STORMWATER MANAGEMENT (SWM)/LAND DISTURBANCE ACTIVITY PERMIT APPLICATION UNDER 3,000 SQUARE FEET

Contact Information			
Name	Address	Phone(s)	E-mail
❑Property Owner			
❑Applicant			
❑Contractor			

Site Address: _____ SWM Permit # _____

Tax Parcel ID _____

Step One (1)

☐ Have any other exterior improvements been completed on the property since October 20, 2022? If so, please list the projects and permit numbers below.

Step Two (2)

☐ Provide sketch plan of the property to include property lines, existing improvements, proposed improvements and the square footage of all existing impervious surfaces. You must also show the location and type of erosion and sediment control to be used (sample attached).

Step Three (3)

Calculate Required Storage (cu. ft.)

Enter the information in the blanks below:

1. New Impervious Area: _____ s.f.

2. Impervious Area to be Removed _____ s.f.

3. Calculate the total required sq-ft (#1 + #2) of impervious area which must be captured: _____ **s.f.**

5. Total required cubic feet of storage (Divide #3 by 6): _____ **c.f.**

Step Four (4)

☐ **Total Regulated Impervious Area is 500 s.f. or less.**

- Regulated activity may be fully exempt and a fee-in-lieu of $100.00 may be paid.

☐ **Total Regulated Impervious Area is greater than 500 s.f. but less than 3,000 s.f.**

Check appropriate box showing proposed method of SWM Best Management Practice (BMP) & complete information as required. You may request the below information to be completed by the Township. SWM can be addressed by any method or combination thereof that meets the requirements of the PA BMP Manual. See BMP Fact Sheets or Chapter 6 the PA BMP Manual for information on types of stormwater treatment options. The PA BMP manual can be found on the web at: www.elibrary.dep.state.pa.us/dsweb/View/Collection-8305

METHOD 1. Gravel Recharge (Dry Well, Infiltration Trench):

❑D-1 Detail: Infiltration Detail – Roof Infiltration
❑D-2 Detail: Infiltration Detail – Paver Surface
❑D-3 Detail: Infiltration Detail – Concrete Surface
❑D-4 Detail: Infiltration Detail – Grass Surface
❑Other: provide details on the size, location, and materials to be used (stone, fabric, etc)

Storage Provided = _____ (Length) x _____ (Width) x _____ (Depth) x _____ (0.4 (void ratio)) = _____ (Cubic feet of storage)

METHOD 2. Surface Retention (Vegetated Swale w/ Check Dam, Rain Garden)

☐ Swale w/ Check Dam

Storage Provided = _____ (Length) x _____ (Bottom Width) x _____ (Avg. Ponding Depth)

☐ Rain Garden

Storage Provided = _____ (Length) x _____ (Width) x _____ (Avg. Ponding Depth)

Storage Provided (irregular shapes) = _____ (Surface Area) x _____ (Avg. Ponding Depth)

METHOD 3. Capture and Reuse (Rain Barrel, Cistern)

☐ Rain Barrel/Cistern

Storage Provided in Circular Cistern (c.f.) = _____ [Diameter (ft)]^2 x _____ [Depth(ft)] x _____ (0.785)

Note: All "stand alone" rain barrels or similar storage vessels must be provided with a soaker hose or timed water release clock ($25 at local hardware stores). These recommended devices connect to a standard residential hose bib connection.

METHOD 4. Disconnected Impervious Area (DIA) - This method of SWM collects water from the roof or pavement and allows it to dissipate across relatively flat (less than 5% grade) land for an extended length, to be absorbed.

☐ Disconnect Impervious Area

New area to be controlled	_____ s.f.		**Length of pervious flow path[1]**	**Roof area treated as disconnected[2]**
Slope of overland path from roof ≤ 5%	_____ %		15 ft – 29 ft =	20%
Length of pervious flow path[1]	_____ ft.	→	30 ft - 44 ft =	40%
Area treated as disconnected[2]	_____ %	→	45 ft - 59 ft =	60%
			60 ft - 74 ft =	80%
			75 ft or more =	100%

Step Five (5)

Add the total volume control provided for methods 1 - 4 used **TOTAL PROVIDED** _____ **c.f.**

EROSION AND SEDIMENT CONTROL REQUIREMENTS: All land disturbance activities require erosion and sediment control. The use of silt sock, silt fence or hay bales are placed around the land disturbance area in such a way to prevent sediment from leaving the site. The erosion and sediment control must remain in place as long as there is exposed earth or soil or until the area is covered in seed and straw. All plans must show the location and type of erosion and sediment control proposed for the project.

