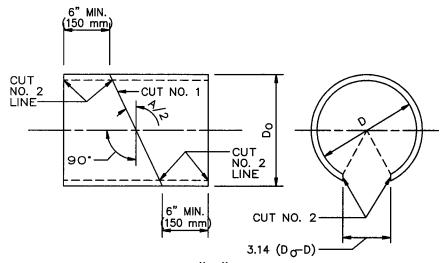
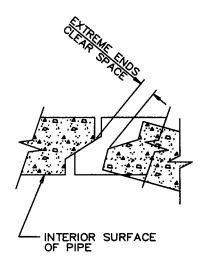


	D			٦			Т		
12"	(300	mm)	12"	(300	mm)	4"	(100	mm)	
18"	(450	mm)	12"	(300	mm)	5"	(125	mm)	
24"	(600	mm)	12"	(300	mm)	6"	(150	mm)	
30"	(750	mm)	18"	(450	mm)	7"	(175	mm)	
36"	(900	mm)	18"	(450	mm)	9"	(225	mm)	
42"	(1050	mm)	18"	(450	mm)	3	(225	mm)	
48"	(1200	mm)	18"	(450	mm)	10"	(250	mm)	
57"	(1425	mm)	18"	(450	mm)	10"	(250	mm)	
60"	(1500	mm)	21"	(525	mm)	11"	(275	mm)	
66"	(1650	mm)	21"	(525	mm)	11"	(275	mm)	
72"	(1800	mm)	24"	(600	mm)	12"	(300	mm)	



DETAIL "A" (SEE NOTE 10) SONO-TUBE, OR EQUAL, INTERIOR FORM

CUT NO. 1: SAW THE TUBE AT AN ANGLE OF A/2 WITH THE TRANSVERSE PLANE. REVERSE ONE SECTION AND TAPE BOTH SECTIONS TOGETHER FORMING THE DEFLECTION ANGLE A. CUT NO. 2: SAW THE TUBE LONGITUDINALLY REMOVING A STRIP
3.14 (DO-D) WIDE ON THE SIDE OPPOSITE THE OPEN JOINT.
BEND THE ENDS OF THE CUT TOGETHER AND INSERT THE
TUBE IN THE PIPE.



DETAIL "B" TYPICAL JOINT FOR REINFORCED CONCRETE PIPE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
1992 REV. 1996, 1997, 1999, 2009

CONCRETE COLLAR FOR RCP (300 mm) THROUGH (1800 mm

STANDARD PLAN

380

NOTES

- A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 10%.
- 2. FOR CURVE JOINTS (SEE DETAIL B, SHEET 1)

IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS GREATER THAN 1" (25 mm), BUT IS LESS THAN 3" (75 mm) A CONCRETE COVER IS REQUIRED IN ACCORDANCE WITH SSPWC 306-1.2.4.

IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS EQUAL TO OR GREATER THAN 3" (75 mm), BUT LESS THAN 6" (150 mm), A CONCRETE COLLAR IS REQUIRED. IF THE CLEAR SPACE IS 6" (150 mm) OR GREATER, A TRANSITION STRUCTURE IS REQUIRED.

- 3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
- 4. CONNECTOR PIPES
 - A. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D1 OR D2, WHICHEVER IS GREATER.

 B. WHEN D1 IS EQUAL TO OR LESS THAN D2, JOIN INVERTS AND
 - WHEN DI IS GREATER THAN D2, JOIN SOFFITS.
- 5. FOR PIPE LARGER THAN 72" (1800 mm) SPECIAL COLLAR DETAILS ARE REQUIRED.
- 6. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
- 7. REINFORCEMENT SHALL CONFORM TO ASTM A 615 (A 615 M) GRADE 40 (300).
- 8. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2X WALL THICKNESS) + T.
- 9. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" (525 mm) AND ON ALL PIPES WHERE THE SPACES BETWEEN THE EXTREME OUTER ENDS IS 3" (75 mm) OR LARGER.

CIRCULAR TIES:

PIPE DIAMETER	NO. OF CIRCULAR TIES
21" (525 mm) OR LESS	3
24" (600 mm) TO 30" (750 mm)	3
33" (825 mm) TO 57" (1425 mm)	4
60" (1500 mm) TO 72" (1800 mm)	5

WHERE THE SPACE BETWEEN PIPE ENDS EXCEEDS 3" (75 mm), THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN AN APPROXIMATE SPACING OF 6" (150 mm) 0.C.

10. WHERE THE PIPE IS 21" (525 mm) OR LESS IN DIAMETER AN INTERIOR FORM OF UNSEALED SONO—TUBE OR EQUAL SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE (SEE DETAIL A). WHEN THE PIPE IS 24" (600 mm) OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.

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