CASE 16-08
REVISED 07-19-16

GRADE ADJUSTMENT
FOR FRAME AND COVER

NOTES:
1. CASTING TO CONFORM TO SECT. 787.
3. #4 REINFORCING STEEL HOOP EQUALLY CENTERED HORIZONTALLY & VERTICALLY.

CASE 16-08
REVISED 08-15-16

SEWER
WATER
SURVEY

MINIMUM WEIGHT
16#

1/8 R

1/2"

1/32"

3/8"

7-1/2" DIA.

7/8"

4" U/D SHIRT

1/2"

1/2"

1/2"

1/2"

10" DIA.

1/4" R

1/4" R

1/4" R

1/4" R

1/8" R

1-1/4"

3/4"

8" DIA.

1/2"

1/2"

15" DIA.

16" DIA.

CENTRAL ENGINEERING

MINIMUM WEIGHT
63#
**NOTES:**

1. **Valve Box** shall be adjusted to the finished grade prior to placement of concrete.
2. Use deep skirted lid (4" or more) type, sliding adjustable cast iron valve box, cl. min. 30,000 P.S.I.
3. Ground below the concrete riser pad to be compacted 95% maximum density.
4. Cut riser pipe to length in field. Caution: If existing riser is asbestos-cement pipe (ACP), follow OSHA guidelines for working with ACP.
5. #4 reinforcing steel hoop equally centered horizontally & vertically.
6. Concrete shall be class "AA" per section 725.
7. Water valve extensions shall be installed when the dimension from finish grade to the top of the operating not exceeds 5 feet. See detail 393 for valve extension.
NOTES:

1. IF TWO OR MORE SECTIONS OF PIPE ARE USED TO MAKE THE VALVE BOX RISER, THEY SHALL BE COUPLED OR BONDED TO FORM DEBRIS-TIGHT JOINTS.
2. VALVE BOX SHALL BE PLUMB AND CENTERED AROUND THE OPERATING NUT.
3. THE TOP OF THE VALVE SHALL BE KEPT CLEAN.
4. THE TOP OF THE RISER SHALL BE A MINIMUM OF 1 INCH ABOVE UNDISTURBED OR COMPACTED SOIL AND SHALL HAVE A MINIMUM CLEARANCE OF 2" FROM THE RISER TO THE LU SHIRT.

INSTALL 8" CI FRAME AND COVER PER DETAIL 270

THE WORD 'WATER' ON COVER (TYP)

SEE NOTE 2

GROUND

CONCRETE TO BE ON UNDISTURBED OR COMPACTED SOIL

COMPACTED BACKFILL IN LAYERS NOT TO DISTURB THE RISER PIPE DENSITY PER TABLE 601-2.

RISER 8" C-900 PVC PER AWWA C900 OR APPROVED EQUAL

SEE NOTE 1

SEE NOTE 3

SHEET 1
PIPE SLEEVE DETAIL

MATERIAL: STEEL PER ASTM A513

2" SQUARE OPERATING NUT (WITH STAINLESS STEEL FLAT WASHER - 0.43 ID x 1.00 x 0.1 THICK STAINLESS STEEL HEX BOLT - 3/8-16 x 1") NOT TO BE HELD DOWN WITH NUT ON THREADED SHAFT AS STD VALVE STEM ATTACHMENT.

TRENCH WALL

TOP VALVE BOX COVER

3/16" ALL SIDES

1/16" MIN. CLEARANCE

(2) 1/2" DIA. HOLES OPPOSITE

1/4" X 3" DIAMETER DIRT RING SUPPORT PLATE

1/2" MIN. SIZE 1-1/4" DIAMETER ASTM A108 COLD ROLLED STEEL ROD

STAINLESS STEEL SQUARE HEAD SCREW 3/8-16 x 1"

NOTES:

1. EXTENSION STEM: WITH A SQUARE SOCKET ON THE BOTTOM TO FIT A 2" SQUARE VALVE OPERATING NUT. VALVE EXTENSIONS ARE REQUIRED ON ALL VALVES INSTALLED WHERE THE OPERATING NUT IS OVER 5" BELOW THE SURFACE. LENGTH TO FIT EACH INSTALLATION. OPERATING NUT TO BE HELD ON TOP OF EXTENSION WITH STOP NUT.

2. PAINTING: ALL STEEL TO HAVE A PRIME COAT OF PAINT NO. 1-3 AND ONE HEAVY APPLICATION (FINISH COAT) OF PAINT NO. 9 AS PER SECT. 790.

3. DIRT RING TO FLOAT FREELY ON THE TOP OF THE SUPPORT PLATE.

4. PIPE SLEEVE SHALL BE SECURELY WELDED TO THE UPPER AND LOWER PORTION OF THE 1-1/4" EXTENSION ROD.