

PROJECT DESCRIPTION

I. GENERAL

This project involves the relocation of the existing southbound advance HB for the intersection of US 301 and MD 381 in Prince George's County, Maryland. US 301 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The existing HB is to be relocated to a new foundation approximately 115 feet south of its existing location.

Anchor bolt size and bolt circle dimension to be field verified prior to installation.

The existing pole, signal heads, sign, cabinet/controller, and electrical meter/disconnect are to be utilized.

III. SPECIAL NOTE:

The Contractor shall notify Mr. Robert Snyder of SHA at 410-787-7635 to arrange for a new phone drop installation.

The Contractor is to provide Mr. Snyder with the nearest street number, zip code, and telephone number.

CONTACT LIST

The contact persons for District #3 are as follows:

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

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

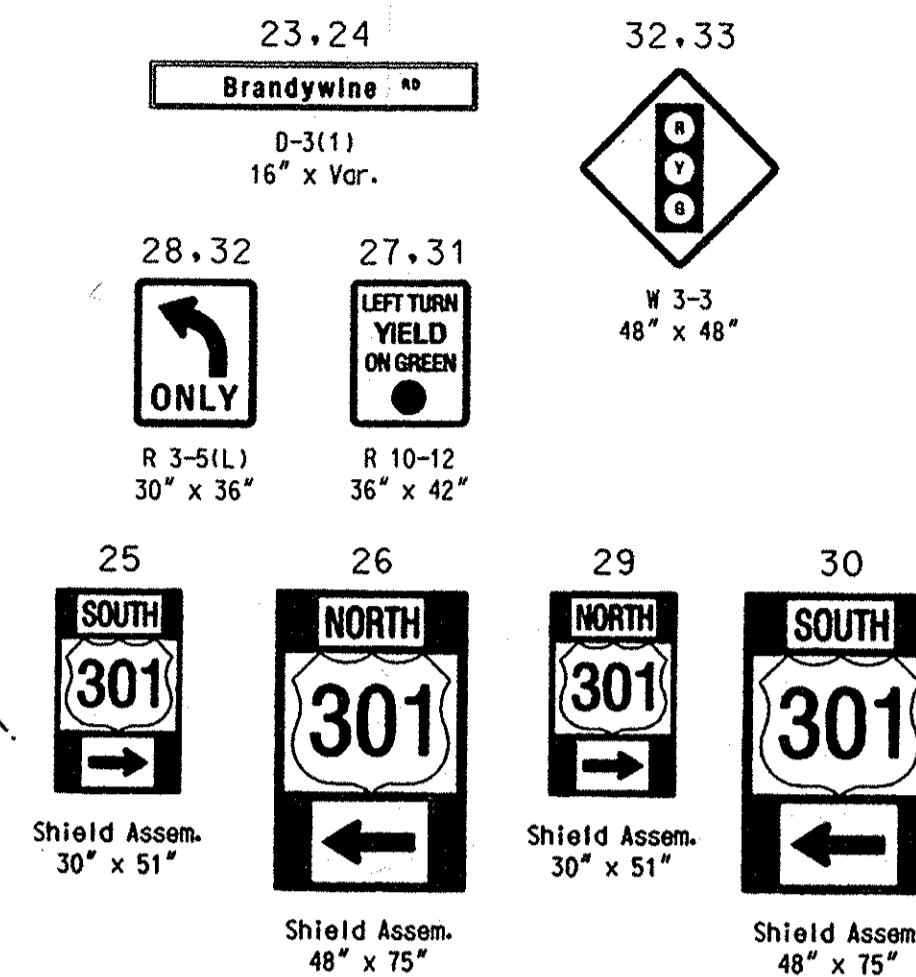
Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

