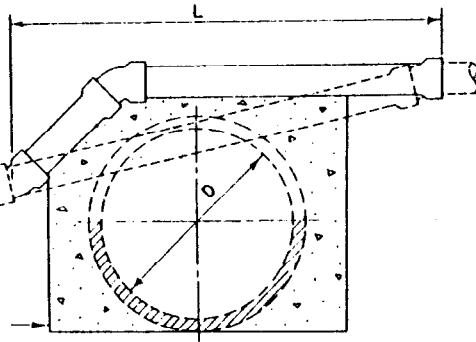
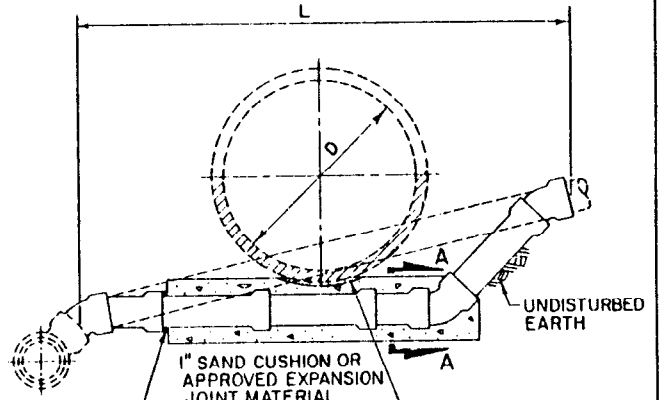


CONCRETE SUPPORT WALL (SEE NOTE 11)

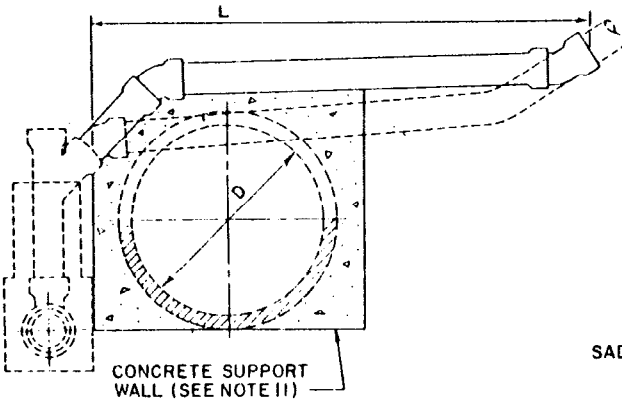


CASE A

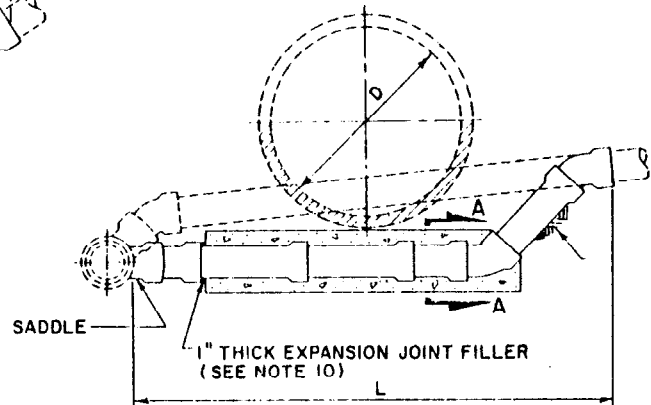
1" THICK EXPANSION JOINT FILLER (SEE NOTE 10)