INSPECTION REQUIREMENTS AND SCHEDULING: A pre-construction meeting is required prior to start of construction or release of any additional permits. Inspections shall be required during installation of materials and structures, upon the completion of all improvements and at other times deemed appropriate by the Township Engineer or Zoning Officer. An outline of the required inspections will be provided with the approved permit. No work shall begin on a subsequent phase until the preceding phase has been inspected and approval has been noted on the permit. The applicant must correct any portion of the work, which does not comply with the approved plan. No work may proceed on any subsequent phase until the required corrections have been made and approved. The provisions stated herein shall not be construed as mandating periodic inspections and the undertaking of periodic inspections shall not be construed as an acceptance of the work during construction or as a final inspection of the construction.

OPERATION & MAINTENANCE (O&M): I understand that I, the property owner, am responsible for the O&M of the SWM facilities. If I fail to adhere to the O&M requirements, the Township may perform the services required and charge the appropriate fees. Nonpayment of fees may result in a lien against the property.

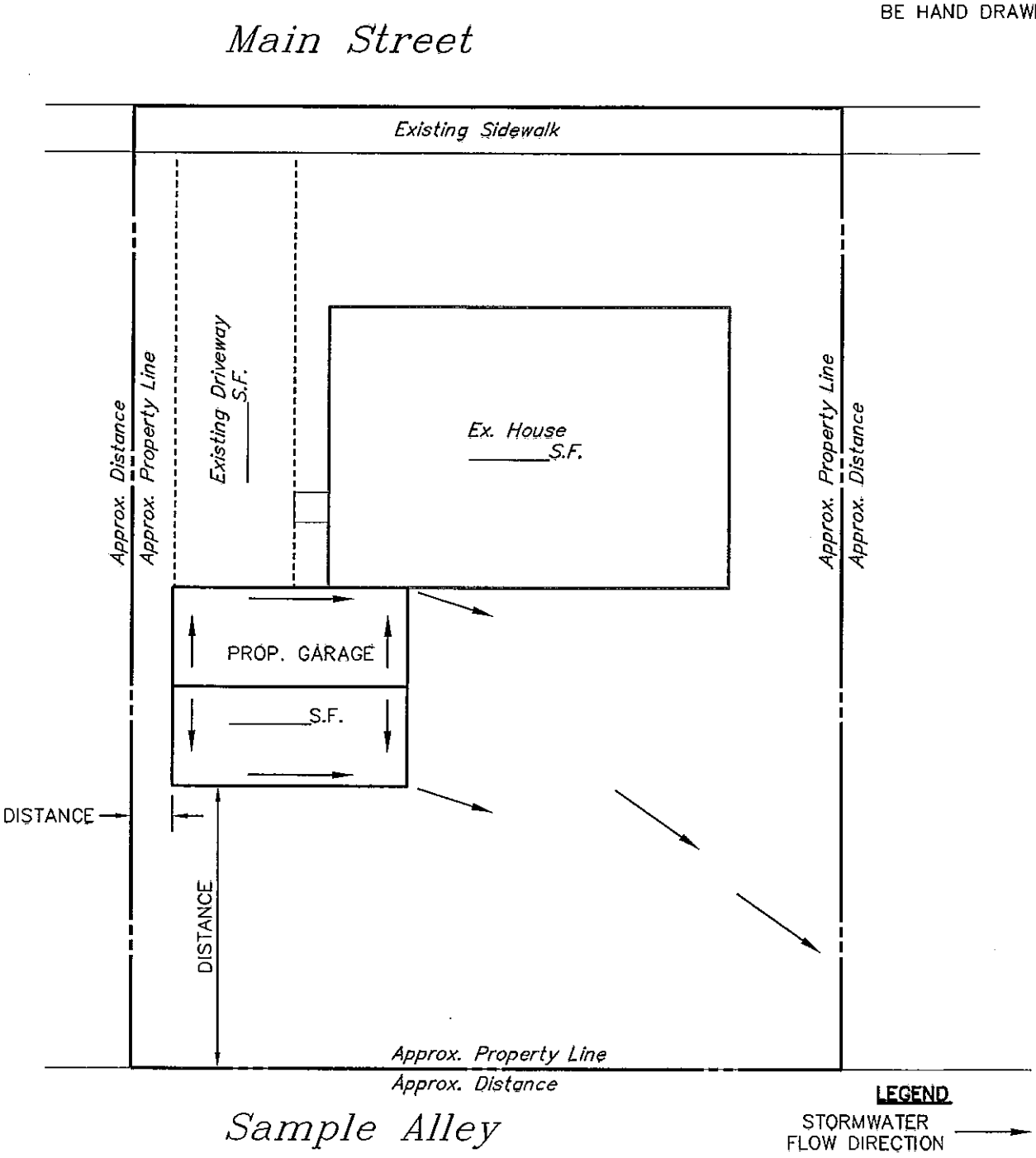
OWNER CERTIFICATION: I hereby make application for a stormwater management permit under all applicable ordinances of Hellam Township and hereby certify under penalty of perjury, the facts set forth herein and in the plans submitted herewith are true and correct. I further agree the premises will not be occupied prior to approval of this application. I hereby indemnify and hold harmless Hellam Township and/or the Township Engineer for any liability arising from the approval of this application or issuance of any permit. I am aware this permit expires one year from date of issuance.

