PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND WHITEHALL ROAD IN CECIL COUNTY. THE MODIFICATION WILL ADD VIDEO AND NONINVASIVE DETECTION EQUIPMENT. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA 6 PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASING ON THE EASTBOUND AND WESTBOUND US 40 APPROACH'S AND SPLIT PHASING ON SIDE STREETS. A VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.

CONTACTS

DISTRICT (DISTRICT 2)	OFFICE OF TRAFFIC AND SAFETY
MR. TERRY WRIGHT DISTRICT ENGINEER 410-810-3210	MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. JEFF WENTZ ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-810-3240	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. BARRY CLOTHIER DISTRICT UTILITY ENGINEER 410-810-3275	MR. EDWARD RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION 410-787-7650
MR. WM NORRIS EMBERT ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-810-3270	MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS SECTION 410-787-7670
MR. MIKE LEWIS ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-810-3250	MR. MICHAEL STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

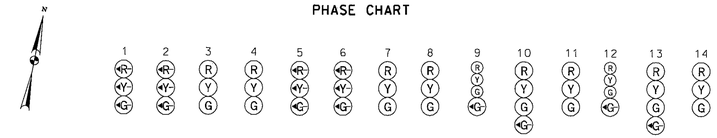
ITEM NO.	QUANTITY		DESCRIPTION
9016	1	EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER
9086	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

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

ITEM NO.	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
8022	4	EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8028	4	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	135	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8037	75	LF	UP TO 4 INCH SCHEDULE 80 RIDID PVC CONDUIT - SLOTTED
8038	120	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8046	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

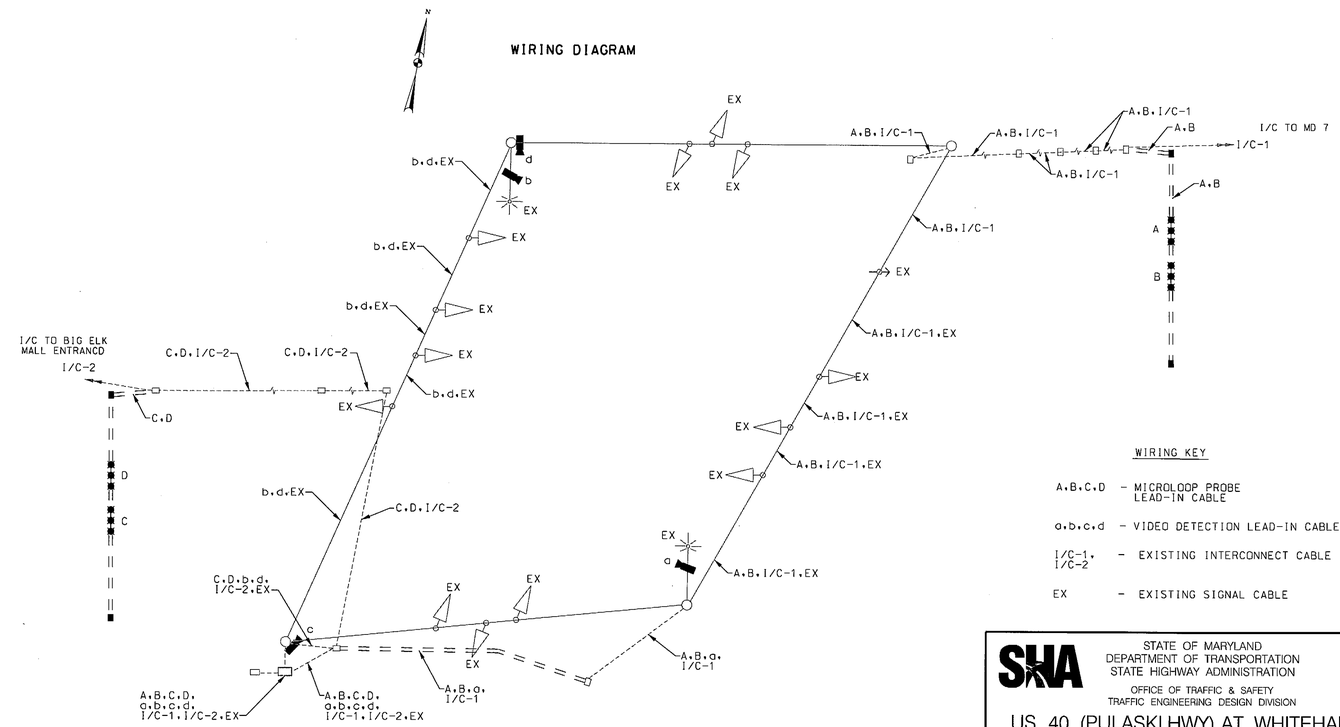
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	←G-/R	←G-/R	R	R	←G-/R	←G-/R	R	R	R	R	R	R	R	R
PHASE 1 & 5 MAY CHANGE TO PHASE 1 AND 2, 2 AND 5 OR 2 AND 6														
PHASE 1 & 6	←G-/G	←G-/G	G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←G-/Y	←G-/Y	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	←G-/G	←G-/G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	R	←G-/Y	←G-/Y	G	G	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	←G-/G	←G-/G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	←G-/G	←G-/G	G
4 CHANGE	R	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	FL/R

WIRING DIAGRAM



WIRING KEY

A,B,C,D	-	MICROLOOP PROBE LEAD-IN CABLE
a,b,c,d	-	VIDEO DETECTION LEAD-IN CABLE
I/C-1, I/C-2	-	EXISTING INTERCONNECT CABLE
EX	-	EXISTING SIGNAL CABLE

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 40 (PULASKI HWY) AT WHITEHALL RD

ELKTON, MD

GENERAL INFORMATION SHEET

PARSONS BRINCKERHOFF
100 S. Charles Street
Tower 1, 10th Floor
Baltimore, MD 21201
(Ph) 410-787-5050 / (Fax) 410-727-4608
http://www.pbworld.com

SCALE N.T.S.	DATE 03-07-2012	CONTRACT NO. XX6615185	
DESIGNED BY MAW		COUNTY CECIL	
DRAWN BY MAW		LOGMILE 07004015.32	
CHECKED BY MF		TIMS NO. L198	
F.A.P. NO.		TOD NO.	
TS NO.2259F-GI	DRAWING SG-02 OF 02	SHEET NO. 04 OF 08	

PLOTTED: Monday, March 05, 2012 AT 11:26 AM
FILE: T:\173124A-TrafficDesignServices\TRF\67\Plans\pSG-N001_Whitehall.dgn
BY: wagnerm