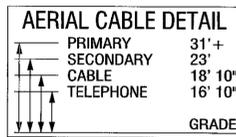
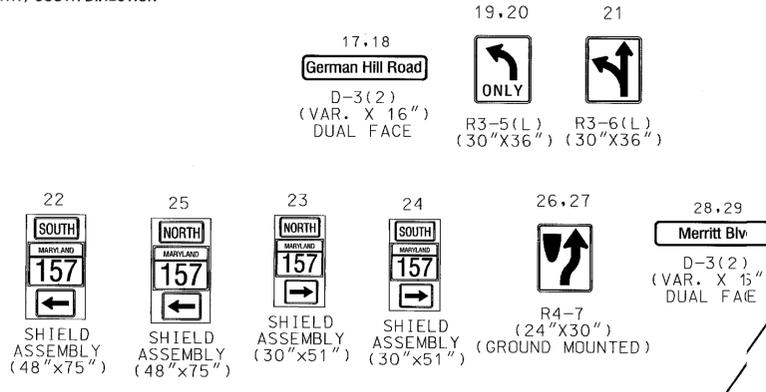


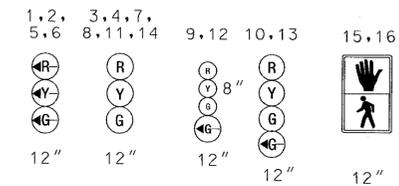


MD 157 IS ASSUMED TO RUN IN A NORTH / SOUTH DIRECTION

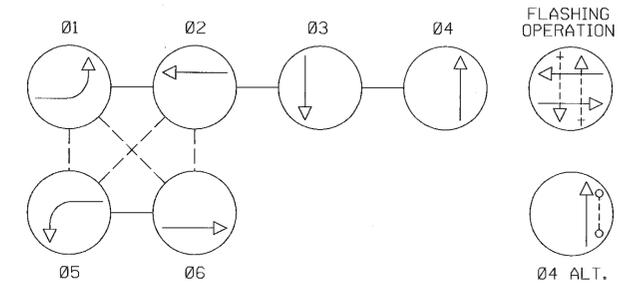
PROPOSED SIGNS



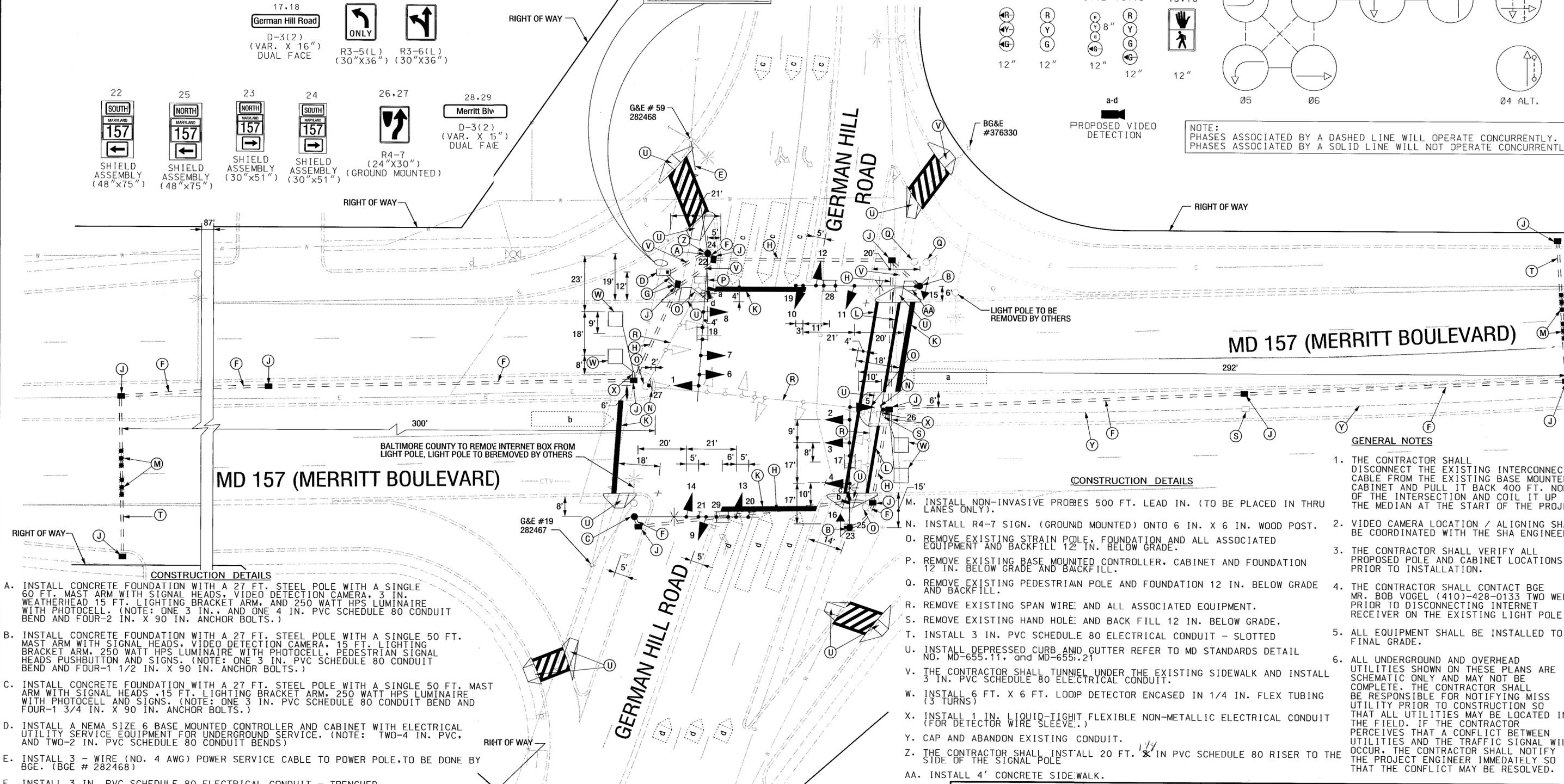
PROPOSED SIGNALS



NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



MD 157 (MERRITT BOULEVARD)

