

East Goshen Township STORMWATER MANAGEMENT PLAN SIMPLIFIED APPROACH APPLICATION PACKAGE

The following are the required elements of a Simplified Approach Stormwater Management Plan application packet:

- Stormwater Management worksheet
- Stormwater Management checklist
- Simplified site plan
- Infiltration trench detail
- Infiltration trench notes
- Infiltration trench operation and maintenance notes
- [Appendix E, Stormwater BMP and Conveyances Operation and Maintenance Agreement](#)

Applicability

Small projects with more than 999 square feet or less than 2,000 square feet of Regulated Impervious Surfaces (as defined in the Stormwater Management Ordinance) and with less than 5,000 square feet of proposed Earth Disturbance (as defined) may apply the "Simplified Approach to Stormwater Management for Small Projects."

Only projects that meet the above size thresholds as specified in the Stormwater Management Ordinance may use the Simplified Approach and are then not required to submit a fully engineered Stormwater Management Site Plan. However, these projects are still required to address water quality and infiltration requirements as outlined in the Simplified Approach "Handbook". This Handbook is intended to aid applicants in addressing these requirements through the installation of a properly sized underground infiltration trench.

Any project with more than 2,000 square feet of Regulated Impervious Surface or more than 5,000 square feet of proposed Earth Disturbance can NOT apply this Simplified

Please refer to the full "Handbook" for additional information, which may be found here:
[Appendix A, Simplified Approach to Stormwater Management for Small Projects](#)

Simplified Approach – Stormwater Management Worksheet

Name of Property Owner:		Date:
Name of Applicant [If different than owner(s)]:		
Contact Phone #:	Email Address:	
Address of Project:		
Description of Project:		
Distance from Earth Disturbance to nearest surface water feature (stream, pond, wetland, etc.): <input type="checkbox"/> 50 feet or less <input type="checkbox"/> More than 50 feet		
REGULATED IMPERVIOUS SURFACES*		
Description of Proposed Impervious Surface	Dimensions [length X width]	Area (square feet)
Total Proposed Impervious Surface* (square feet): (If this is less than 1,000 feet ² , Stormwater Management is not required; if this is more than 1,999 feet ² , the Simplified Approach may not be used)		
Cumulative Total Impervious Surface Since <i>October 22, 2003</i> (square) feet):		
Total Proposed Earth Disturbance Area (square feet):		
PROPOSED UNDERGROUND INFILTRATION TRENCH SIZING		
Proposed Impervious Area to Trench (square feet)	Proposed Dimensions	
1		
2		
Does the project involve new roof area? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, the downspout must be connected to the proposed Underground Infiltration Trench and must have measures to prevent clogging by unwanted debris. Indicate the measure proposed: <input type="checkbox"/> Leaf trap <input type="checkbox"/> Gutter guards <input type="checkbox"/> Cleanout <input type="checkbox"/> Other: _____		

Signature: _____ Date: _____
 Printed Name: _____

Simplified Approach – Stormwater Management Checklist

Complete the checklist below to verify all required information is shown on the plan:

Yes	No	Not Applicable	Required Information
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Name and address of the owner of the property.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Name and address of individual preparing the plan (if different).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of plan preparation.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	North arrow.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Location of all existing features within 50 feet of the property, including (if present): <ul style="list-style-type: none"> • Buildings; • Driveways; • Roads; • Water Lines/Wells (or a note that no wells are present within 50 feet of the proposed facility); • Septic Systems/Sewer Mains and Laterals; • Streams, Wetlands, and Floodplains • Existing Stormwater Facilities; and • Easements.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Location and approximate size in square feet of existing roof area to be captured and diverted to the BMP.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Location and approximate size in square feet of proposed: <ul style="list-style-type: none"> • Structures; • Driveways; and
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Location, orientation, and dimensions of the proposed Underground Infiltration Trench(es). Length and width must be included on the plan.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Distance from the proposed Underground Infiltration Trench(es) to any existing surface water features, such as: streams, lakes, ponds, wetlands, or other natural waterbodies. Must be > 50 feet from surface water features or outside of an existing legally described buffer (i.e., deed, covenants, easement, etc.) whichever is greater. Contact the Municipality if this is not possible.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Distance from the proposed Underground Infiltration Trench(es) to any existing septic system, public sewer line, or lateral.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Distance from the proposed Underground Infiltration Trench(es) to any existing wells or waterlines.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Distance from the proposed Underground Infiltration Trench(es) to any existing wells or waterlines.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Show distance from at least two existing fixed features (e.g., house, shed, driveway) to the proposed Underground Infiltration Trench(es).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PA One Call Serial Number (Dial 8-1-1 or 1-800-242-1776) to receive.

