

STORM DRAIN PROFILE VIEW

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'



SHEET

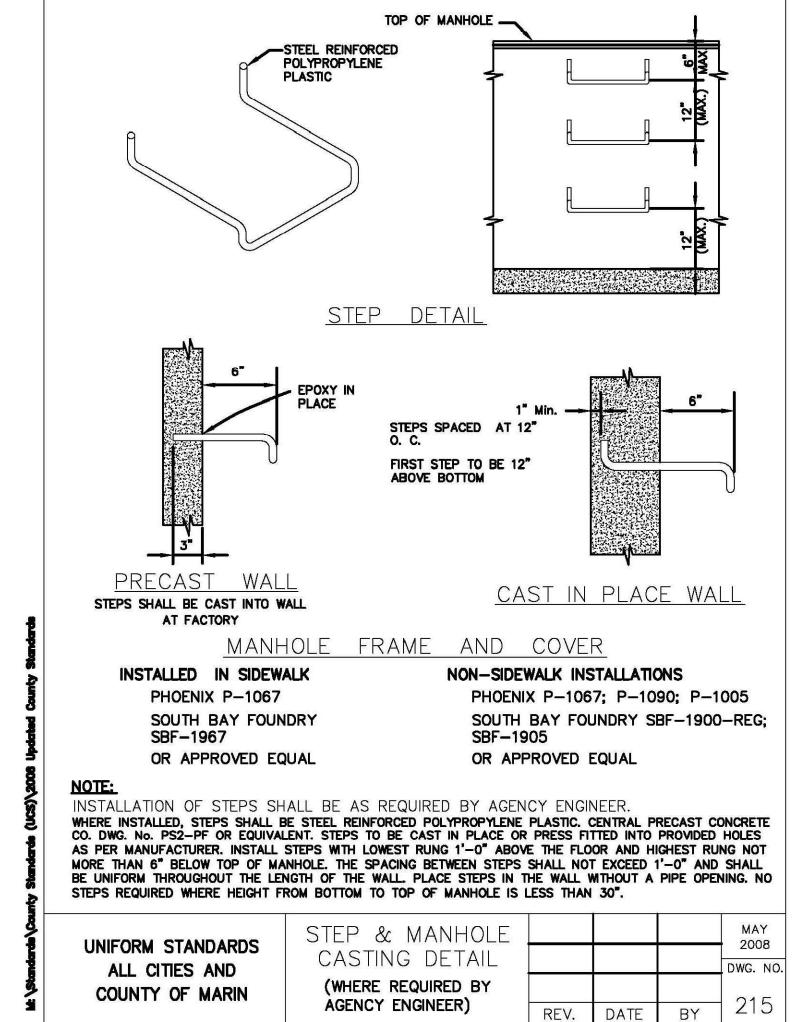
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## CATCH BASIN, TURNING STRUCTURE, MANHOLE AND DROP INLET NOTES

- CONCRETE SHALL BE CLASS "A" (6 SACK MIX) UNLESS OTHERWISE NOTED. STRUCTURE TOPS CAST WITH ADJACENT CURB/SIDEWALK MAY BE CLASS "B" CONCRETE.
- BASE SHALL BE PLACED AGAINST UNDISTURBED EARTH, SIDES MAY BE FORMED OR PLACED AGAINST UNDISTURBED EARTH.
- 3. WHERE CONDUITS ARE ENCOUNTERED THAT ARE LARGER IN DIAMETER THAN THE WIDTH OF THE WALL THROUGH WHICH THEY PASS, THE INSIDE DIMENSION OF THE WALLS PERPENDICULAR TO THE DIRECTION OF THE PIPE SHALL BE INCREASED TO 12" WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE.
- 4. EXPANSION JOINTS SHALL BE PLACED THROUGH CURB AND SIDEWALK AT BOTH SIDES OF CATCH BASINS AND SHALL BE LIMIT OF PAYMENT FOR CURB AND GUTTER. UNIT PRICES FOR DRAINAGE STRUCTURES SHALL INCLUDE CURB, GUTTER AND SIDEWALK POURED WITH DRAINAGE STRUCTURE.
- 5. NO CONCRETE SHALL BE PLACED PRIOR TO FORM AND STEEL APPROVAL BY THE AGENCY ENGINEER.
- 6. SEE DRAWING NO. 215 FOR STEP (AS REQUIRED BY AGENCY ENGINEER) AND MANHOLE CASTING DETAIL.
- 7. SEE DRAWING NO. 220 FOR CATCH BASIN GRATE DETAIL.
- 8. WALL THICKNESS, REINFORCING, AND STEP (AS REQUIRED BY AGENCY ENGINEER)
  REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TABLE BELOW, UNLESS OTHERWISE
  INDICATED BY THE PROJECT PLANS OR DIRECTED BY THE AGENCY ENGINEER.
- 9. PLACE 2" WEEPHOLES AS REQUIRED BY THE AGENCY ENGINEER.
- EQUIVALENT PRECAST STRUCTURES MAY BE SUBSTITUTED AS APPROVED BY THE AGENCY ENGINEER.
- 11. WALL THICKNESS SHALL NOT EXCEED 10" ON ANY STRUCTURE.
- 12. PRECAST INLETS AND MANHOLES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS AND BE DESIGNED TO WITHSTAND H-20 LOADING.