Signature of Owner **Date**

TOWNSHIP APPROVAL

Signature of Zoning Officer or Township Engineer **Date**

NOTE:
THIS PLAN CAN
BE HAND DRAWN.



SAMPLE SKETCH/ SITE PLAN

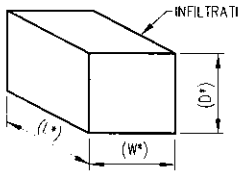
INFILTRATION BED SIZE (EXAMPLE)

EXAMPLE: (A* = 2,000 SF NEW IMPERVIOUS SURFACE)

A* (2,000 SF) x (0.167) = (334 CF)

(334 CF) ÷ (0.4) = (835 CF) REQUIRED STONE INFILTRATION VOLUME

(L*) x (W*) x (D*) ≥ (835 CF)



INFILTRATION BED SIZE MUST BE FILLED IN BY APPLICANT

(A* = NEW IMPERVIOUS SURFACE)

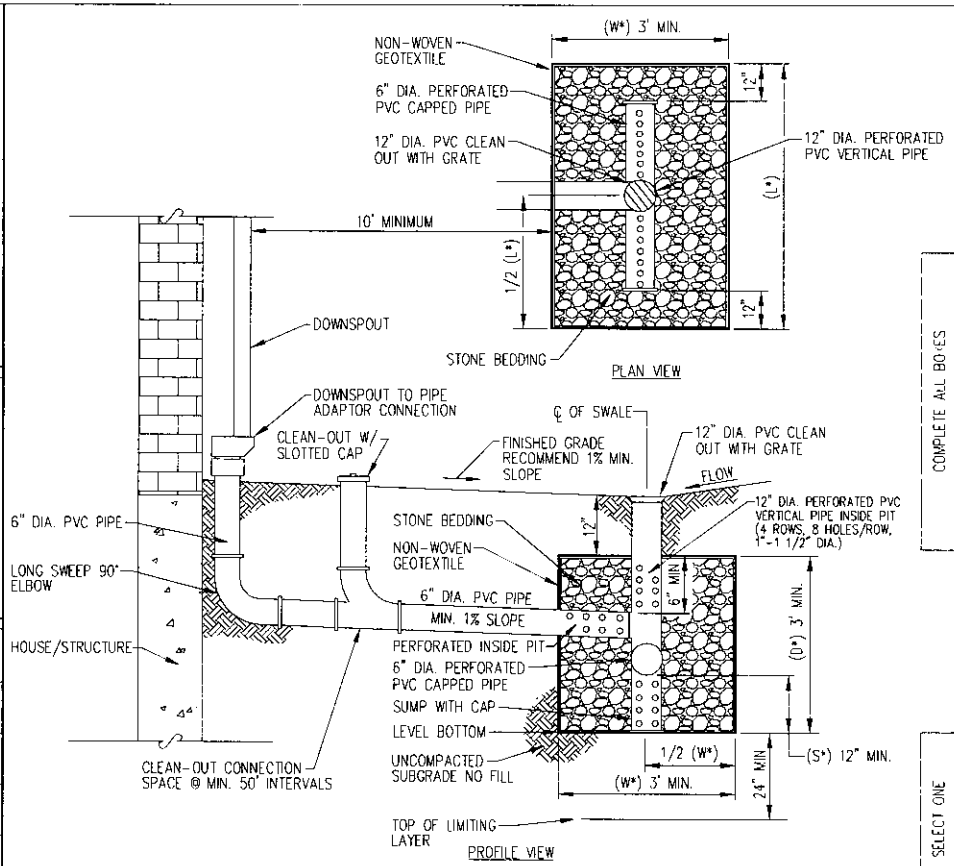
A*_____SF x (.167) = _____CF

_____CF ÷ (0.4) = _____CF

(L*)_____ x (W*)_____ x (D*)_____ ≥ _____CF

INSPECTION BY TOWNSHIP OFFICIAL

PRE CONSTRUCTION MEETING	DATE:	SYSTEM LAYOUT; SETBACKS; INSPECTION SCHEDULE; UTILITY CLEARANCE
	INSPECTOR:	
1	DATE:	ROUGH GRADING; INFIL SURFACE INSPECTION; CONNECTING DOWNSPOUT PIPES EXPOSED
	INSPECTOR:	
2	DATE:	FILTER FABRIC INSTALLED. PARTIAL STONE FILL EXPOSED; TRENCH & OUTLET PIPING
	INSPECTOR:	
3	DATE:	STONE BACKFILL COMPLETE, PIPE CONNECTION COMPLETE; BACKFILLED; FINAL GRADING; VEGETATION INSTALLED
	INSPECTOR:	
