POST-CONSTRUCTION WORKSHEET FOR THE COUNTY OF SHASTA PROJECT SUMMARY SHEET

Project Owner Informa	tion:							IAN 0 2 2023
Project Owner Name:	KEVIN BRINK					023-0001		
Name of Contact Person:	KE'	KEVIN BRINK					TY OF SHA	
Mailing Street Address:	205	20501 CHIPETA WAY					PER	MIT COUN
City:	REI	REDDING State: CA			CA	Zip: 96003		
Telephone:	(53	(530) 275 - 5534 Email: KBRINI				KBRINK@	MORGANC	REEKCONST,COM
Project Information:								
Project Name:	ABE	ERNATHY						
Name of Contact Person:	KEV	IN BRINK			4.0			
Project Address:	978	8 ABERNATHY LAN	1E					110
City:	N/A		State:	C	A		Zip:	96003
Anticipated construction start date:		2023			Ending d	ate:		2023
Project size (ft²):		3.48 ACRES (GRO 2.72 ACRES (NET)	SS)		Construction Permit Eligibl			
Information of the Post-Co.	nstru	ction Standards Plan	Preparei	r:				
Name of Organization:	DKN	I ENGINEERING						
Name of Contact Person:	DUA	ANE MILLER						
Mailing Street Address:	6172	6172 MEISTER WAY						
City:	AND	ANDERSON State: CA					Zip:	96007
Telephone:	(530) 365 - 5610		E	mail:		DUANE@DK	(MENGR.COM
Project Applicability:								
Type of Project:		Small Project (Impe	rvious Are	a =	2,500 to 5,0	000 ft ² or	detached sin	gle family home)
(Check one)	Х	Regulated Project (Impervio	us	Area > 5,00	00 ft ²)		_
		Not applicable to t	he Post-C	on	struction St	andards	Plan	
		(provide reason in the	e space be	lou	v)			
Is this a redevelopment project? (Yes / No)		NO		in th in	Vill the project of an increase conan 50% of the opervious surf (es / No)	of more e		YES
Has the project or the vesting map received approval from the municipality? (Y, N, N/A)				V	Pate of projections of provided the second s	ect or		
Describe the nature and scope of the construction project:	DEVELOPMENT OF 4 WAREHOUSES AND 4 ACCOMPANYING OFFICES				NG OFFICES			
Number of Drainage Manage	emen	t Areas (DMAs):					2	

POST-CONSTRUCTION WORKSHEET FOR THE COUNTY OF SHASTA REGULATED PROJECT DMA SUBMITTAL SHEET

Drainage Management Area (DMA) & Project Information:

A separate Regulated Project DMA Submittal Sheet is required to be completed and submitted for each DMA.

Project Name:	ABERNATHY				
Project Owner Name:	KEVIN BRINK				
Project Address:	788 ABERNATHY LANE				
DMA Name/Number:	DMA #1				
DMA area (ft²)	67,678				

Source Controls Activities:

Indicate which of the following activities or pollutant sources are included in this DMA. Appropriate Source Control Measures are required for all source control activities. Please refer to the CASQA New Development & Redevelopment BMP Handbook for information on applicable Source Control Measures.

Source Control Activities	(Y/N)	CASQA Source Control
	(,,,,,,	Measure to Be Implemented
Regular activities with potential for spills or leaks	N	Wiedsare to be impremented
Interior floor drains	N	
Outdoor parking / storage areas and maintenance	Υ	
Indoor and structural pest control	N	
Landscape / outdoor pesticide use	N	
Pools, spas, ponds, fountains, and other water features	N	
Restaurants, grocery stores, and other food service operations	N	
Trash containers	N	
Industrial processes	N	
Outdoor storage of equipment or materials	N	
Vehicle and equipment cleaning	N	
Vehicle and equipment repair and maintenance	N	
Fuel dispensing areas	N	
Loading docks	N	
Drain or wash water from boiler drain lines, condensate drain	N	
lines, rooftop equipment, drainage sumps, and other sources		
Unauthorized non-storm water discharges	N	
Building and grounds maintenance	N	

Hydrologic Soil Group and Soil Type Information:

Enter information concerning the soil types within this DMA.

Soil Type Name	HSG Group (A, B, C, or D)
	TYPE C

Pre-and Post-Development Project Hydrology Information:

Provide the following hydrology information for this DMA.

