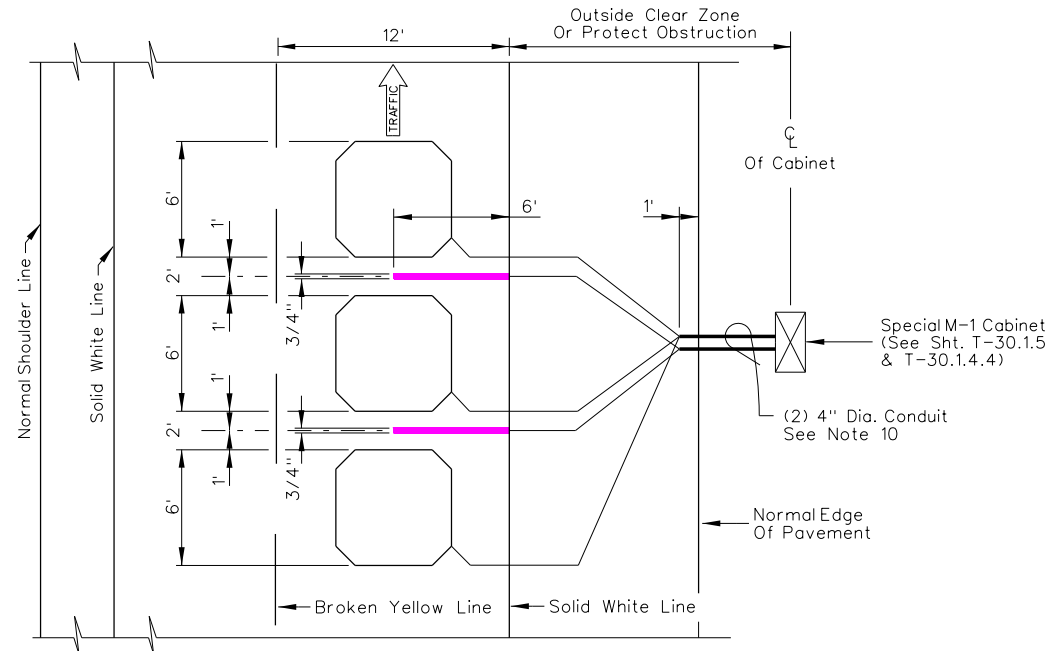


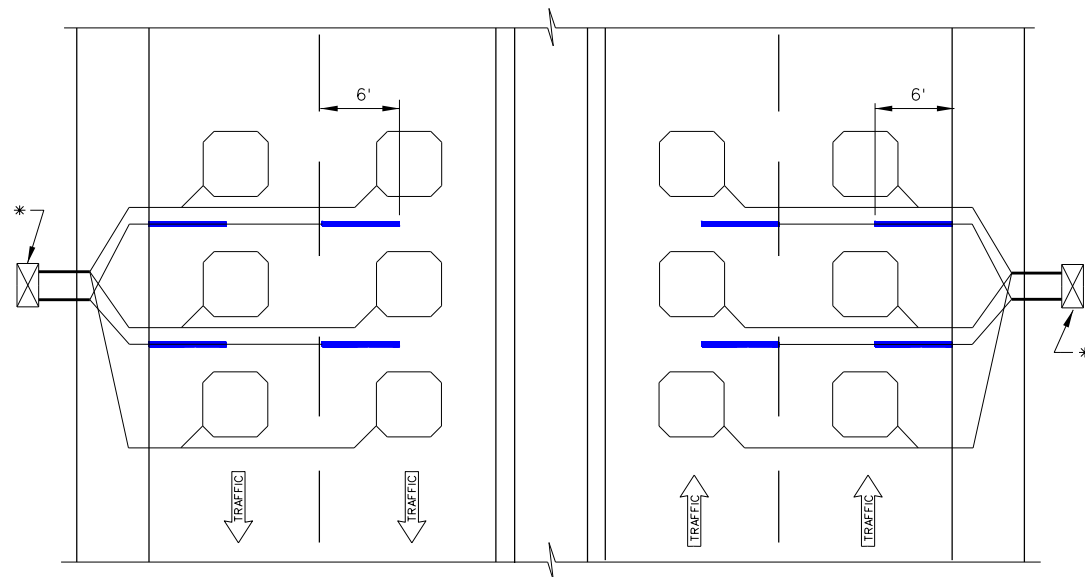
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	PROJECT1	COUNTY1	SHT99



