

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm pole Traffic Control Signal at the intersection of MD 482 (Hampstead Mexico Road) and Panther Drive in Carroll County due to the construction of MD 30 Relocated (Hampstead Bypass). MD 482 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four (4) phase, full-traffic-actuated mode, with the MD 482 (Hampstead Mexico Road) through movements operating concurrently. An Exclusive/Permissive (E/P) left turn phase shall continue to be provided for the westbound approach of MD 482. The E/P phase shall operate as a leading phase. The Panther Drive approach shall continue to operate alone.
- A new NEMA eight-phase, full-actuated controller housed in a base-mounted size '6' cabinet shall be installed at this location.
- Video camera presence detection shall be provided for the northbound Panther Drive and westbound MD 482 approaches.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- 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.
- Maintenance of Traffic Phases 1 and 2 consist only of adjusting video detection zones, relocating traffic signal heads/signs and relocating non-invasive probes; therefore, separate General Information drawings are not provided for these phases. Quantities for these phases are provided on this sheet.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR.

800000	1 EA	NEMA CONTROLLER ASC II2000, SIZE '6' BASE-MOUNTED CABINET
801605	40 SF	SHEET ALUMINUM SIGNS - MAST ARM MOUNTED
	1 EA	D-3(I) "PANTHER DR" (VAR. x 16")
	1 EA	D-3(I) "HAMPSTEAD MEXICO RD" (VAR. x 16")
	1 EA	ASSOCIATED SHIELD ASSEMBLY (45" x 75")
816015	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT

EQUIPMENT LIST "B"

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

CATEGORY CODE	QUANTITY	DESCRIPTION
MOT PRE-PHASE		
203030	2 CY	TEST PIT EXCAVATION
801004	5 CY	CONCRETE FOR SIGNAL FOUNDATION
801607	37 SF	INSTALL SHEET ALUMINUM SIGN
802501	250 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805105	135 LF	2-IN. PVC SCH. 80 ELECTRICAL CONDUIT-BORED
805115	140 LF	3-IN. PVC SCH. 80 ELECTRICAL CONDUIT-BORED
805118	300 LF	4-IN. PVC SCH. 80 ELECTRICAL CONDUIT-BORED
805125	25 LF	2-IN. PVC SCH. 80 ELECTRICAL CONDUIT-TRENCHED
805135	490 LF	3-IN. PVC SCH. 80 ELECTRICAL CONDUIT-TRENCHED
805140	15 LF	4-IN. PVC SCH. 80 ELECTRICAL CONDUIT-TRENCHED
807202	1 EA	METERED SERVICE PEDESTAL
810601	2 EA	NON-INVASIVE DETECTOR, 500 FT. LEAD-IN CABLE
811001	8 EA	ELECTRICAL HANDHOLE
811002	8 EA	REMOVE ELECTRICAL HANDHOLE
816001	2 EA	VIDEO DETECTION CAMERA
816005	2 EA	CONTROL CABLE, 250 FT., VIDEO DETECTION CAMERA TO CONTROLLER
800000	1 EA	STEEL 15' *T* POLE WITH TWIN 50'/60' MAST ARMS
837001	6 EA	GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
800000	3 EA	8 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860284	25 EA	12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	55 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	940 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	230 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
871117	1 EA	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
800000	LS	REMOVE AND DISPOSE EXISTING EQUIPMENT
MOT PHASE 1		
100000	1 EA	ADJUST VIDEO DETECTION ZONE
100000	1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
100000	2 EA	RELOCATE EXISTING NON-INVASIVE PROBE
120773	7 SF	RELOCATE SIGN
860265	2 EA	RELOCATE EXISTING SIGNAL HEAD
MOT PHASE 2		
100000	1 EA	RELOCATE EXISTING NON-INVASIVE PROBE

PHASING

	1	2	3	4	5	6	7	8
PHASE 2 & 5	R	R	R	G	G	G	R	R
2 & 5 CHANGE	R	R	R	G	G	G	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R
6 CHANGE	Y	Y	Y	Y	Y	Y	R	R
PHASE 8	R	R	R	R	R	R	G	G
8 CHANGE	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

