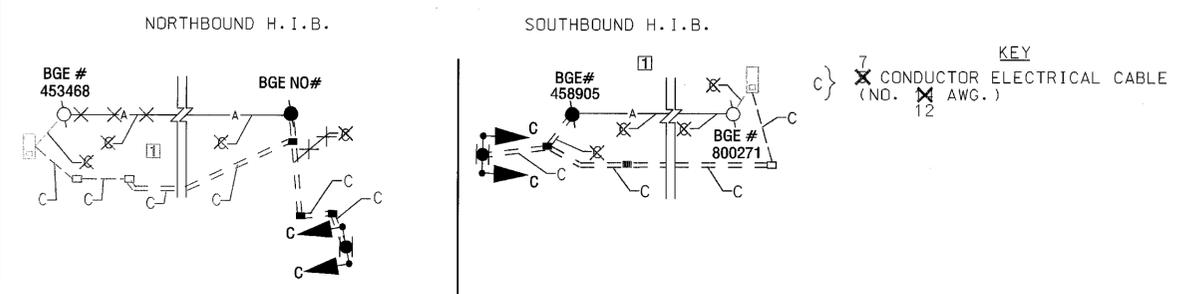


**HIB-FLASHING OPERATION**



(TIME OF DAY - PROGRAMMED BY SCHOOL)

**WIRING DIAGRAM**

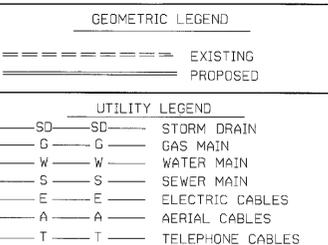


**PROJECT DESCRIPTION GENERAL**  
THIS PROJECT INVOLVES A RELOCATION OF THE EXISTING H.I.B. SIGNALS ON MD 45 (YORK ROAD) APPROACHING THE ST. PIUS X SCHOOL IN BALTIMORE COUNTY. THE NORTHBOUND HIB (STA. 130+50) WILL BE POWERED FROM, AND CONTROLLED BY THE SIGNAL AT MD 45 AND YORK ROAD PLAZA/DRUMCASTLE CENTER. THE SOUTHBOUND HIB (STA. 139+50) WILL BE POWERED FROM, AND CONTROLLED BY THE SIGNAL AT MD 45 AND DUNKIRK ROAD.

CATEGORY	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: S1-1 (30"x36") S4-3 (24"x8") S4-4(1) (30"x15")	SF EA EA EA	24 2 2 2
<b>B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.</b>			
CATEGORY	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	2
801607	INSTALL SHEET ALUMINUM SIGN	SF	24
805032	3 INCH U GUARD PVC RISER	LF	60
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	79 520
805150	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED	LF	79 130
818010	14 FOOT BREAKAWAY PEDESTAL POLE	EA	2
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	4
871201	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	2
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
800000	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) LASHED TO INTERCONNECT CABLE	LF	750
864467	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	160
811011	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	9
800000	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 12 AWG)	LF	800

**C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.**  
SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

- GENERAL NOTES**
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
  - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
  - THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.



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Redline Revision No. 1 / 2004

REVISIONS	APPROVALS

APPROVED: *[Signature]* 3/10/04  
TRAFFIC ENGINEERING DESIGN DIVISION  
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

APPROVED: *[Signature]* 3/10/04  
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNAL PLAN  
MD 45 (YORK ROAD) H.I.B.  
AT ST. PIUS X SCHOOL

DRAWN BY: S.SMITH	F.A.P. NO. BA3125184	TS NO.	SHEET NO.
CHECKED BY:	S.H.A. NO. BALTIMORE	T.I.M.S. NO. D963	OF
SCALE: 1"=20'	COUNTY: BALTIMORE	LOG MILE: 0304500.34	
DATE:			

FILE: P:\00-471\Task 18\dwg\0963.dwg