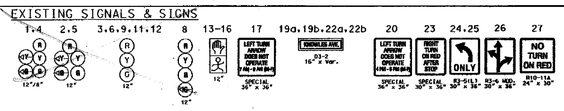
MD 185 RUNS IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNALS & SIGNS

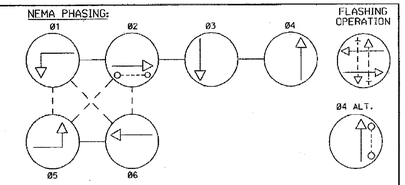


PROPOSED SIGNALS & SIGNS

~~CONSTRUCTION DETAILS~~

~~A. INSTALL THE PROPOSED BLACK FACED SIGNAL HEAD.~~
~~REMOVE THE EXISTING SIGNAL HEAD~~
~~B. INSTALL THE PROPOSED BLACK FACED SIGNAL HEAD.~~
~~C. INSTALL THE PROPOSED SIGN. REMOVE THE EXISTING SIGN.~~
~~D. INSTALL THE PROPOSED SIGN.~~
~~E. USE THE EXISTING CONDUIT.~~
~~F. USE THE EXISTING HANDHOLE.~~
~~G. USE THE EXISTING SPAN WIRE.~~

NEMA PHASING:



NEMA NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

~~PROJECT DESCRIPTION~~

~~I. GENERAL:~~

~~THIS PROJECT INVOLVES INSTALLING A SIDE STREET SPLIT FOR THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 185 AND MD 547 IN MONTGOMERY COUNTY. MD 185 RUNS IN A NORTH-SOUTH DIRECTION.~~

~~II. INTERSECTION OPERATION:~~

~~THIS INTERSECTION IS EQUIPPED WITH A EIGHT PHASE CONTROLLER HOUSED IN A POLE MOUNTED CABINET. IT PRESENTLY SIX PHASES OUT OF EIGHT WITH PROTECTIVE/ PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND MD 185. THIS PHASE WILL NOT WORK FROM 7 AM - 9 AM MONDAY THRU FRIDAY), AND FOR SOUTHBOUND MD 185 (THIS PHASE WILL NOT WORK FROM 4 PM - 6 PM MONDAY THRU FRIDAY), AND A SIDE STREET SPLIT FOR MD 547.~~

NOTES TO THE CONTRACTOR:

1. 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.

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(MONTGOMERY COUNTY AREA)
PHONE: (301) 513-7318

MR. RALEIGH WEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REDISH
ASSISTANT DISTRICT ENGINEER - UTILTIES
PHONE: (301) 513-7350

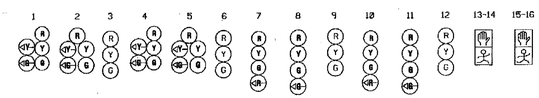
MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION

PHONE: (410) 787-7630

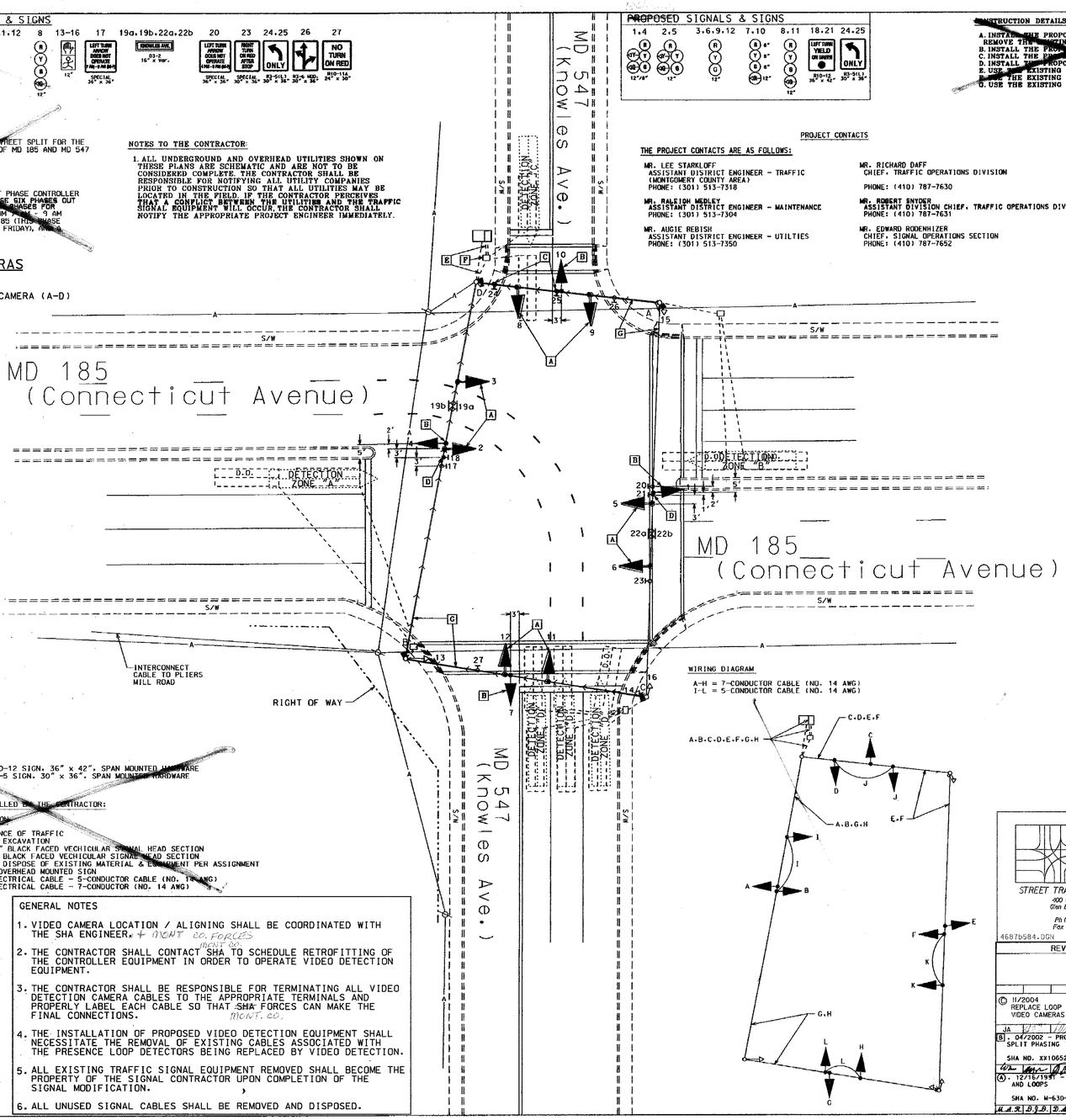
MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13-14	15-16
PHASE 1 & 5	◀G - R	◀G - R	R	◀G - R	◀G - R	R	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6													
PHASE 1 & 6	◀G - G	◀G - G	G	R	R	R	R	R	R	R	R	R	DW	DW
1 CHANGE	◀Y - G	◀Y - G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	R	◀G - G	◀G - G	G	R	R	R	R	R	R	WK	DW
5 CHANGE	R	R	R	◀Y - G	◀Y - G	G	R	R	R	R	R	R	WK	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	DW
PED. CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	◀G - G	◀G - G	G	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 4	R	R	R	R	R	R	◀G - G	◀G - G	G	R	R	R	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
4 ALT.	R	R	R	R	R	R	◀G - G	◀G - G	G	R	R	R	DW	WK
PED. CLEAR	R	R	R	R	R	R	◀G - G	◀G - G	G	R	R	R	DW	FL/DW
4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK



PROPOSED CAMERAS

▶■ - VIDEO DETECTION CAMERA (A-D)

