

Stormwater Management Plan

Greco Independent & Assisted Living Minnetonka, MN

Prepared by Loucks October 16, 2023 Revised January 30, 2024

Loucks Project No. 23055A

Greco Independent & Assisted Living

Minnetonka, Minnesota

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Greco Independent & Assisted Living

Minnetonka, Minnesota

Stormwater Management Plan

Introduction

This stormwater management plan was created for the Greco Independent and Assisted Living apartments project located at 15407 & 15409 Wayzata Boulevard in Minnetonka, MN. The project site encompasses roughly 19.18 acres.

The project generally consists of constructing two new apartment buildings, parking lot, and associated utilities.

Included in this plan are calculations for the existing and proposed discharge of storm water from the site.

Methodology

City of Minnetonka and Minnehaha Creek Watershed District:

- 1. Rate Control Runoff rates for the proposed activity shall not exceed runoff rates for the 1, 10, & 100-year critical storm events.
- 2. Volume/Water Quality Control –Treat onsite the equivalent to 1.1" of runoff generated from new impervious. If filtration is used only 50% is received.
- 3. There is to be no increase in phosphorus from the existing conditions

Methodology

The stormwater calculations were made utilizing the stormwater-modeling program HydroCAD 10.00. Calculations were performed for Atlas-14 1-year, 2-year, 10-year, and 100-year rainfall events of 2.48 inches, 2.86 inches, 4.26 inches, and 7.32 inches respectively.

Existing Conditions

The existing site is a former healthcare and rehabilitation center. The existing site is 19.18 acres, for the storm report the areas used in this report are for the disturbed area of 6.973 acres. The existing site will be broken up into two drainage areas. Drainage area DA-1E drains off-site to the wetlands and drainage area DA-2E drains off-site to Clare Lane. There is no existing stormwater treatment onsite.

Proposed Conditions

The proposed site consists of constructing a multi-story apartment building with below ground parking garage, a assisted living single story building with parking lots, entrance drives, utilities, and stormwater management practices. To meet stormwater requirements for the site, two underground filtration storm vaults will be used. The site will be broken up into four drainage areas.

Drainage area DA-1P will drain to the west underground filtration storm vault. Drainage area DA-2P will drain to the east underground filtration storm vault. Drainage area DA-4P will drain off-site to the wetlands. Drainage area DA-3P will drain off-site to Clare Lane.

Rate Control

The rate control requirements are that peak rates shall not exceed existing rates for the 2, 10, and 100-year events.

Tables 1.1 below lists the existing areas and runoff rates

Tables 1.2 below lists the proposed areas and runoff rates

Table 1.1 – Existing Peak Runoff Rates

Existing Conditions							
			1-YR Event	2-YR Event	10-YR Event	100-YR Event	
Subcatch	Area	Impervious	Rate	Rate	Rate	Rate	
Subcatch	(SF)	(SF)	(cfs)	(cfs)	(cfs)	(cfs)	
DA-1E Wetland	258,158	108,763	10.43	12.82	22.29	42.84	
DA-2E Street	45,829	28,816	2.14	2.60	4.27	7.88	
TOTAL EXISTING	303,987	137,579	12.58	15.52	26.56	50.72	

Table 1.2 – Proposed Peak Runoff Rates

	Proposed Conditions							
			1-YR Event	2-YR Event	10-YR Event	100-YR Event		
Subcatch	Area (SF)	Impervious (SF)	Rate (cfs)	Rate (cfs)	Rate (cfs)	Rate (cfs)		
DA-1P West Vault	121,837	110,109	0.43	0.43	0.43	0.96		
DA-2P East Vault	74,475	63,305	0.21	0.21	0.21	2.15		
DA-4P	92,863	15,077	2.84	3.66	6.90	14.28		
Total WETLAND	289,175	188,491	3.28	4.31	7.55	16.00		
DA-3P Street	14,812	1,822	0.61	0.80	1.51	3.14		
TOTAL PROPOSED	303,987	190,313	3.54	4.66	8.18	17.24		

Volume Control

A water quality volume of 1.1" of runoff from the new impervious surfaces created by the project is treated. Required volume calculations are shown below:

Volume Required:	190,313 SF x 1.1" x 1'/12"	=	17,445 CF
Volume Provided:	West Vault (946.50-948.50)	=	26,745 CF
Volume Provided:	East Vault (945.50-947.50)	=	13,111 CF
Total Volume Provid	=	39,856 CF	

With filtration being used only 50% credit is allowed for filtration. Therefore 50% of 39,856 =19,928 CF which meets the requirement of 17,382 CF

Water Quality

For projects that have met the infiltration/filtration volume control requirements above, the pollutant removal requirements are considered to be met. The watershed requires that there is no net increase in phosphorus (TP) leaving the site from the existing site to the proposed site. The existing site TP is 7.238 lbs & the proposed TP is 4.152 lbs.

Best Management Practices

Best management practices (BMP's) will be implemented during construction per the project Stormwater Pollution Prevention Plan (C3-2 & C3-3). During construction, erosion control measures will include dust control, silt fencing, bio logs, inlet protection, and a temporary rock construction entrance. Permanent BMP's will include stormwater management systems, surface pavements, and turf establishment (vegetation) of disturbed areas.

Conclusion

The proposed Stormwater Management Plan for the project provides a solution for the conveyance of stormwater from the site. The underground filtration vaults capture the runoff before discharging into the existing wetlands. They will provide rate control for the development and meet water quality requirements through the proposed filtration.

Appendix A

Existing HydroCAD Report

EXISTING SITE Drainage to Wetlands **EXISTING TOTAL** Drainage to Street Link **Routing Diagram for Greco** Subcat Reach Prepared by {enter your company name here}, Printed 1/30/2024 HydroCAD® 10.10-6a s/n 02676 © 2020 HydroCAD Software Solutions LLC

MSE 24-hr 3 1-Year Rainfall=2.48"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1E: Drainage to

Runoff Area=258,158 sf 42.13% Impervious Runoff Depth=1.36"

Tc=15.0 min CN=88 Runoff=10.43 cfs 0.674 af

SubcatchmentDA-2E: Drainage to Street Runoff Area=45,829 sf 62.88% Impervious Runoff Depth=1.59"

Tc=15.0 min CN=91 Runoff=2.14 cfs 0.140 af

Reach ET: EXISTING TOTAL

Inflow=12.58 cfs 0.813 af Outflow=12.58 cfs 0.813 af

Total Runoff Area = 6.979 ac Runoff Volume = 0.813 af Average Runoff Depth = 1.40" 54.74% Pervious = 3.820 ac 45.26% Impervious = 3.158 ac

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Summary for Subcatchment DA-1E: Drainage to Wetlands

Runoff = 10.43 cfs @ 12.24 hrs, Volume= 0.674 af, Depth= 1.36"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

	Α	rea (sf)	CN							
	1	08,763	98	Paved park	ing, HSG D)				
_	1	49,395 80 >75% Grass cover, Good, HSG D								
258,158 88 Weighted Average										
	1	49,395		57.87% Pe	7.87% Pervious Area					
	1	08,763		42.13% Impervious Area						
	-		01		0 ''	D				
	Tc	Length	Slope	-	Capacity	Description				
	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)					
	15.0					Direct Entry.				

Summary for Subcatchment DA-2E: Drainage to Street

Runoff = 2.14 cfs @ 12.23 hrs, Volume= 0.140 af, Depth= 1.59"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

A	rea (sf)									
	28,816	98	Paved parking, HSG D							
	17,013 80 >75% Grass cover, Good, HSG D									
	45,829 91 Weighted Average									
	17,013 37.12% Pervious Area									
	28,816		62.88% lmp	pervious Ar	rea					
Tc	Length	Slope	-	Capacity	•					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		_				
15.0					Direct Entry,					

Summary for Reach ET: EXISTING TOTAL

Inflow Area = 6.979 ac, 45.26% Impervious, Inflow Depth = 1.40" for 1-Year event

Inflow = 12.58 cfs @ 12.24 hrs, Volume= 0.813 af

Outflow = 12.58 cfs @ 12.24 hrs, Volume= 0.813 af, Atten= 0%, Lag= 0.0 min

MSE 24-hr 3 2-Year Rainfall=2.86"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1E: Drainage to Runoff Area=258,158 sf 42.13% Impervious Runoff Depth=1.69"

Tc=15.0 min CN=88 Runoff=12.92 cfs 0.837 af

SubcatchmentDA-2E: Drainage to Street Runoff Area=45,829 sf 62.88% Impervious Runoff Depth=1.94"

Tc=15.0 min CN=91 Runoff=2.60 cfs 0.170 af

Reach ET: EXISTING TOTAL

Inflow=15.52 cfs 1.007 af Outflow=15.52 cfs 1.007 af

Total Runoff Area = 6.979 ac Runoff Volume = 1.007 af Average Runoff Depth = 1.73" 54.74% Pervious = 3.820 ac 45.26% Impervious = 3.158 ac

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Summary for Subcatchment DA-1E: Drainage to Wetlands

Runoff = 12.92 cfs @ 12.24 hrs, Volume= 0.837

0.837 af, Depth= 1.69"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

_	Aı	rea (sf)	CN	Description					
	1	08,763	98	Paved park	ing, HSG D	D			
	1	49,395	80 >75% Grass cover, Good, HSG D						
258,158 88 Weighted Average									
	1	49,395		57.87% Pervious Area					
108,763				42.13% lmp	rea				
	Тс	Length	Slope	e Velocity	Capacity	Description			
	(min)	(feet)	(ft/ft	•	(cfs)	•			
_	15.0					Direct Entry.			

Direct Entry

Summary for Subcatchment DA-2E: Drainage to Street

Runoff = 2.60 cfs @ 12.23 hrs, Volume=

0.170 af, Depth= 1.94"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

	Α	rea (sf)	, <u> </u>								
		28,816	,816 98 Paved parking, HSG D								
		17,013 80 >75% Grass cover, Good, HSG D									
	45,829 91 Weighted Average										
17,013 37.12% Pervious Area											
		28,816	(32.88% lmp	ervious Ar	rea					
	_		01	V 1 11	0 :	D 18					
	Tc	Length	Slope	-	Capacity	•					
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		_				
	15.0					Direct Entry,					

Summary for Reach ET: EXISTING TOTAL

Inflow Area = 6.979 ac, 45.26% Impervious, Inflow Depth = 1.73" for 2-Year event

Inflow = 15.52 cfs @ 12.24 hrs, Volume= 1.007 af

Outflow = 15.52 cfs @ 12.24 hrs, Volume= 1.007 af, Atten= 0%, Lag= 0.0 min

MSE 24-hr 3 10-Year Rainfall=4.26"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1E: Drainage to Runoff Area=258,158 sf 42.13% Impervious Runoff Depth=2.97"

Tc=15.0 min CN=88 Runoff=22.29 cfs 1.467 af

SubcatchmentDA-2E: Drainage to Street Runoff Area=45,829 sf 62.88% Impervious Runoff Depth=3.27"

Tc=15.0 min CN=91 Runoff=4.27 cfs 0.286 af

Reach ET: EXISTING TOTAL

Inflow=26.56 cfs 1.754 af Outflow=26.56 cfs 1.754 af

Total Runoff Area = 6.979 ac Runoff Volume = 1.754 af Average Runoff Depth = 3.02" 54.74% Pervious = 3.820 ac 45.26% Impervious = 3.158 ac

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Summary for Subcatchment DA-1E: Drainage to Wetlands

Runoff = 22.29 cfs @ 12.23 hrs, Volume=

1.467 af, Depth= 2.97"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

_	Aı	rea (sf)	CN	Description					
	1	08,763	98	Paved park	ing, HSG D	D			
	1	49,395	80 >75% Grass cover, Good, HSG D						
258,158 88 Weighted Average									
	1	49,395		57.87% Pervious Area					
108,763				42.13% lmp	rea				
	Тс	Length	Slope	e Velocity	Capacity	Description			
	(min)	(feet)	(ft/ft	•	(cfs)	•			
_	15.0					Direct Entry.			

Direct Entry

Summary for Subcatchment DA-2E: Drainage to Street

Runoff = 4.27 cfs @ 12.23 hrs, Volume=

0.286 af, Depth= 3.27"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

A	rea (sf)	sf) CN Description								
	28,816	316 98 Paved parking, HSG D								
	17,013 80 >75% Grass cover, Good, HSG D									
45,829 91 Weighted Average										
17,013 37.12% Pervious Area										
	28,816	I	62.88% Impervious Area							
Tc (min)	Length (feet)	Slope (ft/ft)	-	Capacity (cfs)	Description					
15.0					Direct Entry,					

Summary for Reach ET: EXISTING TOTAL

Inflow Area = 6.979 ac, 45.26% Impervious, Inflow Depth = 3.02" for 10-Year event

Inflow = 26.56 cfs @ 12.23 hrs, Volume= 1.754 af

Outflow = 26.56 cfs @ 12.23 hrs, Volume= 1.754 af, Atten= 0%, Lag= 0.0 min

MSE 24-hr 3 100-Year Rainfall=7.32"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1E: Drainage to

Runoff Area=258,158 sf 42.13% Impervious Runoff Depth=5.90"

Tc=15.0 min CN=88 Runoff=42.84 cfs 2.916 af

SubcatchmentDA-2E: Drainage to Street Runoff Area=45,829 sf 62.88% Impervious Runoff Depth=6.25"

Tc=15.0 min CN=91 Runoff=7.88 cfs 0.548 af

Reach ET: EXISTING TOTAL

Inflow=50.72 cfs 3.464 af Outflow=50.72 cfs 3.464 af

Total Runoff Area = 6.979 ac Runoff Volume = 3.464 af Average Runoff Depth = 5.96" 54.74% Pervious = 3.820 ac 45.26% Impervious = 3.158 ac

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Summary for Subcatchment DA-1E: Drainage to Wetlands

Runoff = 42.84 cfs @ 12.23 hrs, Volume=

2.916 af, Depth= 5.90"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

	Are	a (sf)	CN	Description							
	108	8,763	98	Paved park	aved parking, HSG D						
	149,395 80 >75% Grass cover, Good, HSG D										
258,158 88 Weighted Average											
149,395				57.87% Pervious Area							
108,763				42.13% Impervious Area							
(mi		₋ength (feet)	Slope (ft/ft	-	Capacity (cfs)	Description					
15	.0					Direct Entry.					

Summary for Subcatchment DA-2E: Drainage to Street

Runoff = 7.88 cfs @ 12.23 hrs, Volume=

0.548 af, Depth= 6.25"

Routed to Reach ET: EXISTING TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

	Α	rea (sf)	, <u> </u>								
		28,816	,816 98 Paved parking, HSG D								
		17,013 80 >75% Grass cover, Good, HSG D									
	45,829 91 Weighted Average										
17,013 37.12% Pervious Area											
		28,816	(32.88% lmp	ervious Ar	rea					
	_		01	V 1 11	0 :	D 18					
	Tc	Length	Slope	-	Capacity	•					
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		_				
	15.0					Direct Entry,					

Summary for Reach ET: EXISTING TOTAL

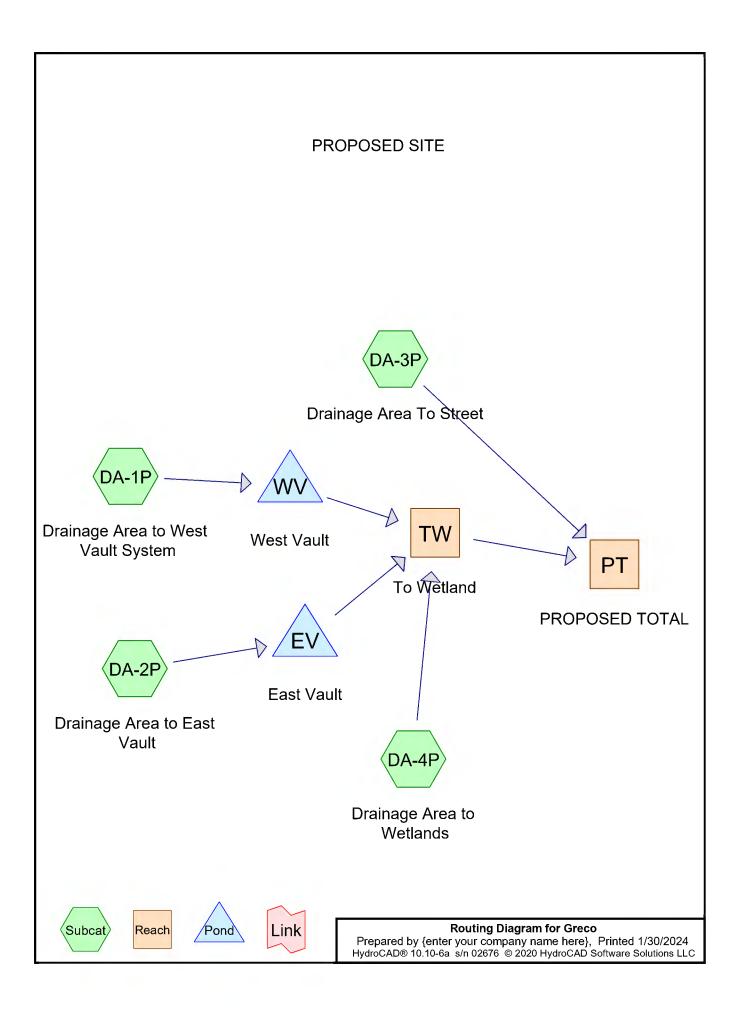
Inflow Area = 6.979 ac, 45.26% Impervious, Inflow Depth = 5.96" for 100-Year event

Inflow = 50.72 cfs @ 12.23 hrs, Volume= 3.464 af

Outflow = 50.72 cfs @ 12.23 hrs, Volume= 3.464 af, Atten= 0%, Lag= 0.0 min

Appendix B

Proposed HydroCAD Report



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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1P: Drainage Area to Runoff Area=121,837 sf 90.37% Impervious Runoff Depth=2.04"

Tc=5.0 min CN=96 Runoff=9.68 cfs 0.476 af

Subcatchment DA-2P: Drainage Area to Runoff Area=74,475 sf 85.00% Impervious Runoff Depth=1.94"

Tc=5.0 min CN=95 Runoff=5.74 cfs 0.277 af

SubcatchmentDA-3P: Drainage Area To Runoff Area=14,812 sf 12.30% Impervious Runoff Depth=0.98"

Tc=5.0 min CN=82 Runoff=0.61 cfs 0.028 af

SubcatchmentDA-4P: Drainage Area to Runoff Area=92,863 sf 16.24% Impervious Runoff Depth=1.04"

Tc=15.0 min CN=83 Runoff=2.84 cfs 0.185 af

Reach PT: PROPOSED TOTAL Inflow=3.54 cfs 0.966 af

Outflow=3.54 cfs 0.966 af

Reach TW: To Wetland Inflow=3.28 cfs 0.938 af

Outflow=3.28 cfs 0.938 af

Pond EV: East Vault Peak Elev=946.08' Storage=7,634 cf Inflow=5.74 cfs 0.277 af

Outflow=0.21 cfs 0.277 af

Pond WV: West Vault Peak Elev=946.20' Storage=13,254 cf Inflow=9.68 cfs 0.476 af

Outflow=0.43 cfs 0.476 af

Total Runoff Area = 6.979 ac Runoff Volume = 0.966 af Average Runoff Depth = 1.66" 37.39% Pervious = 2.610 ac 62.61% Impervious = 4.369 ac

