



10-9-2012

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		Name of Business/Subdivision	Harley Davidson Pilgrim Road LLC
Property Tax ID Number	MNFV00079 99002	Address of Property	W156 N9000 Pilgrim Road
Date	10/9/12		

Dry Pond	<input checked="" type="checkbox"/>		Location of Pond	Located by NE corner of facility
Wet Pond	<input type="checkbox"/>			
Other	<input type="checkbox"/>	Pond ID: SWP02s001		

Year Pond Constructed	2007?	Year of Last Certification
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Compliance Verification	Design	Actual	Compliant Yes	Non-Compliant No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	??	10"			PVC; good condition
Upstream Invert	??	772.7			
Downstream Invert	??	773.8			
Length (feet)	25'	25'			
Slope (%)	??	1.2%			
<b>Secondary Outlet Pipe</b>	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X		Concrete; good condition
Upstream Invert	773.6	773.8	X		
Downstream Invert	772.75	772.8	X		
Length (feet)	89'	89'	X		
Slope (%)	1.02%	1.12%	X		
<b>Riser</b>	(If Applicable)				Riser Material
Opening Diameter (inches)	??	28"			Primary overflow riser - Concrete manhole section with 28" inlet grate; good condition
Elevation	??	776.4			
<b>Upper Discharge Control</b>	(If Applicable)				No upper discharge observed
Opening Diameter (inches)	??	N/A			
Elevation	??	N/A			

Compliance Verification	Design	Actual	Compliant Yes      No	Comments	
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	??	3"			
Elevation	??	775			
<b>Other (Description)</b>					
Opening Type and Size (inches)	??	23"			Secondary overflow riser; concrete manhole section with 23" diameter inlet grate; good condition
Elevation	777.83	777.8	X		
<b>Emergency Spillway</b>					
Elevation		N/A			No apparent spillway provided; secondary overflow riser provided
Length of spillway (feet)		N/A			
<b>Embankment</b>	Present Yes      no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	Embankments in good condition		
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	8" pvc		SW Corner of Basin		Good condition
Outfall 2					
Outfall 3					
<b>Storage Properties</b>	Design	Actual	Compliant Yes      No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)				X	GPS survey unit
Design High Water Elevation	773.66	773.8	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)				X	
Area at Design High Water Elevation (Ac)	0.25	0.28	X		
Active Storage Available (Ac-Ft)*	0.46	0.61	X		
Lowest Elevation at Top of Embankment (If Applicable)				X	
Average Elevation at Top of Embankment (If Applicable)				X	
Maximum Bottom Elevation	776	776.1	X		
Average Pond Bottom Elevation	775.5	775.68	X		
Pond Bottom Area (Ac)	0.15	0.16	X		
Maximum Pond Depth	2.83	2.8	X		
Average Pond Depth	2.33	2.12	X		
Average Permanent Pool Depth (Wet Ponds)				X	

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

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 or Attach to Document

See attached

See attached

Place Photograph of Pond or Attach to Document

See attached

Place Photograph of Pond or Attach to Document

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

Inspection Firm: The Sigma Group  
Phone Number: 414-643-4200  
Address: 1300 W. Canal Street  
Milwaukee, WI 53233

Inspector Name: Kevin Slottke, RLS; James Leedom, P.E.  
Inspection Date: 10/5/12; 10/9/12

Certifying Professional E-24081  
Name: James B. Leedom, P.E.  
Phone Number: 414-643-4200

Date:

10/10/12

Signature:

J. B. L.



10-3-2012



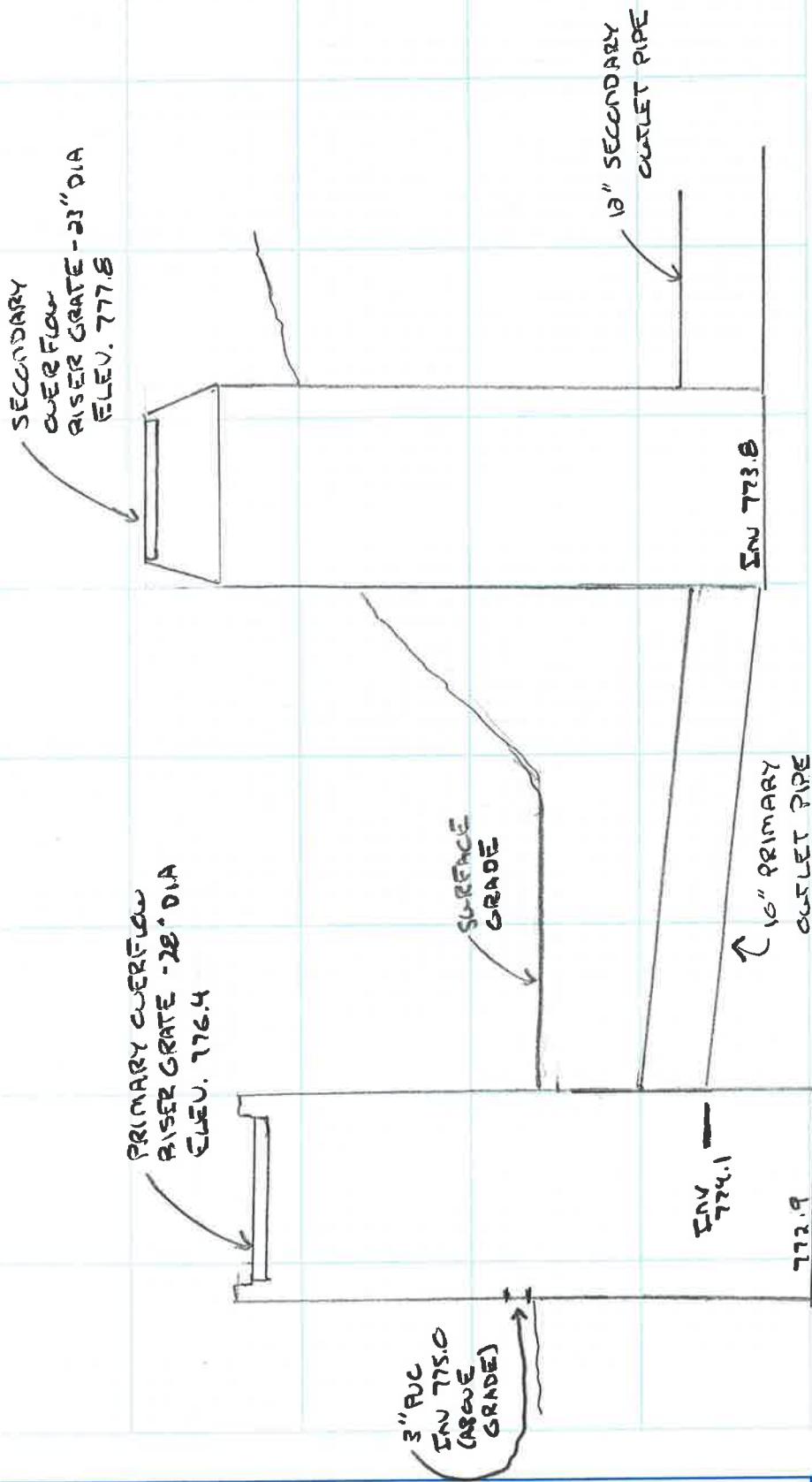
Pond I.D. #SWPO2S001  
Looking west across dry basin



Pond I.D. #SWPO2S001  
Looking east across dry basin

Harley Davidson Ritter Road  
Pond T.D. success 021 - dry detention pond  
Orchard Street bridge sketch

S  
P  
G





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## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section  
Property Tax ID Number

MNFV00079  
99002

Name of Business/Subdivision  
Address of Property

Harley Davidson Pilgrim Road LLC  
W156 N9000 Pilgrim Road

Date 10/9/12

Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP02s002

Location of  
Pond

Located along south side of the  
facility

Year Pond  
Constructed

????

Year of Last  
Certification

????

Compliance Verification	Design	Actual	Compliant Yes      No	Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>				
Opening Diameter (inches)	N/A	N/A		Outlet Pipe Material
Upstream Invert				No pipe outlet provided
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Secondary Outlet Pipe</b>				
Opening Diameter (inches)	N/A	N/A		Outlet Pipe Material
Upstream Invert				No pipe outlet provided
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>				
Opening Diameter (inches)	N/A	N/A		Riser Material
Elevation				No riser pipe provided
<b>Upper Discharge Control</b>				
Opening Diameter (inches)	N/A	N/A		
Elevation	N/A	N/A		

