FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.			

Construction Details

1. Install 6' x 30' quadrupole loop detector. (Note: 3-6-3 turns)
2. Install 6' x 6' loop detector. (Note: 4 turns)
3. Use existing handhole. Disconnect and remove existing phase 4 loop wires and Cap existing detector sleeve. Install proposed detector sleeves. Install and splice proposed sample loop wires to existing loop detector lead-in cables
4. Use existing conduit. Remove existing phase 4 loop detector lead-in cables.
5. Rebuild existing handhole. Disconnect existing loop detector lead-in cables. Cap existing detector sleeve. Install proposed detector sleeve. Install and splice proposed loop wires to existing loop detector lead-in cable.
6. Use existing strain pole. Remove existing loop detector lead-in cables for phase 4. Install proposed video detection camera and lead-in cable.
7. Use existing span wire. Remove existing loop detector lead-in cables for phase 4. Install proposed video detection lead-in cable and re-ring span.
8. Use existing handhole. Disconnect and remove existing loop wires and lead-in cable(s). Cap detector sleeves. Install proposed detector sleeves. Install and splice proposed loop wires to proposed lead-in cable(s).
9. Use existing conduit. Remove existing loop detector lead-in cable(s). Install proposed loop detector lead-in cable(s).
10. Use existing strain pole. Remove existing loop detector lead-in cables. Install proposed loop detector lead-in cables. Install proposed video detection camera and lead-in cable.
11. Use existing span wire. Remove existing loop detector lead-in cables Install proposed video detection and loop detector lead-in cables and re-ring span.
12. Use existing strain pole. Remove existing loop detector lead-in cables. Install proposed loop detector and video detection lead-in cables.
13. Use existing conduit. Remove existing loop detector lead-in cables. Install proposed loop detector and video detection lead-in cables.
14. Use existing handhole. Remove existing phase 3, 4 and sample loop detector lead-in cables. Install proposed 4 inch schedule 80 pvc conduit. Install proposed loop detector and video detection lead-in cables and re-route all other loop detector lead-in cables though proposed conduit.
15. Install 4 inch schedule 80 pvc conduit. Install proposed loop detector and video detection lead-in cables and re-route all other loop detector lead-in cables though proposed conduit.
16. Install a 4 inch conduit bend into existing controller cabinet. Remove existing phase 3, 4 and sample loop detector lead-in cables. Install proposed sample loop detector and video detection lead-in cables and re-route all other loop detector lead-in cables through proposed conduit bend. Traffic Operations Division personnel to install video interface equipment and re-tune amplifiers upon completion of proposed work.
17. Remove existing stop line(s) and replace stop line(s) in accordance with SHA Standards.