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Summary for Subcatchment DA-1P: Drainage Area to West Vault System

Runoff = 9.68 cfs @ 12.11 hrs, Volume= 0.476 af, Depth= 2.04"

Routed to Pond WV: West Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

A	rea (sf)	CN I	Description					
1	10,109	98	Paved parking, HSG D					
	11,728	80 :	>75% Gras	s cover, Go	lood, HSG D			
1	21,837	96 '						
	11,728	9	9.63% Perv	ious Area				
1	10,109	9	90.37% Impervious Area					
т.	مائده مائد	Clana	Valaaitu	Consoitu	Description			
Tc	Length	Slope						
(min)	(feet)	(ft/ft)	(ft/sec) (cfs)					
5.0					Direct Entry,			

Summary for Subcatchment DA-2P: Drainage Area to East Vault

Runoff = 5.74 cfs @ 12.11 hrs, Volume= 0.277 af, Depth= 1.94"

Routed to Pond EV: East Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

Α	rea (sf)	CN	<u>Description</u>	<u>Description</u>						
	63,305	98	Paved parking, HSG D							
	11,170	80	>75% Gras	s cover, Go	ood, HSG D					
	74,475	95	Weighted Average							
	11,170		15.00% Pei	vious Area						
	63,305		85.00% Imp	ervious Ar	ea					
Тс	Length	Slope	-	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec) (cfs)							
5.0					Direct Entry,					

Summary for Subcatchment DA-3P: Drainage Area To Street

Runoff = 0.61 cfs @ 12.12 hrs, Volume= 0.028 af, Depth= 0.98" Routed to Reach PT : PROPOSED TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

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	Area (sf)	CN	Description						
	1,822	98	Paved parking, HSG D						
	12,990	80	>75% Ġras	s cover, Go	ood, HSG D				
	14,812	82	Weighted A	verage					
	12,990		87.70% Pei	rvious Area					
	1,822		12.30% lmp	pervious Ar	ea				
Тс	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	· · · · · · · · · · · · · · · · · · ·					
5.0					Direct Entry,				

Summary for Subcatchment DA-4P: Drainage Area to Wetlands

Runoff = 2.84 cfs @ 12.24 hrs, Volume= 0.185 af, Depth= 1.04"

Routed to Reach TW: To Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 1-Year Rainfall=2.48"

Area (sf) CN	Description	Description					
15,0	77 98	Paved park	Paved parking, HSG D					
77,78	86 80	>75% Gras	s cover, Go	Good, HSG D				
92,8	63 83	Weighted A	verage					
77,78	86	83.76% Pei	vious Area	a				
15,0	77	16.24% lmp	ervious Ar	rea				
Tc Len	•		Capacity	•				
(min) (fe	eet) (ft/	ft) (ft/sec)	(ft/sec) (cfs)					
15.0				Direct Entry,				

Summary for Reach PT: PROPOSED TOTAL

Inflow Area = 6.979 ac, 62.61% Impervious, Inflow Depth = 1.66" for 1-Year event

Inflow = 3.54 cfs @ 12.23 hrs, Volume= 0.966 af

Outflow = 3.54 cfs @ 12.23 hrs, Volume= 0.966 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Reach TW: To Wetland

Inflow Area = 6.639 ac, 65.18% Impervious, Inflow Depth = 1.70" for 1-Year event

Inflow = 3.28 cfs @ 12.24 hrs, Volume= 0.938 af

Outflow = 3.28 cfs @ 12.24 hrs, Volume= 0.938 af, Atten= 0%, Lag= 0.0 min

Routed to Reach PT: PROPOSED TOTAL

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Summary for Pond EV: East Vault

Inflow Area = 1.710 ac, 85.00% Impervious, Inflow Depth = 1.94" for 1-Year event

Inflow 5.74 cfs @ 12.11 hrs, Volume= 0.277 af

0.21 cfs @ 12.05 hrs, Volume= 0.21 cfs @ 12.05 hrs, Volume= Outflow 0.277 af, Atten= 96%, Lag= 0.0 min

Primary 0.277 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 946.08' @ 13.55 hrs Surf.Area= 18,423 sf Storage= 7,634 cf

Plug-Flow detention time= 365.2 min calculated for 0.277 af (100% of inflow)

Center-of-Mass det. time= 365.5 min (1,141.0 - 775.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	945.00'	5,387 cf	20.00'W x 217.00'L x 5.50'H Field A
			23,870 cf Overall - 10,401 cf Embedded = 13,469 cf x 40.0% Voids
#2A	945.50'	10,401 cf	CMP Round 54 x 33 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -14.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 2 = 572.6 cf Inside
#3	943.00'	2,580 cf	20.00'W x 215.00'L x 2.00'H Prismatoid
			8,600 cf Overall x 30.0% Voids
#4B	945.00'	6,031 cf	53.75'W x 91.00'L x 5.50'H Field B
			26,902 cf Overall - 11,825 cf Embedded = 15,077 cf x 40.0% Voids
#5B	945.50'	11,825 cf	CMP Round 54 x 32 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			32 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#6	943.00'	29 cf	53.75'W x 91.00'L x 2.00'H Prismatoid
			9,783 cf Overall x 0.3% Voids
		00.054.6	T () A () 1 0 (

36,254 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	943.00'	12.0" Round Culvert
			L= 257.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 943.00' / 942.00' S= 0.0039 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	943.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	947.50'	12.0" Round Culvert
			L= 8.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 947.50' / 947.47' S= 0.0037 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

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Primary OutFlow Max=0.21 cfs @ 12.05 hrs HW=945.14' (Free Discharge)

-1=Culvert (Passes 0.21 cfs of 2.98 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.21 cfs)

-3=Culvert (Controls 0.00 cfs)

Summary for Pond WV: West Vault

Inflow Area = 2.797 ac, 90.37% Impervious, Inflow Depth = 2.04" for 1-Year event

Inflow = 9.68 cfs @ 12.11 hrs, Volume= 0.476 af

Outflow = 0.43 cfs @ 12.35 hrs, Volume= 0.476 af, Atten= 96%, Lag= 14.2 min

Primary = 0.43 cfs @ 12.35 hrs, Volume= 0.476 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 946.20' @ 13.44 hrs Surf.Area= 37,578 sf Storage= 13,254 cf

Plug-Flow detention time= 468.7 min calculated for 0.476 af (100% of inflow) Center-of-Mass det. time= 468.4 min (1,238.4 - 770.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	946.00'	8,449 cf	53.75'W x 151.00'L x 5.00'H Field A
		·	40,581 cf Overall - 19,459 cf Embedded = 21,122 cf x 40.0% Voids
#2A	946.00'	19,459 cf	CMP Round 54 x 56 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			56 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#3	944.00'	4,870 cf	53.75'W x 151.00'L x 2.00'H Prismatoid
			16,233 cf Overall x 30.0% Voids
#4B	946.00'	3,062 cf	20.00'W x 122.50'L x 5.50'H Field B
			13,475 cf Overall - 5,821 cf Embedded = 7,654 cf x 40.0% Voids
#5B	946.50'	5,821 cf	CMP Round 54 x 18 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -4.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 1 = 286.3 cf Inside
#6	944.00'	1,470 cf	
	0.40.001		4,900 cf Overall x 30.0% Voids
#7C	946.00'	882 cf	40.25'W x 16.00'L x 5.50'H Field C
# 0.0	0.40 501	4 000 6	3,542 cf Overall - 1,336 cf Embedded = 2,206 cf x 40.0% Voids
#8C	946.50'	1,336 cf	CMP Round 54 x 6 Inside #7
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
110	044.00	000 (Row Length Adjustment= -6.00' x 15.90 sf x 6 rows
#9	944.00'	386 cf	16.00'W x 40.25'L x 2.00'H Prismatoid
#40D	0.40,001	0.705 (1,288 cf Overall x 30.0% Voids
#10D	946.00'	8,725 cf	53.75'W x 131.00'L x 5.50'H Field D
#11D	0.46 50	16 014 of	38,727 cf Overall - 16,914 cf Embedded = 21,813 cf x 40.0% Voids
#11D	946.50'	16,914 cf	CMP Round 54 x 48 Inside #10 Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Overall Size- 34.0 W X 34.0 F X 20.00 L

MSE 24-hr 3 1-Year Rainfall=2.48"

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48 Chambers in 8 Rows

51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside

#12 944.00' 4,870 cf **53.75'W x 151.00'L x 2.00'H Prismatoid**

16,233 cf Overall x 30.0% Voids

76,244 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard Storage Group C created with Chamber Wizard Storage Group D created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	944.00'	12.0" Round Culvert
	-		L= 59.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 944.00' / 943.00' S= 0.0169 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	944.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	948.50'	12.0" Round Culvert
			L= 10.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 948.50' / 948.45' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.35 hrs HW=946.01' (Free Discharge)

1=Culvert (Passes 0.43 cfs of 4.64 cfs potential flow)

—2=Exfiltration (Exfiltration Controls 0.43 cfs)

-3=Culvert (Controls 0.00 cfs)

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1P: Drainage Area to Runoff Area=121,837 sf 90.37% Impervious Runoff Depth=2.41"

Tc=5.0 min CN=96 Runoff=11.32 cfs 0.563 af

SubcatchmentDA-2P: Drainage Area to Runoff Area=74,475 sf 85.00% Impervious Runoff Depth=2.31"

Tc=5.0 min CN=95 Runoff=6.75 cfs 0.330 af

Subcatchment DA-3P: Drainage Area To Runoff Area=14,812 sf 12.30% Impervious Runoff Depth=1.27"

Tc=5.0 min CN=82 Runoff=0.80 cfs 0.036 af

SubcatchmentDA-4P: Drainage Area to Runoff Area=92,863 sf 16.24% Impervious Runoff Depth=1.33"

Tc=15.0 min CN=83 Runoff=3.66 cfs 0.237 af

Reach PT: PROPOSED TOTAL Inflow=4.66 cfs 1.165 af

Outflow=4.66 cfs 1.165 af

Reach TW: To Wetland Inflow=4.31 cfs 1.129 af

Outflow=4.31 cfs 1.129 af

Pond EV: East Vault Peak Elev=946.35' Storage=9,320 cf Inflow=6.75 cfs 0.330 af

Outflow=0.21 cfs 0.330 af

Pond WV: West Vault Peak Elev=946.50' Storage=15,963 cf Inflow=11.32 cfs 0.563 af

Outflow=0.43 cfs 0.563 af

Total Runoff Area = 6.979 ac Runoff Volume = 1.165 af Average Runoff Depth = 2.00" 37.39% Pervious = 2.610 ac 62.61% Impervious = 4.369 ac

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Summary for Subcatchment DA-1P: Drainage Area to West Vault System

Runoff 11.32 cfs @ 12.11 hrs, Volume= 0.563 af, Depth= 2.41"

Routed to Pond WV: West Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

	Α	rea (sf)	CN	Description						
	1	10,109	98	Paved parking, HSG D						
		11,728	80	>75% Gras	s cover, Go	ood, HSG D				
	1	21,837	96	6 Weighted Average						
		11,728		9.63% Perv	rious Ārea					
	1	10,109		90.37% lmp	pervious Ar	ea				
	-		01	N/ 1 10	0 ''	D ' '				
		Length	Slope							
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	5.0					Direct Entry.				

Summary for Subcatchment DA-2P: Drainage Area to East Vault

6.75 cfs @ 12.11 hrs, Volume=

0.330 af, Depth= 2.31"

Routed to Pond EV: East Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

Are	ea (sf)	CN	<u>Description</u>						
6	33,305	98	Paved parking, HSG D						
1	11,170	80	>75% Ġras	s cover, Go	Good, HSG D				
7	74,475	95	Weighted Average						
1	11,170		15.00% Peı	vious Area	a				
6	33,305		85.00% lmp	ervious Ar	rea				
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec) (cfs)						
5.0					Direct Entry,				

Summary for Subcatchment DA-3P: Drainage Area To Street

0.80 cfs @ 12.12 hrs, Volume= 0.036 af, Depth= 1.27" Runoff

Routed to Reach PT: PROPOSED TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

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	Area (sf)	CN	Description						
	1,822	98	Paved park	ing, HSG E	D				
	12,990	80	>75% Ġras	s cover, Go	Good, HSG D				
	14,812	82	Weighted A	verage					
	12,990		87.70% Pei	rvious Area	a				
	1,822		12.30% lmp	pervious Ar	rea				
To	Length	Slope	Velocity	Capacity	Description				
(min) (feet)	(ft/ft)	(ft/sec)						
5.0)				Direct Entry,				

Summary for Subcatchment DA-4P: Drainage Area to Wetlands

Runoff = 3.66 cfs @ 12.24 hrs, Volume= 0.237 af, Depth= 1.33"

Routed to Reach TW: To Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 2-Year Rainfall=2.86"

A	rea (sf)	CN	Description					
	15,077	98	Paved park	ing, HSG D	D			
	77,786	80	>75% Gras	s cover, Go	Good, HSG D			
	92,863	83	Weighted A	Weighted Average				
	77,786		83.76% Pe	rvious Area	a			
	15,077		16.24% lmլ	pervious Ar	rea			
Tc (min)	Length (feet)	Slope (ft/ft	-	Capacity (cfs)	·			
15.0					Direct Entry,			

Summary for Reach PT: PROPOSED TOTAL

Inflow Area = 6.979 ac, 62.61% Impervious, Inflow Depth = 2.00" for 2-Year event

Inflow = 4.66 cfs @ 12.23 hrs, Volume= 1.165 af

Outflow = 4.66 cfs @ 12.23 hrs, Volume= 1.165 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Reach TW: To Wetland

Inflow Area = 6.639 ac, 65.18% Impervious, Inflow Depth = 2.04" for 2-Year event

Inflow = 4.31 cfs @ 12.24 hrs, Volume= 1.129 af

Outflow = 4.31 cfs @ 12.24 hrs, Volume= 1.129 af, Atten= 0%, Lag= 0.0 min

Routed to Reach PT: PROPOSED TOTAL

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Summary for Pond EV: East Vault

Inflow Area = 1.710 ac, 85.00% Impervious, Inflow Depth = 2.31" for 2-Year event

Inflow 6.75 cfs @ 12.11 hrs, Volume= 0.330 af

0.21 cfs @ 12.00 hrs, Volume= 0.21 cfs @ 12.00 hrs, Volume= Outflow 0.330 af, Atten= 97%, Lag= 0.0 min

Primary 0.330 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 946.35' @ 13.60 hrs Surf.Area= 18,423 sf Storage= 9,320 cf

Plug-Flow detention time= 436.6 min calculated for 0.330 af (100% of inflow) Center-of-Mass det. time= 436.0 min (1,208.1 - 772.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	945.00'	5,387 cf	20.00'W x 217.00'L x 5.50'H Field A
		·	23,870 cf Overall - 10,401 cf Embedded = 13,469 cf x 40.0% Voids
#2A	945.50'	10,401 cf	CMP Round 54 x 33 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -14.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 2 = 572.6 cf Inside
#3	943.00'	2,580 cf	20.00'W x 215.00'L x 2.00'H Prismatoid
			8,600 cf Overall x 30.0% Voids
#4B	945.00'	6,031 cf	53.75'W x 91.00'L x 5.50'H Field B
			26,902 cf Overall - 11,825 cf Embedded = 15,077 cf x 40.0% Voids
#5B	945.50'	11,825 cf	CMP Round 54 x 32 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			32 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#6	943.00'	29 cf	53.75'W x 91.00'L x 2.00'H Prismatoid
			9,783 cf Overall x 0.3% Voids
	·	00.054.6	T () A () 1 0

36,254 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	943.00'	12.0" Round Culvert
			L= 257.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 943.00' / 942.00' S= 0.0039 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	943.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	947.50'	12.0" Round Culvert
			L= 8.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 947.50' / 947.47' S= 0.0037 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

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Primary OutFlow Max=0.21 cfs @ 12.00 hrs HW=945.14' (Free Discharge)

-1=Culvert (Passes 0.21 cfs of 2.98 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.21 cfs)

-3=Culvert (Controls 0.00 cfs)

Summary for Pond WV: West Vault

Inflow Area = 2.797 ac, 90.37% Impervious, Inflow Depth = 2.41" for 2-Year event

Inflow = 11.32 cfs @ 12.11 hrs, Volume= 0.563 af

Outflow = 0.43 cfs @ 12.20 hrs, Volume= 0.563 af, Atten= 96%, Lag= 5.2 min

Primary = 0.43 cfs @ 12.20 hrs, Volume= 0.563 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 946.50' @ 13.53 hrs Surf.Area= 37,578 sf Storage= 15,963 cf

Plug-Flow detention time= 482.3 min calculated for 0.562 af (100% of inflow)

Center-of-Mass det. time= 483.3 min (1,250.1 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	946.00'	8,449 cf	53.75'W x 151.00'L x 5.00'H Field A
			40,581 cf Overall - 19,459 cf Embedded = 21,122 cf x 40.0% Voids
#2A	946.00'	19,459 cf	CMP Round 54 x 56 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			56 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#3	944.00'	4,870 cf	53.75'W x 151.00'L x 2.00'H Prismatoid
			16,233 cf Overall x 30.0% Voids
#4B	946.00'	3,062 cf	20.00'W x 122.50'L x 5.50'H Field B
			13,475 cf Overall - 5,821 cf Embedded = 7,654 cf x 40.0% Voids
#5B	946.50'	5,821 cf	CMP Round 54 x 18 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -4.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 1 = 286.3 cf Inside
#6	944.00'	1,470 cf	20.00'W x 122.50'L x 2.00'H Prismatoid
" 70	0.40.001	000 (4,900 cf Overall x 30.0% Voids
#7C	946.00'	882 cf	40.25'W x 16.00'L x 5.50'H Field C
# 00	0.40 501	4.000 (3,542 cf Overall - 1,336 cf Embedded = 2,206 cf x 40.0% Voids
#8C	946.50'	1,336 cf	CMP Round 54 x 6 Inside #7
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
40	044.00!	206 -4	Row Length Adjustment= -6.00' x 15.90 sf x 6 rows
#9	944.00'	386 cf	16.00'W x 40.25'L x 2.00'H Prismatoid
#10D	946.00'	8,725 cf	1,288 cf Overall x 30.0% Voids 53.75'W x 131.00'L x 5.50'H Field D
#100	940.00	0,725 (1	38,727 cf Overall - 16,914 cf Embedded = 21,813 cf x 40.0% Voids
#11D	946.50'	16,914 cf	CMP Round 54 x 48 Inside #10
#110	340.50	10,314 0	Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00"L
			OVOIGII 0120- 07.0 VV X 04.0 11 X 20.00 L

MSE 24-hr 3 2-Year Rainfall=2.86"

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48 Chambers in 8 Rows

51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside

#12 944.00' 4,870 cf **53.75'W x 151.00'L x 2.00'H Prismatoid**

16,233 cf Overall x 30.0% Voids

76,244 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard Storage Group C created with Chamber Wizard Storage Group D created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	944.00'	12.0" Round Culvert
			L= 59.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 944.00' / 943.00' S= 0.0169 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	944.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	948.50'	12.0" Round Culvert
			L= 10.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 948.50' / 948.45' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.20 hrs HW=946.06' (Free Discharge)

1=Culvert (Passes 0.43 cfs of 4.72 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.43 cfs)

-3=Culvert (Controls 0.00 cfs)

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1P: Drainage Area to Runoff Area=121,837 sf 90.37% Impervious Runoff Depth=3.80"

Tc=5.0 min CN=96 Runoff=17.32 cfs 0.885 af

SubcatchmentDA-2P: Drainage Area to Runoff Area=74,475 sf 85.00% Impervious Runoff Depth=3.69"

Tc=5.0 min CN=95 Runoff=10.45 cfs 0.525 af

SubcatchmentDA-3P: Drainage Area To Runoff Area=14,812 sf 12.30% Impervious Runoff Depth=2.43"

Tc=5.0 min CN=82 Runoff=1.51 cfs 0.069 af

SubcatchmentDA-4P: Drainage Area to Runoff Area=92,863 sf 16.24% Impervious Runoff Depth=2.51"

Tc=15.0 min CN=83 Runoff=6.90 cfs 0.447 af

Reach PT: PROPOSED TOTAL Inflow=8.18 cfs 1.926 af

Outflow=8.18 cfs 1.926 af

Reach TW: To Wetland Inflow=7.55 cfs 1.857 af

Outflow=7.55 cfs 1.857 af

Pond EV: East Vault Peak Elev=947.29' Storage=16,027 cf Inflow=10.45 cfs 0.525 af

Outflow=0.21 cfs 0.525 af

Pond WV: West Vault Peak Elev=947.37' Storage=26,538 cf Inflow=17.32 cfs 0.885 af

Outflow=0.43 cfs 0.885 af

Total Runoff Area = 6.979 ac Runoff Volume = 1.926 af Average Runoff Depth = 3.31" 37.39% Pervious = 2.610 ac 62.61% Impervious = 4.369 ac

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Summary for Subcatchment DA-1P: Drainage Area to West Vault System

Runoff = 17.32 cfs @ 12.11 hrs, Volume= 0.885 af, Depth= 3.80"

Routed to Pond WV: West Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

_	Α	rea (sf)	CN	Description				
	1	10,109	98	Paved parking, HSG D				
		11,728	80	>75% Grass cover, Good, HSG D				
	1	21,837	96	96 Weighted Average				
		11,728		9.63% Perv	ious Ārea			
110,109 90.37% Impervious Area								
	То	Longth	Clana	Volosity	Consoity	Description		
	Tc	Length	Slope	•	Capacity	Description		
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
	5.0					Direct Entry.		

