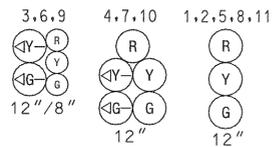


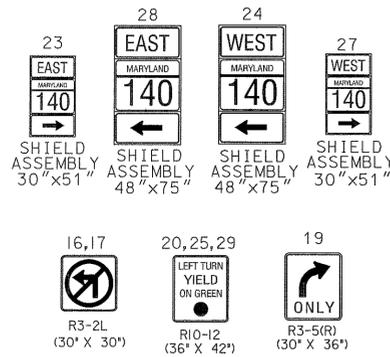
PROPOSED SIGNALS



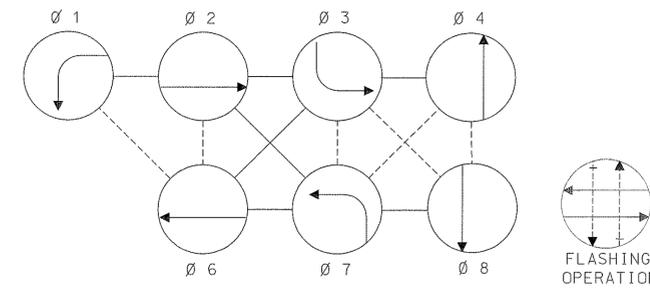
EXISTING SIGN (TO REMAIN)