Pre-development Conditions:

Percent Impervious	0
--------------------	---

Post-development Conditions:

Percent Impervious	41%
Average runoff coefficient for this DMA	.55
Peak flow rate (ft ³ /sec) for this DMA using the 2-year 24-hour design precipitation of 4.0 inches.	3.40 CFS

Selection of Site Design Measures:

Select one or more of the following Site Design Measures which will be incorporated into this DMA. List the associated area credit generated by the State's Post-Construction Calculator.

Site Design Measures	Area Credit
Stream Setbacks and Buffers	
Soil Quality Improvement and Maintenance	
Tree Planting and Preservation	
Rooftop and Impervious Area Disconnection	
Porous Pavement	
Green Roofs	
Vegetated Swales	1,496
Rain Barrels and Cisterns	

Post-Construction Calculator Information:

Enter the following data from the State's Post-Construction Calculator:

Pre-project Runoff Volume (ft³)	2,855
Post-project Runoff Volume (ft³)	3,556
Runoff Volume Reduction Credits (ft³)	1,362

Treatment Control Measures:

Indicate which Treatment Control Measures will be used for <u>this DMA</u>. Provide calculations and design drawings for the selected measures.

Treatment Control Measure	Design Volume Treated	Volume Treated as % of Post Site Design Measure Volume		
VEGETATED INFILTRATION BASIN	1680	112.30		

Variations and Exceptions:

Identify any applicable variations or exceptions for this DMA.

Condition	Allowed Variation	Applicable to this DMA? If so, explain.
Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project	May incorporate an impervious cutoff wall between the bioretention / infiltration facility and the structure or other geotechnical hazard	N/A
Facilities with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures	May incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a "flow-through planter")	N/A
Facilities located in areas of high groundwater, highly infiltrative soils or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible	May omit the underdrain	N/A
Facilities serving high-risk areas such as fueling stations, truck stops, auto repairs, and heavy industrial sites	Are required to provide additional treatment to address pollutants of concern prior to the flow reaching the infiltration facility	N/A

ernate non-inj quirements in <u>S</u>	nent control m	easure(s) tnat	wiii be usea	in accordance v	vith the developme
		*			

Step 8 - Summary

Project name Abernathy DMA #1
Climate station REDDING AP
Saturated hydraulic conductivity 0.32 in/hr
Design Storm 0.91 inches

Method	LID BMP Types	Area Needed (square feet)	Area Avaliable (square feet)	Percent Accomplished	Volume Evaporated (acre-ft/year)	Volume Infiltrated (acre-ft/year)	Volume of Passing Through the Underdrain (acre-ft/year)	Volume Untreated (acre-ft/year)
Design Storm	Vegetated Infiltration Basin	1496	1680	112.30	-	-	-	-
	Total LID	BMP Area	1680	112.30	-		-	-
	Total Imper	vious Area	27816	0.00	-	-	=	=
	_	Totals	29496.00	112.30	-	=	=	-
BACK				and the second s			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Instruction	ns +							
Backgroun	nd +	1. Kinga (1. gr. v 110 a r.)						
CA Phase	II LID Sizing Tool Meth	ods +					9	

Special Notes Regarding the Tables +

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California Phase II LID Sizing Tool - BMP Details

Summary

Project name Abernathy DMA #1
Climate station REDDING AP

Saturated hydraulic conductivity

0.32 in/hr 27816 square feet

LID area Total area

Impervious area

1680 square feet 29496 square feet

Percent Accomplished

112.3%

LID BMP

Vegetated Infiltration Basin

Design Storm

Methodology

User selected design storm is 0.91 inches

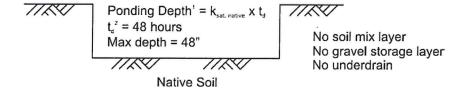
85th % design storm is 0.91 inches

Design storm volumetric runoff coefficient 0.892

Description

Vegetated infiltration basins are shallow, vegetated basins designed to provide storage and promote infiltration of runoff into the underlying native soils. The basins modeled by the CA Phase II LID Sizing Tool assume a surface storage depth dependent on the saturated conductivity of the underlying native soils.

LID BMP - Vegetated Infiltration Basin



Depths

LID Layer Depth (inches)

Ponding 16

Notes

- 1. City of Sacramento et al. 2007, used for design of infiltration trench depth.
- 2. City of Sacramento et al. 2007, could use 72 hours but 48 hours provides a factor of safety for open-atmosphere ponding and vector issues.

