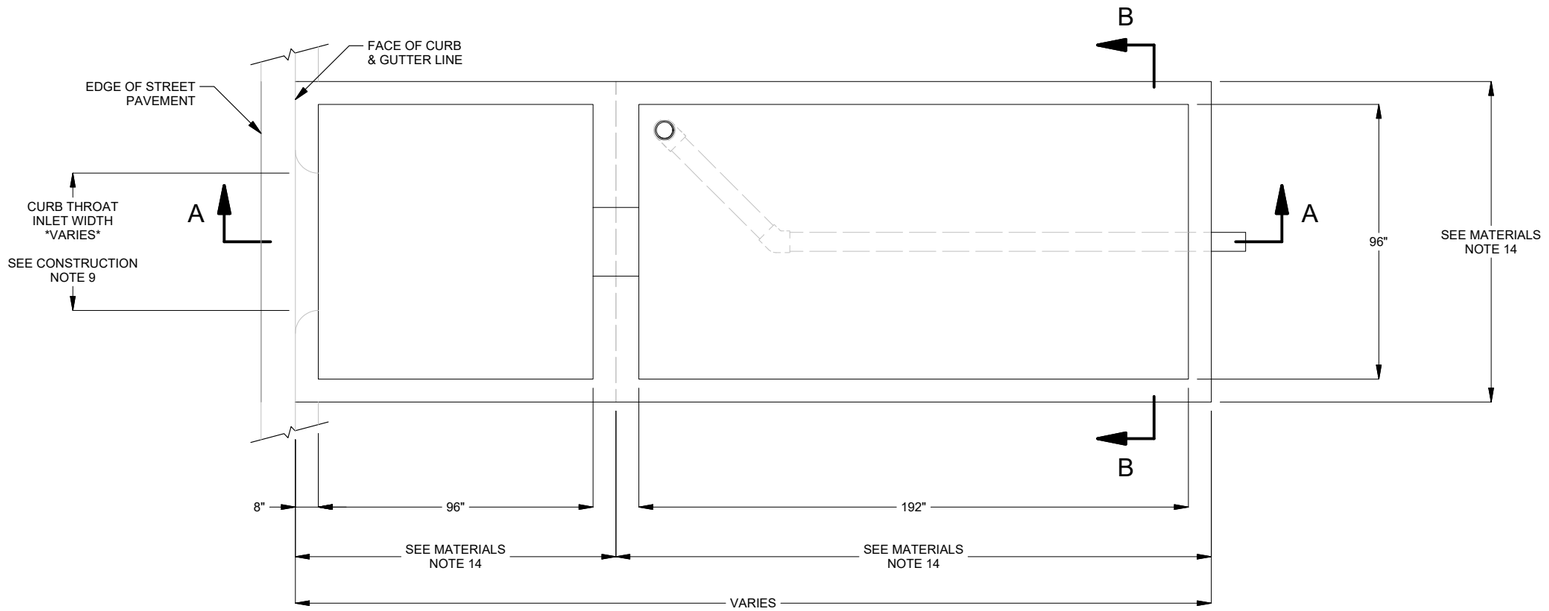
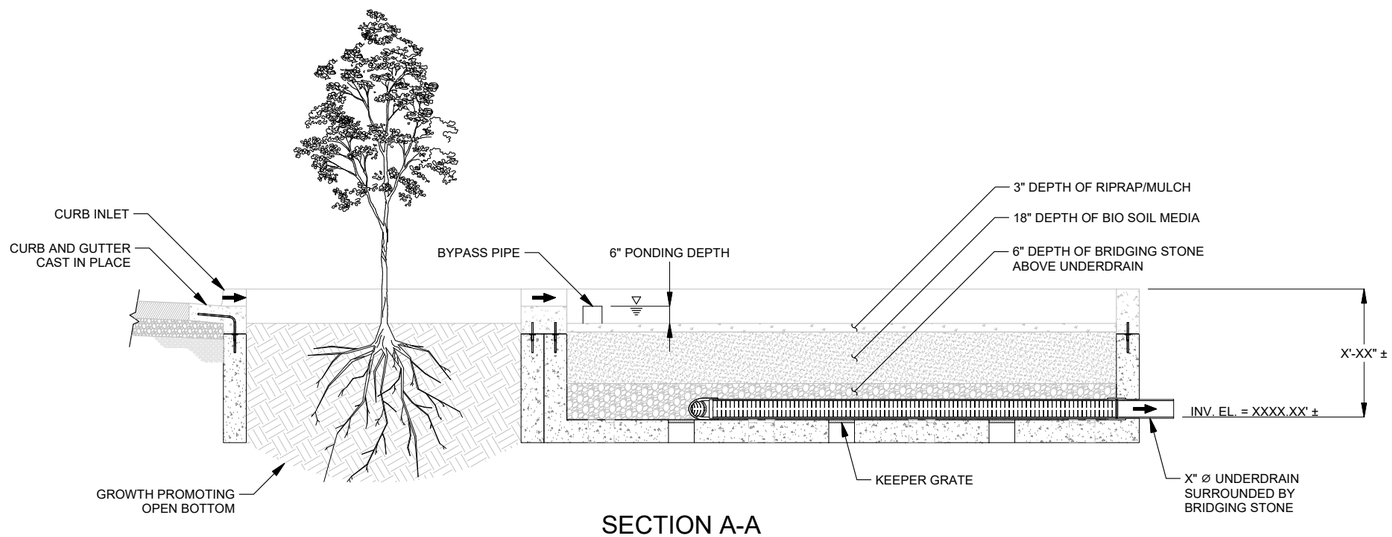


