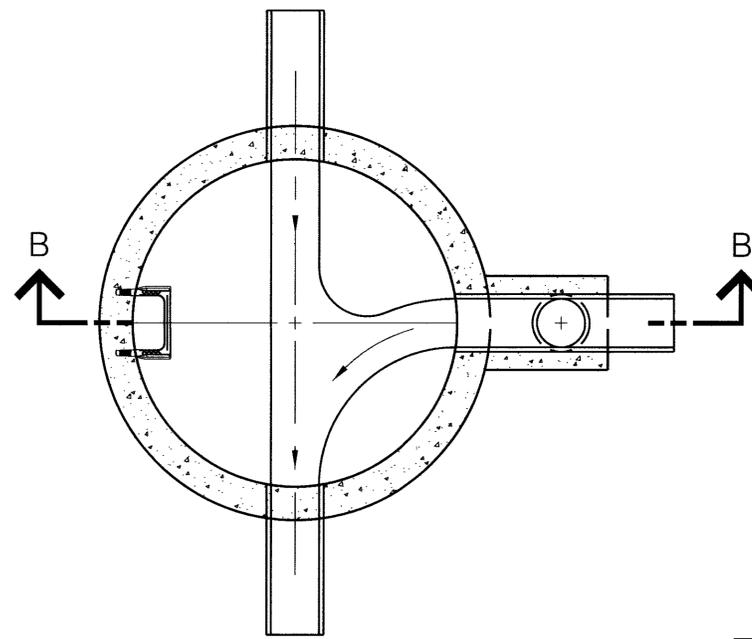
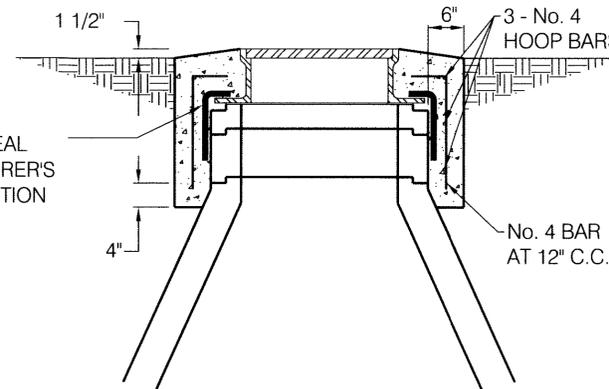
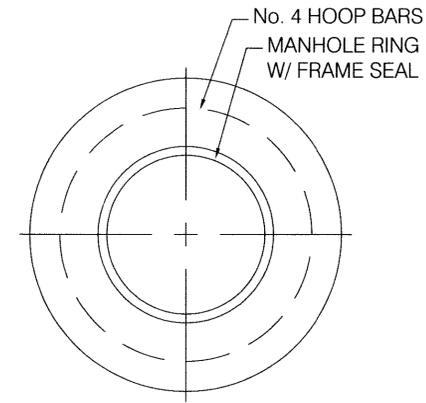


STANDARD 54" MANHOLE



MANHOLE DROP CONNECTION



NOTES:

- DO NOT PLACE 4" ADJUSTING RING ON MANHOLES WITH MANHOLE RING COLLARS
- MANHOLE RING COLLARS SHALL BE CONSTRUCTED IN LOCATIONS OUTSIDE OF PAVED AREAS; LOCATIONS WITHIN RESIDENTIAL AREAS SHALL NOT HAVE MANHOLE RING COLLARS.

