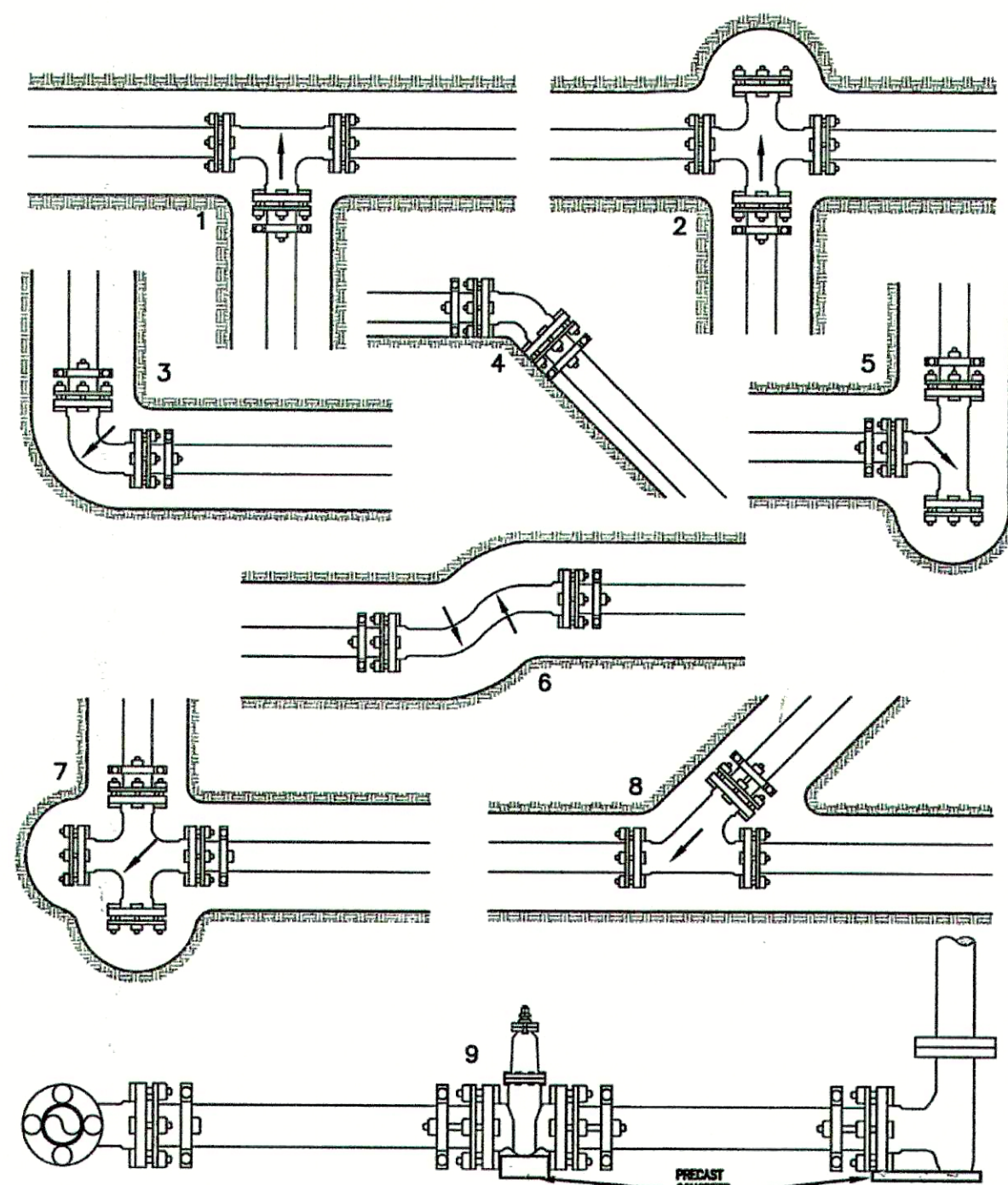
