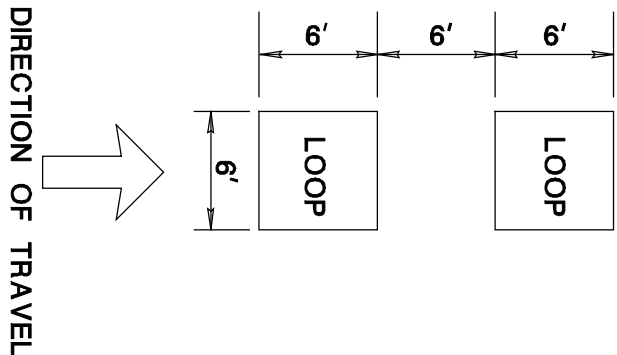
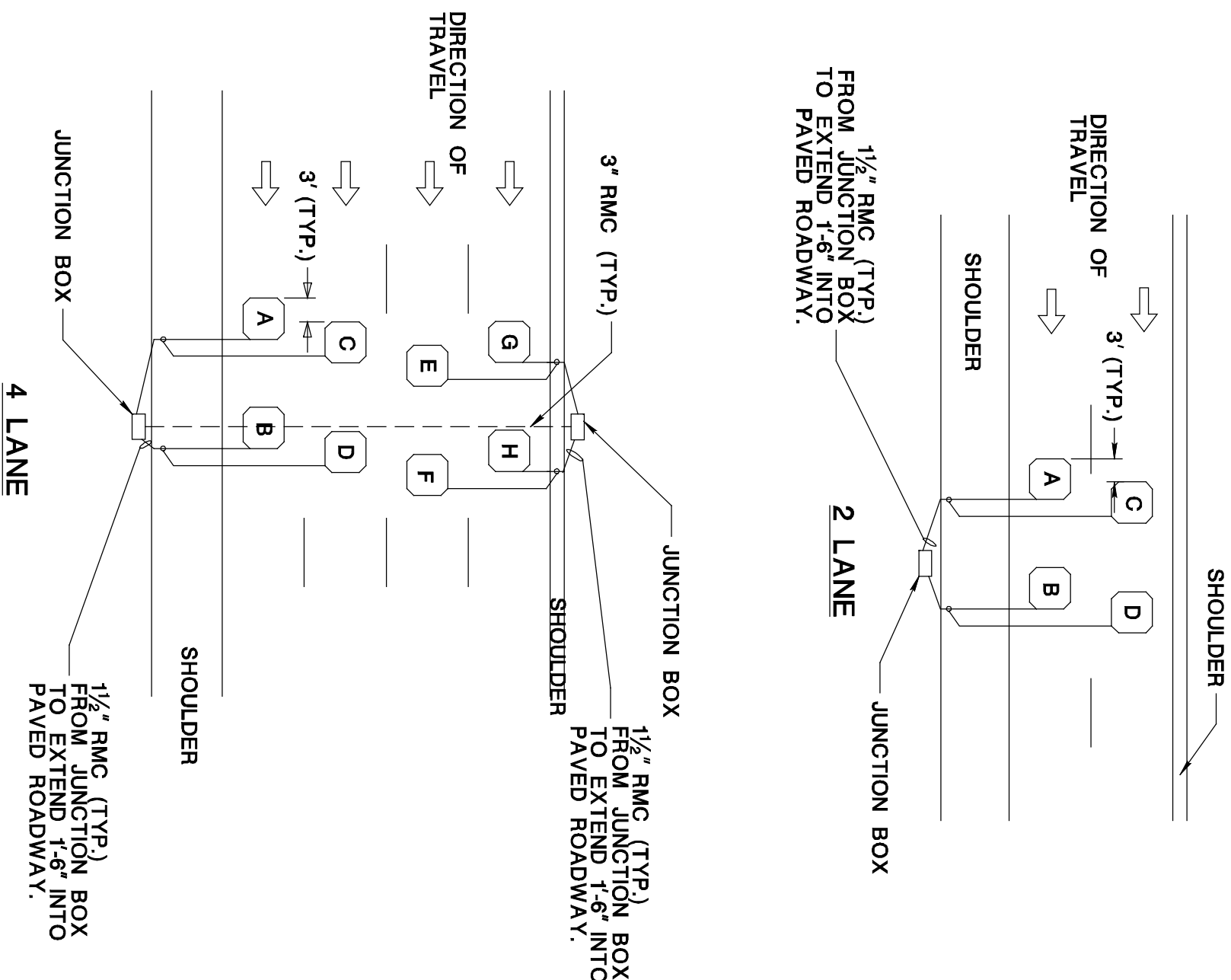
