



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 NW1/4-SEC  
4 Name of Business/Subdivision Pizzeria UNO  
Property Tax ID Number 0014982 Address of Property W180 N9455 Premier Ln  
Date 06-23-2021 Menomonee Falls, WI 53051  
rev 07-15-2021

Dry Pond		Location of Pond	Northwest corner of property
Wet Pond			
Other	X		

Pond ID: 4N007  
Biofilter

Year Pond Constructed 2006 Year of Last Certification 2012

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					
Opening Diameter (inches)	15"	15"	X		HDPE Pipe in great condition.
Upstream Invert	872.21	872.87	X		
Downstream Invert	871.45	871.79	X		
Length (feet)	69	71	X		
Slope (%)	1.10%	1.52%	X		
<b>Secondary Outlet Pipe</b>	(If Applicable)				
Opening Diameter (inches)	NA	NA			Not Applicable
Upstream Invert	NA	NA			
Downstream Invert	NA	NA			
Length (feet)	NA	NA			
Slope (%)	NA	NA			
<b>Riser</b>	(If Applicable)				
Opening Diameter (inches)	30"	30"	X		Concrete Standpipe w/ concrete base in great condition.
Elevation	879.00	878.71	X		
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	NA	NA			Not Applicable
Elevation	NA	NA			

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)	N/A	N/A				
Elevation	N/A	N/A				
<b>Other (Description)</b>						
Opening Type and Size (inches)	N/A	N/A				
Elevation	N/A	N/A				
<b>Emergency Spillway</b>						
Elevation	880.50	880.55	X			
Length of spillway (feet)	5'	5'	X			
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Woody vegetation present/Recommend removal of woody vegetation (See photo logs)			
Animal burrows or slope erosion		X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	HDPE 15"		NE Corner of pond		No comments	
Outfall 2	Curb Opening		SW Corner of Pond		No comments	
Outfall 3						
<b>Storage Properties</b>	Design	Actual	Compliant Yes No	Not Applicable	Equipment Used	
Normal Water Elevation (Wet Ponds)	N/A	N/A	X		Pond Topographic Survey Provided by Others. Stormwater Management Report provided by others.	
Design High Water Elevation	880.15					
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	N/A				
Area at Design High Water Elevation (Ac)	0.103					
Active Storage Available (Ac-Ft)*	0.254	0.331	X			
Lowest Elevation at Top of Embankment (If Applicable)	880.50	880.55	X			
Average Elevation at Top of Embankment (If Applicable)	880.50	880.62	X			
Maximum Bottom Elevation	878.00	876.93	X			
Average Pond Bottom Elevation	878.00	876.93	X			
Pond Bottom Area (Ac)	0.045	0.69	X			
Maximum Pond Depth	3.0'	4.07'	X			
Average Pond Depth	3.0'	4.07'	X			
Average Permanent Pool Depth (Wet Ponds)	N/A	N/A				

\*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

See Attached

See Attached

See Attached

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

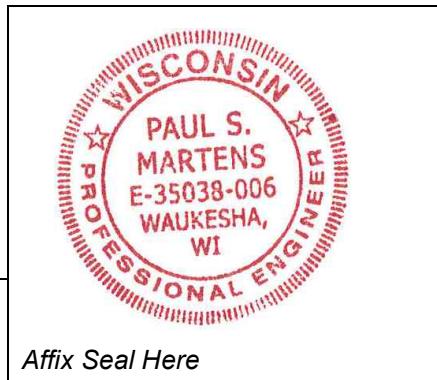
Inspection Firm: JSD Professional Service, Inc  
Phone Number: (262) 513-0666  
Address: W238N1610 Busse Rd, Ste 100  
Waukesha, WI 53188

Inspector Name: Paul S. Martens, P.E.  
Inspection Date: 6/23/2021

Certifying Professional

Name: Paul S. Martens P.E.  
Phone Number: (262) 513-0666

<b>Date:</b>  <u>6/23/2021</u> <u>rev 7/15/2021</u>	<b>Signature:</b>  <u>Paul Martens</u>
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Affix Seal Here



**Figure 1: East corner of Pond, Looking Southwest**



**Figure 2: East corner of Pond, Looking Northwest**



**Figure 3: Southwest corner of Pond, Looking Northeast**



Figure 4: Southwest corner of Pond, Looking North



Figure 5: Southwest corner Pond curb inlet riprap, Looking Northwest



Figure 6: Southwest corner Pond curb inlet riprap, Looking Northwest



**Figure 7: Northeast corner of Pond, Looking Southwest**



**Figure 8: West corner Pond, Looking Northeast**



**Figure 9: Pond outfall, Looking Northeast**



Figure 10: Pond outfall, Looking Northeast



Figure 11: Northeast corner Pond outfall pipe outlet, Looking Southwest



Figure 12: Northeast corner Pond outfall pipe outlet, Looking Southwest



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Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section  
Property Tax ID Number  
Date: Survey- , Site  
Inspection-9/7/21

NW Sec 4  
0014982 Name of Business/Subdivision  
Address of Property

Pizzeria Uno  
W180 N9455 Premier Ln.

