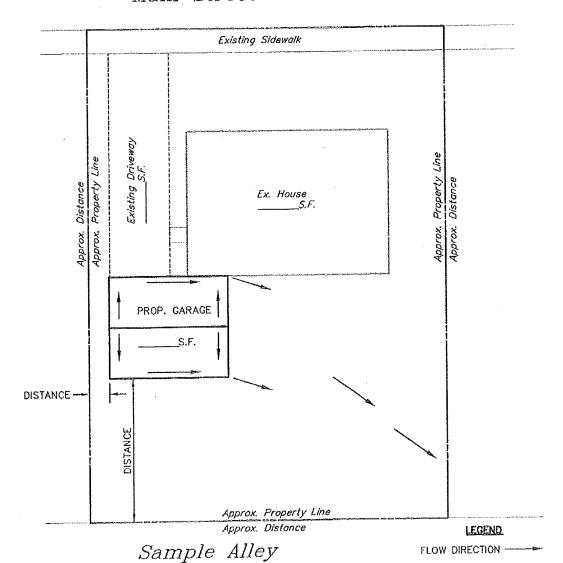
Dallastown Borough

Stormwater Management Small Project's Guide



NOTE: THIS PLAN CAN BE HAND DRAWN.

Main Street



DALLASTOWN BOROUGH



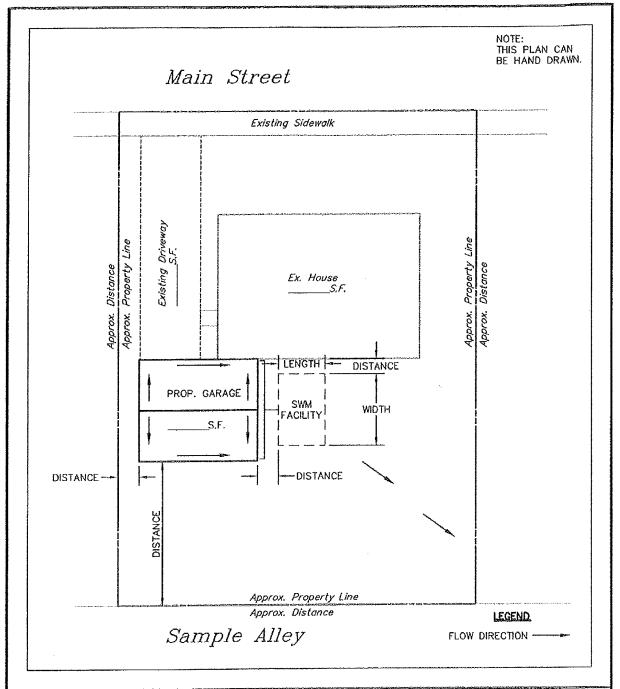
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38 N. DURE STREET YORK, PA . PHONE (717) 846-4805 . FAX (717)846-5815 . 50 WEST MODE ST. GETTISBURG, PA . PHONE (717) 337-0070 . FAX (717) 337-0782 . 315 W. JAMES ST., SATE 102 LANCASTER, PA . PHONE (717) 481-2991 . FAX (717) 481-8800 . WHAT.CSDAMDSON.COM

ATTACHMENT A1 SAMPLE SKETCH/ SITE PLAN

DALLASTOWN BOROUGH YORK COUNTY, PENNSYLVANIA

DRAWN BY CHECKED BY SCALE DATE DECEMBER 2012 DWG, NO. ORDINANCE EXHIBITS 1209.9.00.07



DALLASTOWN BOROUGH



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ATTACHMENT A2
SAMPLE SWM SITE PLAN

CHECKED BY

SCALE N.T.S.

DATE DEGEMBER 2012

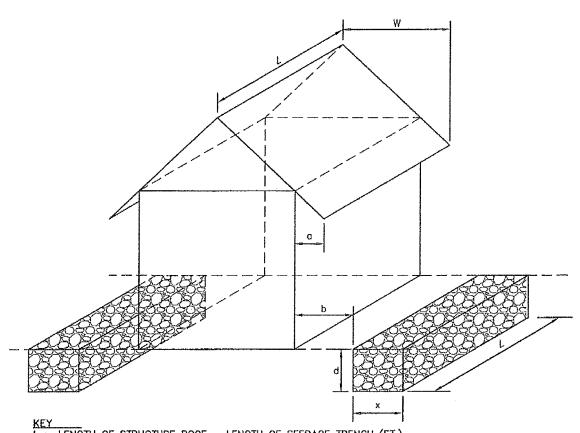
DWG. NO. ORDINANCE EXHIBITS

A FILE NO. 1209.9.00.07

APS

DRAWN BY

AMANJYZKKIBĄ, YTRUCO NROC HDUOROB RWOTZALIAD



W = WIDTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE TRENCH (FT.)
W = WIDTH OF ONE SIDE OF THE ROOF (FT)

d = EAVE OVERHANG (FT)
b = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT)

D = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT)

= a + 1 FT => PLACE EDGE OF TRENCH ONE FOOT PAST EAVES

x = WIDTH OF SEEPAGE TRENCH (FT) d = DEPTH OF SEEPAGE TRENCH (FT)

REQUIRED VOLUME OF TRENCH => L*W*2/12 = L*x*d*0.4 => X=0.28W (d=1.5')

RATIO: 3.6 TO 1

(IMPERVIOUS TO INFILTRATION)

TRENCH MUST BE PROVIDED ON EACH SIDE OF STRUCTURE.

- 2.) SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE.
 3.) TRENCH TO BE FILLED WITH CLEAN STONE (3/4" MIN. SIZE).
 4.) TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
 5.) TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.

DALLASTOWN BOROUGH



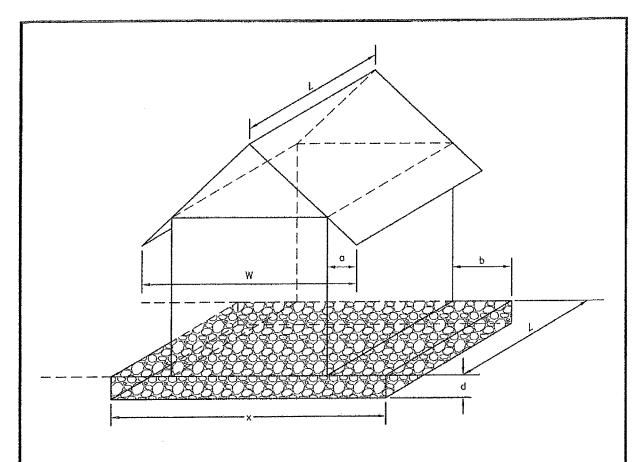
Excellence in Civil Engineering

38 H. DUKE STREET YORK, PA . PHONE (717) 846-4805 . FAX (717)846-5811 50 MEST MEDICE ST. GETTES MRG. PA. * PRIME (717) 640-4600 * FAX (717)-640-6501
50 MEST MEDICE ST. GETTES MRG. PA. * PRIME (71) 237-2621 * FAX (717) 237-6182
315 W. AMES ST., SATE 102 LUNCASTER PA. * PRIME (717) 481-2991 * FAX (717) 481-8690 WWW.CSDAVIDSON.COM

ATTACHMENT B1 STORMWATER MANAGEMENT SAMPLE STRUCTURES WITHOUT GUTTERS A

DALLASTOWN BOROUGH YORK COUNTY, PENNSYLVANIA

DRAWN BY APS CHECKED BY SCALE DECEMBER 2012 DWG. NO. ORDINANCE EXHIBITS FILE NO. 1029.9.00.07



L = LENGTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE BED (FT.)

W = WIDTH OF ENTIRE ROOF (FT)

a = EAVE OVERHANG (FT)

b = DISTANCE FROM STRUCTURE WALL TO EDGE OF SEEPAGE BED (FT)

a = a + 1 FT => PLACE EDGE OF BED ONE FOOT PAST EAVES

which of seepage bed (FT)

x = WIDTH OF SEEPAGE BED (FT)

x = W + 2 FT
d = DEPTH OF SEEPAGE BED (FT)
d = 6" TO 8" (AVERAGE)

1.) SIDE AND BOTTOM OF BED TO BE WRAPPED IN CLASS 1 GEOTEXTILE.
2.) BED TO BE FILLED WITH CLEAN STONE (3/4" MIN. SIZE).
3.) BED TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
4.) BED TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.

