



**NOTES:**

1. WHERE THE BASIN IS TO BE CONSTRUCTED WITHIN THE LIMITS OF EXISTING OR PROPOSED SIDEWALK OR IS CONTIGUOUS TO SUCH SIDEWALK, THE TOP SLAB OF THE BASIN MAY BE POURED EITHER MONOLITHIC WITH THE SIDEWALK OR SEPARATELY, USING THE SAME CLASS OF CONCRETE AS IN THE BASIN. WHEN POURED MONOLITHICALLY, THE SIDEWALK SHALL BE PROVIDED WITH A WEAKENED PLANE OR A (1.5") DEEP SAWCUT CONTINUOUSLY AROUND THE EXTERNAL PERIMETER OF THE CATCH BASIN WALLS, INCLUDING ACROSS THE FULL WIDTH OF THE SIDEWALK, SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH, AND SCORING TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN.
2. REINFORCING STEEL FOR WALLS AND FLOOR SHALL BE No. 4 BARS AT 18-INCHES BOTH WAYS, PLACE 1 1/2" CLEAR TO INSIDE OF CATCH BASIN PER L.A.C.F.C.D. STD 2-D172.
3. ALL CURVED CONCRETE SURFACE SHALL BE FORMED BY CURVED FORMS, AND SHALL NOT BE SHAPED BY PLASTERING.
4. CATCH BASIN FLOORS SHALL BE SLOPED FROM ALL DIRECTIONS TOWARD OUTLET PIPE AND SHALL HAVE A WOOD TROWEL FINISH.
5. DIMENSION IDENTIFICATIONS:  
 B = 3'-2".  
 V = THE DIFFERENCE IN ELEVATION BETWEEN THE TOP OF THE CURB AND THE INVERT OF THE CATCH BASIN AT THE OUTLET.  
 T = 6" FOR V = 8' OR LESS  
 T = 8" FOR V = 8'-1" TO 20'  
 W = 4', 7', 10', 14', 18', 21', or 28'.  
 A = THE ANGLE, IN DEGREES, INTERCEPTED BY THE CENTERLINE OF THE CONNECTOR PIPE AND THE CATCH BASIN WALL TO WHICH THE CONNECTOR PIPE IS ATTACHED.
6. STEPS:  
 NONE REQUIRED WHERE "V" IS 4' OR LESS. INSTALL ONE STEP 12" ABOVE FLOOR WHEN "V" IS MORE THAN 4' AND LESS THAN 5', WHERE "V" IS MORE THAN 5', STEPS SHALL BE EVENLY SPACED AT 12" INTERVALS FROM 12" ABOVE THE FLOOR TO WITHIN 12" OF THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENING. AN APPROVED CAST-IN-PLACE POLYPROPYLENE STEP MAY BE USED IN PLACE OF A GALVANIZED STEEL STEP.
8. DOWELS ARE REQUIRED AT EACH CORNER AND AT 7 FEET ON CENTER (MAXIMUM) ALONG THE BACKWALL.

APPR. BY:  12/11  
 STEVEN C. NIX, CITY ENGINEER DATE

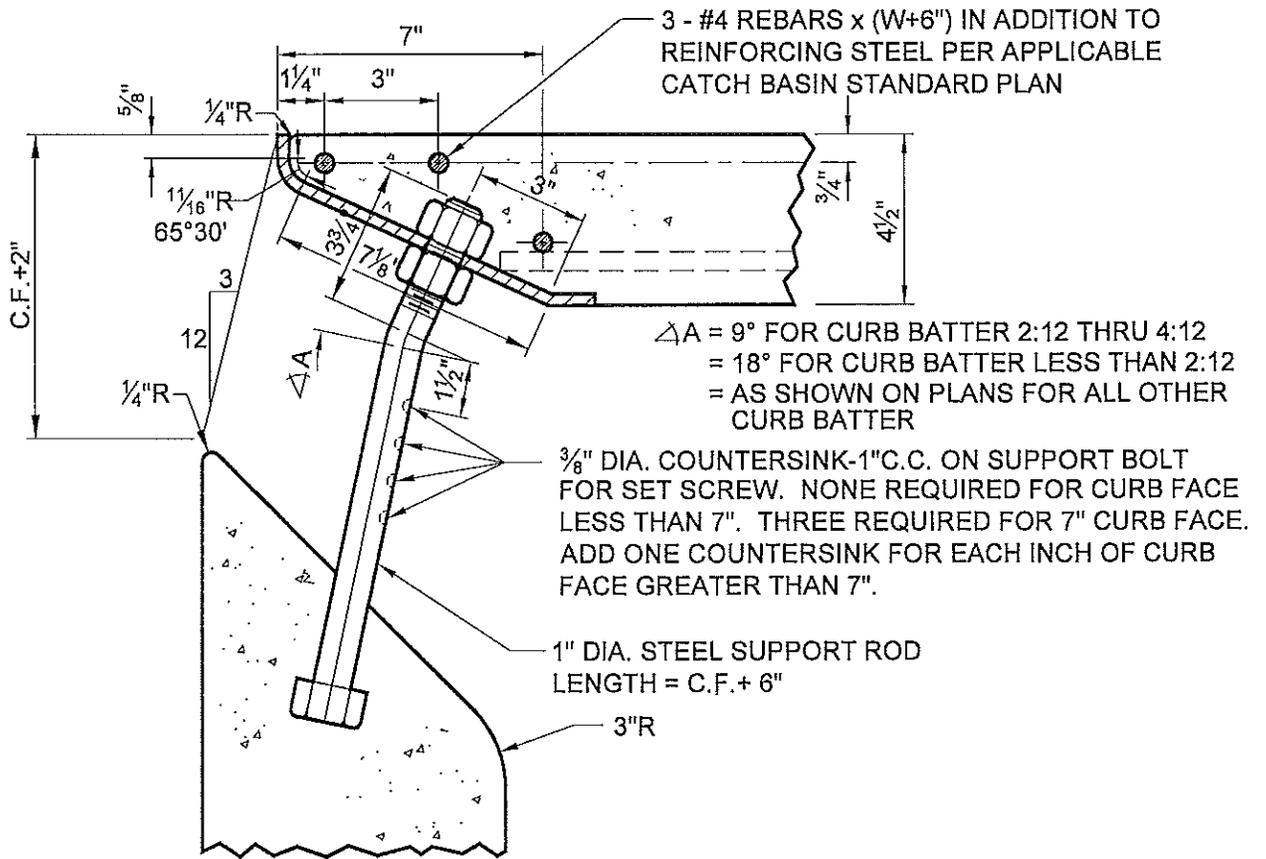
CITY OF CHINO HILLS  
 ENGINEERING DEPARTMENT

DATE	REVISION	BY

CATCH BASIN  
 GENERAL NOTES

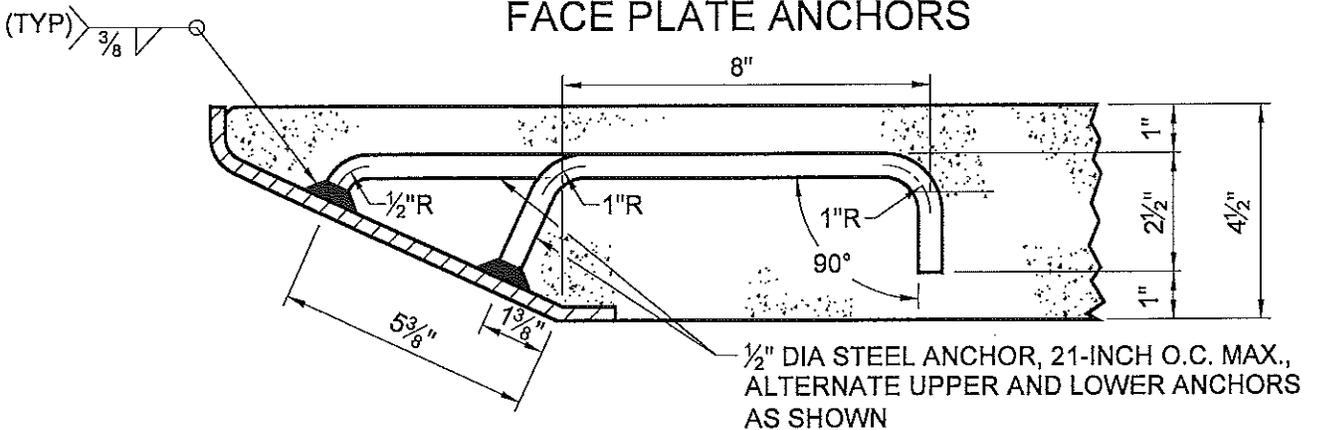
205  
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# SUPPORT BOLT AND FACE PLATE (4- 1/2" TOP SLAB)



