



TYPICAL CHANNELING PATTERN

1	FRAME AND COVER, D & L SUPPLY 1024 MARKED "STORM DRAIN" WITH PICK HOLE.
2	MIN 4,000 PSI CONCRETE COLLAR WITH LAMP BLACK PIGMENT ADDED TO MATCH COLOR OF AC PAVEMENT. COLLAR SHALL MATCH ROADWAY SURFACE LEVEL.
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. CONE TOP OPENING SHALL BE 90 DEGREES FROM THE THROUGH STORM DRAIN PIPE.
5	STANDARD FORTY EIGHT (48) INCH DIAMETER MANHOLE BARREL SECTION, CONFORMING TO ASTM C478 - LATEST REVISION, WITH FIVE (5) INCH MINIMUM WALL THICKNESS. CONE AND BARREL SECTIONS SHALL BE SEALED BY PRE-FORMED PLASTIC SEALING GASKETS THAT CONFORM TO FEDERAL SPECIFICATIONS SS-S-00210 OR CITY APPROVED EQUAL. ALL JOINTS SHALL BE MORTARED INSIDE AND OUTSIDE THE MANHOLE.
6	MIN 4,000 PSI CONCRETE FOR CAST-IN-PLACE OR PRECAST CONCRETE BASE.
7	SIX (6) INCHES MINIMUM, 3/4 INCH CRUSHED ROCK PER ASTM D448 #67, AND COMPACTED TO 95% RELATIVE COMPACTION.
8	UNDISTURBED SOIL.
9	MANHOLES DEEPER THAN SEVEN (7) FEET (INVERT TO FINISHED GRADE) SHALL HAVE #4 REBAR TWELVE (12) INCHES ON CENTER, EACH WAY, IN CAST IN PLACE MANHOLE BASE, AND INCREASE THICKNESS OF MANHOLE BASE 12".
10	FOUR (4) INCHES PER FOOT MINIMUM SLOPE.
11	TRENCH ROADWAY STRUCTURAL REPAIR AND RESURFACING SHALL BE IN ACCORDANCE WITH STANDARD DETAILS #112 AND #113.
12	ALL PIPES SHALL HAVE AT LEAST ONE JOINT WITHIN 30 INCHES FROM MANHOLE WALL.

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 $\pm 1/64$ INCH.
- D. THE WEIGHT OF THE FRAME SHALL BE 140lbs., ± 10 lbs.
- E. THE WEIGHT OF THE COVER SHALL BE 130lbs., ± 5 lbs.
- F. THIS STORM DRAIN MANHOLE SHALL NOT BE USED ON STORM DRAIN CONDUIT GREATER THAN 36 INCHES IN DIAMETER. FOR MANHOLE STORM DRAIN CONDUITS GREATER THAN 36 INCHES IN DIAMETER, SEE STANDARD DETAILS #304 OR #305 OR CONTACT CITY FOR OTHER SPECIFIC REQUIREMENTS.

THE CITY OF WEST SACRAMENTO - STANDARD DETAIL



APPROVED: Aug. X, 2025

STANDARD
DETAIL #

302

TITLE:

**STORM DRAIN
MANHOLE**

