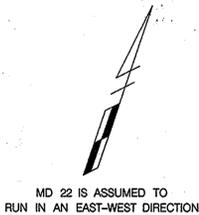


DRILL HOLES

DRILL HOLES

DRILL HOLES



EXISTING SIGNS



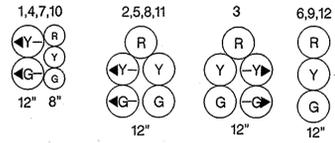
EXISTING SIGNS TO BE REMOVED



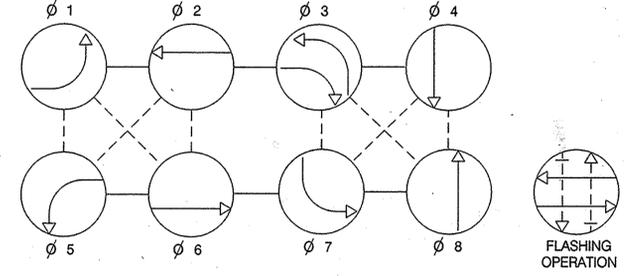
PROPOSED SIGNS



EXISTING SIGNALS



NEMA PHASING

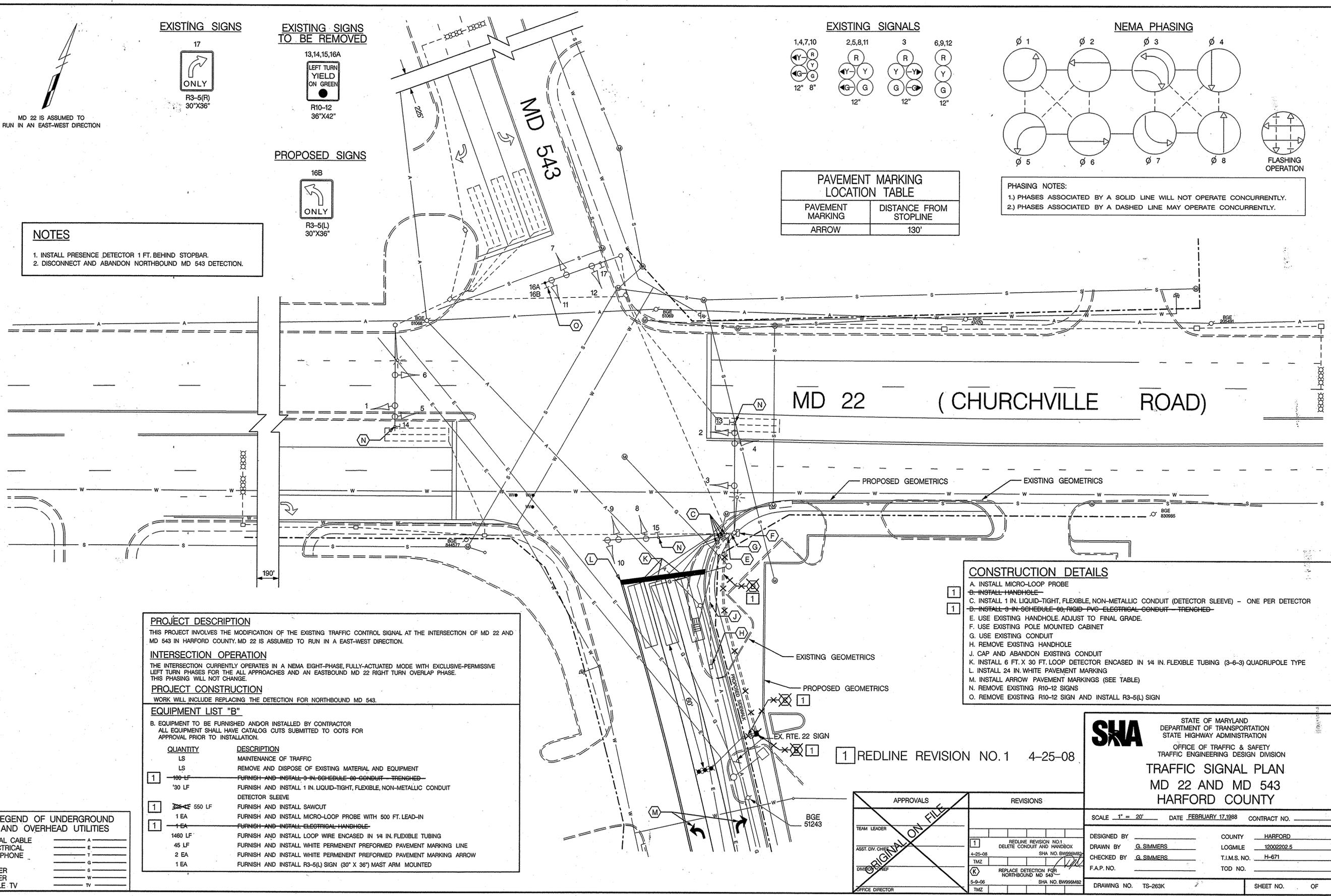


PHASING NOTES:
 1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

PAVEMENT MARKING LOCATION TABLE	
PAVEMENT MARKING	DISTANCE FROM STOPLINE
ARROW	130'

NOTES

1. INSTALL PRESENCE DETECTOR 1 FT. BEHIND STOPBAR.
2. DISCONNECT AND ABANDON NORTHBOUND MD 543 DETECTION.



PROJECT DESCRIPTION
 THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 22 AND MD 543 IN HARFORD COUNTY. MD 22 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION
 THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR THE ALL APPROACHES AND AN EASTBOUND MD 22 RIGHT TURN OVERLAP PHASE. THIS PHASING WILL NOT CHANGE.

PROJECT CONSTRUCTION
 WORK WILL INCLUDE REPLACING THE DETECTION FOR NORTHBOUND MD 543.

EQUIPMENT LIST "B"
 B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
 ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
1	100 LF FURNISH AND INSTALL 3 IN. SCHEDULE 80 CONDUIT - TRENCHED
1	30 LF FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT DETECTOR SLEEVE
1	550 LF FURNISH AND INSTALL SAWCUT
1 EA	FURNISH AND INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
1	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1480 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING
45 LF	FURNISH AND INSTALL WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
2 EA	FURNISH AND INSTALL WHITE PERMANENT PREFORMED PAVEMENT MARKING ARROW
1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNTED

CONSTRUCTION DETAILS

- INSTALL MICRO-LOOP PROBE
- INSTALL HANDHOLE
- INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (DETECTOR SLEEVE) - ONE PER DETECTOR
- INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- USE EXISTING HANDHOLE. ADJUST TO FINAL GRADE.
- USE EXISTING POLE MOUNTED CABINET
- USE EXISTING CONDUIT
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3) QUADRIPOLE TYPE
- INSTALL 24 IN. WHITE PAVEMENT MARKING
- INSTALL ARROW PAVEMENT MARKINGS (SEE TABLE)
- REMOVE EXISTING R10-12 SIGNS
- REMOVE EXISTING R10-12 SIGN AND INSTALL R3-5(L) SIGN

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

1 REDLINE REVISION NO. 1 4-25-08

APPROVALS

TEAM LEADER _____

ASST. DIV. CHIEF _____

DIVISION CHIEF _____

OFFICE DIRECTOR _____

REVISIONS

NO.	DATE	DESCRIPTION
1	4-25-08	REDLINE REVISION NO. 1 DELETE CONDUIT AND HANDHOLE
2	5-9-08	REPLACE DETECTION FOR NORTHBOUND MD 543

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
 MD 22 AND MD 543
 HARFORD COUNTY

SCALE 1" = 20' DATE FEBRUARY 17, 2008 CONTRACT NO. _____

DESIGNED BY _____ COUNTY HARFORD
 DRAWN BY G. SIMMERS LOGMILE 12002202.5
 CHECKED BY G. SIMMERS T.I.M.S. NO. H-671
 F.A.P. NO. _____ TOD NO. _____

DRAWING NO. TS-263K SHEET NO. OF _____