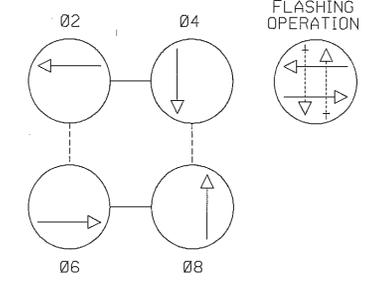
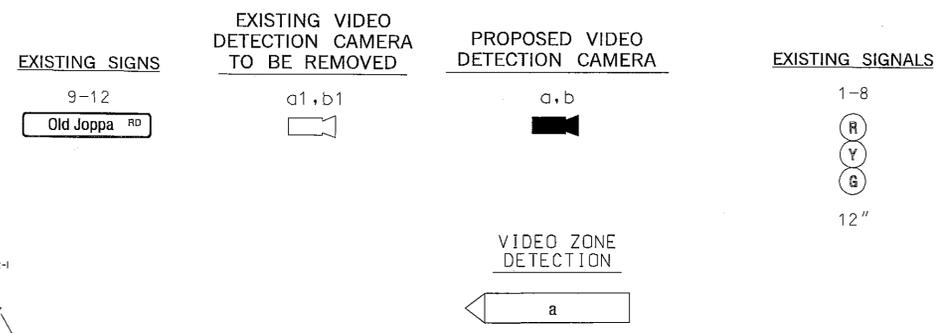


NEMA PHASING



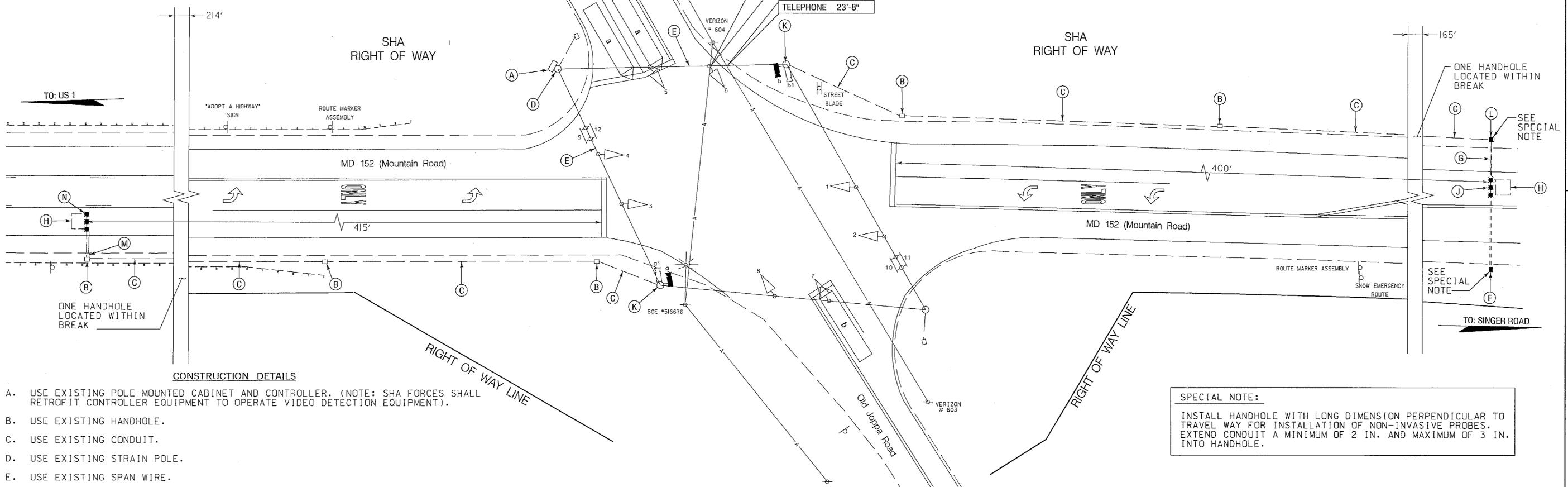
NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



MD 152 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.



CONSTRUCTION DETAILS

- A. USE EXISTING POLE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
- B. USE EXISTING HANDHOLE.
- C. USE EXISTING CONDUIT.
- D. USE EXISTING STRAIN POLE.
- E. USE EXISTING SPAN WIRE.
- F. INSTALL HANDHOLE.
- G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- H. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- J. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- K. USE EXISTING STRAIN POLE AND REMOVE EXISTING VIDEO DETECTION CAMERA AND INSTALL NEW OVERHEAD VIDEO DETECTION CAMERA WITHIN 3 FT. OF TOP OF STRAIN POLE AS SHOWN.
- L. REMOVE EXISTING HANDHOLE AND INSTALL NEW HANDHOLE 90 DEGREES TO ROADWAY. HANDHOLE TO BE INSTALLED ON TOP OF EXISTING CONDUIT HEADING SOUTH LEAVING 6 IN. PROTRUDING INTO NEW HANDHOLE.
- M. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
- N. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN (TO BE PLACED IN THRU LANE ONLY).

SPECIAL NOTE:
INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.

GEOMETRIC LEGEND	
—	EXISTING
---	PROPOSED

UTILITY LEGEND	
—SD—	STORM DRAIN
—G—	GAS MAIN
—W—	WATER MAIN
—S—	SEWER MAIN
—E—	ELECTRIC CABLES
—A—	AERIAL CABLES
—T—	TELEPHONE CABLES
—F—	FIBER-OPTIC

APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>① UPGRADE VIDEO DETECTION ON ALL LEGS. INSTALL NON-INVASIVE PROBES. ASBUILT. SHA NO. XX3356168 TMS J631 1/17/2009</p> <p>B ADD VIDEO DETECTION ON OLD JOPPA DUE TO WIDENING SHA NO. BW996M82-1120 MAY 8, 2008</p> <p>A ASBUILT CHANGE TO FULL TRAFFIC ACUTUATED SHA NO. BW996M82</p>

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 152 at Old Joppa Road

TRAFFIC SIGNALIZATION PLAN			
SCALE 1" = 20'	ADVERTISED DATE 1/2/2004	CONTRACT NO. HA188A561856	
DESIGNED BY B. Thompson	COUNTY Harford	DRAWN BY M. Tadayon	LOGMILE 12015206.19
CHECKED BY D. Doda	TMS NO. J631	F.A.P. NO.	TOD NO.
TS NO. 2374.C	DRAWING TSP-4	OF 13	SHEET NO. 4 OF 13

TOD NO: XX3356-06
SHA NO: HA378K53
VL in HARFORD CO.

PLOTTED: 11-05-2009
FILE: r:\31669-033\cadd\p82-r04_j631.dgn

BY: sbj/sss