NOTES:

1) CONCRETE SHALL BE CLASS 560-C-3250 PCC, CURED WITH WHITE PIGMENTED CURING COMPOUND.
2) DIMENSIONS:
   a. W SHALL BE AS SPECIFIED ON THE PLAN (4' MIN).
   b. V SHALL BE AS SPECIFIED ON THE PLAN.
   c. H = 4" UNLESS OTHERWISE SPECIFIED ON THE PLAN.
   d. b = 38" UNLESS OTHERWISE SPECIFIED ON THE PLAN.
   e. T = 6" IF V IS 4' OR LESS. T = 8" IF V IS BETWEEN 4' AND 8'. T = 10" IF V IS 8' OR MORE.
   f. THICKNESS OF THE WALL UNDER THE OPENING SHALL BE T + 2" WHEN W EXCEEDS 7'-0". IF T > 6", WIDENING OF WALL SHALL BE ON THE STREET SIDE.
3) PROTECTION BAR:
   a. PROTECTION BAR SHALL BE PER STD MVFE-300D-0.
   b. ALL BARS SHALL BE 1" Ø GALVANIZED SMOOTH STEEL. BAR LENGTHS SHALL NOT EXCEED 21' AND SHALL BE CUT TO FIT IN FIELD.
   c. WHEN "W" IS OVER 21', PROTECTION BAR SHALL CONSIST OF TWO OR MORE SECTIONS DEPENDING UPON LENGTH OF BASIN.
   d. INSTALL COUPLING AT DOWNSTREAM END OF CATCH BASIN OPENING.
   e. PROTECTION BAR "S" SHALL BE INSTALLED WHEN THE MINIMUM CLEAR OPENING OF THE CATCH BASIN EXCEEDS 6". BAR "S" SHALL BE PLACED SUCH THAT NO MINIMUM CLEAR OPENING EXCEEDS 6".
   f. WHEN ONE BAR IS REQUIRED, "S" SHALL BE 6 3/4". HOWEVER, THIS SHALL BE REDUCED IF NECESSARY SO THAT THE CENTER OF THE PROTECTION BAR IS NOT LESS THAN 2 1/2" FROM THE FACE PLATE.
   g. WHEN TWO OR MORE BARS ARE REQUIRED, "S" SHALL BE 6 3/4" WITH REMAINING BARS SPACED AT 6 3/4" CC. SPACING OF TOP BAR SHALL BE REDUCED IF NECESSARY SO THAT THE CENTER OF THE BAR IS NOT LESS THAN 2 1/2" FROM THE FACE PLATE.
4) SUPPORT BOLT:
   a. SUPPORT BOLTS SHALL BE PER STD MVFE-300C-0.
   b. SUPPORT BOLTS ARE REQUIRED WHEN LENGTH OF THE CATCH BASIN IS 7' OR GREATER.
   c. LOCATION OF SPECIAL SUPPORT BARS AND ADDITIONAL SOCKET SET SCREWS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
   d. SOCKET SET SCREW SHALL BE STAINLESS STEEL OR BRASS.
5) FACE PLATE ASSEMBLY:
   a. FACE PLATE SHALL BE PER STD MVFE-300D-0.
   b. LENGTH OF FACE PLATE SHALL BE "W" + 12" EXCEPT AS MODIFIED FOR CURB OPENING CATCH BASIN AT DRIVEWAY.
   c. WHERE CATCH BASIN IS TO BE CONSTRUCTED ON CURVE, THE MAXIMUM CHORD LENGTH FOR FACE PLATE SHALL BE SUCH THAT THE MAXIMUM DIMENSION FROM SAID CHORD (MEASURED PERPENDICULAR THERETO) TO THE TRUE CURVE WILL NOT EXCEED ONE INCH. WHERE MORE THAN ONE CHORD IS REQUIRED, CHORD LENGTHS SHALL BE EQUAL.
   d. WHERE LENGTH OF FACE PLATE IS BETWEEN 22' AND 43', TWO SECTIONS MAY BE USED. WHEN LENGTH EXCEEDS 43', THREE SECTIONS MAY BE USED. SECTIONS SHALL BE SPLICED ACCORDING TO THE SPLICE DETAIL PER STD MVFE-300D-0. SPLICE SHALL BE PLACED ONE FOOT FROM SUPPORT BOLT.
