

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW SIGNAL AT MD 715 AND CIRELLI COURT DUE TO MD 715 WIDENING IN HARFORD COUNTY. THE SIGNAL WILL BE CONSTRUCTED DURING MOT STAGE 4 AND OPERATIONAL AT THE END OF THAT STAGE. MD 715 IS ASSUMED TO OPERATE IN A NORTH - SOUTH DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION IS TO OPERATE IN A NEMA THREE-PHASE, FULLY-ACTUATED MODE. MD 715 NORTHBOUND AND SOUTHBOUND WILL OPERATE CONCURRENTLY. CIRELLI COURT SHALL OPERATE SEPARATELY.

NOTES

- FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE; OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ADMINISTRATION STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- DISCONNECTING AND SPlicing OF INTERCONNECT CABLE SHALL BE PERFORMED BY SHA FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. CONTACT MR. ED RODENHIZER AT (410) 787-7650 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
- UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

CONTACTS

DISTRICT	OFFICE OF TRAFFIC AND SAFETY
MR. DAVE PEAKE DISTRICT ENGINEER PHONE: (410) 229-2310	MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MS. ERIN KUHN ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 229-2381	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. MIKE PASQUARIELLO DISTRICT ENGINEER - UTILITIES PHONE: (410) 229-2341	MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650
MR. JESSE FREE ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 229-2421	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670
MR. ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 229-2361	MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CAT CODE	QUANTITY	DESCRIPTION
900000	1 EA	NEMA SIZE S. EIGHT PHASE (FULLY ACTUATED CONTROLLER AND BASE MOUNTED CABINET) WITH VIDEO INTERFACE EQUIPMENT FOR 1 TO 8 CAMERAS. WITH AN UNINTERRUPTED POWER SUPPLY TO BE PROVIDED BY SHA.
963010	1 EA	4-CHANNEL RACK MOUNTED AMPLIFIER
973023	89 S.F.	SHEET ALUMINUM SIGNS
	1 EA	M1-5(4) SIGN 78"x36"
	4 EA	D3-1 SIGN 96"x16"
	2 EA	W3-3 SIGN 36"x36"
	2 EA	W16-14(1) SIGN 24"x24"

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

CAT CODE	QUANTITY	DESCRIPTION
585625	105 L.F.	FURNISH AND INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
120500	L.S.	MAINTENANCE OF TRAFFIC
203030	2 C.Y.	TEST PIT EXCAVATION
837001	7 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH.
860284	18 EA.	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR TRAFFIC SIGNAL HEAD SECTION BLACK FACED
811001	10 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
800000	1 EA.	FURNISH AND INSTALL VIDEO CAMERA WITH CABLE.
801004	9 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
818036	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE WITH A SINGLE 50 FT MAST ARM
807202	1 EA.	FURNISH AND INSTALL METERED SERVICE PEDESTAL.
818051	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE WITH A TWIN 50 FT AND 70 FT MAST ARMS
871202	1 EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNTED

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

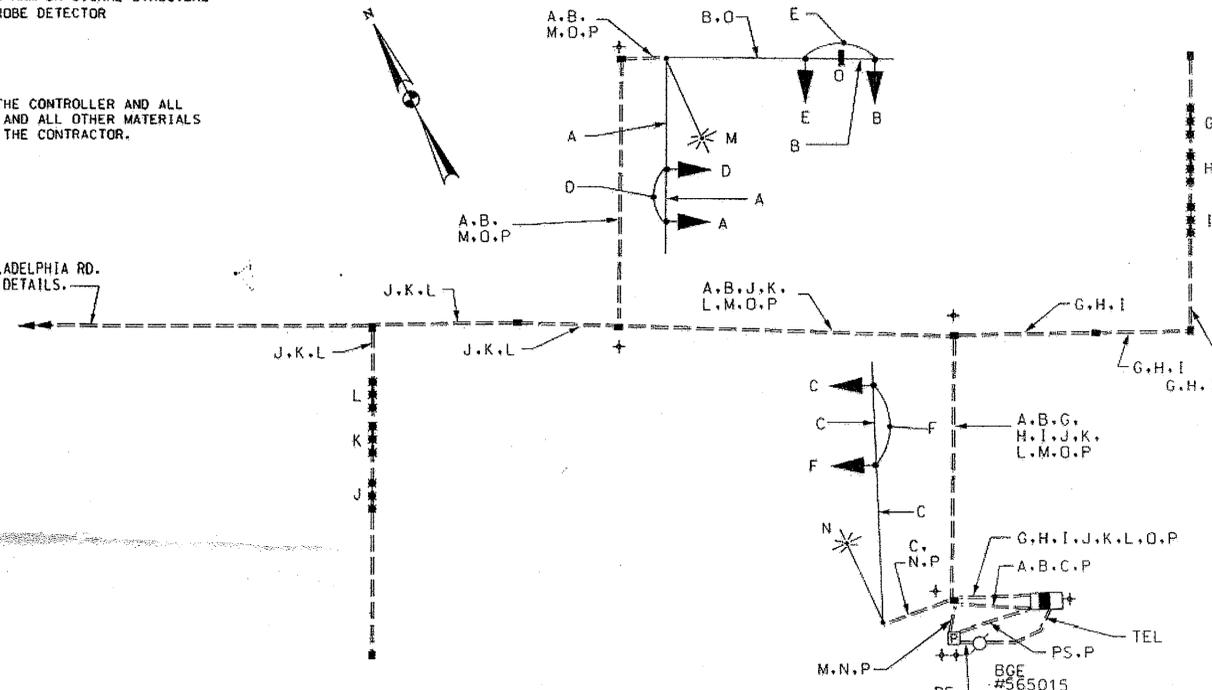
CAT CODE	QUANTITY	DESCRIPTION
813015	63 S.F.	INSTALL OVERHEAD SIGN.
801607	26 S.F.	INSTALL SHEET ALUMINUM SIGN.
801106	76 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" X 6".
805125	20 L.F.	FURNISH AND INSTALL 2 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED.
805135	350 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED.
805115	140 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED.
805140	350 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED.
805118	230 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED.
861116	400 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG).
861107	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG).
861108	820 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG).
802501	300 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG).
861102	90 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 3-WIRE 1 CONDUCTOR NO. 8 AWG
831010	2 EA.	FURNISH AND INSTALL 250 WATT HPS LAMP AND LUMINAIRE
866104	2 EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
810605	6 EA.	FURNISH AND INSTALL NON INVASIVE PROBE DETECTOR 1,000 FT LEAD-IN WIRE.

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6
(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 2 AND 6	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	G	G
4 CHANGE	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

INTERCONNECT CONDUIT TO OLD PHILADELPHIA RD. REFER TO INTERCONNECT PLANS FOR DETAILS.



WIRING DIAGRAM

KEY

- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } NON - INVASIVE PROBE LEAD-IN CABLES
- D } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
- E } VIDEO DETECTION CABLE
- F } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- PS } POWER SERVICE UNDERGROUND 3-WIRE 1 CONDUCTOR (NO. 8 AWG)
- PF } POWER FEED BY OTHERS
- TEL } TELEPHONE DROP
- + } GROUND ROD

SNA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 715 (SHORT LANE) AT CIRELLI COURT
ABERDEEN, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE	DATE MAY 8, 2012	CONTRACT NO. HA2705171
DESIGNED BY CGM	COUNTY HARFORD	
DRAWN BY CGM	LOGMILE 12071500.65	
CHECKED BY GAB	TMS NO. K307	
FAP NO. SEE TITLE SHEET	TOD NO.	
TS NO. 4818	SG - 18 OF 22	SHEET NO. 19 OF 23

