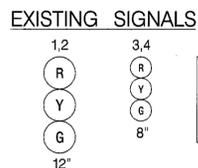


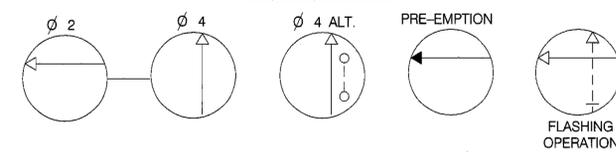
MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



PROPOSED OPTICOM EYE

PROPOSED VIDEO DETECTION CAMERA

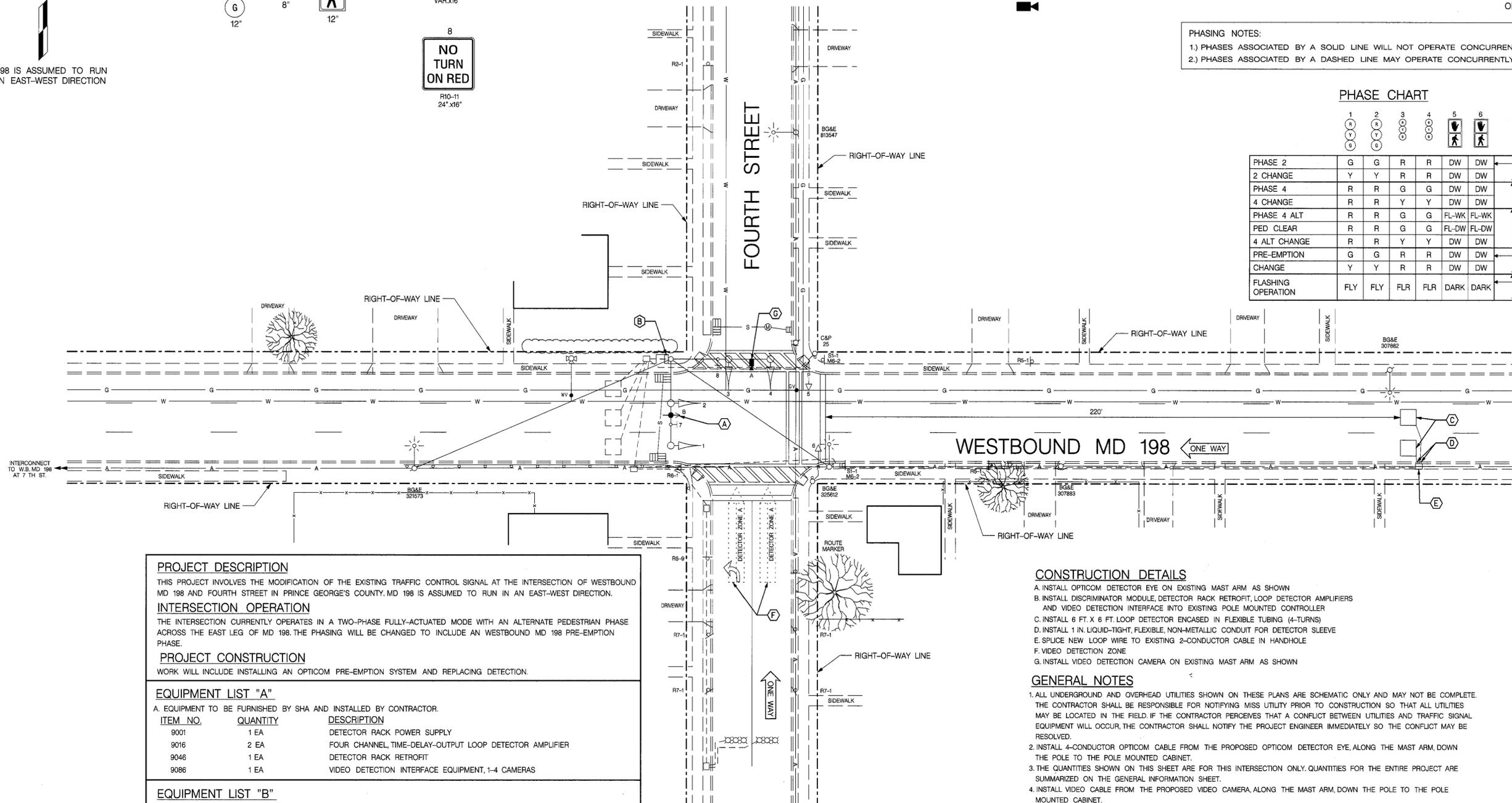
NEMA PHASING



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

PHASE CHART

	1	2	3	4	5	6
PHASE 2	G	G	R	R	DW	DW
2 CHANGE	Y	Y	R	R	DW	DW
PHASE 4	R	R	G	G	DW	DW
4 CHANGE	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	G	G	FL-WK	FL-WK
PED CLEAR	R	R	G	G	FL-DW	FL-DW
4 ALT CHANGE	R	R	Y	Y	DW	DW
PRE-EMPTION	G	G	R	R	DW	DW
CHANGE	Y	Y	R	R	DW	DW
FLASHING OPERATION	FLY	FLY	FLR	FLR	DARK	DARK



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF WESTBOUND MD 198 AND FOURTH STREET IN PRINCE GEORGE'S COUNTY, MD. MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A TWO-PHASE FULLY-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE EAST LEG OF MD 198. THE PHASING WILL BE CHANGED TO INCLUDE AN WESTBOUND MD 198 PRE-EMPTION PHASE.

PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING AN OPTICOM PRE-EMPTION SYSTEM AND REPLACING DETECTION.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	DETECTOR RACK POWER SUPPLY
9016	2 EA	FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
9046	1 EA	DETECTOR RACK RETROFIT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT, 1-4 CAMERAS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8007	1 EA	FURNISH AND INSTALL CONTROL CABLE, 100 FT., VIDEO DETECTION CAMERA TO CONTROLLER
8045	10 LF	FURNISH AND INSTALL 1 IN LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8058	1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8059	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
8061	1 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8079	60 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
8088	240 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8089	70 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