PROPOSED SIGNS



NEMA PHASING

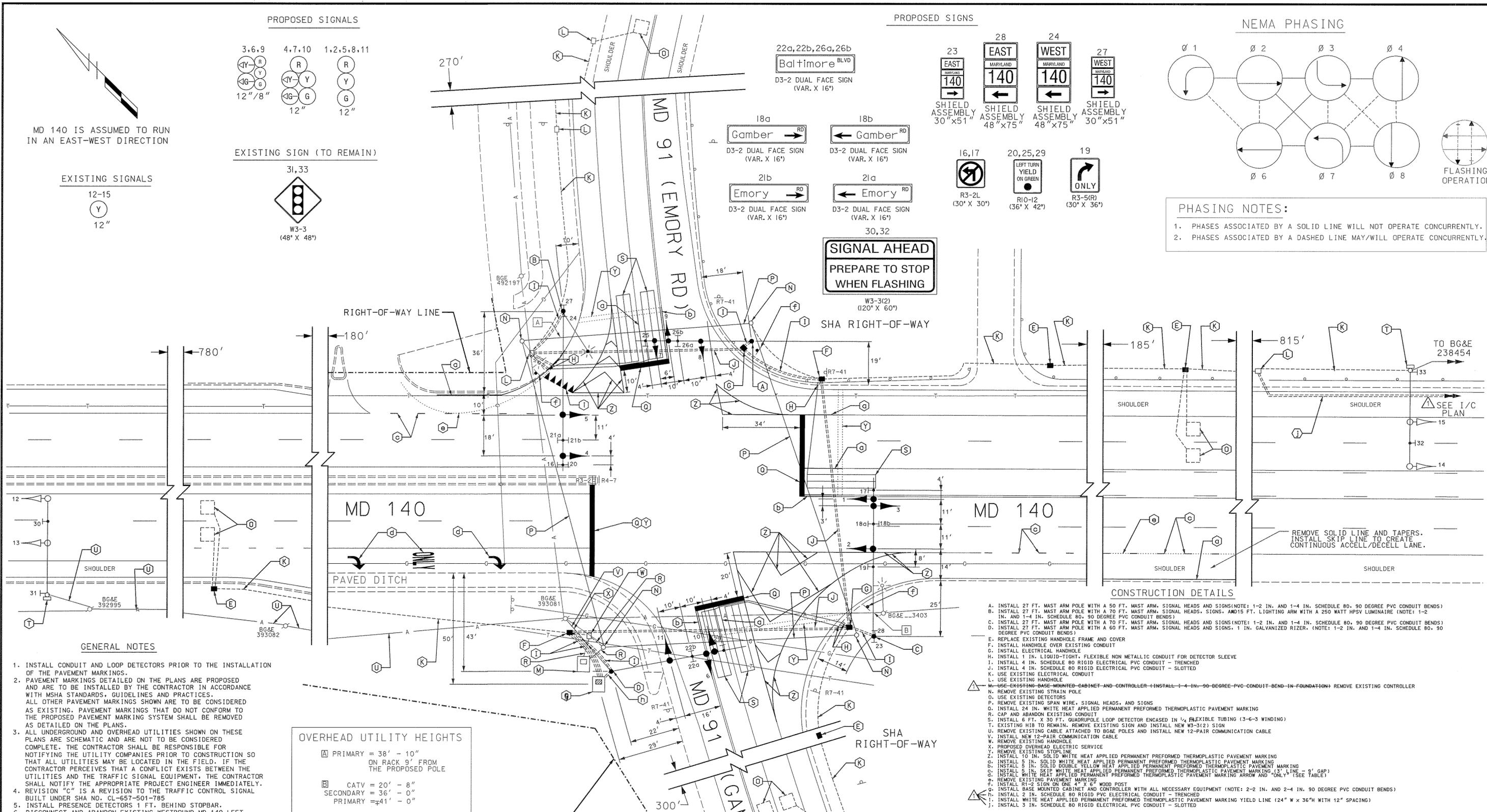


PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

MD 140 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNALS



GENERAL NOTES

- INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.
- PAVEMENT MARKINGS DETAILED ON THE PLANS ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MSHA STANDARDS, GUIDELINES AND PRACTICES. ALL OTHER PAVEMENT MARKINGS SHOWN ARE TO BE CONSIDERED AS EXISTING. PAVEMENT MARKINGS THAT DO NOT CONFORM TO THE PROPOSED PAVEMENT MARKING SYSTEM SHALL BE REMOVED AS DETAILED ON THE PLANS.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT EXISTS BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY. REVISION "C" IS A REVISION TO THE TRAFFIC CONTROL SIGNAL BUILT UNDER SHA NO. CL-657-501-785.
- INSTALL PRESENCE DETECTORS 1 FT. BEHIND STOPBAR.
- DISCONNECT AND ABANDON EXISTING WESTBOUND MD 140 LEFT TURN DETECTOR, NORTHBOUND MD 91 PRESENCE DETECTORS AND SOUTHBOUND MD 91 PRESENCE DETECTORS.

OVERHEAD UTILITY HEIGHTS

PRIMARY	= 38' - 10"	ON RACK 9' FROM THE PROPOSED POLE
CATV	= 20' - 8"	
SECONDARY	= 36' - 0"	
PRIMARY	= 41' - 0"	

RIGHT-OF-WAY LINE

LANE DROP PAVEMENT MARKING LOCATION TABLE

TRAFFIC CONTROL DEVICE	DISTANCE FROM STOPLINE
RIGHT ARROW	50'
ONLY	90'
RIGHT ARROW	130'

CONSTRUCTION DETAILS

- INSTALL 27 FT. MAST ARM POLE WITH A 50 FT. MAST ARM, SIGNAL HEADS AND SIGNS (NOTES: 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL 27 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, AND 15 FT. LIGHTING ARM WITH A 250 WATT HPSV LUMINAIRE (NOTE: 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL 27 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS AND SIGNS (NOTES: 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL 27 FT. MAST ARM POLE WITH A 60 FT. MAST ARM, SIGNAL HEADS AND SIGNS, 1 IN. GALVANIZED RISER. (NOTE: 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- REPLACE EXISTING HANDHOLE FRAME AND COVER
- INSTALL HANDHOLE OVER EXISTING CONDUIT
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE NON METALLIC CONDUIT FOR DETECTOR SLEEVE
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
- USE EXISTING ELECTRICAL CONDUIT
- USE EXISTING HANDHOLE
- USE EXISTING STRAIN POLE
- REMOVE EXISTING STRAIN POLE
- USE EXISTING DETECTORS
- REMOVE EXISTING SPAN WIRE, SIGNAL HEADS, AND SIGNS
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL 6 FT. X 30 FT. QUADRUPOLE LOOP DETECTOR ENCASED IN 1/2" FLEXIBLE TUBING (3-6" WINDING)
- EXISTING HIB TO REMAIN. REMOVE EXISTING SIGN AND INSTALL NEW W3-3(2) SIGN
- REMOVE EXISTING CABLE ATTACHED TO BG&E POLES AND INSTALL NEW 12-PAIR COMMUNICATION CABLE
- INSTALL NEW 12-PAIR COMMUNICATION CABLE
- REMOVE EXISTING HANDHOLE
- PROPOSED OVERHEAD ELECTRIC SERVICE
- REMOVE EXISTING STOPLINE
- INSTALL 10 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 5 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 3 IN. SOLID DOUBLE YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 5 IN. SEIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (3' LINE - 9' GAP)
- INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW AND "ONLY" (SEE TABLE)
- REMOVE EXISTING PAVEMENT MARKING
- INSTALL SIGN ON ONE 4" X 6" WOOD POST
- INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE PVC CONDUIT BENDS)
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING YIELD LINE (24" W X 36" H WITH 12" SPACING)
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

**TRAFFIC CONCEPTS, INC.**  
 325 Gambrills Road  
 Suite E  
 Gambrills, MD 21054  
 (410) 923-7101

REVISIONS	APPROVALS
6-21-01 SHA. NO. XX1005785 RED LINE REVISION	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
5-11-01 SHA. NO. XX1005785 RECONSTRUCT TRAFFIC SIGNAL	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
5/93 INSTALL E/WP LEFT TURN PHASE MD 91 & MODIFY H.I.B.'S	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
9-16-82 DELETE ONE STREET LIGHT ARM AND LUMINAIRE. INSTALL BACKLUG & LIGHT-WEIGHT SIGNALS 3 & 4	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 SIGNALIZATION PLAN  
 MD 140 AND MD 91

DRAWN BY: BRUCE THOMPSON JG	F.A.P. NO. CL-657-501-785	TS NO. 1667 C
CHECKED BY: DIMITRIOS ZAFIRIS	S.H.A. NO. CARROLL	T.I.M.S. NO. E620
DATE: 12-11-91	LOG MILE:	SHEET NO. 1 OF 2