PLAN VIEW



SECTION A-A

STORMVAULT BIOFILTRATION (SVBF)

CONFIGURATION: TREE WELL (-TW)

MODEL: SVBF-TW 8X16

HYDRAULICS

STORMWATER QUALITY DESIGN FLOW (SQDF)	≤ XX.X-CFS
STORM DRAIN DESIGN CONVEYANCE FLOW	XX.X-CFS
RETURN REQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW	XX-YRS

TREATMENT

BIO SOILS FILTRATION MEDIA	PUBLIC DOMAIN BIO SOIL MEDIA*	JENSEN'S *SIERRA BLEND* **
BIO SOIL MEDIA UNITIZED TREATMENT FLUX RATE *HYDRAULIC SURFACE LOADING RATE (HSLR)*	10-IN/HR	193-IN/HR
	0.1-GPM/FT^2	2-GPM/FT^2
MODEL SVBF-TW 8X16 PEAK TREATMENT FLOW RATE	0.029-CFS	0.570-CFS
	12.8-GPM	256-GPM

*JENSEN BIORETENTION & INFILTRATION TREE/PLANTER ***STORMVAULT BIOFILTRATION*** SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 10-INCHES/HR WHEN USING SPECIFIED PUBLIC DOMAIN BIO SOIL MEDIA.

JENSEN BIORETENTION & INFILTRATION TREE/PLANTER ***STORMVAULT BIOFILTRATION* SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 193-INCHES/HR WHEN USING JENSEN'S ENGINEERED ***SIERRA BLEND*** BIO SOIL MEDIA.

1. JENSEN'S STORMVAULT BIOFILTRATION (***SVBF***) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF.
2. CAPTURED WATER QUALITY CONSTITUENTS:
   - TOTAL SUSPENDED SOLIDS (TSS)
   - PHOSPHORUS
   - TOTAL AND DISSOLVED COPPER
   - TOTAL AND DISSOLVED ZINC
   - OIL & GREASE
   - FECAL COLIFORM

CONSTRUCTION & INSTALLATION NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN PIPING OF THE ***SVBF*** SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C923, AS MADE BY KOR-N-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATERTIGHT.
3. CONTRACTOR MAY ALSO GROUT ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD POUR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS AS NECESSARY.
5. THE CONNECTION BETWEEN THE STORM DRAIN LINE AND THE ***SVBF*** SHALL BE MADE USING A RESILIENT CONNECTOR CONFORMING TO ASTM C923, AS MADE BY KOR-N-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATERTIGHT.
6. VEGETATION, FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
7. ***SVBF*** CAN READILY BE RECONFIGURED AS AN OPEN TOP SWALE SYSTEM TO RECEIVE SURFACE FLOW FROM ALL SIDES, ELIMINATING TOP SLAB AND TREE GRATE.
8. ***SVBF*** MAY BE DEPLOYED WITH UNFINISHED TOP OF WALLS TO BE POURED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS STREETSCAPE AND LANDSCAPE FEATURES.
9. INLETS THROUGH CURB CAN BE LOCATED ON ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARY PER DESIGN.

MATERIALS & DESIGN PARAMETERS

1. ALL DIMENSIONS ARE IN DECIMAL INCHES.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c = 5,000-psi AT 28-DAYS.
3. THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE II/V HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M C-150.
4. VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C857 & C858
5. ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN NPCA CERTIFIED PLANT.
6. IF REQUIRED, JENSEN WILL FURNISH VAULT WITH FLUID-APPLIED WATERPROOFING COATING AROUND ENTIRE INSIDE SURFACE OF ***SVBF***.
7. BRIDGING STONE SHALL BE CLEAN, WASHED.
8. ALL PVC PIPE SHALL CONFORM TO ASTM D 3034 (SDR-35) PIPE.
9. GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
10. STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS, www.jensenengineeredsystems.com.
11. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
12. JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
13. TREE GRATES TYPICALLY AVAILABLE IN 36" X 36" & 48" X 48"; OTHER GRATE SIZES AVAILABLE UPON REQUEST.
14. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.

