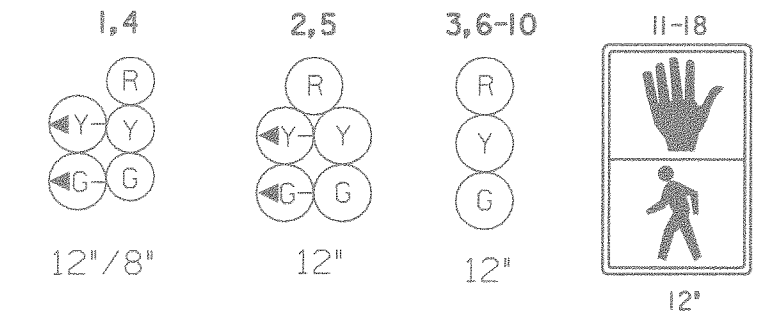


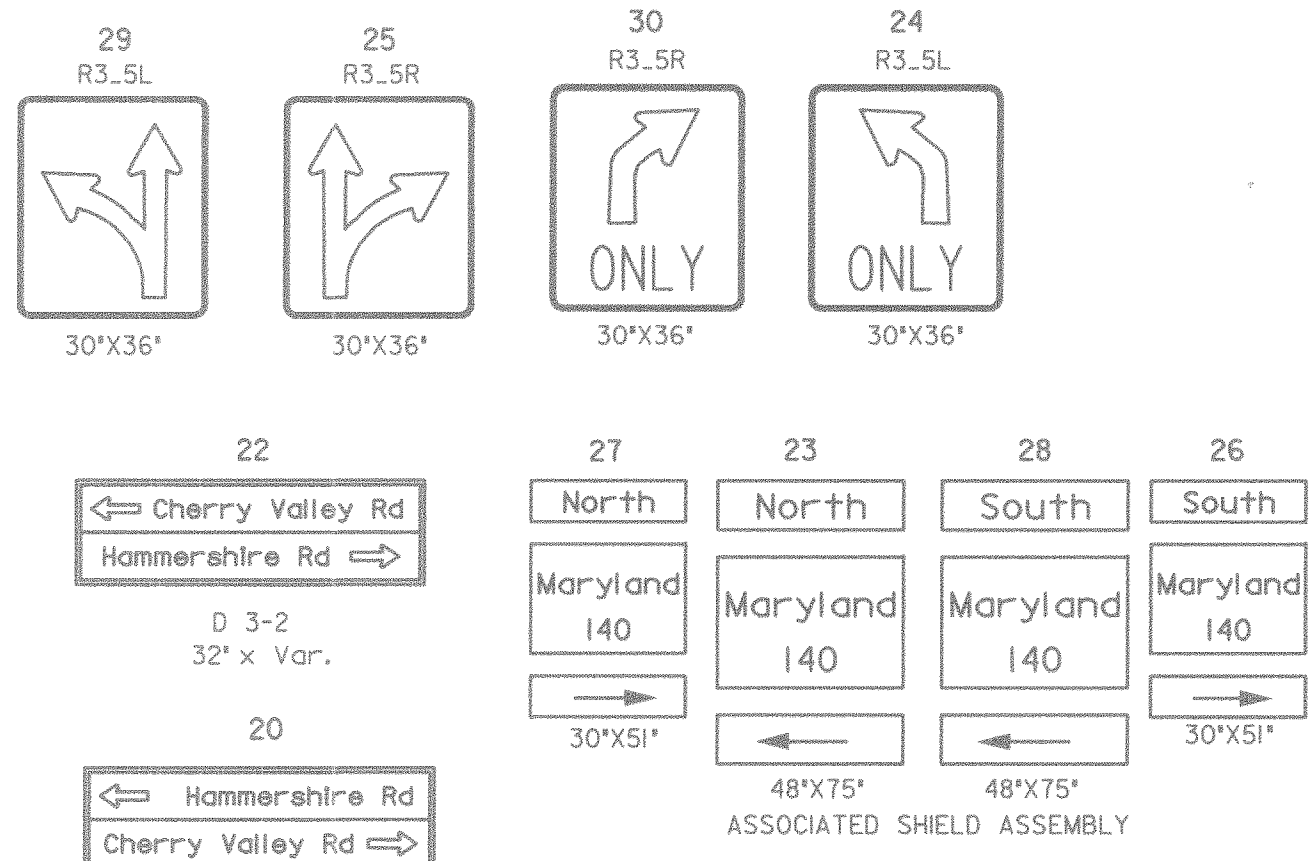
DATE: 01.31.94 BY: JES. MDOT PROJECT NO. 10D-108.08A.5

