MD 115/ SNOUFFER SCHOOL ROAD RUNS IN A EAST -WEST DIRECTION.

## EQUIPMENT LISTS

### A. EQUIPMENT TO BE FURNISHED BY THE SHA

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| | 31.8 S.F. | 1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "NORTH, MARYLAND 124, (LEFT ARROW)", 30" x 51", POLE MOUNTED HARDWARE |
| | | 1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "SOUTH, MARYLAND 124, (RIGHT ARROW)", 30" x 51", POLE MOUNTED HARDWARE |
| | | 1 EACH R10-12 SIGN, 36" x 42", SPAN MOUNTED HARDWARE |

### B. 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 |
| 8015 | 39 EACH | F & I 12" BLACK FACED VECHICULAR SIGNAL HEAD SECTION |
| 8020 | 12 EACH | F & I 8" BLACK FACED VECHICULAR SIGNAL HEAD SECTION |
| 8028 | 1 EACH | REMOVE AND DISPOSE OF EXISTING EQUIPMENT PER ASSIGNMENT |
| 8050 | 21.3 S.F. | INSTALL GROUND MOUNTED SIGN |
| 8051 | 10.5 S.F. | INSTALL OVERHEAD SIGN |
| 8062 | 345 L.F. | F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG) |
| NEG. | 30 L.F. | F & I WOOD SIGN SUPPORTS - 4" x 4" |

### C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

## PROJECT DESCRIPTION

### I. GENERAL

THIS PROJECT INVOLVES REPLACING ALL THE SIGNAL HEADS WITH BLACK FACES, AND ADDING A NEAR SIDE SIGNAL HEAD FOR NORTHBOUND MD 124.
MD 115/ SNOUFFER SCHOOL ROAD RUNS IN A EAST-WEST DIRECTION.

### II. INTERSECTION OPERATION

THERE IS NO CHANGE TO THE INTERSECTION OPERATION.

## PROJECT CONTACTS

**THE PROJECT CONTACTS ARE AS FOLLOWS:**

MR. MAJID SHAKIB
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. ROBERT SNYDER
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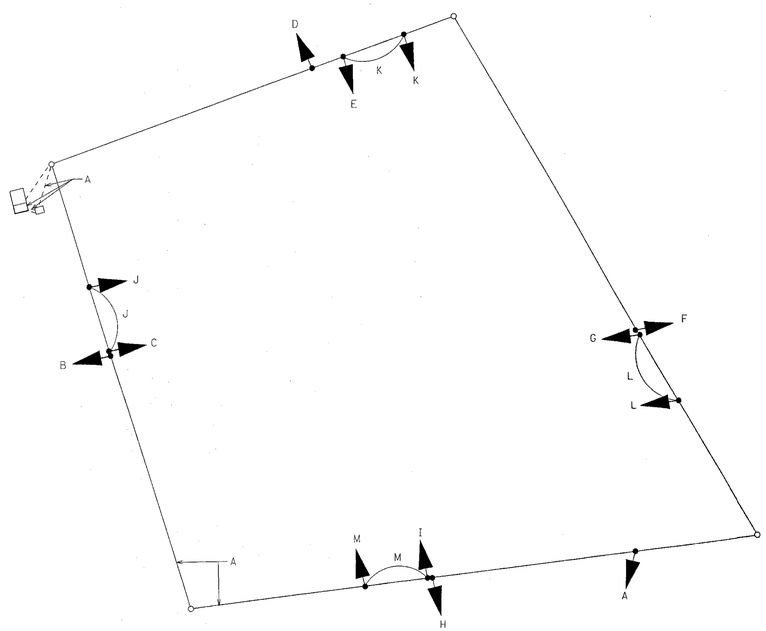
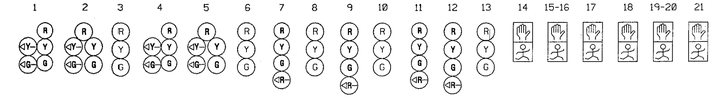
MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

## WIRING DIAGRAM

A = 5-CONDUCTOR CABLE (NO. 14 AWG)
B-I = USE THE EXISTING 7-CONDUCTOR CABLE (NO. 14 AWG)
J-M = USE THE EXISTING 5-CONDUCTOR CABLE (NO. 14 AWG)