SVBF-TW 8x16.idw

JENSEN STORMWATER SYSTEMS
521 DUNN CIRCLE, SPARKS, NV 89431
www.jensenwaterresources.com
(855) 468-5600

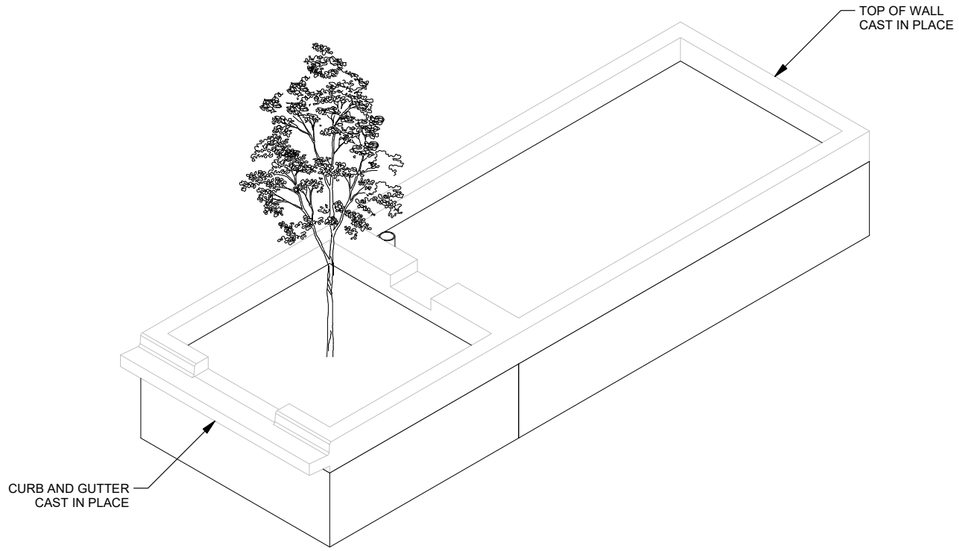
MODEL:
STORMVAULT BIOFILTRATION
TREE WELL
MODEL: SVBF-TW 8X16

PROJECT:
PROJECT NAME
CITY, STATE

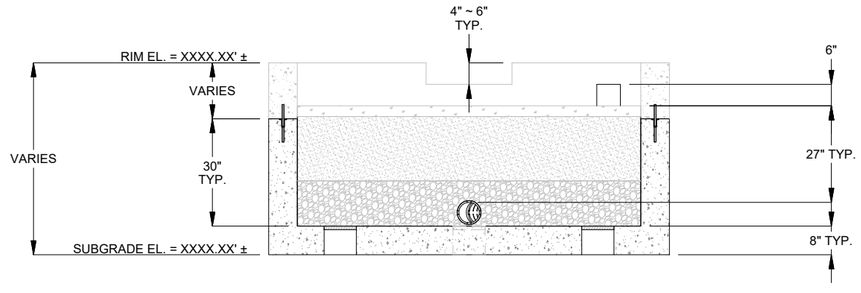
REV:

PART NUMBER: SVBF-TW 8x16
DRAWN BY: T. Schmaling
CREATED:
MODIFIED: 5/28/2020

SHEET: 1 OF 2



ISOMETRIC VIEW



SECTION B-B

STORMVAULT BIOFILTRATION (SVBF)

CONFIGURATION: TREE WELL (-TW)

MODEL: SVBF-TW 8X16

HYDRAULICS

STORMWATER QUALITY DESIGN FLOW (SQDF)	≤ XX.X-CFS
STORM DRAIN DESIGN CONVEYANCE FLOW	XX.X-CFS
RETURN REQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW	XX-YRS

TREATMENT

BIO SOILS FILTRATION MEDIA	PUBLIC DOMAIN BIO SOIL MEDIA*	JENSEN'S *SIERRA BLEND* **
BIO SOIL MEDIA UNITIZED TREATMENT FLUX RATE *HYDRAULIC SURFACE LOADING RATE (HSLR)*	10-IN/HR	193-IN/HR
	0.1-GPM/FT^2	2-GPM/FT^2
MODEL SVBF-TW 8X16 PEAK TREATMENT FLOW RATE	0.029-CFS	0.570-CFS
	12.8-GPM	256-GPM

*JENSEN BIORETENTION & INFILTRATION TREE/PLANTER ***STORMVAULT BIOFILTRATION*** SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 10-INCHES/HR WHEN USING SPECIFIED PUBLIC DOMAIN BIO SOIL MEDIA.

JENSEN BIORETENTION & INFILTRATION TREE/PLANTER ***STORMVAULT BIOFILTRATION* SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 193-INCHES/HR WHEN USING JENSEN'S ENGINEERED ***SIERRA BLEND*** BIO SOIL MEDIA.

1. JENSEN'S STORMVAULT BIOFILTRATION (***SVBF***) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF.
2. CAPTURED WATER QUALITY CONSTITUENTS:
   - TOTAL SUSPENDED SOLIDS (TSS)
   - PHOSPHORUS
   - TOTAL AND DISSOLVED COPPER
   - TOTAL AND DISSOLVED ZINC
   - OIL & GREASE
   - FECAL COLIFORM

CONSTRUCTION & INSTALLATION NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN PIPING OF THE ***SVBF*** SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C923, AS MADE BY KOR-N-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATERTIGHT.
3. CONTRACTOR MAY ALSO GROUT ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD POUR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS AS NECESSARY.
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MATERIALS & DESIGN PARAMETERS

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TREE WELL
MODEL: SVBF-TW 8X16

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DRAWN BY: T. Schmaling
CREATED:
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SHEET: 2 OF 2