

I.

ENGINEERING AND ENVIRONMENTAL SERVICES

Stormwater Division

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INFILTRATION SYSTEM DESIGN SUMMARY

Stormwater Management Construction Plan Review:

PROJECT INFORMATION

A complete Stormwater management construction plan submittal includes a design summary for each Stormwater BMP, design calculations, plans and specifications showing BMP, inlet and outlet structure details.

For projects with multiple SCMs, specify which SCM this worksheet applies to: Project Name: _____ Phase: _____ _____ Case #: _____ Legal Name of Owner: _____ Owner Contact: _____ Phone: _____ Owner Address: Design Contact Person: Phone: II. GENERAL MINIMUM DESIGN CRITERIA FOR ALL SCMs (Revised 1/3/2017) **GENERAL MDC 1: SIZING** (One year, 24 hour storm event) Design storm depth ft (Minimum calculation of entire drainage ft³ Design runoff volume area) **GENERAL MDC 2: CONTAMINATED SOILS** (Brownfield location?) Y/N Contaminated soils within footprint? **GENERAL MDC 3: SIDE SLOPES** (Maximum 3:1 vegetated slopes) Maximum vegetated side slopes : 1 **GENERAL MDC 4: EROSION PROTECTION** (Must be non-erosive) 10 year storm outlet discharge cfs

GENERAL MDC 5: EXCESS FLOW

Emergency outlet elevation	ft
Emergency spillway width	ft
Emergency spillway side slopes	: 1
Emergency spillway slope	%

GENERAL MDC 6: DEWATERING

Dewatering method		
Drawdown orifice size	in	(If applicable)

GENERAL MDC 7: CLEAN OUT AFTER CONSTRUCTION

Every SCM impacted by sediment and erosion control during the construction phase shall be cleaned out and converted to its approved design state

In addition, installed SCM's should be inspected and cleaned after each heavy rainfall

GENERAL MDC 8: MAINTENANCE ACCESS

Maintenance access width	ft
Side slopes within maintenance access	: 1
Access extend to public right of way	Y / N

(Minimum width of 25 feet) (Maximum 3:1)

GENERAL MDC 9: EASEMENTS

All SCMs and associated maintenance accesses located in permanent recorded easement? (shown and labeled in easement)	Y/N
Maintenance access width around SCM	ft

(Does not include single family residential lots)

(Minimum width of 10 feet)

GENERAL MDC 10: SINGLE FAMILY RESIDENTIAL LOTS

Plats for residential lots that contain an SCM shall include:

- (a) The specific location of the SCM on the lot
- (b) A typical detail for the SCM to be used
- (c) A note that the SCM on the property has been required to meet stormwater regulations and that the property owner may be subject to enforcement actions if the SCM is removed, relocated, or altered without prior approval

GENERAL MDC 11: OPERATION AND	MAINTENANCE	AGREEME	NT
Acknowledgement that the association someone and maintain the stormwater commanagement facilities	•		(Check box when completed)
Establishment of an escrow account whi solely for sediment removal, structural, vegetative replacement, major repair, of the SCM	biological or		
GENERAL MDC 12: OPERATION AND	MAINTENANCE	PLAN	
Specify all operation and maintenance we the function of all SCM components	vork necessary for		(Check box when completed)
Specify methods to be used to maintain SCMs to design specifications in the eve			
O&M plan shall be signed by the owner	and notarized		
INFILTRATION MDC 1: SOIL INVESTIGE Infiltration system elevation Infiltration surface area	ft SF		
INFILTRATION MDC 2: SEPARATION		- -	
SHWT elevation	ft ft	-	ned through soil tests)
Bottom elevation of infiltration system	ft	(Minimun	n 2 feet above SHWT)
INFILTRATION MDC 3: SOIL SUBGRA	DE SURFACE		
Slope of surface of soil subgrade?	%	(Slope mu	st be less than or equal to 2%)
Type of pretreatment	NT	Gravel ve	erges, filter strips, grassed swales
Type of pretication		or forebay	
INFILTRATION MDC 5: DRAWDOWN	TIME		
Drawdown time	days	(72 hours,	/3 days or less required)

INFILTRATION MDC 6: OBSERVATION PORT

Infiltration devices under ground surface?	Y/N	(If yes, minimum of 1 inspection port
		required)

IV. REQUIRED ITEMS CHECKLIST

The following checklist outlines design requirements. Initial in the space provided to indicate the following design requirements have been met and supporting documentation is attached.

Applicant's initials	
	nvestigation has been completed as specified to establish ties and soil characteristics within proposed footprint.
b. Bottom elevation	of infiltration system is a minimum of 2 feet above the SHWT.
c. The surface of so	il subgrade shall have slope of less than or equal to 2 percent.
Terraces and baf	fles may be installed to achieve level subgrade.
d. Pretreatment de	vice(s) are provided to prevent clogging of the system.
	ystem is designed to dewater the design volume to the bottom device in 72 hours (3 days) or less.
f. If infiltration devi port is included.	ces are under the ground surface, a minimum of 1 inspection
g. A profile view of	the infiltration system is provided.
h. A plan view of th elevations show	e infiltration system is provided with dimensions and spot n.

NOTE: Executed Stormwater Facility Operations and Maintenance Permit Agreement and payment of surety are required prior to Stormwater Permit issuance.