Stormwater Management Report

RAM Oakland Park

Preliminary Area Calculations

Development - Areas

Description	Ar	Doroontono			
Description	(SF)	(Acres)	Percentage		
Residential	402,075	9.23	100%		
Impervious Area	292,558	6.72	73%		
Building	83,227	1.91	21%		
Pavement	209,331	4.81	52%		
Pervious Area	109,517	2.51	27%		
Open Space	109,517	2.51	27%		

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Water Quality Requirements - RESIDENTIAL

Post Development

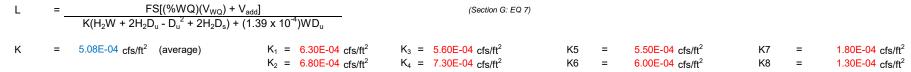
a) Criteria	1 = 1/2 inch		r the Project Sit	e:						
0.5 i	nch x	1-ft/12-in	x 9.23	_=	0.38	ac-ft				
			Project Area		Dry Pre-treatment	t				
					Volume					
WATER QUALITY	CALCIII ATI	ONS DED SEW	(acres)							
WATER QUALITY	OALOGEATI	ONO I EN OI W	MID.							
b) Per SF\	NMD. Water (Quality shall be	e provided to m	eet Critera	a 2 or 3, whichever i	s greater:				
,		-	he Project Site:		,	- 3				
	nch x	1-ft/12-in	x 9.23	=	0.77	ac-ft				
			Project	_		_				
			Area		WQ Treatment					
			(acres)		Volume					
		es Times the P	ercent Impervio							
Site Area for WQ:	9.23	_ -	(0.00	- +	0.00	_ +1	.91 +	0.00	= _	7.32
	Project Area	1	Lakes		Wetlands	R	oofs	Preserve	•	Site Area for WQ
	(acres)	١	(acres)		(acres)	(au	cres)	(acres)		ioi vvQ
	(40.00)	•	(43.33)		(40.00)	(4.	,	(45.55)		
Impervious Area fo	r WQ:									
7.32		2.51	= 4.81	acres						
Site Ar		Pervious	Impervious	;						
for W		Area	Area for							
(acre	s)	(acres)	WQ							
Percent Impervious	eness for W/O:									
	npervious Are		= 4.81	=	65.7%					
	Site Area fo		7.32	_	00 /0					
2.5-in x % Impervio	ous:									
2.5 Inc	hes x	65.7%	= 1.64	inches						
		Percent	Inches to							
		Impervious	be Treated							
Treated Volume:									_	
1-ft/12-i	n x 1.64 Inches t	X	(<u>9.23</u>		0.00		.00 -	0.00	= [1.26 ac-fl
	be Treat		Project Area		Lakes			Preserve		Treated Volume
	(inches		(acres)		(acres)	(ac	cres)	(acres)		volume
	(inches	,	(acres)							
SFWMD Required	Water Qualit	v Volume			1.2	6 ac-ft				

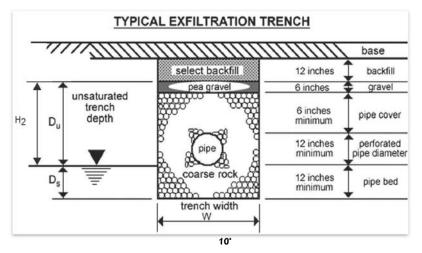
RAM Oakland Park

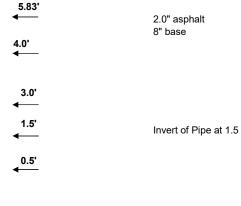
EXFILTRATION TRENCH CALCULATIONS (PER SFWMD ERP INFORMATION MANUAL, 2014, SECTION G) - RESIDENTIAL

CALCULATIONS

1 Length of Trench Required for Water Quality Volume







```
FS
                2
%WQ =
                50 %
              1.26 ac-ft
                               = 15.15 ac-in
                               = 0.00 ac-in
                 0 ac-ft
                18 inches
Pipe
EL<sub>TOP</sub> =
                4 feet, NAVD
                                 (Top of Trench Elevation)
                                  (Weir Elevation, No Bleeder)
                4 feet, NAVD
CE
               1.5 feet, NAVD
               0.5 feet, NAVD
W
                10 feet
D_{II}
                2.5 feet
D_{S}
                 1 feet
H_2
                2.5 feet
               693 feet
```