Village of Menomonee Falls
W156 N8480 Pilgrim Road
Menomonee Falls, WI 53051-3140
Telephone: (262) 532-4200

STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section: SE ¼ Sect.1
Name of Business/Subdivision: Eaton Corporation
Property Tax ID Number: 0052992004
Address of Property: W126N7250 Flint Drive Menomonee Falls, WI 53051
Date: 09/30/2021

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP13s024

Location of Pond: Western Parcel Line; abutting the North Parcel Line

Year Pond Constructed: 2012
Year of Last Certification: 2016

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12”	12”	X		Reinforced Concrete Pipe.
Upstream Invert	794	793.51	X		
Downstream Invert	793.9	793.41	X		
Length (feet)	100	100	X		
Slope (%)	0.1%	0.1%	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	N/A	N/A	N/A	N/A	Structure not a riser; there is no open grate at the top.
Elevation	N/A	N/A	N/A	N/A	
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	2”	2”	X		
Elevation	795	795.09	X		

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	2”	2”	X		
Elevation	794	793.92	X		
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	N/A	798.83	X		A spillway was not modeled during original design.
Length of spillway (feet)	N/A	11’	X		

Embankment	Present Yes	Present no	Comments/Maintenance Requirements
Unauthorized Plantings, trees, or woody vegetation		X	
Animal burrows or slope erosion		X	

Storm Sewer Outfalls	Type & Size	Location	Comments
Outfall 1	12” RCP	E .Side of Pond	Invert 794.11
Outfall 2	12” RCP	NW. Side of Pond	Invert 794.18
Outfall 3	12” HDPE	S. Side of Pond	Invert 795.57

Storage Properties	Design	Actual	Compliant Yes	Compliant No	Not Applicable	Equipment Used
Normal Water Elevation *(Wet Ponds)*	794	794	X			
Design High Water Elevation	797.3	797.54	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.12	0.103	X			
Area at Design High Water Elevation (Ac)	0.23	0.235	X			
Active Storage Available (Ac-Ft)*	0.40	0.60	X			
Lowest Elevation at Top of Embankment (If Applicable)	799	799	X			
Average Elevation at Top of Embankment (If Applicable)	799	799	X			
Maximum Bottom Elevation	789	788	X			
Average Pond Bottom Elevation	789	788	X			
Pond Bottom Area (Ac)	0.024	0.007	X			
Maximum Pond Depth	10	11	X			
Average Pond Depth	10	11	X			
Average Permanent Pool Depth *(Wet Ponds)*	5	6	X			

*To Determine Active Storage $V=(H/3)(A1+A2+(\sqrt{(A1+A2)}))$

Wet Ponds Use *H = Height of Section* , *A1= area at normal water elevation, A2=area at top section*

Dry Ponds Use *H= Height of Section, A1= pond bottom area, A2=area at top section*

Sketch Outlet or Attach to Document

Place Photograph of Pond or Attach to Document

Place Photograph of Pond or Attach to Document
See the Attached Photographs

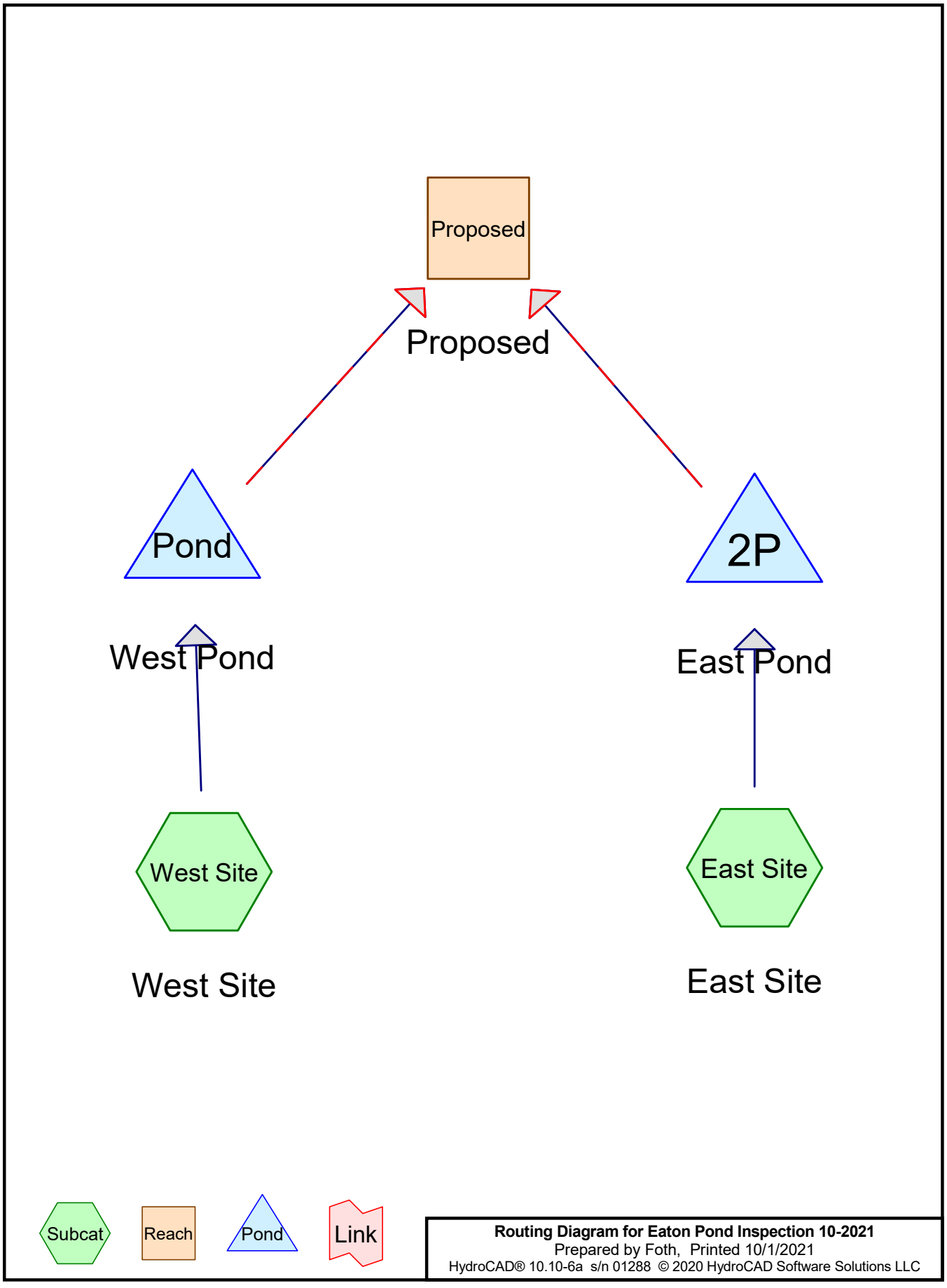
Attach As-built Survey to the Document for the first report submission

Inspection Firm:	Foth Infrastructure Solutions, LLC	Inspector Name :	Ryan W. Kloth, PE, CFM
Phone Number:	414-336-7908	Inspection Date:	9/16/2021
Address:	7044 S. Ballpark Drive, Suite 200 Franklin, WI 53132		

Certifying Professional Name: *Ryan W. Kloth, PE, CFM*

Phone Number: *414-336-7908*

Date:09/29/21	*Signature:* 	 *Affix Seal Here*



Routing Diagram for Eaton Pond Inspection 10-2021
Prepared by Foth, Printed 10/1/2021

Project Notes

September 2021-For the Eaton Corporation. This is the revised 2016 model based on recent survey of the ponds and outlet structures. RWK
Rainfall events imported from "NRCS-Rain.txt" for 9184 WI Ozaukee
Rainfall events imported from "NRCS-Rain.txt" for 9184 WI Ozaukee

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-Year	MSE 24-hr	3	Default	24.00	1	2.61	2
2	100-Year	MSE 24-hr	3	Default	24.00	1	6.38	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
5.940	88	From 2016 Stormwater Inspection Report (East Site)
1.840	86	From 2016 Stormwater Inspection Report (West Site)
7.780	**88**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
7.780	Other	East Site, West Site
7.780		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subca Numb
0.000	0.000	0.000	0.000	7.780	7.780	From 2016 Stormwater Inspection Report	
0.000	**0.000**	**0.000**	**0.000**	**7.780**	**7.780**	**TOTAL AREA**	

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	2P	791.14	790.55	50.0	0.0118	0.014	0.0	12.0	0.0
2	Pond	793.51	792.54	140.0	0.0069	0.014	0.0	12.0	0.0

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment East Site: East Site Runoff Area=5.940 ac 0.00% Impervious Runoff Depth>1.47"
Tc=27.2 min CN=88 Runoff=8.28 cfs 0.729 af

Subcatchment West Site: West Site Runoff Area=1.840 ac 0.00% Impervious Runoff Depth>1.33"
Tc=26.1 min CN=86 Runoff=2.37 cfs 0.204 af

Reach Proposed: Proposed Inflow=0.34 cfs 0.283 af
Outflow=0.34 cfs 0.283 af

Pond 2P: East Pond Peak Elev=793.37' Storage=0.558 af Inflow=8.28 cfs 0.729 af
Primary=0.31 cfs 0.251 af Secondary=0.00 cfs 0.000 af Outflow=0.31 cfs 0.251 af

Pond Pond: West Pond Peak Elev=795.33' Storage=0.176 af Inflow=2.37 cfs 0.204 af
Primary=0.04 cfs 0.032 af Secondary=0.00 cfs 0.000 af Outflow=0.04 cfs 0.032 af

Total Runoff Area = 7.780 ac Runoff Volume = 0.933 af Average Runoff Depth = 1.44"
100.00% Pervious = 7.780 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment East Site: East Site

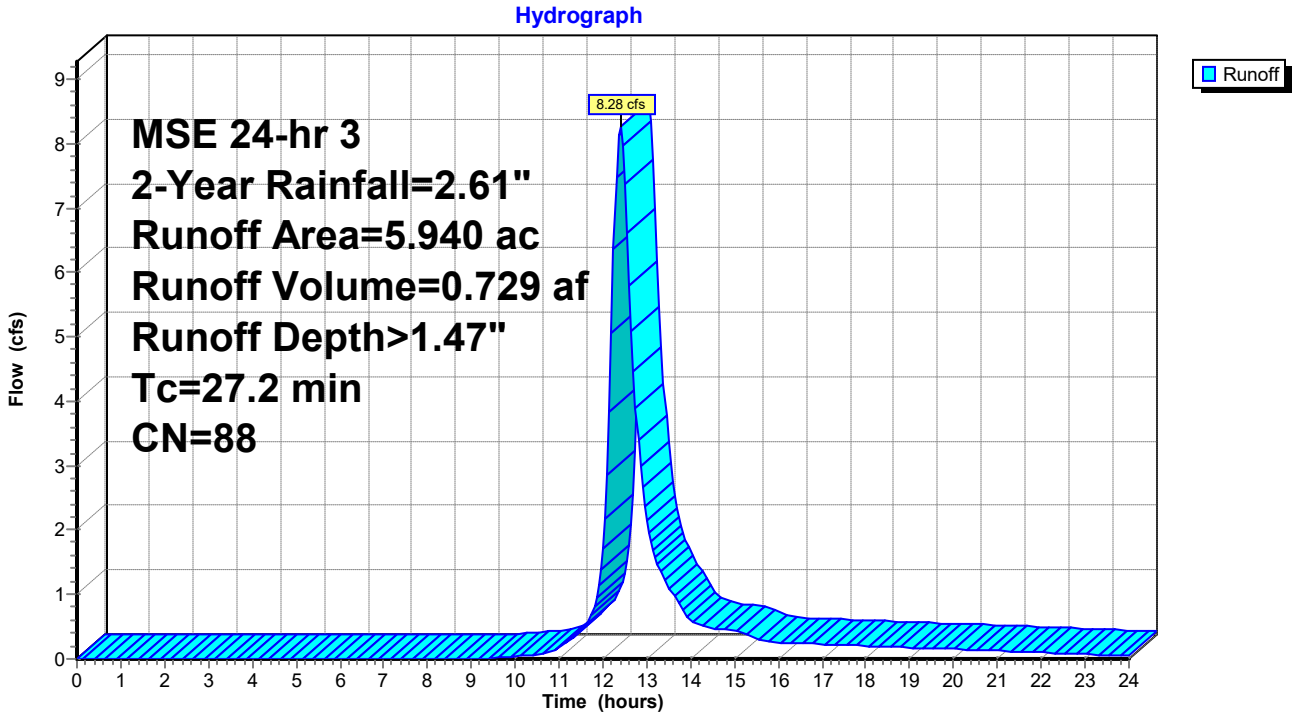
Runoff = 8.28 cfs @ 12.39 hrs, Volume= 0.729 af, Depth> 1.47"
Routed to Pond 2P : East Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MSE 24-hr 3 2-Year Rainfall=2.61"

	Area (ac)	CN	Description
*	5.940	88	From 2016 Stormwater Inspection Report
	5.940		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.2					**Direct Entry, From 2016 Stormwater Inspection Report**

Subcatchment East Site: East Site



Summary for Subcatchment West Site: West Site

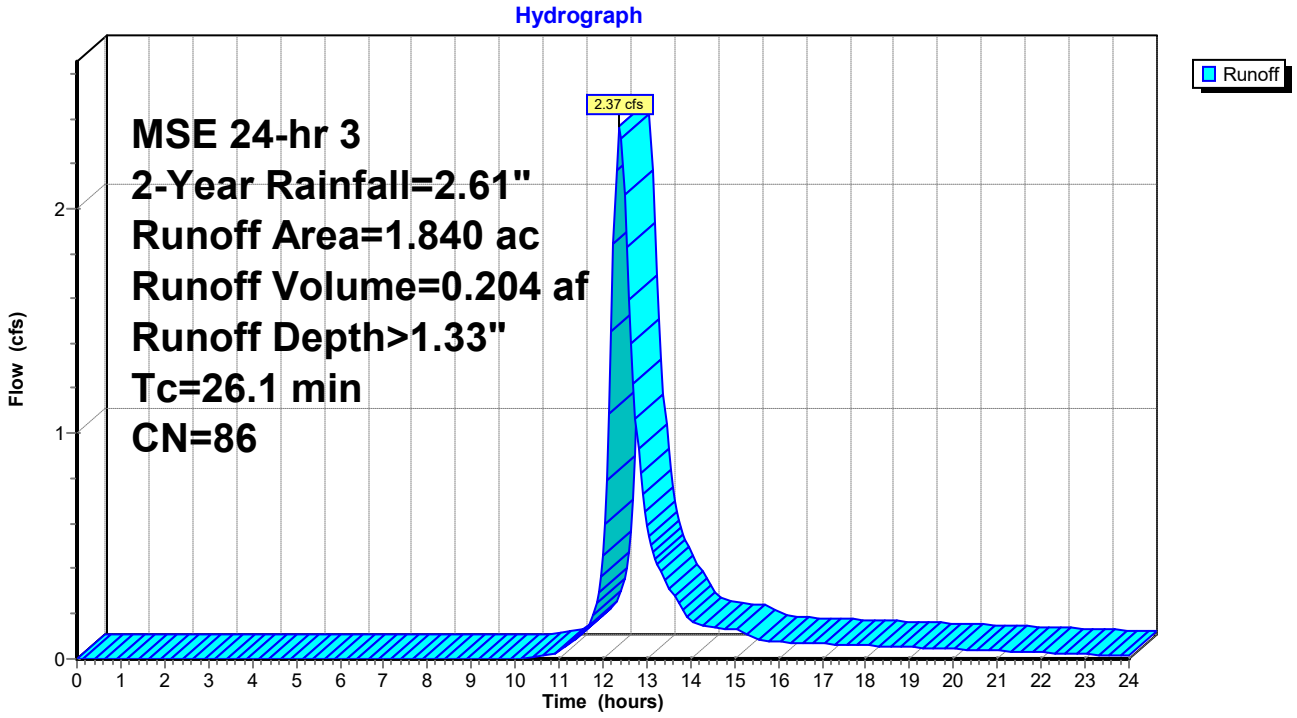
Runoff = 2.37 cfs @ 12.38 hrs, Volume= 0.204 af, Depth> 1.33"
Routed to Pond Pond : West Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MSE 24-hr 3 2-Year Rainfall=2.61"

	Area (ac)	CN	Description
*	1.840	86	From 2016 Stormwater Inspection Report
	1.840		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.1					**Direct Entry, From 2016 Inspection Report**

Subcatchment West Site: West Site



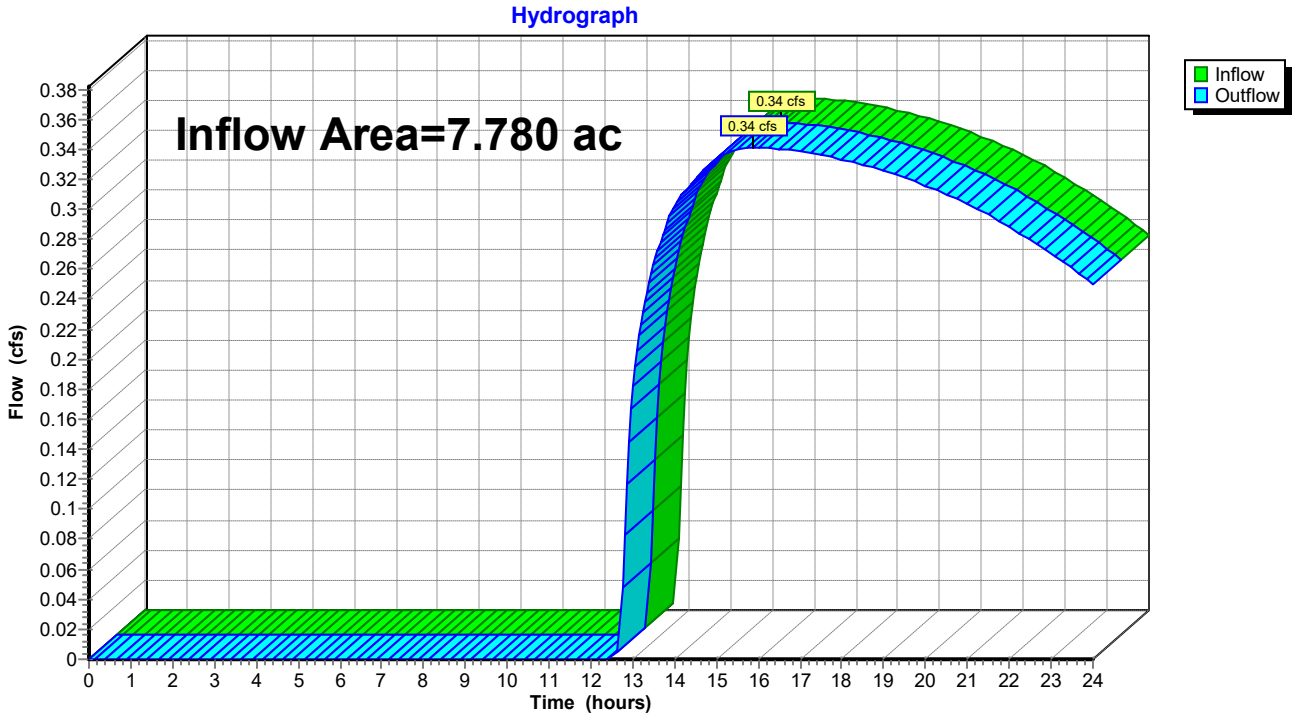
Summary for Reach Proposed: Proposed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.780 ac, 0.00% Impervious, Inflow Depth > 0.44" for 2-Year event
Inflow = 0.34 cfs @ 15.87 hrs, Volume= 0.283 af
Outflow = 0.34 cfs @ 15.87 hrs, Volume= 0.283 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Reach Proposed: Proposed



Summary for Pond 2P: East Pond

Inflow Area = 5.940 ac, 0.00% Impervious, Inflow Depth > 1.47" for 2-Year event
Inflow = 8.28 cfs @ 12.39 hrs, Volume= 0.729 af
Outflow = 0.31 cfs @ 15.52 hrs, Volume= 0.251 af, Atten= 96%, Lag= 187.5 min
Primary = 0.31 cfs @ 15.52 hrs, Volume= 0.251 af
Routed to Reach Proposed : Proposed
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach Proposed : Proposed

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 793.37' @ 15.52 hrs Surf.Area= 0.291 ac Storage= 0.558 af

Plug-Flow detention time= 367.5 min calculated for 0.251 af (34% of inflow)
Center-of-Mass det. time= 275.5 min (1,094.8 - 819.3)

Volume	Invert	Avail.Storage	Storage Description
#1	791.00'	1.922 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

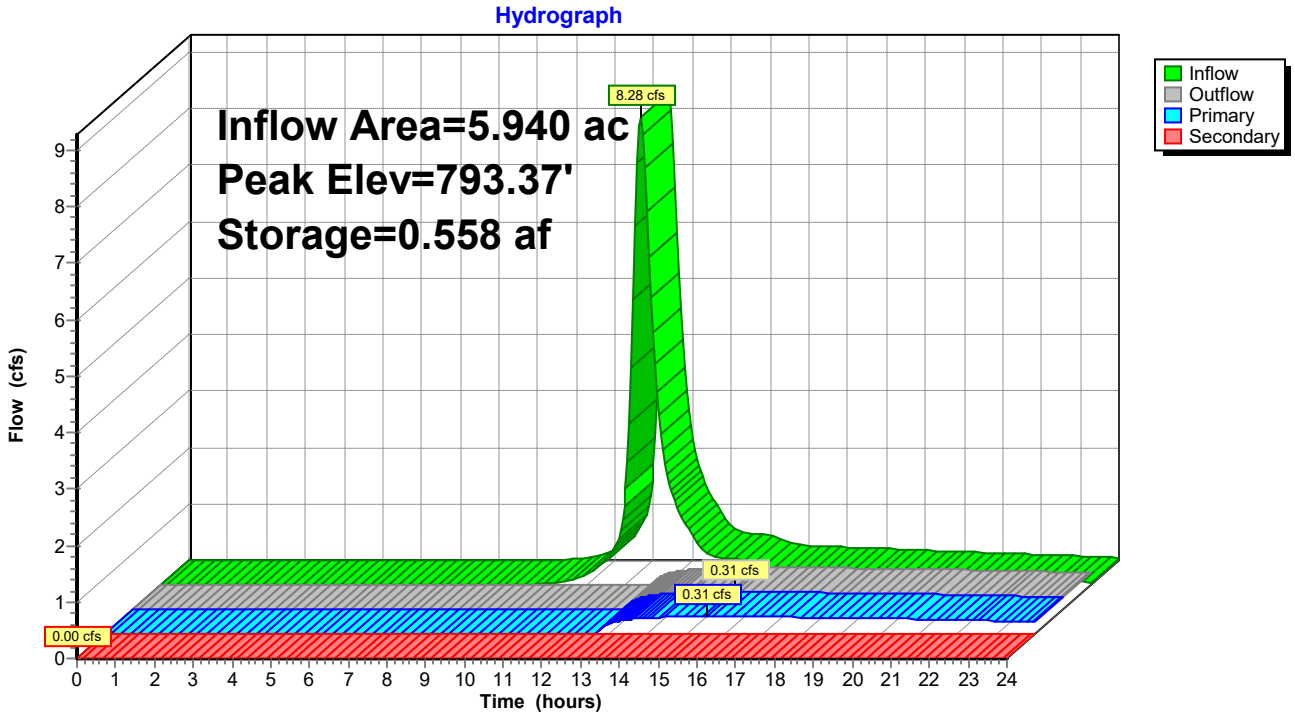
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
791.00	0.175	0.000	0.000
792.00	0.228	0.201	0.201
793.00	0.276	0.252	0.453
794.00	0.316	0.296	0.749
795.00	0.368	0.342	1.092
796.00	0.416	0.392	1.484
797.00	0.461	0.439	1.922

Device	Routing	Invert	Outlet Devices
#1	Primary	791.14'	**12.0" Round RCP_Round 12"** L= 50.0' RCP, sq.cut end projecting, Ke= 0.500 Inlet / Outlet Invert= 791.14' / 790.55' S= 0.0118 '/' Cc= 0.900 n= 0.014 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	787.71'	**12.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 2	790.59'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 3	792.67'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	796.59'	**8.7' long x 50.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=0.31 cfs @ 15.52 hrs HW=793.37' (Free Discharge)
└**1=RCP_Round 12"** (Passes 0.31 cfs of 4.66 cfs potential flow)
└**2=Orifice/Grate** (Passes 0.31 cfs of 5.64 cfs potential flow)
└**3=Orifice/Grate** (Passes 0.31 cfs of 0.63 cfs potential flow)
└**4=Orifice/Grate** (Orifice Controls 0.31 cfs @ 3.51 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=791.00' (Free Discharge)
└**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 2P: East Pond



Summary for Pond Pond: West Pond

Inflow Area = 1.840 ac, 0.00% Impervious, Inflow Depth > 1.33" for 2-Year event
Inflow = 2.37 cfs @ 12.38 hrs, Volume= 0.204 af
Outflow = 0.04 cfs @ 20.34 hrs, Volume= 0.032 af, Atten= 98%, Lag= 477.5 min
Primary = 0.04 cfs @ 20.34 hrs, Volume= 0.032 af
Routed to Reach Proposed : Proposed
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach Proposed : Proposed

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 795.33' @ 20.34 hrs Surf.Area= 0.158 ac Storage= 0.176 af

Plug-Flow detention time= 436.2 min calculated for 0.032 af (16% of inflow)
Center-of-Mass det. time= 329.0 min (1,152.9 - 824.0)

Volume	Invert	Avail.Storage	Storage Description
#1	794.00'	0.993 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

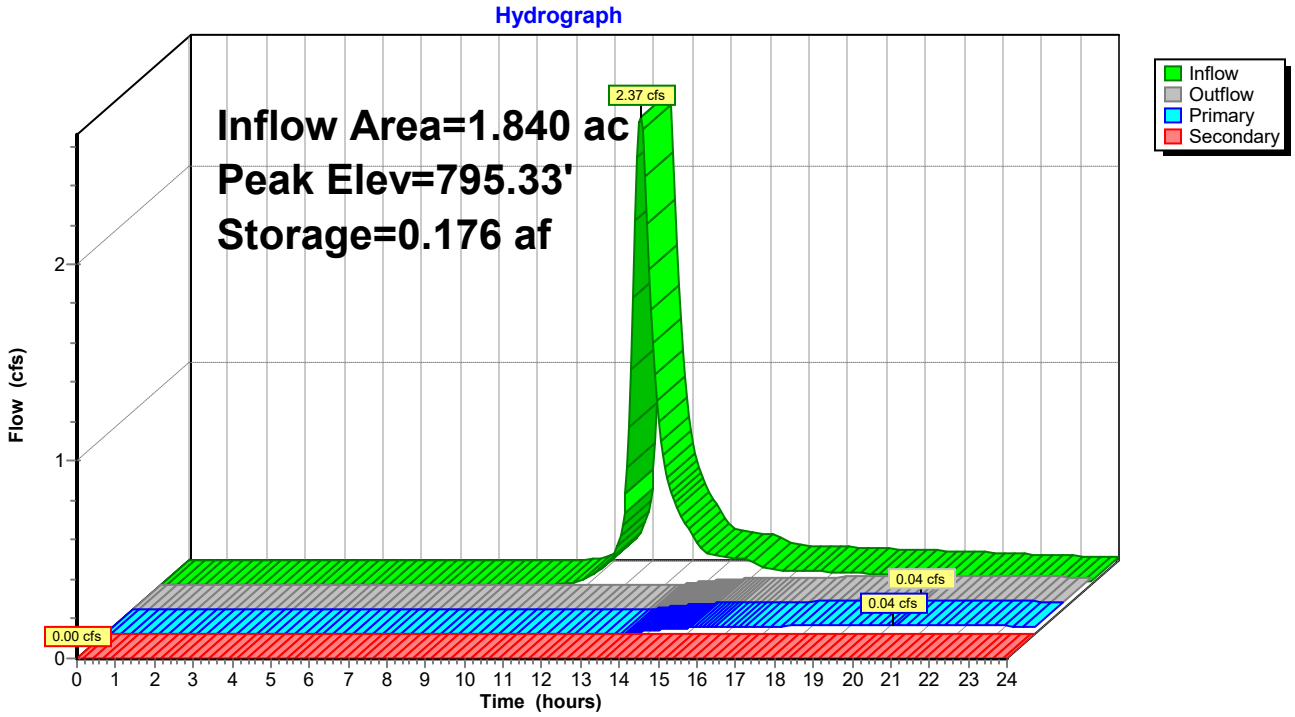
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
794.00	0.103	0.000	0.000
795.00	0.147	0.125	0.125
796.00	0.179	0.163	0.288
797.00	0.215	0.197	0.485
798.00	0.253	0.234	0.719
799.00	0.295	0.274	0.993

Device	Routing	Invert	Outlet Devices
#1	Primary	793.51'	**12.0" Round CMP_Round 12"** L= 140.0' RCP, sq.cut end projecting, Ke= 0.500 Inlet / Outlet Invert= 793.51' / 792.54' S= 0.0069 '/' Cc= 0.900 n= 0.014 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	793.92'	**2.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 2	795.09'	**2.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	798.83'	**11.0' long x 25.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=0.04 cfs @ 20.34 hrs HW=795.33' (Free Discharge)
└**1=CMP_Round 12"** (Passes 0.04 cfs of 3.29 cfs potential flow)
└**2=Orifice/Grate** (Passes 0.04 cfs of 0.12 cfs potential flow)
└**3=Orifice/Grate** (Orifice Controls 0.04 cfs @ 1.93 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=794.00' (Free Discharge)
└**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond Pond: West Pond



Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment East Site: East Site Runoff Area=5.940 ac 0.00% Impervious Runoff Depth>4.99"
Tc=27.2 min CN=88 Runoff=27.15 cfs 2.468 af

Subcatchment West Site: West Site Runoff Area=1.840 ac 0.00% Impervious Runoff Depth>4.76"
Tc=26.1 min CN=86 Runoff=8.31 cfs 0.731 af

Reach Proposed: Proposed Inflow=2.60 cfs 1.124 af
Outflow=2.60 cfs 1.124 af

Pond 2P: East Pond Peak Elev=796.76' Storage=1.812 af Inflow=27.15 cfs 2.468 af
Primary=0.83 cfs 0.775 af Secondary=1.62 cfs 0.196 af Outflow=2.45 cfs 0.971 af

Pond Pond: West Pond Peak Elev=797.54' Storage=0.606 af Inflow=8.31 cfs 0.731 af
Primary=0.16 cfs 0.153 af Secondary=0.00 cfs 0.000 af Outflow=0.16 cfs 0.153 af

Total Runoff Area = 7.780 ac Runoff Volume = 3.198 af Average Runoff Depth = 4.93"
100.00% Pervious = 7.780 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment East Site: East Site

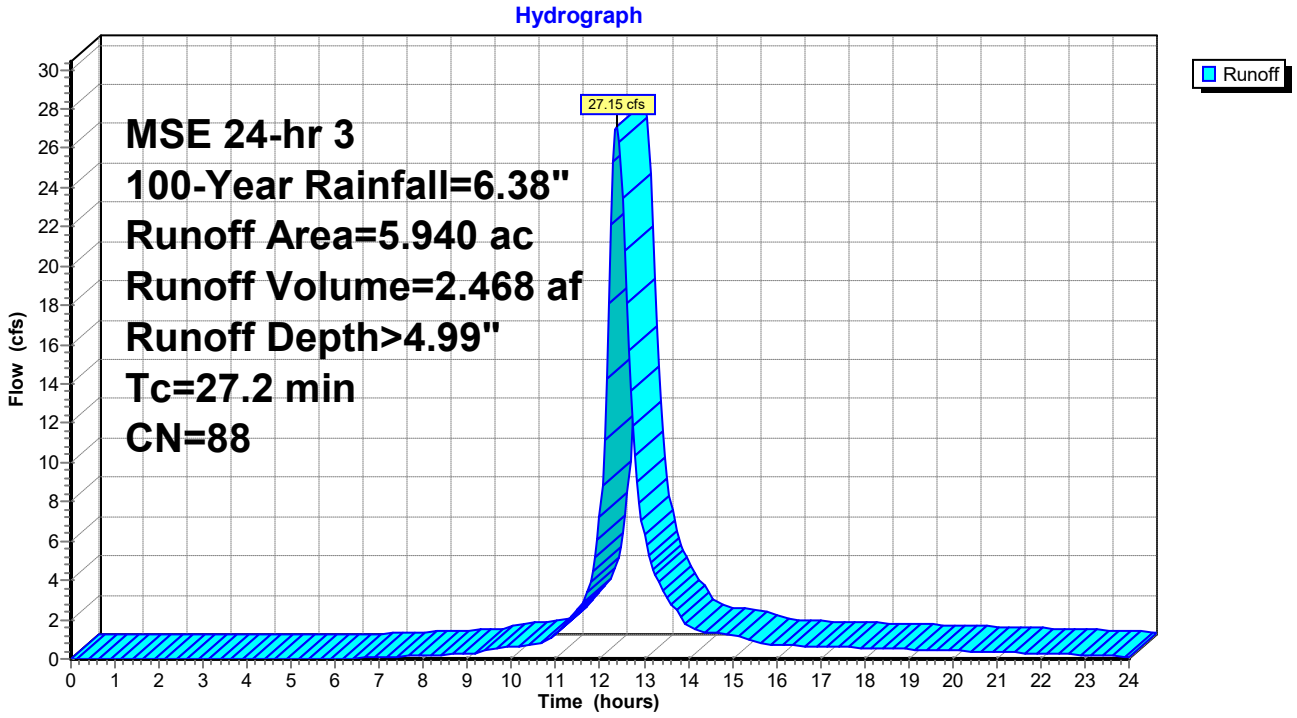
Runoff = 27.15 cfs @ 12.38 hrs, Volume= 2.468 af, Depth> 4.99"
Routed to Pond 2P : East Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MSE 24-hr 3 100-Year Rainfall=6.38"

	Area (ac)	CN	Description
*	5.940	88	From 2016 Stormwater Inspection Report
	5.940		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.2					**Direct Entry, From 2016 Stormwater Inspection Report**

Subcatchment East Site: East Site



Summary for Subcatchment West Site: West Site

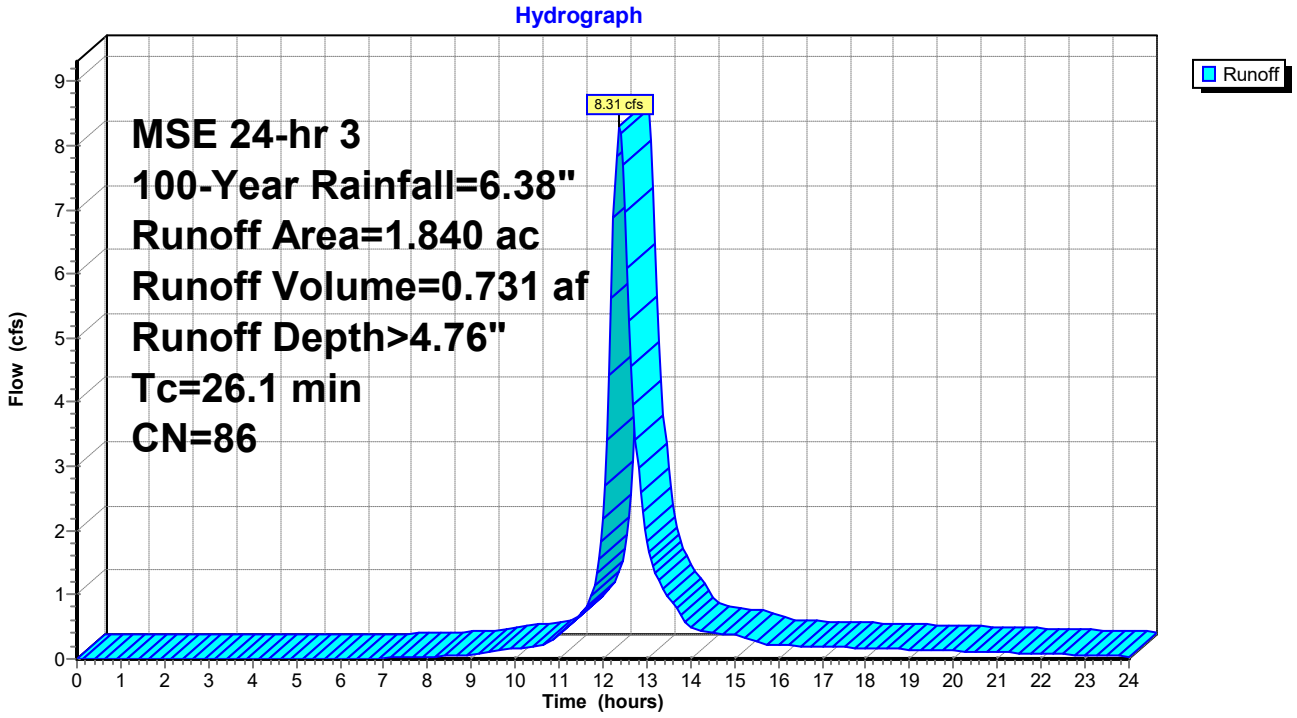
Runoff = 8.31 cfs @ 12.37 hrs, Volume= 0.731 af, Depth> 4.76"
Routed to Pond Pond : West Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
MSE 24-hr 3 100-Year Rainfall=6.38"

	Area (ac)	CN	Description
*	1.840	86	From 2016 Stormwater Inspection Report
	1.840		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.1					**Direct Entry, From 2016 Inspection Report**

Subcatchment West Site: West Site



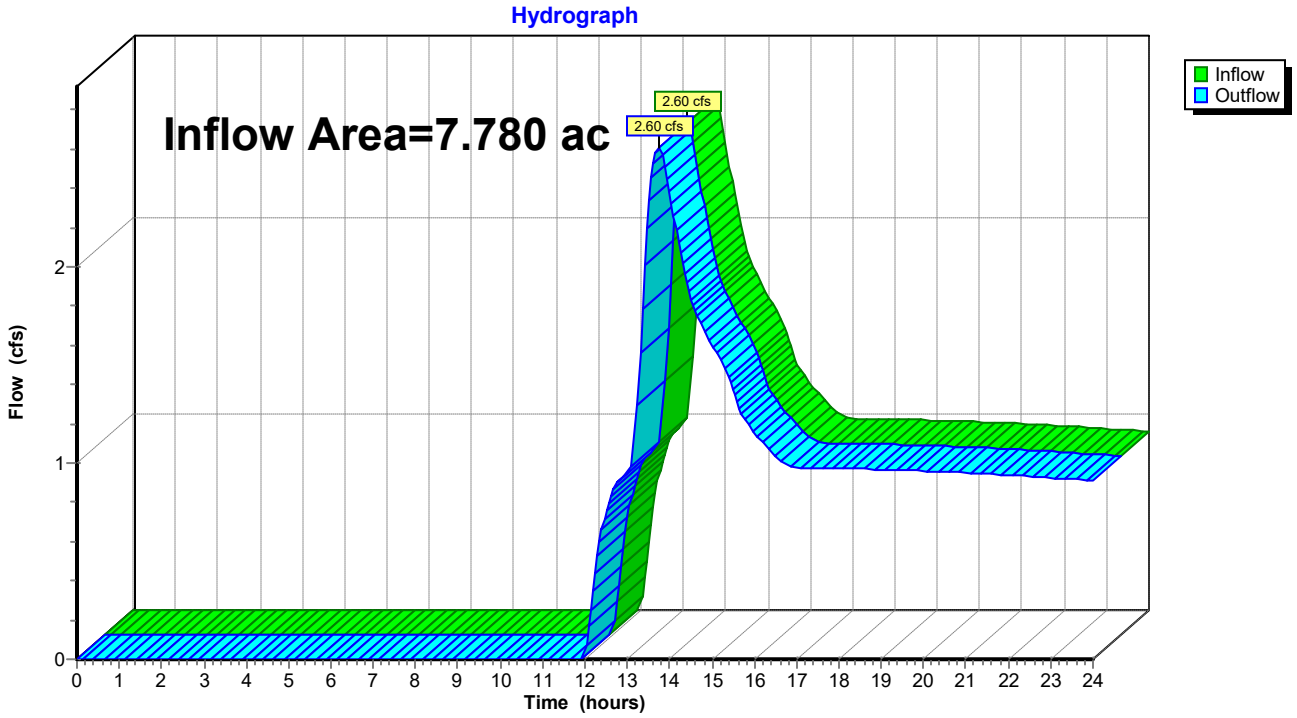
Summary for Reach Proposed: Proposed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 7.780 ac, 0.00% Impervious, Inflow Depth > 1.73" for 100-Year event
Inflow = 2.60 cfs @ 13.73 hrs, Volume= 1.124 af
Outflow = 2.60 cfs @ 13.73 hrs, Volume= 1.124 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Reach Proposed: Proposed



Summary for Pond 2P: East Pond

Inflow Area = 5.940 ac, 0.00% Impervious, Inflow Depth > 4.99" for 100-Year event
Inflow = 27.15 cfs @ 12.38 hrs, Volume= 2.468 af
Outflow = 2.45 cfs @ 13.73 hrs, Volume= 0.971 af, Atten= 91%, Lag= 81.3 min
Primary = 0.83 cfs @ 13.73 hrs, Volume= 0.775 af
Routed to Reach Proposed : Proposed
Secondary = 1.62 cfs @ 13.73 hrs, Volume= 0.196 af
Routed to Reach Proposed : Proposed

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 796.76' @ 13.73 hrs Surf.Area= 0.450 ac Storage= 1.812 af

Plug-Flow detention time= 335.3 min calculated for 0.971 af (39% of inflow)
Center-of-Mass det. time= 244.2 min (1,039.5 - 795.3)

Volume	Invert	Avail.Storage	Storage Description
#1	791.00'	1.922 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

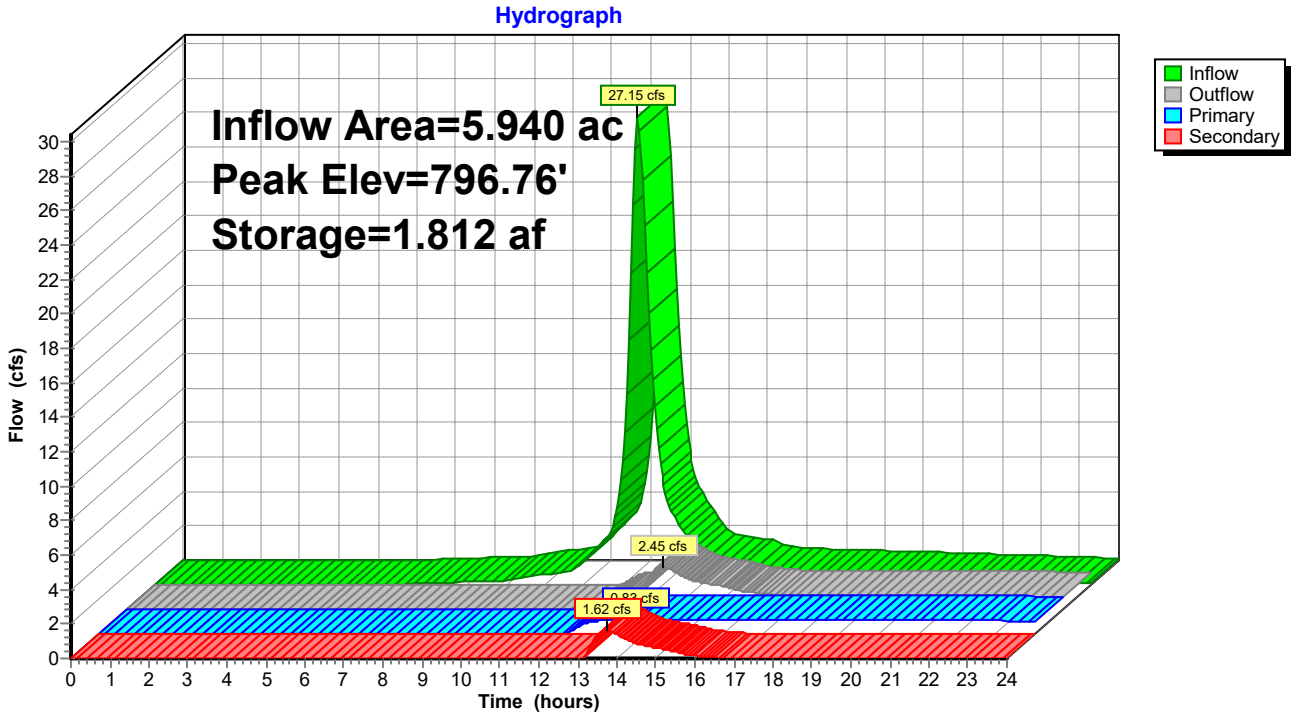
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
791.00	0.175	0.000	0.000
792.00	0.228	0.201	0.201
793.00	0.276	0.252	0.453
794.00	0.316	0.296	0.749
795.00	0.368	0.342	1.092
796.00	0.416	0.392	1.484
797.00	0.461	0.439	1.922

Device	Routing	Invert	Outlet Devices
#1	Primary	791.14'	**12.0" Round RCP_Round 12"** L= 50.0' RCP, sq.cut end projecting, Ke= 0.500 Inlet / Outlet Invert= 791.14' / 790.55' S= 0.0118 '/' Cc= 0.900 n= 0.014 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	787.71'	**12.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 2	790.59'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 3	792.67'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	796.59'	**8.7' long x 50.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=0.83 cfs @ 13.73 hrs HW=796.76' (Free Discharge)
└**1=RCP_Round 12"** (Passes 0.83 cfs of 7.89 cfs potential flow)
└**2=Orifice/Grate** (Passes 0.83 cfs of 8.96 cfs potential flow)
└**3=Orifice/Grate** (Passes 0.83 cfs of 1.00 cfs potential flow)
└**4=Orifice/Grate** (Orifice Controls 0.83 cfs @ 9.54 fps)

Secondary OutFlow Max=1.61 cfs @ 13.73 hrs HW=796.76' (Free Discharge)
└**5=Broad-Crested Rectangular Weir** (Weir Controls 1.61 cfs @ 1.10 fps)

Pond 2P: East Pond



Summary for Pond Pond: West Pond

Inflow Area = 1.840 ac, 0.00% Impervious, Inflow Depth > 4.76" for 100-Year event
Inflow = 8.31 cfs @ 12.37 hrs, Volume= 0.731 af
Outflow = 0.16 cfs @ 18.43 hrs, Volume= 0.153 af, Atten= 98%, Lag= 363.9 min
Primary = 0.16 cfs @ 18.43 hrs, Volume= 0.153 af
Routed to Reach Proposed : Proposed
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach Proposed : Proposed

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 797.54' @ 18.43 hrs Surf.Area= 0.235 ac Storage= 0.606 af

Plug-Flow detention time= 410.6 min calculated for 0.152 af (21% of inflow)
Center-of-Mass det. time= 296.0 min (1,094.7 - 798.7)

Volume	Invert	Avail.Storage	Storage Description
#1	794.00'	0.993 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
794.00	0.103	0.000	0.000
795.00	0.147	0.125	0.125
796.00	0.179	0.163	0.288
797.00	0.215	0.197	0.485
798.00	0.253	0.234	0.719
799.00	0.295	0.274	0.993

Device	Routing	Invert	Outlet Devices
#1	Primary	793.51'	**12.0" Round CMP_Round 12"** L= 140.0' RCP, sq.cut end projecting, Ke= 0.500 Inlet / Outlet Invert= 793.51' / 792.54' S= 0.0069 '/' Cc= 0.900 n= 0.014 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	793.92'	**2.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 2	795.09'	**2.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	798.83'	**11.0' long x 25.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=0.16 cfs @ 18.43 hrs HW=797.54' (Free Discharge)
└**1=CMP_Round 12"** (Passes 0.16 cfs of 4.91 cfs potential flow)
└**2=Orifice/Grate** (Passes 0.16 cfs of 0.20 cfs potential flow)
└**3=Orifice/Grate** (Orifice Controls 0.16 cfs @ 7.40 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=794.00' (Free Discharge)
└**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond Pond: West Pond