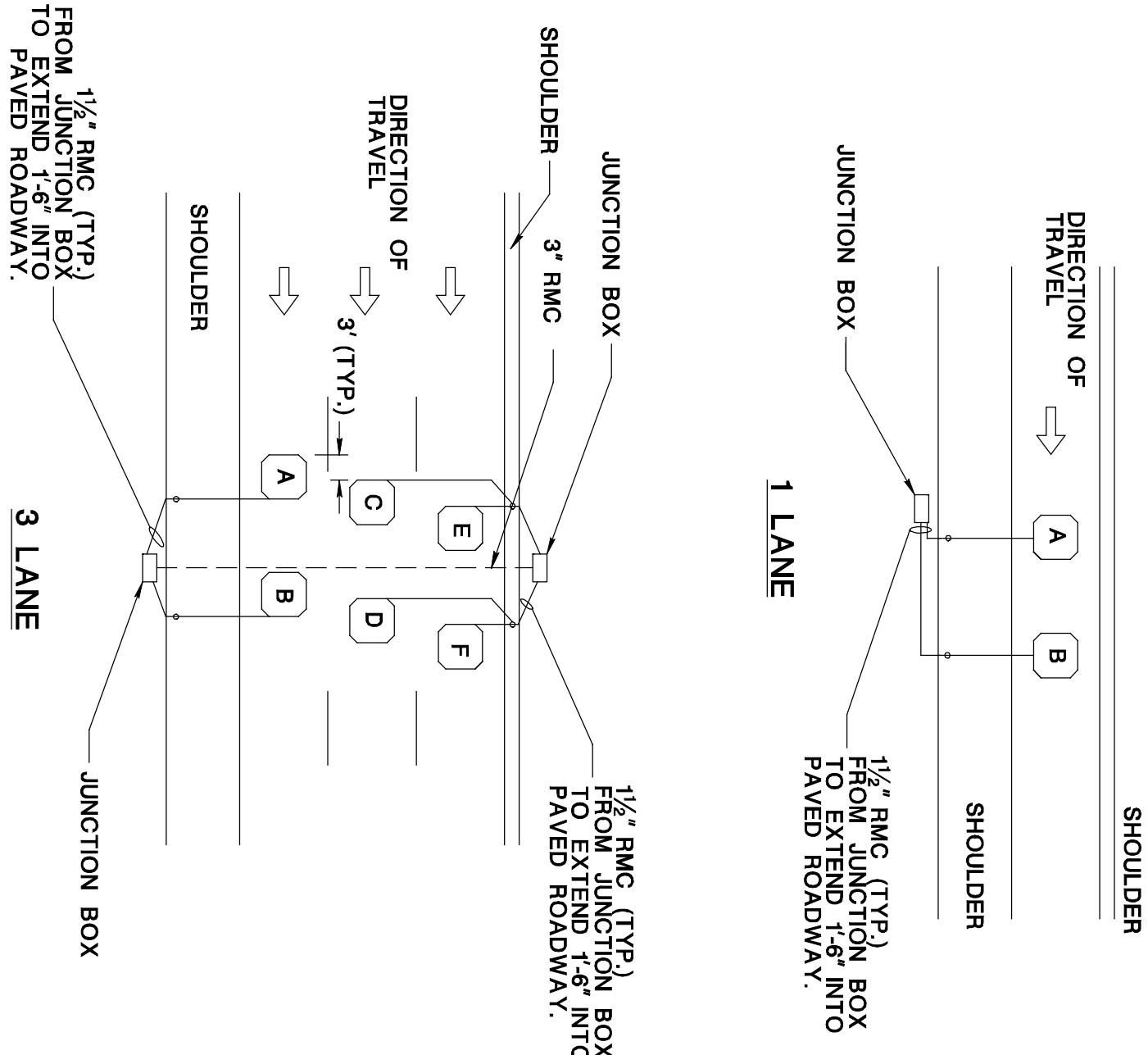