DALLASTOWN BOROUGH



Excellence in Civil Engineering

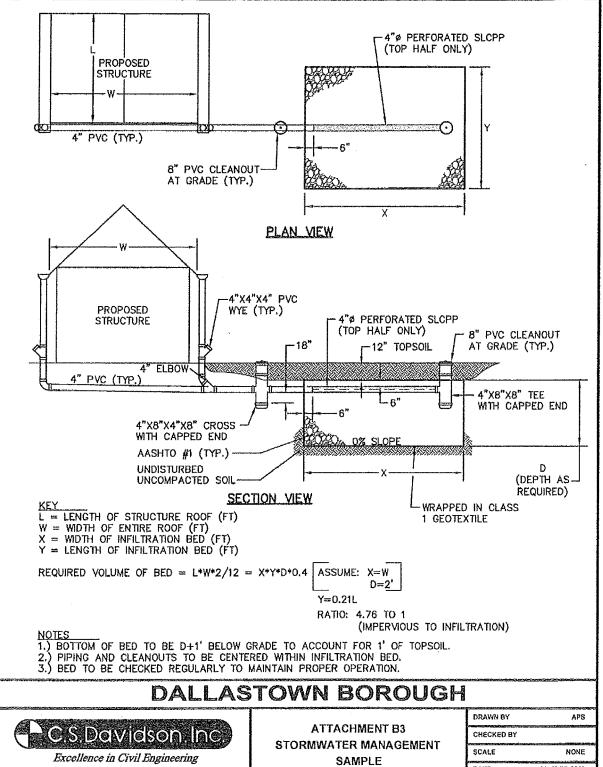
38 N. DURE STREET YORK, P.A. • PHONE (717) 846-4805 • FAX (717)846-5811
60 WEST MODILE ST. GETTYSBURG, P.A. • PHONE (717) 337-3021 • FAX (717) 337-0781
315 W. JUJES ST., SUITE 102 LINCASTER, P.A. • PHONE (717) 481-2921 • FAX (717) 481-8680 WWW.CSDAVIDSON.COM

ATTACHMENT B2 STORMWATER MANAGEMENT SAMPLE

STRUCTURES WITHOUT GUTTERS B

DALLASTOWN BOROUGH YORK COUNTY , PENNSYLVANIA FILE NO.

,	DRAWN BY	/ APS
	CHECKED	BY
	SCALE	N.T.S.
	DATE	DECEMBER 2012
	DWG. NO.	ORDINANCE EXHIBITS
	FILE NO.	1029,9,00.07

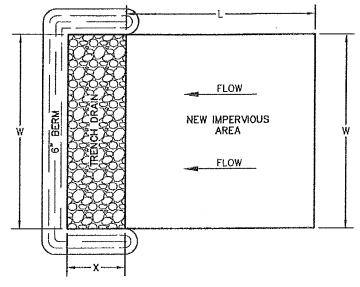


38 H, DURCE STREET YORK, PA · PHONE (717) 845-4805 · FAX (717)846-5811 50 NEST MODIE ST. GETTYSBURG, PA. PHONE (717) 337-3021 • FAX (717) 337-0782
315 W. JUJES ST., SUITE 102 LANCASTER, PA. • PHONE (717) 481-2991 • FAX (717) 481-8690 WWW.CSDAYIOSON.COM

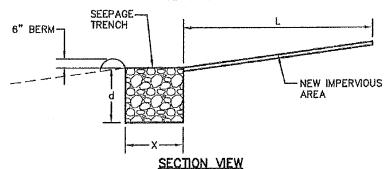
STRUCTURES WITH GUTTERS

DALLASTOWN BOROUGH YORK COUNTY, PENNSYLVANIA

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DATE	DECEMBER 2012
DWG. NO.	ORDINANCE EXHIBITS
FILE NO.	1209.9.00.07



PLAN VIEW



L = LENGTH OF NEW IMPERVIOUS SURFACE (FT) - MAY NOT EXCEED 75' W = WIDTH OF NEW IMPERVIOUS SURFACE = LENGTH OF SEEPAGE TRENCH (FT) X = WIDTH OF SEEPAGE TRENCH (FT) d = DEPTH OF SEEPAGE TRENCH (FT)

REQUIRED VOLUME OF TRENCH => W*L*2/12 = X*W*d*0.4 => X=0.28L (D=1.5')

- SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE.

- 2.) TRENCH TO BE FILLED WITH CLEAN STONE (3/4" MIN. SIZE).

 3.) TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.

 4.) TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.

