



**EXISTING SIGNS TO REMAIN**

20 SOUTH 229  
21,27 DO NOT ENTER  
23a,23b,26a,26b Bensville RD  
24 EAST 228  
25 SOUTH 229  
28 WRONG WAY  
29 ONLY  
30,31 ONEWAY  
33

**EXISTING SIGNALS TO REMAIN**

1,2,6 7,8 c,d,e,f  
EXISTING OPTICOM DETECTION  
12"

**EXISTING SIGNALS TO BE REMOVED**

3a 4a  
12" / 8" 12"

**PROPOSED SIGNS**

22 R4-7 (30" x 36")  
32 Berry Road  
WEST 228 EAST  
M1-5(4) (78" x 36")

**PROPOSED LED SIGNALS**

3,4 5  
a,b  
PROPOSED VIDEO DETECTION  
12" 12"

**NEMA PHASING**

Ø2 Ø4  
Ø5 Ø6  
FLASHING OPERATION

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

MD 228 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

UNDERGROUND POWER FEED WITHIN THE BREAK

RIGHT OF WAY LINE

MD 228 WB (BERRY ROAD)

MD 228 EB (BERRY ROAD)

MD 229 SB (BENSVILLE ROAD)

**GENERAL NOTES:**

1. VIDEO CAMERA LOCATION ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. ALL BANDED SIGNS WILL BE INSTALLED IN ACCORDANCE WITH MD 813.08.
4. ALL NEW HANDHOLES WILL BE INSTALLED IN ACCORDANCE WITH MD 811.01, 811.02, AND 811.03.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. 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.
7. THE CONTRACTOR SHALL WORK ONE QUADRANT AT A TIME AND MAINTAIN PEDESTRIAN ACCESSIBILITY TO ALL OTHER QUADRANTS.

TOD NO: XY139-08  
SHA NO: CH236B51  
MD 228 @ MD 229

**CONSTRUCTION DETAILS:**

- A. INSTALL HANDHOLE ORIENTED FOR NON-EVASIVE PROBES.
- B. INSTALL NON-INVASIVE DETECTOR AND LEAD IN CABLE.
- C. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- E. USE EXISTING HANDHOLE.
- F. USE EXISTING CONDUIT.
- G. USE EXISTING CABINET AND CONTROLLER.
- H. USE EXISTING MAST ARM, REMOVE EXISTING SIGNAL HEAD(S), INSTALL NEW LED SIGNAL HEADS, AND INSTALL NEW VIDEO DETECTION CAMERAS AS SHOWN.
- J. BAND SIGN TO MAST ARM OR SIGNAL POLE.
- K. REMOVE EXISTING HANDHOLE.
- L. CAP AND ABANDON EXISTING CONDUIT.
- M. DISCONNECT AND ABANDON EXISTING LOOP DETECTOR OR MICRO LOOP PROBE.

**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 CABLES

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 228 (BEALLE HILL ROAD) AND  
MD 229 (BENSVILLE ROAD)  
WALDORF, MD

APPROVALS	REVISIONS
TEAM LEADER	Ø 04/13 TMS-L815 SHA NO. XY1395185 ADD EXCLUSIVE LEFT-TURN PHASE
ASST. DIR. CHIEF	JPC
DIVISION CHIEF	Ø 6-25-96 SHA NO. AW 760-501-571 "AS-BUILT"
OFFICE DIRECTOR	RRZ

DESIGNED BY	COUNTY
S. BLOSS	CHARLES
DRAWN BY	LOGMILE
T. ZAYDEL	05022800.17
CHECKED BY	TMS NO.
T. HANNAN	
F.A.P. NO.	TOD NO.

**SIGNALIZATION PLAN SHEET**

SCALE 1" = 20' ADVERTISED DATE 10-4-95 CONTRACT NO. AW 760-501-571

TS NO. 3553-B DRAWING SG-1 OF 1 SHEET NO. 1 OF 2

**BAI** BRUDIS & ASSOCIATES, INC.  
Consulting Engineers  
9240 Rumsey Road, Suite 710  
Columbia, Maryland 21045  
Phone 410-884-3807  
www.brudis.com