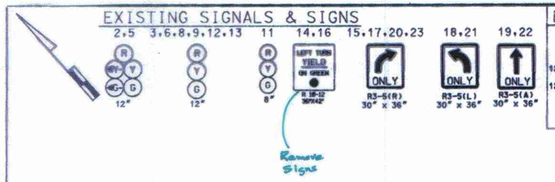
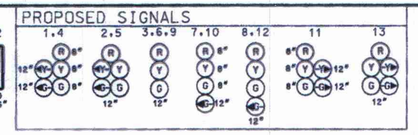
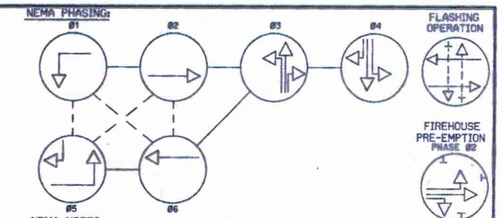
EXISTING SIGNALS & SIGNS



PROPOSED SIGNALS

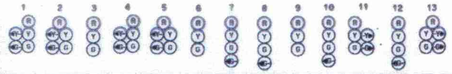


NEMA PHASING:



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

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	G-R	G-R	R	G-R	G-R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6												
PHASE 1 & 6	R	R	R	G-G	G-G	G	R	R	R	R	R	R	R
1 CHANGE	R	R	R	Y-G	Y-G	G	R	R	R	R	R	R	R
PHASE 2 & 5	G-G	G-G	G	R	R	R	R	R	R	R	R-G	R	R-G
5 CHANGE	Y-G	Y-G	G	R	R	R	R	R	R	R	R-Y	R	R-Y
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	G-G	G-G	G	R	R	R	R
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	G-G	G-G	G-G	G-G
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	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	FL/R	FL/R

FIRE HOUSE PRE-EMPTION

FIRE HOUSE PRE-EMPTION PHASE 2	G-G	G-G	G	R	R	R	R	R	R	R	R	R	R
PRE-EMPTION CLEARANCE	Y-G	Y-G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R	R

PROJECT DESCRIPTION

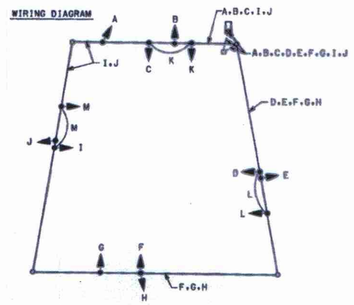
I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE SIGNAL TO ADD SPLIT SIDE STREETS FOR MD 130 AND GREENSPRING VALLEY ROAD. IT ALSO INVOLVES INSTALLING A RIGHT TURN OVERLAP FOR W/B MD 130.
MD 140 RUNS IN A NORTH-SOUTH DIRECTION.