WIRING DIAGRAM

A-H = 7-CONDUCTOR CABLE (NO. 14 AWG)
I-L = 5-CONDUCTOR CABLE (NO. 14 AWG)

~~NOTES TO THE MONTGOMERY COUNTY SIGNAL SHOP:~~

~~1. THE MONTGOMERY COUNTY SIGNAL SHOP SHALL REWIRE THE PEDESTRIAN PHASE TO OPERATE AS AN STANDARD Ø4 PEDESTRIAN PHASE AND DELETE THE Ø3 & Ø4 FLASHING OPERATION.~~

EQUIPMENT LISTS

~~B. EQUIPMENT TO BE FURNISHED BY THE SHA~~

ITEM NO.	QUANTITY	DESCRIPTION
	36 S.F.	~~2 EACH R10-12 SIGN. 36" x 42". SPAN MOUNTED HARDWARE~~
		~~2 EACH R3-5 SIGN. 30" x 36". SPAN MOUNTED HARDWARE~~

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
8011	36 EACH	F & I 12" BLACK FACED VECHICULAR SIGNAL HEAD SECTION
8019	12 EACH	F & I 8" BLACK FACED VECHICULAR SIGNAL HEAD SECTION
8048	1 EACH	REMOVE & DISPOSE OF EXISTING MATERIAL & EQUIPMENT PER ASSIGNMENT
8077	36 S.F.	INSTALL OVERHEAD MOUNTED SIGN
8086	120 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR CABLE (NO. 14 AWG)
8087	1,510 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	DESCRIPTION	QUANTITY
9086	VIDEO DETECTION INTERFACE EQUIPMENT (To be Installed by signal shop)	1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
8020	VIDEO DETECTION CAMERA.	4 EA
8021	PRE MANUFACTURED CAMERA TO CONTROLLER (250' LENGTH) CABLE	3 EA
8022	PRE MANUFACTURED CAMERA TO CONTROLLER (500' LENGTH) CABLE	1 EA
1001	MOT	1 EA

VIDEO CAMERA LEGEND

→→ = VIDEO CABLE (PATH TO CONTROLLER)

UTILITY LEGEND

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

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER. + MONT CO. FORCES
2. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT. MONT CO.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL VIDEO DETECTION CAMERA CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS. MONT. CO.
4. THE INSTALLATION OF PROPOSED VIDEO DETECTION EQUIPMENT SHALL NECESSITATE THE REMOVAL OF EXISTING CABLES ASSOCIATED WITH THE PRESENCE LOOP DETECTORS BEING REPLACED BY VIDEO DETECTION.
5. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
6. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

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REVISIONS

© 11/2004 REPLACE LOOP DETECTION WITH VIDEO CAMERAS SHA NO. M0717585	JA	G584
B. 04/2002 - PROVIDE FOR SIDE-STREET SPLIT PHASING SHA NO. XX1065285		
A. 12/16/1991 - NEARSIDE E/P SIG. HDS. AND LOOPS SHA NO. M-630-501-380	D.A.R. D.J.D. D.A.Z. E.J.P.	T.K.

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASSISTANT DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

NOTICE: THIS IS A REVISION TO AN EXISTING DATED 12/16/1991 ORIGINAL PLAN ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 185 (Connecticut Avenue) and
MD 547 (Knowles Road)
KENSINGTON, MARYLAND

DRAWN BY: J.C.B. MONTGOMERY DOT	F.A.P. NO.	T.S. NO. TS-2665 C-8	SHEET NO.
CHECKED BY: Donald J. Dale	S.H.A. NO. MD 219 A5D/B5D		
SCALE: 1" = 20'	COUNTY MONTGOMERY	T.I.M.S. NO.	
DATE: 12/ 1991	LOG MILE 15018504.24	F087	1 OF 1

G584

SHA#: M0717A5D/B5D TCD#: M0717-03

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