**SECTION**

## FACE PLATE ANCHORS



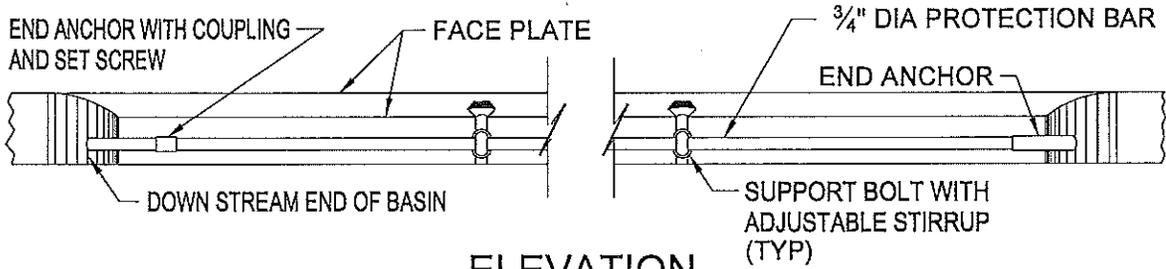
APPR. BY: *Steven C. Nix* 12/11  
 STEVEN C. NIX, CITY ENGINEER DATE

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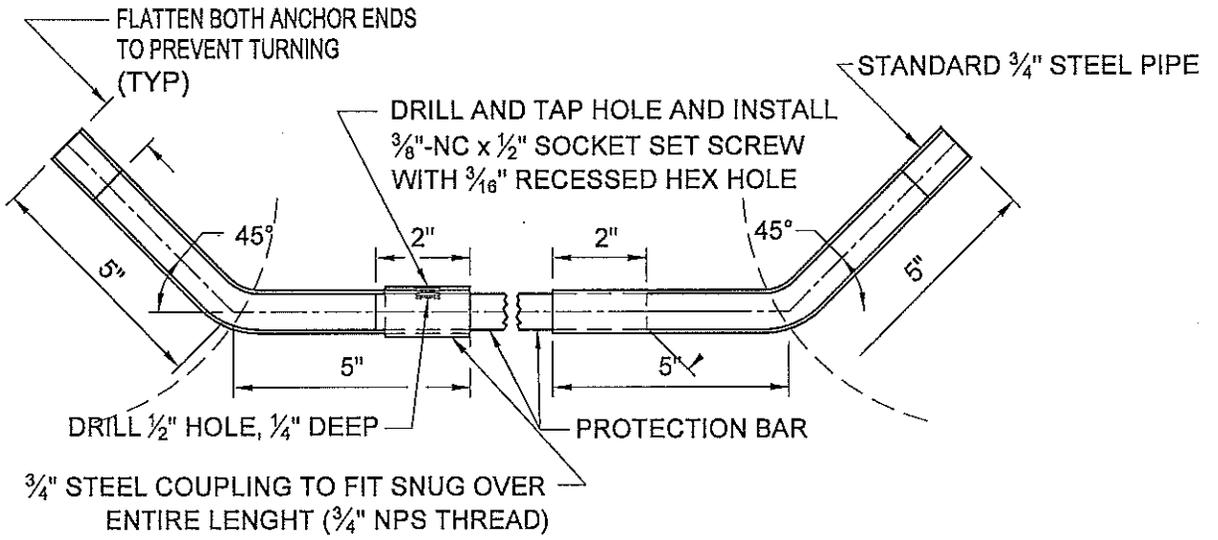
DATE	REVISION	BY

CATCH BASIN  
 FACE PLATE SUPPORT

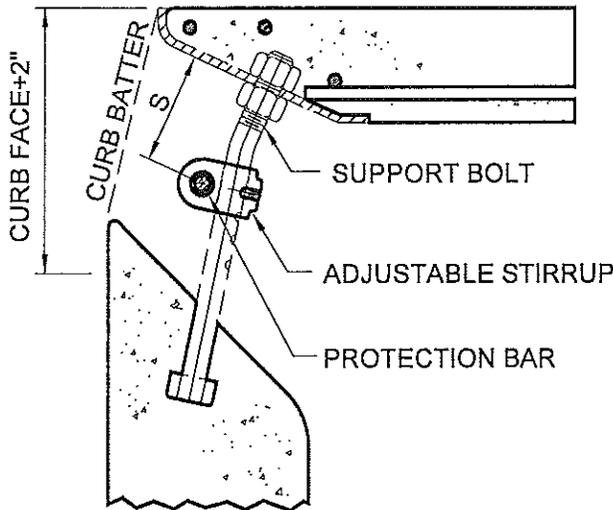
# PROTECTION BAR AND SUPPORT BOLT(S) WITH ADJUSTABLE STIRRUP(S)