Summary for Subcatchment DA-2P: Drainage Area to East Vault

0.525 af, Depth= 3.69"

10.45 cfs @ 12.11 hrs, Volume=

Routed to Pond EV: East Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

	Α	rea (sf)	CN	Description			
		63,305	98	Paved parking, HSG D			
_		11,170	80	>75% Grass cover, Good, HSG D			
		74,475	,475 95 Weighted Average				
		11,170 15.00% Pervious Area					
		63,305	:	35.00% Imp	ervious Ar	rea	
	Tc	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	-	(cfs)	•	
1	5.0					Direct Entry,	

Summary for Subcatchment DA-3P: Drainage Area To Street

Runoff = 1.51 cfs @ 12.12 hrs, Volume= 0.069 af, Depth= 2.43"

Routed to Reach PT : PROPOSED TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

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	Area (sf)	CN	Description			
	1,822	98	Paved park	ing, HSG E	D	
	12,990	80	>75% Grass cover, Good, HSG D			
	14,812	82	2 Weighted Average			
	12,990		87.70% Pei	a		
	1,822		12.30% lmp	pervious Ar	rea	
To	Length	Slope	Velocity	Capacity	Description	
(min)) (feet)	(ft/ft)	(ft/sec)	(cfs)		
5.0)				Direct Entry,	

Summary for Subcatchment DA-4P: Drainage Area to Wetlands

Runoff = 6.90 cfs @ 12.24 hrs, Volume= 0.447 af, Depth= 2.51"

Routed to Reach TW: To Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 10-Year Rainfall=4.26"

A	rea (sf)	CN	Description			
	15,077	98	Paved parking, HSG D			
	77,786	80	>75% Grass cover, Good, HSG D			
	92,863	83 Weighted Average				
	77,786 83.76% Pervious Area			a		
	15,077	15,077 16.24% Impervious Area			rea	
_						
Тс	Length	Slope	-	Capacity	Description	
(min)	(feet)	(ft/ft)) (ft/sec)	(cfs)		
15.0					Direct Entry,	

Summary for Reach PT: PROPOSED TOTAL

Inflow Area = 6.979 ac, 62.61% Impervious, Inflow Depth = 3.31" for 10-Year event

Inflow = 8.18 cfs @ 12.22 hrs, Volume= 1.926 af

Outflow = 8.18 cfs @ 12.22 hrs, Volume= 1.926 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Reach TW: To Wetland

Inflow Area = 6.639 ac, 65.18% Impervious, Inflow Depth = 3.36" for 10-Year event

Inflow = 7.55 cfs @ 12.24 hrs, Volume= 1.857 af

Outflow = 7.55 cfs @ 12.24 hrs, Volume= 1.857 af, Atten= 0%, Lag= 0.0 min

Routed to Reach PT: PROPOSED TOTAL

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Summary for Pond EV: East Vault

Inflow Area = 1.710 ac, 85.00% Impervious, Inflow Depth = 3.69" for 10-Year event

Inflow = 10.45 cfs @ 12.11 hrs, Volume= 0.525 af

Outflow = 0.21 cfs @ 11.70 hrs, Volume= 0.525 af, Atten= 98%, Lag= 0.0 min

Primary = 0.21 cfs @ 11.70 hrs, Volume= 0.525 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 947.29' @ 15.04 hrs Surf.Area= 18,423 sf Storage= 16,027 cf

Plug-Flow detention time= 716.6 min calculated for 0.525 af (100% of inflow) Center-of-Mass det. time= 717.1 min (1,480.4 - 763.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	945.00'	5,387 cf	20.00'W x 217.00'L x 5.50'H Field A
			23,870 cf Overall - 10,401 cf Embedded = 13,469 cf x 40.0% Voids
#2A	945.50'	10,401 cf	CMP Round 54 x 33 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -14.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 2 = 572.6 cf Inside
#3	943.00'	2,580 cf	20.00'W x 215.00'L x 2.00'H Prismatoid
			8,600 cf Overall x 30.0% Voids
#4B	945.00'	6,031 cf	53.75'W x 91.00'L x 5.50'H Field B
			26,902 cf Overall - 11,825 cf Embedded = 15,077 cf x 40.0% Voids
#5B	945.50'	11,825 cf	CMP Round 54 x 32 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			32 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#6	943.00'	29 cf	
			9,783 cf Overall x 0.3% Voids

36,254 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	943.00'	12.0" Round Culvert
			L= 257.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 943.00' / 942.00' S= 0.0039 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	943.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	947.50'	12.0" Round Culvert
			L= 8.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 947.50' / 947.47' S= 0.0037 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

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Primary OutFlow Max=0.21 cfs @ 11.70 hrs HW=945.05' (Free Discharge)

—1=Culvert (Passes 0.21 cfs of 2.92 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.21 cfs)

-3=Culvert (Controls 0.00 cfs)

Summary for Pond WV: West Vault

Inflow Area = 2.797 ac, 90.37% Impervious, Inflow Depth = 3.80" for 10-Year event

Inflow = 17.32 cfs @ 12.11 hrs, Volume= 0.885 af

Outflow = 0.43 cfs @ 12.05 hrs, Volume= 0.885 af, Atten= 97%, Lag= 0.0 min

Primary = 0.43 cfs @ 12.05 hrs, Volume= 0.885 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 947.37' @ 14.09 hrs Surf.Area= 37,578 sf Storage= 26,538 cf

Plug-Flow detention time=651.1 min calculated for 0.885 af (100% of inflow) Center-of-Mass det. time=651.0 min (1,409.5 - 758.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	946.00'	8,449 cf	53.75'W x 151.00'L x 5.00'H Field A
			40,581 cf Overall - 19,459 cf Embedded = 21,122 cf x 40.0% Voids
#2A	946.00'	19,459 cf	CMP Round 54 x 56 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			56 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#3	944.00'	4,870 cf	53.75'W x 151.00'L x 2.00'H Prismatoid
			16,233 cf Overall x 30.0% Voids
#4B	946.00'	3,062 cf	20.00'W x 122.50'L x 5.50'H Field B
			13,475 cf Overall - 5,821 cf Embedded = 7,654 cf x 40.0% Voids
#5B	946.50'	5,821 cf	CMP Round 54 x 18 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -4.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 1 = 286.3 cf Inside
#6	944.00'	1,470 cf	20.00'W x 122.50'L x 2.00'H Prismatoid
" 70	0.40.001	200 6	4,900 cf Overall x 30.0% Voids
#7C	946.00'	882 cf	40.25'W x 16.00'L x 5.50'H Field C
""	0.40 501	4.000 (3,542 cf Overall - 1,336 cf Embedded = 2,206 cf x 40.0% Voids
#8C	946.50'	1,336 cf	CMP Round 54 x 6 Inside #7
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
40	044.001	000 -f	Row Length Adjustment= -6.00' x 15.90 sf x 6 rows
#9	944.00'	386 cf	16.00'W x 40.25'L x 2.00'H Prismatoid
#10D	046 00'	0 705 of	1,288 cf Overall x 30.0% Voids
#10D	946.00'	8,725 cf	53.75'W x 131.00'L x 5.50'H Field D
#11D	946.50'	16,914 cf	38,727 cf Overall - 16,914 cf Embedded = 21,813 cf x 40.0% Voids CMP Round 54 x 48 Inside #10
#110	340.30	10,814 0	Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00"L
			Overall 0126- 04.0 VV X 04.0 TT X 20.00 L

MSE 24-hr 3 10-Year Rainfall=4.26"

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48 Chambers in 8 Rows

51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside

#12 944.00' 4,870 cf **53.75'W x 151.00'L x 2.00'H Prismatoid**

16,233 cf Overall x 30.0% Voids

76,244 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard Storage Group C created with Chamber Wizard Storage Group D created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	944.00'	12.0" Round Culvert
	_		L= 59.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 944.00' / 943.00' S= 0.0169 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	944.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	948.50'	12.0" Round Culvert
			L= 10.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 948.50' / 948.45' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.05 hrs HW=946.05' (Free Discharge)

1=Culvert (Passes 0.43 cfs of 4.70 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.43 cfs)

-3=Culvert (Controls 0.00 cfs)

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentDA-1P: Drainage Area to Runoff Area=121,837 sf 90.37% Impervious Runoff Depth=6.84"

Tc=5.0 min CN=96 Runoff=30.27 cfs 1.595 af

SubcatchmentDA-2P: Drainage Area to Runoff Area=74,475 sf 85.00% Impervious Runoff Depth=6.72"

Tc=5.0 min CN=95 Runoff=18.40 cfs 0.958 af

Subcatchment DA-3P: Drainage Area To Runoff Area=14,812 sf 12.30% Impervious Runoff Depth=5.22"

Tc=5.0 min CN=82 Runoff=3.14 cfs 0.148 af

SubcatchmentDA-4P: Drainage Area to Runoff Area=92,863 sf 16.24% Impervious Runoff Depth=5.33"

Tc=15.0 min CN=83 Runoff=14.28 cfs 0.947 af

Reach PT: PROPOSED TOTAL Inflow=17.24 cfs 3.647 af

Outflow=17.24 cfs 3.647 af

Reach TW: To Wetland Inflow=16.00 cfs 3.499 af

Outflow=16.00 cfs 3.499 af

Pond EV: East Vault Peak Elev=948.46' Storage=24,692 cf Inflow=18.40 cfs 0.958 af

Outflow=2.15 cfs 0.958 af

Pond WV: West Vault Peak Elev=948.94' Storage=49,172 cf Inflow=30.27 cfs 1.595 af

Outflow=0.96 cfs 1.594 af

Total Runoff Area = 6.979 ac Runoff Volume = 3.648 af Average Runoff Depth = 6.27" 37.39% Pervious = 2.610 ac 62.61% Impervious = 4.369 ac

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Summary for Subcatchment DA-1P: Drainage Area to West Vault System

Runoff = 30.27 cfs @ 12.11 hrs, Volume= 1.595 af, Depth= 6.84"

Routed to Pond WV: West Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

_	Α	rea (sf)	CN	Description					
	1	10,109	98	98 Paved parking, HSG D					
_		11,728	80	0 >75% Grass cover, Good, HSG D					
	1	21,837	7 96 Weighted Average						
		11,728	,	9.63 [°] % Perv	rious Ārea				
	1	10,109	!	90.37% Imp	pervious Ar	ea			
	_		-		.	5			
	Тс	Length	Slope	-	Capacity	Description			
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	5.0					Direct Entry.			

Summary for Subcatchment DA-2P: Drainage Area to East Vault

Runoff = 18.40 cfs @ 12.11 hrs, Volume= 0.958 af, Depth= 6.72"

Routed to Pond EV: East Vault

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

	Α	rea (sf)	CN	<u>Description</u>							
		63,305	98	Paved park	aved parking, HSG D						
_		11,170	80	>75% Ġras	75% Grass cover, Good, HSG D						
		74,475 95 Weighted Average									
		11,170		15.00% Peı		a					
		63,305	:	35.00% Imp	ervious Ar	rea					
	Tc	Length	Slope	Velocity	Capacity	Description					
	(min)	(feet)	(ft/ft)	-	(cfs)	•					
1	5.0					Direct Entry,					

Summary for Subcatchment DA-3P: Drainage Area To Street

Runoff = 3.14 cfs @ 12.11 hrs, Volume= 0.148 af, Depth= 5.22" Routed to Reach PT : PROPOSED TOTAL

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

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	Α	rea (sf)	CN	Description	Description						
		1,822	98	Paved park	Paved parking, HSG D						
		12,990	80	>75% Grass cover, Good, HSG D							
		14,812	14,812 82 Weighted Average								
		12,990		87.70% Pei	rvious Area						
		1,822		12.30% lmp	pervious Ar	ea					
	Tc (min)	Length (feet)	Slope (ft/ft)	-	Capacity (cfs)	Description					
_		(ieet)	(11/11	(IL/Sec)	(CIS)						
	5.0					Direct Entry,					

Summary for Subcatchment DA-4P: Drainage Area to Wetlands

Runoff = 14.28 cfs @ 12.23 hrs, Volume= 0.947 af, Depth= 5.33"

Routed to Reach TW: To Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs MSE 24-hr 3 100-Year Rainfall=7.32"

A	rea (sf)	CN	Description					
	15,077	98	Paved park	Paved parking, HSG D				
	77,786	80	>75% Gras	>75% Grass cover, Good, HSG D				
	92,863 83 Weighted Average							
	77,786		83.76% Per	rvious Area				
	15,077		16.24% Imp	pervious Ar	ea			
_		-			5			
Tc	Length	Slope	-	Capacity	Description			
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)				
15.0					Direct Entry,			

Summary for Reach PT: PROPOSED TOTAL

Inflow Area = 6.979 ac, 62.61% Impervious, Inflow Depth = 6.27" for 100-Year event

Inflow = 17.24 cfs @ 12.23 hrs, Volume= 3.647 af

Outflow = 17.24 cfs @ 12.23 hrs, Volume= 3.647 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Reach TW: To Wetland

Inflow Area = 6.639 ac, 65.18% Impervious, Inflow Depth = 6.33" for 100-Year event

Inflow = 16.00 cfs @ 12.24 hrs, Volume= 3.499 af

Outflow = 16.00 cfs @ 12.24 hrs, Volume= 3.499 af, Atten= 0%, Lag= 0.0 min

Routed to Reach PT: PROPOSED TOTAL

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

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Summary for Pond EV: East Vault

Inflow Area = 1.710 ac, 85.00% Impervious, Inflow Depth = 6.72" for 100-Year event

Inflow 18.40 cfs @ 12.11 hrs, Volume= 0.958 af

2.15 cfs @ 12.55 hrs, Volume= 2.15 cfs @ 12.55 hrs, Volume= Outflow 0.958 af, Atten= 88%, Lag= 26.2 min

Primary = 0.958 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 948.46' @ 12.55 hrs Surf.Area= 18,423 sf Storage= 24,692 cf

Plug-Flow detention time= 599.1 min calculated for 0.958 af (100% of inflow) Center-of-Mass det. time= 598.8 min (1,351.7 - 752.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	945.00'	5,387 cf	20.00'W x 217.00'L x 5.50'H Field A
			23,870 cf Overall - 10,401 cf Embedded = 13,469 cf x 40.0% Voids
#2A	945.50'	10,401 cf	CMP Round 54 x 33 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -14.00' x 15.90 sf x 3 rows
			18.00' Header x 15.90 sf x 2 = 572.6 cf Inside
#3	943.00'	2,580 cf	20.00'W x 215.00'L x 2.00'H Prismatoid
			8,600 cf Overall x 30.0% Voids
#4B	945.00'	6,031 cf	53.75'W x 91.00'L x 5.50'H Field B
			26,902 cf Overall - 11,825 cf Embedded = 15,077 cf x 40.0% Voids
#5B	945.50'	11,825 cf	CMP Round 54 x 32 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			32 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#6	943.00'	29 cf	
			9,783 cf Overall x 0.3% Voids

36,254 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	943.00'	12.0" Round Culvert
			L= 257.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 943.00' / 942.00' S= 0.0039 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	943.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	947.50'	12.0" Round Culvert
			L= 8.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 947.50' / 947.47' S= 0.0037 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

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Primary OutFlow Max=2.15 cfs @ 12.55 hrs HW=948.46' (Free Discharge)

-1=Culvert (Passes 2.15 cfs of 4.76 cfs potential flow)

2=Exfiltration (Exfiltration Controls 0.21 cfs)

-3=Culvert (Barrel Controls 1.94 cfs @ 3.20 fps)

Summary for Pond WV: West Vault

Inflow Area = 2.797 ac, 90.37% Impervious, Inflow Depth = 6.84" for 100-Year event

Inflow = 30.27 cfs @ 12.11 hrs, Volume= 1.595 af

Outflow = 0.96 cfs @ 13.59 hrs, Volume= 1.594 af, Atten= 97%, Lag= 88.6 min

Primary = 0.96 cfs @ 13.59 hrs, Volume= 1.594 af

Routed to Reach TW: To Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Peak Elev= 948.94' @ 13.59 hrs Surf.Area= 37,578 sf Storage= 49,172 cf

Plug-Flow detention time= 943.4 min calculated for 1.593 af (100% of inflow)

