DRILL HOLES

BORDER REV. DATE: June 1, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 5 (Branch Avenue) and MD 381 (Brandywine Road) in Prince George's County, Maryland. MD 5 is considered to run in a north/south direction.

Modifications include:
Relocate handholes, re-cut loops on MD 381 eastbound and westbound.
Reconfigure eastbound MD 381 to a shared left/thru lane and a right turn lane.
Reconfigure westbound MD 381 to a shared left/thru lane and a right turn lane.

II. INTERSECTION OPERATION

The intersection operation to remain unchanged.
Existing cabinet and controlled to be utilized.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	813	30 in. x 36 in. R 3-6(L) sign with span wire mounting hardware.
3	EA	---	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
3	EA	811	Handhole.
334	LF	815	Sawcut for signal loop detector.
1296	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
165	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
15	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
255	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
35	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
40	LF	549	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	Relocate existing sign.
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

CONTACT LIST

The contact persons for District #3 are as follows:

PG - Mr. Brian Young
Assistant District Engineer - Traffic
PG - 301-513-7358

Mr. Augie Rebish
Assistant District Engineer - Utility
301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

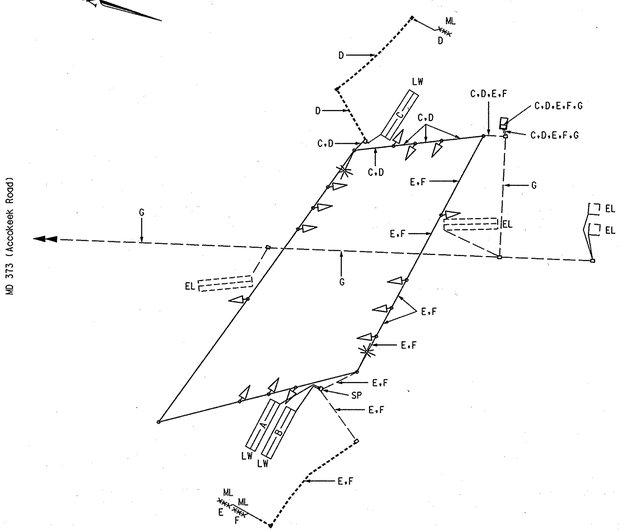
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Mr. Edward Rodenhizer - Signal Operations
Signal Operations Supervisor
410-787-7652

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	DON'T WALK / PEDS	
Phase 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6															
Phase 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	
1 Change	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	
Phase 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
5 Change	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	
Phase 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	
2 & 6 Change	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	
Phase 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	
4 & 8 Change	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	
Flashing Operation	FL/ R	FL/ R	FL/Y	FL/Y	FL/ R	FL/ R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	
Pre-emption	R	R	R	R	R	R	R	R	G	G	G	G	G	G	

Wiring Diagram



A, B, C — 2-Conductor Cable (Aluminum Shielded)

D, E, F — Micro-loop Detector Lead-in Cable

G — 12-Pair Voice Grade Telemetry Interconnect Cable (No. 19 A.W.G.) (MD 381 - MD 373 Run)

LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

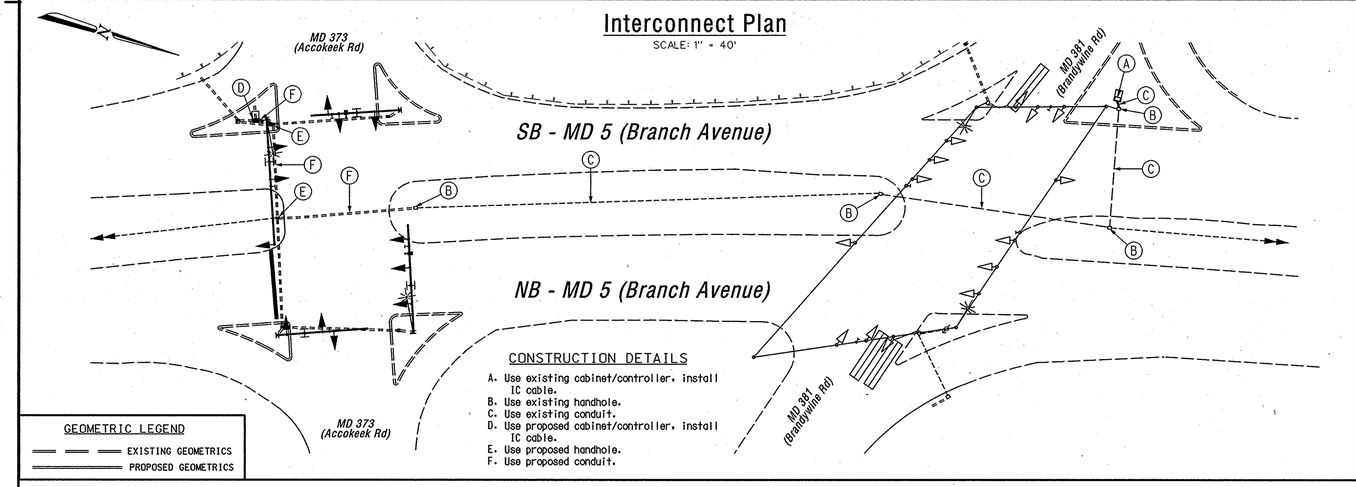
EL — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

ML — Micro-loop Detector

SP — Splice Loop Wire To Existing Aluminum Shielded Cable

Interconnect Plan

SCALE: 1" = 40'



GEOMETRIC LEGEND

EXISTING GEOMETRICS

PROPOSED GEOMETRICS

CONSTRUCTION DETAILS

A. Use existing cabinet/controller, install IC cable.
B. Use existing handhole.
C. Use existing conduit.
D. Use proposed cabinet/controller, install IC cable.
E. Use proposed handhole.
F. Use proposed conduit.

Revision 'E'

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 (BRANCH AVE.) at MD 381 (BRANDYWINE RD.)

GENERAL INFORMATION PLAN

SCALE N/A DATE 11/12/03 CONTRACT NO. BW996M82

DESIGNED BY F. Brownley
DRAWN BY F. Brownley
CHECKED BY
F.A.P. NO. N/A

COUNTY Prince George's
LOGMILE 16000503.11
T.I.M.S. NO. T199
TOD NO.

DRAWING NO. TS 15266-G1

SHEET NO. 2 OF 5

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