

MD 272 RUNS IN A NORTH-SOUTH DIRECTION.

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW CONTROL PERSON SIGNAL (FLAG IN THE AIR) AT THE INTERSECTION OF MD 272 AND IRISHTOWN ROAD IN CECIL COUNTY. MD 272 IS ASSUMED TO RUN IN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

1. NORMAL OPERATION: THE SIGNAL WILL OPERATE IN A FLASHING MODE.
2. SPECIAL OPERATION: THE INTERSECTION WILL OPERATE AS INDICATED ABOVE, UNLESS A PUSHBUTTON IS ACTIVATED BY THE POINT CONTROL PERSON WHICH WILL STOP THE MD 272 NORTHBOUND APPROACH.

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

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ASSISTANT DISTRICT ENGINEER - TRAFFIC
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CHIEF, TRAFFIC OPERATIONS DIVISION
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MR. TERRY D. WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250

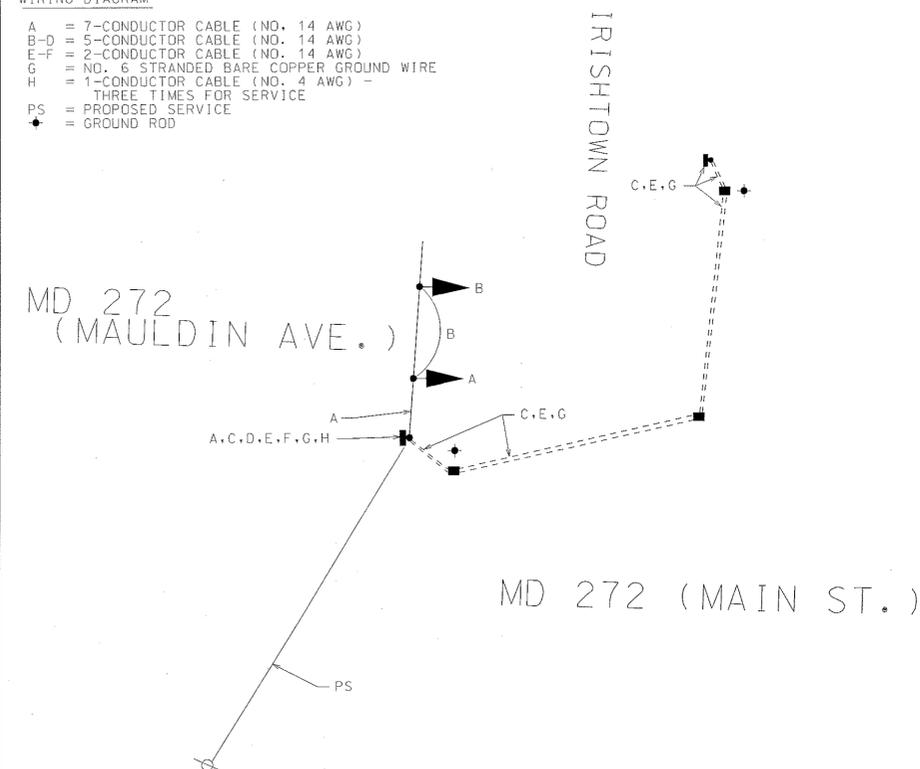
MR. ROBERT SNYDER
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MR. BARRY CLOTHIER
ASSISTANT DISTRICT ENGINEER - UTILITIES
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CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

WIRING DIAGRAM

- A = 7-CONDUCTOR CABLE (NO. 14 AWG)
- B-D = 5-CONDUCTOR CABLE (NO. 14 AWG)
- E-F = 2-CONDUCTOR CABLE (NO. 14 AWG)
- G = NO. 6 STRANDED BARE COPPER GROUND WIRE
- H = 1-CONDUCTOR CABLE (NO. 4 AWG) - THREE TIMES FOR SERVICE
- PS = PROPOSED SERVICE
- ◆ = GROUND ROD



EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	1 EACH	EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER AND INTERSECTION MONITOR WITH BATTERY BACKUP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET
*	2 EACH	PUSHBUTTON AND SIGNAL INDICATION FOR POINT CONTROL PERSON IN THE POLE MOUNTED CONTROLLER CABINET, AND THE AUXILIARY CABINET
	21.3 S.F.	1 EACH D3-2 SIGN, "IRISHTOWN RD (RIGHT ARROW)", 16" x Var., MAST ARM MOUNTED HARDWARE
	1 EACH	D3-2 SIGN, "(LEFT ARROW) IRISHTOWN RD", 16" x Var., MAST ARM MOUNTED HARDWARE

* - THE SHA SIGNAL SHOP IS TO INSTALL A PUSHBUTTON AND SIGNAL INDICATION IN THE POLICE PANEL OF THE POLE MOUNTED CONTROLLER CABINET, AND THE AUXILIARY FLASHER CABINET

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	CLASS 2 EXCAVATION
2002	1 C.Y.	TEST PIT EXCAVATION
5004	410 L.F.	F & I 12" WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING TAPE
5005	45 L.F.	F & I 24" WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING TAPE
5008	390 L.F.	REMOVAL OF EXISTING PAVEMENT MARKINGS - ANY WIDTH
6004	385 S.F.	F & I 4" CONCRETE SIDEWALK
8006	1 EACH	CUT, CLEAN, & CAP TRAFFIC SIGNAL STRUCTURE
8011	4 EACH	F & I 12" BLACK FACED VEHICULAR SIGNAL HEAD SECTION
8019	2 EACH	F & I 8" BLACK FACED VEHICULAR SIGNAL HEAD SECTION
8022	1 EACH	F & I CONTROL AND DISTRIBUTION
8022	1 EACH	F & I 27' MAST ARM POLE & 90' MAST ARM
8030	1 EACH	F & I 10' PEDESTAL POLE AND BASE
8048	1 EACH	REMOVE AND DISPOSE OF EXISTING EQUIPMENT PER ASSIGNMENT
8051	35 L.F.	F & I 4" PVC SCHEDULE 80 CONDUIT - TRENCHED
8052	120 L.F.	F & I 4" PVC SCHEDULE 80 CONDUIT - BORED
8057	4.5 C.Y.	F & I CONCRETE FOR SIGNAL FOUNDATION
8060	180 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8070	45 L.F.	F & I ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG) - THIN/THWN
8075	21.3 S.F.	INSTALL OVERHEAD SIGN
8080	2 EACH	F & I GROUND ROD - 3/4" x 10'
8082	180 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (NO. 14 AWG)
8084	210 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8085	35 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8091	10 L.F.	F & I 2" PVC SCHEDULE 80 CONDUIT - TRENCHED
8092	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
NEG.	30 L.F.	F & I 1 1/2" PVC CONDUIT RISER
NEG.	1 EACH	F & I 1 1/2" WEATHERHEAD
NEG.	1 EACH	F & I AUXILIARY FLASHER CABINET - (14.38" (H) x 10.38" (W) x 7" (D))

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
		ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

NOTE:

AUXILIARY CABINET SHALL BE A NEMA 3R-4X SMALL SINGLE DOOR ENCLOSURE WITH A LOCK NOT OPENED BY A STANDARD NO. 2 KEY. CONTRACTOR SHALL DELIVER AUXILIARY CABINET TO SHA SIGNAL SHOP FOR MODIFICATION PRIOR TO INSTALLING.

PHASE CHART

	1	2	
	(R)	(R)	
	(Y)	(Y)	
	(G)	(G)	
NORMAL OPERATION	8' FL/Y	8' FL/Y	← →
SPECIAL OPERATION	QUICK 8' FL/Y	QUICK 8' FL/Y	+
	12' Y	12' Y	
	R	R	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 272 and Irishtown Road
NORTHEAST, MARYLAND

DRAWN BY: <i>W. Malen</i>	F.A.P. NO. AC-STPC-0205(785)E	T.S. NO. TS-4145	SHEET NO.
CHECKED BY:	S.H.A. NO. CE442A53/853	T.I.M.S. NO. E839	2 OF 2
SCALE: NOT TO SCALE	COUNTY: CECIL	LOG MILE: 07027210.94	
DATE: 04/2002			