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					
<b>Emergency Spillway</b>					
Elevation	775	773.8			
Length of spillway (feet)	12'	12' approx	X		
<b>Embankment</b>	Present Yes   no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	X		Isolated areas with woody vegetation on north and south embankments and by 72" outfall into pond; small approximate 3'x3' area of erosion on north embankment possibly caused by animal burrows – see photos		
Animal burrows or slope erosion	X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	72" concrete		West end of pond		Outfall section disconnected – see photos
Outfall 2	12" concrete		North side of pond		Outfall section disconnected – see photos
Outfall 3	12" concrete		North side of basin		Good condition
Outfall 4	12" concrete		North side of basin		Submerged
Outfall 5	19"x30" concrete		North side of basin		Outfall section disconnected
Outfall 6	18" PVC		NE side of basin		Good condition
<b>Storage Properties</b>	Design	Actual	Compliant Yes   No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	770	773.7			GPS survey unit for ground shots; depth finder and survey rod for pond bottom
Design High Water Elevation	777.63	777.63			
Area at Normal Water Elevation (Ac) (Wet Ponds)	3.71	4.21			
Area at Design High Water Elevation (Ac)	5.12	4.99			
Active Storage Available (Ac-Ft)*	33.68	18.07			
Lowest Elevation at Top of Embankment (If Applicable)	777.5	776.9			
Average Elevation at Top of Embankment (If Applicable)	??	777.1			
Maximum Bottom Elevation	765	765			
Average Pond Bottom Elevation	764	764.26			
Pond Bottom Area (Ac)	2.79	2.61			
Maximum Pond Depth	12.63	12.63			
Average Pond Depth	13.63	13.37			
Average Permanent Pool Depth (Wet Ponds)	6.00	9.44		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

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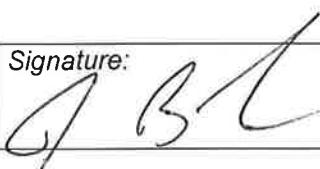
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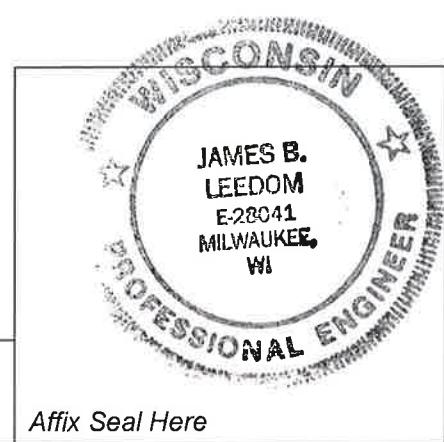
Certifying Professional E-24081  
Name: James B. Leedom, P.E.  
Phone Number: 414-643-4200

Date:

10/12/12

Signature:

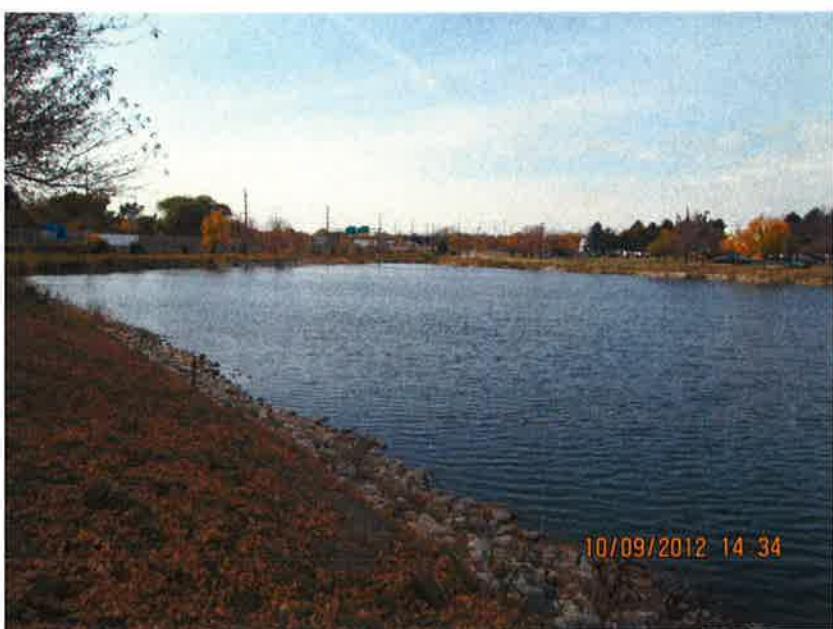




Affix Seal Here



Pond I.D. #SWPO2S002  
Looking east across pond



Pond I.D. #SWPO2S002  
Looking west across pond



Pond I.D. #SWPO2S002  
Disconnected 12-inch outfall to pond



Pond I.D. #SWPO2S002  
Disconnected 72-inch outfall to pond



Pond I.D. #SWPO2S002  
Disconnected 19-inch x 30-inch outfall to pond



Pond I.D. #SWPO2S002  
Localized erosion north side of pond



Pond I.D. #SWPO2S002  
Woody vegetation along north embankment of pond

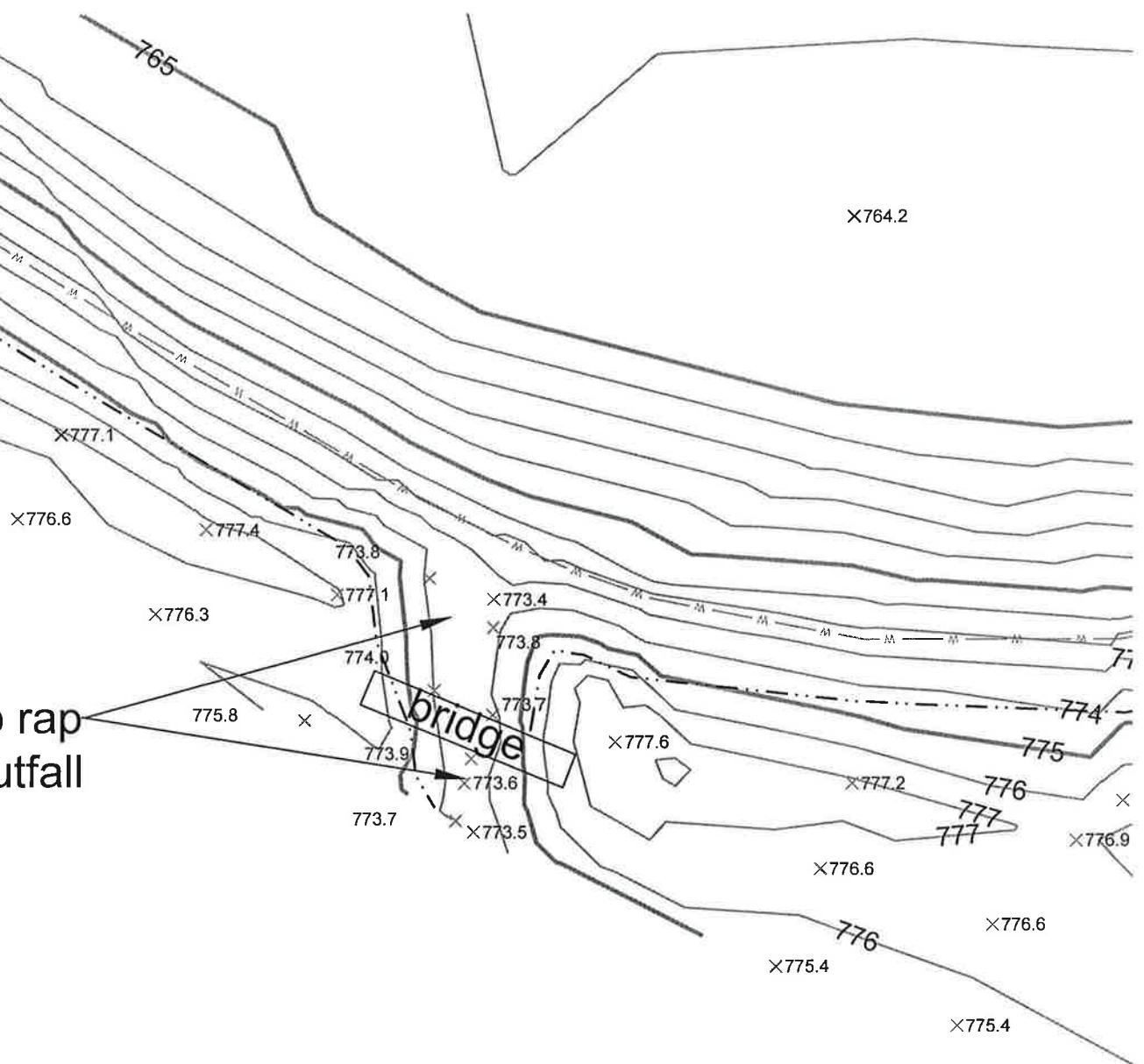


Pond I.D. #SWPO2S002  
Woody vegetation along south embankment of pond



Pond I.D. #SWPO2S002  
Woody vegetation by 72-inch outfall into pond

rip rap  
Outfall



Harley Davidson Motor Company  
Pilgrim Road Facility

DATE: 10/9/12 DRW: KAS 13483-V030-B.dwg

THE **SIGMA** GROUP  
Single Source. Sound Solutions. GROUP

www.thesigmagroup.com  
1300 West Canal Street  
Milwaukee, WI 53233  
Phone: 414-643-4200  
Fax: 414-643-4210

Outfall Detail

FIGURE 1