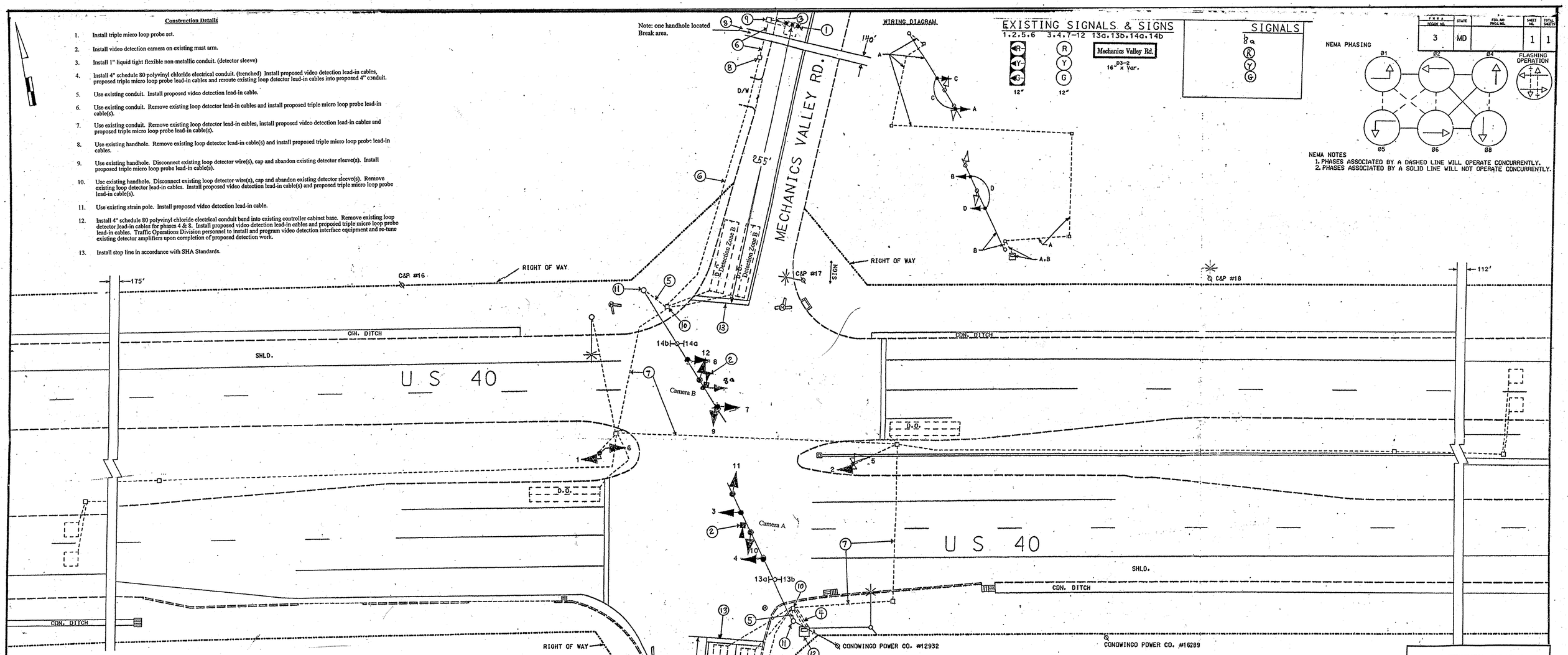
**Construction Details**

1. Install triple micro loop probe set.
2. Install video detection camera on existing mast arm.
3. Install 1" liquid tight flexible non-metallic conduit. (detector sleeve)
4. Install 4" schedule 80 polyvinyl chloride electrical conduit. (trenched) Install proposed video detection lead-in cables, proposed triple micro loop probe lead-in cables and reroute existing loop detector lead-in cables into proposed 4" conduit.
5. Use existing conduit. Install proposed video detection lead-in cable.
6. Use existing conduit. Remove existing loop detector lead-in cables and install proposed triple micro loop probe lead-in cable(s).
7. Use existing conduit. Remove existing loop detector lead-in cables, install proposed video detection lead-in cables and proposed triple micro loop probe lead-in cable(s).
8. Use existing handhole. Remove existing loop detector lead-in cable(s) and install proposed triple micro loop probe lead-in cables.
9. Use existing handhole. Disconnect existing loop detector wire(s), cap and abandon existing detector sleeve(s). Install proposed triple micro loop probe lead-in cable(s).
10. Use existing handhole. Disconnect existing loop detector wire(s), cap and abandon existing detector sleeve(s). Remove existing loop detector lead-in cables. Install proposed video detection lead-in cable(s) and proposed triple micro loop probe lead-in cable(s).
11. Use existing strain pole. Install proposed video detection lead-in cable.
12. Install 4" schedule 80 polyvinyl chloride electrical conduit bend into existing controller cabinet base. Remove existing loop detector lead-in cables for phases 4 & 8. Install proposed video detection lead-in cables and proposed triple micro loop probe lead-in cables. Traffic Operations Division personnel to install and program video detection interface equipment and re-tune existing detector amplifiers upon completion of proposed detection work.
13. Install stop line in accordance with SHA Standards.