4	DATE:	INSPECT OPERATION OF SYSTEM DURING POST RAINFALL EVENTS
	INSPECTOR:	
FINAL	DATE:	SITE RESTORATION WORK; PERMIT CLOSEOUT
	INSPECTOR:	



SUBSURFACE INFILTRATION BED CONNECTION OF ROOF LEADER

NO SCALE

CONSTRUCTION NOTES:

1. CONDUCT ON-SITE PRE CONSTRUCTION MEETING WITH TOWNSHIP
2. SUBSURFACE INFILTRATION BED DIMENSIONS MUST BE APPROVED BY HELLAM TOWNSHIP ENGINEER OR APPROVED TOWNSHIP REPRESENTATIVE PRIOR TO EARTH DISTURBANCE ACTIVITIES.
3. SUBSURFACE INFILTRATION BEDS MUST BE INSPECTED BY HELLAM TOWNSHIP. AN INSPECTION SCHEDULE MUST BE APPROVED BY HELLAM TOWNSHIP PRIOR TO EARTH DISTURBANCE ACTIVITIES.
4. DURING EARTH DISTURBANCE ACTIVITIES, INFILTRATION AREAS MUST BE PROTECTED FROM COMPACTION, SEDIMENT INTRUSION AND CONSTRUCTION TRAFFIC
5. NON-WOVEN GEOTEXTILE MUST ENVELOP STONE AND MAINTAIN A 12 INCH OVERLAP AT ALL SEAMS.
6. GRATES FOR PVC CLEANOUTS SHALL BE AASHTO H10 OR H20 LOAD RATED DEPENDING ON THEIR PLACEMENT (H20 FOR VEHICULAR LOADING).
7. CAPPED CLEANOUTS MUST BE PROVIDED AT 50 FOOT INTERVALS FROM ROOF DOWNSPOUTS TO SUBSURFACE INFILTRATION BEDS AND MAY BE PROVIDED AT ENDS OF DISTRIBUTION PIPES.

