MD 650 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION

Construction Details

1. Install proposed triple micro loop probe sets.
2. Use existing handhole. Cap and abandon existing detector sleeve. Remove existing triple micro loop probe lead-in cables and install proposed detector sleeve and triple micro loop probe lead-in cables.
3. Use existing conduit. Remove existing triple micro loop probe lead-in cables and install proposed triple micro loop probe lead-in.
4. Install proposed 6'x 30' loop detector (3-6-3 turns).
5. Use existing handhole. Remove existing triple micro loop probe lead-in cables and install proposed triple micro loop probe lead-in cables. Cap and abandon existing detector sleeve and install proposed detector sleeve and loop wires. Pull back and re-route existing loop detection lead-in cables. Splice proposed loop wires to existing loop detector lead-in cables.
6. Install 3 inch PVC conduit (slotted in road) install proposed triple micro loop probe and loop detection lead-in cables. Connect conduit to existing bend in pole base.
7. Use existing strain pole. Remove existing triple micro loop probe lead-in cables. Install proposed triple micro loop probe lead-in cables.
8. Use existing span wire. Remove existing triple micro loop probe lead-in cable and install proposed triple micro loop probe lead-in cables.
9. Use existing handhole. Cap and abandon existing detector sleeve. Remove existing loop detection lead-in cables.
10. Use existing conduit. Remove existing loop detection lead-in cables.
11. Use existing strain pole. Remove existing loop detection lead-in cables. Install proposed video camera and video detection lead-in cable.
12. Use existing span wire. Remove existing loop detection lead-in cable and install proposed video detection lead-in cable.
13. Use existing handhole. Remove existing triple micro loop probe lead-in cables and install proposed triple micro loop probe lead-in cables.
14. Use existing handhole. Remove existing triple micro loop probe and loop detection lead-in cables. Install proposed triple micro loop probe and loop detection lead-in cables. Splice proposed loop detection lead-in cables to existing loop wires. Remove existing field wires for pedestrian signal and pushbutton and install proposed field wires for pedestrian signal and pedestrian pushbutton.
15. Use existing pedestrian pole and signal. Remove existing field wires for pedestrian signal and pushbutton and install proposed field wires for pedestrian signal and pushbutton.
16. Install proposed 4" PVC conduit (slotted in road). install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
17. Excavate this area. Install proposed 4 inch PVC conduit (trenched). Replace concrete block.
18. Use existing handhole. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
19. Use existing conduit. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
20. Use existing strain pole. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
21. Use existing spanwire. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
22. Use existing strain pole. Install video detection camera and video detection lead-in cable. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables.
23. Use existing controller cabinet. Remove existing field wires for pedestrian signal and pushbutton, loop detection lead-in cable and triple micro loop probe lead-in cables. Install proposed field wires for pedestrian signal and pushbutton, loop detection lead-in cable for phase 5 and triple micro loop probe lead-in cables. TOD personnel will install and program video detection interface equipment and re-tune amplifiers after completion of proposed detection work.
24. Remove existing stop line and re-install in accordance to SHA Standards.

