



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. 29 Name of Business/Subdivision Spencer's Pass East Subdivision  
Property Tax ID Number 0116-059 Address of Property Fox River Way  
Date 8/5/2021 Menomonee Falls 53051

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP29S001

Location of Pond Northeastern portion of Spencer's Pass Subdivision. North of Fox River Way.

Year Pond Constructed 2005 Year of Last Certification 2016

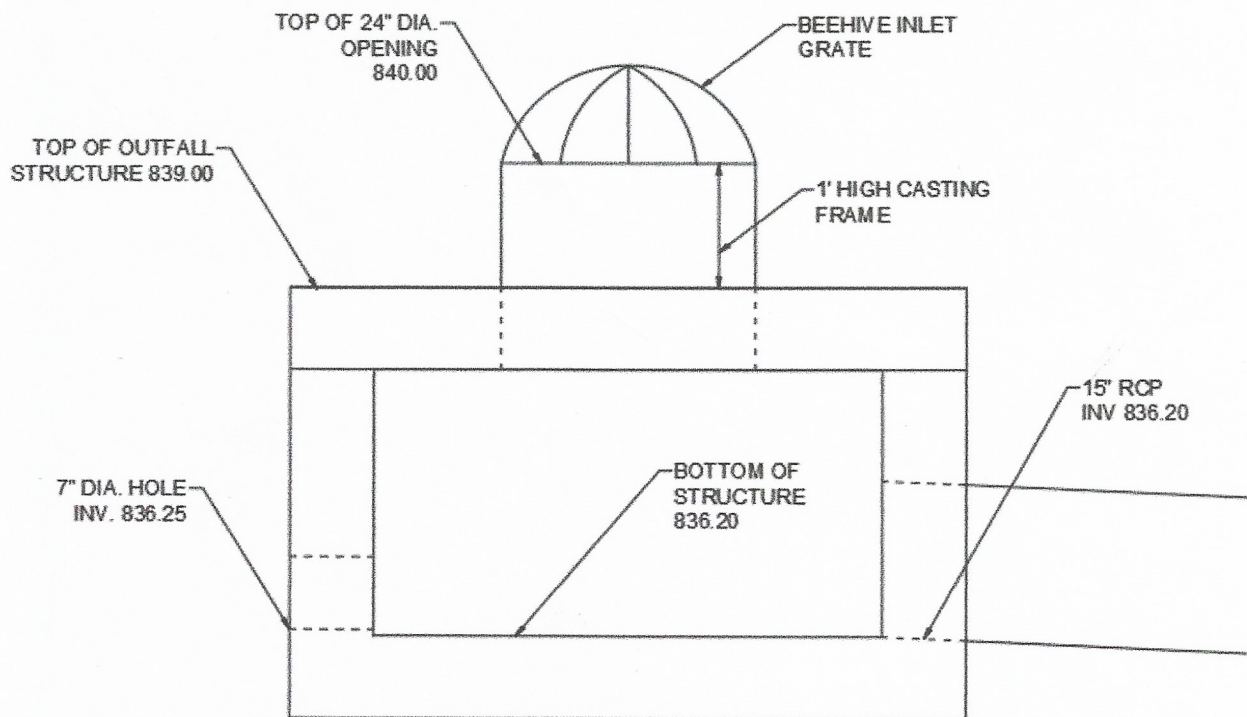
Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>				<b>Outlet Pipe Material</b>
Opening Diameter (inches)	15"	15" rcp	X	Design downstream invert, length and slope are unknown. As-builts for this project were not available and the information was not stated on the previous inspection reports.
Upstream Invert	836.2	836.20	X	
Downstream Invert	-	835.88	?	No maintenance required
Length (feet)	-	78'	?	
Slope (%)	-	0.41%	?	
<b>Secondary Outlet Pipe</b>	(If Applicable)			<b>Outlet Pipe Material</b>
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>	(If Applicable)			<b>Riser Material</b>
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 Elevation at Top of Embankment (If Applicable)	845.75	845.42		X		Lowest surveyed point at the bottom of embankment outside of the spillway. 0.33' lower than design in one location.
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			
Pond Bottom Area (Ac)	0.123	0.124	X			Depths measured from average elevation at top of embankment
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  $V = (H/3)(A1 + A2 + (\sqrt{A1 \cdot A2}))$

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



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 Hultersturm  
 Phone Number: (262).523.4488



Date: 8/31/21

Signature: Curtis R. Hultersturm

Affix Seal Here



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.