OPERATION AND MAINTENANCE:

1. AT LEAST FOUR TIMES EACH YEAR, INSPECT EXPOSED INFILTRATION STONE BEDDING, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS AND AREAS DRAINING TO BEDS.
2. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS.
3. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE OR EXPOSED INFILTRATION BEDS, CONNECTING MEADOW OR GRASS AREAS OR ON YARD AREAS THAT DRAIN TO BEDS.

INFORMATION MUST BE FILLED IN BY APPLICANT

INFILTRATION BED INFORMATION

COMPLETE ALL BOXES

	INFILTRATION BED #1	#2	#3
A* (SF)			
L* (FT)			
W* (FT)			
D* (FT)			
S* (IN)			

STONE BEDDING

SELECT ONE

	INFILTRATION BED #1	#2	#3
AASHTO (No. 1)			
AASHTO (No. 3)			
PA (No. 4 BALLAST)			

NON-WOVEN GEOTEXTILE MATERIAL

SELECT ONE

	INFILTRATION BED #1	#2	#3
US 120 NW			
US 115 NW			
APPROVED EQUAL			

DWG. NO. D-1

FOR RESIDENTIAL BUILDING PLANS

DWG. TITLE
INFILTRATION DETAIL
ROOF LEADER

DATE:

PROJECT TITLE

OWNER:

ADDRESS:

INFILTRATION BED SIZE (EXAMPLE)

EXAMPLE: (A* = 2,000 SF NEW IMPERVIOUS SURFACE)

A* (2,000 SF) x (0.167) = (334 CF)

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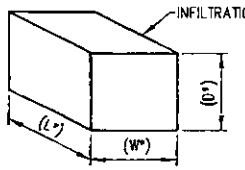

INFILTRATION BED SIZE MUST BE FILLED IN BY APPLICANT

(A* = NEW IMPERVIOUS SURFACE)

A*_____SF x (.167) = _____CF

_____CF ÷ (0.4) = _____CF

(L*)____ x (W*)_____ x (D*)_____ ≥ _____CF

INSPECTION BY TOWNSHIP OFFICIAL

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	INSPECTOR:	
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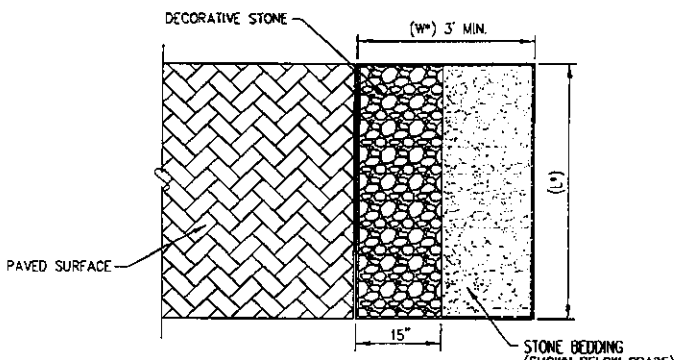
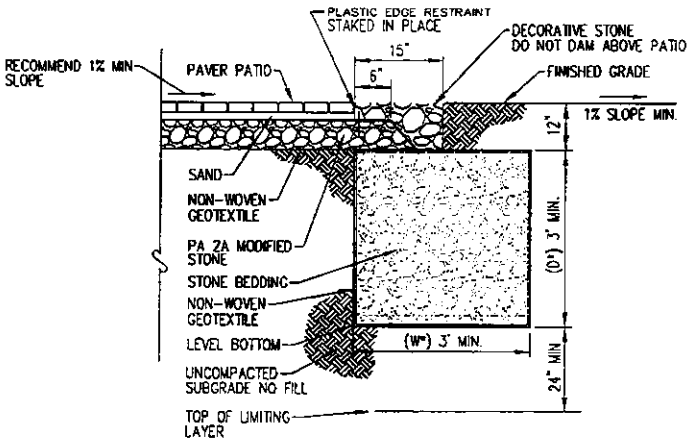


