



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 SW ¼ Section Name of Business/Subdivision Fairchild Equipment
36
Property Tax ID Number MNFV0143999 Address of Property N52W13821 Northpark Dr
041
Date Menomonee Falls, WI 53051

Dry Pond	x
Wet Pond	
Other	

Location of Pond SE side of property
Pond ID: SWP365007

Year Pond Constructed 2016 Year of Last Certification 2016

Compliance Verification	Design	Actual	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	10"	8" HDPE		X	-All elevations are based on vertical datum NGVD29. -See attached detail
Upstream Invert	764.60	764.54	X		
Downstream Invert	764.31	764.28	X		
Length (feet)	76.1'	76.1'	X		
Slope (%)	0.38%	0.34%	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)	10"	8"		X	8" HDPE vertical pipe inside of 15" HDPE pipe
Elevation	767.00	767.45		X	
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	15"	15"	X		Steel open grate on top of 15" HDPE pipe
Elevation	767.82	767.63	X		

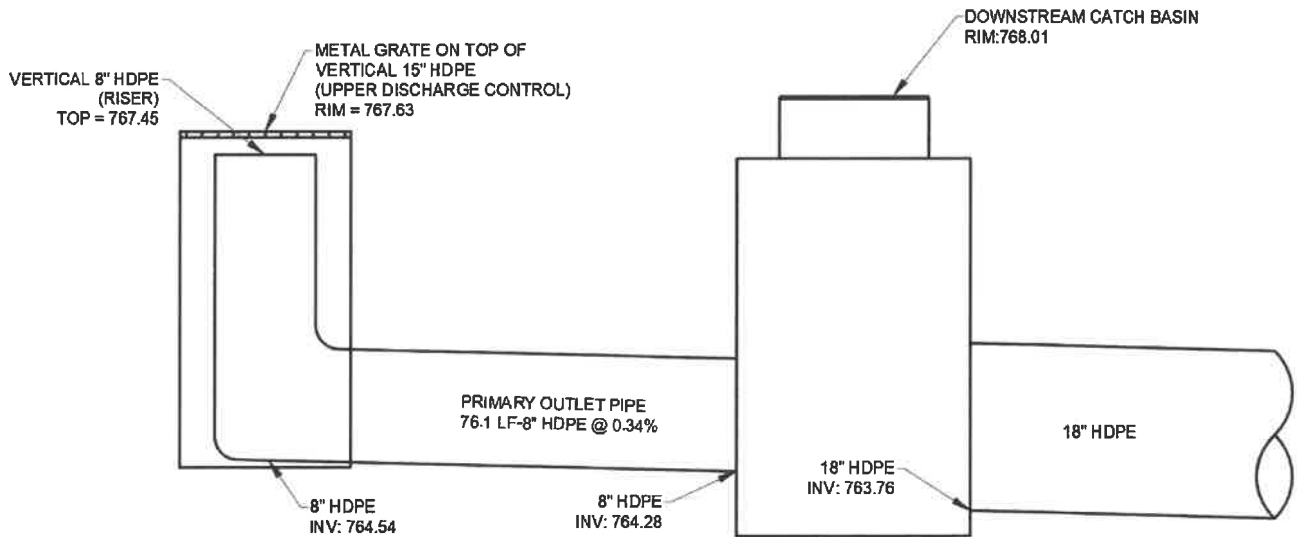
Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)						
Elevation						
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	768.00	768.31		x	Elevation is lowest elevation along the top of embankment. No defined spillway around the pond	
Length of spillway (feet)	10'	-		X	Lowest elevation not located in design spillway location.	
Embankment	Present Yes 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" CMP		Southeast corner of pond			
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)					NA	GPS and Civil 3D Rim elevation of outlet structure -Pond depths measured from lowest top of embankment elevation
Design High Water Elevation	767.82	767.63		X		
Area at Normal Water Elevation (Ac) (Wet Ponds)					NA	
Area at Design High Water Elevation (Ac)	0.135	0.129	X			
Active Storage Available (Ac-Ft)*	0.438	0.415	X			
Lowest Elevation at Top of Embankment (If Applicable)	768.50	768.31	X			
Average Elevation at Top of Embankment (If Applicable)	768.50	768.75		X		
Maximum Bottom Elevation	766.00	765.83	X			
Average Pond Bottom Elevation	766.00	765.88	X			
Pond Bottom Area (Ac)	0.01	0.01	X			
Maximum Pond Depth	2.50'	2.48'	X			
Average Pond Depth	2.50'	2.43'	X			
Average Permanent Pool Depth (Wet Ponds)					NA	

*To Determine Active Storage $V=(H/3)(A1+A2+(\sqrt{A1A2}))$

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



Not to Scale

See attached sheets for site photos

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

Inspection Firm: Ayres Associates
Phone Number: (262)-523-4488
Address: 20975 Swenson Drive
Suite 200
Waukesha WI, 53186

Inspector Name: Austin Johrendt
Inspection Date: 10/20/2021

Certifying Professional
Name: Austin Johrendt
Phone Number: (262)-523-4488



Date: <u>Nov. 10, 2021</u>	Signature: <u>Austin Johrendt</u>
-------------------------------	--------------------------------------



Dry detention basin outlet structure located at north side of the basin. Steel grate on top of vertical 15" CPP pipe with vertical 8" CPP inside.



Dry detention basin looking south with landscaping down the middle.



West side top of berm looking south.



12" CMP storm sewer outfall pipe located in the southeast corner of the detention basin.