Note: Assumes vertical slopes. If slopes are laid back, areas must be recalculated manually.

Methodology: Design Storm

The Design Storm Method is based on Section E.12.e.ii.c.1.a of the permit, which allows LID stormwater retention and treatment facilities that evapotranspire, infiltrate, harvest/use, and biotreat stormwater to be designed as follows (SWRCB 2013):

"The maximized capture storm water volume for the tributary area, on the basis of historical precipitation records, determined using the formula and volume capture coefficients in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998) pages 175-178 (that is, approximately the 85th percentile 24-hour storm runoff event)".

The area reported for the Design Storm Method is based on a default 85th percentile, 24-hour design storm as specified in the Phase II permit. Some areas of the state require use of a different design storm, such as the Central Coast Regional Water Quality Control Board (RWQCB) where the 95th percentile design storm is a common requirement. For such cases, the user my over-ride the default design storm (i.e., the 85th percentile storm) with an alternative precipitation depth in the "Select a design storm depth in inches" cell located below the table and clicking "Submit"

Further details on this method are provided in the **Documentation Manual**.

Links

EPA Fact Sheet for Infiltration Basins

General

CASQA LID Portal

Central Coast LID Initiative

EPA Low Impact Development Site

Low Impact Development Urban Design Tools Website

EPA BMP Fact Sheet for Post-Construction Stormwater Management in New Development and Redevelopment

EPA BMP Fact Sheet for On-Lot Treatment

Contech LID Site Planner (LID Feasibility Screening Tool - coming soon...)

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Po	st-Const	ruction W	ater Balance C	alcul	ator	
	(Step 1a) If you know the 85th percentile storm event for your location enter it in the box below User may make changes from any cell tal is orange or brown in color (similar		(Step 1b) If you can not answer 1a then select the county where the project is located (click on the cell to the right for drop-down): This will determine the average 85th percentile 24 hr. storm event for your site, which will appear under precipitation to left.	SHASTA		
to the cells to the immediate right). Cells in green are calculated for you.			(Step 1c) If you would like a more percise value select the location closest to your site. If you do not recgonize any of these locations, leave this drop-down menu at location. The average value for the County will be used.		SHAS	TA DAM
Project Information	on	《沙里》	Run	off Calculatio	ns	
Project Name	: ABE	RNATHY	(Step 2) Indicate the Soil Type (dropdown menu to right):	Group C Soils		ration. Sandy clay loan n rate 0.05 to 0.15 inch/l when wet.
Waste Discharge Identification (WDID)		N/A	(Step 3) Indicate the existing dominant non-built land Use Type (dropdown menu to right):	Open Space: grass cover <50%		
Date	7/1	4/2022	(Step 4) Indicate the proposed dominant non-built land Use Type (dropdown menu to right):	Solid lawn, grass, pasture or meadow covering the open space		
Sub Drainage Area Name (from map).		otional		Complete	e Either	
Runo	ff Curve Numbers	1377		Sq Ft	Acres	Acres
AND STREET M. Sec. 11	Runoff Curve Number	86	(Step 5) Total Project Site Area:	67678	Kuni.	1.55
Proposed Development Pervious	Runoff Curve Number	82	(Step 6) Sub-watershed Area:	67678	646	1.55
	Design Storm		Percent of total project :	8	100	0%
Based on the County you indicated above, we have included the 85 percentile average 24 hr event - P85 (in) ⁶ for your area.	1.68	in			東北	《
The Amount of rainfall needed for runoff to occur (Existing runoff curve number -P from existing RCN (in)^)	0.33	In	(Step 7) Sub-watershed Conditions	Complete	Either	Calculated Acres
P used for calculations (in) (the greater of the above two criteria)	1.68	In	Sub-watershed Area (acres)	Sq Ft	Acres	1.55
^Available at_ www.cabmphandbooks.com			Existing Rooftop Impervious Coverage	0	0	0.00
			Existing Non-Rooftop Impervious Coverage	0		and a second
			Proposed Rooftop Impervious Coverage	الم البيانات	0	0.00
			Proposed Non-Rooftop Impervious	14724	0	0.34
			Coverage	13092	0	0.30
			Credits	Acre		Square Feet
			Porous Pavement Tree Planting	0.00		0
Pre-Project Runoff Volume (cu ft)	3,457	Cu.Ft.	<u>Downspout Disconnection</u>	0.00	110	0
Project-Related Runoff Volume Increase w/o credits (cu ft)	3,397	Cu.Ft.		A Se		
and the states (ou ity	English Bay Tradeson		Impervious Area Disconnection Green Roof	0.00	16	0
			Stream Buffer	0.00	4, 177	0,
Project-Related Volume Increase	TO SEY	-	Vegetated Swales	0.64		27,878
with Credits (cu ft)	2,096	Cu.Ft.	Subtotal	0.64	A 1800-1	27,878
	E-TABLE	Tax Marian 200	Subtotal Runoff Volume Reduction Credit	1301	Cu. Ft.	
You need to do more imper re	rious area reduction to quirements	o meet minimum (4	Step 9) Impervious Volume Reduction Credits Rain Barrets/Cisterns Soil Quality	0 (Volume (cu Cu. Ft.	ibic feet)
STATE OF THE STATE			Subtotal Runoff Volume Reduction		Cu. Ft.	
			Total Runoff Volume Reduction Credit	1,301	Cu. Ft.	A STATE OF