MD 157 (MERRITT BOULEVARD)

GERMAN HILL ROAD

CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 60 FT. MAST ARM WITH SIGNAL HEADS, VIDEO DETECTION CAMERA, 3 IN. WEATHERHEAD 15 FT. LIGHTING BRACKET ARM, AND 250 WATT HPS LUMINAIRE WITH PHOTOCELL. (NOTE: ONE 3 IN. AND ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-2 IN. X 90 IN. ANCHOR BOLTS.)
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM WITH SIGNAL HEADS, VIDEO DETECTION CAMERA, 15 FT. LIGHTING BRACKET ARM, 250 WATT HPS LUMINAIRE WITH PHOTOCELL, PEDESTRIAN SIGNAL HEADS PUSHBUTTON AND SIGNS. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-1 1/2 IN. X 90 IN. ANCHOR BOLTS.)
- C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM WITH SIGNAL HEADS, 15 FT. LIGHTING BRACKET ARM, 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND SIGNS. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-1 3/4 IN. X 90 IN. ANCHOR BOLTS.)
- D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS)
- E. INSTALL 3 - WIRE (NO. 4 AWG) POWER SERVICE CABLE TO POWER POLE, TO BE DONE BY BGE. (BGE # 282468)
- F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- J. INSTALL HANDHOLE.
- K. INSTALL 24 IN. WHITE, HEAT APPLIED, REFLECTIVE THERMOPLASTIC PAVEMENT MARKING TAPE FOR STOP LINE.
- L. INSTALL 12 IN. WHITE, HEAT APPLIED, REFLECTIVE THERMOPLASTIC PAVEMENT MARKING TAPE FOR CROSSWALK.

CONSTRUCTION DETAILS

- M. INSTALL NON-INVASIVE PROBES 500 FT. LEAD IN. (TO BE PLACED IN THRU LANES ONLY).
- N. INSTALL R4-7 SIGN. (GROUND MOUNTED) ONTO 6 IN. X 6 IN. WOOD POST.
- O. REMOVE EXISTING STRAIN POLE, FOUNDATION AND ALL ASSOCIATED EQUIPMENT AND BACKFILL 12 IN. BELOW GRADE.
- P. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- Q. REMOVE EXISTING PEDESTRIAN POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- R. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
- S. REMOVE EXISTING HAND HOLE AND BACK FILL 12 IN. BELOW GRADE.
- T. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED
- U. INSTALL DEPRESSED CURB AND GUTTER REFER TO MD STANDARDS DETAIL NO. MD-655.11, and MD-655.21
- V. THE CONTRACTOR SHALL TUNNEL UNDER THE EXISTING SIDEWALK AND INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT.
- W. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEX TUBING (3 TURNS)
- X. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR WIRE SLEEVE.)
- Y. CAP AND ABANDON EXISTING CONDUIT.
- Z. THE CONTRACTOR SHALL INSTALL 20 FT. 2 IN PVC SCHEDULE 80 RISER TO THE SIDE OF THE SIGNAL POLE
- AA. INSTALL 4' CONCRETE SIDEWALK.

GENERAL NOTES

1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING INTERCONNECT CABLE FROM THE EXISTING BASE MOUNTED CABINET AND PULL IT BACK 400 FT. NORTH OF THE INTERSECTION AND COIL IT UP IN THE MEDIAN AT THE START OF THE PROJECT.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL CONTACT BGE MR. BOB VOGEL (410)-428-0133 TWO WEEKS PRIOR TO DISCONNECTING INTERNET RECEIVER ON THE EXISTING LIGHT POLE.
5. ALL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
6. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

GEOMETRIC LEGEND	
---	PROPOSED
---	EXISTING
UTILITY LEGEND	
SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
C-T	CABLE TV

SABRA, WANG & ASSOCIATES, INC.
 1504 JOH AVENUE
 SUITE 160
 BALTIMORE, MD 21227
 WWW.SABRA-WANG.COM

REVISIONS	APPROVALS
B. ADDED SAMPLE STATION 07/08/76	
CHANGE SIGNAL LENSES, ADD SIGNS 05/04/84	
ADD PEDESTRIAN SIGNALS ON NORTH LEG 03/14/90	
SIGNAL MODIFICATION RECONSTRUCTION 09/02	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 TRAFFIC SIGNAL PLAN
MD 157 (MERRITT BOULEVARD) AT GERMAN HILL ROAD

DRAWN BY: W.R.S.	F.A.P. NO.	TS. NO.	SHEET NO.
CHECKED BY: C.P.M.	S.H.A. NO.	4602 E	
SCALE: 1" = 20'	COUNTY: BALTIMORE	T.J.M.S. NO.	
DATE: 7/16/1973	LOG MILE: 0315704.26	F270	OF

R:\00-477\TASK 36\DWG\F270G01.DWG