## PHASE CHART



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15-16 | 17 | 18 | 19-20 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHASE 1 & 5 | ◀G-R | ◀G-R | R | ◀G-R | ◀G-R | R | R | R | R | R | R | R | R | DW | DW | DW | DW | 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 | R | DW | WK | DW | DW | DW | DW |
| 1 CHANGE | ◀Y-G | ◀Y-G | G | R | R | R | R | R | R | R | R | R | R | DW | WK | DW | DW | DW | DW |
| PHASE 2 & 5 | R | R | R | ◀G-G | ◀G-G | G | R | R | R | R | R | R | R | WK | DW | WK | DW | DW | DW |
| 5 CHANGE | R | R | R | ◀Y-G | ◀Y-G | G | R | R | R | R | R | R | R | WK | DW | WK | DW | DW | DW |
| PHASE 2 & 6 | G | G | G | G | G | G | R | R | R | R | R | R | R | WK | WK | WK | DW | DW | DW |
| PED. CLEAR | G | G | G | G | G | G | R | R | R | R | R | R | R | FL/DW | FL/DW | FL/DW | DW | DW | DW |
| 2 & 6 CHANGE | Y | Y | Y | Y | Y | Y | R | R | R | R | R | R | R | DW | DW | DW | DW | DW | DW |
| PHASE 3 | R | R | R | R | R | R | ◀G-G | R | ◀G-G | G | R | R | R | DW | DW | DW | DW | DW | DW |
| 3 CHANGE | R | R | R | R | R | R | Y | Y | Y | Y | R | R | R | DW | DW | DW | DW | DW | DW |
| PHASE 4 | R | R | R | R | R | R | R | R | R | ◀G-G | ◀G-G | G | DW | DW | DW | DW | DW | DW | DW |
| 4 CHANGE | R | R | R | R | R | R | R | R | R | Y | Y | Y | DW | DW | DW | DW | DW | DW | DW |
| ALT. 3 | R | R | R | R | R | R | ◀G-G | G | ◀G-G | G | R | R | R | DW | DW | DW | DW | WK | DW |
| PED. CLEAR | R | R | R | R | R | R | ◀G-G | G | ◀G-G | G | R | R | R | DW | DW | DW | DW | FL/DW | DW |
| 3 ALT. CHANGE | R | R | R | R | R | R | Y | Y | Y | Y | R | R | R | DW | DW | DW | DW | DW | DW |
| 4 ALT. | R | R | R | R | R | R | R | R | R | ◀G-G | ◀G-G | G | DW | DW | DW | WK | DW | WK |
| PED. CLEAR | R | R | R | R | R | R | R | R | R | ◀G-G | ◀G-G | G | DW | DW | DW | FL/DW | DW | FL/DW |
| 4 ALT. CHANGE | R | R | R | R | R | R | R | R | R | Y | Y | Y | DW | DW | DW | DW | 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 | FL/R | DARK | DARK | DARK | DARK | DARK | DARK |

### REVISIONS

C . 10/2001- AS BUILT: REPLACED THE EXISTING SIGNALS W/ BLACK FACES & ADDED NEAR SIDE SIGNAL FOR N/B MD 124
SHA NO. OT2000

B . 05/1987 - RELOCATED SIGNAL, MODIFIED EQUIPMENT, & PHASING: PROVIDED INTERCONNECT
SHA NO. BW-971-801-312
M.S. & D.A.S. | R.P.P. | M.S. | S.H.

X . 05/1987 - REVISED & REDRAWN TO SHOW INTERIM SIGNAL
SHA NO. BW-971-801-312

A . 05-20-1981 - AS BUILT
SHA NO.

### APPROVALS

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

NOTE: THIS IS A REVISION TO M-961-K-380-19-1 DATED 10-1-87 AN ORIGINAL ON FILE

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

MD 115 (Munaster Road)/ Snoffer School Road and MD 124 (Woodfield Road)
EMORY GROVE, MARYLAND

| | | | |
|---|---|---|---|
| DRAWN BY: W. Malcolm | F.A.P. NO. | T.S. NO. TS-249 C | SHEET NO. |
| CHECKED BY: | S.H.A. NO. 2385412102X100 | T.I.M.S. NO. E695 | 2 OF 2 |
| SCALE: NOT TO SCALE | COUNTY MONTGOMERY | | |
| DATE: 10/ 2001 | LOG MILE 15012+07.59 | | |