Dry Pond	X	Location of Pond	NW Corner of property
Wet Pond			
Other			
Pond ID: SWP 4N007			

Year Pond Constructed 2006 Year of Last Certification 2011

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					
Opening Diameter (inches)	15"	15"	X		HDPE
Upstream Invert	872.21	873.59		X	As-builts for this project were unavailable, design values are based off the report from 2011. Design datum unknown, actual values based on vertical datum NVGD29.
Downstream Invert	871.45	872.49		X	
Length (feet)	69'	71'	X		
Slope (%)	1.10%	1.61%		X	
<b>Secondary Outlet Pipe</b>	(If Applicable)				
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)				
Opening Diameter (inches)	26"	26" dia.	X		RCP structure with beehive storm sewer casting
Elevation	879.00	879.44		X	
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					

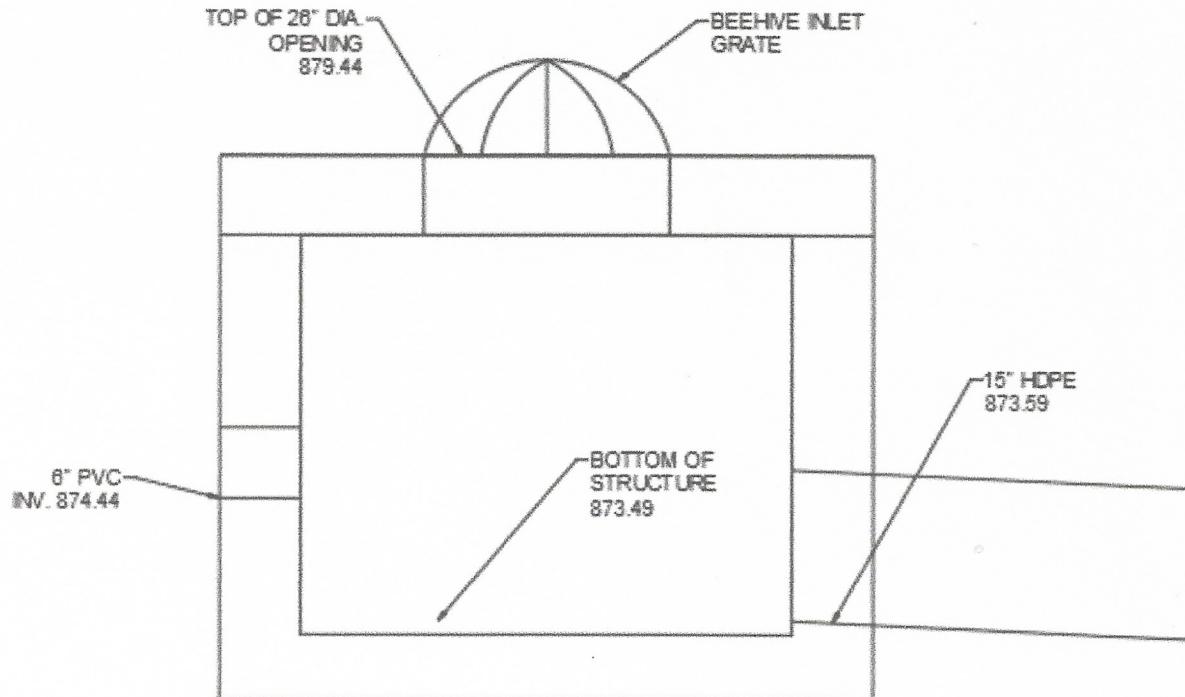
Compliance Verification	Design	Actual	Compliant Yes No		Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	Unknown	6"		X	6" pvc pipe is buried outside of the outlet structure. 6" pipe needs to be exposed to allow the pond to drain at elev. 874.44
Elevation	Unknown	874.44			
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	880.50	880.98		X	
Length of spillway (feet)	5'	5'	X		
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	X		Remove trash and unauthorized vegetation.		
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1					
Outfall 2					
Outfall 3					
<b>Storage Properties</b>	Design	Actual	Compliant Yes No	Not Applicable	Equipment Used Total station, GPS, Civil 3d
Normal Water Elevation (Wet Ponds)	Unknown	879.44	?		Outlet structure opening elevation Lowest elevation at the top of embankment
Design High Water Elevation	Unknown	881.09	?		
Area at Normal Water Elevation (Ac) (Wet Ponds)	Unknown	0.08	?		
Area at Design High Water Elevation (Ac)	Unknown	0.12	?		
Active Storage Available (Ac-Ft)*	Unknown	0.29	?		
Lowest Elevation at Top of Embankment (If Applicable)	Unknown	881.09	?		Lowest surveyed point at the top of the embankment outside of the spillway.
Average Elevation at Top of Embankment (If Applicable)	Unknown	882.15	?		
Maximum Bottom Elevation	Unknown	877.61	?		
Average Pond Bottom Elevation	Unknown	877.84	?		
Pond Bottom Area (Ac)	Unknown	0.06	?		
Maximum Pond Depth	Unknown	1.83	?		Normal water elev.-max. bottom elev. Normal water elev.-average bottom elev.
Average Pond Depth	Unknown	1.60	?		
Average Permanent Pool Depth (Wet Ponds)	NA	NA			

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

Sketch Outlet or Attach to Document



See attached sheet 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 Dr  
Suite 200  
Waukesha, WI 53186

Inspector Name : Austin Johrendt  
Inspection Date:

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



Date: 9/30/21	Signature: Curt Hulterstrum
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Dry detention pond looking north



Riprap around outfall structure



Bottom of pond



Pond looking west