Center-of-Mass det. time= 944.4 min (1,693.5 - 749.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	946.00'	8,449 cf	53.75'W x 151.00'L x 5.00'H Field A
			40,581 cf Overall - 19,459 cf Embedded = 21,122 cf x 40.0% Voids
#2A	946.00'	19,459 cf	CMP Round 54 x 56 Inside #1
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			56 Chambers in 8 Rows
			51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside
#3	944.00'	4,870 cf	53.75'W x 151.00'L x 2.00'H Prismatoid
			16,233 cf Overall x 30.0% Voids
#4B	946.00'	3,062 cf	20.00'W x 122.50'L x 5.50'H Field B
"5 D	0.40 501	5 004 6	13,475 cf Overall - 5,821 cf Embedded = 7,654 cf x 40.0% Voids
#5B	946.50'	5,821 cf	CMP Round 54 x 18 Inside #4
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= $-4.00'$ x 15.90 sf x 3 rows 18.00' Header x 15.90 sf x 1 = 286.3 cf Inside
#6	944.00'	1.470 cf	20.00'W x 122.50'L x 2.00'H Prismatoid
#0	344.00	1,470 01	4,900 cf Overall x 30.0% Voids
#7C	946.00'	882 cf	40.25'W x 16.00'L x 5.50'H Field C
,,, ,	0.10.00	002 01	3,542 cf Overall - 1,336 cf Embedded = 2,206 cf x 40.0% Voids
#8C	946.50'	1,336 cf	CMP Round 54 x 6 Inside #7
		.,	Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L
			Row Length Adjustment= -6.00' x 15.90 sf x 6 rows
#9	944.00'	386 cf	16.00'W x 40.25'L x 2.00'H Prismatoid
			1,288 cf Overall x 30.0% Voids
#10D	946.00'	8,725 cf	53.75'W x 131.00'L x 5.50'H Field D
			38,727 cf Overall - 16,914 cf Embedded = 21,813 cf x 40.0% Voids
#11D	946.50'	16,914 cf	
			Effective Size= 54.0"W x 54.0"H => 15.90 sf x 20.00'L = 318.1 cf
			Overall Size= 54.0"W x 54.0"H x 20.00'L

MSE 24-hr 3 100-Year Rainfall=7.32"

Greco

Prepared by {enter your company name here}

Printed 1/30/2024

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48 Chambers in 8 Rows

51.75' Header x 15.90 sf x 2 = 1,646.1 cf Inside

#12 944.00' 4,870 cf **53.75'W x 151.00'L x 2.00'H Prismatoid**

16,233 cf Overall x 30.0% Voids

76,244 cf Total Available Storage

Storage Group A created with Chamber Wizard Storage Group B created with Chamber Wizard Storage Group C created with Chamber Wizard Storage Group D created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	944.00'	12.0" Round Culvert
			L= 59.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 944.00' / 943.00' S= 0.0169 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf
#2	Device 1	944.00'	0.500 in/hr Exfiltration over Surface area
#3	Device 1	948.50'	12.0" Round Culvert
			L= 10.0' RCP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 948.50' / 948.45' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 13.59 hrs HW=948.94' (Free Discharge)

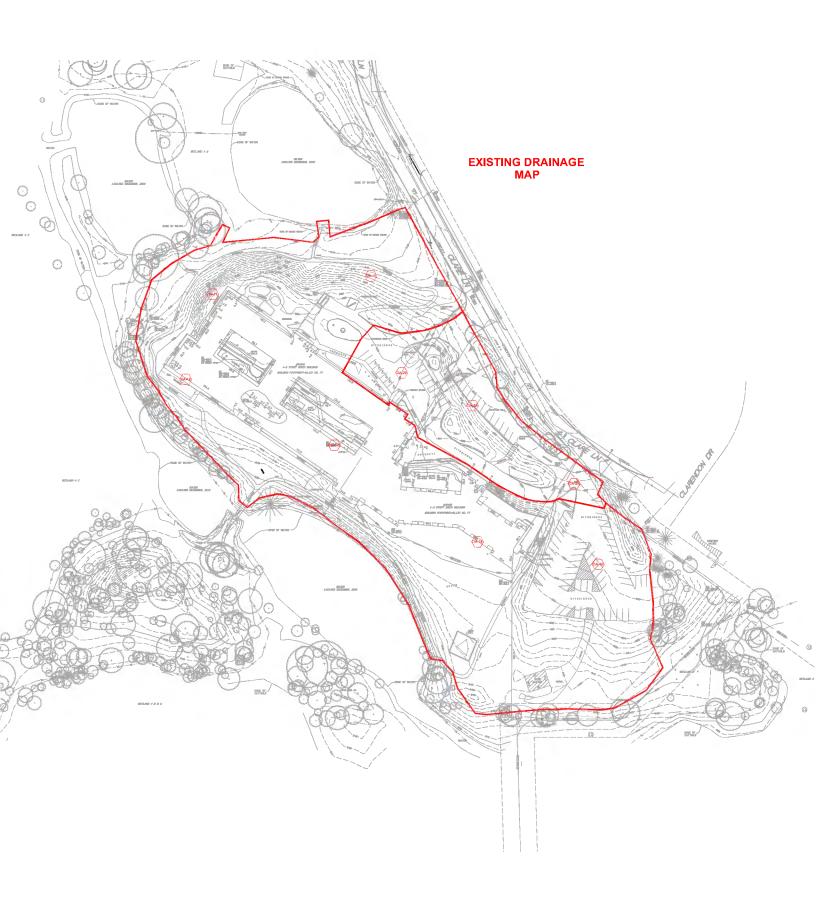
-1=Culvert (Passes 0.96 cfs of 7.65 cfs potential flow)

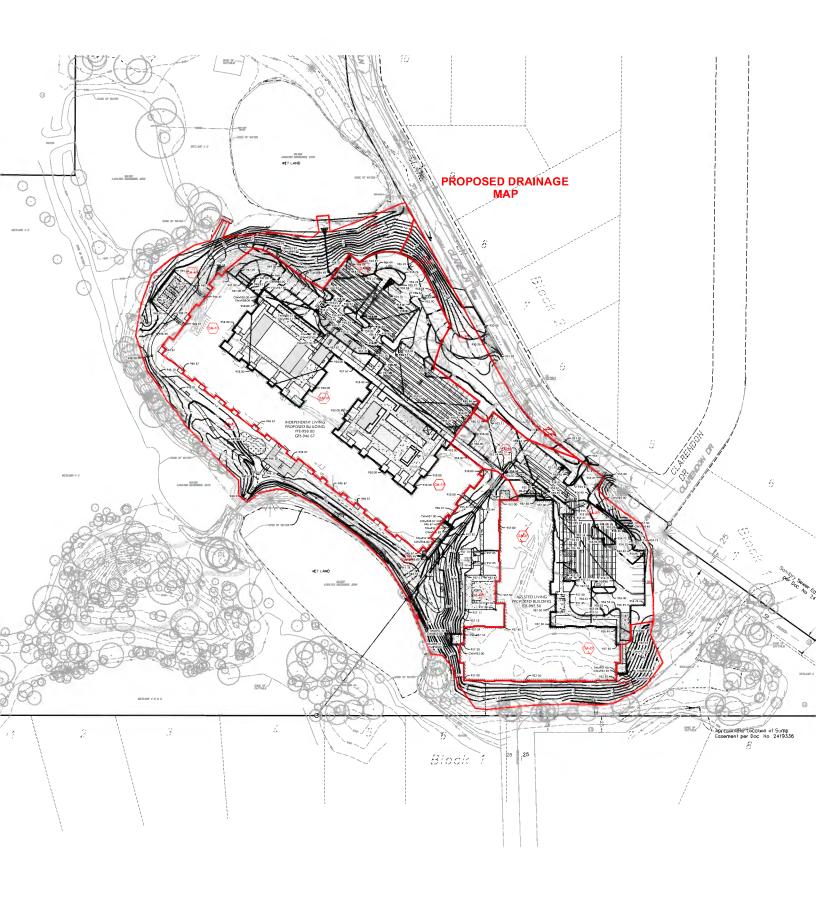
2=Exfiltration (Exfiltration Controls 0.43 cfs)

-3=Culvert (Barrel Controls 0.52 cfs @ 2.29 fps)

Figures

Existing Drainage Exhibit Proposed Drainage Exhibit West Vault Storage Data East Vault Storage Data Mids Existing Mids Proposed





Stage-Area-Storage for Pond WV: West Vault

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
944.00	19,327	0	944.52	19,327	3,015
944.01	19,327	58	944.53	19,327	3,073
944.02	19,327	116	944.54	19,327	3,131
944.03	19,327	174	944.55	19,327	3,189
944.04	19,327	232	944.56	19,327	3,247
944.05	19,327	290	944.57	19,327	3,305
944.06	19,327	348	944.58	19,327	3,363
944.07	19,327	406 464	944.59	19,327	3,421
944.08	19,327	464	944.60	19,327	3,479
944.09	19,327	522 500	944.61	19,327	3,537
944.10	19,327	580	944.62	19,327	3,595
944.11	19,327	638	944.63	19,327	3,653
944.12	19,327	696	944.64	19,327	3,711
944.13	19,327	754	944.65	19,327	3,769
944.14	19,327	812	944.66	19,327	3,827
944.15	19,327	870	944.67	19,327	3,885
944.16	19,327	928	944.68	19,327	3,943
944.17	19,327	986	944.69	19,327	4,001
944.18	19,327	1,044	944.70	19,327	4,059
944.19	19,327	1,102	944.71	19,327	4,117
944.20	19,327	1,160	944.72	19,327	4,175
944.21	19,327	1,218	944.73	19,327	4,233
944.22	19,327	1,276	944.74	19,327	4,290
944.23	19,327	1,334	944.75	19,327	4,348
944.24	19,327	1,392	944.76	19,327	4,406
944.25	19,327	1,449	944.77	19,327	4,464
944.26	19,327	1,507	944.78	19,327	4,522
944.27	19,327	1,565	944.79	19,327	4,580
944.28	19,327	1,623	944.80	19,327	4,638
944.29	19,327	1,681	944.81	19,327	4,696
944.30	19,327	1,739	944.82	19,327	4,754
944.31	19,327	1,797	944.83	19,327	4,812
944.32	19,327	1,855	944.84	19,327	4,870
944.33	19,327	1,913	944.85	19,327	4,928
944.34	19,327	1,971	944.86	19,327	4,986
944.35	19,327	2,029	944.87	19,327	5,044
944.36	19,327	2,087	944.88	19,327	5,102
944.37	19,327	2,145	944.89	19,327	5,160
944.38	19,327	2,203	944.90	19,327	5,218
944.39	19,327	2,261	944.91	19,327	5,276
944.40	19,327	2,319	944.92	19,327	5,334
944.41	19,327	2,377	944.93	19,327	5,392
944.42	19,327	2,435	944.94	19,327	5,450
944.43	19,327	2,493	944.95	19,327	5,508
944.44	19,327	2,551	944.96	19,327	5,566
944.45	19,327	2,609	944.97	19,327	5,624
944.46	19,327	2,667	944.98	19,327	5,682
944.47	19,327	2,725	944.99	19,327	5,740
944.48	19,327	2,783	945.00	19,327	5,798
944.49	19,327	2,841	945.01	19,327	5,856
944.50	19,327	2,899	945.02	19,327	5,914
944.51	19,327	2,957	945.03	19,327	5,972
			I	42,711 CF - 15,95	5 CF = 26,745 (

