1. Installation of signal detection loops in the bridge deck shall be cast-in-place and installation by saw cutting an existing bridge deck shall not be allowed. This plan is intended for new construction only (not allowed for existing structures).

2. For Supplemental Splice in adjacent junction box, see Splice Detail, per Standard Plan J-50.16.

3. Preformed loops shall conform to the layouts, numbering details, marking requirements, and wiring diagrams of Standard Plan J-50.12 for the number and types of loops shown in the Contract Plans.

4. Loops shall be tested immediately prior to pouring concrete, per Standard Specification B-20.3(14)D.

5. Layout Preformed loops and loop lead-ins to maintain 1’ (ft.) clearance from joints.

6. Construct a supplemental splice containing any series loop connections in adjacent Junction Box as required in the Plans. Supplemental splices are subject to the same requirements shown for the loop lead-in and the shielded cable splice, as shown in Standard Plan J-50.12.

7. Barrier Junction Box - 8” x 8” x 18” NEMA 4X in stationary-form barrier, adjustable NEMA 3R in slip-form barrier. (Junction Box can be recessed up to 1/8”). See Standard Plan J-40.36 or J-40.37.

8. For installation of Junction Box in the sidewalk, see Standard Plan J-40.40.
NEMA JUNCTION BOX IN SIDEWALK WITH SLIP RESISTANT LID - SEE STANDARD PLAN J-40.40

SEE CONTRACT DOCUMENTS FOR SIZE 2" CONDUIT IN SIDEWALK

2-2" CONDUITS IN BARRIER

2" CONDUIT IN SIDEWALK

CURB

PLAN VIEW

NEMA JUNCTION BOX IN SIDEWALK WITH SLIP RESISTANT LID - SEE STANDARD PLAN J-40.36

SEE CONTRACT DOCUMENTS FOR SIZE 1" CONDUIT IN SIDEWALK

2" CONDUIT IN SIDEWALK

2" CONDUIT IN SIDEWALK

CURB

PLAN VIEW

2" CONDUIT IN BARRIER

1" CONDUIT

DRAIN TUBE

LOOP LEAD-IN (2 MAX PER 1" CONDUIT)

2" CONDUIT IN BARRIER

TOP OF BRIDGE DECK

SINGLE SLOPE TRAFFIC BARRIER

ELEVATION VIEW

1" CONDUIT

DRAIN TUBE

LOOP LEAD-IN (2 MAX PER 1" CONDUIT)

SECTION PEDESTRIAN BARRIER

PEDESTRIAN BARRIER

ELEVATION VIEW

SECTION PEDESTRIAN BARRIER

PEDESTRIAN BARRIER

ELEVATION VIEW

PREFORMED LOOP INSTALLATION DETAILS FOR NEW BRIDGE DECKS

STANDARD PLAN J-50.16-01

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

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Washington State Department of Transportation