F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD		1	2

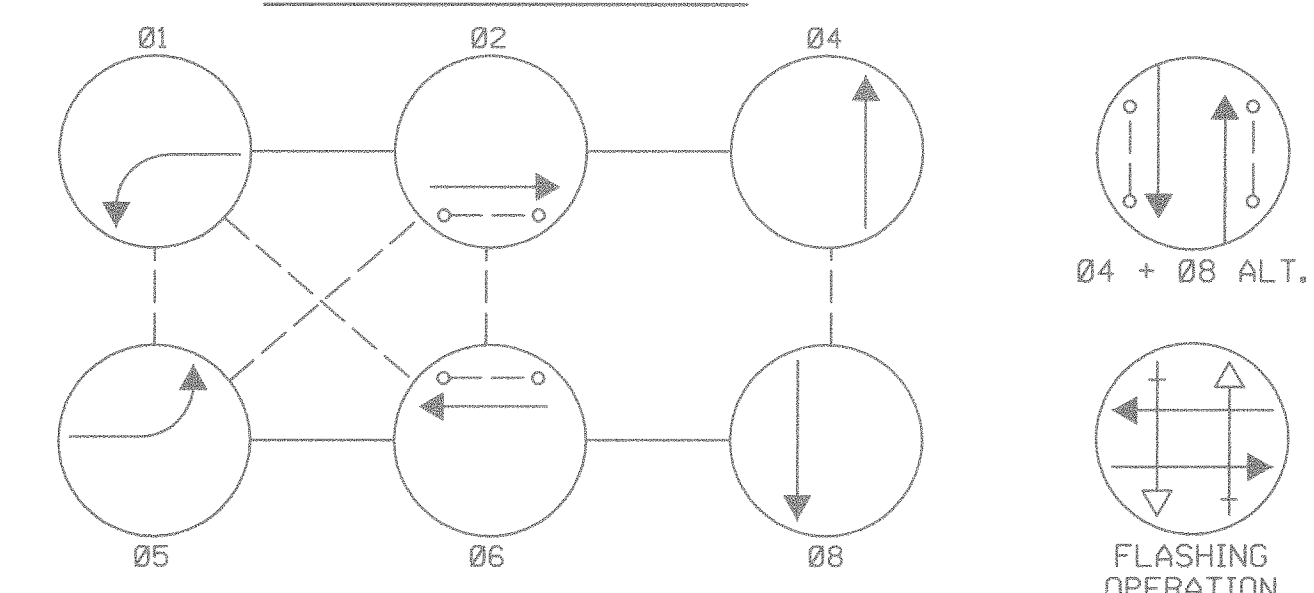
**SIGNALS**



**SIGNS**



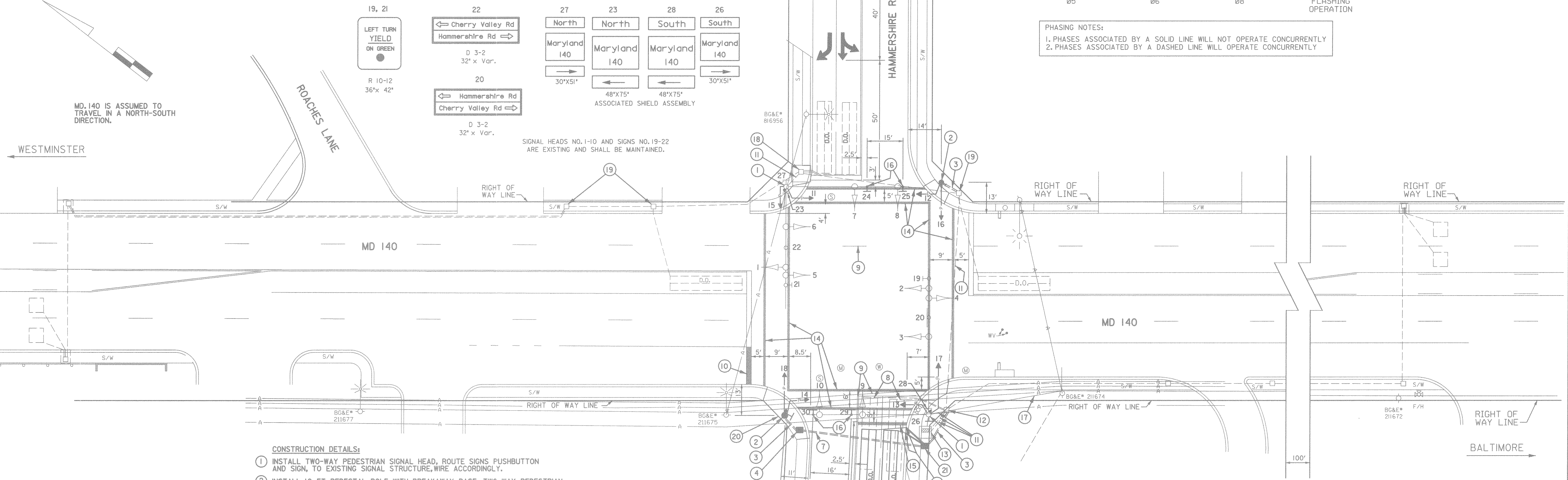
**NEMA PHASING**



**PHASING NOTES:**  
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY  
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

MD 140 IS ASSUMED TO TRAVEL IN A NORTH-SOUTH DIRECTION.

WESTMINSTER



**CONSTRUCTION DETAILS:**

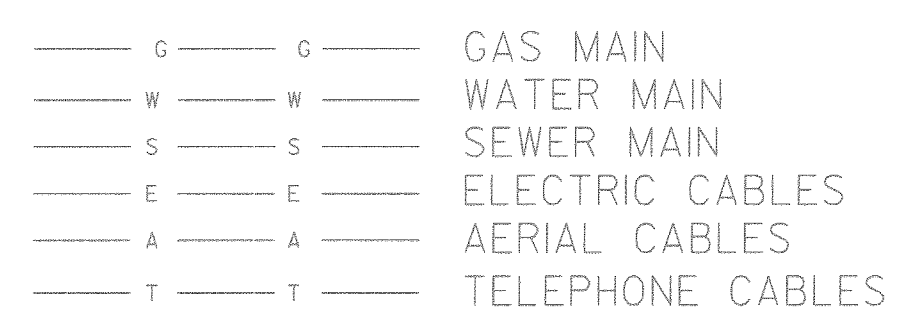
1. INSTALL TWO-WAY PEDESTRIAN SIGNAL HEAD, ROUTE SIGNS PUSHBUTTON AND SIGN, TO EXISTING SIGNAL STRUCTURE, WIRE ACCORDINGLY.
2. INSTALL 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE, TWO-WAY PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND SIGN (2" 90° PVC BEND).
3. INSTALL 2" ELECTRICAL CONDUIT PVC - SCHEDULE 80 - TRENCHED.
4. INSTALL ELECTRICAL HANDHOLE AND GROUND ROD.
5. INSTALL 6'X30' QUADRUPLE (3-6-3 TURNS) LOOP DETECTOR.
6. INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE.
7. INSTALL 2" ELECTRICAL CONDUIT PVC - SCHEDULE 80 - BORED.