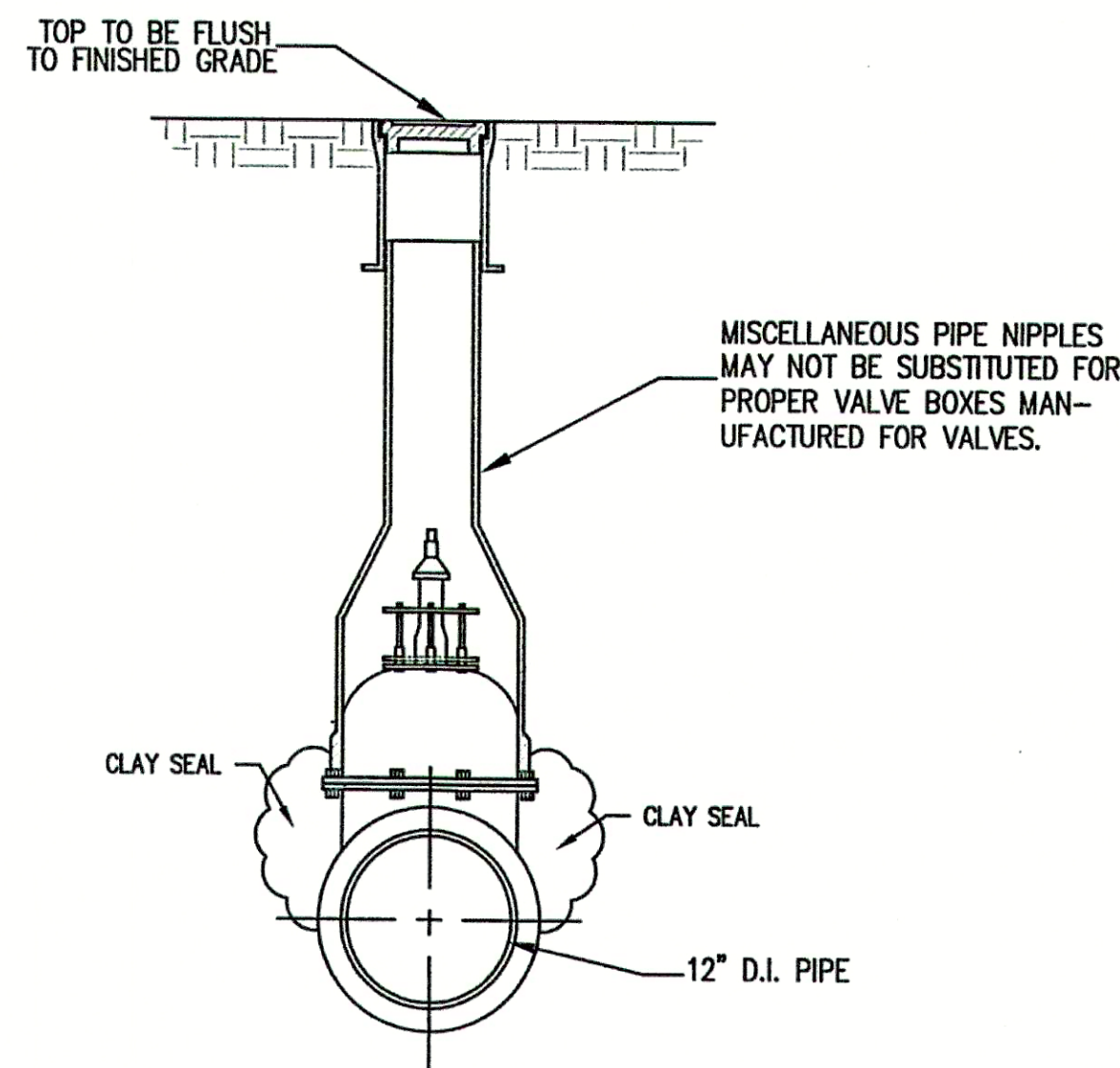