(A*) PAVER SURFACE AREA DRAINED TO BED

PLAN VIEW



PROFILE VIEW

SUBSURFACE INFILTRATION BED CONNECTION OF PAVER SURFACE

NO SCALE

CONSTRUCTION NOTES:

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INFORMATION MUST BE FILLED IN BY APPLICANT

INFILTRATION BED INFORMATION

COMPLETE ALL BOXES	INFILTRATION BED #1	#2	#3
A* (SF)			
L* (FT)			
W* (FT)			
D* (FT)			
S* (IN)			

STONE BEDDING

SELECT ONE	INFILTRATION BED #1	#2	#3
AASHTO (No. 1)			
AASHTO (No. 3)			
PA (No. 4 BALLAST)			

NON-WOVEN GEOTEXTILE MATERIAL

SELECT ONE	INFILTRATION BED #1	#2	#3
US 120 NW			
US 115 NW			
APPROVED EQUAL			

DWG. NO. D-2

FOR RESIDENTIAL BUILDING PLANS

DWG. TITLE: INFILTRATION DETAIL PAVER SURFACE

DATE:

PROJECT TITLE

OWNER:

ADDRESS:

INFILTRATION BED SIZE (EXAMPLE)

EXAMPLE: (A* = 2,000 SF NEW IMPERVIOUS SURFACE)

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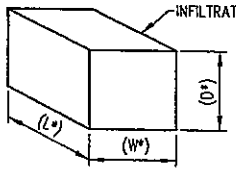

INFILTRATION BED SIZE MUST BE FILLED IN BY APPLICANT

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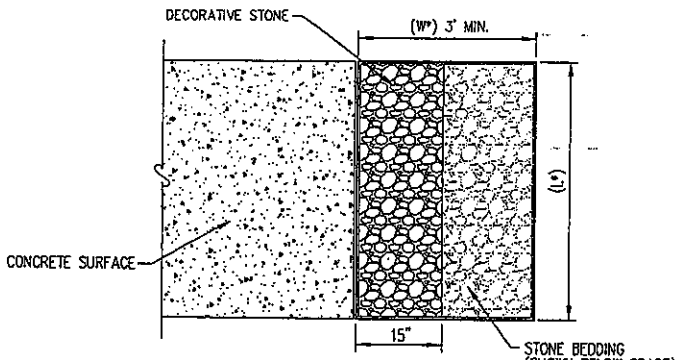
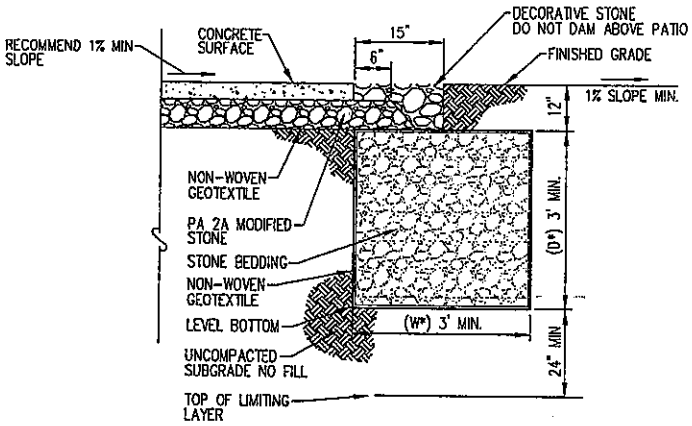


(A*) PAVER SURFACE AREA DRAINED TO BED

PLAN VIEW



PROFILE VIEW

SUBSURFACE INFILTRATION BED CONNECTION OF CONCRETE SURFACE

NO SCALE

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INFORMATION MUST BE FILLED IN BY APPLICANT

INFILTRATION BED INFORMATION

COMPLETE ALL BOXES	INFILTRATION BED #1	#2	#3
A* (SF)			
L* (FT)			
W* (FT)			
D* (FT)			
S* (IN)			

STONE BEDDING

SELECT ONE	INFILTRATION BED #1	#2	#3
AASHTO (No. 1)			
AASHTO (No. 3)			
PA (No. 4 BALLAST)			

