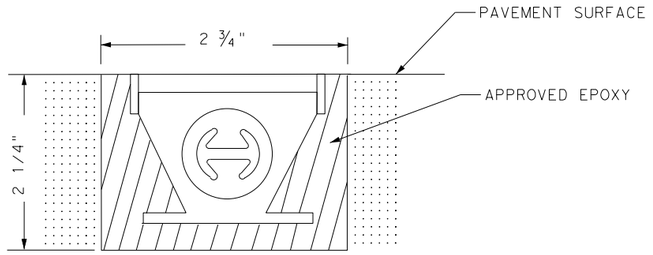
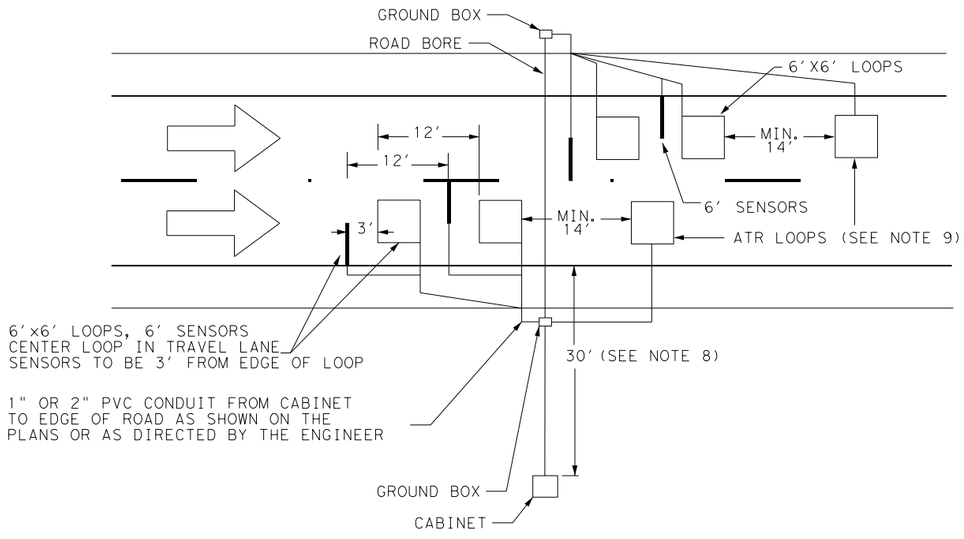
DATE:
FILE:

TYPICAL CLASS I QUARTZ SENSOR WEIGH IN MOTION (WIM)

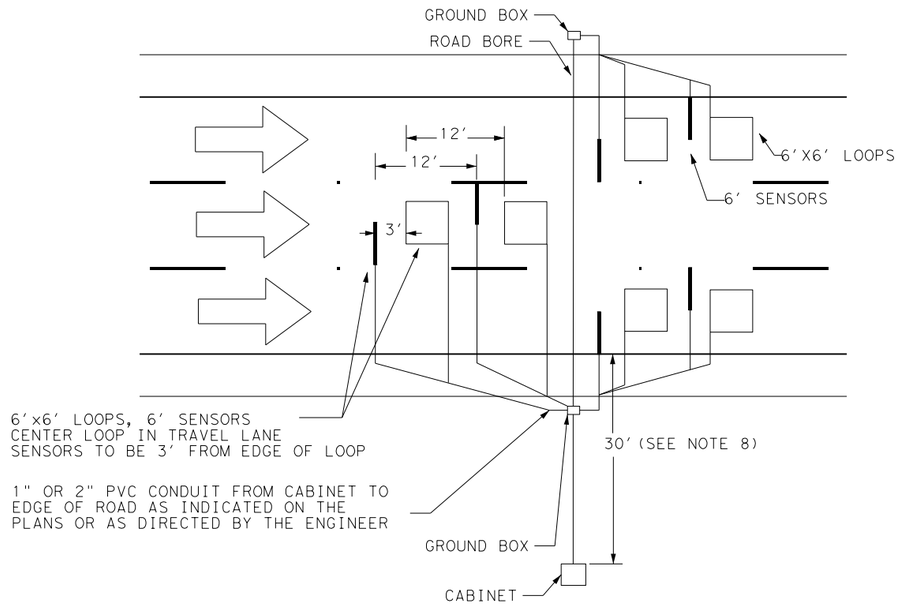
(SEE NOTES 2, 5, AND 6)



WEIGH IN MOTION (WIM) TYPICAL CLASS I QUARTZ SITE EXAMPLE



WEIGH IN MOTION (WIM) TYPICAL CLASS I QUARTZ MULTIPLE LANE SITE EXAMPLE



GENERAL NOTES:

1. Make pavement cuts with concrete saw. Create neat lines and remove loose materials. Clean and dry cut prior to placing wire and sealing compound.
2. Run wire into ground box and then directly to cabinet with only one splice between loop and cabinet. Sensors will not be spliced at any time. Attach #8 AWG stranded ground wire to each sensor and run directly with no splices to the cabinet ground bar.
3. Fully encapsulate all wire, lead in and sensors in saw cut with applicable sealant. Sealing compound shall be in accordance with DMS 6340. The sensors and epoxy will be provided by TxDOT.
4. The loop and sensor location, configuration, and number of turns for the loop shall be as indicated on the plans or as directed by the Engineer.
5. Make separate saw cut from each loop to pavement edge or as specified by the Engineer. Run wire or lead in cable for each associated Quartz sensor and loop in the same saw cut. Run each loop lead in cable and the associated Quartz sensor cable in their own 1" or 2" PVC conduit from the pavement edge to the ground box or as directed by the Engineer. Consolidate wires from ground box to cabinet. Install two 2" PVC conduits or one 3" PVC conduit at cabinet unless otherwise directed by Engineer.
6. Typical pavement cut for Class I Quartz Sensor is 6'L X 2 1/4" W X 2 3/4" D.
7. Install Class I Quartz Sensors as per manual furnished and directed by TxDOT representative. (TxDOT will provide sensors and epoxy.)
8. Set cabinet back 30' from edge of traveled lane unless otherwise directed by Engineer.
9. Install Automatic Traffic Recorder (ATR) loop in each lane as directed or shown on the plans. Identify each lead-in wire with third band of applicable lane color.

Texas Department of Transportation | Transportation Planning & Programming Division

TRAFFIC DATA COLLECTION WEIGH-IN-MOTION (WIM)

TDC(1)-22

FILE: tdc(1)-21dgn	DN:	CK:	DW:	CK:
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REVISIONS				
October 2022	DIST	COUNTY		SHEET NO.