PROJECT DESCRIPTION

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF VIDEO DETECTION CAMERAS AND NON-INVASIVE LOOP DETECTORS AT THE INTERSECTION OF MD 53 (WINCHESTER ROAD) AND MD 658 (VOCKE ROAD) FOR THE RESURFACING OF MD 53 IN LAVALE, ALLEGANY COUNTY. MD 53 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION SHALL OPERATE AT ITS EXISTING NEMA FOUR-PHASE FULL TRAFFIC ACTUATED MODE.

THE SIGNAL SHALL BE INTERCONNECTED TO THE NORTHBOUND AND SOUTHBOUND MD 53/BRADDOCK SQ SC SIGNALIZED INTERSECTION TO THE NORTH AND THE NORTHBOUND AND SOUTHBOUND MD 658/LINDA WAY SIGNALIZED INTERSECTION TO THE EAST.

CONTROLLER REQUIREMENTS

INSTALL A VIDEO DETECTOR SYSTEM INTO EXISTING BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE LOOP DETECTORS.

PROJECT CONTACTS

CONTACTS FOR DISTRICT 6

MR. GEORGE SMALL
ASSISTANT DISTRICT ENGINEER, TRAFFIC
301-729-8444

MR. GEORGE FRANKENBURY
ASSISTANT DISTRICT ENGINEER, MAINTENANCE
301-729-8457

MR. BOB ROWAN
UTILITIES ENGINEER
301-301-729-8439

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPECIFICATION NUMBER	QUANTITY	DESCRIPTION
[1] 900000	1 EA	VIDEO INTERFACE EQUIPMENT (1 TO 4 CAMERAS)

EQUIPMENT LIST 'B'

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

SPECIFICATION NUMBER	QUANTITY	DESCRIPTION
585416	170 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
802145	2 EA	ADJUST EXISTING HANDHOLE
805135	120 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805150	170 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
810605	2 EA	NON-INVASIVE DETECTOR, 1000 FT LEAD IN CABLE
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	[1] 4 ~~X~~ EA	VIDEO DETECTION CAMERA
816005	[1] 4 ~~X~~ EA	CONTROL CABLE, 250 FT, VIDEO DETECTION CAMERA TO CONTROLLER
861107	1700 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	460 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

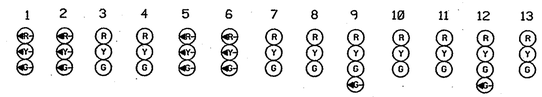
EQUIPMENT LIST 'C'

NONE

EQUIPMENT LIST 'D'

NONE

PHASE CHART

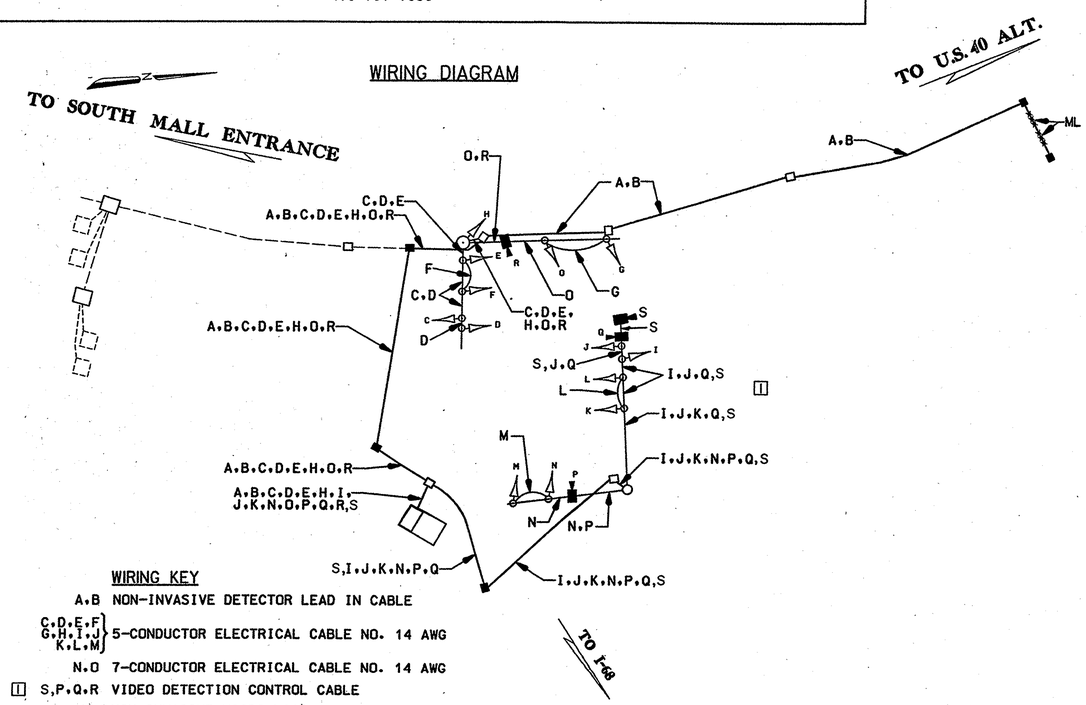


	1	2	3	4	5	6	7	8	9	10	11	12	13
Phase 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R
1 & 5 change	THIS PHASE MAY SKIP TO PHASE 1+6, 2+5 OR 2+6												
Phase 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R
1 & 6 change	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R
2 & 5 change	R	R	R	R	Y	Y	Y	Y	R	R	R	R	R
Phase 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R
2 & 6 change	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R
Phase 3	R	R	R	R	R	R	R	R	G/G	G	R	R	R
3 change	R	R	R	R	R	R	R	R	Y	Y	R	R	R
Phase 4	R	R	R	R	R	R	R	R	R	R	G	G/G	G
4 change	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

FIREHOUSE PRE-EMPTION

Pre-emption Phase 3	R	R	R	R	R	R	R	R	G/G	G	R	R	R
Pre-emption Clearance	R	R	R	R	R	R	R	R	Y	Y	R	R	R
Normal Operation Phase 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R

WIRING DIAGRAM



WIRING KEY

A,B NON-INVASIVE DETECTOR LEAD IN CABLE

C,D,E,F G,H,I,J K,L,M 5-CONDUCTOR ELECTRICAL CABLE NO. 14 AWG

N,O 7-CONDUCTOR ELECTRICAL CABLE NO. 14 AWG

[1] S,P,Q,R VIDEO DETECTION CONTROL CABLE

ML NON-INVASIVE MICRO-LOOP

[1] REVISION NO. 1
MAY 24, 2005

REVISION C CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 West Road
Suite 300
Towson, Maryland 21204

SG-04

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 53 (WINCHESTER ROAD) &
MD 658 (VOCKE ROAD) - GENERAL INFORMATION

DRAWN BY: S.A.	F.A.P. NO.	TS NO. TS94 C	SHEET NO.
CHECKED BY: R.D.	S.H.A. NO.		
SCALE: 1":20'	COUNTY: ALLEGANY	T.I.M.S. NO. G187	23 OF 37
DATE: APRIL 1998	LOG MILE: 01005300.63		

08:05:14 AM
03/05/2004
M:\PROJ\4201009.01\Cadd\sg04s03.dgn