

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNALS (CPS) AND ACCESSIBLE PEDESTRIAN SIGNALS (APS) AT THE INTERSECTION OF MD 197 (COLLINGTON ROAD) AT TOWN CENTER BLVD. IN PRINCE GEORGES COUNTY.

MD 197 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

**NORMAL OPERATION**

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX PHASE, FULL-TRAFFIC ACTUATED MODE, WITH THE MD 197 APPROACHES RUNNING CONCURRENTLY. THE TOWN CENTER BLVD. APPROACHES HAVE SPLIT PHASING. THE NORTHBOUND APPROACH ALONG TOWN CENTER BLVD. IS PROVIDED WITH A RIGHT TURN OVERLAP PHASE.

THE EASTBOUND AND WESTBOUND LEFT TURN MOVEMENTS ALONG MD 197 HAVE PROTECTED LEFT TURN PHASING.

**PEDESTRIAN OPERATION**

NAVIGATOR ACCESSIBLE PEDESTRIAN PUSHBUTTON MOVEMENTS TO CROSS THE NORTH, SOUTH, AND WEST LEGS OF THE INTERSECTION ARE TO BE PROVIDED.

**PROJECT CONTACTS**

MR. BRYAN YOUNG  
ASSISTANT DISTRICT ENGINEER  
TRAFFIC  
PHONE: 301-513-7409

MR. AUGIE REBISH  
ASSISTANT DISTRICT ENGINEER  
UTILITY  
PHONE: 301-513-7350

MR. VERNON STINNETT  
ASSISTANT DISTRICT ENGINEER  
MAINTENANCE  
PHONE: 301-513-7304

MR. ED RODENHIZER  
CHIEF, SHA TRAFFIC SIGNAL SHOP  
PHONE: 410-787-7652

MR. EUGENE BAILEY  
CHIEF, SIGN SHOP  
PHONE: 410-787-7670

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

**EQUIPMENT LIST "A"**

EQUIPMENT TO BE SUPPLIED BY THE SHA.

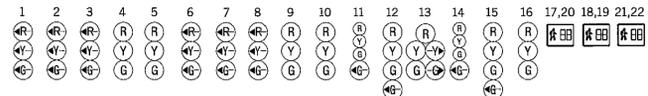
ITEM NO.	QUANTITY	DESCRIPTION
9571	7 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS
	6 EA	R10-3(1) "PUSH BUTTON TO CROSS" (WITH INSTRUCTIONS) (9" X 15")
9572	7 SF	SHEET ALUMINUM SPAN MOUNTED SIGNS
	1 EA	R3-5(R) (30" X 30")

**EQUIPMENT LIST "B"**

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
1002	1643 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
2002	2 CY	TEST PIT EXCAVATION
5002	270 LF	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	80 LF	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
6001	120 LF	DEPRESSED CURB AND GUTTER
6002	1350 SF	5" CONCRETE SIDEWALK
8003	1 EA	2 WIRE CENTRAL CONTROL UNIT
8009	1 EA	ADJUST HANDHOLE TO GRADE

**PHASING SEQUENCE CHART**



PHASE 1 & 5	+G	+G	+G	R	R	+G	+G	+G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW
1 & 5 CHANGE TO PHASE 1 & 6 OR PHASE 2 & 5 OR PHASE 2 & 6																					
PHASE 1 & 6	+G	+G	+G	G	G	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	DW	WALK	DW
1 CHANGE	+Y	+Y	+Y	G	G	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	DW	WALK	DW
PHASE 2 & 5	+R	+R	+R	R	R	+G	+G	+G	G	G	R	R	R	R	R	R	R	R	WALK	DW	DW
5 CHANGE	+R	+R	+R	R	R	+Y	+Y	+Y	G	G	R	R	R	R	R	R	R	R	WALK	DW	DW
PHASE 2 & 6	+R	+R	+R	G	G	+R	+R	+R	G	G	R	R	R	R	R	R	R	R	WALK	WALK	DW
PED. CLEAR	+R	+R	+R	G	G	+R	+R	+R	G	G	R	R	R	R	R	R	R	R	FLDW	FLDW	DW
2 & 6 CHANGE	+R	+R	+R	Y	Y	+R	+R	+R	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW
PHASE 3	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	G	G	DW
3 CHANGE	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	Y	Y	DW
PHASE ALT. 3	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	G	G	DW
PED. CLEAR	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	G	G	DW
PHASE ALT. 3 CHANGE	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	Y	Y	DW
PHASE 4	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	G	G	DW
4 CHANGE	+R	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW
FLASHING OPERATION	FL	DARK	DARK	DARK																	