CONTACT LIST

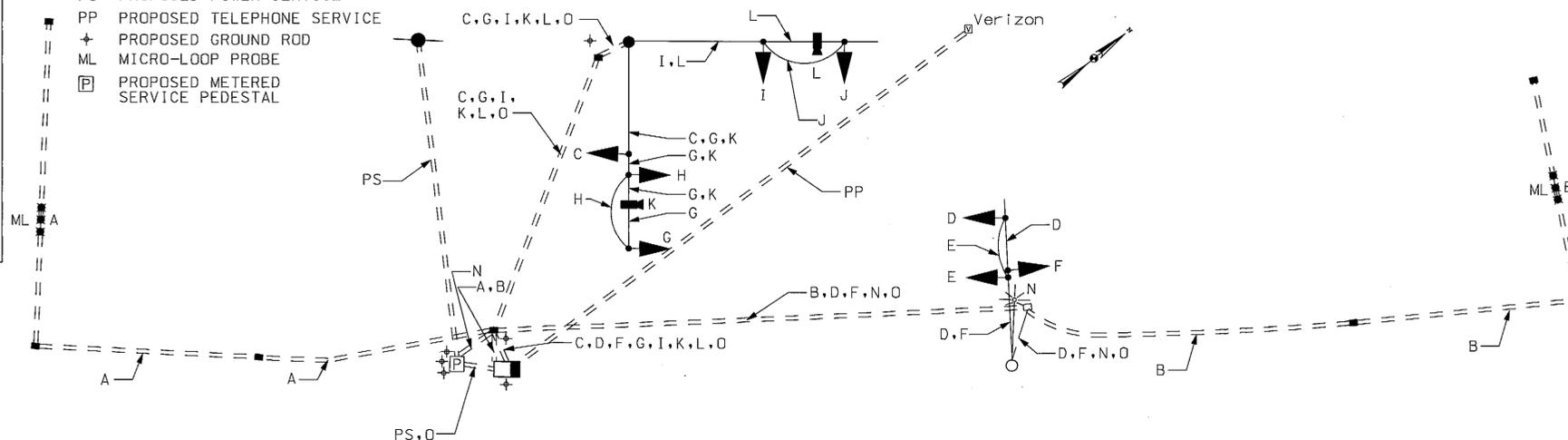
The contact persons for District #7 are as follows:

- Mr. John Concannon
Assistant District Engineer-Traffic
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- Ms. Andrea Abend
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- Mr. Eric Eckhardt
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- Mr. Richard L. Daff
Chief, Traffic Operations Division
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- Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
410-787-7650
- The Power Company Representative is:
Baltimore Gas and Electric Company
Mr. Bernie Thuman
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- The Project Manager for MD 30 Relocated is:
Corman Construction, Inc.
Mr. Scott Szympruch
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KEY

- A } MICRO-LOOP DETECTOR
- B } LEAD-IN CABLE
- E } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- I } VIDEO DETECTION CAMERA
- L } LEAD-IN CABLE
- N } 2-CONDUCTOR TRAY CABLE (NO. 12 AWG)
- O } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- PS } PROPOSED POWER SERVICE
- PP } PROPOSED TELEPHONE SERVICE
- + } PROPOSED GROUND ROD
- ML } MICRO-LOOP PROBE
- Ⓜ } PROPOSED METERED SERVICE PEDESTAL

PRE-PHASE WIRING DIAGRAM



EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

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.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 30 RELOCATED
FROM SOUTH OF WOLF HILL DRIVE TO NORTH OF HAMPSTEAD
MD 482 (HAMPSTEAD MEXICO RD) AND PANTHER DRIVE

TRAFFIC SIGNAL-GENERAL INFORMATION

SCALE NONE DATE 08/2007 CONTRACT NO. CL4166370

DESIGNED BY DSU COUNTY CARROLL
DRAWN BY JEH LOGMILE 06048204.95
CHECKED BY DSU T.I.M.S. NO. F407
F.A.P. NO. AC2HP-2821(001)NAC-NH-107-1(0)N TOD NO.

TS NO. 4197B-GI DRAWING SG-11 OF 19 SHEET NO. 23 OF 82