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## CITY OF SPOKANE STANDARD PLANS – SECTION B

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NOTES:

1. THE NAME OF THE MANUFACTURER SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".


3. DIMENSIONS SHALL HAVE ±1/16" TOLERANCE, EXCEPT AS NOTED.

4. EDGES SHALL HAVE 1/8" RADIUS, 1/8" CHAMFER OR COMPLETE DEBURRING.

5. WELDING IS NOT PERMITTED.

6. AS AN ALTERNATE, EIGHT PADS 1 1/2" x 3/4" x 1/8", INTEGRALLY CAST WITH THE GRATE MAY BE USED.

7. WHEREVER PRACTICAL & FEASIBLE, USE GRATE SHOWN ON THIS SHEET IN CONTINUOUS GRADE CONDITIONS.
NOTES:

1. THE NAME OF THE MANUFACTURER SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
3. DIMENSIONS SHALL HAVE ±1/16" TOLERANCE, EXCEPT AS NOTED.
4. EDGES SHALL HAVE 1/8" RADIUS, 1/8" CHAMFER OR COMPLETE DEBURRING.
5. WELDING IS NOT PERMITTED.
6. AS AN ALTERNATE, EIGHT PADS 1 1/2" x 3/4" x 1/8", INTEGRALLY CAST WITH THE GRATE MAY BE USED.
7. DIMENSION FOR THE GRATE ASSOCIATED WITH CATCH BASIN TYPE 3. OTHER DIMENSIONS, THE NUMBER & POSITION OF THE VANES WILL ALSO VARY.
8. WHEREVER PRACTICAL & FEASIBLE, USE GRATE SHOWN ON THIS SHEET IN SUMP CONDITIONS.

SECTION A–A

SECTION B–B

SEE VANE DETAIL

SECTION C–C

VANE DETAIL
3/8" SQ STOCK

SECTION A-A

3/8" X 1 1/4" FLAT STOCK

MIN. 15"
MAX. 18"

SECTION B-B

20 1/2"
21 1/2" (1)

3/8"

(2) NOTCHES
(TYP)

END VIEW

(1) DIMENSION FOR FRAME ASSOCIATED WITH CATCH BASIN TYPE 3

3/4" BEND RADIUS

ALTERNATE CONFIGURATION
NOTES:
1. SEE SECTIONS 9-06.15(1) AND 9-05.15(2)
2. FRAME: GRAY IRON CASTING, SEE SECTION 9-06.9.
4. FOUNDRY NAME, DATE, HEAT NUMBER AND MATERIAL IN RAISED LETTERS ON INTERIOR OF EACH CASTING.
5. TOLERANCES ± 0.0625".
6. GRATE GUARD REQ'D. SEE CITY STD PLAN B-2C.
7. CONTINUOUS LIP ON BOTTOM OF TANGS TO REST GRATE GUARD TAB ON.
8. WHEREVER PRACTICAL & FEASIBLE, USE FRAME & GRATE W/HOOD SHOWN ON THIS SHEET IN SUMP CONDITIONS.

DIRECTIONAL VANED GRATE
SEE CITY STANDARD PLAN B-2A

FRAME AND GRATE
FOR CATCH BASIN TYPE 1

ADOPTED: 05/2007
REVISED: 04/2013
SUPERSEDES: 05/2007
CHECKED BY: JAG
SCALE: NTS
DWG/REV. BY: PCF/RDC

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. B-3A
NOTES:

1. SEE SECTIONS 9-05.15(1) AND 9-05.15(2)
2. FRAME: GRAY IRON CASTING, SEE SECTION 9-06.9.
4. FOUNDRY NAME, DATE, HEAT NUMBER AND MATERIAL IN RAISED LETTERS ON INTERIOR OF EACH CASTING.
5. TOLERANCES ± 0.0625".
6. GRATE GUARD REQ'D. SEE CITY STD PLAN B-2C.
7. CONTINUOUS LIP ON BOTTOM OF TANGS TO REST GRATE GUARD TAB ON.
8. WHEREVER PRACTICAL & FEASIBLE, USE FRAME & GRATE W/HOOD SHOWN ON THIS SHEET IN SUMP CONDITIONS.
NOTES:

