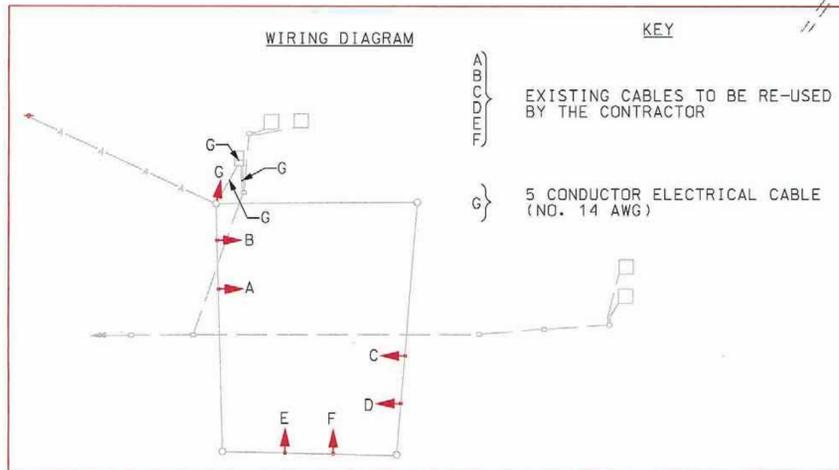
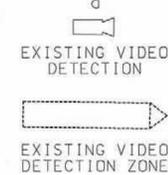


MD 3 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

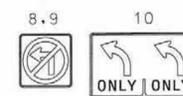


PROPOSED SIGNALS

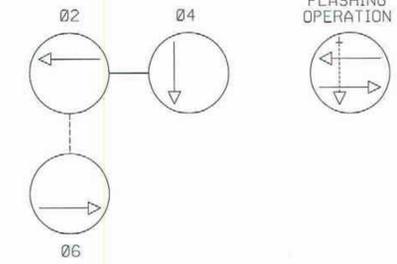
- 1-7
- (R)
- (Y)
- (G)
- 12"



EXISTING SIGNS



NEMA PHASING

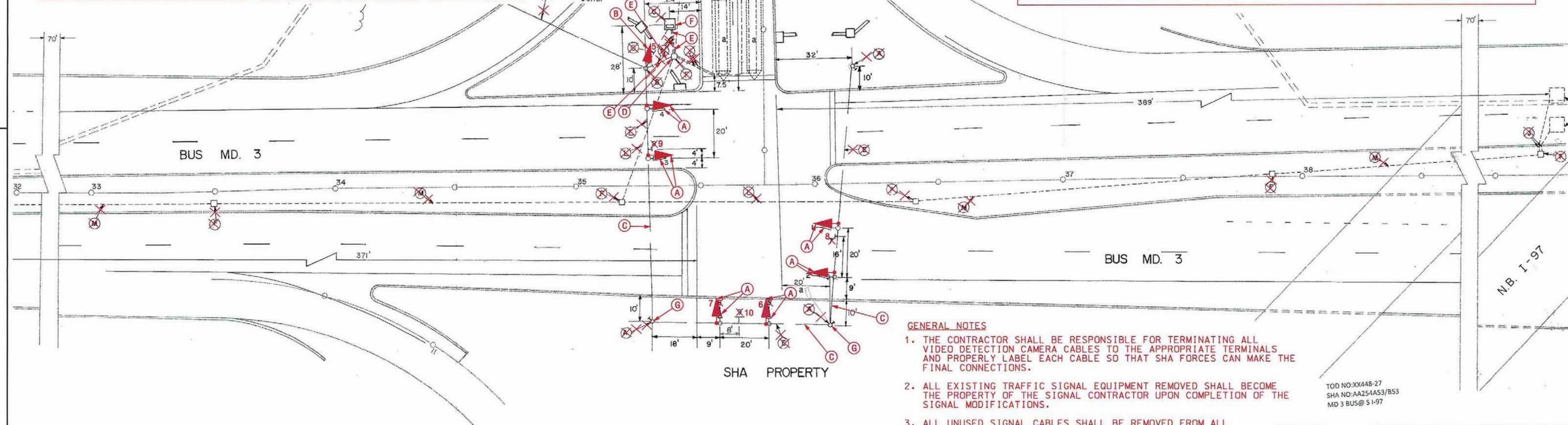


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8001	12 INCH (R,Y,G) LED SIGNAL HEAD	EA	18
8007	8 INCH LED SIGNAL (R,Y,G) SIGNAL HEAD SECTION	EA	3
8058	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)	LF	100

NOTE: CONC. PAD FOR CONTROLLER CABINET SHALL BE POURED TO A TOP ELEVATION 2" HIGHER THAN TOP OF ADJACENT CURB.



GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL VIDEO DETECTION CAMERA CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
3. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED FROM ALL CONDUITS, HANDHOLES AND CABINET AND DISPOSED OF BY THE CONTRACTOR.
4. PROPOSED LED TRAFFIC SIGNAL HEAD REPLACEMENTS SHALL BE INSTALLED IN THE SAME LOCATION AS THE OLD SIGNAL HEADS AND THEY SHALL BE ENERGIZED BY THE EXISTING CABLE FROM THE OLD TRAFFIC SIGNAL HEAD.

TOD NO: XX448-27
SHA NO: AA254A53/B53
MD 3 BUS@ S I-97

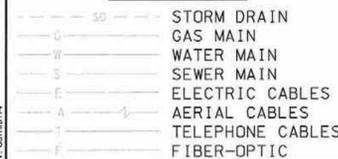
CONSTRUCTION DETAILS

1. REMOVE EXISTING SIGNAL HEAD FROM THE SPAN WIRE COMPLETELY LEAVING EXISTING WIRES IN THE SAME LOCATION, THEN INSTALL NEW LED SIGNAL HEAD SECTION IN THE SAME LOCATION USING THE EXISTING WIRES TO ENERGIZE.
2. USE EXISTING STRAIN POLE AND INSTALL LED TRAFFIC SIGNAL HEAD SECTION WITH NEW 5 CONDUCTOR CABLE INSTALLED TO THE NEW SIGNAL HEAD AND RUN BACK TO THE EXISTING BASE MOUNTED SIGNAL CABINET AND CONTROLLER.
3. USE EXISTING SPAN WIRE.
4. USE EXISTING HANDHOLE.
5. USE EXISTING CONDUIT.
6. USE EXISTING BASE MOUNTED CABINET.
7. USE EXISTING STRAIN POLE.

GEOMETRIC LEGEND



UTILITY LEGEND



SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 180
BALTIMORE, MD 21227
(410) 737-6564
WWW.SABRA-WANG.COM

APPROVALS	REVISIONS
<p>TEAM LEADER, TRAFFIC ENGINEERING DIVISION</p> <p>ASST. CHIEF TRAFFIC ENGINEERING DIVISION</p> <p>CHEF TRAFFIC ENGINEERING DIVISION</p> <p>DIRECTOR, OFFICE OF TRAFFIC & SAFETY</p>	<p>① SHA No. XX448185 TMS No. J431X 7/2009 UPGRADE ALL TRAFFIC SIGNAL HEADS TO LED AND INSTALL NEARBY SIGNAL</p> <p>SWA [Signature] 3/15/04</p> <p>A INSTALL VIDEO DETECTION SHA No. A13089195</p> <p>SWA</p>

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

MD 3 BUSINESS AT SOUTH BOUND I-97 OFF RAMP
GLEN BURNIE, MARYLAND

TRAFFIC SIGNAL PLAN		
SCALE 1"=20'	DATE NOVEMBER 1986	CONTRACT NO. AA348A54/854
DESIGNED BY PAH	COUNTY ANNE ARUNDEL	
DRAWN BY CLD	LOGMILE 0.44 @ 2.89	
CHECKED BY DJD	T.I.M.S. NO.	
F.A.P. NO. I-97-1(12)	TOD NO.	
TS NO. 2193B	DRAWING 1 OF 1	SHEET NO. OF

PLOTTED: Thursday, February 05, 2009 AT 08:36 AM
FILE: G:\Task 70 MD 3 Bus at S I-97\Dgn\MD3BUS@S97SRamp.dgn