CONSTRUCTION DETAILS

- A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM AS SHOWN
- B. INSTALL DISCRIMINATOR MODULE, DETECTOR RACK RETROFIT, LOOP DETECTOR AMPLIFIERS AND VIDEO DETECTION INTERFACE INTO EXISTING POLE MOUNTED CONTROLLER
- C. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (4-TURNS)
- D. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- E. SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR CABLE IN HANDHOLE
- F. VIDEO DETECTION ZONE
- G. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM AS SHOWN

GENERAL NOTES

- 1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
- 2. INSTALL 4-CONDUCTOR OPTICOM CABLE FROM THE PROPOSED OPTICOM DETECTOR EYE, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.
- 3. THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.
- 4. INSTALL VIDEO CABLE FROM THE PROPOSED VIDEO CAMERA, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	_____	A
ELECTRICAL	_____	E
TELEPHONE	_____	T
GAS	_____	G
SEWER	_____	S
WATER	_____	W
CABLE TV	_____	TV

TRAFFIC CONCEPTS, INC.
 325 Gambrills Road
 Suite E
 Gambrills, MD 21054
 (410) 923-7101

FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

REVISIONS		APPROVALS	
11-15-04	INSTALL OPTICOM PRE-EMPTION	TEAM LEADER TRAFFIC ENGINEERING DIVISION	
TMZ	SHA NO. AT6045185	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
5-8-05	ADD PEDESTRIAN INDICATIONS	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
WJR	SHA NO. 855-28003	DIRECTOR OFFICE OF TRAFFIC & SAFETY	
5-3-05	ASSULT		
WJR	SHA NO. AW 603-503-376		

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 TRAFFIC SIGNAL PLAN
 WESTBOUND MD 198 AND FOURTH STREET

DRAWN BY: W. RICHARDSON	F.A.P. NO. 1913 C	TS NO. 491	SHEET NO. 1 OF 8
CHECKED BY:	S.H.A. NO. AW 603-503-376	T.I.M.S. NO. G 491	
SCALE: 1" = 20'	COUNTY: PRINCE GEORGE'S		
DATE: 6-28-03	LOG MILE:		