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

EXISTING SIGNS

17,18 — ONLY

15A,15B,16A,16B — Quebec Street — DUAL FACED

PROPOSED VIDEO DETECTION CAMERAS A&B

EXISTING SIGNALS

1-6, 7-12, 13,14 — R Y G — 12" — BLACK FACED

SIGNAL

2,5 — R Y G — BLACK FACED

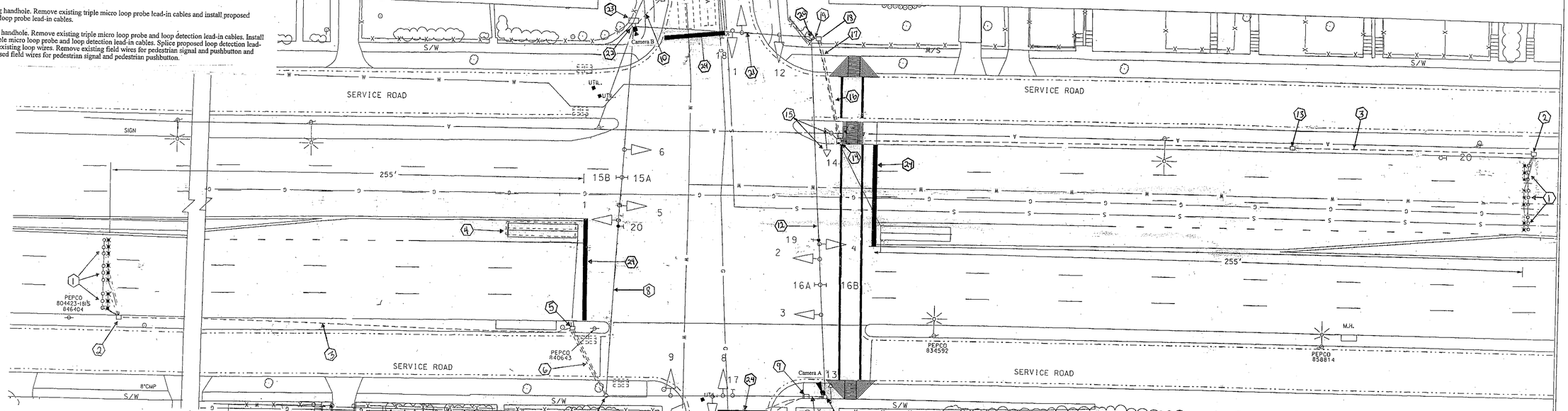
1,4 — R Y G

NEMA PHASING

Ø1 Ø2 Ø4 Ø8 ALT.

Ø5 Ø6 Ø8

FLASHING OPERATION



Equipment List 'B'

Equipment to be furnished and installed by the Contractor.

ITEM	QUANTITY		DESCRIPTION
1002	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	1	CY	CLASS 2 EXCAVATION
5003	135	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
5004	135	LF	24 INCH WHITE PREFORMED THERMOPLASTICPAVEMENT MARKING LINES
6002	16	SF	5 INCH CONCRETE SIDEWALK
8019	2	EA	F & I VIDEO DETECTION CAMERA W/ 3 WIRE
8021	1	EA	REMOVE & DISPOSE OF EQUIPMENT
8025	25	LF	1 IN. ELECTRICAL CONDUIT- GALVANIZED SLEEVE
8027	30	LF	DISCONNECT, PULL BACK, AND REROUTE CABLE
8032	70	LF	UP TO '4 IN. SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
8033	4	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
8041	5	LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8045	6	EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8053	220	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8055	210	LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO.14 AWG)
8056	210	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8058	500	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8059	230	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

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-Hardwire
Terra Field Ethernet Adapter

Equipment List 'C'

Removed and Salvaged Items

NONE

TRAFFIC SIGNAL SYMBOLS

PROPOSED		EXISTING
■	HANDHOLE	□
	LOOP DETECTOR(6X20)	
	LOOP DETECTOR(6X6)	
	CONDUIT	
	MICRO LOOP PROBE SET	
	ZOOM LENS IMAGE SENSOR	

REVISIONS

(F) Installation of Video Detection OT 2011-27861T16059 03/2011 L.M. Hartz

(E) INSTALL E/P LEFT TURN PHASING FOR MD 650 TIMS # D 485 10/01/2001 SAH

(D) REPLACE MD 650 SIGNAL HEADS WITH BLACK FACED HEADS ADD HEARSIDE HEAD S/B 650 TIMS # D 485

(C) REPLACE LOOPS, CHANGE FROM DIAGNAL SPAN TO BOX SPAN AND ADD NEAR SIGNALS P-839-501-385 8/10/86

(B) REPLACE SIGNALS, LOOPS, AND CONTROLLER SHA # P-839-501-385 8/10/85

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

SEE ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 650 (NEW HAMPSHIRE AVE.)
AT QUEBEC STREET

DRAWN BY: DAVE WALLACE	F.A.P. NO.	TS NO. 1617 F	SHEET NO.
CHECKED BY: DAN MESZLER	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES	T.I.M.S. NO.	OF
DATE: 4/18/78	LOG MILE: 16065002.39		