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

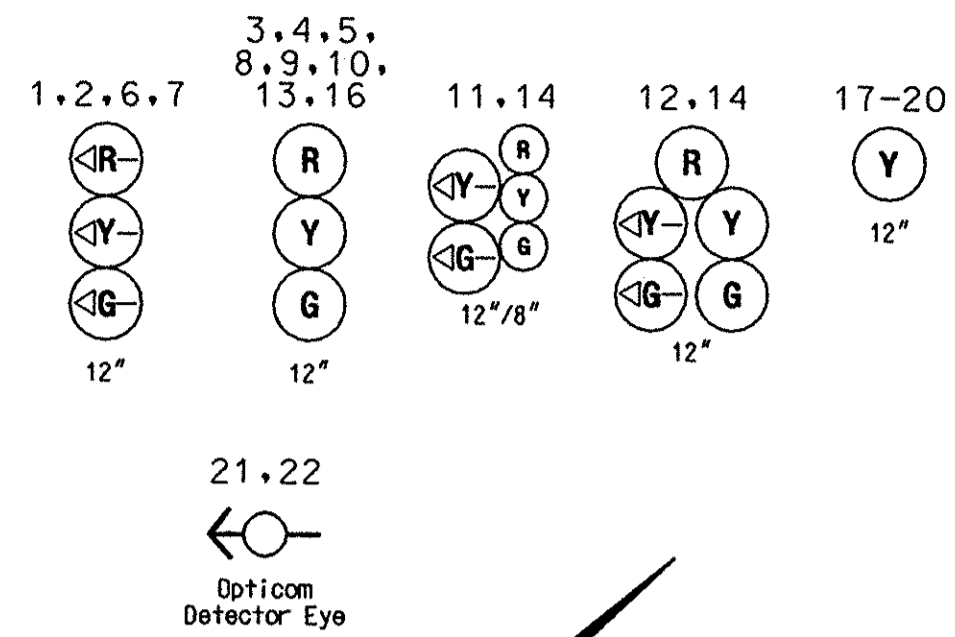
The Power Company Representative is:
SMECO

Mr. Chuck Stone
4415 Crain Highway
White Plains, Maryland 20695
301-705-8686

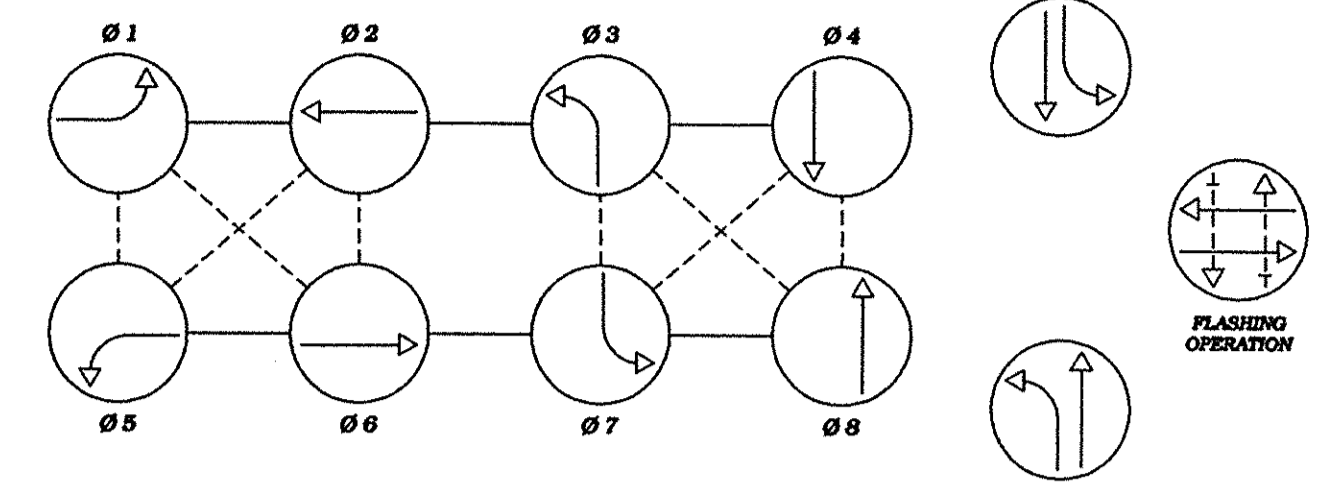
EXISTING SIGNS



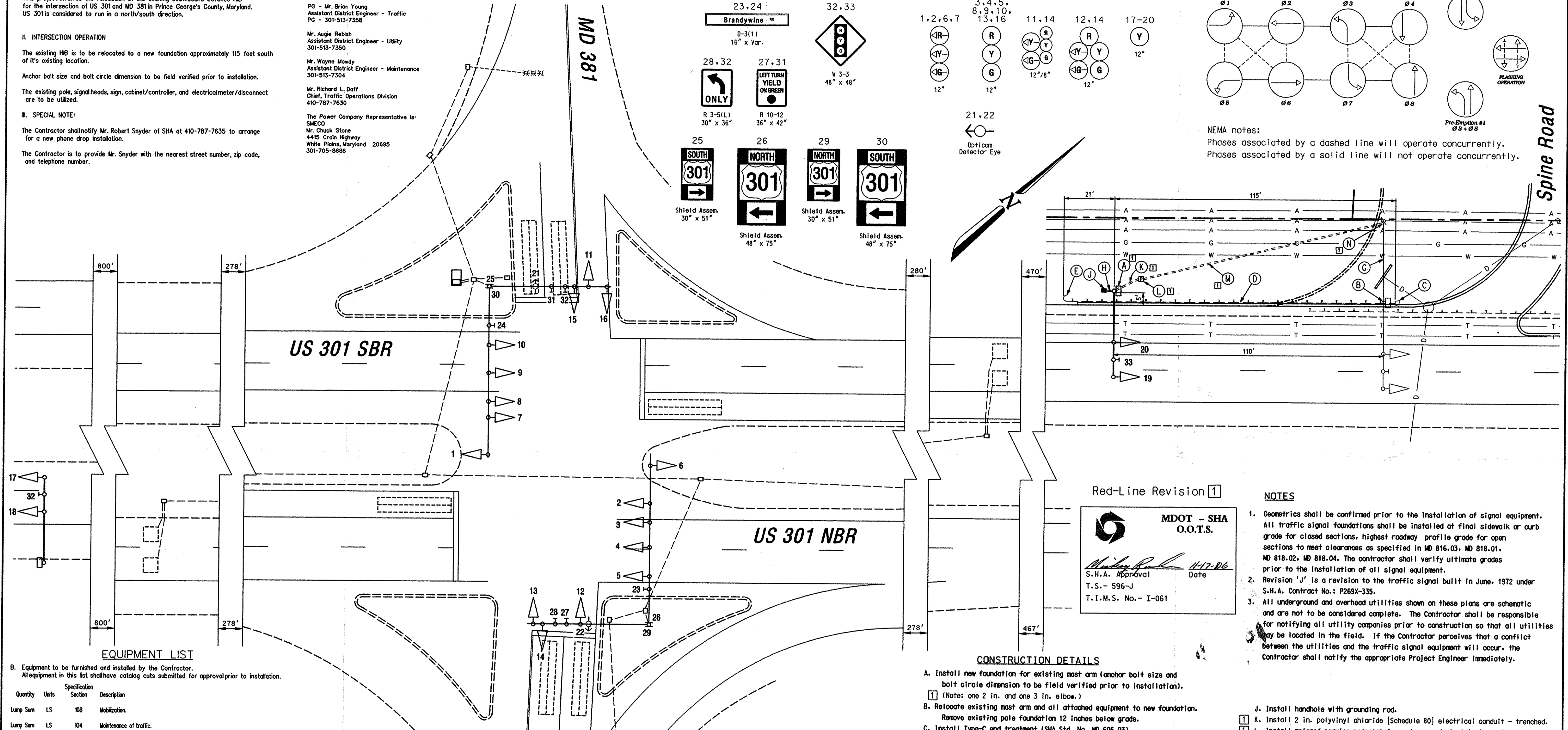
EXISTING SIGNALS



EXISTING NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



EQUIPMENT LIST

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.
4	EA	818	Anchor bolts (size to be field verified prior to installation).
1	CY	205	Test pit excavation.
1	EA	811	Handhole.
10	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
5	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
4	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 1/2 in. diameter x 10 ft. length.
1	EA	---	Remove and dispose of existing concrete foundation 12 inches below grade.
135	LF	605	W-beam traffic barrier (to include posts as required)
1	EA	606	W-beam Type-C end treatment
1	EA	606	W-beam Type-T end treatment
Lump Sum	LS	---	Relocate existing mast arm pole and all attached equipment.
Lump Sum	LS	---	As-built for SHA (on CADD)

Quantity	Units	Specification Section	Description	
1	10	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
1	100	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched with pull string.
1	Lump Sum	LS	807	Electrical metered service pedestal for underground electrical service per MD-SHA Typical 807.05-01. (120/240 V, one phase, three wire 200 Amp system).

Red-Line Revision 1

MDOT - SHA O.O.T.S.

Michael R. ... 11-17-06
S.H.A. Approval Date
T.S. - 596-J
T.I.M.S. No. - I-061

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
2. Revision 'J' is a revision to the traffic signal built in June, 1972 under S.H.A. Contract No.: P269X-335.
3. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

CONSTRUCTION DETAILS

1. Install new foundation for existing mast arm (anchor bolt size and bolt circle dimension to be field verified prior to installation).
1 (Note: one 2 in. and one 3 in. elbow.)
