



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 7/13/2021

NW ¼ of SEC 12  
MNFV00459  
96005  
8/9/2021

Name of Business/Subdivision  
Address of Property

ER Wagner  
W130N8691 Old Orchard Rd  
Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP 12N014

Location of  
Pond

Southeast corner of property

Year Pond  
Constructed

2016

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)	24"	24"	X		Concrete
Upstream Invert	766.6	766.60	X		
Downstream Invert	766.4	766.37	X		Remove vegetation within riprap limits at downstream end of pipe.
Length (feet)	53.5	53.5'	X		
Slope (%)	0.37%	0.43%	X		
<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)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	24"x36" Grate	24"X36" Grate	X		Concrete structure. Remove nest and vegetation in front of and on the outlet structure grate. Remove sediment from bottom of the structure.
Elevation	768.75- 769.50	768.68- 769.59	X		

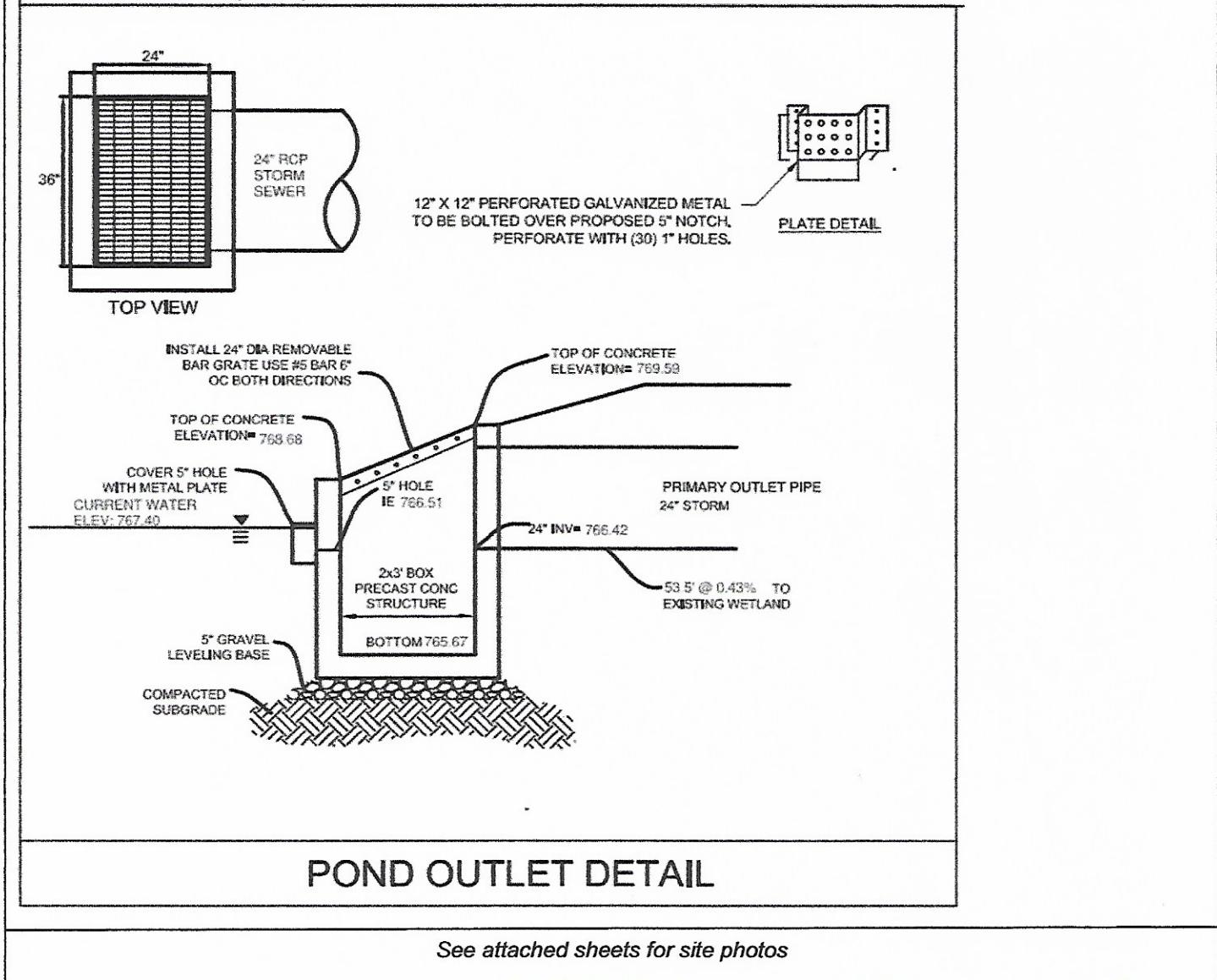
Compliance Verification	Design	Actual	Compliant Yes      No	Comments	
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	5"	5"	X		Remove cattails and other vegetation within 10' in front of pond outlet structure. Remove debris on outlet structure grate.
Elevation	766.6	766.51	X		5" lower discharge opening. Remove vegetation from front plate.
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	771.9	771.44	X		Lowest elevation
Length of spillway (feet)	20'	19'	X		
<b>Embankment</b>	Present Yes      no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	Fill animal burrow along the SE corner of the pond berm.		
Animal burrows or slope erosion	X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	36" Plastic		West side of pond		
Outfall 2					
Outfall 3					
<b>Storage Properties</b>	Design	Actual	Compliant Yes      No	Not Applicable	Equipment Used Total station, GPS, and Civil 3d
Normal Water Elevation (Wet Ponds)	766.6	766.51	X		Top of berm elevation
Design High Water Elevation	773.0	772.80	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.61	0.61	X		
Area at Design High Water Elevation (Ac)	0.94	0.97	X		
Active Storage Available (Ac-Ft)*	4.96	4.97	X		Top of berm area
Lowest Elevation at Top of Embankment (If Applicable)	771.9	771.44	X		
Average Elevation at Top of Embankment (If Applicable)	773.0	772.80	X		
Maximum Bottom Elevation	761.0	760.37	X		
Average Pond Bottom Elevation	761.0	760.60	X		Pond volume from average top of berm to normal water elevation
Pond Bottom Area (Ac)	0.352	0.307	X		
Maximum Pond Depth	12	12.43'	X		
Average Pond Depth	12	12.20'	X		
Average Permanent Pool Depth (Wet Ponds)	5.6'	5.91'	X	Depth from normal water to bottom	

