NOTES

- I. A concrete collar is required whenever D_1 is unequal to D_2 , or the permitted deflection at a pipe joint is exceeded, when angle "A" is greater than the permitted deflection angle (see Table).
- 2. Concrete collars shall not be constructed on main line storm drains unless shown on the plans or ordered by the Engineer.
- 3. Reinforcing shall be used where the pipe diameter is greater than 21 inches and on all pipes where the pull between the extremities (see Detail A) is 2 1/2" or larger.
- 4. Circulor Ties:

Pipe Diameter	Space Between Pipe Extremeties	Number of Circular Ties
21" or less	2 1/2"	3
24" to 30"	2 1/2" or less	3
33" to 57"	2 1/2" or less	4
60" to 66"	2 1/2" or less	5

Where the space between the pipe extreminities exceeds 2 1/2 inches, the number of circular ties shall be increased to maintain a maximum spacing of 6 inches center to center. Circular ties shall have a diameter 5 inches greater than the outside diameter of the larger pipe.

- 5. For pipe larger than 66 inches in diameter, a special collar detail shall be delineated on the project plans.
- 6. Where the pipe is 21 inches or less in diameter, an interior form of unsealed Sono-Tube, or equal, (see Detail B), shall be used to provide a smooth interior joint. The paper form may be left in place. When the pipe is 24 inches or larger, a removable interior form shall be used or the interior joint shall be completely filled with mortar and neatly pointed.
- 7. Where pipes of different diameters are joined with a concrete collar, L shall be that of the larger pipe and the external diameter of the collar shall be equal to the outside diameter of larger pipe plus 2T for the larger pipe. A concrete collar shall not be constructed connecting a larger diameter pipe upstream to a smaller diameter pipe downstream unless shown on the improvement plans or ordered by the Engineer.
- 8. The value for angle "A" shall be shown on the improvement plans.
- 9. Where the slope of the upstream pipe is greater than the slope of the downstream pipe, join soffits. Where the slope of the upstream pipe is less than the slope of the downstream pipe, join inverts.
- 10. Beveled pipe may be used in lieu of a concrete collar if approved by the Engineer.
- II. For pipe size not listed in the Table, use values of L, T, and "A" for the next larger size listed.

DRAWN PLS.	CITY OF FULLERTON ENGINEERING DEPARTMENT	REVISED
STD. NO.	REINFORCED CONCRETE COLLAR-NOTES	
332		
2 of 2	APPROVED SILECTOR OF ENGINEERING DATE 3/16/95	