1. SEE SECTIONS 9-05.15(1) AND 9-05.15(2)
2. FRAME: GRAY IRON CASTING, SEE SECTION 9-06.9.
4. FOUNDRY NAME, DATE, HEAT NUMBER AND MATERIAL IN RAISED LETTERS ON INTERIOR OF EACH CASTING.
5. TOLERANCES ± 0.0625".
6. GRATE GUARD REQ'D. SEE CITY STD PLAN B-2C.
7. CONTINUOUS LIP ON BOTTOM OF TANGS TO REST GRATE GUARD TAB ON.
8. USE DIRECTIONAL VANED GRATE (B-2A) IN CONTINUOUS GRADE CONDITIONS & BI-DIRECTIONAL VANED GRATE (B-2B) IN SUMP CONDITIONS
ADJUST THE FRAME & GRATE UNIT SO AS TO BE 1" LOWER THAN THE NORMAL GUTTER GRADE. FINAL FINISHED CURB EXPOSURE TO BE 7" (0.58').

3'-0" MIN. FOR PVC
2'-0" MIN. FOR D.I. PIPE

1" MIN. CROSSFALL

4"

8" MIN. DIA. SEWER PIPE
SET PIPE 4" INTO BARREL FOR FUTURE MAINTENANCE (SEE NOTE 6).

ALTERNATE LOCATION (SEE NOTE 8).

SOLID BARREL & BASE (48" I.D.)

10 5/8"

FRAME & VANED GRATE: NORMAL INSTALLATION FOR USE IN CONTINUOUS GRADE SITUATIONS

NOTES:

1. SEE STD. PLAN B–120 FOR OUTLET TRAP. TRAP REQUIRED WHEN CATCH BASIN CONNECTED TO CITY STORM SYSTEM, DRYWELL, ABSORPTION TRENCH, OR OTHER U/G INJECTION STRUCTURE/FACILITY. TRAP TO REMAIN REMOVABLE FOR MAINTENANCE THEREFORE NO MECHANICAL CONNECTION BETWEEN TRAP & OUTLET ALLOWED. VERTICAL PROJECTION OF TRAP NOT TO EXTEND BEYOND C/L OF ACCESS OPENING.

2. IF AN INLET PIPE IS PRESENT, THE INVERT SHALL BE HIGHER IN ELEVATION THAN THE OUTLET PIPE INVERT. A C.B. WITH AN INLET PIPE IS UTILIZED ONLY WHEN CONNECTING ADDITIONAL C.B.'S AT AN INTERSECTION OR WHEN ADDING GRATE INLET TYPE 3. A C.B. WITH INLET PIPE(S) IS NOT ALLOWED AS A SUBSTITUTE FOR A M.H.

3. SEE SEC. 9–12 FOR PRECAST CONCRETE CATCH BASINS.

4. SEE STD. PLAN Z–118 FOR BASE SLAB & FOUNDATION DETAILS.

5. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.

6. ADJUSTMENT SECTION, CONE, BARREL, & PIPE OPENINGS TO BE SEALED PER SECTION 7–05.

7. CONCRETE CURB & GUTTER SHALL BE BLOCKED OUT FOR A 5–FT LENGTH CENTERED @ THE C.B. TO ALLOW FOR LOCATING CB ADJACENT TO CURB.

8. USE ALTERNATE LOCATION FOR INLET/OUTLET PIPES ONLY IF INLET PIPE REQUIRES ADDITIONAL DEPTH FOR SLOPING.

9. SEE STANDARD PLAN A–8 FOR ADJUSTMENT SECTION REQUIREMENTS.

10. A DESIGN VARIANCE IS REQUIRED BEFORE A CATCH BASIN — TYPE 0 IS INSTALLED.
**FRAME & VANED GRATE: NORMAL INSTALLATION**

FOR USE IN CONTINUOUS GRADE SITUATIONS

**NOTES:**

1. SEE STD. PLAN B-120 FOR OUTLET TRAP. A TRAP IS REQUIRED ON ANY OUTLET PIPE. TRAP TO REMAIN REMOVABLE FOR MAINTENANCE THEREFORE NO MECHANICAL CONNECTION BETWEEN TRAP & OUTLET ALLOWED. VERTICAL PROJECTION OF TRAP NOT TO EXTEND BEYOND C/L OF ACCESS OPENING.

2. IF AN INLET PIPE IS PRESENT, THE INVERT SHALL BE HIGHER IN ELEVATION THAN THE OUTLET PIPE INVERT. A C.B. WITH AN INLET PIPE IS UTILIZED ONLY WHEN CONNECTING ADDITIONAL C.B.’S AT AN INTERSECTION OR WHEN ADDING GRATE INLET TYPE 3. A.C.B. WITH INLET PIPE(S) IS NOT ALLOWED AS A SUBSTITUTE FOR A M.H.