POST-CONSTRUCTION WORKSHEET FOR THE COUNTY OF SHASTA REGULATED PROJECT DMA SUBMITTAL SHEET

Drainage Management Area (DMA) & Project Information:

A <u>separate</u> Regulated Project DMA Submittal Sheet is required to be completed and submitted for each DMA.

Project Name:	ABERNATHY	
Project Owner Name:	KEVIN BRINK	
Project Address:	9788 ABERNATHY LANE	
DMA Name/Number:	DMA #2	
DMA area (ft²)	55,422	

Source Controls Activities:

Indicate which of the following activities or pollutant sources are included in this DMA. Appropriate Source Control Measures are required for all source control activities. Please refer to the CASQA New Development & Redevelopment BMP Handbook for information on applicable Source Control Measures.

Source Control Activities	(Y / N)	CASQA Source Control
	SK 5-627	Measure to Be Implemented
Regular activities with potential for spills or leaks	N	
Interior floor drains	N	
Outdoor parking / storage areas and maintenance	Y	
Indoor and structural pest control	N	
Landscape / outdoor pesticide use	N	
Pools, spas, ponds, fountains, and other water features	N	
Restaurants, grocery stores, and other food service operations	N	
Trash containers	N	
Industrial processes	N	
Outdoor storage of equipment or materials	N	
Vehicle and equipment cleaning	N	
Vehicle and equipment repair and maintenance	N	
Fuel dispensing areas	N	•
Loading docks	N	
Drain or wash water from boiler drain lines, condensate drain	N	
lines, rooftop equipment, drainage sumps, and other sources		
Unauthorized non-storm water discharges	N	
Building and grounds maintenance	N	

Hydrologic Soil Group and Soil Type Information:

Enter information concerning the soil types within this DMA.

Soil Type Name	HSG Group (A, B, C, or D)
	TYPE C
	4

Pre-and Post-Development Project Hydrology Information:

Provide the following hydrology information for this DMA.

Pre-development Conditions:

0
0

Post-development Conditions:

Percent Impervious	55%
Average runoff coefficient for this DMA	.62
Peak flow rate (ft³/sec) for this DMA using the 2-year 24-hour design precipitation of 4.0 inches.	3.13 CFS

Selection of Site Design Measures:

Select one or more of the following Site Design Measures which will be incorporated into this DMA. List the associated area credit generated by the State's Post-Construction Calculator.

Site Design Measures	Area Credit
Stream Setbacks and Buffers	
Soil Quality Improvement and Maintenance	
Tree Planting and Preservation	
Rooftop and Impervious Area Disconnection	
Porous Pavement	
Green Roofs	
Vegetated Swales	1,575
Rain Barrels and Cisterns	

Post-Construction Calculator Information:

Enter the following data from the State's Post-Construction Calculator:

Pre-project Runoff Volume (ft³)	2,855
Post-project Runoff Volume (ft³)	3,556
Runoff Volume Reduction Credits (ft³)	2,194

Treatment Control Measures:

Indicate which Treatment Control Measures will be used for <u>this DMA</u>. Provide calculations and design drawings for the selected measures.

Treatment Control Measure	Design Volume Treated	Volume Treated as % of Post Site Design Measure Volume
VEGETATED INFILTRATION BASIN	1670	106.03

Variations and Exceptions:

Identify any applicable variations or exceptions for this DMA.