CASE D

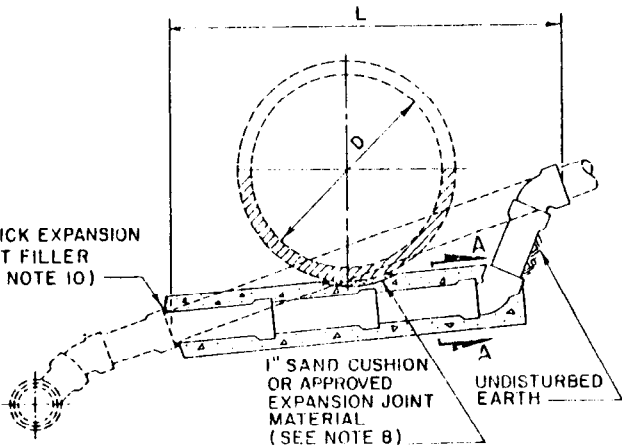


CASE B

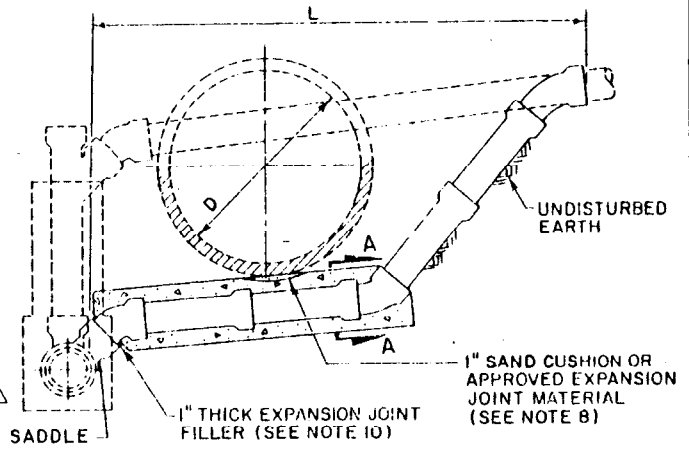


CASE E

1" THICK EXPANSION JOINT FILLER (SEE NOTE 10)



