12" OR SMALLER WATER MAIN

- No. 4 bars, placed as shown
- Concrete: 0.6 cubic yards
- Steel: 16.7 pounds
- Concrete: 0.6 cubic yards
- Steel: 45.4 pounds

16" WATER MAIN

- No. 5 bars, placed as shown
- Concrete: 1.4 cubic yards
- Steel: 46.4 pounds

24" WATER MAINS

- No. 5 bars, placed as shown
- Concrete: 3.8 cubic yards
- Steel: 108.5 pounds

30" WATER MAINS

- No. 5 bars, placed as shown
- Concrete: 8.6 cubic yards
- Steel: 241.3 pounds

REINFORCED CONCRETE COLLARS

NOTE:

- All reinforcing steel shall be deformed bars conforming to A.S.T.M. DESIGNATION A 334-67 and shall satisfy the bend test requirements for structural grade steel in accordance with the requirements.
- All reinforcing steel shall be epoxy coated.
- All concrete shall be L-3500.

R.C. THUST COLLARS FOR REDUCERS SHALL BE INSTALLED ON THE SMALL PIPE SIDE OF A REDUCER. HEAT TREATED 500 BAR Steel shall be used off of the larger diameter pipe.

R.C. THUST COLLARS TO BE INSTALLED TO VALVES AT THE SPOT SIZE OF LAST PIPE CONNECTION OR ADJACENT TO THE SMALLER DIAMETER SIDE OF MJ REDUCERS.

THRUST COLLAR FOR PVC PIPE

Whenver PVC pipe is used for water main material, a thrust collar shall be installed 9 from each line valve or reducer. Two wedge action retainer glands shall be embedded in the thrust collar with the gripping wedges facing opposite directions to provide thrust restraint from lateral direction. A single wedge action retainer gland shall be installed 5' from each thruster nearest the thrust collar. See L.S.P. 320 for concrete and reinforcing steel details.

CONCRETE 39-1/2 CUBIC YARDS
STEEL 85.6 POUNDS
CONCRETE 2.0 CUBIC YARDS
STEEL 70.8 POUNDS

EFFECTIVE DATE MARCH 22, 2017

R.C. COLLARS

LSP 320