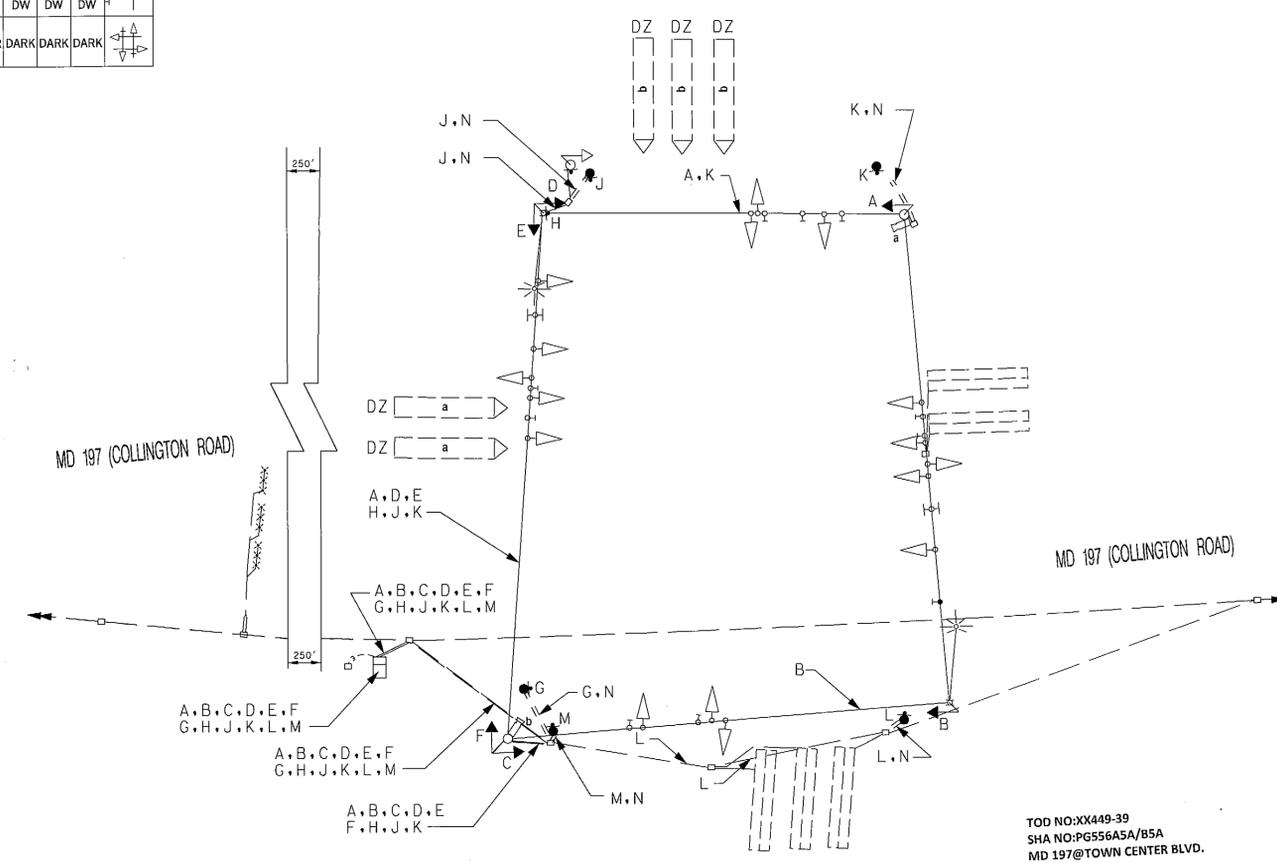
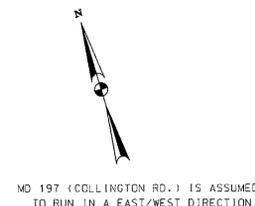
**WIRING DIAGRAM**

NOT TO SCALE

**WIRING KEY**

- A } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- K } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- L } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

- N } STRANDED BARE COPPER GROUND WIRE (#6 AWG)
- DZ } DETECTION ZONE



**EQUIPMENT LIST "B" CONT'D**

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	DESCRIPTION
8010	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS (5"X7" WITH BRAILLE DENOTING CROSSING STREET)
8011	5 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE) 5 NO. - 5' BREAKAWAY PEDESTAL POLE
8014	6 EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8016	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8027	75 LF	3" PVC SCHEDULE 80 CONDUIT - TRENCHED
8028	150 SF	DETECTABLE WARNING SURFACES
8033	95 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8055	1650 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	1550 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

TOD NO:XX449-39  
SHA NO:PG556A5A/B5A  
MD 197@TOWN CENTER BLVD.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 197 (COLLINGTON ROAD) AT TOWN CENTER BLVD.  
BOWIE, MD

**GENERAL INFORMATION SHEET**

SCALE	NTS	ADVERTISED DATE	June 2009	CONTRACT NO.	XX4495185
DESIGNED BY	HAIKUN DONG	COUNTY	Prince George's		
DRAWN BY	WARREN HENRY	LOGMILE	16019701.00		
CHECKED BY		TIMS NO.	I-819		
F.A.P. NO.	NA	TOD NO.			

DRAWING NO. 4079A **TS-2** OF 2 SHEET NO. 2 OF 2

**Edwards and Kelcey**  
100 South Charles Street  
Tower 2, Suite 1000  
Baltimore, Maryland 21201  
410-337-5840

BY: henryad