NON-WOVEN GEOTEXTILE MATERIAL

SELECT ONE	INFILTRATION BED #1	#2	#3
US 120 NW			
US 115 NW			
APPROVED EQUAL			

DWG. NO. D-3

FOR RESIDENTIAL BUILDING PLANS

DWG. TITLE INFILTRATION DETAIL CONCRETE SURFACE

DATE:

PROJECT TITLE

OWNER: _____

ADDRESS: _____

INFILTRATION BED SIZE (EXAMPLE)

EXAMPLE: (A* = 2,000 SF NEW IMPERVIOUS SURFACE)

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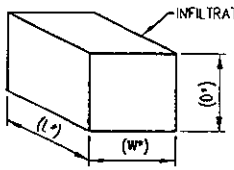

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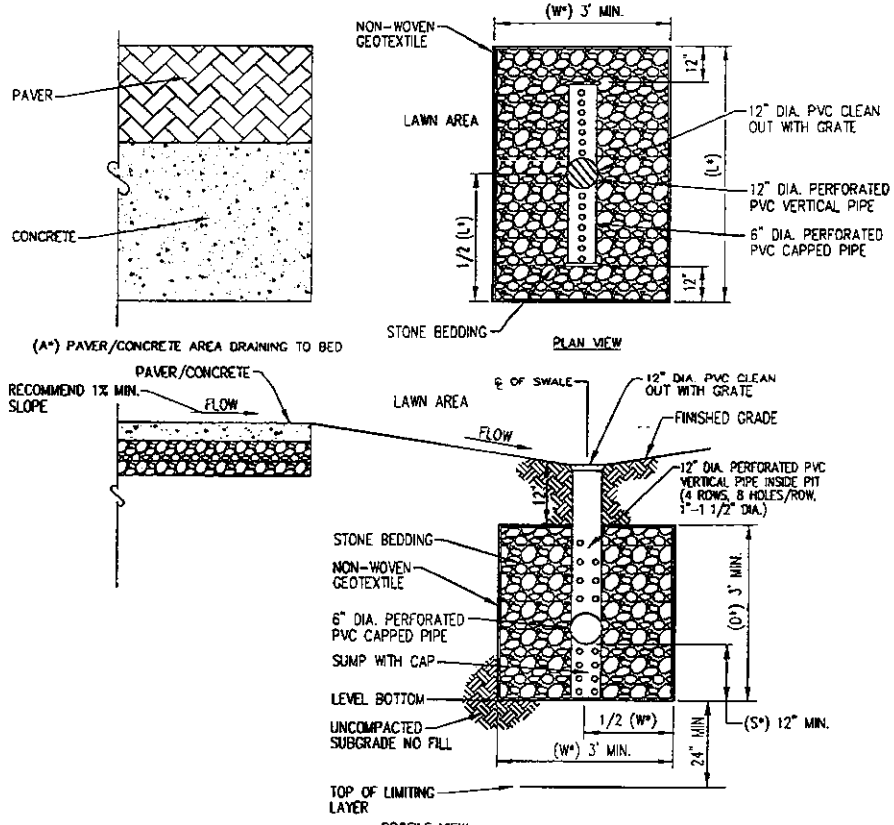

SUBSURFACE INFILTRATION BED IN LAWN FROM PAVER OR CONCRETE SURFACE

NO SCALE

CONSTRUCTION NOTES:

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INFILTRATION BED INFORMATION

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A* (SF)			
L* (FT)			
W* (FT)			
D* (FT)			
S* (IN)			

STONE BEDDING

SELECT ONE	INFILTRATION BED #1	#2	#3
AASHTO (No. 1)			
AASHTO (No. 3)			
PA (No. 4 BALLAST)			

NON-WOVEN GEOTEXTILE MATERIAL

SELECT ONE	INFILTRATION BED #1	#2	#3
US 120 NW			
US 115 NW			
APPROVED EQUAL			

DWG. NO. D-4

FOR RESIDENTIAL BUILDING PLANS

DWG. TITLE: INFILTRATION DETAIL IN LAWN

DATE:

PROJECT TITLE

OWNER:

ADDRESS: