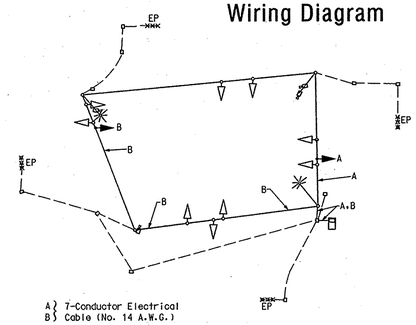
MD 24 is considered to run in a North/South direction.

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11
Phase 1 & 5	R G	R G	R	R G	R G	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	G	R	R	R	R	R	R	R	R
1 Change	G Y	G Y	G	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	G G	G G	G	R	R	R	R	R
5 Change	R	R	R	G Y	G Y	G	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R
Phase 3 & 8	R	R	R	R	R	R	R	R	G G	G G	G
3 Change	R	R	R	R	R	R	R	R	G Y	G Y	G
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

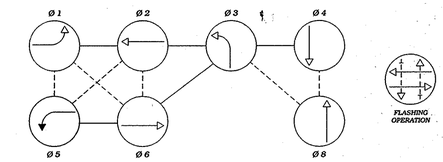
Wiring Diagram



A} 7-Conductor Electrical
B} Cable (No. 14 A.W.G.)