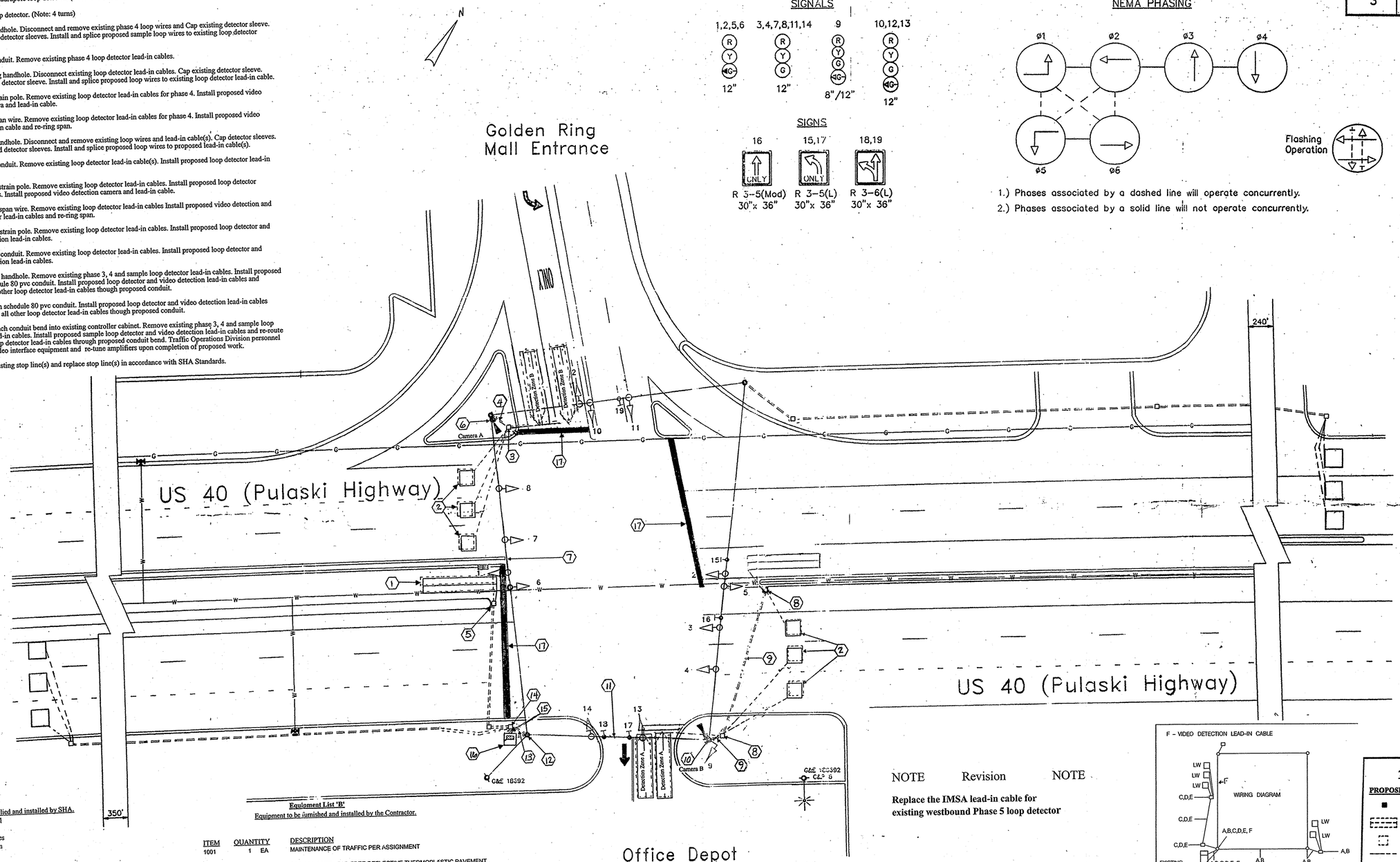
SIGNALS

SIGNS

NEMA PHASING

Flashing Operation

1.) Phases associated by a dashed line will operate concurrently.
2.) Phases associated by a solid line will not operate concurrently.



Equipment List 'A'
Equipment to be supplied and installed by SHA.
Communication Panel
TS-2 Mini-Hub
TS-2 Mini-Hub Cables
Industrial 56k Modem
SDLC Cables

Equipment List 'B'
Equipment to be furnished and installed by the Contractor.

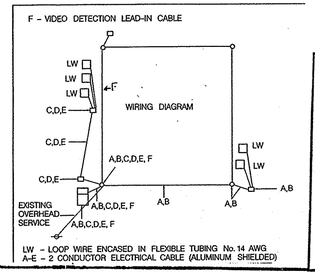
ITEM	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5003	155	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	155	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
8010	2	EA	ADJUST AND RE-RING EXISTING SPAN WIRE (EACH SPAN)
8015	1	EA	CONDUIT BEND IN EXISTING BASE
8017	1	EA	REBUILD HANDHOLE- NEW FRAME & COVER
8018	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8022	6	LF	DISCONNECT, PULL-BACK & REROUTE CABLE
8036	6	LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
8040	42	LF	1 IN. LIQUID TIGHT FLEXABLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8050	2	EA	VIDEO DETECTION CAMERA & CONTROLLER CABLES UP TO 500 LF
8057	450	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8062	1150	LF	LOOP WIRE ENCASED IN FLEXABLE TUBING (NO.14 AWG)
8063	370	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

Equipment List 'C'
Removed and Salvaged Items

NONE

NOTE Revision NOTE

Replace the IMSA lead-in cable for existing westbound Phase 5 loop detector



TRAFFIC SIGNAL SYMBOLS

PROPOSED		EXISTING
■	HANDHOLE	□
	LOOP DETECTOR(6X30)	
	LOOP DETECTOR(6X6)	□
	CONDUIT	
	MICRO LOOP PROBE SET	
	ZOOM LENS IMAGE SENSOR	

GEOMETRIC LEGEND

PROPOSED GEOMETRICS
EXISTING GEOMETRICS

UTILITY LEGEND

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

REVISIONS

© Replace Failed Detection OT 2007	September 2007
Ⓑ Modify for Additional Side Road Phase S.H.A. NO. BW-523-802-412	June 20, 1992
J.A.B.	

APPROVALS

PROJECT MANAGER, SIGNAL DESIGN SECTION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

LOG MILE # 03004006.97

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US 40 and GOLDEN RING MALL/ OFFICE DEPOT ENTRANCES
COUNTY: BALTIMORE

DATE: January 7, 1974
SCALE: 1" = 20'
F.A.P. NO.
S.H.A. NO.

TS/STD. NO. 1102 C

SHEET NO. 1 OF 1