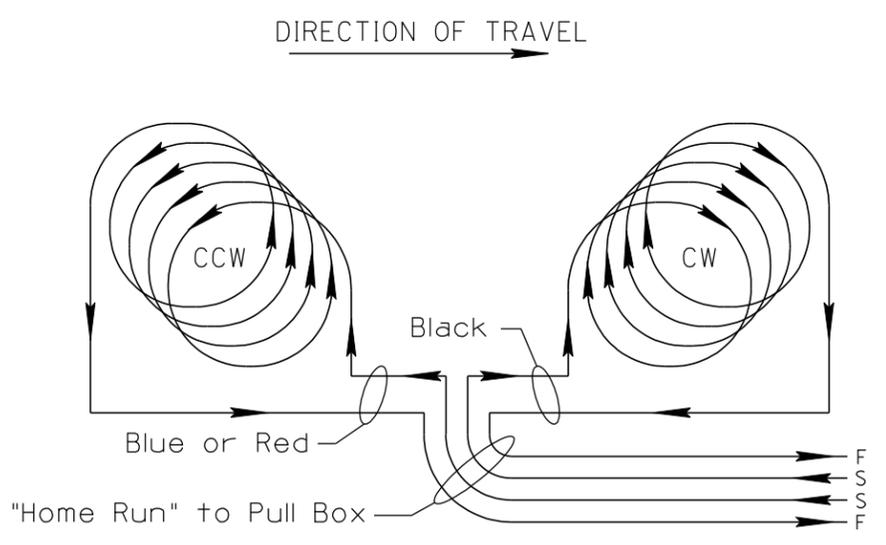
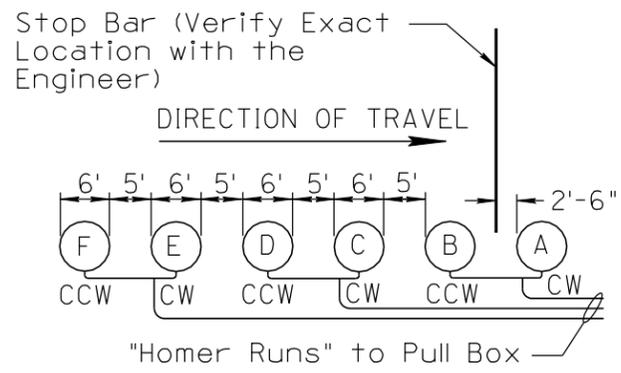


NO	DATE	DESCRIPTION OF REVISIONS
1	2010 EDITION	
2		
3	03/10	
4		

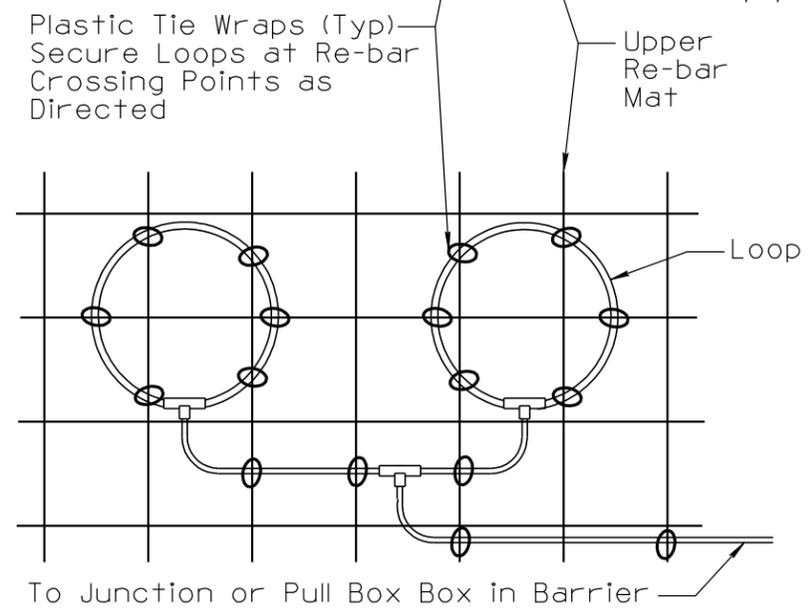
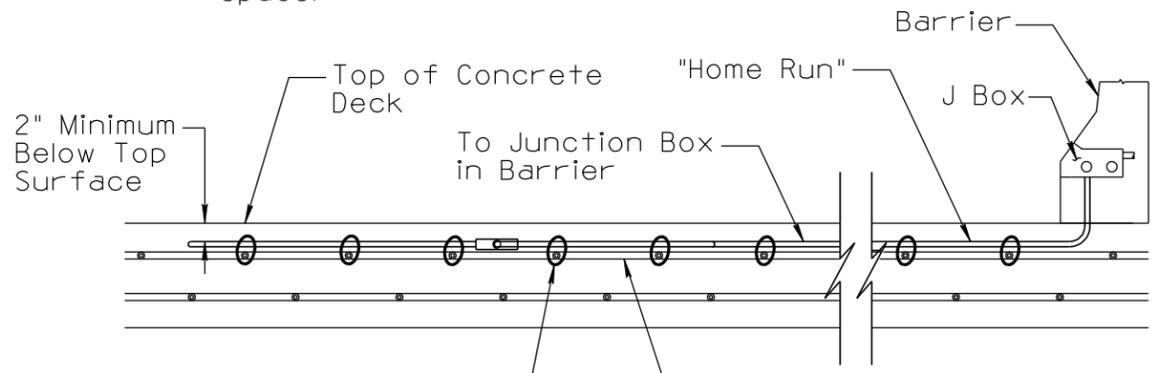