   e. SET END ANCHORS 3" FROM ENDS OF FACE PLATE.
   f. PLACE ONE ANCHOR AT EACH SIDE OF ANY OR ALL SPLICE JOINTS AND WITHIN 6" THEREOF.
   g. ROUND HEAD ANCHORS FOR FACE PLATE SHALL BE NELSON H-4F SHEAR CONNECTOR, KSN WELDING SYSTEMS DIVISION SHEAR CONNECTOR OR EQUAL.
6) CONNECTOR PIPE: UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS, CONNECTOR PIPE SHALL BE 24" ID MINIMUM, REINFORCED CONCRETE PIPE (RCP).
7) STEPS: SHALL BE PER STD MVFE-300A-0 AND SHALL BE 3/4" Ø ROUND MILD STEEL BAR, BEND HOT & GALVANIZED. STEPS SHALL BE INSTALLED 16" APART WHEN V EXCEED 4 1/2'. THE TOP STEP SHALL BE 6" BELOW THE TOP SURFACE AND SHALL BE 2 1/2" CLEAR FROM THE WALL. ALL OTHER STEPS SHALL BE 4" CLEAR FROM THE WALL. ONLY ONE STEP 12" FROM THE BOTTOM FLOOR SHALL BE INSTALLED IF V IS 4 1/2' OR LESS. ALL STEPS SHALL BE ANCHORED NOT LESS THAN 4" INTO THE CATCH BASIN WALL. IF STEPS ARE NOT WET SET / INSTALLED, HIGH-STRENGTH EPOXY ANCHORING ADHESIVE, TYPE SET-XP BY STRONG-TIES OR EQUAL APPROVED, SHALL BE USED FOR THE INSTALLATION.
8) STEEL REINFORCEMENT: SHALL BE PER STD MVFE-300F-0.
9) MANHOLE FRAME AND COVER: SHALL BE PER STD MVFE-300E-0.
10) WHERE THE STRUCTURE IS TO BE CONSTRUCTED WITHIN THE LIMITS OF A PROPOSED SIDEWALK OR IS CONTIGUOUS TO SUCH A SIDEWALK THE TOP SLAB OF THE STRUCTURE SHALL BE POURED MONOLITHIC WITH THE SIDEWALK (WITH NO WEAKENED PLANE JOINT IN BETWEEN). THE SIDEWALK SHALL BE PROVIDED WITH A WEAKENED PLANE JOINT OR A ONE INCH DEEP SAWCUT CONTINUOUSLY ON BOTH SIDES OF THE STRUCTURE WALLS, INCLUDING ACROSS THE FULL WIDTH OF THE SIDEWALK.
11) THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH AND SCORING TO EXISTING OR PROPOSED CURB, GUTTER AND WALK ADJACENT TO THE STRUCTURE. CURVATURE OF CONCRETE SURFACE SHALL BE SHAPED BY CURVED FORMS AND SHALL NOT BE SHAPED BY PLASTERING. FLOOR OF STRUCTURE SHALL BE GIVEN A STEEL TROWELLED FINISH.
12) DOWELS SHALL BE REQUIRED PER DETAIL SHOWN ON STD MVFE-300A-0 WHEN THE TOP SLAB IS CONSTRUCTED SEPARATELY.
13) STENCIL INLET STRUCTURE WITH "ONLY RAIN IN THE STORM DRAIN".

NOT TO SCALE

CITY OF MORENO VALLEY · DECEMBER 3, 1984

RECOMMENDED: _____ DIVISION MANAGER 1/21/14 DATE

APPROVED: _____ PUBLIC WORKS DIRECTOR / CITY ENGINEER 1/29/14 DATE

CITY OF MORENO VALLEY

PUBLIC WORKS DEPARTMENT - CAPITAL PROJECTS DIVISION

CATCH BASIN NOTES

STANDARD PLAN
MVFE-300B-0