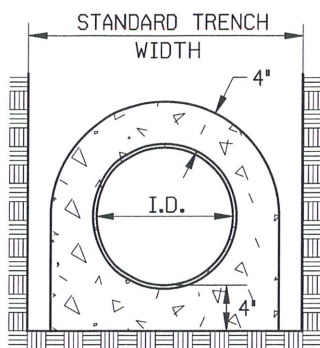
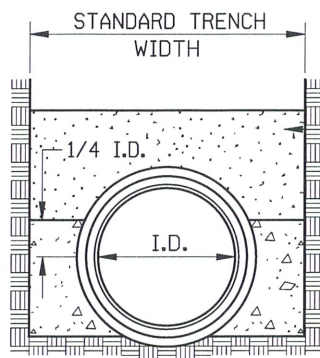




CONCRETE ENCASEMENT

CONCRETE PER LIN. FT.

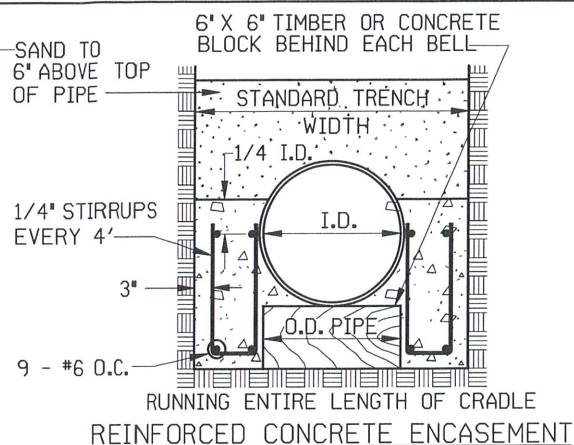
8" I.D. CIP,VCP,RCP	1.41	CU.FT.
10" I.D. "	1.67	"
12" I.D. "	1.93	"
15" I.D. "	2.36	"
18" I.D. "	2.81	"
21" I.D. "	3.27	"
24" I.D. "	3.76	"
27" I.D. "	4.26	"
30" I.D. CIP, VCP	4.78	"
30" I.D. RCP	5.09	"
36" I.D. CIP, VCP	5.80	"
36" I.D. RCP	6.20	"



CONCRETE CRADLE

CONCRETE PER LIN. FT.

8" I.D. CIP,VCP,RCP	1.09	CU.FT.
10" I.D. "	1.23	"
12" I.D. "	1.33	"
15" I.D. "	1.66	"
18" I.D. "	2.00	"
21" I.D. "	1.96	"
24" I.D. "	2.69	"
27" I.D. "	3.52	"
30" I.D. CIP, VCP	3.38	"
30" I.D. RCP	4.40	"
36" I.D. CIP, VCP	4.12	"
36" I.D. RCP	5.26	"



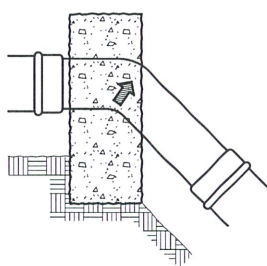
REINFORCED CONCRETE ENCASEMENT

CONCRETE PER LIN. FT.

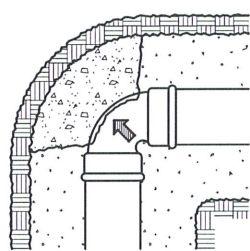
8" I.D. CIP,VCP,RCP	2.34	CU.FT.
10" I.D. "	2.48	"
12" I.D. "	2.58	"
15" I.D. "	3.04	"
18" I.D. "	3.50	"
21" I.D. "	3.46	"
24" I.D. "	4.44	"
27" I.D. "	5.52	"
30" I.D. CIP, VCP	5.38	"
30" I.D. RCP	6.65	"
36" I.D. CIP, VCP	6.37	"
36" I.D. RCP	7.76	"

NOTE:

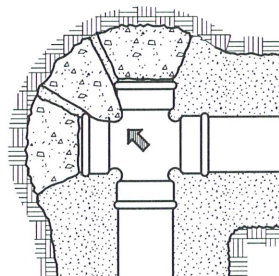
THRUST BLOCKS FOR JOINT RESTRAINT ARE TO BE USED BY VARIANCE ONLY AND REQUIRE PRIOR APPROVAL FROM THE DIRECTOR OF WATER & SEWER BEFORE INSTALLING. FOR APPROVED RESTRAINED JOINT SYSTEMS SEE THE MATERIALS SPECIFICATIONS APPROVED FITTINGS MANUFACTURERS' LIST IN DIVISION II OF THE STANDARD SPECIFICATIONS.



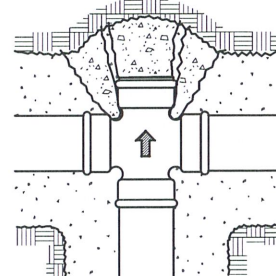
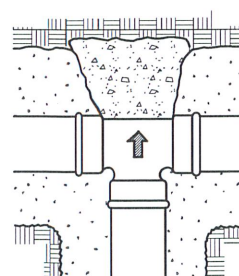
10" AND LARGER



2" - 8" PIPE



THRUST BLOCKS



CONCRETE CRADLES, ENCASEMENTS & THRUST BLOCKS

CITY OF TULSA, OKLAHOMA

DRAWN BY: D.J.N.

CHECKED BY: *tsj*

DATE: AUGUST 2025

APPROVED

[Signature]

NOT TO SCALE

STANDARD NO. 315