



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 \_\_\_\_\_  
Property Tax ID Number \_\_\_\_\_  
Date 8/5/2021 \_\_\_\_\_

SE 1/4 Sect. 29 \_\_\_\_\_ Name of Business/Subdivision Spencer's Pass East Subdivision  
0116-059 \_\_\_\_\_ Address of Property Fox River Way  
\_\_\_\_\_  
Menomonee Falls 53051

Dry Pond		Location of Pond	Northeastern portion of Spencer's Pass Subdivision. North of Fox River Way.
Wet Pond	X		
Other		Pond ID: <u>SWP29S001</u>	

Year Pond Constructed 2005 Year of Last Certification 2016

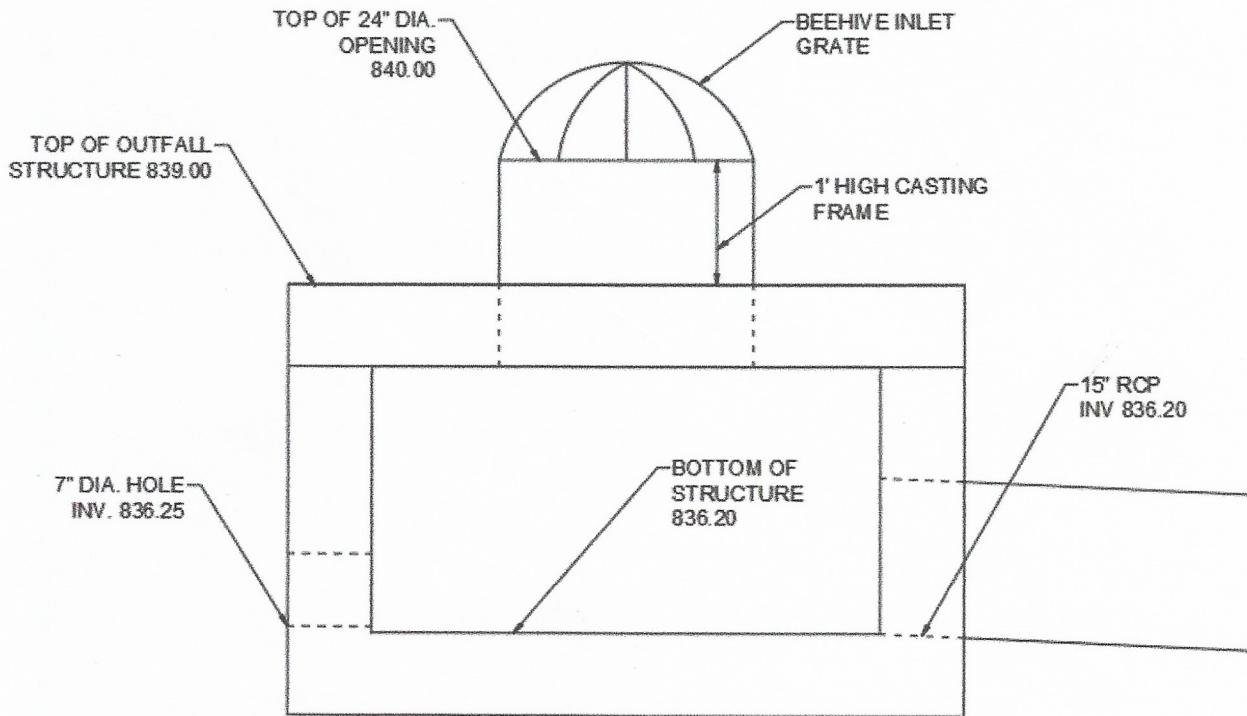
Compliance Verification		Design	Actual	Compliant Yes	No	Comments (Condition of Structure)	
<b>Primary Outlet Pipe</b>						Outlet Pipe Material	
Opening Diameter (inches)		15"	15" rcp	X			
Upstream Invert		836.2	836.20	X			
Downstream Invert		-	835.88	?			
Length (feet)		-	78'	?			
Slope (%)		-	0.41%	?			
<b>Secondary Outlet Pipe</b>		(If Applicable)			Outlet Pipe Material		
Opening Diameter (inches)							
Upstream Invert							
Downstream Invert							
Length (feet)							
Slope (%)							
<b>Riser</b>		(If Applicable)			Riser Material		
Opening Diameter (inches)		24"	24"		concrete		
Elevation		840.00	840.00		No maintenance required		
<b>Upper Discharge Control</b>		(If Applicable)					
Opening Diameter (inches)							
Elevation							

