1. FOR CONSTRUCTION OF THE CATCH BASIN WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE
   MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6" IN. THICK WITH A REINFORCING STEEL AREA
   OF 0.20 SQ. FT. FOR BRICK THE WALLS ARE TO BE 8" THICK. THE INTERIOR DIMENSIONS ARE TO
   REMAIN AS SHOWN FOR EITHER TYPE CONSTRUCTION.

2. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6 IN. THICK CLASS 3000 CONCRETE WITH A
   REINFORCING STEEL AREA OF 0.20 SQ. IN. PER SQUARE FT. WIRE MESH MAY BE USED IN LIEU OF STEEL
   BARS PROVIDED A MINIMUM .20 SQ. IN. PER FT. IS MET.

3. FOR CONSTRUCTION OF THE CATCH BASIN LID CLASS 4000P OR BETTER CONCRETE SHALL BE USED
   WITH REINFORCING STEEL AS SHOWN.

4. MORTAR SHALL BE S OR M.

5. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE
   MESH SHALL CONFORM TO AASHTO M 55 AND M 221.

6. IF THE STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON THE WALL.
   SEE STEP STANDARD DRAWING SD-14.

7. WHEN IT IS NECESSARY TO PLACE A CATCH BASIN IN A RADIUS, THE FACE OF THE CATCH BASIN TOP
   SHALL CONFORM TO THE HORIZONTAL CURVATURE OF THE ADJACENT CURB WHEN THE RADIUS IS 100 FEET
   OR LESS. OTHERWISE THE TOP SHALL BE RECTANGULAR WITH SQUARE CORNERS. IN ALL CASES THE BACK
   OF THE CATCH BASIN TOP SHOULD FOLLOW THE SAME ALIGNMENT AS ITS FACE.

8. SEE STANDARD DRAWING, SD-04 FOR DETAIL OF MANHOLE CASTING AND COVER. MANHOLE SHALL BE
   LINLED WITH THE INTERIOR OF THE BOX AS SHOWN.

9. THE CONTRACT UNIT PRICE FOR CATCH BASINS SHALL INCLUDE THE COST OF FURNISHING ALL
   MATERIALS AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS
   SHOWN, INCLUDING THE CURB AND GUTTER, IN ACCORDANCE WITH THE SC DOT STANDARD SPECIFICATIONS
   FOR HIGHWAY CONSTRUCTION (LASTEST EDITION).

10. SPECIAL ATTENTION SHOULD BE GIVEN TO THE COMPACTION OF THE SOIL UNDER THE 6" COVER
    OVERHANG ON THE BACK OF THE CATCH BASIN.

11. SLOPE TOP OF CATCH BASIN TO MATCH ADJACENT SIDEWALK OR 50:1 TOPWARD ROADWAY WHERE NO
    SIDEWALK IS PRESENT.
CITY OF ROCK HILL
UTILITIES DEPARTMENT
STORMWATER DIVISION
P.O. BOX 11706
ROCK HILL, SC 29731-1706
(803) 329-5614
(803) 325-2526 FAX

STANDARD DETAIL SD-02
CATCH BASIN TYPE 17 (SCDOT)

REVISIONS: DATED:
1 OF 3
SCALE: N.T.S.
GENERAL NOTES:
1. MORTAR JOINTS 1/2" +/- 1/8" THICK
2. ALL CONCRETE TO BE 3600 P.S.I COMpressive STRENGTH.
3. ALL CATCH BASIN OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD SD-14.
4. CONCRETE BRICK MAY BE USED IN LIEU OF HARD COMMON CLAY BRICK.
5. JUMBO BRICK WILL BE PERMITTED.
6. FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL. OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0".
7. FOR FRAME AND GRATE DETAIL SEE STANDARD SD-06.
8. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
9. WEEP HOLE(S) SHALL BE PLACED IN BACK WALL. A STONE DRAIN CONSISTING OF 1 (ONE) CUBIC FOOT OF NUMBER 789 STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT WEEP HOLE.
10. BRICK SHALL BE BONDED WITH FULL HEADERS EVERY 3 COURSES.

END ELEVATION/SECTION J-J
WHERE 30" TO 36" PIPE IS USED

SIDE ELEVATION/SECTION M-M
WHERE 42" TO 54" PIPE IS USED

SEE SHEET FOR DETAIL OF SLAB
PLAN VIEW

SECTION A - A
GENERAL NOTES:
1. TWO 4”x 4”x 3/8” ANGLE IRONS MAY BE SUBSTITUTED FOR THE W10x39 BEAM.
2. ALL CONCRETE TO BE 3600 P.S.I COMpressive STRENGTH.
3. MORTAR JOINTS SHOULD BE BETWEEN 3/8” TO 5/8” THICK.
4. ALL CATCH BASINS OVER 3’-6” IN DEPTH TO BE PROVIDED WITH METAL STEPS ON 1’-2” CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD SD-14.
5. CONCRETE BRICK MAY BE USED IN LIEU OF HARD COMMON CLAY BRICK. JUMBO BRICK WILL BE PERMITTED.
6. FOR 8’-0” IN HEIGHT OR LESS USE 8” WALL, OVER 8’-0” IN HEIGHT USE 12” WALL TO 6’-0” FROM TOP OF WALL, AND 8” WALL FOR THE REMAINING 6’-0”.
7. FOR FRAME AND CRATE DETAIL SEE STANDARD SD-06.
8. ALL PIPE IN STORM DRAIN STRUCTURE SHALL BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
9. WEEP HOLE(S) SHALL BE PLACED IN BACK WALL. A STONE DRAIN CONSISTING OF 1 (ONE) CUBIC FOOT OF NUMBER 789 STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.
### Dimensions of Box and Pipe