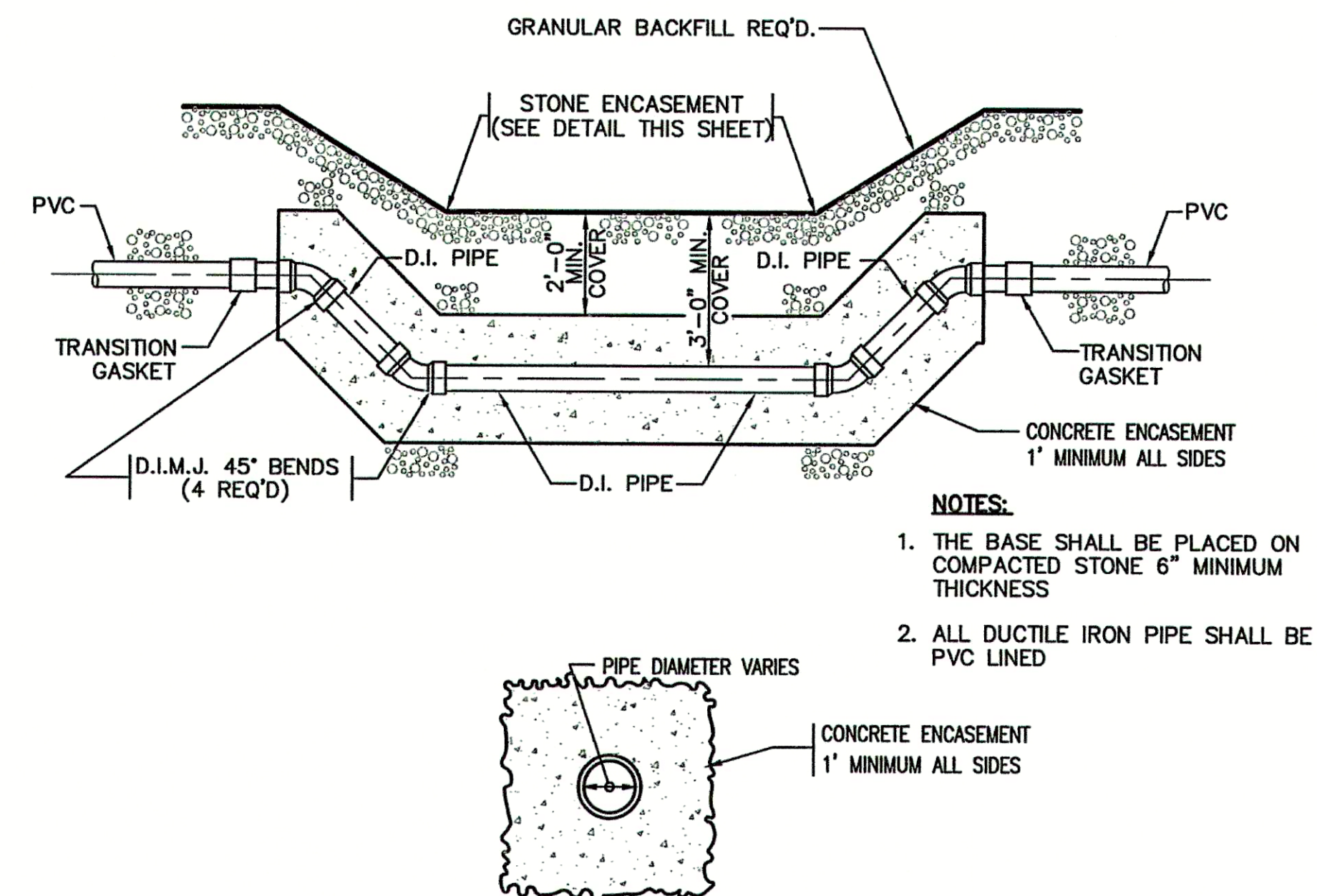


1. THRU LINE CONNECTION, TEE
2. THRU LINE CONNECTION, CROSS USED AS TEE
3. DIRECTION CHANGE, ELBOW
4. DIRECTION CHANGE VERTICAL, BEND
5. DIRECTION CHANGE, TEE USED AS ELBOW
6. DIRECTION CHANGE, CROSS USED AS ELBOW
7. DIRECTION CHANGE, CROSS USED AS TEE
8. THRU LINE CONNECTION, WYE
9. HYDRANT RUNOUT