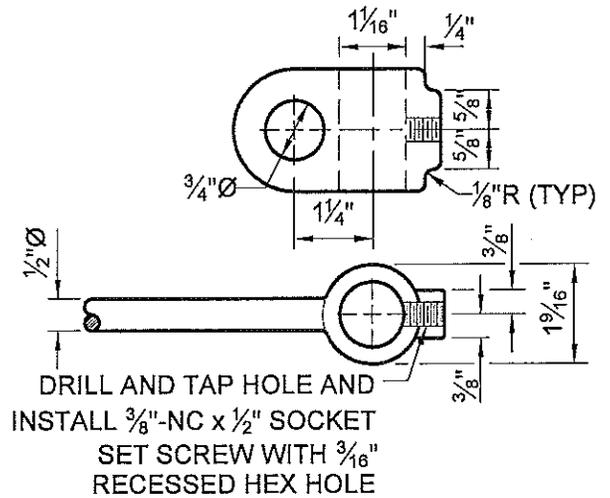
ELEVATION



END ANCHOR DETAIL



PROTECTION BAR AND STIRRUP LOCATION



STIRRUP DETAIL

APPR. BY: *[Signature]* 12/11  
 STEVEN C. NIX, CITY ENGINEER DATE

CITY OF CHINO HILLS  
 ENGINEERING DEPARTMENT

DATE	REVISION	BY

CATCH BASIN  
 FACE PLATE ASSEMBLY

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**NOTES:**

1. ALL METAL PARTS, EXCEPT AS NOTED, SHALL BE GALVANIZED STEEL.
2. SET SCREWS SHALL BE STAINLESS STEEL.
3. CURB FACE OPENINGS SHALL BE AS NOTED ON THE PROJECT PLANS.
4. CURB BATTER SHALL BE 3:12 UNLESS OTHERWISE SPECIFIED.

**FACE PLATE**

5. FACE PLATE LENGTH SHALL BE CATCH BASIN "W" PLUS 12 INCHES.
6. WHEN THE LENGTH OF THE FACE PLATE IS BETWEEN 22 FEET AND 29 FEET, 2 SECTIONS MAY BE USED.
7. WHERE CATCH BASINS ARE CONSTRUCTED ON CURVES, THE MAXIMUM CHORD LENGTH FOR THE FACE PLATE SHALL BE SUCH THAT THE MAXIMUM PERPENDICULAR DISTANCE TO THE TRUE CURB SHALL NOT EXCEED ONE INCH. WHERE MORE THAN ONE CHORD IS REQUIRED, CHORD LENGTHS SHALL BE EQUAL. CHORD SECTIONS SHALL BE SPLICED ACCORDING TO THE APPLICABLE SPLICED (MODIFIED TO FIT THE CHORD DEFLECTION) AND A SUPPORT BOLT SHALL BE PLACED ONE FOOT FROM THE SPLICE.
8. ROUND HEAD ANCHORS FOR THE FACE PLATE SHALL BE NELSON H-4F SHEAR CONNECTOR, KSN WELDING SYSTEMS DIVISION SHEAR CONNECTOR OR EQUAL.

**SUPPORT BOLT**

9. SUPPORT BOLTS ARE REQUIRED WHEN THE LENGTH OF THE CATCH BASIN OPENING IS 7 FEET OR GREATER, AND SHALL BE EVENLY SPACED ACROSS THE OPENING. SPACING SHALL NOT BE LESS THAN 3 FEET 6 INCHES ON CENTER NOR GREATER THAN 5 FEET ON CENTER.

**STIRRUP**

10. THE MATERIAL SHALL BE CAST STEEL.

**PROTECTION BAR**

11. THE BAR SHALL BE CUT TO FIT IN THE FIELD, WHEN "W" IS OVER 21 FEET, THE PROTECTION BAR SHALL CONSIST OF 2 OR MORE SECTIONS. A SPECIAL CONNECTOR BETWEEN THE PROTECTION BAR PIECES SHALL CONSIST OF A 5-INCH LENGTH OF STANDARD 3/4" DIA. PIPE WITH STANDARD COUPLINGS FULLY THREADED ONTO EACH END DRILLED AND TAPPED FOR A SOCKET SET SCREW AS DETAILED FOR THE DOWNSTREAM END ANCHOR.
12. PROTECTION BAR SHALL BE REQUIRED FOR W >14', UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

APPR. BY:  12/11 STEVEN C. NIX, CITY ENGINEER DATE			<b>CITY OF CHINO HILLS</b> ENGINEERING DEPARTMENT	
DATE	REVISION	BY	<b>FACE PLATE ASSEMBLY</b> <b>GENERAL NOTES</b>	
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