\*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

Outlet structure detail (actual)



See attached sheets for site photos

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

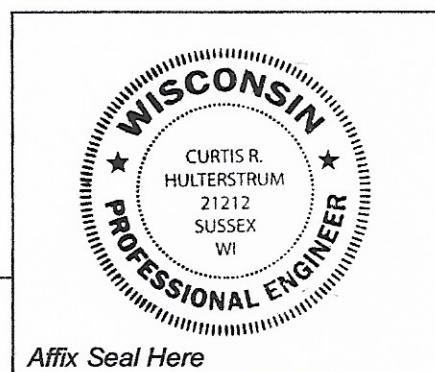
Inspection Firm: Ayres Associates  
 Phone Number: (262)-523-4488  
 Address: 20975 Swenson Drive  
 Suite 200  
 Waukesha WI, 53186

Inspector Name: Austin Johrendt  
 Inspection Date: 7/13/2021

Certifying Professional Name: Curtis Hulterstrum  
 Phone Number: (262)-523-4488

Date: 8/9/21

Signature: *Curtis R Hulterstrum*





24" x 36" pond outlet structure. Maintenance required to remove vegetation in front of structure and remove nest on top of grate.



Site stormwater wet detention pond.



Outlet structure downstream endwall. 24" rcp pipe. Vegetation in front of structure needs to be removed.



Wet detention storm water pond.



Wet detention pond inflow pipe endwall. 36" plastic pipe.



24" rcp pipe out of the pond outlet structure. Some sediment build up in the structures sump that needs to be removed.