MANHOLE RING COLLAR DETAIL

NOTES

- MANHOLES SHALL BE CONSTRUCTED OF CONCRETE. ALL MANHOLES ARE TO BE CONSTRUCTED CIRCULAR AND CONCENTRIC IN PLAN SIMILAR TO DRAWING. CONCRETE IN MANHOLES SHALL BE IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS. THE INVERT OF THE MANHOLE SHALL BE MONOLITHICALLY POURED CONCRETE.
- WHEN PRE-CAST CONCRETE MANHOLE SECTIONS ARE USED, JOINTS SHALL BE IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.
- DROP CONNECTIONS ARE REQUIRED FOR SANITARY SEWERS WHEN IT IS NECESSARY THAT SANITARY FLOW ENTER A MANHOLE AT A HEIGHT OF MORE THAN TWO FT. ABOVE THE MANHOLE'S FLOWLINE. DROPS SHALL BE EXTERNAL DROP CONNECTIONS.
- THE INVERT SHALL BE FORMED AND POURED TO THE THREE QUARTER POINT OF THE PIPE I.D.
- FOR MANHOLES LESS THAN 7'-0" IN DEPTH, THE 54" INSIDE DIA. BARREL SHALL BE CARRIED TO THE SURFACE AND CONSTRUCTED WITH A FLATTOP MANHOLE COVER AS SHOWN ON SHEET 2 OF THIS PLATE.
- FOR MANHOLES GREATER THAN 20'-0" IN DEPTH, THE STRUCTURE SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEBRASKA.
- DETAILS ARE APPLICABLE FOR PIPE DIAMETERS UP TO 24" AT A 90-DEGREE ANGLE. FOR LARGER PIPE, REFER TO SHEET 2 OF THIS PLATE.
- MANHOLES IN BUOYANT CONDITIONS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE OF NEBRASKA.
- RISER SECTIONS SHALL BE OF THE LARGEST VERTICAL DIMENSION POSSIBLE.
- MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 700.
- REINFORCING SHALL BE PLACED WITH A TOLERANCE OF -1/4" AND +1/2" ON CLEARANCE.

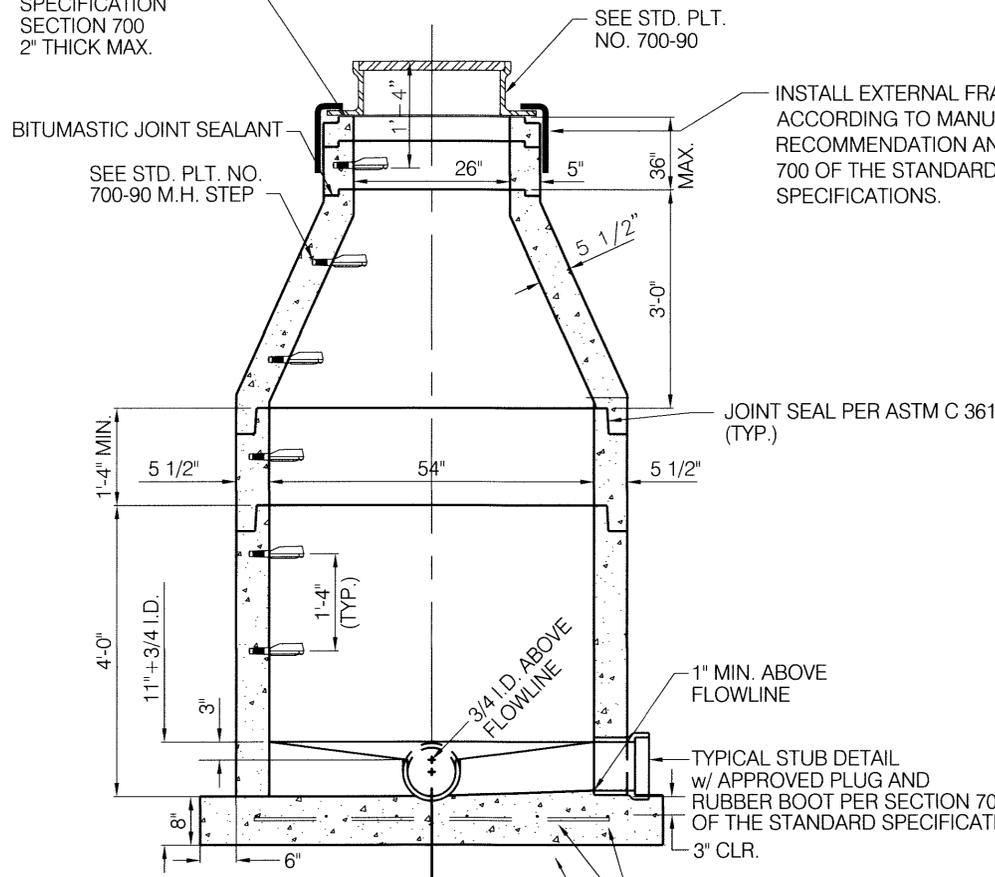
NON-SHRINK GROUT PER STANDARD SPECIFICATION SECTION 700 2" THICK MAX.