1 TYPES OF JOINT RESTRAINING
NOT TO SCALE

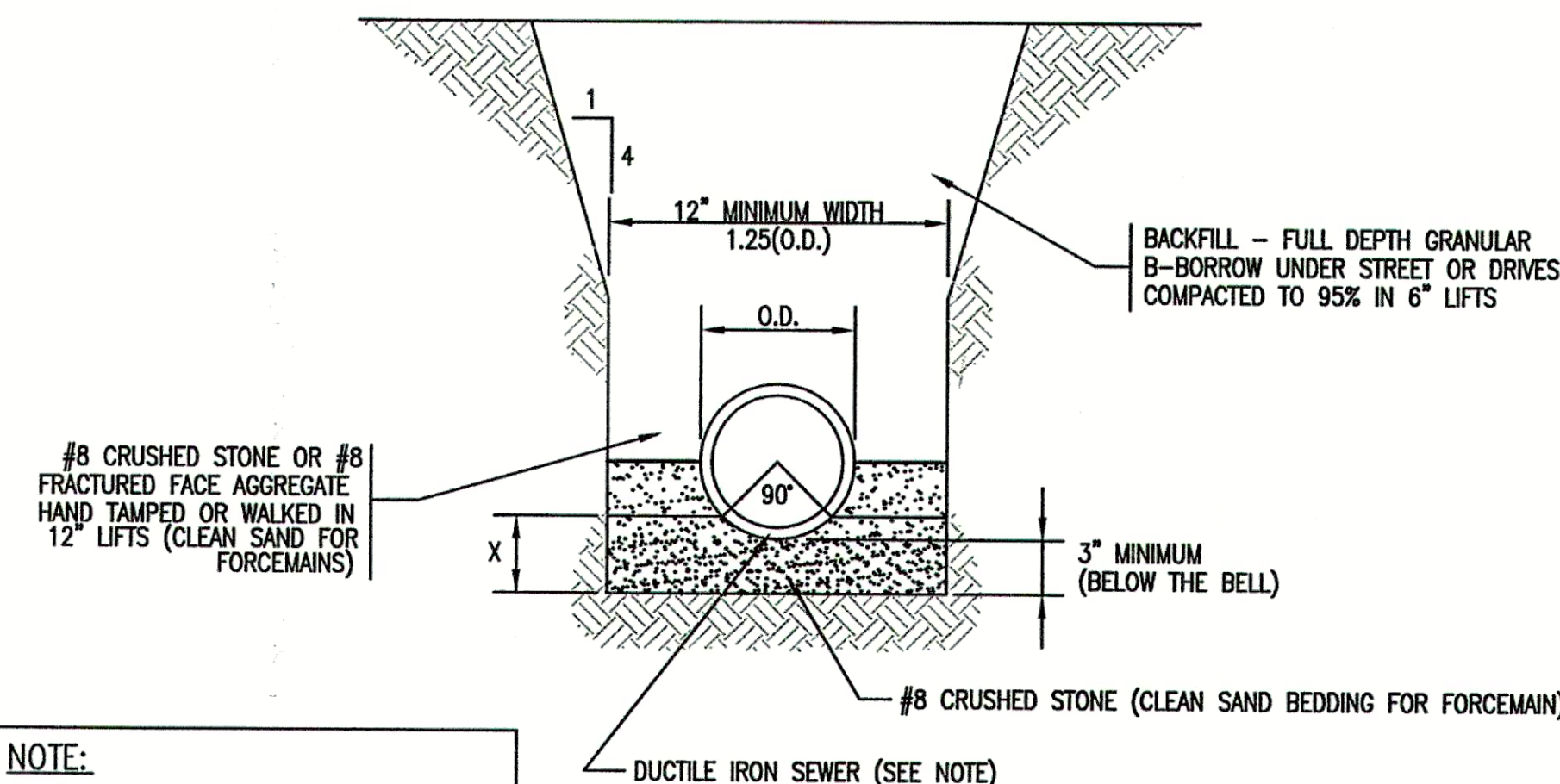


2 VALVE BOX SECTION
NOT TO SCALE



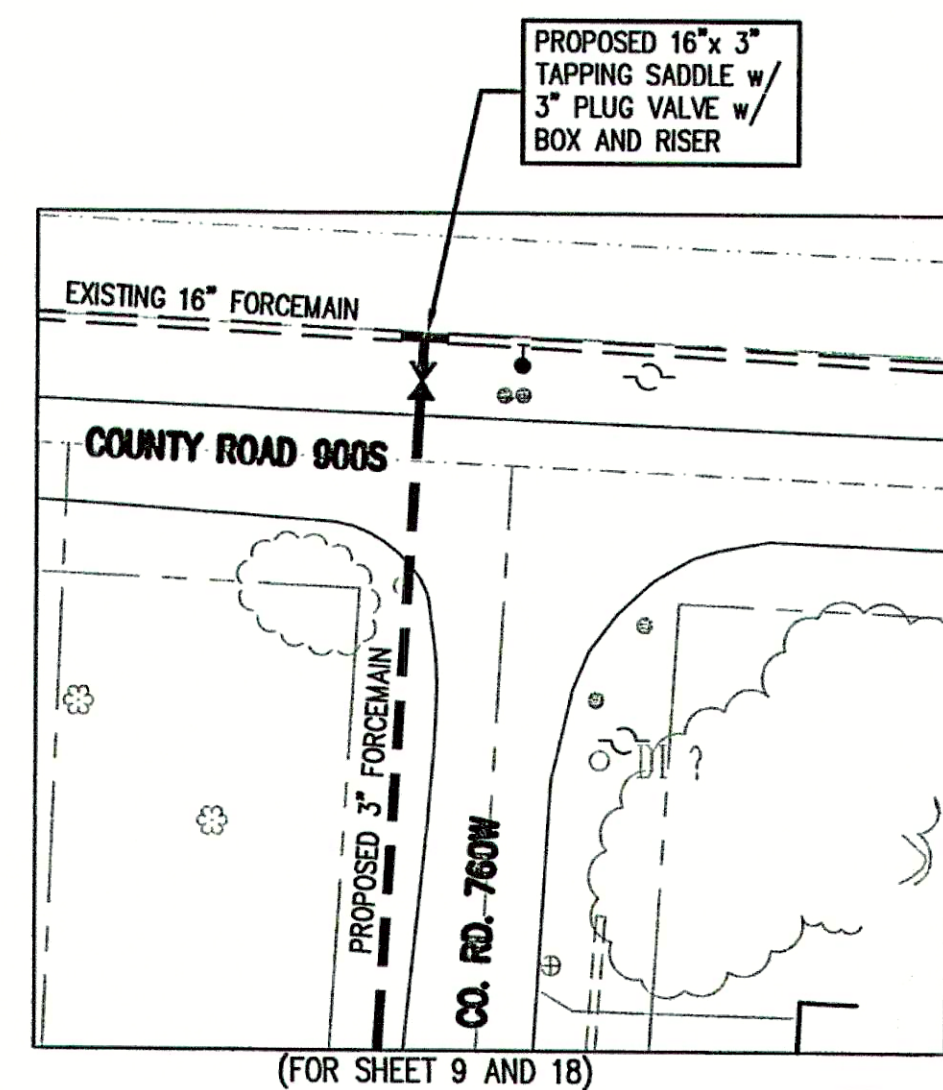
3 TYPICAL CREEK CROSSING FOR FORCEMAIN
NOT TO SCALE

PIPE SIZE	BELOW 8"	8" TO 15"	18" & OVER
BEDDING BELOW THE PIPE BARREL - "X"	O.D./8 4" MIN.	O.D./8 4" MIN.	O.D./8 4" MAX.