Compliance Verification	Design	Actual	Compliant Yes	No	Comments			
<b>Lower Discharge Control</b>	(If Applicable)							
Opening Diameter (inches)	7"	7"	X		No maintenance required			
Elevation	836.20	836.25	X					
<b>Other (Description)</b>								
Opening Type and Size (inches)								
Elevation								
<b>Emergency Spillway</b>								
Elevation	844.75	844.72	X		No maintenance required			
Length of spillway (feet)	10'	10'	X					
<b>Embankment</b>	Present Yes      no		Comments/Maintenance Requirements					
Unauthorized Plantings, trees, or woody vegetation		X	No maintenance required					
Animal burrows or slope erosion		X						
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments			
Outfall 1	48" RCP		SW Corner of pond					
Outfall 2								
Outfall 3								
<b>Storage Properties</b>	Design	Actual	Compliant Yes	No	Not Applicable	Equipment Used Total Station, GPS, Civil3D		
Normal Water Elevation (Wet Ponds)	836.20	836.25	X			Lowest elevation at the top of embankment		
Design High Water Elevation	845.75	845.42		X				
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.52	0.51	X					
Area at Design High Water Elevation (Ac)	1.37	1.44	X					
Active Storage Available (Ac-Ft)*	9.30	8.94		X		4% less storage volume  Lowest surveyed point at the bottom of embankment outside of the spillway. 0.33' lower than design in one location.		
Lowest Elevation at Top of Embankment (If Applicable)	845.75	845.42		X				
Average Elevation at Top of Embankment (If Applicable)	845.75	845.71	X					
Maximum Bottom Elevation	831.20	831.22	X					
Average Pond Bottom Elevation	831.20	831.25	X			Depths measured from average elevation at top of embankment		
Pond Bottom Area (Ac)	0.123	0.124	X					
Maximum Pond Depth	14.55'	14.49'	X					
Average Pond Depth	14.55'	14.51'	X					
Average Permanent Pool Depth (Wet Ponds)	5'	5.03'	X					

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

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{area at normal water elevation}$ ,  $A2 = \text{area at top section}$

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{pond bottom area}$ ,  $A2 = \text{area at top section}$



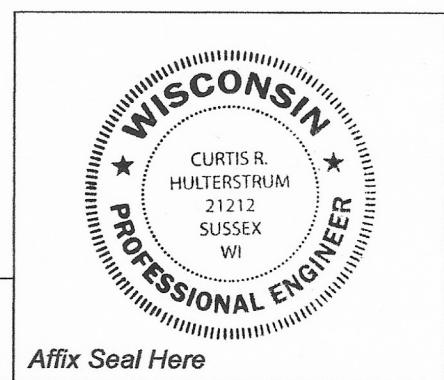
See attached sheets for site photos

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

Inspector Name: Austin Johrendt  
 Inspection Date: 8/5/2021

Certifying Professional Name: Curtis Hulterstrum  
 Phone Number: (262) 523.4488

Date: <u>8/31/21</u>	Signature: <u>Curtis R Hulterstrum</u>
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7" hole in pond outlet structure.



Riprap in emergency spillway along the north side of the pond berm.



Pond looking southwest.



Casting and primary outlet pipe out of outlet structure.



Pond looking south.



Pond looking east.



Inside of outlet structure.