DALLASTOWN BOROUGH



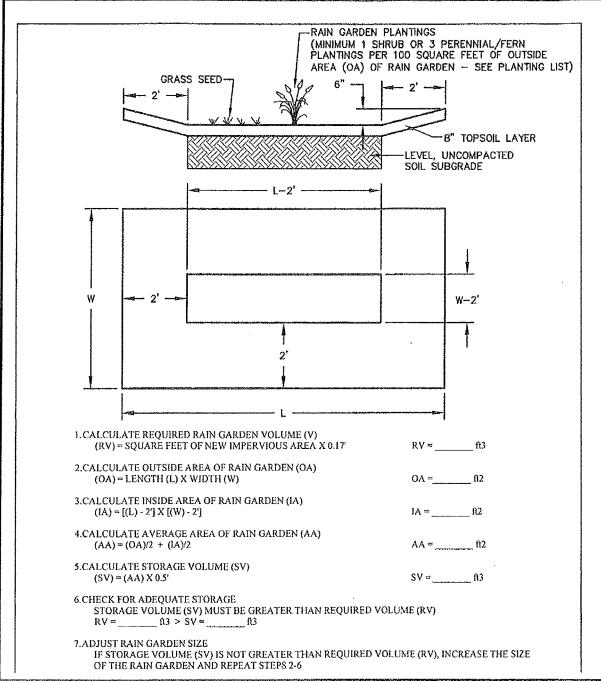
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ATTACHMENT B4 STORMWATER MANAGEMENT SAMPLE AT GRADE IMPERVIOUS

DALLASTOWN BOROUGH YORK COUNTY, PENNSYLVANIA

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DATE	DECEMBER 2012
DWG. NO.	ORDINANCE EXHIBITS
FILE NO.	1209.9.00.07



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38 N. DUNE STREET YORK, P.A. • PHONE (717) 846-4605 • FAX (717)846-5911
50 NEST MEDGLE ST. GETTSBURG, PA. • PHONE (717) 337-3021 • FAX (717) 337-0182
315 W. JAJES ST., SUITE 102 LANCASTER, PA. • PHONE (717) 481-2991 • FAX (717) 481-6690
WHYN, CSDAMDSON, COM.

ATTACHMENT B5
RAIN GARDEN

DALLASTOWN BOROUGH YORK COUNTY , PENNSYLVANIA

DRAWN BY MPA
CHECKEO BY
SCALE N.T.S.
DATE DECEMBER 2012
DWG. NO. Rain Garden Datail.dwg
FILE NO. 1209.9.00.07

Rain Garden Native Planting List

Perennials and Ferns:

Blue false indigo (Baptisia australis) Blue flag iris (Iris versicolor) Blue star (Amsonia tabernaemontana) Blue vervain (Verbena hastata) Boltonia (Boltonia asteroides) Boneset (Eupatorium perfoliatum) Bottlebrush grass (Hystrix patula) Broomsedge (Andropogon virginicus) Cardinal flower (Lobelia cardinalis) Cinnamon fem (Osmunda cinnamomea) Culvers root (Veronicastrum virginicum) Golden ragwort (Senecio aureus) Goldenrod (Solidago patula, S. rugosa) Great blue lobelia (Lobelia siphlitica) Green bullrush (Scirpus atrovirens) Horsetail (Equisetum species) Marsh marigold (Caltha palustris) Mistflower (Eupatorium colestinum) Monkey flower (Mimulus ringens) New England aster (Aster novae-anglia) New York aster (Aster novi-belgii) Obedient plant (Physotegia virginiana) Royal fern (Osmunda regalis) Seedbox (Ludwigia alternifolia) Sensitive fern (Onoclea sensibilis) Sneezeweed (Helenium autumnale) Soft rush (Juneus effusus) Swamp milkweed (Asclepias incarnata) Swamp rose mallow (Hibiscus moscheutos) Swamp sunflower (Helianthus angustifolius) Switchgrass (Panicum virgatum) Threadleaf coreopsis (Coreopsis verticillata) Tussock sedge (Carex stricta) White turtlehead (Chelone glabra) Woolgrass (Scirpus cyperinus)

Shrubs:

American beautyberry (Calicarpa americana) Arrowwood (Viburnum dentatum) Black chokeberry (Aronia melanocarpa) Broad-leaved meadowsweet (Spirea latifolia) Buttonbush (Cephalanthus occidentalis) Elderberry (Sambucus canadensis) Inkberry (Ilex glabra) Narrow-leaved meadowsweet (Spirea alba) Ninebark (Physocarpus opulifolius) Possumhaw (Viburnum nudum) Red-osier dogwood (Cornus sericea) St. Johnswort (Hypericum densiflorum) Silky dogwood (Cornus amomum) Smooth alder (Alnus serrulata) Spicebush (Lindera benzoin) Swamp azalea (Rhododendron viscosum) Swamp rose (Rosa palustris) Sweet pepperbush (Clethra alnifolia) Wild raisin (Viburnum cassinoides) Winterberry (Ilex verticillata) Virginia sweetspire (Itea virginica)

SWM	Permit #:	
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DALLASTOWN BOROUGH STORMWATER MANAGEMENT PERMIT APPLICATION

If you, as a property owner, are planning to construct any type of structure or improvement to your property (patio, driveway, etc.) that will impact the stormwater runoff leaving your property, then you must comply with Municipal Stormwater Management Ordinance No. 575-12. Completion of this form will allow the staff to guide you through the associated regulations.

Step 1: Complete the Project Information

Property Owner:		
Property Address:		- Address - Addr
Daytime Phone Number:		[(preferred)
Email Address:		[(preferred)
etc. Attach any manufacturer's sheets	- ,	
Have any other exterior improvement If so please list the projects and perm		since January 1, 2013 (Effective Date of SWM Ordinance)?
Step 2: Provide Sketch Plan of Pro	<u>perty</u>	
	tailed drainage information for pro	improvements. Please indicate which direction the posed improvements (roof breaks, gutters, downspout uide).
Sketch Plan Provided		
Step 3: Summarize Proposed Impe	ervious Area	
 Removal of existing imp Changing the ground sur ft² (Municipal Engineer Farming Activities (not resubmission. Timber Activities - If in the submission in the submission. 	to be contacted by Borough) new buildings or impervious) – If in compliance with Chapter 102, exer	converting a meadow area to yard)
Applicant Name (Printed)	Signature	Date

SWM Permit #:		

Small Projects Guide - Operation & Maintenance Plan

Construction:

- 1. Install erosion and sedimentation control facilities.
- 2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
- 3. Mark the locations of the SWM facility (ies).
- 4. Excavate the SWM Facility to the required depth. Contact municipality for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Municipal Engineer. All excavated materials shall be removed from the site or stabilized.

For Stone Infiltration Structures

- 5. Line excavation with Geotextile.
- 6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
- 7. If required: Close geotextile material over stone bedding.
- 8. If required: Place topsoil over trench.
- 9. Stabilize and seed all disturbed areas.

For Rain Gardens

- 5. Place topsoil over excavated area.
- 6. Install plantings as shown on the plan.
- 7. Stabilize and seed all disturbed areas.

Maintenance:

- 1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event. If water is encountered, the facility may need to be modified. Notification of the municipality is required if facility is not functioning before any modifications are made.
- 2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance for the SWM Facilities. If I fail to adhere to any of these tasks, the Borough may perform the services required and charge the appropriate fees. Nonpayment of the fees may result in a lien against my property.

Applicant Name (Printed)	Signature	Date

DALLASTOWN BOROUGH York County, Pennsylvania

RESOLUTION 2013-1

BE IT RESOLVED by the Borough of Dallastown, York County, Pennsylvania, and it is hereby resolved by the authority of the same, that the fees to be collected for Stormwater Management Activities pursuant to Dallastown Borough Ordinance 575-12 are, pursuant to further authorization set forth in and ordinance for amending said rate, hereby amended to be and shall hereafter be as follows:

Square Footage of New Accumulated Impervious Area	Fee
One to two hundred and fifty (1 – 250) square feet	One dollar and fifty cents per square foot (\$1.50 per square foot)
Two hundred and fifty-one to five hundred (251 – 500) square feet	\$375 plus \$3.00 per sq. ft. over 251 sq. ft. up to 500 sq. ft.
Five hundred and one to one-thousand (501 – 1000) square feet	Fifty dollar plan review and inspection fee (\$50.00)

The fees for Stormwater Management Activities regulated under Ordinance 575-12 set by this Resolution shall be and become effective immediately upon adoption of the Resolution.

ORDAINED AND RESOLVED, this 11th day of February, 2013.

ATTEST:

Susan Wertz

Assistant Borough Secretary

COUNCIL OF THE BOROUGH OF

DALLASTOWN

Ronald E. Smith.

President of Borough Council