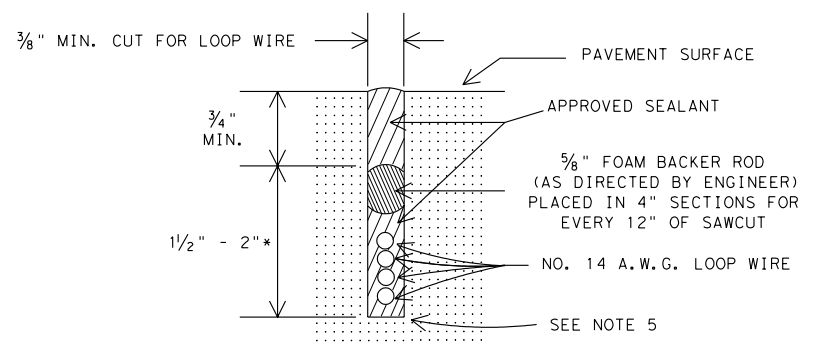


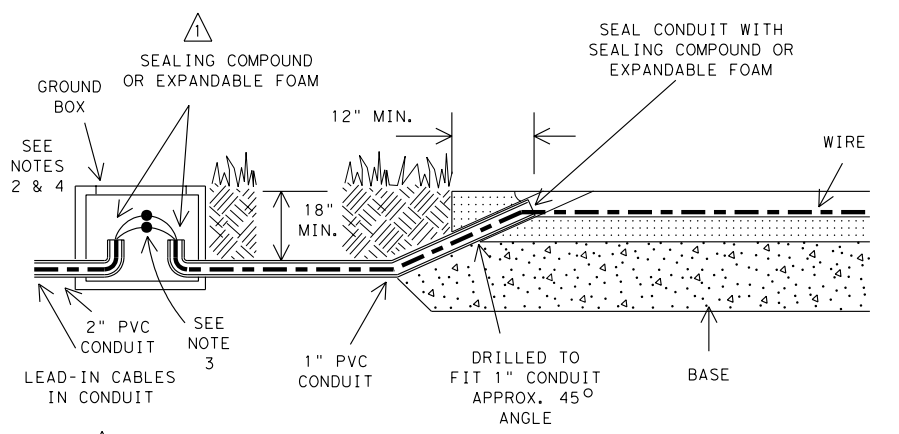
LEVELS DISPLAYED  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48  
 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63  
 ACC:

DISCLAIMER  
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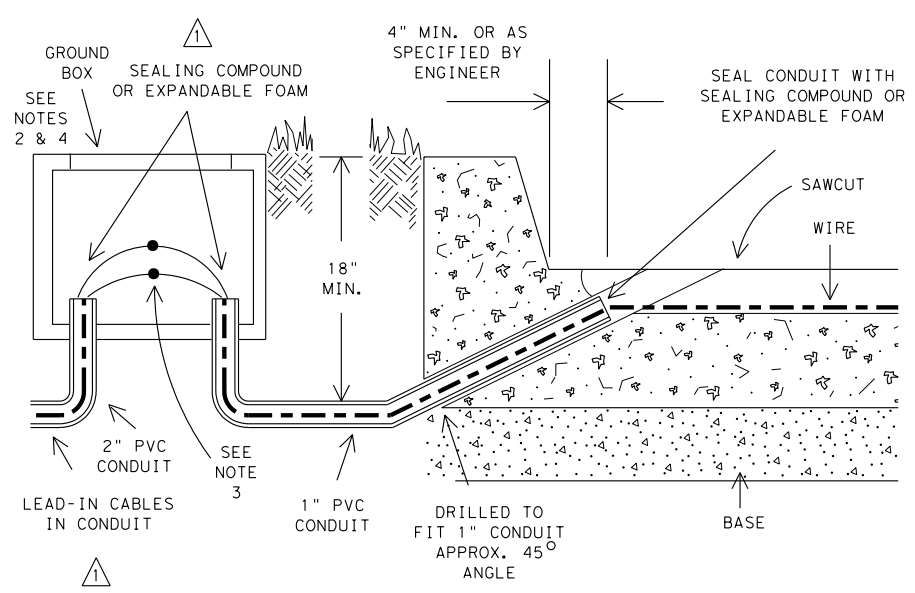


**LOOP SAW CUT CROSS-SECTION**

\* SAWCUTS IN BRIDGE DECKS ARE TYPICALLY 1" DEPTH MAXIMUM  
 SAWCUTS IN BRIDGE DECKS AND ACROSS EXPANSION JOINTS SHALL BE AS APPROVED BY ENGINEER



