CONTRACT NO. 88798

 F.A.P. RTE.	SECTION	1 (OUNT	1	TOTAL	SHEE!
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FED. ROAD	DEST. NO.	ILLINOIS	FED.	AID	PROJEC	T

*(101BY)BR:(28-BR)I ** WARREN COUNTIES

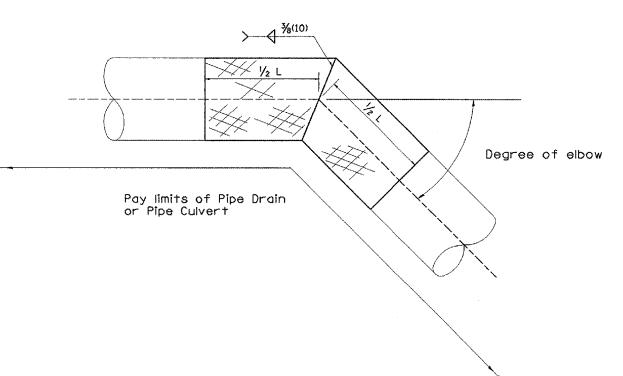


TABLE A							
ELBOW DESIGN CONTROLS							
PIPE DIAMETER	L = Minimum length of pipe required for fabrication						
FIFE DIAMETER	DEGREE OF ELBOW <pre></pre>	DEGREE OF ELBOW > 46°					
12(300)	24(600)	4′(1,22M)					
15(375)	24(600)	4′(1.22M)					
18(450)	24(600)	4′(1 . 22M)					
21(525)	24(600)	4′(1.22M)					
24(600)	4′(1.22M)	4′(1.22M)					
30(750)	4′(1.22M)	6′(1.83M)					
36(900)	4′(1.22M)	6′(1.83M)					

 TABLE B

 ELBOW DESIGN CONTROLS

 EARTH SLOPE (V:H)
 DEGREE OF ELBOW *

 1:6
 9°

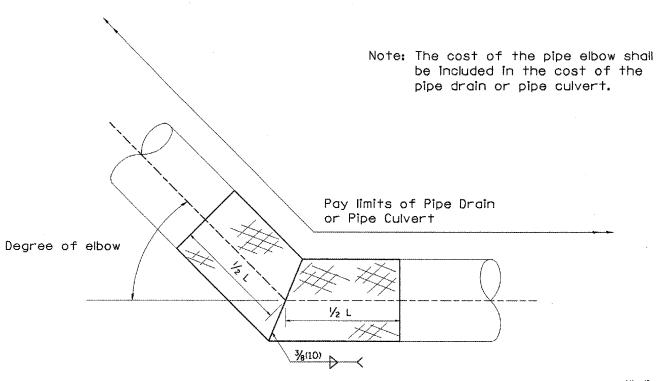
 1:4
 14°

 1:3
 18°

 1:2
 26°

 1:1½
 33°

* Approximate - based upon 0.5% inlet and outlet flowlines.



All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIPE ELBOW DETAIL

CADD STD. NO. 601301-D4

DRAWN BY CADD CHECKED BY