EP — Existing Micro-Loop Detector Probe

EXISTING NEMA PHASING



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

EXISTING SIGNALS

PROPOSED SIGNALS

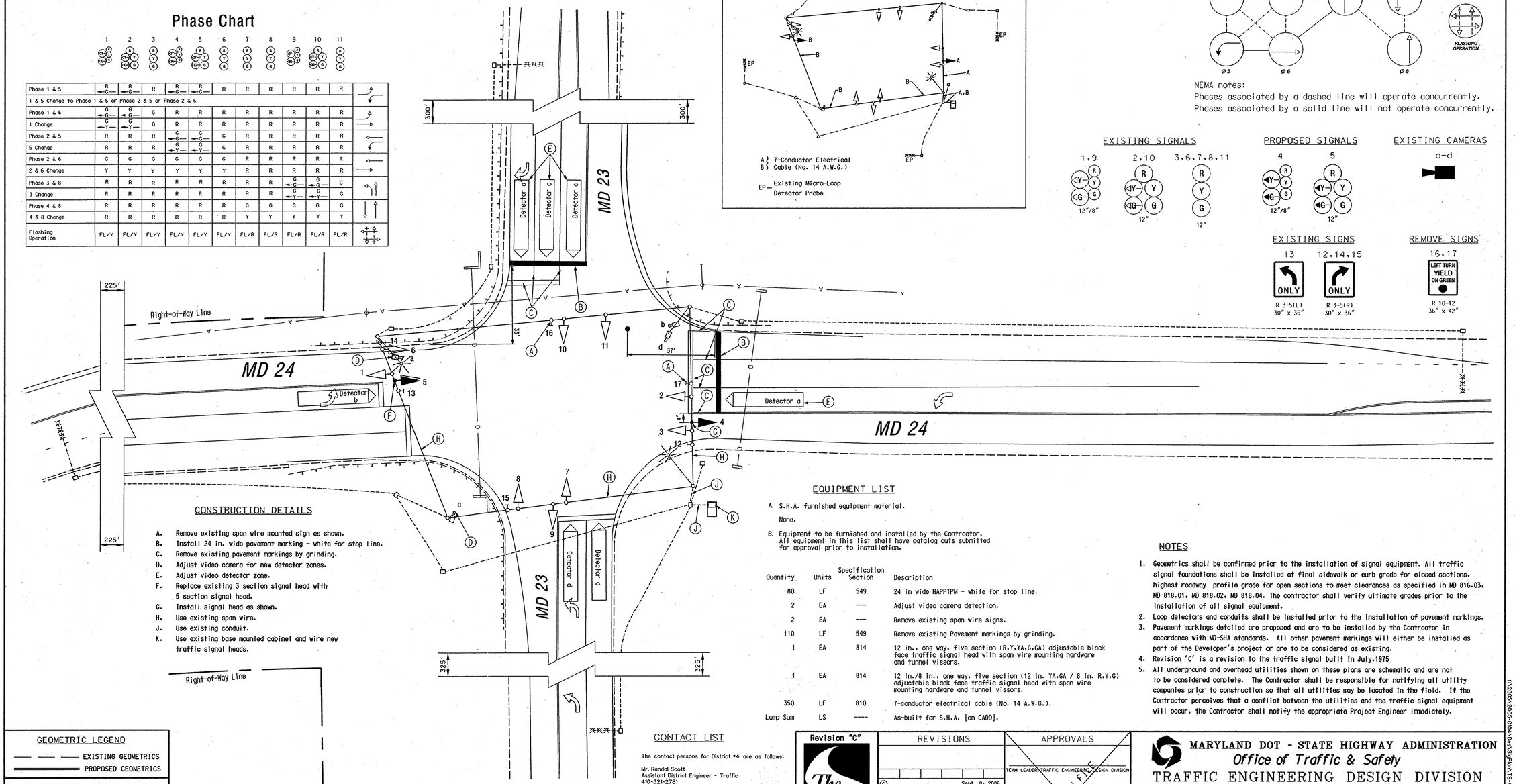
EXISTING CAMERAS

EXISTING SIGNS

R 3-5(L) 30" x 36"
R 3-5(R) 30" x 36"

REMOVE SIGNS

R 10-12 36" x 42"



CONSTRUCTION DETAILS

A. Remove existing span wire mounted sign as shown.
B. Install 24 in. wide pavement marking - white for stop line.
C. Remove existing pavement markings by grinding.
D. Adjust video camera for new detector zones.
E. Adjust video detector zone.
F. Replace existing 3 section signal head with 5 section signal head.
G. Install signal head as shown.
H. Use existing span wire.
J. Use existing conduit.
K. Use existing base mounted cabinet and wire new traffic signal heads.

EQUIPMENT LIST

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

None.

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
80	LF	549	24 in wide HAPPTPM - white for stop line.
2	EA	---	Adjust video camera detection.
2	EA	---	Remove existing span wire signs.
110	LF	549	Remove existing Pavement markings by grinding.
1	EA	814	12 in., one way, five section (R,Y,YA,G,GA) adjustable black face traffic signal head with span wire mounting hardware and tunnel vissors.
1	EA	814	12 in./8 in., one way, five section (12 in. YA,GA / 8 in. R,Y,G) adjuctable black face traffic signal head with span wire mounting hardware and tunnel vissors.
350	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
Lump Sum	LS	----	As-built for S.H.A. [on CADD].

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. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
4. Revision 'C' is a revision to the traffic signal built in July,1975
5. 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.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
D — D	STORM DRAIN
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES

CONTACT LIST

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
410-321-2781

Mr. Mike Pasquariello
Assistant District Engineer - Utility
410-321-3460

Mr. Steve Markiszewski
Assistant District Engineer - Maintenance
410-321-2761

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

Revision "C"

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS		
C	Add left turn lane to Eastbound MD 23 S.H.A. No.:BW996M82	Sept. 8, 2006
FJH		
B	Modifications due to geometric changes	June , 2003
EJH		
A	Modifications... S.H.A. No.:H853-501-467	July 18, 1985
SAR	WJR	

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 24 (Rock Spring Road) at MD 23 (East-West Highway)

DRAWN BY:	WJR	F.A.P. NO.	N/A	TS NO. 109-C	SHEET NO.
CHECKED BY:	SAR	S.H.A. NO.			
SCALE:	1" = 20'	COUNTY:	Harford	T.I.M.S. NO. H-942	1 OF 1
DATE:	July 18, 1975	LOG MILE:	12002301.88		

10/2/2006
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