Earl Township Road Occupancy Permit

***Permit* Number**

_____
Date Submitted

Applicant Name | Applicant Signature | Telephone No.

Company Name

Street address | Town, Zip

Work Location (If different than above)

Description of work (attach sketch if necessary)

Important

The terms and conditions embodied in this permit require the permittee to complete this work by the date specified in the permit. If the work started cannot be completed by the specified date, permittee shall request a time extension prior to the expiration of the original permit, at that time the Township may grant or deny the extension. The Board of Supervisors reserves the right to void and nullify this permit at any time. All work shall comply with township regulation or as specifically directed by the Township. It is the responsibility of the permittee to contact the Township for grade inspection and final inspection. It is the responsibility of the permittee to contact PA 1 Call at (1-800-242-1776) prior to any excavation. It is the responsibility of the permittee to provide any traffic control measures necessary to maintain safety to the public. Road cuts and or attachment need to be marked for review.

Township approval - Signature | Issue Date

Permit Expires Date | Total Fees

Earl Township

517 North Railroad Avenue
New Holland, PA 17557
(717) 354-0773 - Fax (717) 355-0599

NOTICE TO ALL PERMIT APPLICANTS...

ANY PERMIT APPROVAL ISSUED BY THE ZONING OFFICER IS BASED UPON INFORMATION PROVIDED BY THE APPLICANT. THE TOWNSHIP HAS NOT PERFORMED A TITLE SEARCH AND HAS NOT DETERMINED WHETHER THE PROPOSED CONSTRUCTION ENCROACHES INTO ANY EASEMENTS OF RECORD.

THE APPLICANT IS ASSUMING ALL RISKS THAT THE HOLDER OF AN EASEMENT, IN EXERCISING RIGHTS UNDER ITS EASEMENT, MAY DAMAGE OR REMOVE THE IMPROVEMENTS AUTHORIZED BY THIS PERMIT. IF THE HOLDER OF ANY EASEMENT, INCLUDING, BUT NOT LIMITED TO THE TOWNSHIP, EXERCISES RIGHTS UNDER SUCH EASEMENT AND DAMAGES OR DESTROYS IMPROVEMENTS AUTHORIZED BY THIS PERMIT, THE TOWNSHIP SHALL HAVE NO LIABILITY.

ANY CHANGES TO ANY EXISTING STORM WATER MANAGEMENT FACILITIES MUST COMPLY WITH ALL APPLICABLE TOWNSHIP ORDINANCES REGULATING EARTH DISTURBANCE AND STORM WATER MANAGEMENT, AND IT IS THE APPLICANT'S RESPONSIBILITY TO IDENTIFY ALL STORM WATER MANAGEMENT FACILITIES AND TO PRESERVE AND MAINTAIN SUCH FACILITIES UNLESS THE APPLICANT OBTAINS THE NECESSARY APPROVALS TO ALTER STORM WATER MANAGEMENT FACILITIES.

EARL TOWNSHIP ADOPTED NEW STORM WATER ORDINANCE

ON MAY 5, 2014

(STATE MANDATED REGULATION)

THIS NEW MANDATE REQUIRES THAT ALL NEW IMPERVIOUS AREAS CREATED MUST BE DOCUMENTED AND THE RESULTING STORM WATER RUNOFF MANAGED PER REGULATIONS. THE FOLLOWING LEVELS OF STORM WATER MANAGEMENT HAVE BEEN CREATED TO ASSIST OUR RESIDENTS WITH THE REGULATIONS:

NEW IMPERVIOUS OF UP TO 1, 000 SQUARE FEET MAY UTILIZE AN EXEMPTION (ONE TIME EXEMPTION ACCUMULATIVE TO THE 1,000 SQUARE FEET) AND THE EXEMPTON APPLICATION SHALL BE EXECUTED AND SUBMITTED FOR APPROVAL BY THE TOWNSHIP.

NEW IMPERVIOUS OF 1, 001 TO 4,999 SQUARE FEET MAY UTILIZE THE SMALL PROJECT APPLICATION FOR SMALL PROJECT STORM WATER MANAGEMENT TO BE SUBMITTED AND APPROVED BY THE TOWNSHIP.

NEW IMPERVIOUS OF 5, 000 SQUARE FEET AND OVER SHALL PLAN FULL STORM WATER MANAGEMENT PER THE CURRENT EARL TOWNHSIP STORM WATER ORDINANCE AND SUBMIT FOR REVIEW AND APPROVAL BY THE TOWNSHIP.

APPENDIX A-1

EXEMPTION APPLICATION

Date Received _____ File Number_____ Property Act # _____
Submitted Fees $_____ Approval of Application Date _____

Project Street Address: _____

Owner's Name: _____

Signature: _____

Phone # / Fax # / E-mail: _____

Person/Firm to be completing work: _____

Phone # / Fax # / E-mail: _____

Proposed Activity:

Are you removing existing impervious as part of this project?

[ ] No
[ ] Yes, Total area of existing Impervious to be removed _____ sq. ft.

[ ] Removal of ground cover, grading, filling, or excavation of an area (1,000 square feet or less)

- Total area of land disturbance: _____ sq. ft.

Type of Regulated Activity (check all that apply): [ ] Removal of ground cover,
[ ] Grading, [ ] Filling, [ ] Excavation, [ ] Other earth disturbance activity (please describe)

_____

[ ] Addition of Impervious Surface (1,000 square feet or less)

- Total new impervious surface proposed _____ sq. ft.