8. DISCONNECT EXISTING LOOP DETECTORS.
9. REMOVE EXISTING PAVEMENT MARKINGS.
10. REMOVE WORN STOP LINE AND INSTALL 24" PAVEMENT MARKINGS.
11. USE EXISTING CONDUIT - BLOW OPEN IF REQUIRED.
12. USE EXISTING HANDHOLE - CLEAN OUT OLD PIPES, MUD, REBUILD WALLS, REPLACE LID AND COVER.
13. USE EXISTING CONTROLLER, BRING NEW CABLE INTO CABINET AND LABEL. THE ADMINISTRATION WILL DO THE INTERNAL WIRING.
14. INSTALL 12" PAVEMENT MARKINGS FOR CROSSWALKS AS INDICATED.
15. INSTALL 24" PAVEMENT MARKINGS FOR STOP LINE AS INDICATED.
16. INSTALL SIGN TO EXISTING MAST ARM.
17. MAINTAIN EXISTING POWER FEED.
18. REBUILD WALLS AND REPLACE LID AND FRAME OF EXISTING HANDHOLE AND CLEAN OLD PIPE AND MUD.
19. REPLACE LID AND FRAME OF EXISTING HANDHOLE.
20. REMOVE EXISTING SIDEWALK, REMOVE PATCHED FOUNDATION 12" BELOW GRADE. INSTALL PEDESTAL POLE, 2" TRENCHED CONDUIT, AND HANDHOLE PRIOR TO THE INSTALLATION OF NEW SIDEWALK (MATCH EXISTING 3 SECTIONS AND BRING UP TO CURB GRADE).
21. INSTALL ELECTRICAL HANDHOLE.

