



- Design Drainage Criteria**
1. Paved areas and building areas - 100% runoff (Impervious)
 2. Natural and turf areas - 15% runoff (Pervious)
 3. Dry wells - storage of 2" rainfall (Less than 4,000 cf / area)

All leaders in similar roof drain areas are to be connected via buried ADS N-12 6" dia piping.
 Minimum separation distance between drainage pools or dry wells and any part of sanitary disposal system is 20 feet.

Storage Capacity Based On The Following :
 8 Ft. Diameter Pool = 42.2 cubic feet (cf) per vertical linear foot (vlf)
 10 Ft. Diameter Pool = 68.4 cf / vlf
 12 Ft. Diameter Pool = 100.9 cf / vlf

Roof Runoff										Surface Runoff												
Area Designation	Area (S.F.)	Impervious Area (S.F.)	C=1.0	Pervious Area (S.F.)	C=0.15	C Weighted	I (Ft)	Storage Vol. Req'd (C.F.)	Storage Vol. Provided (C.F.)	Leaching Pool Configuration	Area Designation	Area (S.F.)	Impervious Area (S.F.)	C=1.0	Pervious Area (S.F.)	C=0.15	C Weighted	I (Ft)	Storage Vol. Req'd (C.F.)	Storage Vol. Provided (C.F.)	Leaching Pool Configuration	
RA1	3,750	3,750	0	0	1.00	0.167	627	684	684	One (1) 10' Dia. pool @ 10' Eff. Depth	DA1	32,685	20,640	12,045	0.687	0.167	3,750	4,036	4,036	Four (4) 12' Dia. pools @ 10' Eff. Depth / Pool		
RA2	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth	DA2	16,565	10,378	6,187	0.683	0.167	1,990	2,018	2,018	Two (2) 12' Dia. pools @ 10' Eff. Depth / Pool		
RA3	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth	DA3	27,125	16,107	11,018	0.655	0.167	2,967	3,027	3,027	Three (3) 12' Dia. pools @ 10' Eff. Depth / Pool		
RA4	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth	DA4	28,472	12,014	16,458	0.509	0.167	2,420	2,422	2,422	Two (2) 12' Dia. pools @ 12' Eff. Depth / Pool		
RA5	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth	DA5	22,410	11,578	10,832	0.589	0.167	2,204	2,220	2,220	Two (2) 12' Dia. pools @ 11' Eff. Depth / Pool		
RA6	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth	DA6	13,765	10,420	3,345	0.793	0.167	1,823	2,018	2,018	Two (2) 12' Dia. pools @ 10' Eff. Depth / Pool		
RA7	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth	DA7	65,990	15,624	50,366	0.351	0.167	3,868	3,935	3,935	Six (6) 12' Dia. pools @ 6.5' Eff. Depth / Pool		
RA8	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth	Impervious areas include road, parking, driveway pavement and sidewalks.											
RA9	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA10	4,540	4,540	0	0	1.00	0.167	758	858	858	One (1) 12' Dia. pool @ 8.5' Eff. Depth												
RA11	4,540	4,540	0	0	1.00	0.167	758	858	858	One (1) 12' Dia. pool @ 8.5' Eff. Depth												
RA12	2,270	2,270	0	0	1.00	0.167	380	410	410	One (1) 10' Dia. pool @ 6' Eff. Depth												
RA13	2,270	2,270	0	0	1.00	0.167	380	410	410	One (1) 6' Dia. pool @ 10' Eff. Depth												
RA14	2,270	2,270	0	0	1.00	0.167	380	410	410	One (1) 10' Dia. pool @ 6' Eff. Depth												
RA15	2,270	2,270	0	0	1.00	0.167	380	410	410	One (1) 6' Dia. pool @ 10' Eff. Depth												
RA16	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA17	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA18	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA19	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA20	3,783	3,783	0	0	1.00	0.167	632	684	684	One (1) 10' Dia. pool @ 10' Eff. Depth												
RA21	3,783	3,783	0	0	1.00	0.167	632	684	684	One (1) 10' Dia. pool @ 10' Eff. Depth												
RA22	3,030	3,030	0	0	1.00	0.167	506	548	548	One (1) 10' Dia. pool @ 8' Eff. Depth												
RA23	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth												
RA24	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth												
RA25	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth												
RA26	2,270	2,270	0	0	1.00	0.167	380	380	380	One (1) 8' Dia. pool @ 9' Eff. Depth												
RA27	3,030	3,030	0	0	1.00	0.167	506	506	506	One (1) 8' Dia. pool @ 12' Eff. Depth												
RA28	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA29	4,540	4,540	0	0	1.00	0.167	758	821	821	One (1) 10' Dia. pool @ 12' Eff. Depth												
RA30	3,030	3,030	0	0	1.00	0.167	506	506	506	One (1) 8' Dia. pool @ 12' Eff. Depth												
RA31	3,030	3,030	0	0	1.00	0.167	506	506	506	One (1) 8' Dia. pool @ 12' Eff. Depth												
RA32	3,030	3,030	0	0	1.00	0.167	506	506	506	One (1) 8' Dia. pool @ 12' Eff. Depth												

SCTM : 504-17-03-07&08

REVNO	DATE	DESCRIPTION
DRAWING NAME		
Grading & Drainage Plan		
PROJECT		
The Preserve at Islandia Site Plan		
APPLICANT		
Islandia Partners LLC 399 West John Street Hicksville, New York 11801		
PREPARED BY		
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DRAWN BY	DESIGN BY	PROJECT NO.
MLW	MLW	ip101
CHECKED BY	DATE	DWG. NO.
LAR	NOV. 2007	SP5.0