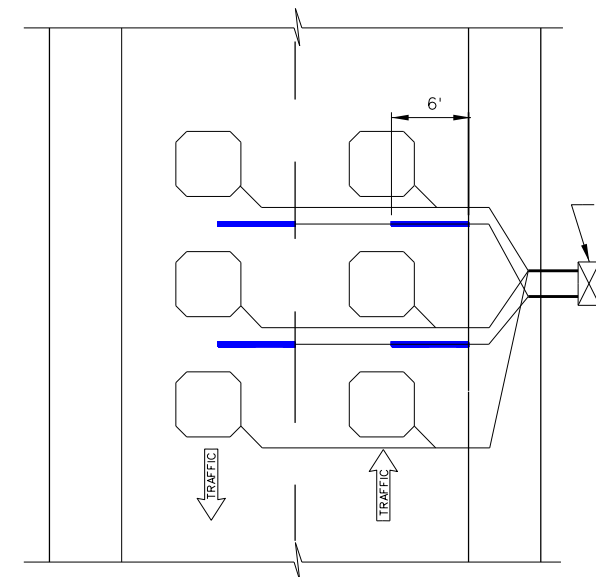
AVC DETECTOR PLACEMENT DETAIL
OPPOSITE LANE NOT SHOWN FOR CLARITY

NOTES:

1. **Five working days prior to placement of any and all sensors, the resident engineer shall notify the Traffic section of the planning division for assistance in establishing the exact locations. For District 1 call 702-486-7000, for Districts 2 and 3 call 775-888-7474.**
2. All loops shall be 6' x 6' square with 4 turns of wire, or all loops shall be 6' round loops with 4 turns of wire.
3. Each loop shall be a continuous run to the special M-1 cabinet with no splices and shall be labeled with proper lane designation and sensor placement (i.e. leading, middle, trailing sensor).
4. Loop wire homerun pairs shall be twisted no less than 4 times per foot for the entire home run to No. 5 pull box and special M-1 cabinet.
5. Loops shall be centered in all travel lanes and turn lanes.
6. Loop cuts shall be 3/8" wide and 2-1#2 -3" maximum depth.
7. Loop wire shall be AWG-14 stranded IMSA-51-1.
8. For diagonal slot at corners detail, see standard plan sheet T-30.1.4.
9. Loop wire and Class 1 piezoelectric sensor cable shall be carried in separate conduit to No.5 pull box and/or special M-1 cabinet. Conduit going under pavement areas is shown outside the loop depictions for clarity.
10. Class 1 piezoelectric sensor length shall be equal to half of the lane width, and installed in accordance with manufacturer's specifications unless otherwise specified here.
11. Class 1 piezoelectric sensor cable shall be a continuous run to the special M-1 cabinet with no splices and labeled with proper lane designation and sensor placement (i.e. leading, middle, trailing sensor).
12. AVC detector shall include all conductors and saw cutting necessary for installation.
13. If guardrail/barrier rail is provided, the special M-1 cabinet shall be placed a minimum of 24" behind rail.
14. For special M-1 cabinet only, in accordance with the National Electric Code 250-56 when the grounding plate does not have a resistance to ground of 25 ohms or less, it shall be augmented with one additional electrode, preferably a 1#2" x 96" copper ground rod.
15. Payment shall be made under the following items:
Special M-1 cabinet (each)
No.5 traffic rated pull box (each)
4" diameter conduit (LINF T) 6"x6" loops (each)
Piezoelectric sensors (each)



EXAMPLE: 4 - LANES OR MORE
WITH TWO SPECIAL M-1 CABINETS
LOCATED TO THE OUTSIDE



EXAMPLE: 1 - LANE EACH DIRECTION
CABINETS LOCATED TO THE OUTSIDE

- LEGEND -
* -SPECIAL M-1 CABINET

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL
AVC DETECTORS