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### Dimensions of Box and Pipe

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<th>Height W</th>
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</table>
| 30"           | 3'0" | 2'4"  | 3'4"   | 3'2"     | VAR.
| 36"           | 3'0" | 2'4"  | 3'10"  | 3'8"     | VAR.

### Top Slab Reinforcement

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<td>2</td>
<td>3</td>
<td>19</td>
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**Diagram**:  
- **SECTION X–X**:  
  - #4 BARS "V" 
  - #8 BARS "W"  
  - 6"  
  - 1-1/2"  

- **SECTION Y–Y**:  
  - #4 BARS "U" 
  - #4 BARS "V" 
  - #4 BARS "U" 
  - 3" 
  - 1-1/2" 
  - 6"
NOTES:

1. FOR CONSTRUCTION OF THE CATCH BASIN WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6 IN. THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE 8 IN. THICK.

2. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 8 IN. THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LUG OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. INCH PER FT. IS MET.

3. FOR CONSTRUCTION OF THE CATCH BASIN TOP CLASS 4000 OR BETTER CONCRETE SHALL BE USED WITH REINFORCING STEEL AS SHOWN.

4. MORTAR SHALL BE TYPE S OR M.

5. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55, AND M 221.

6. IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP 10 STANDARD DRAWING SD-14.

7. FOR MANHOLE DETAILS SEE STANDARD SD-4.

8. THE NUMBER OF BOX OPENINGS SHALL BE CONSTRUCTED, AS DIRECTED BY THE ENGINEER, TO FIT FIELD CONDITIONS.


11. THE SOFFIT (INSIDE TOP OF PIPE) OF THE OUTLET PIPE SHOULD BE NO HIGHER THAN THE SOFFIT OF THE INLET PIPE, UNLESS OTHERWISE SHOWN ON PLANS.
GENERAL NOTES:
1. ALL EXPOSED CONCRETE TO BE CHAMFERED 1".
2. ALL CONCRETE TO BE 3600 P.S.I.
3. ALL EXPOSED JOINTS SHALL BE CONCAVE TOOLSD.
4. MORTAR JOINTS SHOULD BE BETWEEN 3/8" AND 5/8" THICK.
5. CONCRETE BRICK MAY BE USED IN LIEU OF HARD COMMON CLAY BRICK. JUMBO BRICK WILL BE PERMITTED.
6. FOR 8"-0" IN HEIGHT OR LESS USE 8" WALL. OVER 8"-0" IN HEIGHT USE 12" WALL TO 6"-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6"-0".
7. ALL JUNCTION BOXES OVER 3"-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1"-2" ON CENTER. STEPS SHALL BE IN ACCORDANCE WITH STANDARD SD-14. MANHOLE OPENING TO ALIGN WITH STEPS.
8. FOR FRAME (RIM) AND COVER DETAIL SEE STANDARD SD-13.
9. ALL PIPE IN STORM DRAIN STRUCTURE TO BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
10. WEEP HOLES SHALL BE PLACED IN BACK WALL. A STONE DRAIN CONSISTING OF 1 (ONE) CUBIC FOOT OF NUMBER 789 STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.
11. ALL SLABS SHALL BE FORMED.

DIMENSIONS OF BOX AND PIPE

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MANHOLE FRAME TO BE SET IN 1/2" OF CEMENT MORTAR

COVER DETAIL
GENERAL NOTES:

STANDARD OR JUMBO BRICK SHALL BE USED FOR WALL CONSTRUCTION.
REINFORCING BRICK OR BLOCK ARE OPTIONAL.

A. ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL SHALL
BE INCLUDED IN THE UNIT PRICE $2.50 FOR EACH UNIT.

B. EACH END OF WALLS OR WALLS IN POSITIVE CORNER, CONTINUOUS CORNER, CURVATURE OR END OF WALLS BEING CURVED, SHALL MEET THE EXISTING WALL "C" DOWEL BAR 1-1/2" IN DEPTH.

C. AN EXISTING WALL "C" DOWEL BAR 1-1/2" IN DEPTH, WITH HORIZONTAL CLEARANCE OF 1-1/2" IN DEPTH, WITH HORIZONTAL CLEARANCE OF 1-1/2" IN DEPTH, SHALL BE REQUIRED.