42,711 CF - 15,955 CF = 26,745 CF

(feet) (sq-ft) (cubic-feet) (feet) (sq-ft) (cubic-feet) 945.05 19,327 6,030 945.56 19,327 9,103 945.06 19,327 6,146 945.57 19,327 9,103 945.07 19,327 6,204 945.59 19,327 9,219 945.08 19,327 6,262 945.60 19,327 9,277 945.10 19,327 6,378 945.61 19,327 9,339 945.11 19,327 6,378 945.62 19,327 9,393 945.12 19,327 6,436 945.63 19,327 9,539 945.13 19,327 6,552 945.66 19,327 9,509 945.14 19,327 6,668 945.67 19,327 9,625 945.15 19,327 6,668 945.67 19,327 9,625 945.17 19,327 6,784 945.68 19,327 9,741 945.17 19,327 6,784 945.	Elevation	Surface	Storage	Elevation	Surface	Storage
945.06 19.327 6.088 945.57 19.327 9.103 945.06 19.327 6.146 945.59 19.327 9.161 945.07 19.327 6.204 945.59 19.327 9.219 945.08 19.327 6.262 945.60 19.327 9.277 945.09 19.327 6.320 945.61 19.327 9.335 945.10 19.327 6.320 945.61 19.327 9.335 945.11 19.327 6.436 945.62 19.327 9.393 945.12 19.327 6.436 945.63 19.327 9.509 945.13 19.327 6.552 945.65 19.327 9.509 945.14 19.327 6.660 945.66 19.327 9.509 945.15 19.327 6.660 945.66 19.327 9.625 945.16 19.327 6.660 945.66 19.327 9.625 945.17 19.327 6.660 945.66 19.327 9.625 945.18 19.327 6.660 945.67 19.327 9.625 945.19 19.327 6.726 945.68 19.327 9.741 945.17 19.327 6.726 945.69 19.327 9.741 945.19 19.327 6.726 945.69 19.327 9.799 945.18 19.327 6.842 945.70 19.327 9.857 945.19 19.327 6.900 945.71 19.327 9.972 945.21 19.327 7.016 945.70 19.327 9.974 945.20 19.327 7.016 945.70 19.327 9.974 945.21 19.327 7.701 945.74 19.327 10.030 945.22 19.327 7.701 945.74 19.327 10.030 945.24 19.327 7.731 945.75 19.327 10.30 945.25 19.327 7.731 945.75 19.327 10.204 945.26 19.327 7.761 945.80 19.327 10.204 945.26 19.327 7.761 945.76 19.327 10.204 945.27 19.327 7.761 19.327 10.30 945.29 19.327 7.761 19.327 10.204 945.28 19.327 7.761 19.327 10.30 945.29 19.327 7.761 19.327 10.30 945.29 19.327 7.761 19.327 10.204 945.26 19.327 7.761 19.327 10.204 945.26 19.327 7.765 19.327 10.320 945.27 19.327 7.765 19.327 10.320 945.29 19.327 7.765 19.45.80 19.327 10.784 945.30 19.327 7.785 19.45.80 19.327 10.784 945.30 19.327 7.785 19.45.80 19.327 10.784 945.31 19.327 7.785 19.45.80 19.327 10.784 945.33 19.327 7.785 19.45.80 19.327 10.784 945.34 19.327 7.785 19.45.80 19.327 10.784 945.35 19.327 7.785 19.45.80 19.327 10.784 945.36 19.327 7.785 19.45.80 19.327 10.784 945.36 19.327 8.861 19.327 10.30 945.37 19.327 8.861 19.327 10.784 945.38 19.327 7.765 19.45.80 19.327 10.784 945.39 19.327 8.861 19.327 10.784 945.40 19.327 8.861 19.327 10.784						-
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945.25		19,327	7,131		19,327	10,146
945.26 19,327 7,305 945.78 19,327 10,320 945.27 19,327 7,363 945.79 19,327 10,378 945.28 19,327 7,421 945.80 19,327 10,494 945.29 19,327 7,579 945.81 19,327 10,494 945.30 19,327 7,595 945.82 19,327 10,552 945.31 19,327 7,653 945.84 19,327 10,610 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,761 945.85 19,327 10,768 945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,784 945.37 19,327 7,885 945.88 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,904 945.38 19,327 7,943 945.89 </td <td>945.24</td> <td>19,327</td> <td>7,189</td> <td>945.76</td> <td>19,327</td> <td>10,204</td>	945.24	19,327	7,189	945.76	19,327	10,204
945.27 19,327 7,363 945.79 19,327 10,378 945.28 19,327 7,421 945.80 19,327 10,436 945.29 19,327 7,479 945.81 19,327 10,494 945.30 19,327 7,537 945.82 19,327 10,552 945.31 19,327 7,595 945.83 19,327 10,610 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,769 945.86 19,327 10,726 945.34 19,327 7,827 945.87 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,784 945.35 19,327 7,827 945.88 19,327 10,968 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,069 945.91 19,327 11,016 945.39 19,327 8,175 945.92 </td <td>945.25</td> <td></td> <td>7,247</td> <td>945.77</td> <td>19,327</td> <td>10,262</td>	945.25		7,247	945.77	19,327	10,262
945.28 19,327 7,421 945.80 19,327 10,436 945.29 19,327 7,479 945.81 19,327 10,494 945.30 19,327 7,537 945.82 19,327 10,552 945.31 19,327 7,595 945.83 19,327 10,668 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,769 945.86 19,327 10,726 945.34 19,327 7,827 945.87 19,327 10,842 945.35 19,327 7,885 945.88 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,885 945.88 19,327 10,958 945.38 19,327 7,845 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,175 945.92 </td <td>945.26</td> <td>19,327</td> <td>7,305</td> <td>945.78</td> <td>19,327</td> <td>10,320</td>	945.26	19,327	7,305	945.78	19,327	10,320
945.29 19,327 7,479 945.81 19,327 10,494 945.30 19,327 7,537 945.82 19,327 10,552 945.31 19,327 7,595 945.83 19,327 10,610 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,769 945.86 19,327 10,726 945.34 19,327 7,827 945.87 19,327 10,784 945.35 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,900 945.39 19,327 8,059 945.91 19,327 10,958 945.39 19,327 8,059 945.91 19,327 11,074 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,190 945.41 19,327 8,233 945.94 </td <td>945.27</td> <td>19,327</td> <td>7,363</td> <td>945.79</td> <td></td> <td>10,378</td>	945.27	19,327	7,363	945.79		10,378
945.30 19,327 7,537 945.82 19,327 10,552 945.31 19,327 7,595 945.83 19,327 10,610 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,711 945.85 19,327 10,726 945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,958 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,233 945.94 19,327 11,248 945.42 19,327 8,291 945.95 </td <td>945.28</td> <td>19,327</td> <td>7,421</td> <td>945.80</td> <td>19,327</td> <td>10,436</td>	945.28	19,327	7,421	945.80	19,327	10,436
945.31 19,327 7,595 945.83 19,327 10,610 945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,711 945.85 19,327 10,726 945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,885 945.87 19,327 10,802 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 10,958 945.38 19,327 8,059 945.91 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,349 945.95 </td <td>945.29</td> <td>19,327</td> <td>7,479</td> <td>945.81</td> <td>19,327</td> <td>10,494</td>	945.29	19,327	7,479	945.81	19,327	10,494
945.32 19,327 7,653 945.84 19,327 10,668 945.33 19,327 7,711 945.85 19,327 10,726 945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,074 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,175 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,306 945.44 19,327 8,349 945.95 19,327 11,364 945.45 19,327 8,407 945.96 </td <td>945.30</td> <td>19,327</td> <td>7,537</td> <td>945.82</td> <td>19,327</td> <td>10,552</td>	945.30	19,327	7,537	945.82	19,327	10,552
945.33 19,327 7,711 945.85 19,327 10,726 945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,132 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,364 945.44 19,327 8,349 945.96 19,327 11,422 945.46 19,327 8,465 945.98 </td <td>945.31</td> <td>19,327</td> <td>7,595</td> <td>945.83</td> <td>19,327</td> <td>10,610</td>	945.31	19,327	7,595	945.83	19,327	10,610
945.34 19,327 7,769 945.86 19,327 10,784 945.35 19,327 7,827 945.87 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,422 945.45 19,327 8,465 945.98 19,327 11,480 945.46 19,327 8,523 945.99 </td <td>945.32</td> <td>19,327</td> <td>7,653</td> <td>945.84</td> <td></td> <td>10,668</td>	945.32	19,327	7,653	945.84		10,668
945.35 19,327 7,827 945.87 19,327 10,842 945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,639 946.00 </td <td>945.33</td> <td>19,327</td> <td>7,711</td> <td>945.85</td> <td>19,327</td> <td>10,726</td>	945.33	19,327	7,711	945.85	19,327	10,726
945.36 19,327 7,885 945.88 19,327 10,900 945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.49 19,327 8,639 946.01 </td <td>945.34</td> <td>19,327</td> <td>7,769</td> <td>945.86</td> <td></td> <td>10,784</td>	945.34	19,327	7,769	945.86		10,784
945.37 19,327 7,943 945.89 19,327 10,958 945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 </td <td>945.35</td> <td>19,327</td> <td>7,827</td> <td>945.87</td> <td>19,327</td> <td>10,842</td>	945.35	19,327	7,827	945.87	19,327	10,842
945.38 19,327 8,001 945.90 19,327 11,016 945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.50 19,327 8,639 946.01 37,578 11,745 945.51 19,327 8,755 946.02 37,578 11,821 945.52 19,327 8,813	945.36	19,327	7,885	945.88	19,327	10,900
945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871	945.37	19,327	7,943	945.89	19,327	10,958
945.39 19,327 8,059 945.91 19,327 11,074 945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871	945.38	19,327	8,001	945.90	19,327	11,016
945.40 19,327 8,117 945.92 19,327 11,132 945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 </td <td>945.39</td> <td>19,327</td> <td></td> <td>945.91</td> <td>19,327</td> <td>11,074</td>	945.39	19,327		945.91	19,327	11,074
945.41 19,327 8,175 945.93 19,327 11,190 945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,813 946.04 37,578 11,821 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 </td <td>945.40</td> <td></td> <td></td> <td></td> <td></td> <td></td>	945.40					
945.42 19,327 8,233 945.94 19,327 11,248 945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064	945.41	19,327	8,175	945.93	19,327	11,190
945.43 19,327 8,291 945.95 19,327 11,306 945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064	945.42			945.94		
945.44 19,327 8,349 945.96 19,327 11,364 945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064	945.43					
945.45 19,327 8,407 945.97 19,327 11,422 945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						
945.46 19,327 8,465 945.98 19,327 11,480 945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064	945.45					
945.47 19,327 8,523 945.99 19,327 11,538 945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						
945.48 19,327 8,581 946.00 37,578 11,596 945.49 19,327 8,639 946.01 37,578 11,670 945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						
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945.50 19,327 8,697 946.02 37,578 11,745 945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						·
945.51 19,327 8,755 946.03 37,578 11,821 945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						
945.52 19,327 8,813 946.04 37,578 11,900 945.53 19,327 8,871 946.05 37,578 11,984 945.54 19,327 8,929 946.06 37,578 12,064						
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945.54 19,327 8,929 946.06 37,578 12,064						
2,722						
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
946.08	37,578	12,226	946.60	37,578	16,982
946.09	37,578	12,309	946.61	37,578	17,090
946.10	37,578	12,391	946.62	37,578	17,199
946.11	37,578	12,474	946.63	37,578	17,308
946.12	37,578	12,557	946.64	37,578	17,418
946.13	37,578	12,641	946.65	37,578	17,529
946.14	37,578	12,726	946.66	37,578	17,640
946.15	37,578	12,810	946.67	37,578	17,752
946.16	37,578	12,895	946.68	37,578	17,864
946.17	37,578	12,981	946.69	37,578	17,977
946.18	37,578	13,067	946.70	37,578	18,091
946.19	37,578	13,153	946.71	37,578	18,205
946.20	37,578	13,239	946.72	37,578	18,319
946.21	37,578	13,326	946.73	37,578	18,434
946.22	37,578	13,413	946.74	37,578	18,550
946.23	37,578	13,501	946.75	37,578	18,666
946.24	37,578	13,588	946.76	37,578	18,783
946.25	37,578	13,676	946.77	37,578	18,900
946.26	37,578	13,764	946.78	37,578	19,017
946.27	37,578	13,853	946.79	37,578	19,135
946.28	37,578	13,942	946.80	37,578	19,254
946.29	37,578	14,031	946.81	37,578	19,372
946.30	37,578	14,120	946.82	37,578	19,492
946.31	37,578	14,210	946.83	37,578	19,612
946.32	37,578	14,300	946.84	37,578	19,732
946.33	37,578	14,390	946.85	37,578	19,852
946.34	37,578	14,480	946.86	37,578	19,973
946.35	37,578	14,571	946.87	37,578	20,095
946.36	37,578	14,662	946.88	37,578	20,216
946.37	37,578	14,753	946.89	37,578	20,338
946.38	37,578	14,844	946.90	37,578	20,461
946.39	37,578	14,935	946.91	37,578	20,584
946.40	37,578	15,027	946.92	37,578	20,707
946.41	37,578	15,119	946.93	37,578	20,831
946.42	37,578	15,211	946.94	37,578	20,955
946.43	37,578	15,304	946.95	37,578	21,079
946.44	37,578	15,396	946.96	37,578	21,204
946.45	37,578	15,489	946.97	37,578	21,329
946.46	37,578	15,582	946.98	37,578	21,454
946.47	37,578	15,675	946.99	37,578	21,580
946.48	37,578	15,768	947.00	37,578	21,706
946.49	37,578	15,862	947.01	37,578	21,832
946.50	37,578	15,955	947.02	37,578	21,959
946.51	37,578	16,050	947.03	37,578	22,085
946.52	37,578	16,147	947.04	37,578	22,213
946.53	37,578	16,246	947.05	37,578	22,340
946.54	37,578	16,346	947.06	37,578	22,468
946.55	37,578	16,455	947.07	37,578	22,596
946.56	37,578	16,559	947.08	37,578	22,725
946.57	37,578	16,663	947.09	37,578	22,854
946.58	37,578	16,768	947.10	37,578	22,983
946.59	37,578	16,875	947.11	37,578	23,112
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
947.12	37,578	23,242	947.64	37,578	30,293
947.13	37,578	23,371	947.65	37,578	30,434
947.14	37,578	23,502	947.66	37,578	30,574
947.15	37,578	23,632	947.67	37,578	30,715
947.16	37,578	23,763	947.68	37,578	30,856
947.17	37,578	23,894	947.69	37,578	30,997
947.18	37,578	24,025	947.70	37,578	31,138
947.19	37,578	24,156	947.71	37,578	31,279
947.20	37,578	24,288	947.72	37,578	31,420
947.21	37,578	24,420	947.73	37,578	31,562
947.22	37,578	24,552	947.74	37,578	31,704
947.23	37,578	24,685	947.75	37,578	31,845
947.24	37,578	24,817	947.76	37,578	31,987
947.25	37,578	24,950	947.77	37,578	32,129
947.26	37,578	25,083	947.78	37,578	32,271
947.27	37,578	25,217	947.79	37,578	32,414
947.28	37,578	25,351	947.80	37,578	32,556
947.29	37,578	25,484	947.81	37,578	32,698
947.30	37,578	25,618	947.82	37,578	32,841
947.31	37,578	25,753	947.83	37,578	32,984
947.32	37,578	25,887	947.84	37,578	33,126
947.33	37,578	26,022	947.85	37,578	33,269
947.34	37,578	26,157	947.86	37,578	33,412
947.35	37,578	26,292	947.87	37,578	33,556
947.36	37,578	26,428	947.88	37,578	33,699
947.37	37,578	26,563	947.89	37,578	33,842
947.38	37,578	26,699	947.90	37,578	33,986
947.39	37,578	26,835	947.91	37,578	34,129
947.40	37,578	26,971	947.92	37,578	34,273
947.41	37,578	27,107	947.93	37,578	34,416
947.42	37,578	27,244	947.94	37,578	34,560
947.43	37,578	27,381 27,518	947.95 947.96	37,578 37,578	34,704
947.44 947.45	37,578 37,578	27,518 27,655	947.90	37,578 37,578	34,848 34,992
947.45 947.46	37,578 37,578	27,033 27,792	947.98	37,578 37,578	35,136
947.47	37,578	27,792 27,930	947.99	37,578	35,281
947.48	37,578	28,067	948.00	37,578	35,425
947.49	37,578	28,205	948.01	37,578	35,569
947.50	37,578	28,343	948.02	37,578	35,714
947.51	37,578	28,482	948.03	37,578	35,858
947.52	37,578	28,620	948.04	37,578	36,003
947.53	37,578	28,759	948.05	37,578	36,148
947.54	37,578	28,897	948.06	37,578	36,292
947.55	37,578	29,036	948.07	37,578	36,437
947.56	37,578	29,175	948.08	37,578	36,582
947.57	37,578	29,314	948.09	37,578	36,727
947.58	37,578	29,454	948.10	37,578	36,872
947.59	37,578	29,593	948.11	37,578	37,017
947.60	37,578	29,733	948.12	37,578	37,163
947.61	37,578	29,873	948.13	37,578	37,308
947.62	37,578	30,013	948.14	37,578	37,453
947.63	37,578	30,153	948.15	37,578	37,598
			l		

