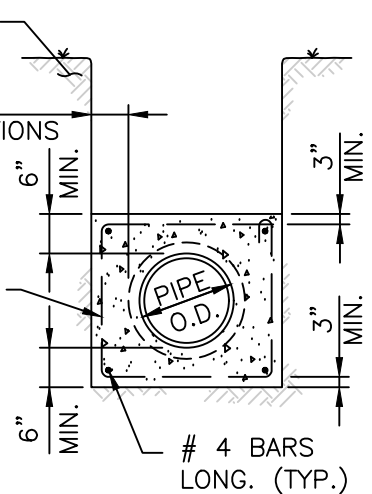


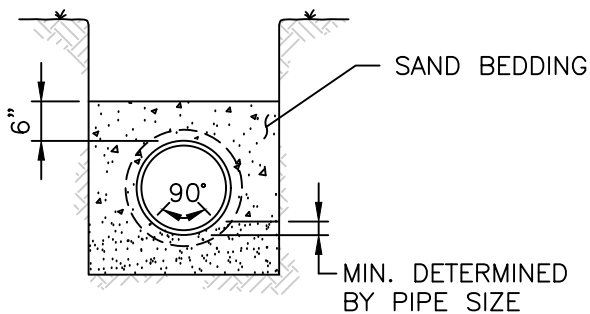
TYPE "A"

VARIABLE, DEPENDING UPON
PIPE SIZE AND SOIL CONDITIONS

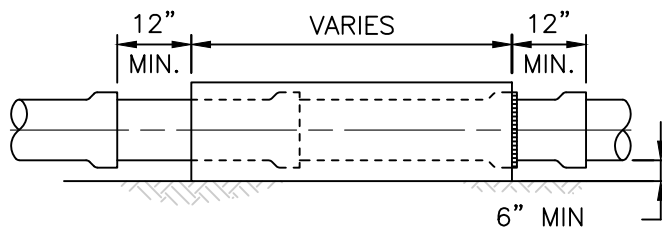
#4 @ 24"
C/C (TYP.)



TYPE "B"



TYPE "C"



SECTION

NOTES:

1. ENCASEMENT TO BE PLACED AGAINST UNDISTURBED NATURAL GROUND OR FILL COMPACTED TO 90% RELATIVE COMPACTION.
2. NO. 4 STEEL REINFORCING BARS SHALL BE USED AS SPECIFIED.
3. TYPE OF CONCRETE ENCASEMENT TO BE USED WILL BE SHOWN ON PLANS OR AS SPECIFIED BY INSPECTOR TO MEET UNFORSEEN FIELD CONDITIONS.
4. WHERE SLOPE TRENCHES ARE USED, WALLS WILL NOT BEGIN TO SLOPE CLOSER THAN 12" FROM THE TOP OF THE PIPE.
5. ENCASEMENT CONCRETE TO BE CLASS 560-C-3250.

David D. Dief 1/31/2023
CITY WATER MANAGER

James B. Dief 1/31/2023
CITY ENGINEER

John A. Dief 1/31/2023
PUBLIC WORKS DIRECTOR

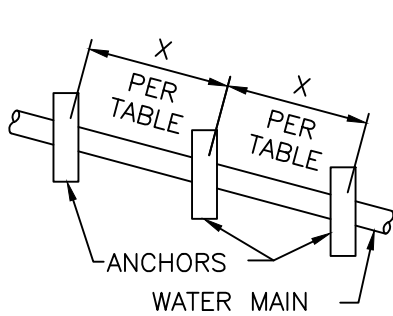
CITY OF ORANGE WATER DIVISION STANDARDS

CONCRETE ENCASEMENT AND SLOPE ANCHORS

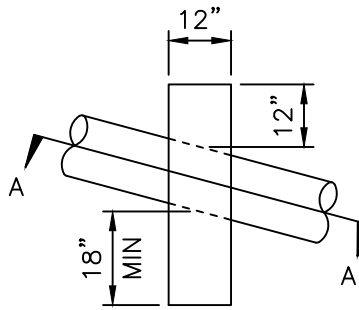
OWD STD. DWG.

OWD-112

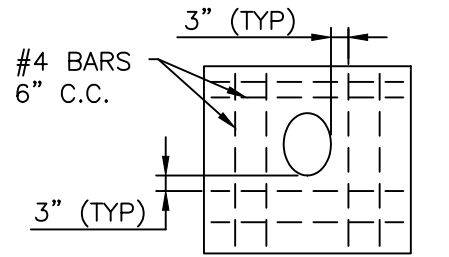
SHEET 1 OF 2



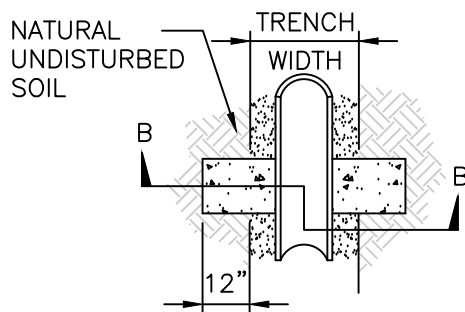
ELEVATION



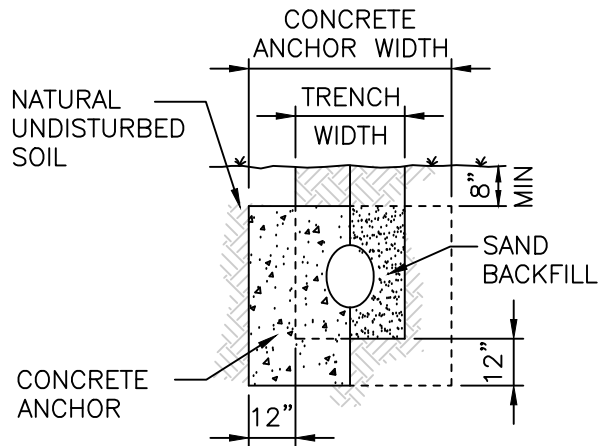
ANCHOR DETAIL



REINFORCING STEEL PATTERN



SECTION A-A



SECTION B-B

TABLE

PIPE SLOPE	X DISTANCE
20% TO 35%	36'
35% TO 50%	24'
> 50%	16'

NOTES:

1. PIPE ANCHORS REQUIRED ON ALL SLOPES OF 20% OR GREATER.
2. ANCHOR SHALL EXTEND 12" INTO NATURAL UNDISTURBED SOIL.
3. CONCRETE SHALL BE CLASS 560-C-3250.
4. ANCHORS FOR TRAPEZOIDAL TRENCH SECTIONS WILL CONFORM TO TRENCH CROSS SECTION AND EXTEND 12" INTO UNDISTURBED SOIL.
5. DO NOT EXTEND D.I.P. POLY BAG THRU ANCHORS – SEAL BAG TO PIPE ON EACH SIDE OF EACH ANCHOR.

David L. Dief 1/31/2023
CITY WATER MANAGER

James B. 1/31/2023
CITY ENGINEER

John A. 1/31/2023
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CITY OF ORANGE WATER DIVISION STANDARDS

CONCRETE ENCASEMENT AND SLOPE ANCHORS

OWD STD. DWG.

OWD-112

SHEET 2 OF 2