Drainage Calculations:			Client Name:	Saralinda Hooker
			Job #:	21-227
Rational Equation:	Q= C*I*A		Calculations by:	MCF
			Date:	3/31/2022
Q=Discharge Rate (cubic feet per second, c	fs)			ll
I= Rainfall (10 year 24 hour rain event = 3.2				
C= Coeficient of runoff				
C=0.2 Grass Lawn/Forest				
C=0.95 Paved Parking/Roof Areas				
Existing Site: (Disturbed Area)				
Total Area (ac)=	0.27	,		
Disturbed Area (sq.ft) =				
Acre (sq.ft) =				
Ex.Roof/Parking Area (sq. ft) =	8804.2			
Ex. Grass Area (sq. ft) =	39064.4	0.90 ac		
	0.47			
Q=				
C=				
I=				
A=	0.27	,		
Existing Grass Q =				
Existing Roof/Parking Q =				
Total Existing Q =	1.21	cfs		
Proposed Site:				
Total Area =	11679.3	β sq. ft		
	()			
	sq.ft			
Grass =				
Roof =	11203	3 0.26		
Crass O -	0.55	efe		
Grass Q =				
Roof Q =	0.79	CTS		
Total Site cfs =	1.34	ofo		
	1.34			
Total cfs Increase =	0.13	ofe		
Total CIS Increase -	0.13			
Increase Stormwater Runoff:				
Typical Storm Duration = 1 Hours				
Q =	0.13	cfs		
	cu ft / sec	(1 hours)*(3600 sec / hour)		
V=Q*D	54 107 500			
V-Q D	483.21	ou ft		
v -	403.21			
Volume Stored Above Chambers (Swale) =	520) cu ft		
Volume Stored In Chambers =	36.3	cu ft		
THEOL	FFO O	9 ou #		
Total Storage =	556.3	3 cu ft		