D. DOWEL "C" BARS SHALL BE PLACED AT A MAXIMUM OF 12" CENTERS.

E. CONSTRUCTION OF THE JUNCTION BOX SHALL BE IN ACCORDANCE WITH THE SOUTHERN STANDARD SPECIFICATIONS.
GENERAL NOTES:

STANDARD OR JUMBO BRICK SHALL BE USED FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL.

ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH UNIT.

OPTIONAL MANHOLE SHALL BE INSTALLED IN POSITION AS DIRECTED BY THE ENGINEER. ALL REBAR CROSSING THIS OPENING SHALL BE CUT OR BENT TO ALLOW 2" MINIMUM CONCRETE COVERAGE. THE OPENING SHALL BE ENCLOSED WITH B "A" BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF A 3" CONCRETE COVERAGE IS OBTAINED. REFERENCE STANDARD SD-13 FOR MANHOLE INFORMATION.

JUNCTION BOXES OVER 3’-6” IN DEPTH WITH MANHOLES SHALL REQUIRE STEPS TO BE PLACED ON 1’-2” CENTERS. REFERENCE DRAINAGE STANDARD SD-14.

DOWEL "C" BARS SHALL BE SPACED AT A MAXIMUM OF 12” CENTERS.

MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12’.

CONSTRUCTION OF THE JUNCTION BOX SHALL BE IN ACCORDANCE WITH SECTION 719 OF THE SCDOT STANDARD SPECIFICATIONS.

BILL OF MATERIAL

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<td>C</td>
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<td>1’-4¼&quot;</td>
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<tr>
<td>Y</td>
<td>14</td>
<td>#5</td>
<td>6’-11¾”</td>
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STEEL TOTAL WEIGHT 239.8
GENERAL NOTES:
1. ALL CASTINGS SHALL BE MADE OF CLEAN, EVEN GRAIN, TOUGH GREY CAST IRON. THE CASTING SHALL BE SMOOTH, TRUE TO PATTERN AND FREE FROM PROJECTIONS, SAND HOLES, WARP AND OTHER DEFECTS.
2. ALL CASTINGS SHALL BE COATED WITH COAL TAR PITCH VARNISH WHILE HOT.
3. ALL COVERS USED FOR STORM DRAIN STRUCTURES SHALL HAVE "STORM SEWER" CAST ON THEM. ALL COVERS USED FOR SANITARY SEWER STRUCTURES SHALL HAVE "SANITARY SEWER" CAST ON THEM.
4. THE IRON USED FOR THESE CASTINGS SHALL CONFORM TO THE SPECIFICATIONS OF THE ASTM DESIGNATION A48 FOR CLASS 35 GREY IRON.
NOTES:
1. STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE APPROPRIATE CITY/COUNTY ENGINEERING DEPARTMENT.
2. ALL STEPS SHALL PROTRUDE 4" FROM INSIDE FACE OF STRUCTURE WALL.

SIDE VIEW
CAST IRON

POLYPROPYLENE PLASTIC

#3 DEFORMED STEEL ROD

SECTION A–A

REINFORCING STEEL

SIDE VIEW
REINFORCING STEEL NOT TO BE USED IN SANITARY SEWER MANHOLES.

ELEVATION

REINFORCING STEEL NOT TO BE USED IN SANITARY SEWER MANHOLES.

PLAN

SIDE VIEW
COMPOSITE

ELEVATION

PLAN

SIDE VIEW
CAST IRON
GENERAL NOTES:
1. ALL DROP INLETS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD SD–14.
2. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.
3. MORTAR JOINTS SHOULD BE BETWEEN 3/8" AND 5/8" THICK.
4. BRICK MASONRY DROP INLET NOT TO BE USED IN LOCATIONS SUBJECT TO TRAFFIC.
5. JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF HARD COMMON CLAY BRICK.
6. FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
7. FOR FRAME AND GRATE DETAIL SEE STANDARD SD–16.
8. ALL PIPE IN STORM DRAIN STRUCTURE TO BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
9. ALL SLABS SHALL BE FORMED.

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CITY OF ROCK HILL
PUBLIC WORKS DEPARTMENT
STORMWATER DIVISION
P.O. BOX 11706
ROCK HILL, SC 29731–1706
(803) 329–5614
(803) 325–2526 FAX

STANDARD DETAIL SD–15
BRICK DROP INLET

REVISIONS: DATE: PAGE NO.

5/29/2001 1 OF 1
SCALE: N.T.S.
ELEVATION

GENERAL NOTES:

USE PIPE COLLAR FOR EXTENDING EXISTING CONCRETE PIPE CULVERTS AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. THIS INCLUDES EXTENDING EXISTING PIPES WITH PIPES WITH PIPES OF DIFFERENT MATERIALS.

THE PIPE COLLAR SHALL BE CONSTRUCTED OF CLASS "B" OR BETTER CONCRETE.

ALL REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS SHALL BE OBSERVED.

* USE 12 INCH DIAMETER VALUES FOR PIPE DIAMETERS LESS THAN 12 INCH.

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PLAN VIEW

SECTION A–A

SECTION B–B

SECTION C–C

NOTES:

1. TRANSITION IS NOT TO BE LOCATED WITHIN THE CURB RADIUS.