

- 1 FRAME AND COVER, D & L SUPPLY 1024 MARKED "SANITARY SEWER" WITH PICK HOLE.
- (2) CLASS "A" CONCRETE COLLAR WITH 2" A.C.
- 3 STANDARD TWENTY FOUR (24) INCH DIAMETER MANHOLE GRADE RINGS THREE (3) INCH MINIMUM, EIGHTEEN (18) INCH MAXIMUM NECK HEIGHT FROM CONE TO FINISH GRADE.
- (4) STANDARD FORTY EIGHT (48) INCH ECCENTRIC MANHOLE REDUCER CONE. COPOLYMER POLYPROPYLENE STEPS REQUIRED FOR MANHOLES DEEPER THAN THREE (3) FEET.
- (5) STANDARD FORTY EIGHT (48) INCH DIAMETER MANHOLE BARREL SECTION, CONFORMING TO ASTM C478 LATEST REMSION WITH FOUR (4) INCH MINIMUM WALL THICKNESS. COPOLYMER POLYPROPYLENE STEPS REQUIRED FOR MANHOLES MORE THAN THREE (3) FEET DEEP.
- (6) CLASS "A", CAST-IN-PLACE OR PRECAST CONCRETE BASE.
- 7 SIX (6) INCHES MINIMUM, 3/4 INCH CRUSHED ROCK PER ASTM D448 #67.
- (8) UNDISTURBED SOIL.
- PIPE SHALL HAVE AT LEAST ONE JOINT WITHIN TWO AND A HALF (2 1/2) FEET FROM MANHOLE WALL.
- (1) CONNECTIONS TO MANHOLE SHALL BE MADE BY UTILIZING MANHOLE ADAPTERS OR ELASTOMERIC SEAL RINGS EMBEDDED IN THE CONCRETE.
- (1) BARREL SECTION JOINTS SHALL BE SEALED BY PRE-FORMED PLASTIC SEALING GASKETS THAT CONFORM TO FEDERAL SPECIFICATION SS-S-00210.
- (12) MANHOLES DEEPER THAN SEVEN (7) FEET (INVERT TO FINISHED GRADE) SHALL HAVE #4 REBAR TWELVE (12) INCHES ON CENTER, EACH WAY, IN MANHOLE BASE.
- (13) FOUR (4) INCHES PER FOOT MINIMUM SLOPE.
- (4) ALL JOINTS SHALL BE MORTARED INSIDE AND OUTSIDE OF MANHOLE.
- (15) ALL SEWER MANHOLES ON TRUNK LINES 10" AND GREATER IN DIAMENTER SHALL BE LINED PER THE REQUIREMENTS SET FORTH IN DIVISION IV, SECTION 14.02G.

## NOTES:

- A. COUNTRY OF ORIGIN SHALL BE CLEARLY AND PERMANENTLY SHOWN ON TOP SURFACE OF THE FRAME AND COVER IN ACCORDANCE WITH THE TRADE AND TARIFF ACT OF 1984.
- B. DATE OF MANUFACTURE SHALL BE CLEARLY AND PERMANENTLY INDICATED ON THE COVER AND THE TOP OF THE FRAME.
- C. SEATING SURFACE SHALL BE CLOSELY MACHINED TO NOMINAL DIMENSIONS WITH TOLERANCES NOT TO EXCEED ±1/64 INCH.
- D. THE WEIGHT OF THE FRAME SHALL BE 140lbs., ±10lbs.
- E. THE WEIGHT OF THE COVER SHALL BE 130lbs., ±5lbs.
- F, VACUUM TEST REQUIRED PER DIVISION IV. SECTION 14.03D.
- G. SANITARY "SEWER" SHALL BE STAMPED CLEARLY AND PERMANENTLY ON THE COVER.

THE CITY OF WEST SACRAMENTO - STANDARD DETAIL

APPROVED BY: C=38733 3/31/05 TO THE PROPERTY OF THE PROPERTY O

SEWER MANHOLE

STANDARD DETAIL #: 404