CASE C



CASE F

DEPARTMENT OF PUBLIC WORKS

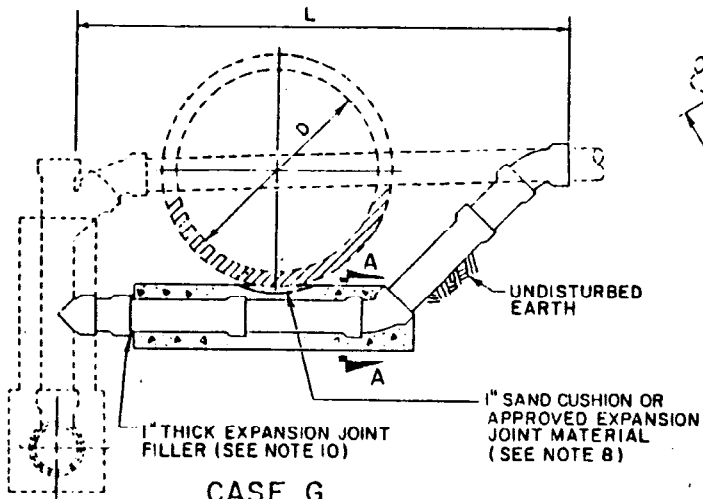
BUREAU OF ENGINEERING

CITY OF LOS ANGELES

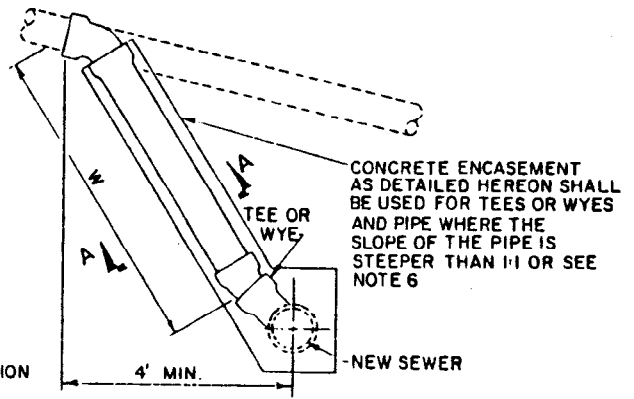
HOUSE CONNECTION REMODELING

STANDARD PLAN
S-III-O

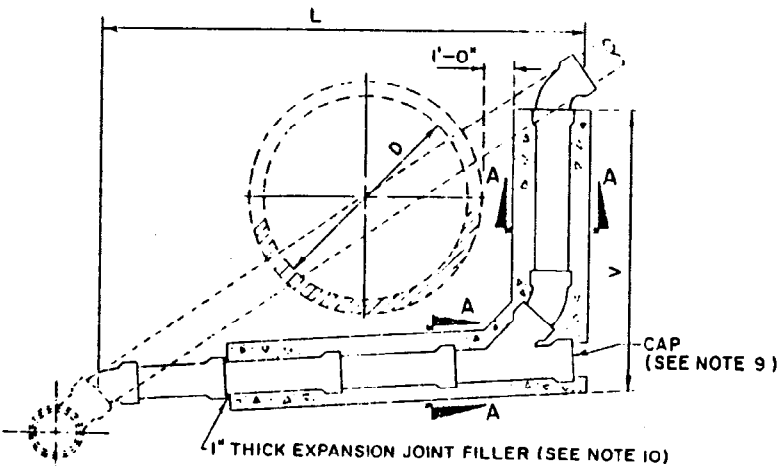
SUBMITTED <i>March 20, 1960</i>			REVISIONS				SUPERSEDES	REFERENCES
<i>Lawrence J. Miller</i> CIVIL ENGINEER OF DESIGN <i>Richard J. Brown</i> DEPUTY ENGINEER			NO.	DATE	DESCRIPTION	ENGR. OF DESIGN	CITY ENGR.	
APPROVED <i>March 26, 1960</i>								
<i>Donald C. Hillman</i> CITY ENGINEER							D-21444 S-110 S-160 S-253	
DESIGNED BY	DRAWN BY	CHECKED BY					Vault INDEX NUMBER B-3997	
LIE	RGH	LJM					SHEET 1 OF 3 SHEETS	



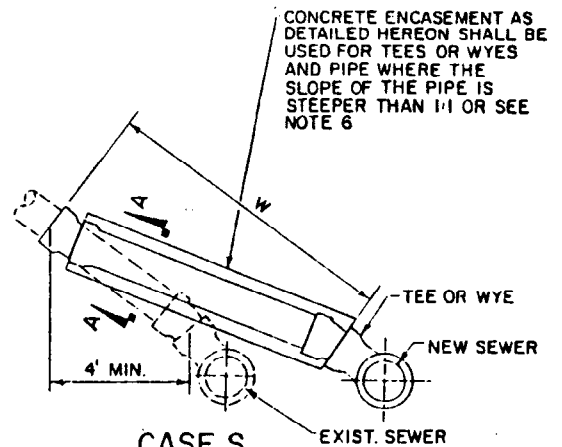
CASE G



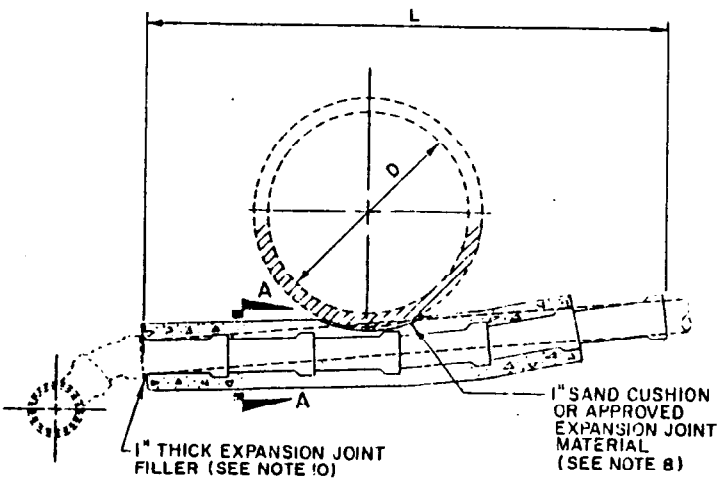
CASE R



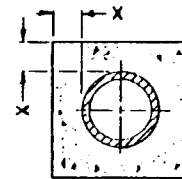
CASE H



CASE S



CASE K



NOMINAL DIA OF PIPE (INCHES)	MINIMUM DIMENSIONS X (INCHES)
6	3
8	4
10	5
12	6

**SECTION A-A
CONCRETE ENCASEMENT DETAILS**

(SEE NOTE 5)