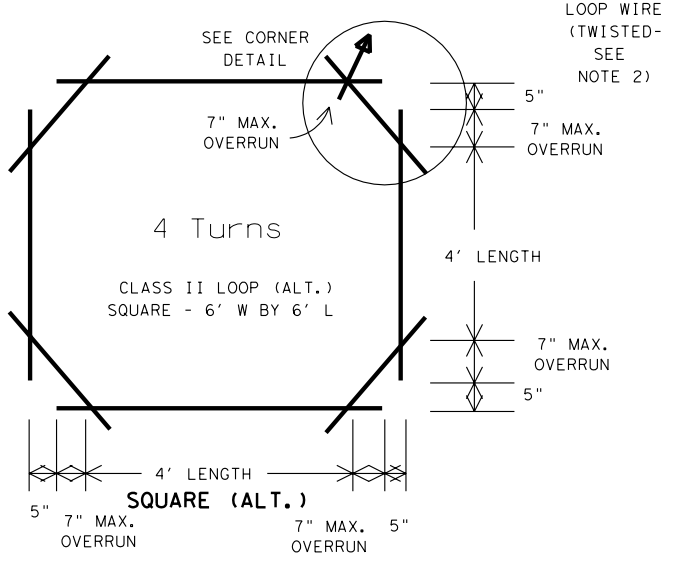
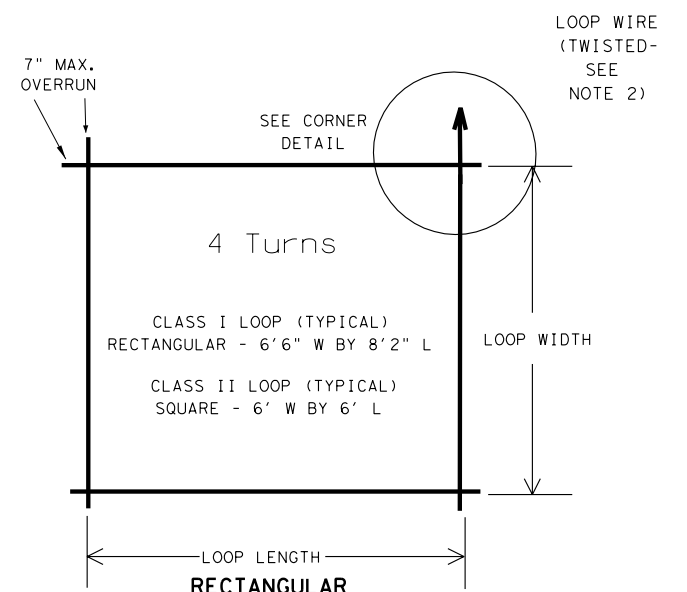
**TYPICAL LEAD IN CONFIGURATION (WITHOUT CURBING)**



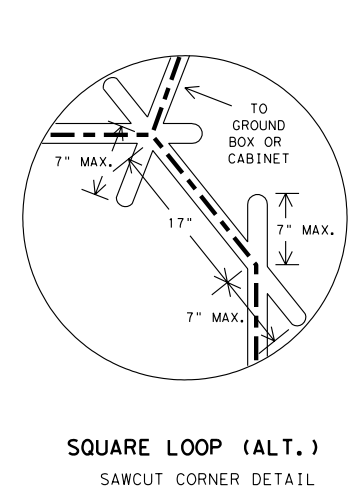
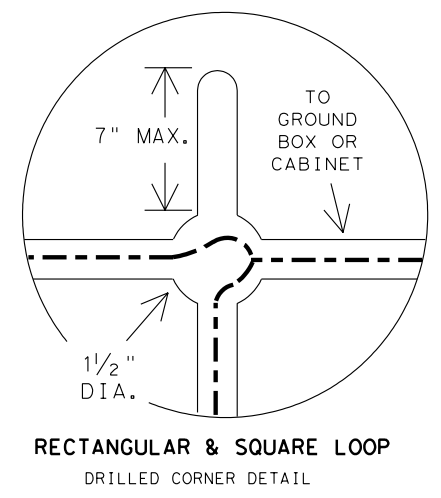
**TYPICAL LEAD IN CONFIGURATION (WITH CURBING)**

**TYPICAL LOOP DETECTOR LAYOUTS**

(AS SPECIFIED IN PLANS)