NORTH ARROW

DATE



Underground Service Alert
Call: TOLL FREE
1-800-242-1776
**THREE WORKING DAYS
BEFORE YOU DIG**

PROPERTY OWNER

NAME:
ADDRESS:

PLAN PREPARER

NAME:
ADDRESS:

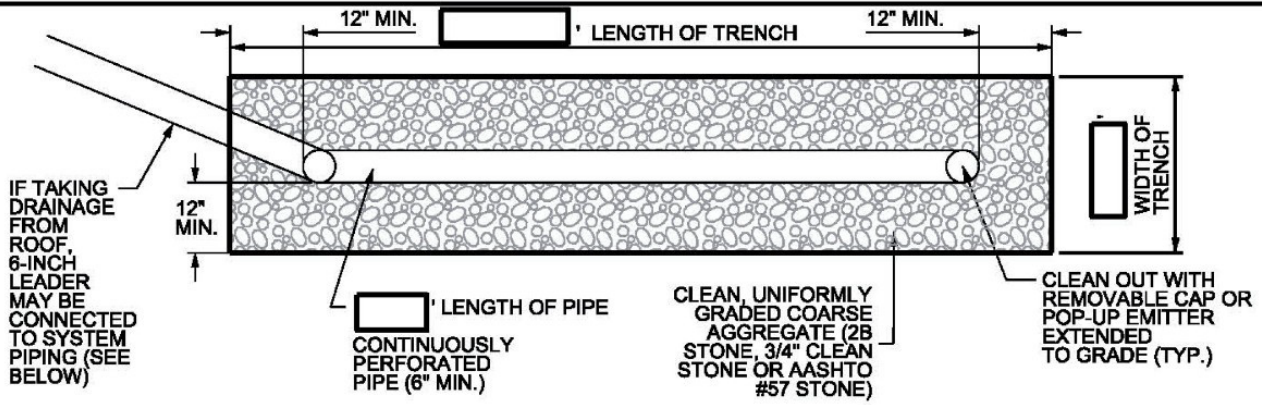
FOR USE BY MUNICIPAL ENGINEER

CHESTER COUNTY PENNSYLVANIA

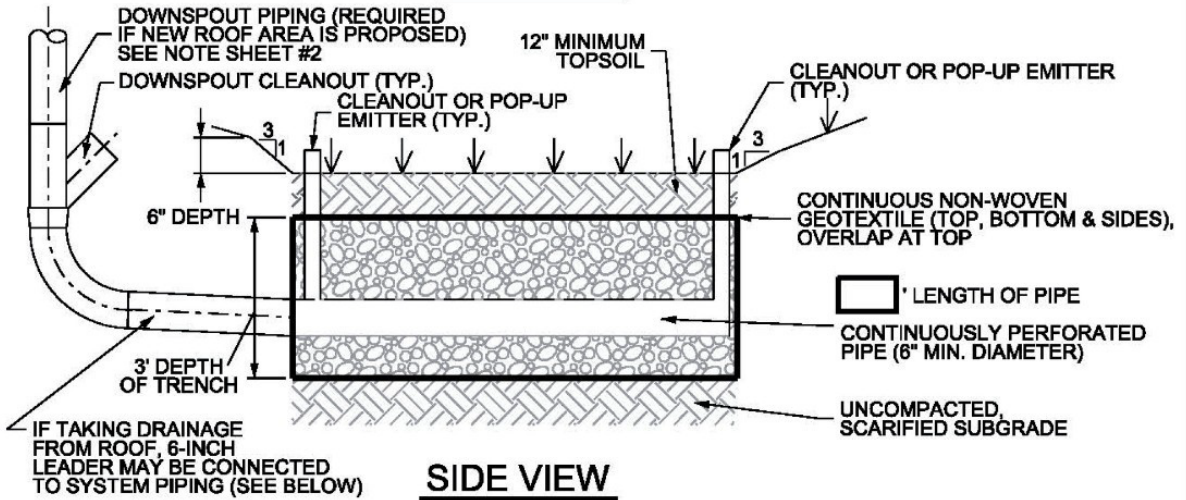
SHEET NO. 1

**SIMPLIFIED
SITE PLAN**

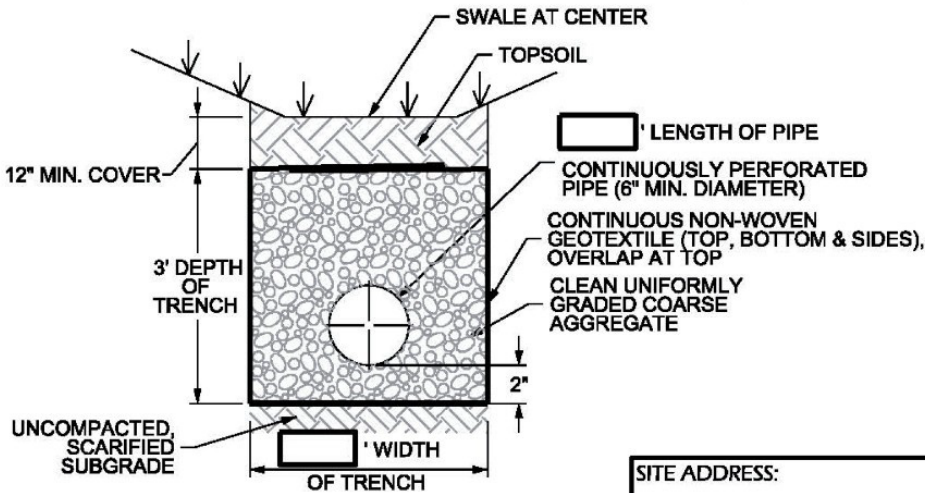
1 OF 4



TOP VIEW



SIDE VIEW



CROSS-SECTION VIEW

SITE ADDRESS:

DATE:



CEG
CEDARVILLE

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610.705.4500 (Office) | 610.705.4900 (Fax)

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SHEET NO. 2

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**INFILTRATION
TRENCH DETAIL**

2 OF 4

NOTES

§ 345-306.M: DURING SITE CONSTRUCTION, ALL INFILTRATION PRACTICE COMPONENTS SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL. INFILTRATION AREAS SHALL ALSO BE PROTECTED FROM SEDIMENTATION. AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED TO THE TOWNSHIP ENGINEER FOR REVIEW. ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTORY DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.

§ 345-306.N: WHERE SEDIMENT TRANSPORT IN THE STORMWATER RUNOFF IS ANTICIPATED TO REACH THE INFILTRATION SYSTEM, APPROPRIATE PERMANENT MEASURES TO PREVENT OR COLLECT SEDIMENT SHALL BE INSTALLED PRIOR TO DISCHARGE TO THE INFILTRATION SYSTEM.

§ 345-306.O: WHERE ROOF DRAINS ARE DESIGNED TO DISCHARGE TO INFILTRATION PRACTICES, THEY SHALL HAVE APPROPRIATE MEASURES TO PREVENT CLOGGING BY UNWANTED DEBRIS (FOR EXAMPLE, SILT, LEAVES AND VEGETATION). SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO LEAF TRAPS, GUTTER GUARDS AND CLEANOUTS.

§ 345-306.R: THE FOLLOWING PROCEDURES AND MATERIALS SHALL BE REQUIRED DURING THE CONSTRUCTION OF ALL INFILTRATION TRENCHES:

- (1) EXCAVATION FOR THE INFILTRATION TRENCH SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE INFILTRATION TRENCH.
- (2) THE BOTTOM OF THE INFILTRATION TRENCH SHALL BE SCARIFIED PRIOR TO THE PLACEMENT OF AGGREGATE.
- (3) ONLY CLEAN AGGREGATE WITH DOCUMENTED POROSITY, FREE OF FINES, SHALL BE ALLOWED.
- (4) THE TOPS AND SIDES OF ALL INFILTRATION TRENCH SHALL BE COVERED WITH DRAINAGE FABRIC. FABRIC SHALL BE NONWOVEN FABRIC ACCEPTABLE TO THE TOWNSHIP ENGINEER.
- (5) STORMWATER SHALL BE DISTRIBUTED THROUGHOUT THE ENTIRE SEEPAGE BED/TRENCH OR LIKE FACILITY AND PROVISIONS FOR THE COLLECTION OF DEBRIS SHALL BE PROVIDED IN ALL FACILITIES.
- (6) PA ONECALL IS REQUIRED BEFORE ANY CONSTRUCTION ACTIVITIES COMMENCE.

TRENCH LENGTH (1000-2000 SQUARE FEET OF REGULATED IMPERVIOUS SURFACE)

Impervious Surface (sf)	4' Wide Trench	5' Wide Trench	6' Wide Trench	7' Wide Trench	8' Wide Trench
	Length of Trench (ft)	Length of Trench (ft)	Length of Trench (ft)	Length of Trench (ft)	Length of Trench (ft)
1000	45.75	36.50	30.50	26.25	23.00
1001-1050	46.75	37.50	31.25	26.75	23.50
1051-1100	48.00	38.50	32.00	27.50	24.00
1101-1150	49.25	39.25	32.75	28.25	24.75
1151-1200	50.25	40.25	33.50	28.75	25.25
1201-1250	54.75	44.00	36.50	31.50	27.50
1251-1300	59.50	47.50	39.75	34.00	29.75
1301-1350	61.75	49.25	41.25	35.25	31.00
1351-1400	64.00	51.25	42.75	36.50	32.00
1401-1450	66.25	53.00	44.25	38.00	33.25
1451-1500	68.50	54.75	45.75	39.25	34.25
1501-1550	70.75	56.75	47.25	40.50	35.50
1551-1600	73.00	58.50	48.75	41.75	36.50
1601-1650	75.25	60.25	50.25	43.00	37.75
1651-1700	77.75	62.25	51.75	44.50	39.00
1701-1750	80.00	64.00	53.25	45.75	40.00
1751-1800	82.25	65.75	54.75	47.00	41.25
1801-1850	84.50	67.50	56.25	48.25	42.25
1851-1900	86.75	69.50	58.00	49.75	43.50
1901-1950	89.00	71.25	59.50	51.00	44.50
1951-1999	91.25	73.00	61.00	52.75	45.75

* DIMENSIONS IN THIS TABLE HAVE BEEN DETERMINED FOR MANAGING THE DIFFERENCE BETWEEN THE PRE-DEVELOPMENT AND POST-DEVELOPMENT, 2-YEAR FREQUENCY, 24-HOUR DURATION RAINFALL RUNOFF VOLUME

* TRENCH SHOULD BE SIZED BASED ON SQUARE FEET OF ROOF AREA DIRECTED TO THE PROPOSED TRENCH, WHICH MAY NOT EQUAL THE REGULATED IMPERVIOUS SURFACE PROPOSED.

SITE ADDRESS:

DATE:



CEG

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INFILTRATION
TRENCH NOTES

3C OF 4

STORMWATER FACILITIES OPERATIONS AND MAINTENANCE PLAN

THE HOMEOWNER WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF ALL STORMWATER AND BMP FACILITIES. THE FACILITIES WILL INCLUDE THE INFILTRATION TRENCH ON THE PROPERTY AS WELL AS ANY YARD OR ROOF DRAINS, PIPING, POP-UP EMITTERS OR CLEAN-OUTS SHOWN ON THIS PLAN.

MAINTENANCE AND OPERATION WILL BE AS FOLLOWS:

1. THE INFILTRATION TRENCH AND CONVEYANCES DESCRIBED IN THIS PLAN SHALL BE INSPECTED ANNUALLY OR AS NEEDED FOLLOWING SIGNIFICANT PRECIPITATION EVENTS TO ASCERTAIN IF ANY SEDIMENT IS ENTERING THE FACILITIES. THE INFILTRATION TRENCH AND CONVEYANCES DESCRIBED IN THIS PLAN SHALL BE CLEANED IF NECESSARY. CLEANING WILL CONSIST OF REMOVING THE ACCUMULATED SILT, DEBRIS, OR SEDIMENT.
2. THE OVERLYING VEGETATION ON THE INFILTRATION TRENCH SHALL BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS RE-VEGETATED AS SOON AS POSSIBLE.
3. VEHICULAR ACCESS ON THE INFILTRATION TRENCH SHOULD BE PROHIBITED, AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS.
4. REPAIR ALL DAMAGED PIPING, CLEAN-OUTS, AND POP-UP EMITTERS PROMPTLY TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM. SPECIAL CARE SHOULD BE TAKEN TO AVOID DAMAGING EXPOSED ELEMENTS WITH MOWERS AND/OR STRING TRIMMERS.
5. GRASSES OVER THE INFILTRATION TRENCH SHALL BE MOWED AT LEAST TWICE EACH YEAR. TREES AND SHRUBS SHOULD NOT BE PERMITTED TO GROW ABOVE THE INFILTRATION TRENCH.

SITE ADDRESS:

DATE:



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**INFILTRATION TRENCH
OPERATION &
MAINTENANCE NOTES**

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4 OF 4