NOTES FOR HOUSE CONNECTION REMODELING

1. EXCEPT AS OTHERWISE INDICATED HEREON OR ON THE PROJECT PLANS, ALL HOUSE CONNECTION REMODELING SHALL CONFORM TO THE APPLICABLE PORTIONS OF STANDARD PLAN S-110, HOUSE CONNECTION SEWERS, AND THE SIZE SHALL BE 6 INCHES IN DIAMETER.
2. SEE PROJECT PLANS FOR VALUES OF D, L, V, AND W. (DIMENSION L IS THE HORIZONTAL LENGTH OF THE HOUSE CONNECTION REMODELING.)
3. EXISTING SEWERS ARE INDICATED BY DASHED LINES. HOUSE CONNECTION SEWERS TO BE CONSTRUCTED ARE INDICATED BY SOLID LINES AND SHALL BE OF THE SAME MATERIAL AS THE EXISTING SEWER. THE CONTRACTOR MAY CONSTRUCT THE SEWER WITH OTHER MATERIALS ALLOWED PER STANDARD PLAN S-110, PROVIDED HE UTILIZES APPROVED ADAPTORS.
4. 1/16 (22-1/2°) OR 1/8 (45°) BENDS SHALL BE USED TO REMODEL OR CONSTRUCT ANY SEWER ON A CURVE OR AT ANY CHANGE IN ALIGNMENT. WHERE PHYSICAL OR GEOMETRIC LIMITATIONS PRECLUDE THE USE OF 1/16 OR 1/8 BENDS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL HIS PROPOSED METHOD OF REMODELING OR CONSTRUCTION.
5. ALL HOUSE CONNECTION SEWERS TO BE CONSTRUCTED UNDER A PROPOSED CONDUIT SHALL BE ENCASED IN CONCRETE AS SHOWN HEREON. WHEN THE HOUSE CONNECTION SEWER SLOPE EXCEEDS 1:1, THE CONTRACTOR MAY, AT HIS OPTION, PLACE A CIRCULAR CROSS SECTION WITH MINIMUM COVER EQUAL TO DIMENSION "X" AS SHOWN ON SECTION A-A HEREON IN LIEU OF A SQUARE CROSS SECTION OF CONCRETE. CONCRETE FOR BEDDING AND ENCASEMENT SHALL BE CLASS 420-C-2000 CONFORMING TO SECTION 201 OF THE STANDARD SPECIFICATIONS, AND SHALL EXTEND TO THE FIRST PIPE JOINT AT LEAST 1 FOOT BEYOND THE O.D. OF EACH SIDE OF THE PROPOSED CONDUIT.
6. FOR CASES R AND S, WHEN THE SLOPE OF THE PIPE EXCEEDS 1:1, THE CONTRACTOR MAY, AT HIS OPTION, CONSTRUCT A CHIMNEY CONFORMING TO STANDARD PLAN S-160 ON THE NEW SEWER IN LIEU OF CONSTRUCTING THE ENCASEMENT SHOWN HEREON.
7. FOR CASES E AND F, SADDLES SHALL BE CONNECTED EITHER TO THE LENGTH OF PIPE CONTAINING THE EXISTING TEE OR WYE OR TO THE ADJACENT DOWNSTREAM PIPE LENGTH.
8. CONDUITS TO BE INSTALLED OVER OR WITHIN ONE INCH OF ANY CONCRETE ENCASEMENT OR STRUCTURE, WHETHER EXISTING OR TO BE PLACED IN CONFORMITY WITH THE REQUIREMENTS HEREIN, SHALL BE INSTALLED ON A ONE-INCH SAND CUSHION OR APPROVED EXPANSION JOINT MATERIAL. CONCRETE ENCASEMENT INSTALLED PURSUANT TO THIS STANDARD PLAN SHALL BE SEPARATED FROM EXISTING CONDUIT WITH ONE-INCH THICK EXPANSION JOINT MATERIAL.
9. THOSE PORTIONS OF AN ABANDONED PIPE LOCATED BENEATH OR WITHIN 6 INCHES OF A RELOCATED HOUSE CONNECTION SEWER SHALL BE REMOVED. THE EXCAVATION SHALL BE REFILLED TO THE GRADE OF THE NEW PIPE INVERT WITH CLASS 100-E-100 CONCRETE CONFORMING TO SECTION 201 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR, MAY AT HIS OPTION, SUBSTITUTE MECHANICALLY COMPACTED BACKFILL CONFORMING TO SECTION 306-1.3.2 OF THE STANDARD SPECIFICATIONS IN LIEU OF THE CLASS 100-E-100 CONCRETE. THOSE PORTIONS OF ABANDONED PIPE NOT REMOVED SHALL BE SEALED IN CONFORMANCE WITH SECTION 306-5 OF THE STANDARD SPECIFICATIONS. WHERE CAPS ARE USED, THEY SHALL BE SEALED BY FILLING THE SPACE ABOVE THE CAP WITH SAND AND A 1/2-INCH-THICK COATING OF TYPE "F" MORTAR.
10. EXPANSION JOINT FILLERS SHALL CONFORM TO SECTION 201-3.2 OF THE STANDARD SPECIFICATIONS.
11. SUPPORT WALLS SHALL CONFORM TO STANDARD PLAN S-253.