(feet)	Elevation	Surface	Storage	Elevation	Surface	Storage
948.17 37.578 37.589 948.69 37.578 45.493 948.19 37.578 38.035 948.70 37.578 45.639 948.19 37.578 38.035 948.71 37.578 45.639 948.20 37.578 38.266 948.72 37.578 45.931 948.21 37.578 38.472 948.73 37.578 46.077 948.22 37.578 38.618 948.74 37.578 46.224 948.23 37.578 38.618 948.74 37.578 46.224 948.23 37.578 38.909 948.76 37.578 46.516 948.26 37.578 39.955 948.77 37.578 46.616 948.27 37.578 39.201 948.78 37.578 46.602 948.28 37.578 39.347 948.79 37.578 46.808 948.29 37.578 39.493 948.81 37.578 46.954 948.29 37.578 39.931 948.81 37.578 47.100 948.29 37.578 39.931 948.81 37.578 47.391 948.31 37.578 39.931 948.83 37.578 47.391 948.32 37.578 40.077 948.84 37.578 47.683 38.33 37.578 40.077 948.84 37.578 47.683 38.34 37.578 40.954 948.86 37.578 47.683 38.35 37.578 40.954 948.89 37.578 47.828 948.34 37.578 40.954 948.89 37.578 48.100 948.35 37.578 40.954 948.89 37.578 47.683 948.36 37.578 40.954 948.89 37.578 47.683 948.37 37.578 40.954 948.89 37.578 47.828 948.38 37.578 40.954 948.89 37.578 49.843 37.578 40.954 948.89 37.578 49.843 38.37 578 40.954 948.89 37.578 49.843 38.37 578 40.954 948.89 37.578 49.843 39.838 37.578 40.954 948.89 37.578 48.110 948.39 37.578 40.954 948.89 37.578 48.110 948.39 37.578 40.954 948.99 37.578 48.110 948.39 37.578 40.954 948.99 37.578 48.110 948.39 37.578 40.954 948.99 37.578 48.919 948.31 37.578 41.840 948.91 37.578 48.919 948.34 37.578 41.840 948.91 37.578 49.919 948.34 37.578 41.840 948.91 37.578 49.919 948.34 37.578 41.840 948.91 37.578 49.919 948.35 37.578 41.940 948.91 37.578 49.919 948.36 37.578 41.940 948.91 37.578 49.919 948.37 37.578 41.840 948.91 37.578 49.919 948.39 37.578 41.940 948.91 37.578 49.919 948.40 37.578 41.940 948.91 37.578 49.919 948.41 37.578 41.940 948.91 37.578 49.919 948.44 37.578 41.940 948.91 37.578 49.919 948.45 37.578 41.940 949.91 37.578 50.007 948.46 37.578 41.940 949.91 37.578 50.007 948.47 37.578 41.940 949.91 37.578 50.007 948.48 37.578 41.940 949.91 37.578 50.959 948.60 37.578 43.940 949.91 37.578 50.959 948.60 37.578 43.940 949.91 37.578 50.959 948.66	(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
948.18 37,578 38,035 948.70 37,578 45,639 948.19 37,578 38,180 948.71 37,578 45,785 948.20 37,578 38,326 948.72 37,578 45,931 948.21 37,578 38,472 948.72 37,578 46,077 948.22 37,578 38,618 948.74 37,578 46,224 948.23 37,578 38,618 948.75 37,578 46,224 948.23 37,578 38,909 948.76 37,578 46,516 948.25 37,578 39,055 948.77 37,578 46,662 948.26 37,578 39,051 948.78 37,578 46,954 948.28 37,578 39,031 948.78 37,578 46,954 948.28 37,578 39,031 948.87 37,578 46,954 948.28 37,578 39,347 948.89 37,578 47,100 948.29 37,578 39,931 948.80 37,578 47,245 948.31 37,578 40,369 948.82 37,578 47,537 47,391 948.31 37,578 40,223 948.83 37,578 47,537 948.33 37,578 40,223 948.85 37,578 47,683 948.34 37,578 40,223 948.86 37,578 47,974 948.36 37,578 40,662 948.86 37,578 47,974 948.36 37,578 40,662 948.86 37,578 48,120 948.36 37,578 40,662 948.87 37,578 48,264 948.37 37,578 40,662 948.89 37,578 49,838 37,578 40,869 948.39 37,578 40,869 948.30 37,578 40,869 948.36 37,578 40,869 948.36 37,578 40,869 948.36 37,578 47,974 948.36 37,578 40,869 948.89 37,578 48,120 948.36 37,578 40,869 948.89 37,578 48,120 948.39 37,578 40,869 948.89 37,578 48,120 948.39 37,578 40,959 948.99 37,578 48,120 948.40 37,578 41,919 948.99 37,578 48,120 948.40 37,578 41,939 948.99 37,578 48,120 948.40 37,578 41,949 948.99 37,578 48,120 948.40 37,578 41,949 948.99 37,578 48,120 948.40 37,578 41,949 948.99 37,578 49,137 948.44 37,578 41,949 948.99 37,578 49,137 948.44 37,578 41,949 948.99 37,578 49,137 948.44 37,578 41,247 948.99 37,578 49,137 948.45 37,578 41,247 948.99 37,578 49,137 948.46 37,578 41,247 948.99 37,578 49,137 948.47 37,578 41,540 948.99 37,578 49,137 948.49 37,578 41,540 948.99 37,578 49,137 948.49 37,578 41,540 948.99 37,578 49,137 948.49 37,578 41,540 948.99 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.49 37,578 49,137 948.69 37,578 49,140 94,140 37,578 50,144 94,140 94,140 37,578 50,144 94	948.16	37,578	37,744	948.68	37,578	45,346
948.19 37,578 38,180 948.71 37,578 45,931 948.20 37,578 38,326 948.72 37,578 45,931 948.21 37,578 38,678 38,472 948.73 37,578 46,077 948.22 37,578 38,618 948.74 37,578 46,274 948.23 37,578 38,618 948.74 37,578 46,370 948.24 37,578 38,909 948.76 37,578 46,516 948.26 37,578 39,055 948.77 37,578 46,662 948.26 37,578 39,201 948.78 37,578 46,808 948.27 37,578 39,201 948.78 37,578 46,808 948.27 37,578 39,493 948.80 37,578 46,954 948.28 37,578 39,493 948.80 37,578 47,100 948.29 37,578 39,639 948.81 37,578 47,245 948.30 37,578 39,835 948.82 37,578 47,391 948.31 37,578 49,833 37,578 40,273 948.83 37,578 47,683 948.83 37,578 47,683 948.33 37,578 40,223 948.84 37,578 47,683 948.34 37,578 40,223 948.85 37,578 47,828 948.34 37,578 40,566 948.87 37,578 48,265 948.38 37,578 40,566 948.89 37,578 48,265 948.39 37,578 40,566 948.89 37,578 48,265 948.39 37,578 40,566 948.89 37,578 48,265 948.39 37,578 40,566 948.89 37,578 48,265 948.39 37,578 40,566 948.89 37,578 48,265 948.39 37,578 40,566 948.89 37,578 48,265 948.44 37,578 41,919 948.91 37,578 48,265 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 48,920 948.44 37,578 41,919 948.91 37,578 49,84.41 37,578 41,919 948.91 37,578 49,84.41 37,578 41,919 948.91 37,578 49,84.41 37,578 41,833 948.99 37,578 49,84.41 37,578 41,833 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,948.41 37,578 49,84.41 37,578 41,839 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,94.84 37,578 41,839 948.99 37,578 49,84.41 37,578 41,839 948.99 37,578 49,859 37,578 49,859 37,578 49,859 37,578 49,859 37,578 49,859 37,578 49,859 37,578 49,949 37,578 59,874 49,859 37,578 49,949 37,578 59,874 49,879 39,949 30 37,578 59,874 49,859 37,578 49,949 30 37,578 59,848 49,949 37,578 59,848 49,949 37,578 59,8	948.17	37,578	37,889	948.69	37,578	45,493
948.20	948.18	37,578	38,035	948.70	37,578	45,639
948.21 37,578 38,472 948.73 37,578 46,077 948.22 37,578 38,618 948.74 37,578 46,370 948.23 37,578 38,909 948.75 37,578 46,516 948.25 37,578 39,905 948.76 37,578 46,662 948.26 37,578 39,201 948.78 37,578 46,808 948.27 37,578 39,201 948.78 37,578 46,808 948.28 37,578 39,347 948.79 37,578 46,808 948.29 37,578 39,934 948.80 37,578 47,100 948.29 37,578 39,931 948.81 37,578 47,245 948.30 37,578 39,931 948.82 37,578 47,391 948.31 37,578 39,931 948.83 37,578 47,683 948.32 37,578 40,077 948.84 37,578 47,683 948.33 37,578 40,069 948.86 37,578 47,683 948.34 37,578 40,516 948.87 37,578 48,120 948.35 37,578 40,662 948.88 37,578 48,120 948.36 37,578 40,662 948.89 37,578 48,120 948.39 37,578 40,969 948.90 37,578 48,120 948.30 37,578 40,969 948.90 37,578 48,120 948.31 37,578 40,662 948.89 37,578 48,120 948.33 37,578 40,662 948.89 37,578 48,120 948.34 37,578 40,662 948.89 37,578 48,120 948.35 37,578 40,662 948.89 37,578 48,120 948.36 37,578 40,662 948.89 37,578 48,120 948.37 37,578 40,869 948.90 37,578 48,120 948.38 37,578 40,869 948.90 37,578 48,120 948.40 37,578 40,869 948.90 37,578 48,120 948.41 37,578 41,949 948.91 37,578 48,190 948.42 37,578 41,191 948.91 37,578 48,992 948.44 37,578 41,949 948.93 37,578 48,992 948.45 37,578 41,540 948.94 37,578 49,282 948.46 37,578 41,939 948.93 37,578 49,282 948.47 37,578 41,540 948.94 37,578 49,282 948.48 37,578 41,540 948.94 37,578 49,282 948.49 37,578 42,418 949.00 37,578 49,282 948.40 37,578 42,418 949.00 37,578 50,297 948.50 37,578 42,418 949.00 37,578 50,297 948.50 37,578 42,418 949.00 37,578 50,297 948.51 37,578 42,868 949.03 37,578 50,414 948.51 37,578 42,868 949.03 37,578 50,414 948.51 37,578 42,868 949.03 37,578 50,414 948.53 37,578 42,868 949.03 37,578 50,414 948.54 37,578 42,868 949.03 37,578 50,414 948.55 37,578 42,868 949.03 37,578 50,414 948.56 37,578 42,868 949.03 37,578 50,414 948.56 37,578 43,890 949.00 37,578 50,414 948.56 37,578 44,809 949.01 37,578 50,414 948.64 37,578 44,809 949.10 37,578 50,414 948.66 37,578 44,907 949.10 37,578 52,450	948.19	37,578	38,180	948.71	37,578	45,785
948.22 37,578 38,618 948.75 37,578 46,224 948.23 37,578 38,763 948.75 37,578 46,516 948.24 37,578 38,909 948.76 37,578 46,516 948.25 37,578 39,055 948.77 37,578 46,662 948.26 37,578 39,493 948.80 37,578 47,204 948.30 37,578 39,493 948.80 37,578 47,245 948.30 37,578 39,347 948.79 37,578 47,245 948.30 37,578 39,931 948.81 37,578 47,391 948.31 37,578 40,077 948.84 37,578 47,828 948.33 37,578 40,077 948.84 37,578 47,828 948.34 37,578 40,077 948.85 37,578 47,828 948.33 37,578 40,369 948.86 37,578 47,828 948.34 37,578 40,369 948.86 37,578 47,828 948.35 37,578 40,516 948.87 37,578 48,120 948.36 37,578 40,662 948.87 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.40 37,578 40,964 948.90 37,578 48,121 948.36 37,578 41,101 948.91 37,578 48,121 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 49,847 948.41 37,578 41,393 948.93 37,578 48,479 948.41 37,578 41,393 948.93 37,578 49,137 948.44 37,578 41,393 948.93 37,578 49,137 948.44 37,578 41,839 948.94 37,578 49,137 948.45 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.95 37,578 49,137 948.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,299 949.90 37,578 50,299 949.90 37,578 50,299 949.90 37	948.20	37,578	38,326	948.72	37,578	45,931
948.22 37,578 38,618 948.75 37,578 46,224 948.23 37,578 38,763 948.75 37,578 46,516 948.24 37,578 38,909 948.76 37,578 46,516 948.25 37,578 39,055 948.77 37,578 46,662 948.26 37,578 39,493 948.80 37,578 47,204 948.30 37,578 39,493 948.80 37,578 47,245 948.30 37,578 39,347 948.79 37,578 47,245 948.30 37,578 39,931 948.81 37,578 47,391 948.31 37,578 40,077 948.84 37,578 47,828 948.33 37,578 40,077 948.84 37,578 47,828 948.34 37,578 40,077 948.85 37,578 47,828 948.33 37,578 40,369 948.86 37,578 47,828 948.34 37,578 40,369 948.86 37,578 47,828 948.35 37,578 40,516 948.87 37,578 48,120 948.36 37,578 40,662 948.87 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.36 37,578 40,966 948.89 37,578 48,120 948.40 37,578 40,964 948.90 37,578 48,121 948.36 37,578 41,101 948.91 37,578 48,121 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 48,479 948.41 37,578 41,393 948.91 37,578 49,847 948.41 37,578 41,393 948.93 37,578 48,479 948.41 37,578 41,393 948.93 37,578 49,137 948.44 37,578 41,393 948.93 37,578 49,137 948.44 37,578 41,839 948.94 37,578 49,137 948.45 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.94 37,578 49,137 948.95 37,578 49,137 948.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,297 949.90 37,578 50,299 949.90 37,578 50,299 949.90 37,578 50,299 949.90 37	948.21			948.73		
948.24 37,578 38,909 948.76 37,578 46,516 948.25 37,578 39,055 948.77 37,578 46,662 948.26 37,578 39,347 948.79 37,578 46,808 948.27 37,578 39,347 948.79 37,578 46,954 948.28 37,578 39,493 948.80 37,578 47,100 948.29 37,578 39,639 948.81 37,578 47,245 948.30 37,578 39,785 948.82 37,578 47,391 948.31 37,578 39,931 948.83 37,578 47,391 948.32 37,578 40,077 948.84 37,578 47,683 948.33 37,578 40,023 948.85 37,578 47,828 948.34 37,578 40,662 948.86 37,578 47,974 948.35 37,578 40,662 948.87 37,578 48,120 948.36 37,578 40,662 948.88 37,578 48,120 948.38 37,578 40,954 948.90 37,578 48,110 948.38 37,578 40,954 948.90 37,578 48,110 948.38 37,578 41,101 948.91 37,578 48,556 948.39 37,578 41,101 948.91 37,578 48,992 948.40 37,578 41,104 948.91 37,578 48,992 948.41 37,578 41,104 948.91 37,578 48,992 948.42 37,578 41,540 948.92 37,578 48,992 948.43 37,578 41,540 948.95 37,578 49,282 948.44 37,578 41,540 948.95 37,578 49,282 948.44 37,578 41,540 948.95 37,578 49,282 948.44 37,578 41,540 948.95 37,578 49,282 948.44 37,578 41,540 948.95 37,578 49,282 948.45 37,578 41,540 948.99 37,578 49,282 948.46 37,578 41,939 948.99 37,578 49,282 948.47 37,578 41,540 948.99 37,578 49,282 948.48 37,578 41,540 948.99 37,578 49,282 948.49 37,578 42,215 948.99 37,578 49,282 948.40 37,578 42,255 948.99 37,578 49,282 948.41 37,578 42,255 948.99 37,578 49,273 948.43 37,578 42,265 949.01 37,578 50,297 948.49 37,578 42,265 949.01 37,578 50,297 948.50 37,578 43,500 949.05 37,578 50,297 948.50 37,578 43,500 949.05 37,578 50,297 948.50 37,578 43,500 949.06 37,578 50,441 948.51 37,578 43,500 949.06 37,578 50,441 948.52 37,578 43,500 949.06 37,578 50,441 948.53 37,578 43,883 949.00 37,578 50,391 948.56 37,578 44,468 949.09 37,578 51,601 948.60 37,578 44,468 949.11 37,578 51,601 948.61 37,578 44,661 949.16 37,578 52,600	948.22	37,578		948.74	37,578	
948.25	948.23	37,578	38,763	948.75	37,578	46,370
948.25	948.24	37,578	38,909	948.76		46,516
948.27 37,578 39,347 948,79 37,578 46,954 948.28 37,578 39,493 948,80 37,578 47,100 948.29 37,578 39,639 948,81 37,578 47,245 948.30 37,578 39,331 948,83 37,578 47,391 948.31 37,578 39,931 948,83 37,578 47,537 948.32 37,578 40,077 948,84 37,578 47,683 948.33 37,578 40,223 948,85 37,578 47,683 948.34 37,578 40,369 948,86 37,578 47,974 948.35 37,578 40,662 948,88 37,578 48,120 948.36 37,578 40,662 948,88 37,578 48,265 948.37 37,578 40,808 948,89 37,578 48,411 948.38 37,578 40,954 948,90 37,578 48,556 948.39 37,578 41,101 948,91 37,578 48,556 948.40 37,578 41,393 948,93 37,578 48,992 948.41 37,578 41,393 948,93 37,578 48,992 948.42 37,578 41,540 948,94 37,578 49,282 948.43 37,578 41,686 948,95 37,578 49,282 948.44 37,578 41,833 948,96 37,578 49,282 948.45 37,578 41,833 948,96 37,578 49,282 948.46 37,578 42,125 948,98 37,578 49,573 948.47 37,578 42,125 948,98 37,578 49,573 948.48 37,578 42,272 948,99 37,578 49,862 948.49 37,578 42,272 948,99 37,578 49,862 948.49 37,578 42,272 948,99 37,578 50,007 948.50 37,578 42,265 949,01 37,578 50,007 948.51 37,578 42,265 949,01 37,578 50,297 948.51 37,578 43,403 949,07 37,578 50,297 948.51 37,578 43,403 949,07 37,578 50,297 948.51 37,578 43,403 949,07 37,578 50,441 948.52 37,578 43,403 949,07 37,578 50,007 948.53 37,578 43,403 949,07 37,578 50,007 948.54 37,578 43,403 949,07 37,578 50,007 948.55 37,578 43,403 949,07 37,578 50,152 948.56 37,578 43,403 949,07 37,578 50,152 948.57 37,578 43,403 949,07 37,578 50,152 948.58 37,578 43,403 949,07 37,578 50,152 948.59 37,578 43,403 949,07 37,578 51,163 948.50 37,578 43,403 949,07 37,578 51,163 948.50 37,578 44,468 949,11 37,578 51,595 948.60 37,578 44,468 949,11 37,578 52,202 948.61 37,578 44,468 949,14 37,578 52,202 948.63 37,578 44,468 949,16 37,578 52,313 948.65 37,578 44,615 949,16 37,578 52,313 948.65 37,578 44,615 949,16 37,578 52,313	948.25	37,578	39,055	948.77	37,578	46,662
948.28	948.26	37,578	39,201	948.78	37,578	46,808
948.29	948.27	37,578	39,347	948.79	37,578	46,954
948.30	948.28	37,578	39,493	948.80	37,578	47,100
948.31 37,578 39,931 948.83 37,578 47,537 948.32 37,578 40,077 948.84 37,578 47,628 948.33 37,578 40,223 948.85 37,578 47,828 948.34 37,578 40,369 948.86 37,578 47,974 948.35 37,578 40,516 948.87 37,578 48,120 948.36 37,578 40,662 948.88 37,578 48,265 948.37 37,578 40,808 948.89 37,578 48,411 948.38 37,578 40,954 948.90 37,578 48,719 948.39 37,578 41,101 948.91 37,578 48,702 948.40 37,578 41,247 948.92 37,578 48,847 948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,540 948.94 37,578 49,137 948.43 37,578 41,833 948.96 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,282 948.45 37,578 41,833 948.96 37,578 49,282 948.46 37,578 42,2125 948.98 37,578 49,573 948.47 37,578 42,2125 948.99 37,578 49,573 948.49 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,418 949.00 37,578 50,152 948.50 37,578 42,418 949.00 37,578 50,297 948.51 37,578 42,418 949.00 37,578 50,297 948.51 37,578 42,418 949.00 37,578 50,297 948.53 37,578 43,404 949.04 37,578 50,297 948.54 37,578 43,443 949.07 37,578 50,297 948.55 37,578 43,443 949.07 37,578 50,297 948.56 37,578 43,443 949.07 37,578 50,441 948.59 37,578 43,443 949.07 37,578 50,441 948.50 37,578 43,433 949.07 37,578 50,441 948.51 37,578 43,433 949.07 37,578 50,441 948.52 37,578 43,433 949.07 37,578 50,441 948.53 37,578 43,433 949.07 37,578 50,441 948.54 37,578 43,433 949.07 37,578 50,441 948.55 37,578 43,443 949.07 37,578 50,586 948.56 37,578 43,443 949.07 37,578 51,163 948.56 37,578 43,443 949.07 37,578 51,163 948.59 37,578 43,443 949.07 37,578 51,163 948.50 37,578 43,443 949.07 37,578 51,163 948.51 37,578 43,443 949.07 37,578 51,163 948.52 37,578 43,443 949.07 37,578 51,163 948.53 37,578 43,443 949.07 37,578 51,163 948.54 37,578 43,443 949.07 37,578 51,163 948.56 37,578 44,468 949.11 37,578 51,292 948.60 37,578 44,468 949.11 37,578 52,202 948.60 37,578 44,615 949.15 37,578 52,170 948.61 37,578 44,615 949.16 37,578 52,202 948.63 37,578 44,615 949.18 37,578 52,202	948.29	37,578	39,639	948.81	37,578	47,245
948.32 37,578 40,077 948.84 37,578 47,683 948.33 37,578 40,233 948.85 37,578 47,828 948.34 37,578 40,369 948.86 37,578 47,974 948.35 37,578 40,516 948.87 37,578 48,120 948.36 37,578 40,662 948.88 37,578 48,120 948.37 37,578 40,808 948.89 37,578 48,411 948.38 37,578 40,954 948.90 37,578 48,556 948.39 37,578 41,101 948.91 37,578 48,872 948.41 37,578 41,393 948.93 37,578 48,922 948.42 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,686 948.94 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,282 948.44 37,578 41,979 948.97 37,578 49,573 948.46 37,578 42,125 948.98 37,578 49,573 948.48 37,578 42,272 948.99 37,578 49,673 948.49 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,007 948.50 37,578 43,004 949.04 37,578 50,297 948.51 37,578 43,150 949.05 37,578 50,297 948.52 37,578 43,443 949.00 37,578 50,297 948.51 37,578 43,443 949.00 37,578 50,414 948.52 37,578 43,150 949.05 37,578 50,586 948.53 37,578 43,443 949.07 37,578 50,730 948.54 37,578 43,443 949.07 37,578 50,730 948.56 37,578 43,443 949.07 37,578 50,730 948.56 37,578 43,443 949.07 37,578 50,730 948.56 37,578 43,443 949.07 37,578 50,730 948.56 37,578 43,443 949.07 37,578 51,163 948.56 37,578 44,615 949.13 37,578 51,639 948.66 37,578 44,615 949.16 37,578 52,313 948.66 37,578 44,615 949.18 37,578 52,600	948.30	37,578	39,785	948.82	37,578	47,391
948.33	948.31	37,578	39,931	948.83	37,578	47,537
948.34 37,578 40,369 948.86 37,578 47,974 948.36 37,578 40,516 948.87 37,578 48,120 948.36 37,578 40,662 948.88 37,578 48,265 948.37 37,578 40,808 948.89 37,578 48,411 948.38 37,578 40,954 948.90 37,578 48,556 948.39 37,578 41,101 948.91 37,578 48,702 948.40 37,578 41,393 948.93 37,578 48,847 948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,540 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,137 948.43 37,578 41,833 948.96 37,578 49,289 948.44 37,578 41,979 948.97 37,578 49,573 948.47 37,578 42,125	948.32	37,578	40,077	948.84	37,578	47,683
948.35	948.33	37,578	40,223	948.85	37,578	47,828
948.35	948.34	37,578	40,369	948.86	37,578	47,974
948.36	948.35			948.87		
948.37 37,578 40,808 948.89 37,578 48,411 948.38 37,578 40,954 948.90 37,578 48,556 948.39 37,578 41,101 948.91 37,578 48,702 948.40 37,578 41,247 948.92 37,578 48,847 948.41 37,578 41,393 948.93 37,578 49,137 948.43 37,578 41,640 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,282 948.45 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,833 948.96 37,578 49,428 948.47 37,578 42,125 948.98 37,578 49,573 948.47 37,578 42,215 948.99 37,578 49,622 948.49 37,578 42,218	948.36	37,578		948.88		
948.39 37,578 41,101 948.91 37,578 48,702 948.40 37,578 41,247 948.92 37,578 48,847 948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,686 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,282 948.45 37,578 41,979 948.97 37,578 49,428 948.46 37,578 42,125 948.98 37,578 49,573 948.47 37,578 42,125 948.99 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,717 948.48 37,578 42,418 949.00 37,578 50,007 948.50 37,578 42,565 949.01 37,578 50,152 948.51 37,578 42,858	948.37			948.89		
948.39 37,578 41,101 948.91 37,578 48,702 948.40 37,578 41,247 948.92 37,578 48,847 948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,686 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,282 948.45 37,578 41,979 948.97 37,578 49,428 948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,717 948.48 37,578 42,418 949.00 37,578 50,007 948.50 37,578 42,418 949.00 37,578 50,152 948.51 37,578 42,858	948.38		40,954	948.90		48,556
948.40 37,578 41,247 948.92 37,578 48,847 948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,540 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,979 948.97 37,578 49,428 948.46 37,578 42,125 948.98 37,578 49,573 948.47 37,578 42,125 948.99 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,622 948.48 37,578 42,565 949.01 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,858 949.03 37,578 50,297 948.51 37,578 43,004				948.91		
948.41 37,578 41,393 948.93 37,578 48,992 948.42 37,578 41,540 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,979 948.97 37,578 49,573 948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,858 949.03 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,41 948.52 37,578 43,004 949.04 37,578 50,429 948.53 37,578 43,150						48,847
948.42 37,578 41,540 948.94 37,578 49,137 948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,979 948.97 37,578 49,573 948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,41 948.52 37,578 43,004 949.04 37,578 50,441 948.53 37,578 43,150 949.05 37,578 50,874 948.54 37,578 43,433	948.41					
948.43 37,578 41,686 948.95 37,578 49,282 948.44 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,979 948.97 37,578 49,573 948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,662 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,565 949.01 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,297 948.52 37,578 43,004 949.04 37,578 50,441 948.52 37,578 43,150 949.05 37,578 50,586 948.54 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,443	948.42			948.94		
948.44 37,578 41,833 948.96 37,578 49,428 948.45 37,578 41,979 948.97 37,578 49,573 948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,297 948.52 37,578 43,004 949.04 37,578 50,441 948.52 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,443 949.07 37,578 51,019 948.55 37,578 43,433 949.07 37,578 51,163 948.57 37,578 43,883	948.43			948.95		
948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,297 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,736 949.08 37,578 51,163 948.57 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029	948.44			948.96		
948.46 37,578 42,125 948.98 37,578 49,717 948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,297 948.52 37,578 43,004 949.04 37,578 50,441 948.52 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,736 949.08 37,578 51,019 948.58 37,578 43,883 949.10 37,578 51,451 948.60 37,578 44,029	948.45	37,578	41,979	948.97	37,578	49,573
948.47 37,578 42,272 948.99 37,578 49,862 948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,441 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,439 949.07 37,578 51,019 948.58 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.60 37,578 44,029	948.46			948.98		
948.48 37,578 42,418 949.00 37,578 50,007 948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,441 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,883 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,468						
948.49 37,578 42,565 949.01 37,578 50,152 948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,441 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,462 949.12 37,578 51,882 948.61 37,578 44,468	948.48		42,418	949.00		
948.50 37,578 42,711 949.02 37,578 50,297 948.51 37,578 42,858 949.03 37,578 50,441 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,882 948.61 37,578 44,468 949.14 37,578 52,170 948.64 37,578 44,761	948.49				37,578	
948.51 37,578 42,858 949.03 37,578 50,441 948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,468 949.14 37,578 51,882 948.62 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761	948.50			949.02	37,578	50,297
948.52 37,578 43,004 949.04 37,578 50,586 948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,313 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 </td <td>948.51</td> <td>37,578</td> <td>42,858</td> <td>949.03</td> <td>37,578</td> <td>50,441</td>	948.51	37,578	42,858	949.03	37,578	50,441
948.53 37,578 43,150 949.05 37,578 50,730 948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,307 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,468 949.14 37,578 51,882 948.62 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.52			949.04		
948.54 37,578 43,297 949.06 37,578 50,874 948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,468 949.14 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,313 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.53		43,150	949.05		50,730
948.55 37,578 43,443 949.07 37,578 51,019 948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.54	37,578		949.06	37,578	50,874
948.56 37,578 43,590 949.08 37,578 51,163 948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.55			949.07	37,578	51,019
948.57 37,578 43,736 949.09 37,578 51,307 948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.56		43,590	949.08		
948.58 37,578 43,883 949.10 37,578 51,451 948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.57			949.09		
948.59 37,578 44,029 949.11 37,578 51,595 948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600				949.10		
948.60 37,578 44,175 949.12 37,578 51,739 948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600						
948.61 37,578 44,322 949.13 37,578 51,882 948.62 37,578 44,468 949.14 37,578 52,026 948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.60			949.12		
948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.61			949.13		
948.63 37,578 44,615 949.15 37,578 52,170 948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.62	37,578	44,468	949.14	37,578	52,026
948.64 37,578 44,761 949.16 37,578 52,313 948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600	948.63	37,578	44,615	949.15	37,578	
948.65 37,578 44,907 949.17 37,578 52,456 948.66 37,578 45,054 949.18 37,578 52,600						•
948.66 37,578 45,054 949.18 37,578 52,600						