Type of new impervious surface: [ ] driveway, [ ] shed, [ ] garage, [ ] deck, [ ] walkway,
[ ] other (please describe) _____

_____

Check all items below that will be impacted by the project:
[ ] Floodplain
[ ] Wetlands
[ ] Slopes greater than 15%
[ ] Known bedrock within 6 feet of the ground surface
[ ] Riparian forest buffer
[ ] Natural water flow paths (creeks, streams, ponds, swales, etc.)
[ ] Existing known stormwater problem areas
[ ] Downstream property owners

Sketch
Provide a sketch of the proposed additional impervious area or land disturbance.

APPENDIX A-2

SMALL PROJECT APPLICATION

File Number_____ Date Received _____

Submitted Fees $_____ Approval of Application Date _____

Project Street Address:_____

Project Name: _____

Owner's Name and Address: _____

Phone # / Fax # / E-mail:_____

Please list the date of any previous Minor Land Disturbance or Small Project Applications for the subject property:

_____

Proposed Activity:

[ ] Removal of ground cover, grading, filling or excavation of an area less than 5,000 square feet

Total area of land disturbance: _____ sq. ft.

Type of Regulated Activity (check all that apply):

[ ] Removal of ground cover
[ ] Grading
[ ] Filling
[ ] Excavation
[ ] Other earth disturbance activity (please describe)

_____

[ ] Addition of Impervious Surface (more than 1,000 SF but less than 5,000 SF)

Type of new impervious surface: [ ] driveway, [ ] shed, [ ] garage, [ ] deck, [ ] walkway, [ ] other (describe) _____

Total new impervious surface proposed for construction: _____ sq. ft.

Are you removing existing impervious as part of this project?

[ ] No
[ ] Yes – Total area of existing Impervious to be removed _____ sq. ft.

E

Check all items below that will be impacted by the project:

___Mature trees
___Sinkholes
___Water wells
___Septic drainfields
___Alternate septic drainfields
___Creeks, streams, wetlands, or ponds
___Existing stormwater management facility (basin, swale, etc.)
___Easements

Total runoff volume to be permanently removed/managed on site from attached calculation worksheet:_____ gallons or _____ cubic feet

Proposed Stormwater Management Controls (Best Management Practice):

___ Rain Garden
___ Infiltration Trench
___ Cistern
___ Rain Barrel
___ Other (describe) _____

Sketch

Provide a sketch of the proposed additional impervious area or land disturbance. Include the following on the sketch:

- Property boundary
- Location and approximate footprint of existing structures (buildings, patios, driveways, etc.)
- Approximate location of any of the following features which will be impacted by the project:
  - Mature trees
  - Sinkholes
  - Water wells
  - Septic drainfields
  - Alternate septic drainfields
  - Creeks, streams, wetlands, ponds
  - Existing stormwater management facilities (basins, swales, etc.)
- Location and approximate footprint of proposed impervious area or land disturbance.
- Approximate footprint and location of all structures on adjacent properties if located within 50 feet of the proposed impervious area or land disturbance
- Location and description of proposed stormwater management facilities (e.g., rain gardens, swales, rain barrels, etc.)
- Direction of proposed stormwater discharge (e.g., with arrows)
- Scale and North arrow

Person/Firm to be completing work: _____
Phone # / Fax # / E-mail: _____

Name of Person Submitting this Application: _____

Signature: _____

Date: _____

6

Small Project Application Calculation Worksheet

The applicant may use the following to calculate the amount of runoff which must be managed in accordance with § 17-302B of this chapter.

Project Name: _____

Owner Name: _____

Proposed Additional Impervious Area: _____ square feet

Impervious Area Calculations

Calculate the amount of runoff to be permanently removed (managed on site through reuse, evaporation, transpiration or infiltration):

Additional impervious area ÷ 12 = Permanently Removed Runoff Volume (PRV)

_____ square feet of additional impervious ÷ 12 = _____cubic feet PRV
_____ cubic feet x 7.48 gallons per cubic feet = _____ gallons PRV

EXAMPLE

Small Project Application Calculation Worksheet

Landowner Name: Jane Doe (20 x 45' garage)

Owner Name: Jane Doe

Proposed Additional Impervious Area: 900 square feet

Impervious Area Calculations

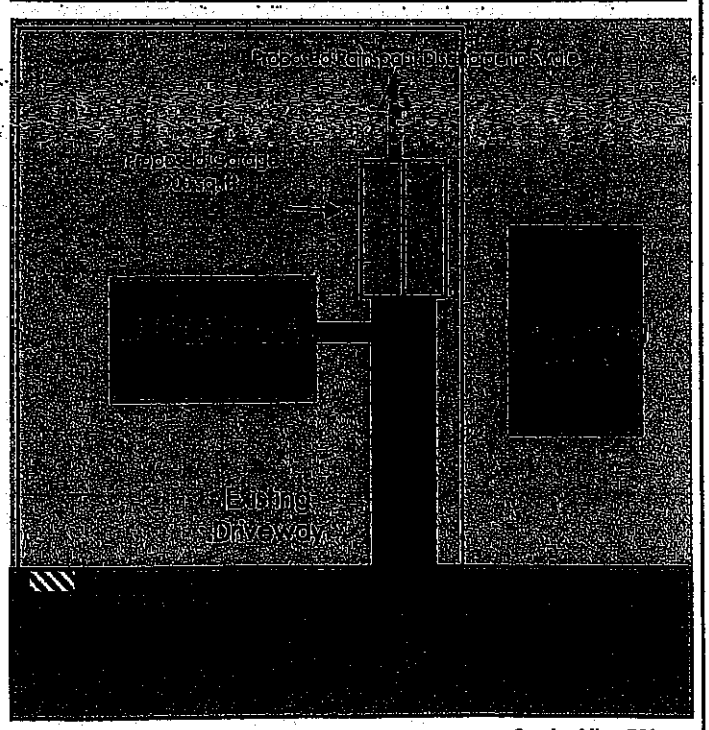
Calculate the amount of runoff to be permanently removed (managed on site through reuse, evaporation, transpiration or infiltration) using the following formula:

Additional impervious area ÷ 12 = Permanently Removed Runoff Volume (PRV)

900 square feet of additional impervious ÷ 12 = 75 cubic feet PRV

75 cubic feet x 7.48 gallons per cubic feet = 561 gallons PRV

EXAMPLE SKETCH



Scale 1" = 50'

Small Projects Guide-Sample 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

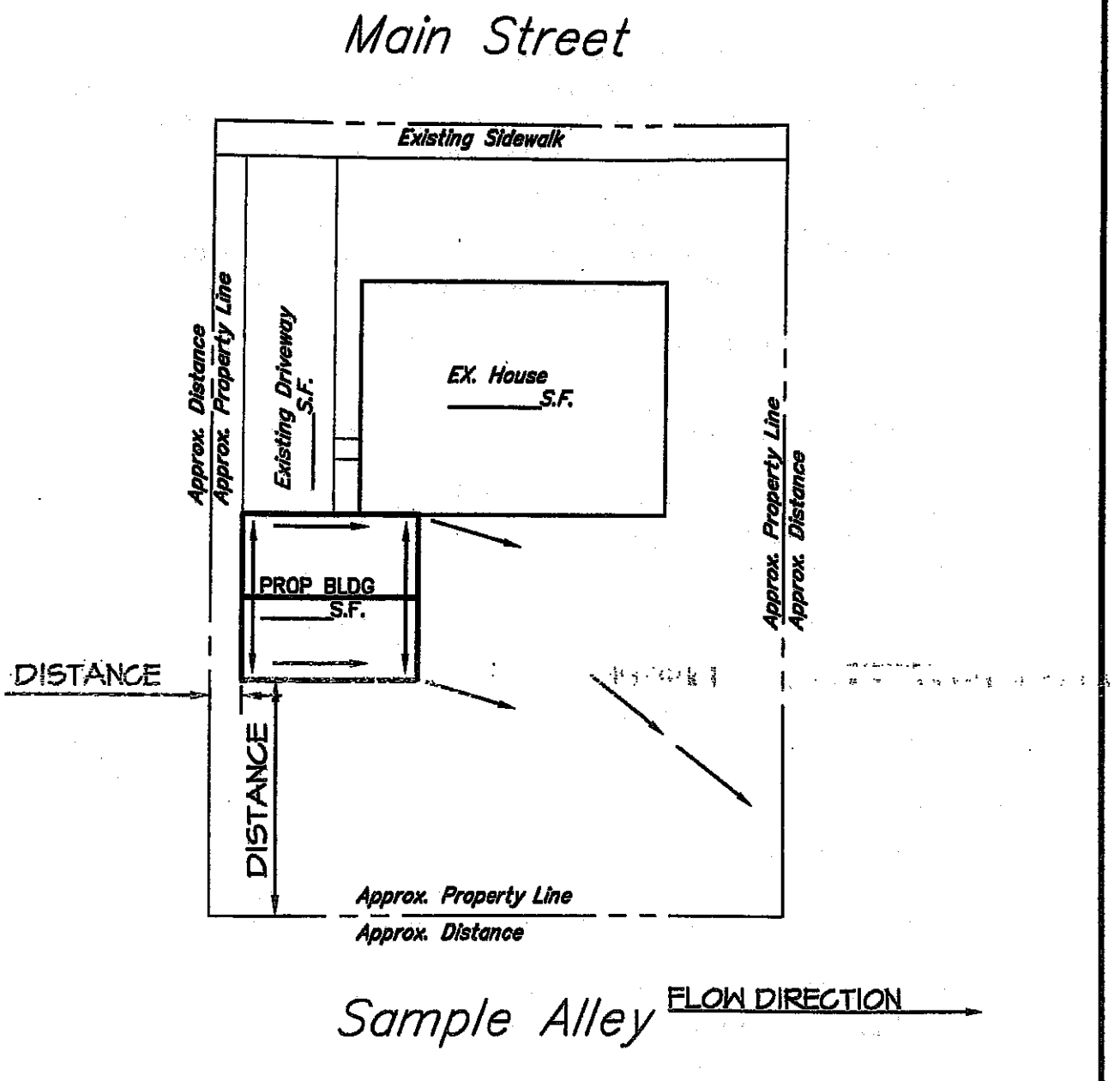
10. Place topsoil over excavated area.
11. Install plantings as shown on the plan.
12. Stabilize and seed all disturbed areas.

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 of 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.
3. Homeowner to submit an inspection report to the Township one year after construction and every 3rd year there afterwards.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction and operation and maintenance for the SWM Facilities. If I fail to adhere to any of these tasks, the Township 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



EARL TOWNSHIP

ATTACHMENT 1 SAMPLE SKETCH/SITE PLAN

JOB NUMBER:

143 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7211 FAX (717) 626-7040
www.elagroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.