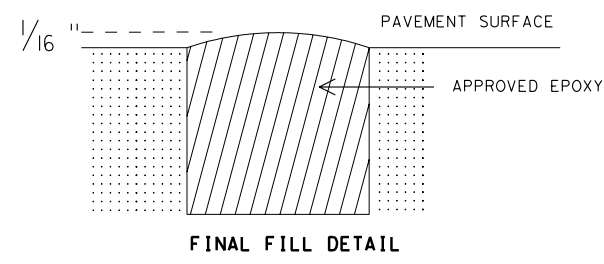
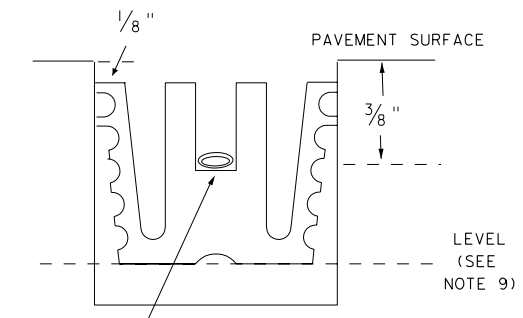
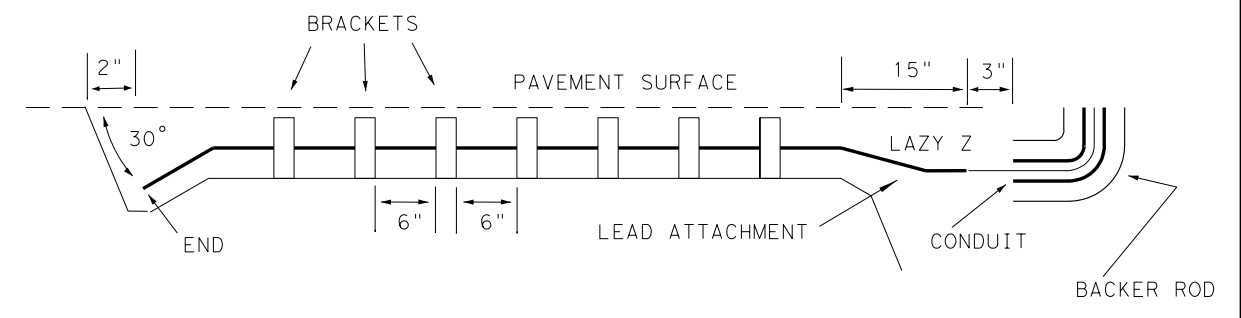


**TYPICAL CORNER DETAILS**

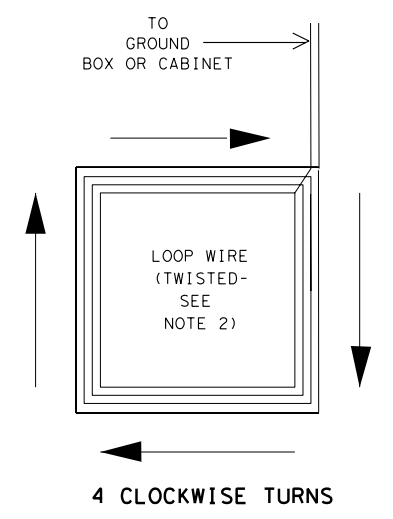


7" OVERRUN BASED ON 24" DIAMETER SAW BLADE

**TYPICAL CLASS II (BRASS LINGUINI) CROSS SECTION PIEZOELECTRIC SENSOR**



**LOOP WINDING DETAILS**



DRAFT

**GENERAL NOTES:**

- The pavement cut is to be made with a concrete saw to neat lines and loose material removed. The cut shall be clean and dry when the wire and sealing compound is placed.
- Loop wire shall be 14 AWG Stranded Type THW. Wire from the loop to the ground box or cabinet shall be twisted a minimum of 5 turns per foot. No splices shall be permitted in the loop or in the run to the ground box. For loops within 3 undivided lanes of the cabinet, run wire or lead-in directly to the cabinet with no splices.
- The home run cable, if necessary for the loop, from the ground box to the cabinet shall be 14 AWG Stranded Type THW and shall be soldered to the loop wire. The solder joints shall be sealed with Scotchcast or other method acceptable to the Engineer.
- Lead-in wire for piezoelectric sensors shall be 50 ohm coaxial cable with a BNC barrel connector. No splices shall be permitted in the sensor or in the run to the ground box. For sensors within 3 undivided lanes of the cabinet, run lead-in directly to the cabinet with no splices.
- All wire, lead-in and sensors placed in the saw cut shall be sealed by fully encapsulating it in a sealant acceptable to the Engineer. Sealing compound and epoxy shall be in accordance with Special Specification (####).
- The loop and sensor location and configuration and number of turns for the loop shall be as indicated on the plans or as directed by the Engineer.
- A separate saw cut shall be made from each loop to the edge of pavement or as specified by the Engineer. The wire or lead-in cable for each pair of piezoelectric sensors shall be run in the same saw cut as the associated loop. Each loop and the associated piezoelectric sensor pair shall be run in their own 1" or 2" PVC conduit from the edge of the roadway to either the ground box or cabinet or as directed by the Engineer.
- Splices, if applicable, between the loop lead-in cable and loop or the sensor lead-in cable and the piezoelectric sensor shall be made only in the ground box near the loop or sensor it is serving.
- Visually inspect the length of BL piezoelectric sensor to ensure it is at uniform depth along its length and is level (not twisted, canted, or bent).

STANDARD PLANS  
 Texas Department of Transportation  
 Transportation Planning and Programming Division

**TRAFFIC DATA COLLECTION  
 INSTALLATION DETAILS**

TDC(1)-05

TxDOT July 2005		DN-CLW	CKI-WEK	DN-PMC	CKI-JLR
REVISIONS	STATE DISTRICT	FEDERAL SECTION	FEDERAL AID PROJECT		SHEET
7-05		6			
	COUNTY	CONTROL	SECTION	JOB	HIGHWAY