EXISTING SIGNALS & SIGNS

1.2. 5. 6. 7. 8 8a.8b — R, Y, G 12" — Delancy Road (D-3(s); (DUAL FACED) (Vgr. x 18")

10 — ONLY (R3-5(L); 36" x 42")

11 — SOUTH TO 781 / EASTLAND 40 — ASSOCIATED SHIELD ASSEMBLY SIGN

12 — M6-4 21" x 15"

13 — WEST HARYLAND 281 EAST (M5-1 (36" X 24"))

14-16 — R3-9 36" x 36"

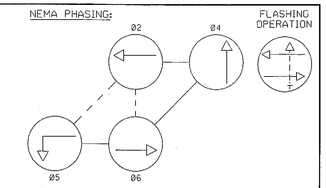
MD 281 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNALS

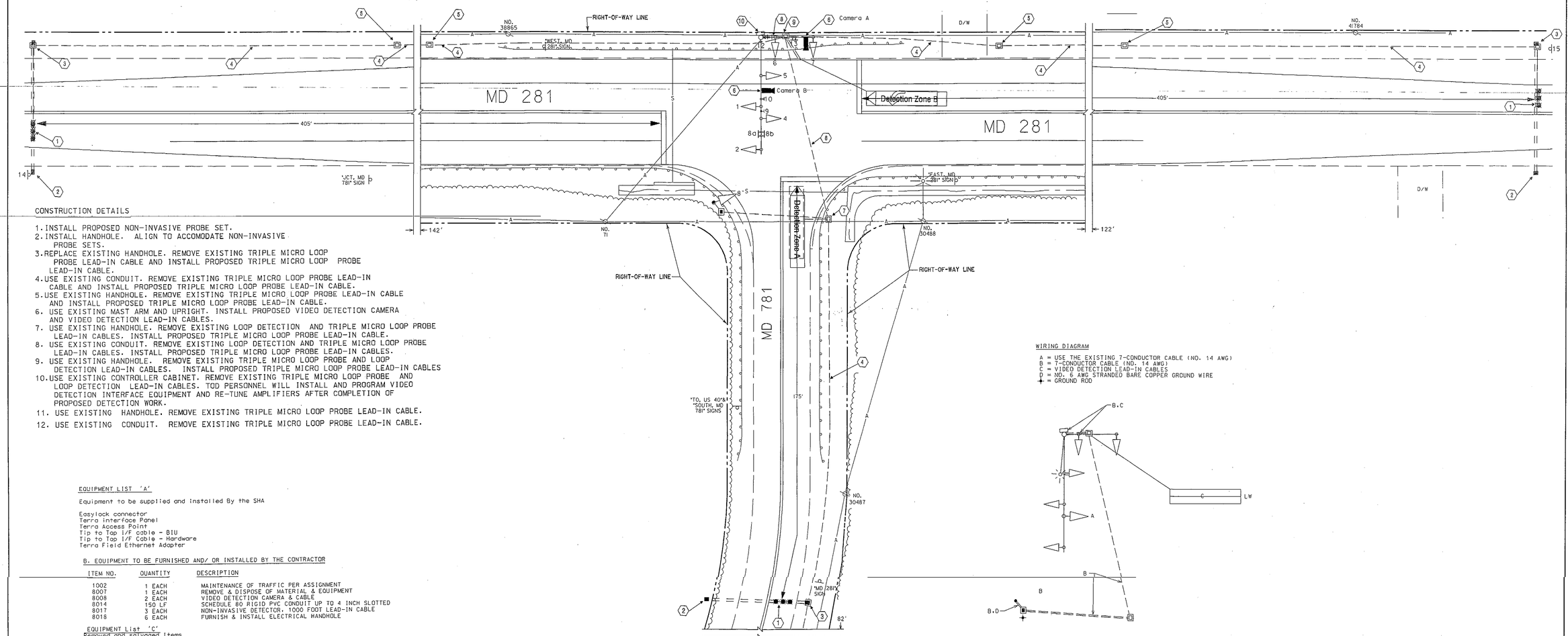
3.4 — R, Y, G 12"

PROPOSED VIDEO CAMERAS A & B

NEMA PHASING:



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



CONSTRUCTION DETAILS

1. INSTALL PROPOSED NON-INVASIVE PROBE SET.
2. INSTALL HANDHOLE. ALIGN TO ACCOMODATE NON-INVASIVE PROBE SETS.
3. REPLACE EXISTING HANDHOLE. REMOVE EXISTING TRIPLE MICRO LOOP PROBE LEAD-IN CABLE AND INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.
4. USE EXISTING CONDUIT. REMOVE EXISTING TRIPLE MICRO LOOP PROBE LEAD-IN CABLE AND INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.
5. USE EXISTING HANDHOLE. REMOVE EXISTING TRIPLE MICRO LOOP PROBE LEAD-IN CABLE AND INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.
6. USE EXISTING MAST ARM AND UPRIGHT. INSTALL PROPOSED VIDEO DETECTION CAMERA AND VIDEO DETECTION LEAD-IN CABLES.
7. USE EXISTING HANDHOLE. REMOVE EXISTING LOOP DETECTION AND TRIPLE MICRO LOOP PROBE LEAD-IN CABLES. INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.
8. USE EXISTING CONDUIT. REMOVE EXISTING LOOP DETECTION AND TRIPLE MICRO LOOP PROBE LEAD-IN CABLES. INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLES.
9. USE EXISTING HANDHOLE. REMOVE EXISTING TRIPLE MICRO LOOP PROBE AND LOOP DETECTION LEAD-IN CABLES. INSTALL PROPOSED TRIPLE MICRO LOOP PROBE LEAD-IN CABLES
10. USE EXISTING CONTROLLER CABINET. REMOVE EXISTING TRIPLE MICRO LOOP PROBE AND LOOP DETECTION LEAD-IN CABLES. TOD PERSONNEL WILL INSTALL AND PROGRAM VIDEO DETECTION INTERFACE EQUIPMENT AND RE-TUNE AMPLIFIERS AFTER COMPLETION OF PROPOSED DETECTION WORK.
11. USE EXISTING HANDHOLE. REMOVE EXISTING TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.
12. USE EXISTING CONDUIT. REMOVE EXISTING TRIPLE MICRO LOOP PROBE LEAD-IN CABLE.

WIRING DIAGRAM

A = USE THE EXISTING 7-CONDUCTOR CABLE (NO. 14 AWG)
B = 7-CONDUCTOR CABLE (NO. 14 AWG)
C = VIDEO DETECTION LEAD-IN CABLES
D = NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
⏚ = GROUND ROD

EQUIPMENT LIST 'A'

Equipment to be supplied and installed By the SHA

Easylock connector
Terra interface Panel
Terra Access Point
Tip to Tap I/F cable - BIU
Tip to Tap I/F Cable - Hardware
Terra Field Ethernet Adapter

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

ITEM NO.	QUANTITY	DESCRIPTION
1002	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8007	1 EACH	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT
8008	2 EACH	VIDEO DETECTION CAMERA & CABLE
8014	150 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH SLOTTED
8017	3 EACH	NON-INVASIVE DETECTOR, 1000 FOOT LEAD-IN CABLE
8018	6 EACH	FURNISH & INSTALL ELECTRICAL HANDHOLE

EQUIPMENT List 'C'

Removed and salvaged Items

NONE

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	aERIAL CABLES
—T—T—	TELEPHONE CABLES
—D—D—	STORM DRAIN

REVISIONS	APPROVALS
(C) Installation of video detection XX6625185 - 07/2013 M-225	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
(B). 09/2003 - PROVIDE EXCLUSIVE/ PERMISSIVE LEFT TURN PHASING FOR W/B MD 281 SHA NO. XX1065185	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
W.M. M.A.R. D.A.Z. B.R.K.	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
(A). 09/1999 - CONVERTED EXISTING ICB TO FULL TRAFFIC CONTROL SIGNAL SHA NO.	DIRECTOR, OFFICE OF TRAFFIC & SAFETY
N.M.L. D.A.Z. B.R.K. T.H.	

NOTE: A REVISION TO CE790A54B5 DATED 09/23/1999 IS ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 281 (RED HILL ROAD) and
MD 781 (DELANCY ROAD)
ELKTON, MARYLAND

DRAWN BY: S. Rhea of WHITMAN-REDGRAT	F.A.P. NO.	T.S. NO. TS-3279 C	SHEET NO.
CHECKED BY: Neil Lary of WHITMAN-REDGRAT	S.H.A. NO. CE790A54/B54		
SCALE: 1" = 20'	COUNTY CECIL	T.I.M.S. NO. M-225	1 OF 1
DATE: 09/23/1999	LOG MILE 07028101.81		