

NOTES:

1. A CONCRETE COLLAR IS REQUIRED WHENEVER D2 IS UNEQUAL TO D1 OR THE PERMITTED DEFLECTION AT A PIPE JOINT IS EXCEEDED (I.E., WHEN ANGLE "A" IS GREATER THAN THE PERMITTED DEFLECTION ANGLE, SEE TABLE IN SD-5a).
2. CONCRETE COLLARS SHALL NOT BE CONSTRUCTED ON MAIN STORM DRAINS UNLESS DIRECTED AND APPROVED BY THE CITY ENGINEER.
3. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" AND ON ALL PIPES WHERE THE PULL BETWEEN THE EXTREMITIES (SEE REINFORCED CONCRETE PIPE JOINT DETAIL) IS 2½" OR LARGER.
4. FOR PIPES 21" OR LESS IN DIAMETER, AN INTERIOR FORM OF UNSEALED SONO-TUBE OR APPROVED EQUAL (SEE INTERIOR FORM DETAIL) SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE. WHEN THE PIPE IS 24" OR LARGER, A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.
5. A CONCRETE COLLAR SHALL NOT BE CONSTRUCTED CONNECTING A LARGER DIAMETER PIPE UPSTREAM TO A SMALLER DIAMETER PIPE DOWNSTREAM UNLESS DIRECTED AND APPROVED BY THE CITY ENGINEER.
6. 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.
7. FOR PIPE SIZES NOT LISTED IN THE TABLE, USE VALUES OF L, T, AND A FOR THE NEXT LARGER SIZE.
8. WHEN THE SPACE BETWEEN THE PIPE EXTREMITIES EXCEEDS 2½", THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN A MAXIMUM SPACING OF 6" CENTER TO CENTER. CIRCULAR TIES SHALL HAVE A DIAMETER OF 5" GREATER THAN THE OUTSIDE DIAMETER OF THE LARGER PIPE.

(Not To Scale)



**ENGINEERING
DEPARTMENT**

**REINFORCED CONCRETE
COLLAR NOTES**


JOHN E. STEVENSON CITY ENGINEER

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REVISED:

SHEET NO.

SD-5b