

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 15/ US 340 AND THE RAMP FROM US 15 SOUTHBOUND WITH OPTICALLY PROGRAMMED SIGNAL HEADS FOR THE US 340 EASTBOUND APPROACH AND UPGRADING ALL OTHER SIGNAL HEADS TO LED.  
THE US 15/US 340 AND THE RAMP FROM US 15 SOUTHBOUND INTERSECTION IS LOCATED IN FREDERICK COUNTY, MARYLAND. US 340 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JOHN CONCANNON  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 624-8140

MS. SUSAN PALMER  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301) 624-8105

MS. ANDREA ABEND  
DISTRICT UTILITY ENGINEER  
PHONE: (301) 624-8115

MR. ROBERT SYNDER  
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (443) 572-5229

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

**EQUIPMENT LIST "B"**

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

ITEM NO.	QUANTITY	EACH	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
8016	21	EA	LED SIGNAL HEAD MODULES (ANY SIZE)
<b>3000</b>	<b>2</b>	<b>EA</b>	OPTICALLY PROGRAMMABLE SIGNAL HEAD - <b>3 5/8" Cr 100</b>

**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-02 (SHOULDER WORK, DIVIDED HIGHWAY, =<40 MPH)  
STANDARD NO. MD-104.04-04 (LEFT LANE CLOSURE, DIVIDED HIGHWAY, =<40 MPH)  
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE, DIVIDED HIGHWAY, =<40 MPH)

**PHASE CHART**



1	2	3	4	5	6	7	8	9
(R)								
(Y)								
(G)								

PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	←
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	←
PHASE 4	R	R	R	R	R	R	G	G	G	→
PHASE 4 CHANGE	R	R	R	R	R	R	Y	Y	Y	→
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	↕

TOD NO: XX650-15  
SHA NO: FR122B52  
US 15 @ US 340



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 15 at US 340  
Frederick, MD

**GENERAL INFORMATION SHEET**

SCALE	N.T.S.	DATE	03/13/2012	CONTRACT NO.	XX6505185
DESIGNED BY	J.D.C.	COUNTY	FREDERICK		
DRAWN BY	J.D.C.	LOGMILE	10001511.87		
CHECKED BY	N.M.L.	TMS NO.	L289		
F.A.P. NO.		TOD NO.			
TS NO. 4142A	DRAWING TSP	2 OF 2	SHEET NO.	2 OF 2	



WHITMAN, REQUARDT & ASSOCIATES, LLP  
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