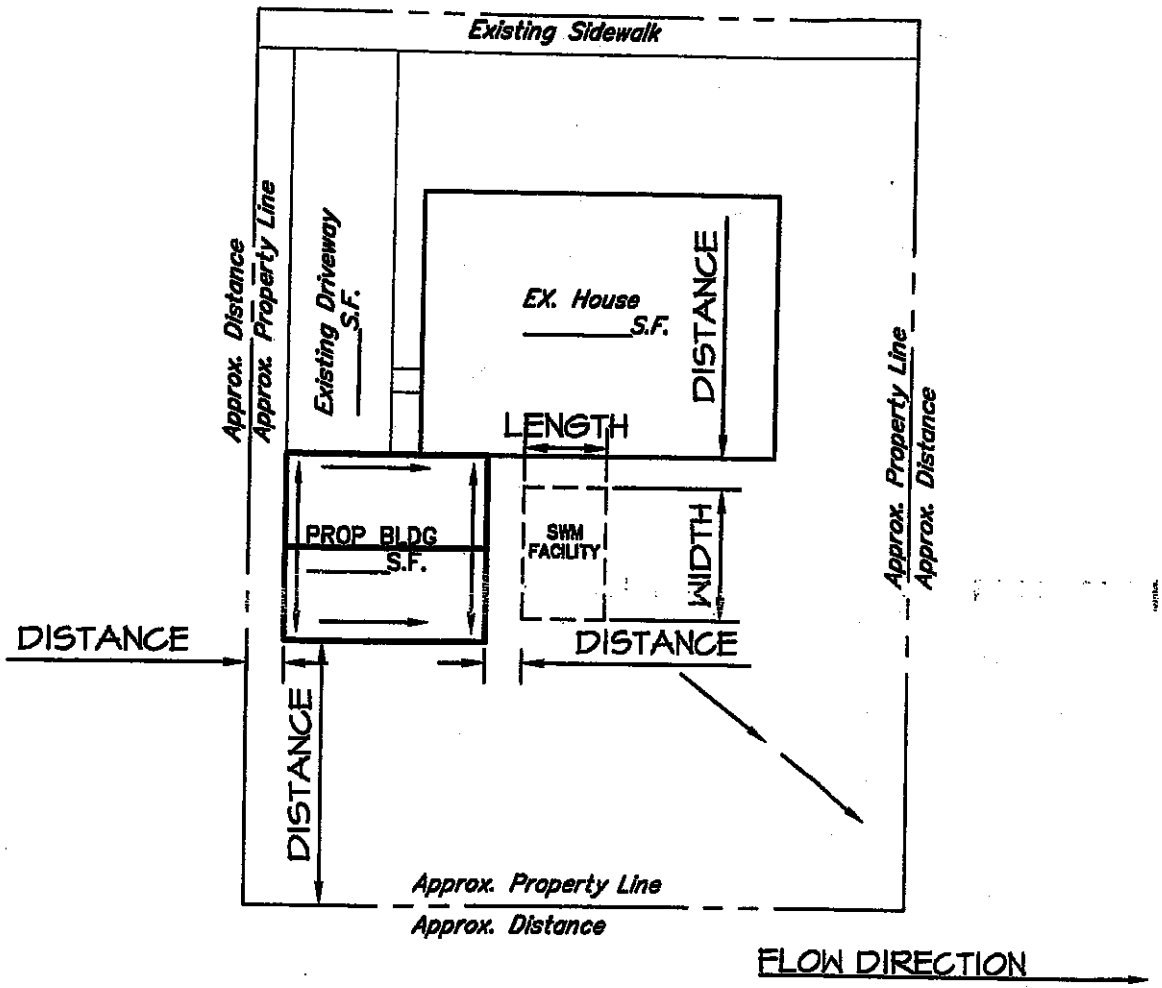
DRAWN BY:

DATE: 2014

DRAWING: N/A

SKETCH: 1 OF 1

Main Street



Sample Alley

EARL TOWNSHIP

ATTACHMENT 2 SAMPLE SWM SITE PLAN

JOB NUMBER:

143 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7211 FAX (717) 626-7040
www.alagroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

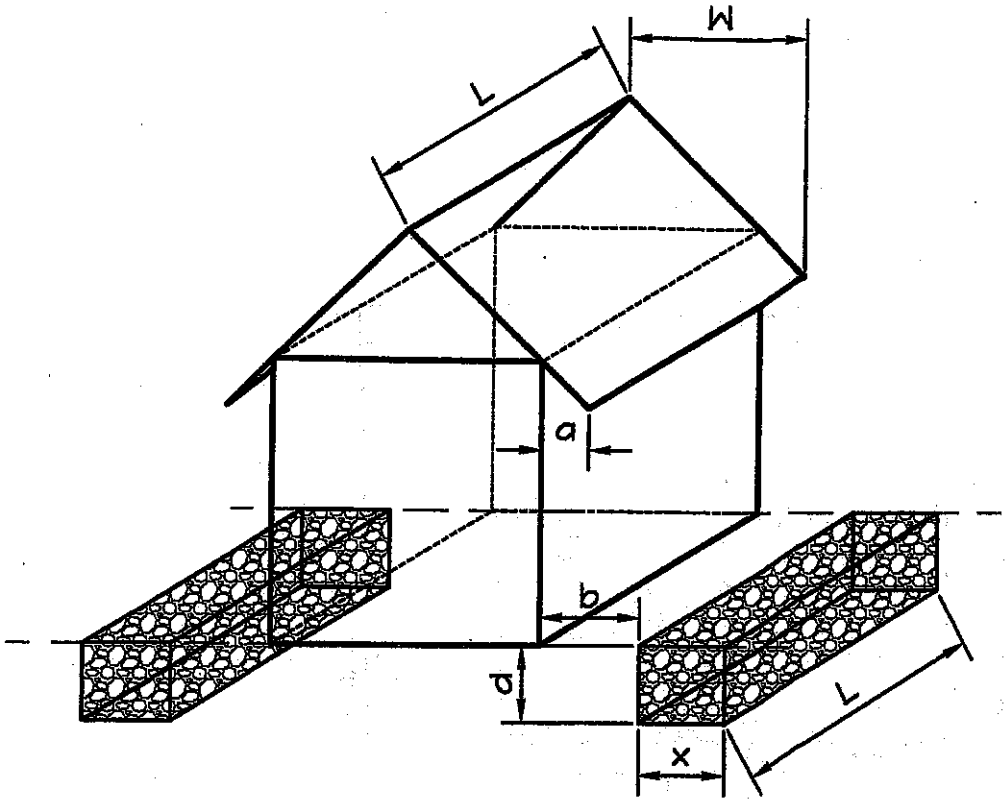
SCALE: N.T.S.