3. SEE SEC. 9-12 FOR PRECAST CONCRETE CATCH BASINS.

4. SEE STD. PLAN Z118 FOR BASE SLAB & FOUNDATION DETAILS.

5. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.

6. ADJUSTMENT SECTION, CONE, BARREL, RISER SECTIONS (IF USED), & PIPE OPENINGS TO BE SEALED PER SECTION 7-05.

7. CONCRETE CURB & GUTTER SHALL BE BLOCKED OUT FOR A 5-FT LENGTH CENTERED ON THE C.B. TO ALLOW FOR LOCATING CB ADJACENT TO CURB.

8. USE ALTERNATE LOCATION FOR INLET/OUTLET PIPES ONLY IF INLET PIPE REQUIRES ADDITIONAL DEPTH FOR SLOPING. PROVIDE 4-FT DEPTH UNDER TRAP.

9. SEE STANDARD PLAN A-8 FOR ADJUSTMENT SECTION REQUIREMENTS.
NOTES:

1. SEE SEC 9–12 FOR PRECAST CONCRETE CATCH BASINS.

2. SEE STD PLAN B–114 FOR CATCH BASIN, TYPE 2, FRAME & COVER.

3. SEE STD PLAN B–105 FOR COVER & SILL BLOCK.

4. SEE STD PLAN W–106 FOR GUTTER DETAILS.

5. SEE STD PLAN Z–118 FOR BASE SLAB & FOUNDATION DETAILS.

6. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.

7. ADJUSTMENT SECTION, CONE, BARREL JOINTS, RISER SECTIONS (IF USED), & PIPE OPENINGS TO BE SEALED PER SEC 7–05.

8. SEE STD PLAN B–120 FOR OUTLET TRAP. A TRAP IS REQ'D ON ANY Outlet Pipe. Trap to remain removable for maintenance. Therefore, no mechanical connection between trap & outlet pipe is allowed. Vertical projection of trap not to extend beyond C/L of access opening.

9. SEE STANDARD PLAN A–8 FOR ADJUSTMENT SECTION REQUIREMENTS.

10. C.B. TYPE 2 SHALL BE UTILIZED WHERE GUTTER GRADIENTS ARE \( \pm 0.75\% \) (.0075).
CONC COLLAR, 6"W x 3"D, CAST-IN-PLACE ON 3-SIDES OF CONVERSION UNIT. USE HMA IN LIEU OF CONC COLLAR FOR ROAD RESURFACING OR RECONSTRUCTION PROJECTS.

FRAME & DUAL VANED GRATES PER WSDOT STD PLAN B-40.40-02

CONVERSION UNIT FOR C.B. TYPE 2. SEE STD PLANS B-101D2 & B-101D3

CATCH BASIN - TYPE 2 FRAME & COVER SEE STD PLAN B-114

GROUT & SEAL-ADJUSTMENT SECTION, CONE, BARREL JOINTS, RISER SECTIONS (IF USED), & PIPE OPENINGS PER SECTION 7-05.

MODIFY CATCH BASIN CONE TO ACCOMMODATE CONVERSION UNIT AS REQUIRED

OUTLET TRAP REQUIRED. SEE COS STD PLAN B-120. TRAP TO REMAIN REMOVABLE FOR MAINTENANCE THEREFORE, NO MECHANICAL CONNECTION BETWEEN TRAP & OUTLET PIPE IS ALLOWED. VERTICAL PROJECTION OF TRAP NOT TO EXTEND BEYOND C/L OF ACCESS OPENING.

MAINTENANCE REQUIRES MINIMUM BASE TO TRAP DISTANCE OF 4'-0"

4'-0" I.D.

4'-0" MIN

CATCH BASIN - TYPE 2 W/ CONVERSION UNIT FOR WSDOT VANED GRATES

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

APPROVED BY

REVISED: 05/2021
SUPERSEDES: 07/2017
CHECKED BY: JAG
SCALE: NTS
Dwg/Rev. By: TCB/MLD

STANDARD PLAN No.