|  | DEPTH WALL THICKNESS (SEE NOTE #11)  LESS THAN 3' 6" NO. 4 AT 12" BOTH WITHIN OR ADJACENT  3' TO 8' 6" NO. 4 AT 12" BOTH WITHIN OR ADJACENT  OVER 8' 8" NO. 4 AT 12" BOTH WITHIN OR ADJACENT  UNIFORM STANDARDS  ALL CITIES AND COUNTY OF MARIN  NOTES FOR CATCH BASIN, MANHOLE DROP INLET & TURNING STRUCTURE | WAYS NO  NAY. WAYS NO TO ROAD.  AS REQUIRED BY THE AGENCY ENGINEER  WAYS AS REQUIRED BY THE AGENCY ENGINEER  MAY 2008  DWG. NO.                             | PHOENIX P-1067 PHOENIX P-1067; P-1090; P-1005 SOUTH BAY FOUNDRY SUTH BAY FOUNDRY SBF-1900—REG; SBF-1967 SBF-1905 OR APPROVED EQUAL OR APPROVED EQUAL  NOTE: INSTALLATION OF STEPS SHALL BE AS REQUIRED BY AGENCY ENGINEER. WHERE INSTALLED, STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE PLASTIC. CENTRAL PRECAST CONCRETE CO. DWG. No. PS2-PF OR EQUIVALENT. STEPS TO BE CAST IN PLACE OR PRESS FITTED INTO PROWDED HOLES AS PER MANUFACTURER. INSTALL STEPS WITH LOWEST RUNG 1'-0" ABOVE THE FLOOR AND HIGHEST RUNG NOT MORE THAN 6" BELOW TOP OF MANHOLE. THE SPACING BETWEEN STEPS SHALL NOT EXCEED 1'-0" AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE WALL. PLACE STEPS IN THE WALL WITHOUT A PIPE OPENING. NO STEPS REQUIRED WHERE HEIGHT FROM BOTTOM TO TOP OF MANHOLE IS LESS THAN 30".  UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN  STEP & MANHOLE CASTING DETAIL (WHERE REQUIRED BY AGENCY ENGINEER)  REV. DATE BY 215 | OBERKAN CIVIL   |
|--|--|---|--|---|
| NO. 5 BARS AT BOTH WAYS TOP LOW TO STORE TOP | PLAN  FRAME CAST IN STRUCTURE  NO. 5 BARS AT 12" O.C. BOTH WAYS SIDES & BOTTOM  FORM SLOPED BOTTOM IN FIELD  CAST STRUCTURE  AROUND NEW PIPE   | ISOMETRIC  NO. 5 BARS AT 6" O.C. BOTH WAYS TOP  EXISTING 27"x42" PIPE  NO. 5 BARS AT 12" O.C. BOTH WAYS SIDES & BOTTOM  CAST STRUCTURE AROUND EXISTING PIPE | 3/8" DIA. ANCHORS  3/16" DIA. CROSS BARS AT 4" O.C., SET FLUSH W/ TOP SURFACE (TYPICAL)  BANDING BARS AT EACH END  BEARING BARS: AT 1-3/16" O.C.  STANDARD ANGLE FRAME  DETAIL - 1  FRAME WIDTH LENGTH FRAME ANGLE SDE BAR WEIGHT IN IN IN IN LBS. IN IN IN IN LBS.  243 468 2241376 224 56 266 48 2276 144  NOTES:  | JACOBY STREET  MARIN SANITARY SERVICE   |
|  | SECTION A-A  | SECTION B-B   | NOTES:  1. FRAME AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM SPEC. A-123.  2. FRAME AND GRATE SPECIFIED FOR A H20 TRAFFIC RATING.  | 200,  |
|  | CAST-IN-PLACE DROP INLET DE NOT TO SCALE   |   | 3. ALL STEEL SHALL BE STRUCTURAL GRADE. 4. TOP AND BOTTOM SURFACES OF GRATE SHALL BE GROUND FLUSH AFTER WELDING.  DROP INLET FRAME & GRATE DETAIL  NOT TO SCALE  | No. 12094 Exp. 3/31/11  CIVIL  OF CALL  OF CALL |
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