|              |             |    |         |
|--------------|-------------|----|---------|
| REV. 8/20/09 |             |    |         |
| REV. 9/18/09 |             |    |         |
| BDC07D-03    |             |    |         |
| REVISION     | DESCRIPTION | BY | CHECKED |
| DATE         |             |    |         |

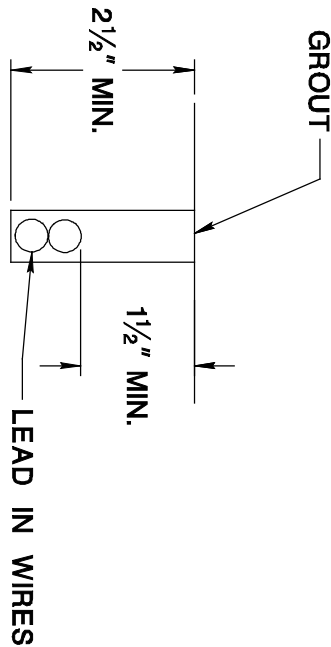
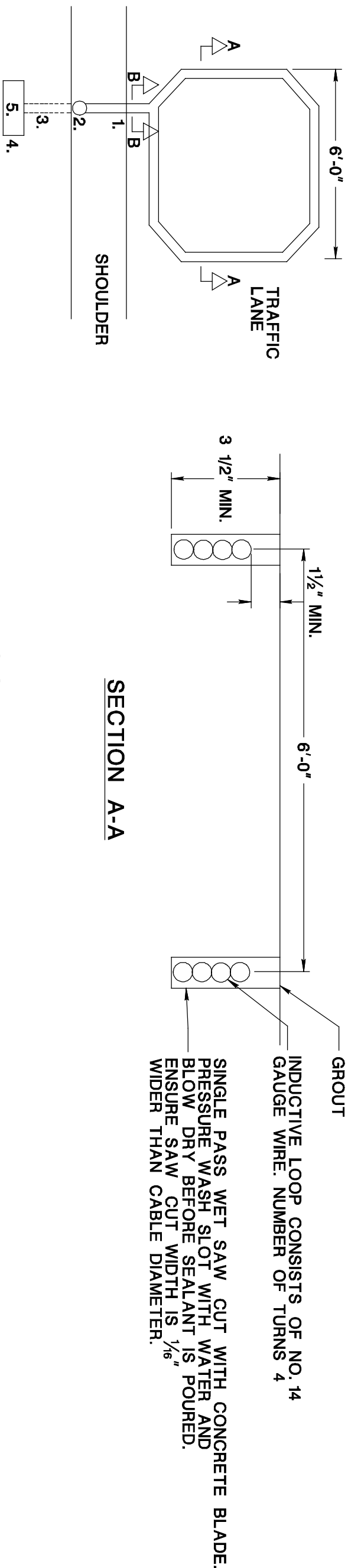
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LOOP LAYOUT  
FOR TRAFFIC VOLUME SYSTEM