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
949.20	37,578	52,886	949.72	37,578	60,135
949.21	37,578	53,029	949.73	37,578	60,270
949.22	37,578	53,172	949.74	37,578	60,404
949.23	37,578	53,314	949.75	37,578	60,538
949.24	37,578	53,457	949.76	37,578	60,673
949.25	37,578	53,599	949.77	37,578	60,806
949.26	37,578	53,742	949.78	37,578	60,940
949.27	37,578	53,884	949.79	37,578	61,074
949.28	37,578	54,026	949.80	37,578	61,207
949.29	37,578	54,168	949.81	37,578	61,340
949.30	37,578	54,310	949.82	37,578	61,472
949.31	37,578	54,452	949.83	37,578	61,605
949.32	37,578	54,594	949.84	37,578	61,737
949.33	37,578	54,735	949.85	37,578	61,869
949.34	37,578	54,877	949.86	37,578	62,001
949.35	37,578	55,018	949.87	37,578	62,132
949.36	37,578	55,159	949.88	37,578	62,264
949.37	37,578	55,300	949.89	37,578	62,395
949.38	37,578	55,441	949.90	37,578	62,525
949.39	37,578	55,582	949.91	37,578	62,656
949.40	37,578	55,722	949.92	37,578	62,786
949.41	37,578	55,863	949.93	37,578	62,916
949.42	37,578	56,003	949.94	37,578	63,046
949.43	37,578	56,143	949.95	37,578	63,175
949.44	37,578	56,283	949.96	37,578	63,304
949.45	37,578	56,423	949.97	37,578	63,433
949.46	37,578	56,563	949.98	37,578	63,561
949.47	37,578	56,702	949.99	37,578	63,690
949.48	37,578	56,842	950.00	37,578	63,817
949.49	37,578	56,981	950.01	37,578	63,945
949.50	37,578	57,120	950.02	37,578	64,072
949.51	37,578	57,259	950.03	37,578	64,199
949.52	37,578	57,398	950.04	37,578	64,326
949.53	37,578	57,536	950.05	37,578	64,452
949.54	37,578	57,675	950.06	37,578	64,578
949.55	37,578	57,813	950.07	37,578	64,704
949.56	37,578	57,951	950.08	37,578	64,829
949.57	37,578	58,089	950.09	37,578	64,954
949.58	37,578	58,227	950.10	37,578	65,079
949.59	37,578	58,364	950.11	37,578	65,203
949.60	37,578	58,501	950.12	37,578	65,327
949.61	37,578	58,639	950.13	37,578	65,451
949.62	37,578	58,776	950.14	37,578	65,574
949.63	37,578	58,912	950.15	37,578	65,697
949.64	37,578	59,049	950.16	37,578	65,820
949.65	37,578	59,185	950.17	37,578	65,942
949.66	37,578	59,322	950.18	37,578	66,063
949.67	37,578	59,458	950.19	37,578	66,185
949.68	37,578	59,593	950.20	37,578	66,306
949.69	37,578	59,729	950.21	37,578	66,426
949.70	37,578	59,865	950.22	37,578	66,546
949.71	37,578	60,000	950.23	37,578	66,666

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
950.24	37,578	66,785	950.76	37,578	72,168
950.25	37,578	66,904	950.77	37,578	72,259
950.26	37,578	67,022	950.78	37,578	72,350
950.27	37,578	67,140	950.79	37,578	72,440
950.28	37,578	67,258	950.80	37,578	72,530
950.29	37,578	67,375	950.81	37,578	72,620
950.30	37,578	67,491	950.82	37,578	72,709
950.31	37,578	67,607	950.83	37,578	72,798
950.32	37,578	67,723	950.84	37,578	72,886
950.33	37,578	67,838	950.85	37,578	72,974
950.34	37,578	67,952	950.86	37,578	73,061
950.35	37,578	68,066	950.87	37,578	73,149
950.36	37,578	68,179	950.88	37,578	73,235
950.37	37,578	68,292	950.89	37,578	73,321
950.38	37,578	68,404	950.90	37,578	73,406
950.39	37,578	68,516	950.91	37,578	73,491
950.40	37,578	68,626	950.92	37,578	73,575
950.41	37,578	68,737	950.93	37,578	73,658
950.42	37,578	68,846	950.94	37,578	73,741
950.43	37,578	68,955	950.95	37,578	73,823
950.44	37,578	69,063	950.96	37,578	73,904
950.45	37,578	69,170	950.97	37,578	73,984
950.46	37,578	69,276	950.98	37,578	74,061
950.47	37,578	69,381	950.99	37,578	74,137
950.48	37,578	69,484	951.00	37,578	74,217
950.49	37,578	69,585	951.01	37,578	74,258
950.50	37,578	69,689	951.02	37,578	74,298
950.51	37,578	69,788	951.03	37,578	74,339
950.52	37,578	69,886	951.04	37,578	74,379
950.53	37,578	69,984	951.05	37,578	74,420
950.54	37,578	70,082	951.06	37,578	74,460
950.55	37,578	70,180	951.07	37,578	74,501
950.56	37,578	70,277	951.08	37,578	74,541
950.57	37,578	70,375	951.09	37,578	74,582
950.58	37,578	70,471	951.10	37,578	74,622
950.59	37,578	70,568	951.11	37,578	74,663
950.60	37,578	70,665	951.12	37,578	74,703
950.61	37,578	70,761	951.13	37,578	74,744
950.62	37,578	70,857	951.14	37,578	74,785
950.63	37,578	70,952	951.15	37,578	74,825
950.64	37,578	71,047	951.16	37,578	74,866
950.65	37,578	71,142	951.17	37,578	74,906
950.66	37,578	71,237	951.18	37,578	74,947
950.67	37,578	71,332	951.19	37,578	74,987
950.68	37,578	71,426	951.20	37,578	75,028
950.69	37,578	71,520	951.21	37,578	75,068
950.70	37,578	71,613	951.22	37,578	75,109
950.71	37,578	71,706	951.23	37,578	75,149
950.72	37,578	71,799	951.24	37,578	75,190
950.73	37,578	71,892	951.25	37,578	75,230
950.74	37,578	71,984	951.26	37,578	75,271
950.75	37,578	72,076	951.27	37,578	75,312
555.15	2.,0.0	. 2,0.0	337.21	0.,0.0	7 0,0 12
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Florestion	Curfoss	Ctoross
Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)
951.28	37,578	75,352
951.29	37,578	75,393
951.30	37,578	75,433
951.31	37,578	75,474
951.32	37,578	75,514
951.33	37,578	75,555
951.34	37,578	75,595
951.35	37,578	75,636
951.36	37,578	75,676
951.37	37,578	75,717
951.38	37,578	75,758
951.39	37,578	75,798
951.40	37,578	75,839
951.41	37,578	75,879
951.42	37,578	75,920
951.43		•
	37,578 27,578	75,960 76,004
951.44	37,578	76,001
951.45	37,578	76,041
951.46	37,578	76,082
951.47	37,578	76,122
951.48	37,578	76,163
951.49	37,578	76,203
951.50	37,578	76,244
	,	,

Stage-Area-Storage for Pond EV: East Vault

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
943.00	9,191	0	943.52	9,191	678
943.01	9,191	13	943.53	9,191	691
943.02	9,191	26	943.54	9,191	705
943.03	9,191	39	943.55	9,191	718
943.04	9,191	52	943.56	9,191	731
943.05	9,191	65	943.57	9,191	744
943.06	9,191	78	943.58	9,191	757
943.07	9,191	91	943.59	9,191	770
943.08	9,191	104	943.60	9,191	783
943.09	9,191	117	943.61	9,191	796
943.10	9,191	130	943.62	9,191	809
943.11	9,191	144	943.63	9,191	822
943.12	9,191	157	943.64	9,191	835
943.13	9,191	170	943.65	9,191	848
943.14	9,191	183	943.66	9,191	861
943.15	9,191	196	943.67	9,191	874
943.16	9,191	209	943.68	9,191	887
943.17	9,191	222	943.69	9,191	900
943.18	9,191	235	943.70	9,191	913
943.19	9,191	248	943.71	9,191	926
943.20	9,191	261	943.72	9,191	939
943.21	9,191	274	943.73	9,191	952
943.22	9,191	287	943.74	9,191	965
943.23	9,191	300	943.75	9,191	979
943.24	9,191	313	943.76	9,191	992
943.25	9,191	326	943.77	9,191	1,005
943.26	9,191	339	943.78	9,191	1,018
943.27	9,191	352	943.79	9,191	1,031
943.28	9,191	365	943.80	9,191	1,044
943.29	9,191	378	943.81	9,191	1,057
943.30	9,191	391	943.82	9,191	1,070
943.31	9,191	404	943.83	9,191	1,083
943.32	9,191	417	943.84	9,191	1,096
943.33	9,191	431	943.85	9,191	1,109
943.34	9,191	444	943.86	9,191	1,122
943.35	9,191	457 470	943.87	9,191	1,135
943.36	9,191	470	943.88	9,191	1,148
943.37	9,191	483 406	943.89 943.90	9,191	1,161
943.38	9,191	496 500		9,191	1,174
943.39	9,191	509 522	943.91	9,191 9,191	1,187
943.40 943.41	9,191	535	943.92 943.93	9,191	1,200
943.42	9,191	548	943.94	9,191 9,191	1,213
943.43	9,191 9,191	561	943.95	9,191	1,226 1,239
943.44	9,191	574	943.96	9,191	1,252
943.45	9,191	587	943.97	9,191	1,266
943.46	9,191	600	943.98	9,191	1,279
943.47	9,191	613	943.99	9,191	1,279
943.48	9,191	626	944.00	9,191	1,305
943.49	9,191	639	944.01	9,191	1,318
943.50	9,191	652	944.02	9,191	1,331
943.51	9,191	665	944.03	9,191	1,344
0.0.01	3,101	000	0.1.00	5,101	1,017

17,567 CF - 4,456 CF = 13,111 CF

Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
944.04	9,191	1,357	944.56	9,191	2,035
944.05	9,191	1,370	944.57	9,191	2,048
944.06	9,191	1,383	944.58	9,191	2,061
944.07	9,191	1,396	944.59	9,191	2,074
944.08	9,191	1,409	944.60	9,191	2,087
944.09	9,191	1,422	944.61	9,191	2,101
944.10	9,191	1,435	944.62	9,191	2,114
944.11	9,191	1,448	944.63	9,191	2,127
944.12	9,191	1,461	944.64	9,191	2,140
944.13	9,191	1,474	944.65	9,191	2,153
944.14	9,191	1,487	944.66	9,191	2,166
944.15	9,191	1,500	944.67	9,191	2,179
944.16	9,191	1,513	944.68	9,191	2,192
944.17	9,191	1,526	944.69	9,191	2,205
944.18	9,191	1,540	944.70	9,191	2,218
944.19	9,191	1,553	944.71	9,191	2,231
944.20	9,191	1,566	944.72	9,191	2,244
944.21	9,191	1,579	944.73	9,191	2,257
944.22	9,191	1,592	944.74	9,191	2,270
944.23	9,191	1,605	944.75	9,191	2,283
944.24	9,191	1,618	944.76	9,191	2,296
944.25	9,191	1,631	944.77	9,191	2,309
944.26	9,191	1,644	944.78	9,191	2,322
944.27	9,191	1,657	944.79	9,191	2,335
944.28	9,191	1,670	944.80	9,191	2,348
944.29	9,191	1,683	944.81	9,191	2,361
944.30	9,191	1,696	944.82	9,191	2,375
944.31	9,191	1,709	944.83	9,191	2,388
944.32	9,191	1,722	944.84	9,191	2,401
944.33	9,191	1,735	944.85	9,191	2,414
944.34	9,191	1,748	944.86	9,191	2,427
944.35	9,191	1,761	944.87	9,191	2,440
944.36 944.37	9,191	1,774	944.88	9,191 9,191	2,453
	9,191	1,787 1,800	944.89		2,466
944.38 944.39	9,191		944.90 944.91	9,191	2,479
944.40	9,191 9,191	1,813 1,827	944.92	9,191 9,191	2,492 2,505
944.41	9,191	1,840	944.93	9,191	2,518
944.42	9,191	1,853	944.94	9,191	2,531
944.43	9,191	1,866	944.95	9,191	2,544
944.44	9,191	1,879	944.96	9,191	2,557
944.45	9,191	1,892	944.97	9,191	2,570
944.46	9,191	1,905	944.98	9,191	2,583
944.47	9,191	1,918	944.99	9,191	2,596
944.48	9,191	1,931	945.00	18,423	2,609
944.49	9,191	1,944	945.01	18,423	2,646
944.50	9,191	1,957	945.02	18,423	2,683
944.51	9,191	1,970	945.03	18,423	2,720
944.52	9,191	1,983	945.04	18,423	2,757
944.53	9,191	1,996	945.05	18,423	2,794
944.54	9,191	2,009	945.06	18,423	2,831
944.55	9,191	2,022	945.07	18,423	2,868
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
945.08	18,423	2,905	945.60	18,423	4,899
945.09	18,423	2,942	945.61	18,423	4,948
945.10	18,423	2,979	945.62	18,423	4,996
945.11	18,423	3,016	945.63	18,423	5,046
945.12	18,423	3,052	945.64	18,423	5,096
945.13	18,423	3,089	945.65	18,423	5,146
945.14	18,423	3,126	945.66	18,423	5,196
945.15	18,423	3,163	945.67	18,423	5,248
945.16	18,423	3,200	945.68	18,423	5,299
945.17	18,423	3,237	945.69	18,423	5,351
945.18	18,423	3,274	945.70	18,423	5,403
945.19	18,423	3,311	945.71	18,423	5,456
945.20	18,423	3,348	945.72	18,423	5,509
945.21	18,423	3,385	945.73	18,423	5,562
945.22	18,423	3,422	945.74	18,423	5,616
945.23	18,423	3,459	945.75	18,423	5,670
945.24	18,423	3,496	945.76	18,423	5,725
945.25	18,423	3,532	945.77	18,423	5,779
945.26	18,423	3,569	945.78	18,423	5,834
945.27	18,423	3,606	945.79	18,423	5,890
945.28	18,423	3,643	945.80	18,423	5,945
945.29	18,423	3,680	945.81	18,423	6,001
945.30	18,423	3,717	945.82	18,423	6,057
945.31	18,423	3,754	945.83	18,423	6,114
945.32	18,423	3,791	945.84	18,423	6,170
945.33	18,423	3,828	945.85	18,423	6,227
945.34	18,423	3,865	945.86	18,423	6,285
945.35	18,423	3,902	945.87	18,423	6,342
945.36	18,423	3,939	945.88	18,423	6,400
945.37	18,423	3,976	945.89	18,423	6,458
945.38	18,423	4,012	945.90	18,423	6,516
945.39	18,423	4,049	945.91	18,423	6,575
945.40	18,423	4,086	945.92	18,423	6,634
945.41	18,423	4,123	945.93	18,423	6,693
945.42	18,423	4,160	945.94	18,423	6,752
945.43	18,423	4,197 4,224	945.95	18,423	6,811 6,871
945.44 945.45	18,423	4,234 4,271	945.96	18,423	6,871
945.46 945.46	18,423 18,423	4,271 4,308	945.97 945.98	18,423	6,931 6,001
			945.98	18,423	6,991 7,051
945.47 945.48	18,423	4,345		18,423	7,051
945.49	18,423 18,423	4,382 4,419	946.00 946.01	18,423 18,423	7,112 7,173
945.50	18,423 18,423	4,456	946.02	18,423	7,173
945.51	18,423	4,493	946.03	18,423	7,235 7,295
945.52	18,423	4,533	946.04	18,423	7,295 7,356
945.53	18,423	4,574	946.05	18,423	7,418
945.54	18,423	4,617	946.06	18,423	7,479
945.55	18,423	4,667	946.07	18,423	7,541
945.56	18,423	4,712	946.08	18,423	7,603
945.57	18,423	4,758	946.09	18,423	7,666
945.58	18,423	4,804	946.10	18,423	7,728
945.59	18,423	4,852	946.11	18,423	7,723 7,791
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
946.12	18,423	7,854	946.64	18,423	11,321
946.13	18,423	7,917	946.65	18,423	11,391
946.14	18,423	7,980	946.66	18,423	11,461
946.15	18,423	8,043	946.67	18,423	11,531
946.16	18,423	8,107	946.68	18,423	11,601
946.17	18,423	8,170	946.69	18,423	11,671
946.18	18,423	8,234	946.70	18,423	11,741
946.19	18,423	8,298	946.71	18,423	11,812
946.20	18,423	8,363	946.72	18,423	11,882
946.21	18,423	8,427	946.73	18,423	11,953
946.22	18,423	8,491	946.74	18,423	12,023
946.23	18,423	8,556	946.75	18,423	12,094
946.24	18,423	8,621	946.76	18,423	12,165
946.25	18,423	8,686	946.77	18,423	12,236
946.26	18,423	8,751	946.78	18,423	12,307
946.27	18,423	8,816	946.79	18,423	12,378
946.28	18,423	8,882	946.80	18,423	12,449
946.29	18,423	8,947	946.81	18,423	12,520
946.30	18,423	9,013	946.82	18,423	12,591
946.31	18,423	9,079	946.83	18,423	12,662
946.32	18,423	9,145	946.84	18,423	12,734
946.33	18,423	9,211	946.85	18,423	12,805
946.34	18,423	9,277	946.86	18,423	12,877
946.35	18,423	9,344	946.87	18,423	12,948
946.36	18,423	9,410	946.88	18,423	13,020
946.37	18,423	9,477	946.89	18,423	13,092
946.38	18,423	9,544	946.90	18,423	13,164
946.39	18,423	9,611	946.91	18,423	13,236
946.40	18,423	9,678	946.92	18,423	13,308
946.41	18,423	9,745	946.93	18,423	13,380
946.42	18,423	9,812	946.94	18,423	13,452
946.43	18,423	9,879	946.95	18,423	13,524
946.44	18,423	9,947	946.96	18,423	13,596
946.45	18,423	10,015	946.97	18,423	13,668
946.46	18,423	10,082	946.98	18,423	13,741
946.47	18,423	10,150	946.99	18,423	13,813
946.48	18,423	10,218	947.00	18,423	13,886
946.49	18,423	10,286	947.01	18,423	13,958
946.50	18,423	10,355	947.02	18,423	14,031
946.51	18,423	10,423	947.03	18,423	14,103
946.52	18,423	10,492	947.04	18,423	14,176
946.53	18,423	10,560	947.05	18,423	14,249
946.54	18,423	10,629	947.06	18,423	14,322
946.55	18,423	10,698	947.07	18,423	14,395
946.56	18,423	10,766	947.08	18,423	14,467
946.57	18,423	10,835	947.09	18,423	14,540
946.58	18,423	10,905	947.10	18,423	14,613
946.59	18,423	10,974	947.11	18,423	14,686
946.60	18,423	11,043	947.12	18,423	14,760
946.61	18,423	11,113	947.13	18,423	14,833
946.62	18,423	11,182	947.14	18,423	14,906
946.63	18,423	11,252	947.15	18,423	14,979
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
947.16	18,423	15,053	947.68	18,423	18,909
947.17	18,423	15,126	947.69	18,423	18,984
947.18	18,423	15,199	947.70	18,423	19,058
947.19	18,423	15,273	947.71	18,423	19,133
947.20	18,423	15,346	947.72	18,423	19,208
947.21	18,423	15,420	947.73	18,423	19,282
947.22	18,423	15,493	947.74	18,423	19,357
947.23	18,423	15,567	947.75	18,423	19,432
947.24	18,423	15,641	947.76	18,423	19,506
947.25	18,423	15,714	947.77	18,423	19,581
947.26	18,423	15,788	947.78	18,423	19,656
947.27	18,423	15,862	947.79	18,423	19,730
947.28	18,423	15,936	947.80	18,423	19,805
947.29	18,423	16,010	947.81	18,423	19,880
947.30	18,423	16,083	947.82	18,423	19,954
947.31	18,423	16,157	947.83	18,423	20,029
947.32	18,423	16,231	947.84	18,423	20,103
947.33	18,423	16,305	947.85	18,423	20,178
947.34	18,423	16,379	947.86	18,423	20,253
947.35	18,423	16,453	947.87	18,423	20,327
947.36	18,423	16,527	947.88	18,423	20,402
947.37	18,423	16,601	947.89	18,423	20,476
947.38	18,423	16,676	947.90	18,423	20,551
947.39	18,423	16,750	947.91	18,423	20,626
947.40	18,423	16,824	947.92	18,423	20,700
947.41	18,423	16,898	947.93	18,423	20,775
947.42	18,423	16,972	947.94	18,423	20,849
947.43	18,423	17,047	947.95	18,423	20,924
947.44	18,423	17,121	947.96	18,423	20,998
947.45	18,423	17,195	947.97	18,423	21,073
947.46	18,423	17,270	947.98	18,423	21,147
947.47	18,423	17,344	947.99	18,423	21,222
947.48	18,423	17,418	948.00	18,423	21,296
947.49	18,423	17,493	948.01	18,423	21,371
947.50	18,423	17,567	948.02	18,423	21,445
947.51	18,423	17,642	948.03	18,423	21,519
947.52	18,423	17,716	948.04	18,423	21,594
947.53	18,423	17,790	948.05	18,423	21,668
947.54	18,423	17,865	948.06	18,423	21,742
947.55	18,423	17,939	948.07	18,423	21,817
947.56	18,423	18,014	948.08	18,423	21,891
947.57	18,423	18,088	948.09	18,423	21,965
947.58	18,423	18,163	948.10	18,423	22,039
947.59	18,423	18,238	948.11	18,423	22,113
947.60	18,423	18,312	948.12	18,423	22,188
947.61	18,423	18,387	948.13	18,423	22,262
947.62	18,423	18,461	948.14	18,423	22,336
947.63	18,423	18,536	948.15	18,423	22,410
947.64	18,423	18,611	948.16	18,423	22,484
947.65	18,423	18,685	948.17	18,423	22,558
947.66	18,423	18,760	948.18	18,423	22,632
947.67	18,423	18,834	948.19	18,423	22,706