B-101D1
NOTES:
1. ANGLE A SHALL BE SET SO THAT THE PREFABRICATED FRAME SHALL HAVE FULL BEARING ON BOTH ENDS. THE FINISHED TOP OF CONCRETE SHALL BE EVEN WITH THE TOP OF STEEL ANGLE.
2. THE CONVERSION UNIT WITH FRAME & GRATE SHALL BE PLACED TO MATCH THE GUTTER SLOPE TO PROVIDE AN UNOBSTRUCTED FLOW LINE.
3. ALL EXPOSED CONCRETE EDGES SHALL BE FINISHED WITH A 1/2" RADIUS EDGER TOOL.
4. CONSTRUCT CONCRETE LEDGE FOR GRATE FRAME AROUND ALL FOUR SIDES. THE LONG CONCRETE LEDGES ARE RAISED 3/8" ABOVE THE SHORT LEDGES SINCE THEY RECEIVE NO 1/2" ANGLE.
5. ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.
6. SEE CONTRACT FOR TYPE OF GRATE SPECIFIED. SEE WSDOT STANDARD PLAN B-40.40-00 FOR FRAME & GRATE DETAILS.
7. ALL REBAR SHALL HAVE A MINIMUM OF 2" COVERAGE ON ALL SIDES.
CURB & GUTTER INLET FRAME & BI-DIRECTIONAL GRATE
FOR USE IN SUMP SITUATIONS

1. SEE STD. PLAN B–120 FOR OUTLET TRAP. A TRAP IS REQUIRED ON ANY OUTLET PIPE. TRAP TO REMAIN REMOVABLE FOR MAINTENANCE THEREFORE NO MECHANICAL CONNECTION BETWEEN TRAP & OUTLET ALLOWED. VERTICAL PROJECTION OF TRAP NOT TO EXTEND BEYOND C/L OF ACCESS OPENING.
2. IF AN INLET PIPE IS PRESENT, THE INVERT SHALL BE HIGHER IN ELEVATION THAN THE OUTLET PIPE INVERT. A C.B. WITH AN INLET PIPE IS UTILIZED ONLY WHEN CONNECTING ADDITIONAL C.B.'S AT AN INTERSECTION OR WHEN ADDING GRATE INLET TYPE 3. A C.B. WITH INLET PIPE(S) IS NOT ALLOWED AS A SUBSTITUTE FOR A M.H.
3. SEE SEC. 9–12 FOR PRECAST CONCRETE CATCH BASINS.
4. SEE STD. PLAN Z–118 FOR BASE SLAB & FOUNDATION DETAILS.
5. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
6. ADJUSTMENT SECTION, CONE, BARREL, RISER SECTIONS (IF USED), & PIPE OPENINGS TO BE SEALED PER SECTION 7–05.
7. CONCRETE CURB & GUTTER SHALL BE BLOCKED OUT FOR A 5–FT LENGTH CENTERED ON THE C.B. TO ALLOW FOR LOCATING C.B. ADJACENT TO CURB.
8. USE ALTERNATE LOCATION FOR INLET/OUTLET PIPES ONLY IF INLET PIPE Requires ADDITIONAL DEPTH FOR SLOPING. PROVIDE 4–FT DEPTH UNDER TRAP.
9. SEE STANDARD PLAN A–8 FOR ADJUSTMENT SECTION REQUIREMENTS.

ADOPTED: 10/2019
REVIEWED: 04/2018
SUPERSEDES: NONE
CHECKED BY: JAG, GS
SCALE: NTS
DRAWN/REV BY: RJS/MLD

CATCH BASIN—TYPE 3
ENGINEERING SERVICES
STANDARD PLAN No. B–101E
CRUSHED SURFACING BASE COURSE, BACKFILL ABOVE GEOTEXTILE FABRIC TO BOTTOM OF PAVEMENT

MANHOLE FRAME & COVER

GROUT & SEAL ADJUSTMENT SECTION SEE STANDARD PLAN A-8

2'-0" MIN.

2'-0" MIN.

1'-6" MIN.

GROUT & SEAL BOTH INSIDE/OUTSIDE OF CONE

8" MIN. Ø

SLOPE AT:

4'-0" I.D.

2'-0" MIN.

2'-0" MIN.

TOP OF PIPE

8" MIN. Ø

GEOTEXTILE FABRIC

ALTERNATE LOCATION (SEE NOTE B) NO PIPE JOINTS ALLOWED IN GRAVEL BACKFILL ENVELOPE

SECTION A-A

NOTES:

1. SEE SEC 9-12 FOR PRECAST CONCRETE DRYWELLS.

2. SEE SEC 9-03.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.

3. SEE SEC 9-33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY CLASS A). OVERLAP ALL FABRIC JOINTS 1”-6” MIN. WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.

