



- NOTES:**
- VALUES FOR A, B, C, D, D₁, L, ELEVATION R, AND ELEVATION S ARE SHOWN ON PLAN, TABLE OF VALUES F & T HEREDIN.
 - LATERALS: IF LATERALS ENTER ON BOTH SIDES OF MANHOLE, ACCESS SHAFT SHALL BE LOCATED ON SIDE RECEIVING THE SMALLER LATERAL.
 - CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTERLINE OF STORM DRAIN WHEN D₁ IS 45" OR LESS, IN WHICH CASE PLACE 4 E BARS SYMMETRICALLY AROUND SHAFT 45° WITH CENTERLINE.
 - LENGTH OF MANHOLE MAY BE INCREASED AT OPTION TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
 - DETAIL "M": WHEN DEPTH OF MANHOLE FROM STREET TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT AS PER DETAIL M.
 - REINFORCING STEEL: TIE BARS SHALL BE #4 AND SPACED 18" ON CENTERS OR CLOSER.
 - STEPS: SPACING SHALL BE 12" C-C, THE LOWEST STEP SHALL BE NOT MORE THAN 2'-6" ABOVE THE INVERT. SEE STD-404-L.
 - RINGS, REDUCER, AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN 1/2 MIX CLASS C MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
 - FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
 - BODY OF MANHOLE, INCLUDING SPUR, SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT A CONSTRUCTION JOINT AT THE SPRING LINE WITH A LONGITUDINAL KEYWAY IS PERMITTED.
 - ELEVATION "S" APPLIES AT CENTER OF MAINLINE ON PROLONGATION "F" INVERT OF SPUR.

CITY OF NEWPORT BEACH
PUBLIC WORKS DEPARTMENT

MANHOLE NO. 4
PLAN, SECTION, AND DETAIL

APPROVED:
DIRECTOR OF PUBLIC WORKS
R.C.E. NO. 12806

DATE 29 Sep 1993 **SCALE** N.T.S.
DRAWN M. GRACIA **STD-308-L**

REF. STD-112-L, STD-309-L, STD-404-L
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