**Equipment List 'B'**

Equipment to be furnished and installed by the Contractor.

| ITEM | QUANTITY | | DESCRIPTION |
|---|---|---|---|
| 1001 | 1 | EA | MAINTENANCE OF TRAFFIC PER ASSIGNMENT |
| 5004 | 50 | LF | 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS |
| 5005 | 50 | LF | REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY |
| 8013 | 1 | EA | CONDUIT BEND IN EXISTING BASE |
| 8015 | 1 | EA | CONTROL CABLE 200 FT, VIDEO DETECTION CAMERA TO CONTROLLER |
| 8017 | 1 | EA | CONTROL CABLE 500 FT, VIDEO DETECTION CAMERA TO CONTROLLER |
| 8020 | 1 | EA | REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT) |
| 8025 | 15 | LF | DISCONNECT, PULL-BACK & REROUTE CABLES |
| 8037 | 12 | LF | 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED |
| 8041 | 18 | LF | 1 IN. LIQUID TIGHT FLEXABLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE |
| 8046 | 2 | EA | MICROLOOP PROBE, 500 FOOT LEAD IN CABLE |
| 8047 | 1 | EA | MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE |
| 8053 | 2 | EA | VIDEO DETECTION CAMERA |
| 8070 | 35 | LF | SAW CUT FOR SIGNAL (LOOP DETECTOR) |

**Equipment List 'A'**

Equipment to be supplied and installed by SHA.

Communication Panel
TS-2 Mini-Hub
TS-2 Mini-Hub Cables
Industrial 56k Modem
SDLC Cables

**Equipment List 'C'**

Removed and Salvaged Items

NONE

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 |

**TRAFFIC SIGNAL SYMBOLS**

| PROPOSED | | EXISTING |
|---|---|---|
| ■ | HANDHOLE | □ |
| ▭ | LOOP DETECTOR(6X30) | ▭ |
| □ | LOOP DETECTOR(6X6) | □ |
| ═══ | CONDUIT | ------ |
| ■ | MICRO LOOP PROBE SET | ▭ |
| ■ | ZOOM LENS IMAGE SENSOR | □ |

REVISIONS

F. Replace Detection - Change phase 8 to side street split. SHA B10996M03 11/2003 — MLH MAC — BCK

Replace damaged side rd. loops with video detection SHA No.: OT-2005 10/2005 — MCC

G. INSTALL 3rd SIGNAL HEAD WEST BOUND US40 7-31-2002 — MAC

REVISIONS

D. 2-8-88 - RECUT LOOPS DUE TO PAVING SHA NO. CE 693-501-277 — BJ SR DAZ DRW TU

C. 7-21-86 - CHANGES PHASING TO EXCL. L.T. FOR U.S. 40 SHA NO. 855 26000-106 — JJD SR DAZ CJP TU

B. 12-11-85 - INSTALL LEFT TURN LOOP DETECT.: REPAIR DAMAGED LOOPS: SHA NO. 855 25004 — JJD SR DAZ CJP TU

E. 04/97 - AS BUILT: INSTALL NEW SIGNALS WITH RED STROBE INDICATIONS FOR W/B & E/B PH. 4 & 8 SHA NO. 855 26000-106 — DRW

APPROVALS

ASST. DIVISION CHIEF, TSOD — ORIGINAL

ASST. DISTRICT ENGINEER, TRAFFIC — ON

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — FILE

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

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

U S 40 AND MECHANICS VALLEY RD.

SIGNAL NO. 07004009.24 — DATE 1-19-1983

| | | | |
|---|---|---|---|
| DRAWN BY: THOMAS ZAYDEL | F.A.P. NO. | PLAN SHEET NO.: | SHEET NO. |
| DES. BY: THOMAS ZAYDEL | S.H.A. NO. CE 663-501-285 | TS-1895. (H) | 1 OF 1 |
| CHECK BY: DENNIS J. DODA | COUNTY CECIL | | |
| SCALE: 1" = 20' | | | |

| F.A.P. REGION NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | MD | | 1 | 1 |