**NOTES:**

1. "D.O." INDICATES DELAY OUTPUT DETECTOR.
2. REVISION 'C' IS A REVISION TO THE TRAFFIC SIGNAL BUILT IN JAN., 1995 UNDER S.H.A. CONTRACT NO. B-156-501-485.
3. ALL UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION AND ARE NOT TO BE CONSIDERED AS COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS UTILITY TO VERIFY THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PERSONNEL PRIOR TO CONSTRUCTION IF THERE MAY BE POTENTIAL UTILITY CONFLICTS SO THAT FIELD ADJUSTMENTS CAN BE MADE.
4. PAVEMENT MARKINGS SHALL BE INSTALLED AFTER THE OLD PAVEMENT MARKINGS ARE REMOVED AND NEW DETECTORS ARE INSTALLED.
5. LOOP DETECTORS SHALL BE INSTALLED 18" TO 24" BEHIND THE STOP LINE.
6. PEDESTAL POLE AND HANDHOLE SHALL BE INSTALLED PRIOR TO THE FINISHED SIDEWALK AND RAMP.

THIS DATA WAS PREPARED BY PHOENIX ENGINEERING, INC. SOLELY FOR THE ABOVE REFERENCED PROJECT. IT IS NOT INTENDED OR AUTHORIZED FOR ANY OTHER USE, AND P.E.I. MAKES NO REPRESENTATION AS TO ITS SUITABILITY FOR ANY OTHER USE, PROVIDES THIS DATA WITH NO WARRANTY, EXPRESS OR IMPLIED AS TO THE ACCURACY, RELIABILITY, SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**UTILITY LEGEND**



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REVISIONS		APPROVALS	
		ORIGINAL	
		ON	
		FILE	
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
		DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

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

DRAWN BY: \_\_\_\_\_  
 DES. BY: \_\_\_\_\_  
 CHK. BY: **M. RUCKER 11-15-94**

DATE: **11-94** F.A.P. NO. **N/A** TS/STD. NO. **TS-664C**  
 SCALE: **1" = 20'** S.H.A. NO. **N/A**

**MD 140 AT CHERRY VALLEY ROAD/  
 HAMMERSHIRE ROAD**  
 SIGNAL NO.: 03014007.61 COUNTY: BALTO.

SHEET NO. **1** OF **2**