



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 11/14/2016

SW 1/4 Sec 33 Name of Business/Subdivision Cranes Crossing
0131038 Address of Property N48 W18200 Lisbon Road

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP 33s004 Location of Pond SW corner of Green Crane Drive & Cranes Crossing Blvd.

Pond P2E

Year Pond Constructed 2005

Year of Last Certification 2010

Compliance Verification	Design	Actual	Compliant Yes	Comments (Condition of Structure)
Primary Outlet Pipe	Outlet Pipe Material			
Opening Diameter (inches)	18"	18"	X	RCP
Upstream Invert	876.75	876.86	X	
Downstream Invert	876.45	876.17	X	
Length (feet)	193.63	167.7	X	
Slope (%)	0.284	0.411	X	
Secondary Outlet Pipe	(If Applicable)			
Opening Diameter (inches)				Not Applicable (NA)
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
Riser	(If Applicable)			
Opening Diameter (inches)	48"	48"	X	Precast Reinforced concrete
Elevation	878.70	879.06	X	
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)				NA
Elevation				

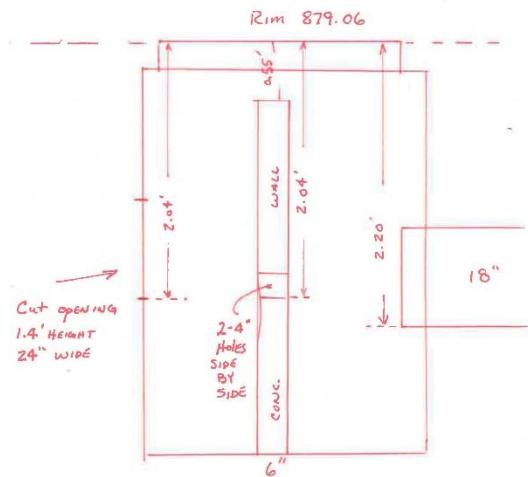
Compliance Verification	Design	Actual	Compliant Yes	No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	24"x15"	24"x17"	X		Debris screen over rectangular opening
Elevation	877.00	877.02	X		
Other (Description)					
Opening Type and Size (inches)	2-4" dia.	2-4" dia.	X		Two orifices
Elevation	877.00	877.02	X		
Emergency Spillway					
Elevation	884.29	883.4±		X	
Length of spillway (feet)	10.0	4±		X	
Embankment	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	Mowed lawn		
Animal burrows or slope erosion		X			
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1	30" RCP		East side		From Pond P2E
Outfall 2	12" RCP		North side		
Outfall 3	24" RCP		Northwest corner		
Outfall 4	21" CMP		Northeast corner		
Storage Properties	Design	Actual	Compliant Yes	No	Equipment Used
Normal Water Elevation (Wet Ponds)	877.00	877.02	X		Total station & GPS
Design High Water Elevation	884.29	883.4	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.4316	0.514	X		
Area at Design High Water Elevation (Ac)	1.0560	0.921	X		
Active Storage Available (Ac-Ft)*	3.9856	3.56	X		
Lowest Elevation at Top of Embankment (If Applicable)	885.2	883.3		X	
Average Elevation at Top of Embankment (If Applicable)	885.22	884.5		X	
Maximum Bottom Elevation	870.0	870.0	X		
Average Pond Bottom Elevation	870.7	872.0	X		
Pond Bottom Area (Ac)	0.0361	0.303	X		
Maximum Pond Depth	7.00	7.0	X		
Average Pond Depth	6.3	5.0	X		
Average Permanent Pool Depth (Wet Ponds)	6.3	5.0	X		HyDrone-Remote Control Survey Boat Platform

*To Determine Active Storage $V=H/3(A1+A2+(A1xA2)1/2)$

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



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

Inspection Firm: R.A. Smith National, Inc.
 Phone Number: 262-781-1000
 Address: 16745 W. Bluemound Road
Brookfield, WI 53005

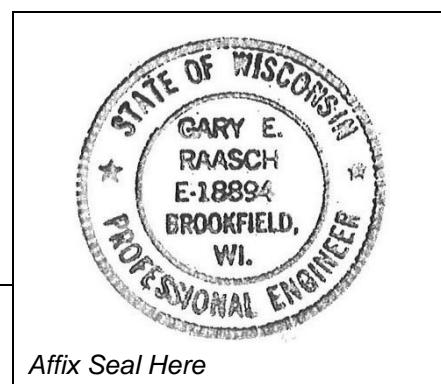
Inspector Name : Gary E. Raasch
 Inspection Date: September 20, 2016

Certifying Professional

Name: Gary E. Raasch
 Phone Number: 262-317-3369

Date:
 November 14, 2016

Signature:



Affix Seal Here