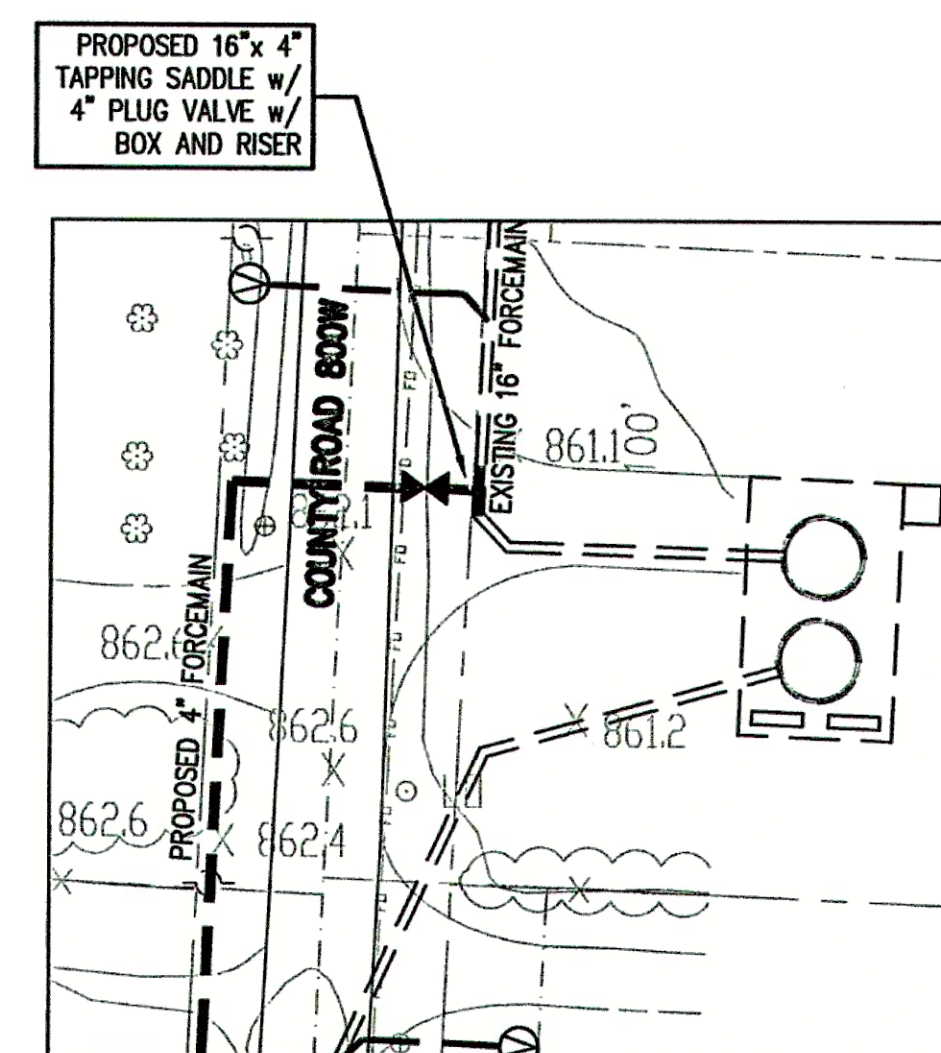


NOTE:
ANY PVC PIPING SHOWN ON PLANS ARE TO BE BACKFILLED WITH #8 STONE MATERIAL TO 12" ABOVE CROWN OF PIPE.