Condition	Allowed Variation	Applicable to this DMA? If so, explain.
Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project	May incorporate an impervious cutoff wall between the bioretention / infiltration facility and the structure or other geotechnical hazard	N/A
Facilities with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures	May incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a "flow-through planter")	N/A
Facilities located in areas of high groundwater, highly infiltrative soils or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible	May omit the underdrain	N/A
Facilities serving high-risk areas such as fueling stations, truck stops, auto repairs, and heavy industrial sites	Are required to provide additional treatment to address pollutants of concern prior to the flow reaching the infiltration facility	N/A

If infiltration is not feasible for this DMA, please provide an explanation of the infeasibility and a alternate non-infiltrating treatment control measure(s) that will be used in accordance with	
requirements in <u>Section 5.4.4</u> .	

Step 8 - Summary

Project name	Abernathy DMA #2
Climate station	REDDING AP
Saturated hydraulic conductivity	0.32 in/hr
Design Storm	0.91 inches

Method	LID BMP Types	Area Needed (square feet)	Area Avaliable (square feet)	Percent Accomplished	Volume Evaporated (acre-ft/year)	Volume Infiltrated (acre-ft/year)	Volume of Passing Through the Underdrain (acre-ft/year)	Volume Untreated (acre-ft/year)
Design Storm	<u>Vegetated Infiltration</u> <u>Basin</u>	1575	1670	106.03	-	-	-	-
	Total LID	BMP Area	1670	106.03	-	_	-	-
	Total Imper	vious Area	29285	0.00	-	-	-	-
		Totals	30955.00	106.03	-	-	-	-
< BACK								
Instruction	s +				Trach Coll Still and Art (Mill Coll Still			
Backgroun	od +				1			
CA Phase I	II LID Sizing Tool Meth	ods +				**************************************		and the same same same same same same same sam

Special Notes Regarding the Tables +

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California Phase II LID Sizing Tool - BMP Details

Summary

Project name Abernathy DMA #2 Climate station REDDING AP Saturated hydraulic conductivity 0.32 in/hr

Impervious area 29285 square feet LID area 1670 square feet Total area 30955 square feet

Percent Accomplished 106.03%

LID BMP Vegetated Infiltration Basin

Design Storm

Methodology User selected design storm is 0.91 inches

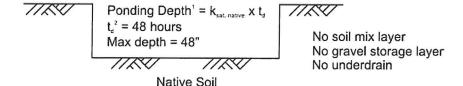
85th % design storm is 0.91 inches

Design storm volumetric runoff coefficient 0.892

Description

Vegetated infiltration basins are shallow, vegetated basins designed to provide storage and promote infiltration of runoff into the underlying native soils. The basins modeled by the CA Phase II LID Sizing Tool assume a surface storage depth dependent on the saturated conductivity of the underlying native soils.

LID BMP - Vegetated Infiltration Basin



Depths

LID Layer Depth (inches) Ponding 16

Notes

- 1. City of Sacramento et al. 2007, used for design of infiltration trench depth.
- 2. City of Sacramento et al. 2007, could use 72 hours but 48 hours provides a factor of safety for open-atmosphere ponding and vector issues.

Note: Assumes vertical slopes. If slopes are laid back, areas must be recalculated manually.

Methodology: Design Storm

The Design Storm Method is based on Section E.12.e.ii.c.1.a of the permit, which allows LID stormwater retention and treatment facilities that evapotranspire, infiltrate, harvest/use, and biotreat stormwater to be designed as follows (SWRCB 2013):

"The maximized capture storm water volume for the tributary area, on the basis of historical precipitation records, determined using the formula and volume capture coefficients in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998) pages 175-178 (that is, approximately the 85th percentile 24-hour storm runoff event)".

The area reported for the Design Storm Method is based on a default 85th percentile, 24-hour design storm as specified in the Phase II permit. Some areas of the state require use of a different design storm, such as the Central Coast Regional Water Quality Control Board (RWQCB) where the 95th percentile design storm is a common requirement. For such cases, the user my over-ride the default design storm (i.e., the 85th percentile storm) with an alternative precipitation depth in the "Select a design storm depth in inches" cell located below the table and clicking

Further details on this method are provided in the **Documentation Manual**.