DRAWN BY:

DATE: 2014

DRAWING: N/A

SKETCH: 1 OF 1



KEY

L = LENGTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE TRENCH (FT)
W = WIDTH OF ONE SIDE OF THE ROOF (FT)
a = EAVE/OVERHANG (FT)
b = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT)
= a + 1 FT => PLACE FROM 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*1/12 = L*X*d*0.4 => X=0.14W for d=1.5'

Ratio: 3.6 to 1
(IMPERVIOUS TO INFILTRATION)

NOTES

1.) 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

EARL TOWNSHIP

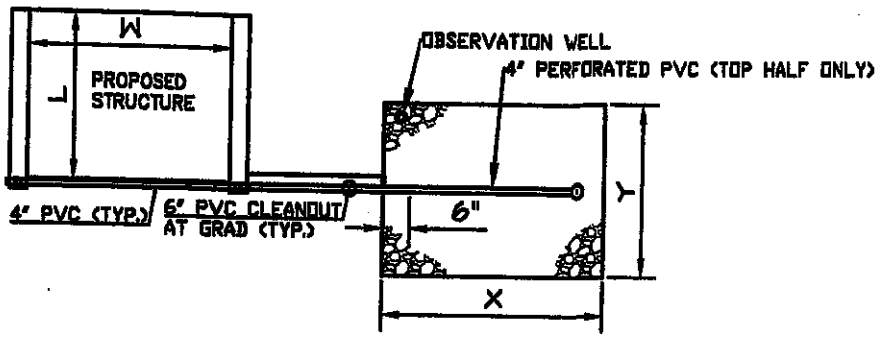
ATTACHMENT 3 STORMWATER MANAGEMENT STRUCTURES WITHOUT GUTTERS

JOB NUMBER: -

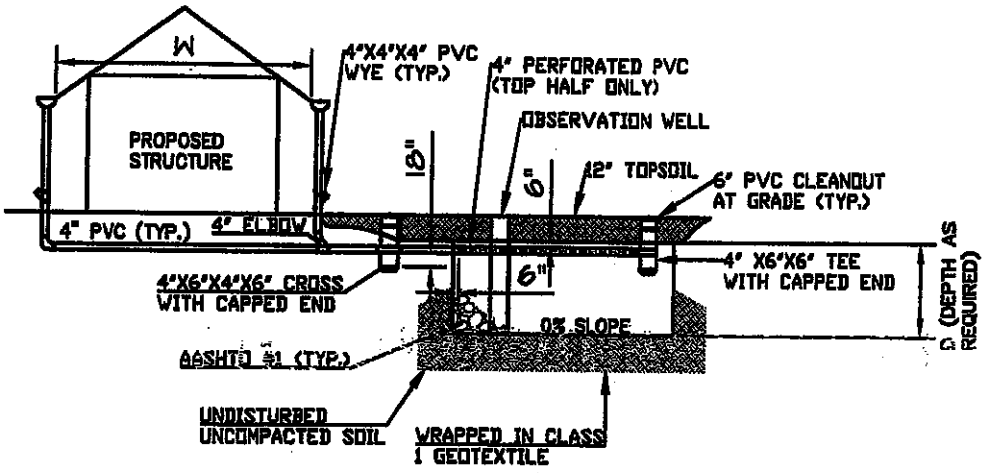
143 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7211 FAX (717) 626-7040
www.lelagroup.com
LEMAX inc.
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.
DRAWN BY:
DATE: 2014

DRAWING: N/A
SKETCH: 1 OF 1



PLAN VIEW



SECTION VIEW

KEY
L = LENGTH OF STRUCTURE ROOF (FT)
W = WIDTH OF ENTIRE ROOF (FT)
X = WIDTH OF INFILTRATION BED (FT)
Y = LENGTH OF INFILTRATION BED (FT)

REQUIRED VOLUME OF BED = L*W*1/12 = X*Y*D*0.4 [ASSUME X=W D=2']
Y=0.11L
RATIO 4.76 TO 1
(IMPERVIOUS TO INFILTRATION)

NOTES
1.) BOTTOM OF BED TO BE D+1' BELOW GRADE TO ACCOUNT FOR 1' OF TOPSOIL.
2.) PIPING AND CLEANOUTS TO BE CENTERED WITHIN INFILTRATION BED.
3.) BED TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.
4.) SEE SHEET 2 OF 2 FOR ADDITIONAL DETAILS

EARL TOWNSHIP

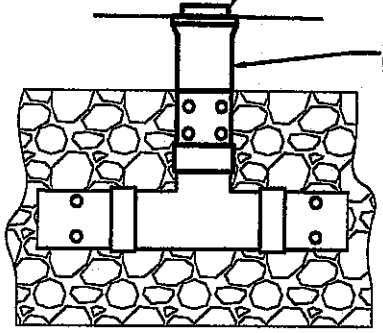
ATTACHMENT 4 STORMWATER MANAGEMENT SAMPLE STRUCTURE WITH GUTTERS

JOB NUMBER: -

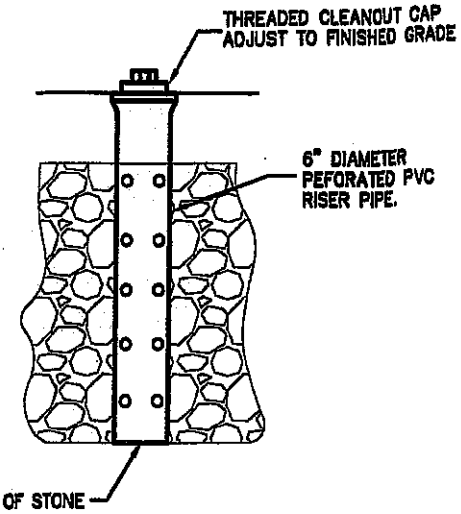
743 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7211 FAX (717) 626-7040
www.alagroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.
DRAWN BY:
DATE: 2014

DRAWING: N/A
SKETCH: 1 OF 2

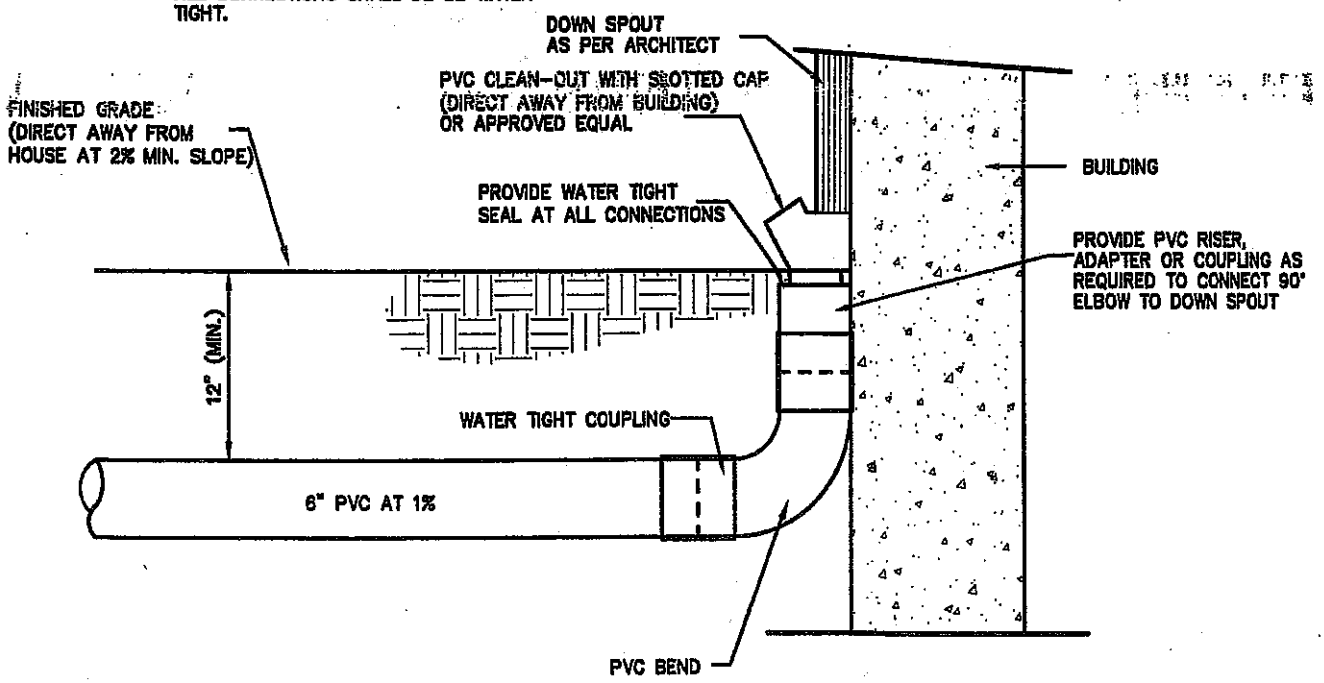


CLEAN OUT



OBSERVATION WELL

NOTE:
CONTRACTOR SHALL PROVIDE ALL FITTINGS, ADAPTERS, COUPLINGS AND OTHER APPURTENANCES AS REQUIRED TO CONNECT STORM CONVEYANCE SYSTEM. ALL CONNECTIONS SHALL BE BE WATER TIGHT.



CONNECTION TO DOWN SPOUT

EARL TOWNSHIP

ATTACHMENT 4-1DOWNSPOUT/CLEAN OUT/OBSERVATION WELL DETAILS

JOB NUMBER: -

143 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7271 FAX (717) 626-7040
www.slogroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.	DRAWING: N/A
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DATE: 2014	

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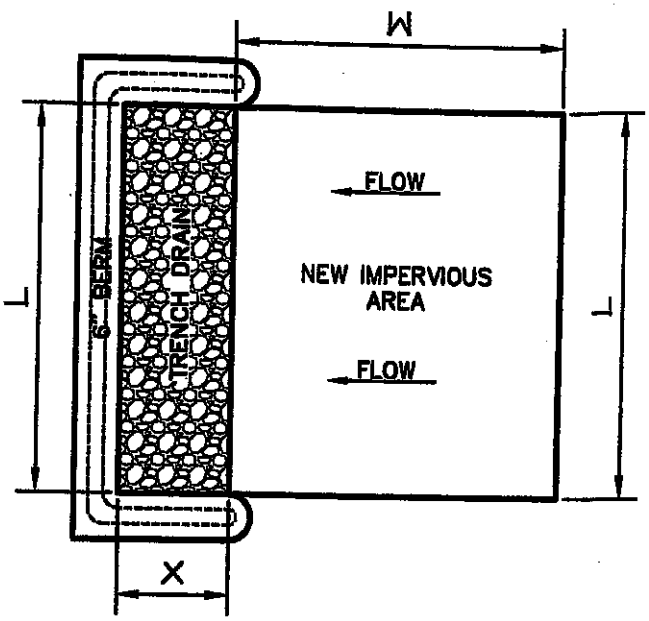
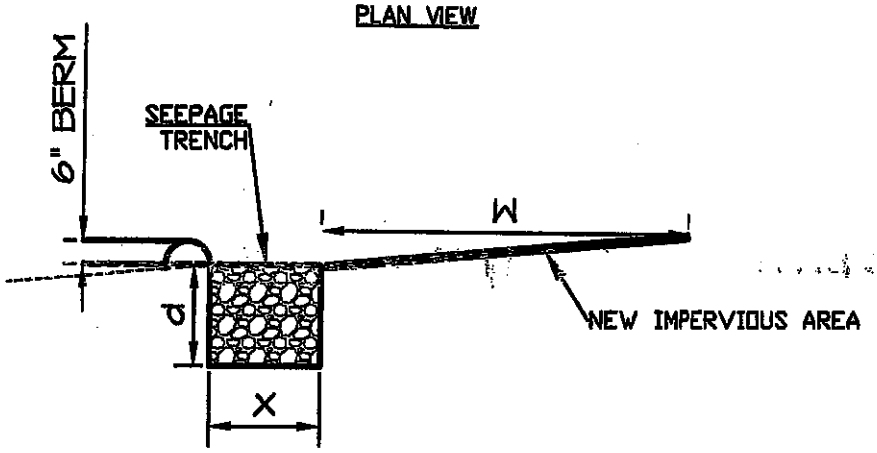


PLAN VIEW



SECTION VIEW

KEY

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

REQUIRED VOLUME OF TRENCH => L*W*1/12=X*L*d*0.4 => X=0.14W FOR d=1.5'

NOTES

1.) 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.

EARL TOWNSHIP

ATTACHMENT 5 STORMWATER MANAGEMENT AT GRADE IMPERVIOUS

JOB NUMBER:

143 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-1211 FAX (717) 626-1040
www.slagroup.com
inc.
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE:	N.T.S.
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DATE:	2014

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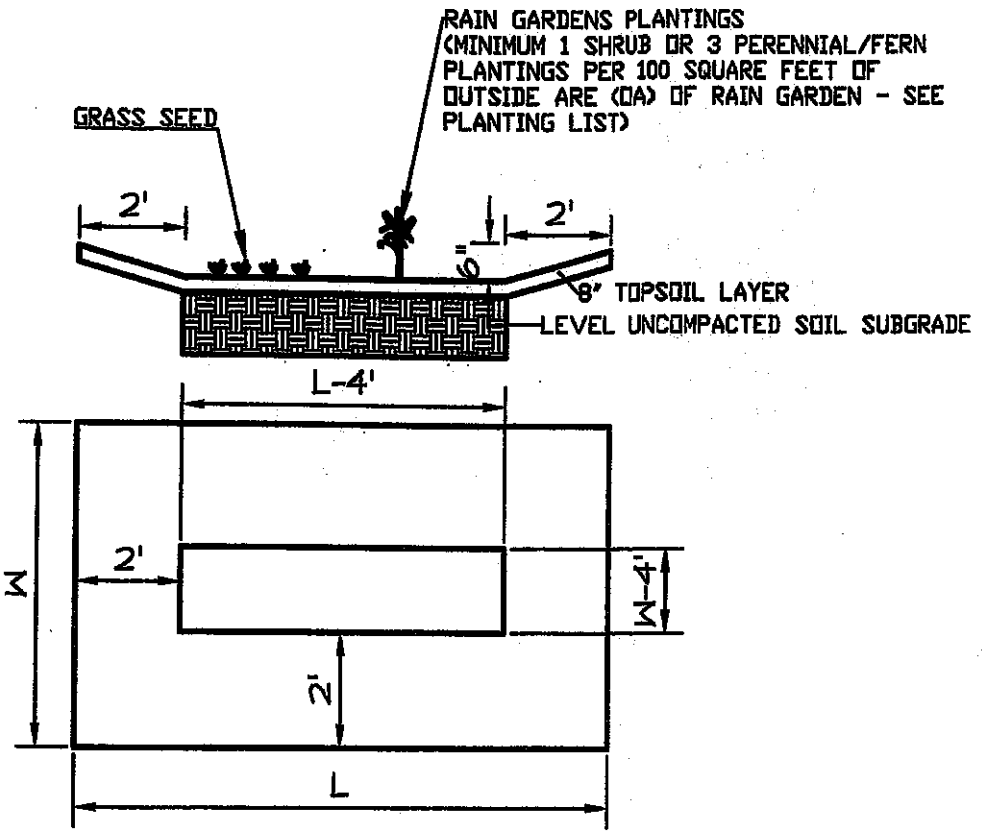
DRAWING: N/A

SKETCH: 1 OF 1



1.) CALCULATE REQUIRED RAIN GARDEN VOLUME (V)
(RV) = SQUARE FEET OF NEW IMPERVIOUS AREA X (0.085') RV=____FT3

2.) CALCULATE OUTSIDE AREA OF RAIN GARDEN (OA)
(OA) = LENGTH (L) X WIDTH (W) OA=____FT2

3.) CALCULATE INSIDE AREA OF RAIN GARDEN (IA)
(IA) = [(L)-4'] X [(W)-4'] IA=____FT2

4.) CALCULATE AVERAGE AREA OF RAIN GARDEN (AA)
(AA) = (OA)/2 + (IA)/2 AA=____FT2

5.) CALCULATE STORAGE VOLUME (SV)
(SV) = (AA) X 0.5' SV=____FT3

6.) CHECK FOR ADEQUATE STORAGE
STORAGE VOLUME (SV) MUST BE GREATER THAN REQUIRED VOLUME (RV)
RV= ____FT3 > SV=____FT3

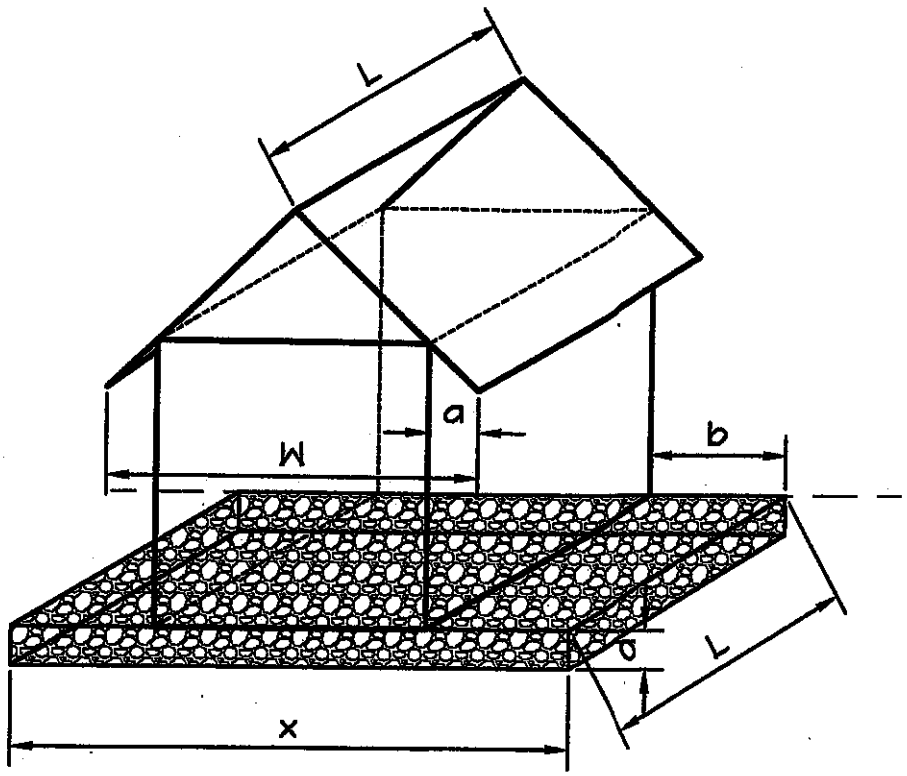
7.) ADJUST RAIN GARDEN SIZE
IF STORAGE VOLUME (SV) IS NOT GREATER THAN REQUIRED VOLUME (RV), INCREASE THE SIZE OF THE RAIN GARDEN AND REPEAT STEPS 2-6.

EARL TOWNSHIP
ATTACHMENT 6 RAIN GARDEN

JOB NUMBER:

743 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-1211 FAX (717) 626-1040
www.elagroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.	DRAWING: N/A
DRAWN BY:	SKETCH: 1 OF 1
DATE: 2014	



KEY

L = LENGTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE TRENCH (FT.)
W = WIDTH OF ONE SIDE OF THE ROOF (FT)
a = EAVE/OVERHANG (FT)
b = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT)
= a + 1 FT => PLACE FROM EDGE OF TRENCH ONE FOOT PAST EAVES
x = WIDTH OF SEEPAGE TRENCH (FT)
x = W + 2FT
d = DEPTH OF SEEPAGE TRENCH (FT)
D = 6" TO 8" (AVERAGE)

NOTES

1.) 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

EARL TOWNSHIP

ATTACHMENT 7 STORMWATER MANAGEMENT STRUCTURES WITHOUT GUTTERS

JOB NUMBER:

743 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7271 FAX (717) 626-7040
www.slagroup.com
ENGINEERS & LANDSCAPE ARCHITECTS

SCALE: N.T.S.
DRAWN BY:
DATE: 2014

DRAWING: N/A
SKETCH: 1 OF 1

Rain Garden Native Planting List

Perennials and Ferns

Blue false indigo (Baptista Australis)
Blue flag iris (Iris Versicolor)
Blue star (Amsonia tabernaemontana)
Blue vervain (Verbena hastata)
Boltonia (Boltonia asteroids)
Boneset (Eupatorium perfoliatum)
Bottlebrush grass (Hystrix patula)
Broomsedge (Andropogon virginicus)
Cardinal flower (Lobelia cardinalis)
Cinnamon fern (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 (Juncus 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 canadansis)
Inkberry (Ilex glabra)
Narrow-leaved meadowsweet (Spirea alba)
Ninebark (Physocarpus opulifolius)
Possumhaw (Viburnum nudum)
Red-osier dogwood (Cornus sericea)
St. Johnswort (Hypericum densiflorium)
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)