



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 NE 1/4 of Sec. 33 Name of Business/Subdivision Quail Haven Addition No. 1
 Property Tax ID Number MNFV0129996001 Address of Property Part of the SW 1/4 + SE 1/4 of the NE 1/4 of Sec. 33 T8N, R20E

Dry Pond	
Wet Pond	X
Other	

Description: 33N003 Location Of Pond Northwest Corner of Subdivision near Marcy Rd.
Described as Pond 2 in March 2011 Stormwater Report Asbuilt

Year Pond Constructed 2011 Year of Last Certification —

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter	12"	12"	X		
Upstream Invert	860.00	860.38	X		
Downstream Invert	859.50	859.89	X		
Length	96	94	X		
Slope	0.52%	0.52%	X		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
Riser (If Applicable)					
Opening Diameter	18"	20"	X		For design, 18" was in Pond Pack calls although a 20" structure was called out on plans.
Elevation	864.0	864.42	X		
Upper Discharge Control (If Applicable)					
Opening Diameter					
Elevation					

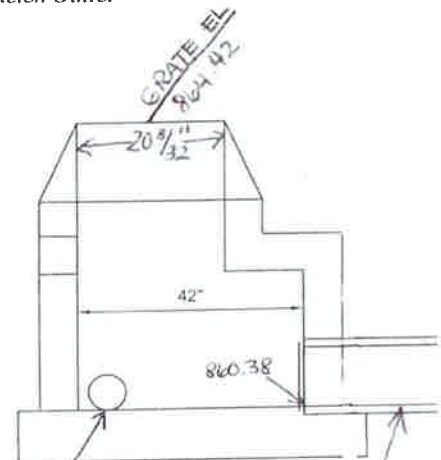
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter	6"	6"	X			
Elevation	860.00'	860.41'	X			
Other (Description)						
Opening Type						
Elevation						
Emergency Spillway						
Elevation	869.50'	869.70'	X			
Length of spillway	15'	15'	X			
Embankment			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation				X	General landscaping located higher along banks.	
Animal burrows or slope erosion				X		
Storage Properties	Design	Actual	Compliant		Points Surveyed	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)	860.0'	860.4'	X		X	GPS
Design High Water Elevation	871.5'	871.3'	X		X	GPS
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.233	0.244	X		X	Used CAD to determine area from points surveyed
Area at Design High Water Elevation (Ac)	0.971	0.983	X		X	"
Active Storage Available (Ac-Ft)*	5.049	4.896	X			GPS
Lowest Elevation at Top of Embankment (If Applicable)	869.50'	869.70'	X		X	GPS
Average Elevation at Top of Embankment (If Applicable)	871.50'	871.30'	X		X	GPS
Maximum Bottom Elevation	855.0'	855.03'	X		X	GPS
Average Pond Bottom Elevation	855.0'	855.08'	X		X	GPS
Pond Bottom Area (Ac)	0.0600	0.0593	X		X	Used CAD to determine area from points surveyed
Maximum Pond Depth	5.0'	5.37'	X		X	GPS
Average Pond Depth	5.0'	5.32'	X		X	GPS

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

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



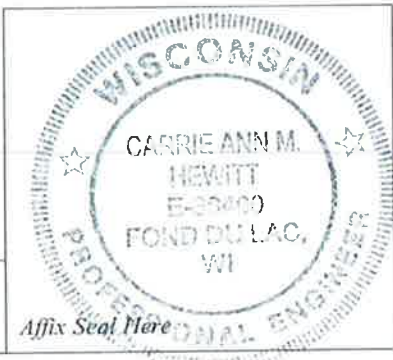
1-6" DIA ORIFICE 860.41
WEST PIANO 3 OUTLET STRUCTURE DETAIL NOT TO SCALE

94' 12" CLV REP STORM @ 0.52%



Inspection Firm: Jahnke + Jahnke Assoc. Inspector Name: Larry Buyatt + Hans Hallanger, P.E.
 Phone Number: 262-542-5797 Inspection Date: 2011 + again 11-5-2013 by Jim Bergstrom
 Address: 711 W. Moreland Blvd.
Waukesha, WI 53188

Certifying Professional Name: Carrie Ann M. Hewitt, P.E.
 Phone Number: 262-542-5797



Date: 11-12-13

Signature: Carrie Ann M. Hewitt



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Quarter Section 33 Name of Business/Subdivision Quail Haven
 Property Tax ID Number 0129996 Address of Property W180 N5374 Marcy Rd

Dry Pond	
Wet Pond	X
Other	

Description: 33N004 East Pond Asbuilt Location Of Pond Outlot 2 of Quail Haven.
 East side of site, south of
 Ridgeline Trail, East of
 Highridge Drive

Year Pond Constructed 2011 Year of Last Certification 2011

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter	30	30	X		South pipe in good condition
Upstream Invert	877.00	877.01	X		
Downstream Invert	876.85	876.78	X		
Length	40	37	X		
Slope	0.37%	0.62	X		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter	30	30	X		North pipe in good condition
Upstream Invert	877.00	876.98	X		
Downstream Invert	876.85	876.80	X		
Length	40	37	X		
Slope	0.37	0.49	X		
Riser (If Applicable)					
Opening Diameter	2' x12'	2' x12'	X		Good
Elevation	880.93	880.90	X		
Upper Discharge Control (If Applicable)					
Opening Diameter	4"	4"	X		Good
Elevation	878.10	878.09	X		

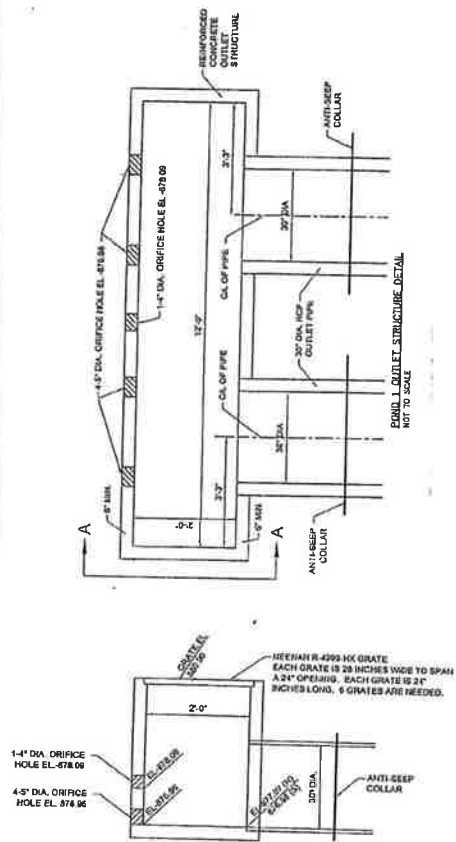
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter	5" (4 holes)	5" (4 holes)	X			
Elevation	877.00	876.96	X			
Other (Description)						
Opening Type	NA	NA				
Elevation	NA	NA				
Emergency Spillway						
Elevation	881.53	881.40	X			
Length of spillway	25	22	X			
Embankment			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation	No	No		X		
Animal burrows or slope erosion	No	No		X		
Storage Properties	Design	Actual	Compliant		Points Surveyed	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)	877.00	876.98	X			GPS
Design High Water Elevation	881.04	881.04	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.665	0.665	X			
Area at Design High Water Elevation (Ac)	1.1785	1.1785	X			
Active Storage Available (Ac-Ft)*	3.01	3.01	X			
Lowest Elevation at Top of Embankment (If Applicable)	NA	NA	X			
Average Elevation at Top of Embankment (If Applicable)	883.50	883.50	X			
Maximum Bottom Elevation	865.00	864.90	X			
Average Pond Bottom Elevation	865.00	864.90	X			
Pond Bottom Area (Ac)	0.12	0.12	X			
Maximum Pond Depth	12	12	X			
Average Pond Depth	12	12	X			

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

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



Inspection Firm: Jahnke & Jahnke Associates, Inc Inspector Name: Hans D. Hallanger, P.E.
 Phone Number: 262-542-5797 Inspection Date: 12/13/11
 Address: 711 W. Moreland Blvd.
Waukesha, WI 53188

Certifying
 Professional Name: Hans D. Hallanger, P.E.
 Phone Number: 262-542-5797



Date: 12-26-11 Signature: Hans D. Hallanger

Affix Seal Here