Links

EPA Fact Sheet for Infiltration Basins

General

CASQA LID Portal

Central Coast LID Initiative

EPA Low Impact Development Site

Low Impact Development Urban Design Tools Website

EPA BMP Fact Sheet for Post-Construction Stormwater Management in New Development and Redevelopment

EPA BMP Fact Sheet for On-Lot Treatment

Contech LID Site Planner (LID Feasibility Screening Tool - coming soon...)

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1 A E		st-Const	ruction W	ater Balance C	alcul	ator	K U M	
3	User may make changes from any cell that is orange or brown in color (similar		(Step 1a) If you know the 85th percentile storm event for your location enter it in the box below	(Step 1b) If you can not answer 1a then select the county where the project is located (click on the cell to the right for drop-down): This will determine the average 85th percentile 24 hr. storm event for your site, which will appear under precipitation to left.	an not answer 1a then where the project is he cell to the right for s will determine the SHASTA sentile 24 ht. storm event h will appear under t. build like a more percise cation closest to your recgonize any of these is drop-down menu at			
4	to the cells to the immediate right). Cells in green are calculated for you.			(Step 1c) If you would like a more percise value select the location closest to your site. If you do not recgonize any of these locations, leave this drop-down menu at location. The average value for the County will be used.				
5	Project Information	n		Runoff Calculations				
6	Project Name:	ABI	ERNATHY	(Step 2) Indicate the Soil Type (dropdown menu to right):	Group C Soils		ration. Sandy clay loam. n rate 0.05 to 0.15 inch/hr when wet.	
7	Waste Discharge Identification (WDID):		N/A	(Step 3) Indicate the existing dominant non-built land Use Type (dropdown menu to right):	Open Space: grass cover <50%			
8	Date:	7/	(Step 4) Indicate the proposed dominant non-built land Use Type (dropdown menu to right):	Solid lawn, grass, pasture or meadow covering the open space				
9	Sub Drainage Area Name (from	0	ptional		Complete Either		a history	
10	map): Runoi	f Curve Numbers			Sq Ft	Acres	Acres	
11	Existing Pervious	Runoff Curve Number	86	(Step 5) Total Project Site Area:	55700	F223	1.28	
12	Proposed Development Pervious Runoff Curve Number		85	(Step 6) Sub-watershed Area:	55700		1.28	
13	D	esign Storm		Percent of total project :		100%		
	Based on the County you indicated above, we have included the 85			Tercon or total project.				
14	percentile average 24 hr event - P85 (in)^ for your area. The Amount of rainfall needed for	1.68	in					
15	runoff to occur (Existing runoff curve number -P from existing RCN (in)^)	0.33	În	(Step 7) Sub-watershed Conditions	Complete Either Calculated Acres			
16	P used for calculations (in) (the greater of the above two criteria)	1.68	ln	Sub-watershed Area (acres)	Sq Ft	Acres	1.28	
	^Available at www.cabmphandbooks.com	_		Existing Rooftop Impervious Coverage	0	0	0.00	
18				Existing Non-Rooftop Impervious Coverage	0	0	0.00	
				Proposed Rooftop Impervious Coverage		1000	The Section of the	
19				Proposed Non-Rooftop Impervious	14724	0	0.34	
0				Coverage	14561	0	0.33	
2				Credits	Acres		Square Feet	
4				Porous Pavement Tree Planting	0.00		0	
5 F	Pre-Project Runoff Volume (cu ft)	2,855	Cu.Ft.	Downspout Disconnection	0.00			
	Project-Related Runoff Volume	2.550		Downspout Disconnection	0.00		U	
	ncrease w/o credits (cu ft)	3,556	Cu.Ft.	Impervious Area Disconnection				
7 B				Green Roof Stream Buffer	0.00		0	
		a ta		Vegetated Swales	0.67	Tax 1	29,185	
	roject-Related Volume Increase rith Credits (cu ft)	2,194	Cu.Ft.	Subtotal	0.67 29,		29,185	
	Control of the Contro			Subtotal Runoff Volume Reduction Credit	1362 Cu. Ft.			
3	You need to do more imperv		o meet minimum	(Step 9) Impervious Volume Reduction Credits	Volume (cubic feet)			
900	rec	quirements		Rain Barrels/Cisterns	Cu. Ft.			
				Soil Quality	0 Cu. Ft.			
3		Subtotal Runoff Volume Reduction	0 Cu. Ft.					
,				Total Runoff Volume Reduction Credit	1,362	Cu. Ft.	(四)	
					1000	STATE OF		