4. SEE STD PLANS A-12 & A-13 FOR MANHOLE FRAME & COVER.

5. SEE STD PLAN Z-118 FOR BASE & FOUNDATION DETAILS.

6. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.

7. ADJUSTMENT SECTION, CONE & BARREL JOINTS TO BE SEALED PER SEC 7-05.

8. USE ALTERNATE PIPE LOCATION ONLY IF PIPE REQUIRES ADDITIONAL DEPTH FOR SLOPING, DEPTH OF COVER, OR OTHER RESTRICTIVE FIELD CONDITION.

9. SEE STANDARD PLAN A-8 FOR ADJUSTMENT SECTION REQUIREMENTS.

10. SEE STANDARD PLAN W-103 FOR CRUSHED ROCK REQUIREMENTS.

SECTION B-B

#4 BARS Ø 10" O.C.

EA WAY: (TYP)

FOR STD PLANS B-102D & B-102F

DRYWELL – TYPE I

ENGINEERING SERVICES

CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. B-102C

APPROVED BY

ENGINEERING SERVICES DIRECTOR

KYLE WILCHER

GTM ENGINEER

DAN BULLER, P.E.

REVISED: 10/2019

SUPERSEDES: 01/2017

CHECKED BY: JAG

SCALE: NTS

DWG/REV. BY: SRM/MLD

DRYWELL – TYPE I
NOTES:

1. SEE SEC 9–12 FOR PRECAST CONCRETE DRYWells.
2. SEE SEC 9–03.12(5) FOR GRAVEL BACKFILL FOR DRYWells.
3. SEE SEC 9–33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS
   1'-6" MIN. WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
4. SEE STD PLANS A-12 & A-13 FOR MANHOLE FRAME & COVER.
5. SEE STD PLANS B-102C & Z-118 FOR BASE & FOUNDATION DETAILS.
6. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
7. ADJUSTMENT SECTION, CONE & BARREL JOINTS TO BE SEALED PER SEC 7–05.
8. USE ALTERNATE PIPE LOCATION ONLY IF PIPE REQUIRES ADDITIONAL DEPTH FOR SLOPING, DEPTH OF COVER, OR
   OTHER RESTRICTIVE FIELD CONDITION.
9. SEE STANDARD PLAN A–B FOR ADJUSTMENT SECTION REQUIREMENTS.
10. SEE STANDARD PLAN W–102 FOR CRUSHED ROCK REQUIREMENTS.
NOTES:

1. SWALE DESIGN WIDTH & DEPTH WILL VARY AS REQ'D TO PROVIDE ADEQUATE TREATMENT STORAGE FOR THE GIVEN STORM VOLUME.

2. PROVIDE A 1'-0" MIN. FLAT & FLUSH AREA ADJACENT TO SIDEWALK WHEN USING A SIDE-SLOPE NO STEEPER THAN 3:1. IF FLAT AREA IS NOT PROVIDED ADJACENT TO SIDEWALK, THEN USE A SIDE-SLOPE NO STEEPER THAN 4:1. SEE DES. STD. 6.4-2.

3. WHEN SWALE WIDTH IS ADEQUATE, PROVIDE A PRACTICAL FLAT BOTTOM. OTHERWISE, A "V" BOTTOM IS ACCEPTABLE.

4. DRYWELL SHALL BE INSTALLED AT A 10 FT MIN DISTANCE FROM LOWEST INLET TO PREVENT DIRECT INFLOW INTO THE OVERFLOW GRATE. DRYWELL MUST BE LOCATED WITHIN 8' OF ROADWAY FOR ACCESS & MAINTENANCE. PROVIDE A 3" MIN FREEBOARD BETWEEN LOWEST SWALE INLET & TOP OF DRYWELL GRATE OR OVERFLOW BERM.

5. SEE THE SPOKANE REGIONAL STORMWATER MANUAL (SRSM) INCLUDING TABLE 5-1 FOR INFILTRATION & OTHER DESIGN CRITERIA FOR TREATMENT ZONE & SUBGRADE INFILTRATION LAYER.

6. 2" EXPOSURE BETWEEN TOP OF CURB INLET & SWALE DRAIN PAD TO TOP OF SOD ROOT MASS OR HYDROSEED WITH A DRYLAND GRASS MIX.