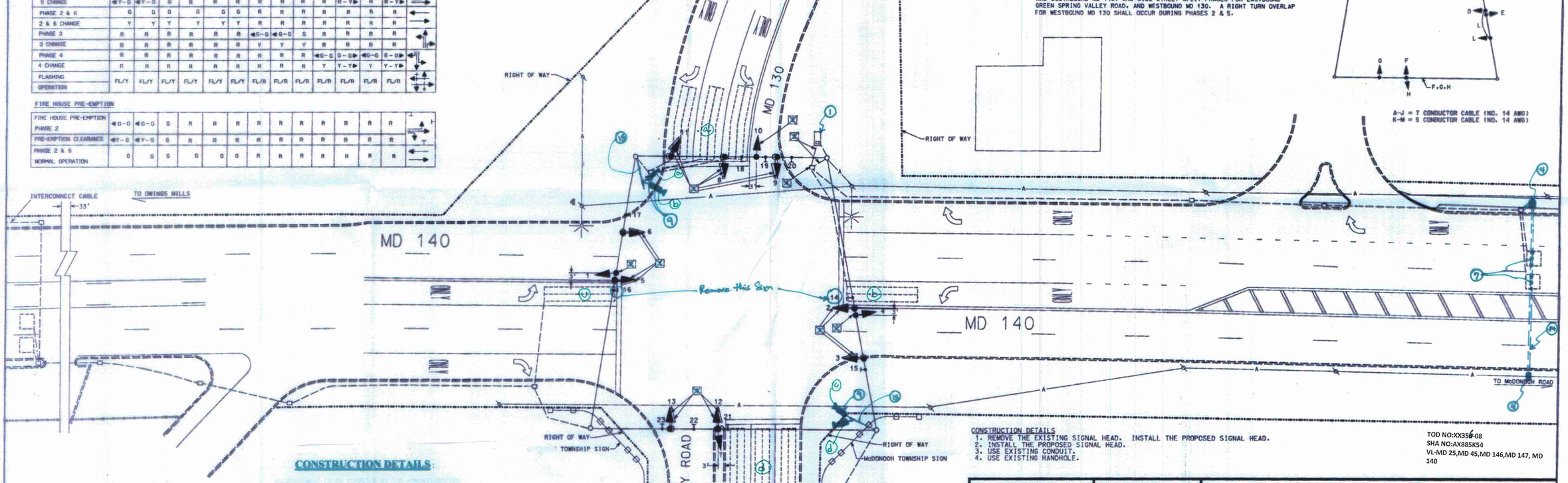
II. INTERSECTION OPERATION

THIS INTERSECTION IS EQUIPED WITH AN EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET. IT WILL USE SIX PHASES OUT OF EIGHT WITH EXCLUSIVE/ PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 140. AND SIDE STREET SPLIT PHASES FOR EASTBOUND GREEN SPRING VALLEY ROAD. AND WESTBOUND MD 130. A RIGHT TURN OVERLAP FOR WESTBOUND MD 130 SHALL OCCUR DURING PHASES 2 & 5.

WIRING DIAGRAM



A-J = 7 CONDUCTOR CABLE (NO. 14 AWG)
K-M = 5 CONDUCTOR CABLE (NO. 14 AWG)



CONSTRUCTION DETAILS:

1. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
2. USE EXISTING CONDUIT.
3. USE EXISTING HANDHOLE.
4. F. & I. HANDHOLE.
5. F. & I. 3" PVC. CONDUIT BORED.
6. F. & I. 3"PVC. CONDUIT TRENCHED.
7. F. & I. NON-INVASIVE PROBE SET.
8. REMOVE EXISTING UN-USED CABLE.
9. F. & I. VIDEO DETECTION CAMERA.
10. F. & I. 14' PEDSTAL POLE WITH 2" PVC. ELBOW IN BASE.
11. F. & I. 2" PVC. CONDUIT TRENCHED.
12. REMOVE & REROUTE THE CABLES.
13. RE-RING THE EXISTING SPAN WITH 4" RING.
14. F. & I. 3" PVC. CONDUIT SLOTTED
15. F. & I. VIDEO DETECTION ARM

CONSTRUCTION DETAILS

1. REMOVE THE EXISTING SIGNAL HEAD. INSTALL THE PROPOSED SIGNAL HEAD.
2. INSTALL THE PROPOSED SIGNAL HEAD.
3. USE EXISTING CONDUIT.
4. USE EXISTING HANDHOLE.

TOD NO:XX3560-08
SHA NO:AX885K54
VL-MD 25,MD 45,MD 146,MD 147, MD 140

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

REVISIONS	APPROVALS
UPGRADE DETECTION WITH VIDEO & NON-INVASIVE PROBE SET SHA NO XX3565168 11/23/2000 J637	ASST. DIVISION CHIEF, TEDD: ORIGINAL
B. 08/ 1999: AS BUILT: ADDED SIDE STREET SPLIT ON MD 130/ GREENSPRING VALLEY RD. & RIGHT TURN OVERLAP FOR W/B MD 130/ S.H.A. NO. 0 X-1999	ASST. DISTRICT ENGINEER, TRAFFIC: ON
A. 07/ 1986: INSTALL NEW SIGNAL EQUIPMENT FOR RELOCATED MD 130 S.H.A. NO. BW-868-801-412	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
R.Z. D.J.D. O.A.Z. E.T.P. S.H.P.	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

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

MD 140 AND MD 130/ GREENSPRING VALLEY ROAD
REISTERTOWN, MARYLAND

SIGNAL NO. DATE: 6-15-1977

DRAWN BY: GEORGE FISH
DES. BY: BARRY KING
CHECK BY: AL BUDNICHUK
SCALE: 1" = 20'

F.A.P. NO.
S.H.A. NO. BW 868-801-412
COUNTY BALTIMORE

PLAN SHEET NO. TS-957 B

SHEET NO. 1 OF 1