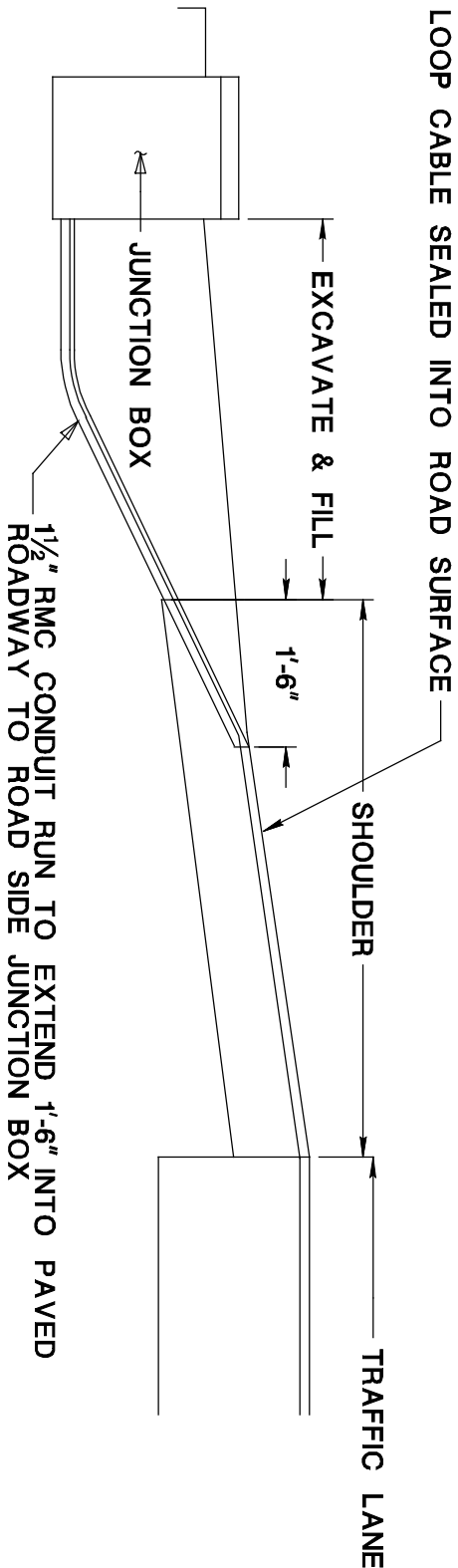


TYPICAL INSTALLATION TVS ROADWAY LOOPS



SECTION A-A

SECTION B-B



LOOP CABLE ROUTING DETAILS

## ATTACHMENT 5

|       |                     |
|-------|---------------------|
| STATE | FEDERAL PROJECT NO. |
| N.J.  | *                   |

### IDENTIFICATION OF TVS ROADWAY LOOPS

- IDENTIFY LOOPS WITH DURABLE IDENTIFICATION TAGS ON EACH LOOP LEAD PAIR. AFFIX LETTERS AS FOLLOWS:
  - TAG THE LEADING LOOP AS LOOP "A" (FIRST LOOP IN THE DIRECTION OF TRAVEL OF THE RIGHT MOST LANE VARIOUSLY CALLED "SLOW" SHOULDER OR TRAVEL LANE) LOOP "B" AS THE TRAILING (SECOND) LOOP IN THE SAME LANE AND "LOOP "C" AS THE THIRD LOOP IN THE SAME LANE.
  - IDENTIFY LOOPS IN GROUPS WITH THE LEADING LOOP IN THE DIRECTION OF TRAVEL ALWAYS IDENTIFIED FIRST WITHIN THE GROUP. ASSIGN THE GROUPS BY LANE ACROSS ROADWAY, SIMILARLY DESIGNATE LOOPS IN THE OPPOSITE DIRECTION BY LANE STARTING IN THE RIGHT MOST LANE USING THE NEXT GROUP OF LETTERS, THEN ACROSS THE LANES TO THE DIVIDER OR MEDIAN.

### NOTES:

1. STAGGER ADJACENT LANE LOOPS.
2. WHERE CONCRETE ROADWAY EXISTS, INSTALL LOOPS IN CONCRETE SURFACE PRIOR TO RESURFACING.
3. WHERE REFLECTORS AND CASTINGS AND RUMBLE STRIPS ARE TO BE INSTALLED, ADJUST THE DEPTH OF THE LOOP LEADS ACCORDINGLY TO AVOID DAMAGE.
4. INSTALL LOOPS AFTER MILLING PROCESS, IF PERFORMED, AND PRIOR TO THE INSTALLATION OF THE FINAL OVERLAY.
5. LEAD WIRES TWISTED MINIMUM OF 3 TURNS PER FOOT.
6. DRILL HOLE 1'-6" FROM EDGE OF SHOULDER TO INSTALL RMC CONDUIT.
7. 1 1/2" RMC CONDUIT RUN BETWEEN JUNCTION BOX AND SHOULDER SURFACE.
8. INSTALL JUNCTION BOX AT ROAD EDGE FOR CONNECTIONS TO FEEDER CABLE.
9. MAKE ALL CONNECTIONS BETWEEN LEAD WIRES AND LOOP DETECTOR CARVE IN THE JUNCTION BOX.

|                                         |            |
|-----------------------------------------|------------|
| NEW JERSEY DEPARTMENT OF TRANSPORTATION | ITS-704-XX |
| ITS DETAILS                             |            |
| TRAFFIC VOLUME SYSTEM (TVS)             |            |
| TVS ROADWAY LOOPS                       |            |
| SCALE:<br>NOT TO SCALE                  |            |