TYPICAL SECTION

DRYWELL IN SWALE

BIO-INFILTRATION SWALE W/ OVERFLOW STRUCTURE

ADOPTED: 
REVISED: 04/2022
SUPERSEDES: 04/2018
CHECKED BY: JAG/GSN
SCALE: NTS
DWG/REV. BY: RJS/MLD

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. B-102F
PLACE (16) PCS. OF #4 EPOXY COATED REBAR AS SHOWN W/ 1 ½" MIN. EDGE CLR. & CENTERED IN 5" SLAB DEPTH.

NOTES:

1. SEE STANDARD PLAN B-114 FOR CATCH BASIN TYPE 2 FRAME & COVER.

2. UTILIZE CLASS 4000, AIR-ENTRAINED CONCRETE FOR CATCH BASIN COVER & SILL BLOCK.

PLACE (3) PCS. #4 EPOXY COATED REBAR AS SHOWN W/ 1 ½" MIN. EDGE CLR.

CATCH BASIN COVER TYPE 2 WITH SILL BLOCK

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. B-105
Notes:

1. Use absorption trench where called for in the plans or as directed by the engineer & in accordance w/ section 7-05.3(101).

2. Drain pipe to be laid on a -0.5% to -1.0% grade away from the drywell.

3. Drain pipe to be solid wall for 1st 20-ft from drywell. Remainder of drain pipe to be perforated per section 9-05.

4. Outlet trap per standard plan B-120 to be installed on drywell exit pipe, seal pipe collar to drywell.

5. Overlap fabric a minimum of 1'-6". See section 9-33 for woven geotextile fabric (moderate survivability-class A).


7. See section 9-03.12(5) for gravel backfill for drywells.

Approved by: 

Revised: 01/2017  
Supersedes: 05/2007  
Checked by: JAG  
Scale: NTS  
DWG/REV. by: REP/RLB

Absorption trench details for storm drainage

Engineering services  
City of Spokane, Washington  
Standard Plan No. B-111
CAST IRON FRAME MIN. WEIGHT 168 LBS.

SECTION A-A

27 5/8"
26 3/8"
24" C.O.
1"
6"
3/4"
5/8"
1"
26 3/4"
34 1/8"

SECTION B-B

26 3/16"
3/4"
8 3/4"
1"
1" 2" 2 7/32"
1 1/2"
1 7/8"
1"

SECTION C-C

DRAWING NOTES:
1. See Section 9-05.15 (2).
4. Foundry Name, Date, Material and Heat Number In Raised Letters on Interior Face of Each Casting.
5. Fit Tolerance 1/8"(+/-).

CATCH BASIN FRAME & GRATE

APPROVED BY
CITY ENGR.
CH. DESIGN ENGR.

SCALE ___ NIS ___ ADOPTED ___ 2/10 ___
REVISED ___ ___ SUPERSEDES ___

DEPT. OF PUBLIC WORKS
ENGR. DIVISION SPOKANE, WA
STANDARD PLAN No. B-113
PICK HOLE - 1" DIA, (TYP) 2 PLCS. LOCATE AT 180-DEG OPPOSITE EA OTHER

RAISED DOME, 3/8" DIA X 1/4" HT

GROOVE RINGS 3 EA, 1/4" WIDE X 1/8" DEEP

1/4 PLAN OF COVER

SECTION - COVER

1/4 PLAN OF FRAME

SECTION - FRAME

NOTES:

1. SEE SEC 9-05.15 FOR METAL CASTINGS.

2. ALL MATING SURFACES SHALL BE MACHINE FINISHED TO ENSURE A NON-ROCKING FIT.
NOTES:

1. CONCRETE USED IN CONSTRUCTION OF THIS BOX SHALL BE CLASS 4000 AS SPECIFIED IN SECTION 6–02 OF STANDARD SPECIFICATIONS.
2. GROUT & SEAL ADJUSTMENT SECTION. SEE STANDARD PLAN A–B.
TYPE 60A TRAP

1. TRAP TO BE MADE OF
   GALVANIZED SHEET METAL.
   MINIMUM THICKNESS 18 GA.

2. ALL JOINTS TO BE SEAMED,
   SPOT WELDED, AND SOLDERED
   OR CONTINUOUSLY BUTT-WELDED.

3. EXTERIOR WELDS SHALL BE
   GROUND SMOOTH.

PVC BELL ELBOW TRAP

1. 6" OR 8" WITH
   GASKETS REMOVED.

NOTES:

1. DIMENSION "D" IS NOMINAL DIAMETER OF OUTLET PIPE.