SEE STD. PLT. NO. 700-90

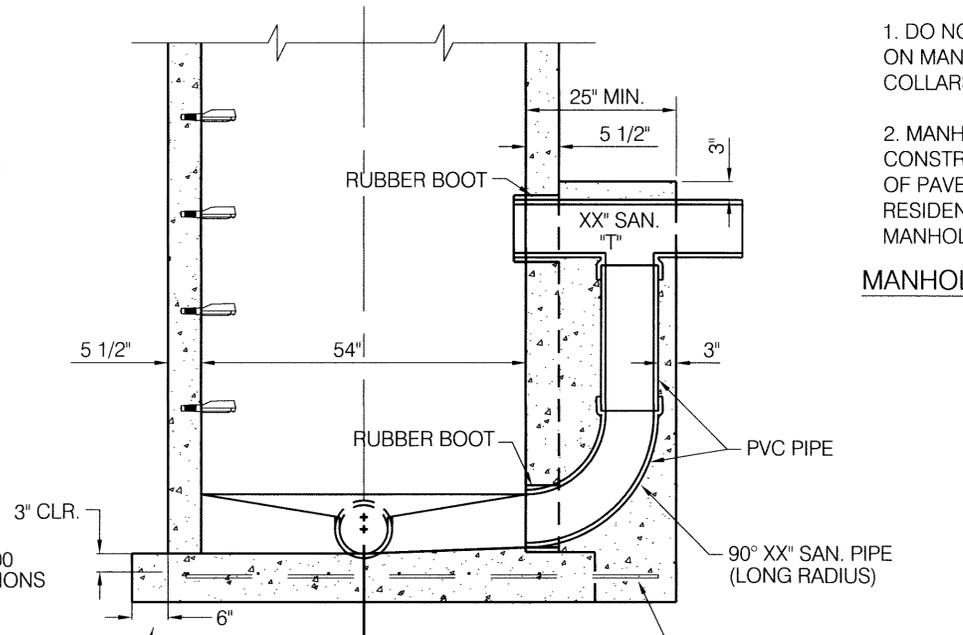
BITUMASTIC JOINT SEALANT
SEE STD. PLT. NO. 700-90 M.H. STEP

INSTALL EXTERNAL FRAME SEAL ACCORDING TO MANUFACTURER'S RECOMMENDATION AND SECTION 700 OF THE STANDARD SPECIFICATIONS.

INSTALL EXTERNAL FRAME SEAL ACCORDING TO MANUFACTURER'S RECOMMENDATION AND SECTION 700 OF THE STANDARD SPECIFICATIONS.



SECTION "A-A"



SECTION "B-B"

NO. 4 BARS @ 6" CTRS. (BOTH WAYS)

AGGREGATE BEDDING SHALL BE IN ACCORDANCE WITH STANDARD PLATE 700-01

Carl R. Duff
DESIGN ENGINEER
Socel P. Pater
CITY ENGINEER

CITY OF OMAHA PUBLIC WORKS DEPARTMENT

SANITARY SEWER MANHOLE

STANDARD PLATE 700-45

ISSUE DATE: ... DECEMBER 10, 2013

SHEET 1/2