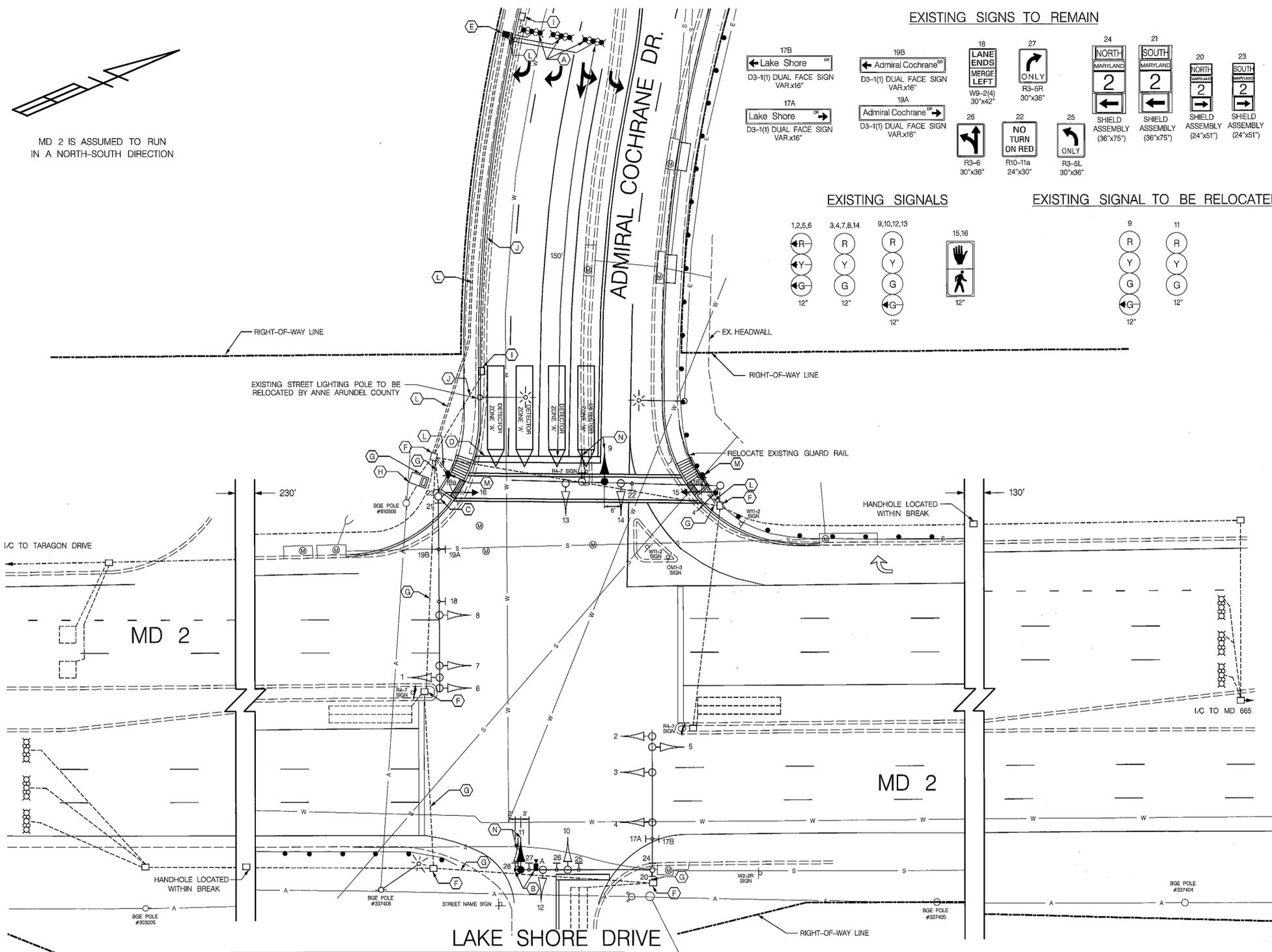


MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

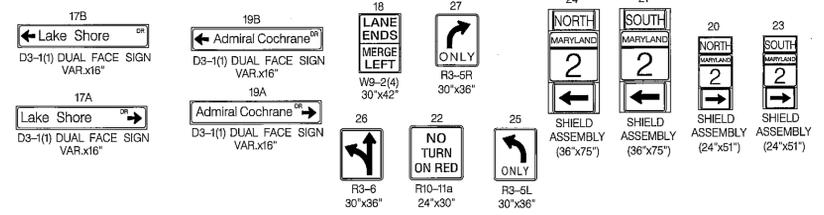
DRILL HOLES

DRILL HOLES

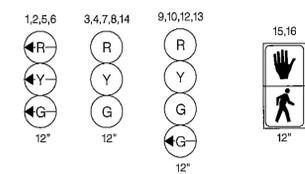
DRILL HOLES



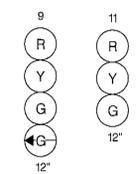
EXISTING SIGNS TO REMAIN



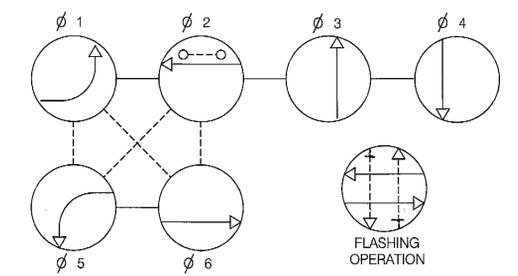
EXISTING SIGNALS



EXISTING SIGNAL TO BE RELOCATED



NEMA PHASING



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

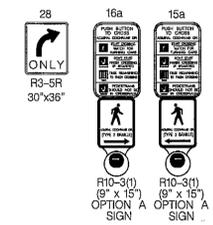
PROPOSED VIDEO DETECTION CAMERA



PROPOSED SIGNALS



PROPOSED SIGNS



**GENERAL NOTES**

- 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 THE 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.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- ALL ACCESSIBLE PEDESTRIAN EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-397-7850 TO COORDINATE.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSE SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL REMOVE ALL UNUSED CABLE, AS WELL AS CAP AND ABANDON UN-USED EXISTING CONDUIT.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18\"/>

**CONSTRUCTION DETAILS**

- INSTALL MICRO-LOOP PROBE SET
- INSTALL VIDEO DETECTION CAMERA AND SIGN AS SHOWN ON EXISTING MAST ARM
- INSTALL PUSHBUTTON AND SIGN ON EXISTING POLE
- INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL ELECTRICAL HANDHOLE
- USE EXISTING HANDHOLE
- USE EXISTING CONDUIT
- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON AND SIGN. CUT TO 5 FT. (CUT, CLEAN AND GALVANIZE) (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
- RELOCATE EXISTING SIGNAL HEAD TO LOCATION AS SHOWN

**UTILITY HEIGHTS**

TELEPHONE = 15' - 4"  
 TELEPHONE = 16' - 6"  
 SECONDARY = 21' - 8"  
 PRIMARY = 29' - 6"

**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.**  
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 FAX: (410) 923-6473  
 TRAFFIC@TRAFFIC-CONCEPTS.COM

APPROVALS	REVISIONS
TEAM LEADER ASST. DIV. CHIEF DIVISION CHIEF OFFICE DIRECTOR	① SIGNAL MODIFICATION DUE TO WIDENING ALONG ADMIRAL COCHRANE DRIVE 6-08 JKS TZ A NEW GEOMETRIC IMPROVEMENTS TO MEDIANS ALONG MD 2 12-03

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION

**MD 2 AND ADMIRAL COCHRANE DRIVE / LAKE SHORE DRIVE**

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE 12-1-99 CONTRACT NO. \_\_\_\_\_

DESIGNED BY \_\_\_\_\_ COUNTY ANNE ARUNDEL  
 DRAWN BY R. ZELLNER LOGMILE 02000219.37  
 CHECKED BY B. BIDDLE T.I.M.S. NO. \_\_\_\_\_  
 F.A.P. NO. N/A TOD NO. \_\_\_\_\_

DRAWING NO. TS- 4016B SHEET NO. 1 OF 3

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 DATE: Thursday, August 27, 2009 AT 09:38 AM