948.47 18,423 24,760 948.99 18,423 28,440 948.48 18,423 24,832 949.00 18,423 28,508 948.49 18,423 24,905 949.01 18,423 28,577 948.50 18,423 24,978 949.02 18,423 28,645 948.51 18,423 25,050 949.03 18,423 28,713 948.52 18,423 25,122 949.04 18,423 28,781 948.53 18,423 25,195 949.05 18,423 28,849 948.54 18,423 25,339 949.07 18,423 28,984 948.55 18,423 25,411 949.08 18,423 29,151 948.57 18,423 25,484 949.09 18,423 29,118 948.59 18,423 25,556 949.10 18,423 29,186 948.60 18,423 25,628 949.11 18,423 29,253 948.61 18,423 25,915	Elevation	Surface	Storage	Elevation	Surface	Storage
948.21 18.423 22.928 948.73 18.423 26.628 948.22 18.423 22.928 948.74 18.423 26.698 948.23 18.423 23.001 948.75 18.423 26.6769 948.24 18.423 23.075 948.76 18.423 26.840 948.25 18.423 23.149 948.77 18.423 26.891 948.26 18.423 23.296 948.79 18.423 27.051 948.28 18.423 23.296 948.79 18.423 27.051 948.28 18.423 23.370 948.80 18.423 27.122 948.29 18.423 23.443 948.81 18.423 27.122 948.29 18.423 23.517 948.82 18.423 27.122 948.30 18.423 23.517 948.82 18.423 27.32 948.31 18.423 23.590 948.83 18.423 27.32 948.33 18.423 23.664 948.84 18.423 27.32 948.33 18.423 23.811 948.85 18.423 27.472 948.36 18.423 23.811 948.86 18.423 27.612 948.37 18.423 23.897 948.87 18.423 27.612 948.38 18.423 23.897 948.89 18.423 27.612 948.39 18.423 23.897 948.89 18.423 27.612 948.30 18.423 23.894 948.87 18.423 27.612 948.31 18.423 23.894 948.87 18.423 27.612 948.34 18.423 23.894 948.87 18.423 27.612 948.35 18.423 23.894 948.87 18.423 27.612 948.36 18.423 24.030 948.89 18.423 27.612 948.37 18.423 24.104 948.90 18.423 27.7812 948.38 18.423 24.104 948.90 18.423 27.782 948.44 18.423 24.250 948.92 18.423 27.820 948.44 18.423 24.250 948.92 18.423 27.820 948.45 18.423 24.250 948.92 18.423 27.820 948.47 18.423 24.396 948.95 18.423 28.097 948.48 18.423 24.69 948.95 18.423 28.097 948.49 18.423 24.69 948.95 18.423 28.097 948.49 18.423 24.69 948.97 18.423 28.097 948.49 18.423 24.69 948.99 18.423 28.234 948.49 18.423 24.699 948.95 18.423 28.303 948.49 18.423 24.699 948.95 18.423 28.303 948.49 18.423 24.699 948.97 18.423 28.698 948.49 18.423 24.699 948.99 18.423 28.303 948.49 18.423 24.699 948.99 18.423 28.303 948.49 18.423 24.699 948.99 18.423 28.303 948.49 18.423 24.699 948.99 18.423 28.303 948.49 18.423 24.699 948.99 18.423 28.998 948.49 18.423 24.699 948.99 18.423 28.998 948.49 18.423 25.556 949.00 18.423 28.998 948.50 18.423 25.556 949.00 18.423 29.916 948.55 18.423 25.556 949.10 18.423 29.916 948.56 18.423 25.556 949.10 18.423 29.916 948.66 18.423 25.569 949.10 18.423 29.956 948.66 18.423 25.569 949.10 18.423 29.956 948.66 18.423 25.569 949.10 18.423						
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948.54 18,423 25,267 949.06 18,423 28,916 948.55 18,423 25,339 949.07 18,423 28,984 948.56 18,423 25,411 949.08 18,423 29,051 948.57 18,423 25,484 949.09 18,423 29,118 948.58 18,423 25,556 949.10 18,423 29,186 948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,843 949.14 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,718 948.66 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 </td <td>948.52</td> <td>18,423</td> <td>25,122</td> <td></td> <td>18,423</td> <td>28,781</td>	948.52	18,423	25,122		18,423	28,781
948.55 18,423 25,339 949.07 18,423 28,984 948.56 18,423 25,411 949.08 18,423 29,051 948.57 18,423 25,484 949.09 18,423 29,118 948.58 18,423 25,556 949.10 18,423 29,186 948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,201 949.18 18,423 29,718 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 </td <td>948.53</td> <td>18,423</td> <td>25,195</td> <td>949.05</td> <td>18,423</td> <td>28,849</td>	948.53	18,423	25,195	949.05	18,423	28,849
948.56 18,423 25,411 949.08 18,423 29,051 948.57 18,423 25,484 949.09 18,423 29,118 948.58 18,423 25,556 949.10 18,423 29,186 948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,219 949.18 18,423 29,718 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343	948.54	18,423	25,267	949.06	18,423	28,916
948.57 18,423 25,484 949.09 18,423 29,118 948.58 18,423 25,556 949.10 18,423 29,186 948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,219 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415	948.55	18,423	25,339	949.07	18,423	28,984
948.58 18,423 25,556 949.10 18,423 29,186 948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415	948.56	18,423	25,411	949.08	18,423	29,051
948.59 18,423 25,628 949.11 18,423 29,253 948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.57		25,484		18,423	29,118
948.60 18,423 25,699 949.12 18,423 29,320 948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.58	18,423	25,556	949.10	18,423	29,186
948.61 18,423 25,771 949.13 18,423 29,386 948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.59	18,423	25,628	949.11	18,423	29,253
948.62 18,423 25,843 949.14 18,423 29,453 948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.60	18,423	25,699	949.12	18,423	29,320
948.63 18,423 25,915 949.15 18,423 29,520 948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.61	18,423	25,771	949.13	18,423	29,386
948.64 18,423 25,986 949.16 18,423 29,586 948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.62	18,423	25,843	949.14	18,423	29,453
948.65 18,423 26,058 949.17 18,423 29,652 948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.63	18,423	25,915	949.15	18,423	29,520
948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.64	18,423	25,986	949.16	18,423	29,586
948.66 18,423 26,129 949.18 18,423 29,718 948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981		18,423			· ·	29,652
948.67 18,423 26,201 949.19 18,423 29,784 948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981	948.66					29,718
948.68 18,423 26,272 949.20 18,423 29,850 948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981						29,784
948.69 18,423 26,343 949.21 18,423 29,916 948.70 18,423 26,415 949.22 18,423 29,981						29,850
948.70 18,423 26,415 949.22 18,423 29,981						29,916
						29,981
, , ,						30,047
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Elevation	Surface	Storage	Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)	(feet)	(sq-ft)	(cubic-feet)
949.24	18,423	30,112	949.76	18,423	33,247
949.25	18,423	30,177	949.77	18,423	33,301
949.26	18,423	30,242	949.78	18,423	33,354
949.27	18,423	30,307	949.79	18,423	33,407
949.28	18,423	30,372	949.80	18,423	33,460
949.29	18,423	30,436	949.81	18,423	33,512
949.30	18,423	30,501	949.82	18,423	33,564
949.31	18,423	30,565	949.83	18,423	33,616
949.32	18,423	30,629	949.84	18,423	33,667
949.33	18,423	30,693	949.85	18,423	33,717
949.34	18,423	30,756	949.86	18,423	33,767
949.35	18,423	30,820	949.87	18,423	33,817
949.36	18,423	30,883	949.88	18,423	33,867
949.37	18,423	30,947	949.89	18,423	33,915
949.38	18,423	31,010	949.90	18,423	33,964
949.39	18,423	31,072	949.91	18,423	34,011
949.40	18,423	31,135	949.92	18,423	34,059
949.41	18,423	31,198	949.93	18,423	34,105
949.42	18,423	31,260	949.94	18,423	34,151
949.43	18,423	31,322	949.95	18,423	34,196
949.44	18,423	31,384	949.96	18,423	34,241
949.45	18,423	31,446	949.97	18,423	34,284
949.46	18,423	31,507	949.98	18,423	34,325
949.47	18,423	31,569	949.99	18,423	34,364
949.48	18,423	31,630	950.00	18,423	34,408
949.49	18,423	31,691	950.01	18,423	34,445
949.50 949.51	18,423 18,423	31,751 31,812	950.02 950.03	18,423 18,423	34,481 34,518
949.52	18,423	31,872	950.03	18,423	34,555
949.53	18,423	31,932	950.04	18,423	34,592
949.54	18,423	31,992	950.06	18,423	34,629
949.55	18,423	32,052	950.00	18,423	34,666
949.56	18,423	32,111	950.07	18,423	34,703
949.57	18,423	32,171	950.09	18,423	34,740
949.58	18,423	32,230	950.10	18,423	34,777
949.59	18,423	32,288	950.11	18,423	34,814
949.60	18,423	32,347	950.12	18,423	34,851
949.61	18,423	32,405	950.13	18,423	34,888
949.62	18,423	32,463	950.14	18,423	34,925
949.63	18,423	32,521	950.15	18,423	34,961
949.64	18,423	32,578	950.16	18,423	34,998
949.65	18,423	32,636	950.17	18,423	35,035
949.66	18,423	32,693	950.18	18,423	35,072
949.67	18,423	32,749	950.19	18,423	35,109
949.68	18,423	32,806	950.20	18,423	35,146
949.69	18,423	32,862	950.21	18,423	35,183
949.70	18,423	32,918	950.22	18,423	35,220
949.71	18,423	32,974	950.23	18,423	35,257
949.72	18,423	33,029	950.24	18,423	35,294
949.73	18,423	33,084	950.25	18,423	35,331
949.74	18,423	33,139	950.26	18,423	35,368
949.75	18,423	33,193	950.27	18,423	35,405

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Elevation	Surface	Storage
(feet)	(sq-ft)	(cubic-feet)
950.28	18,423	35,442
950.29	18,423	35,478
950.30	18,423	35,515
950.31	18,423	35,552
950.32	18,423	35,589
950.33	18,423	35,626
950.34	18,423	35,663
950.35	18,423	35,700
950.36	18,423	35,737
950.37	18,423	35,774
950.38	18,423	35,811
950.39	18,423	35,848
950.40	18,423	35,885
950.41	18,423	35,922
950.42	18,423	35,958
950.43	18,423	35,995
950.44	18,423	36,032
950.45	18,423	36,069
950.46	18,423	36,106
950.47	18,423	36,143
950.48	18,423	36,180
950.49	18,423	36,217
950.50	18,423	36,254

Project Information

Calculator Version: Version 3: January 2017

Project Name: Greco Minnetonka Existing Site

User Name / Company Name:

Date: 01/30/24

Project Description:

Construction Permit?: Yes

Site Information

Retention Requirement (inches): 1.1
Site's Zip Code: 55391
Annual Rainfall (inches): 29.9
Phosphorus EMC (mg/l): 0.3
TSS EMC (mg/l): 54.5

Total Site Area

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land					0
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed				3.821	3.821
		I	mpervious A	rea (acres)	3.158
			Total A	rea (acres)	6.979

Site Areas Routed to BMPs

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land					0
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed					0
		I	mpervious A	Area (acres)	
			Total A	Area (acres)	0

Summary Information

Performance Goal Requirement

Performance goal volume retention requirement:	12610	ft3
Volume removed by BMPs towards performance goal:		ft ³
Percent volume removed towards performance goal		%

Annual Volume and Pollutant Load Reductions

Post development annual runoff volume Annual runoff volume removed by BMPs: Percent annual runoff volume removed:	8.8699	acre-ft acre-ft %
Post development annual particulate P load: Annual particulate P removed by BMPs: Post development annual dissolved P load: Annual dissolved P removed by BMPs: Percent annual total phosphorus removed:	3.981 3.257	lbs lbs lbs lbs
Post development annual TSS load: Annual TSS removed by BMPs: Percent annual TSS removed:	1314.9	lbs lbs %

BMP Summary

Performance Goal Summary

BMP Name	Capacity Re	I .		Volume Outflow (ft3)	Percent Retained (%)
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Annual Volume Summary

- Tannaar volanie sammary					
BMP Name	Volume From Direct Watershed (acre-ft)	Volume From Upstream BMPs (acre-ft)	Volume Retained (acre-ft)	Volume outflow (acre-ft)	Percent Retained (%)

Particulate Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
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Dissolved Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (Ibs)	Outflow Load (lbs)	Percent Retained (9
SS Summary					
BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (Ibs)	Load Retained (Ibs)	Outflow Load (lbs)	Percent Retained (9
MP Schematic					

Project Information

Calculator Version: Version 3: January 2017

Project Name: Greco Minnetonka Proposed Site

User Name / Company Name:

Date: 01/30/24

Project Description:

Construction Permit?: Yes

Site Information

Retention Requirement (inches): 1.1
Site's Zip Code: 55391
Annual Rainfall (inches): 29.9
Phosphorus EMC (mg/l): 0.3
TSS EMC (mg/l): 54.5

Total Site Area

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land					0
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed				2.610	2.61
		I	mpervious A	rea (acres)	4.369
			Total A	rea (acres)	6.979

Site Areas Routed to BMPs

Land Cover	A Soils (acres)	B Soils (acres)	C Soils (acres)	D Soils (acres)	Total (acres)
Forest/Open Space - Undisturbed, protected forest/open space or reforested land					0
Managed Turf - disturbed, graded for yards or other turf to be mowed/managed				0.526	0.526
			Impervious A	rea (acres)	3.981
			Total A	rea (acres)	4.507

Summary Information

Performance Goal Requirement

Percent volume removed towards performance goal	%
Volume removed by BMPs towards performance goal:	ft³
Performance goal volume retention requirement: 17445	ft3

Annual Volume and Pollutant Load Reductions

Post development annual runoff volume Annual runoff volume removed by BMPs: Percent annual runoff volume removed:	10.7708 0 0	acre-ft acre-ft %
Post development annual particulate P load:	4.834	lbs
Annual particulate P removed by BMPs:	3.348	lbs
Post development annual dissolved P load:	3.955	lbs
Annual dissolved P removed by BMPs:	1.289	lbs
Percent annual total phosphorus removed:	53	%
Post development annual TSS load:	1596.7	lbs
Annual TSS removed by BMPs:	1105.8	lbs
Percent annual TSS removed:	69	%

BMP Summary

Performance Goal Summary

BMP Name	BMP Volume Capacity (ft3)	Volume Recieved (ft3)	Volume Retained (ft3)	Volume Outflow (ft3)	Percent Retained (%)
West Underground Vualt	0	10094	0	10094	0
East underground Vault	0	5802	0	5802	0

Annual Volume Summary

BMP Name	Volume From Direct Watershed (acre-ft)	Volume From Upstream BMPs (acre-ft)	Volume Retained (acre-ft)	Volume outflow (acre-ft)	Percent Retained (%)
West Underground Vualt	5.5364	0	0	5.5364	0
East underground Vault	3.2395	0	0	3.2395	0

Particulate Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
West Underground Vualt	2.4847	0	2.112	0.3727	85
East underground Vault	1.4539	0	1.2358	0.2181	85

Dissolved Phosphorus Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
West Underground Vualt	2.033	0	0.8132	1.2198	40
East underground Vault	1.1896	0	0.4758	0.7138	40

TSS Summary

BMP Name	Load From Direct Watershed (lbs)	Load From Upstream BMPs (lbs)	Load Retained (lbs)	Outflow Load (lbs)	Percent Retained (%)
West Underground Vualt	820.72	0	697.61	123.11	85
East underground Vault	480.23	0	408.2	72.03	85

BMP Schematic