**WIRING DIAGRAM**

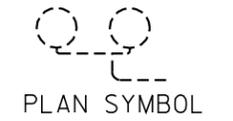
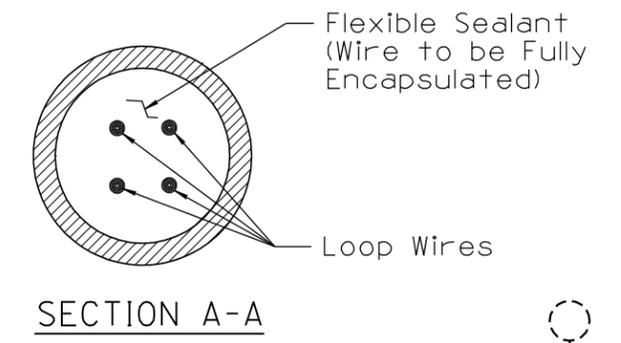
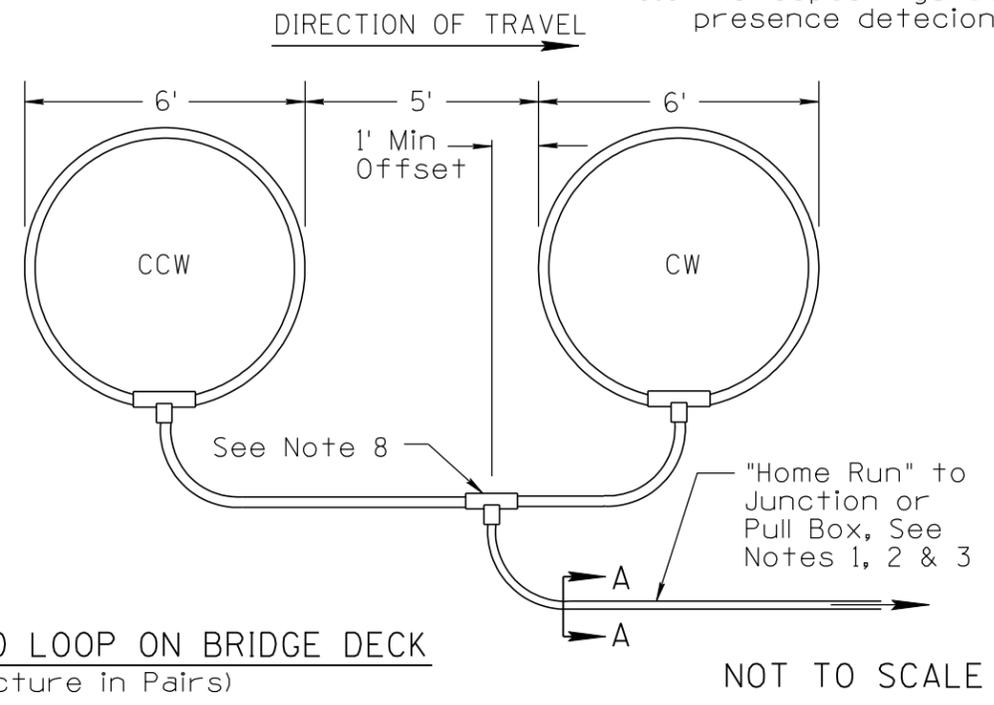
(5 Turns for Each Loop, the Actual Number of Loops Vary Based on Application and Available Space)



**PLACEMENT DIAGRAM**  
(For Multiple of 6 Loops)



**ROUND PREFORMED LOOP ON BRIDGE DECK**  
(Manufacture in Pairs)



**NOTES:**

1. Loop detectors on bridge decks shall be preformed loops. They shall be factory formed of 3/8" ID polypropylene (equivalent to Schedule 40) or 250 PSI 3/8" ID hydraulic hose and shall be hot applied rubberized sealant filled with #16, AWG stranded wires with TFFN insulation. The entire "Home Run" approaching the pull box shall be fabricated from 250 PSI 3/8" ID hydraulic hose containing conductors encased in rubberized sealant. See Specifications.
2. The detector loop layouts shown are general in nature only. The contractor shall verify the length and direction of the "Home Runs" with actual field conditions.
3. Wiring diagram for loops shall be per requirements of the details on this sheet. Each homerun conductor pair, twisted 4 turns per foot shall be tagged by the manufacturer to identify current flow polarity (S=Start & F=Finish). All loops in the same lane shall be wound with alternate polarity in clockwise (CW) or counterclockwise (CCW) direction as shown above.
4. All loop assemblies shall be tested before and after concrete pours, per the required tests specified in T.S. 7-1
5. Loops in bridge decks shall be 6' Dia round preformed loops. They shall be wired and placed according to the wiring and placement diagrams shown above and the recommendations of the manufacturer
6. No cutting of reinforcing steel will be allowed for the placement of detector loops and homeruns.
7. Each "Home Run" tube shall be tagged in the pull box with a stainless steel band to identify each lane and loop combination. Example: 1AB, 1CD, 1EF, Lane No. 1 is defined as the outside lane near the right side curb.
8. The "Home Run" "T" connector shall be used as a loop winding polarity indicator.
9. Loop detectors shall be located in the center of the traveled lane. The exact location of stop bars and lane stripes shall be verified with the Engineer prior to loop installation.
10. The loop configuration can be used as thru and turn movement presence detection (e.g. 6' x 6')

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION 03/10
<b>SIGNATURE</b>		DRAWING NO. T.S. 7-3
APPROVED FOR DISTRIBUTION	PRE-FORMED LOOP DETECTORS IN BRIDGE DECK	SHEET NO. 1 OF 1
<b>ON FILE</b>		