2. Relocate existing mast arm and all attached equipment to new foundation. Remove existing pole foundation 12 inches below grade.
3. Install Type-C end treatment (SHA Std. No. MD 605.03).
4. Install W-beam (SHA Std. No. MD 605.22) and post (SHA Std. No. MD 605.23-01).
5. Install Type-1 end section (SHA Std. No. MD 605.20).
6. Proposed overhead electrical service to be provided by SMECO.
7. Existing overhead electrical service to be removed by SMECO.
8. Install 3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.

9. Install handhole with grounding rod.
10. Install 2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
11. Install metered service pedestal for underground electrical service per MD-SHA Typical 807.05-01.
12. Install 4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched with pull string.
13. Elbow up proposed conduit at base of utility pole. SMECO to make connection and install service cable.

Red-Line Revision 1
11-16-06

<p>GEOMETRIC LEGEND</p> <p>--- EXISTING GEOMETRICS</p> <p>--- PROPOSED GEOMETRICS</p>	<p>UTILITY LEGEND</p> <p>G - GAS MAIN</p> <p>W - WATER MAIN</p> <p>S - SEWER MAIN</p> <p>E - ELECTRIC CABLES</p> <p>D - STORM DRAIN</p> <p>A - AERIAL CABLES</p> <p>T - TELEPHONE CABLES</p>	<p>REVISIONS</p> <p>1 Relocated SB US 301 HIB. S.H.A. No.: B9396M02</p> <p>2 E/P Left Turn Phases for MD 381. S.H.A. No.: AT3565185</p> <p>3 Exclusive Left Turn Phases for US 301. S.H.A. No.: XX1065285</p>	<p>APPROVALS</p> <p>TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>DIRECTOR, TRAFFIC & SAFETY</p>	<p>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</p> <p>Office of Traffic & Safety</p> <p>TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>(Traffic Signal Plan)</p> <p>US 301 at MD 381</p>
		<p>THE TRAFFIC GROUP</p> <p>The Traffic Group, Inc. 410-931-6600 Fax 410-931-6601</p>	<p>DRAWN BY: J. Bober</p> <p>CHECKED BY: ---</p> <p>SCALE: 1" = 20'</p> <p>DATE: June 5, 1972</p>	

1:2008.2008-0320.DESIGN-11-16-06-Red-Line.dwg 11/16/2006