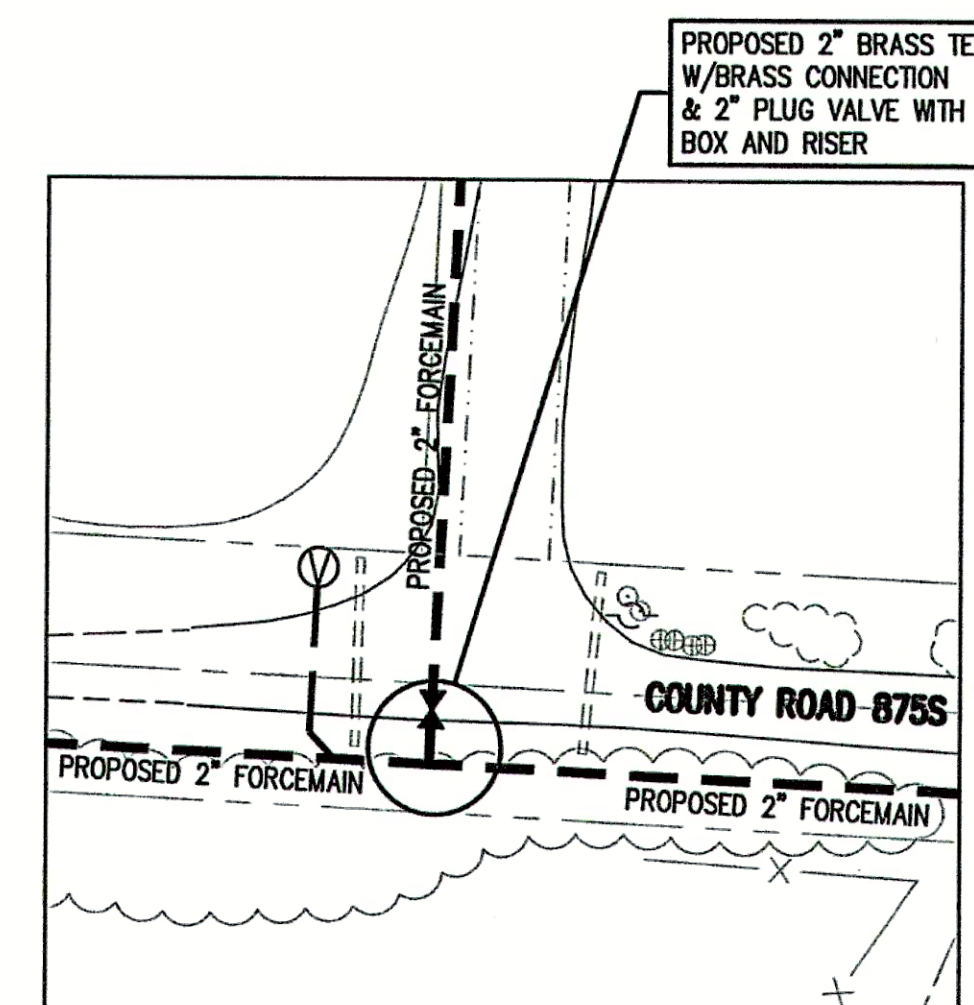
4 TYPICAL PIPE BEDDING DETAIL
NOT TO SCALE



CONNECTION DETAIL 'A'
SCALE: 1" = 30'



CONNECTION DETAIL 'B'
SCALE: 1" = 30'



CONNECTION DETAIL 'C'
SCALE: 1" = 30'

CONSULTANT:

REVISIONS:

DATE	DESCRIPTION	BY
12-8-04	REVISED PER F.C.R.W.D.	BKY
12-21-04	MISC. REVISIONS	BKY
5-18-06	RECORD DRAWINGS	CJF

APPROVED BY:

RECORD DRAWING

This drawing has been revised from the original contract drawings to show minor / major changes made during construction. This drawing is not warranted to be complete and accurate in all respects.

GRW Engineers, Inc.

Date: 5-18-06 By: CJF

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INDIANAPOLIS, INDIANA 46216
PHONE: 317-377-5230 FAX: 317-377-5241

DESIGNED FOR:

FALL CREEK REGIONAL WASTE DISTRICT
SANITARY SEWER ADDITIONAL
CONNECTIONS AND SERVICE CONNECTIONS

SHEET TITLE:

PROPOSED MISCELLANEOUS DETAILS

JOB NUMBER: 200402E	CHECKED BY: J.W.F.
SCALE: AS NOTED	PLOT DATE: 12/21/04
PLOT SCALE: 1" = 1'	DATE: NOVEMBER 2004
DRAWN BY: DAP	DESIGNED BY: Michael P. Hunter, P.E.
DRAWING NAME: 200402E-DET2	

SHEET No.

21

OF 21