



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 27 NE Name of Business/Subdivision KOHLER LANE RETENTION POND
Property Tax ID Number 0105997003 Address of Property _____

Dry Pond	
Wet Pond	X
Other	

Description: SWP27N002 Location Of Pond ACROSS FROM
NO PLANS AVAILABLE N60W15979 KOHLER LN
MENOMONEE FALLS, WI 53051

Year Pond Constructed 2001 Year of Last Certification 2007, 2014

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	N/A	15"	-	-	PVC IN GOOD CONDITION
Upstream Invert (ST010732)	N/A	807.95	-	-	
Downstream Invert (ST000709)	N/A	808.12	-	-	Pipe may or may not be back pitched... 2 survey modes used at ST000709.
Length (feet)	N/A	89.6 FT	-	-	
Slope (%)	N/A	-0.002',	-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)	-	-	-	-	
Upstream Invert	-	-	-	-	
Downstream Invert	-	-	-	-	
Length (feet)	-	-	-	-	
Slope (%)	-	-	-	-	
Riser	N/A				Riser Material
Opening Diameter (inches)			-	-	
Elevation			-	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	N/A	818.90	-	-		
Length of spillway (feet)	N/A	72.0 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N	4 FT DIA DEPRESSION N OF KOHLER LN S OF POND NEAR W END			
Animal burrows or slope erosion or hole	Y	-				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST010731)	36" RCP		NW CORNER		GOOD CONDITION	
Outfall 2 (ST010733)	30" PVC		SW CORNER		GOOD CONDITION	
Outfall 3						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	N/A	809.60	-	-		GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v3.2 Bottom of Pond (underwater) not Surveyed.
Design High Water Elevation	814.00	818.90	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	0.537 AC	-	-		
Area at Design High Water Elevation (Ac)	0.9525 AC	2.556 AC	-	-		
Active Storage Available (Ac-Ft)*	3.210 ACFT	14.836 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	814.00	818.90	-	-		
Average Elevation at Top of Embankment (If Applicable)	819.5	819.32	-	-		
Maximum Bottom Elevation	810.00	810.43	-	-		
Average Pond Bottom Elevation	809.50	809.68	-	-		
Pond Bottom Area (Ac)	0.5658 AC	0.538 AC	-	-		
Maximum Pond Depth	4.25 FT	-	-	-		
Average Pond Depth	4.0 FT	9.17 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	N/A	N/A	-	-		DEPTH OF WATER NOT SURVEYED IN 2014

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

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

Kohler Lane Retention Pond – SWP27N002

Overview



Storm Water Outlet ST010733



Storm Water Outlet ST010731



Kohler Lane Retention Pond – SWP27N002

Storm Water Inlet ST010732



Emergency Spillway



Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: 262-532-4411
Address: W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 08/10/2015

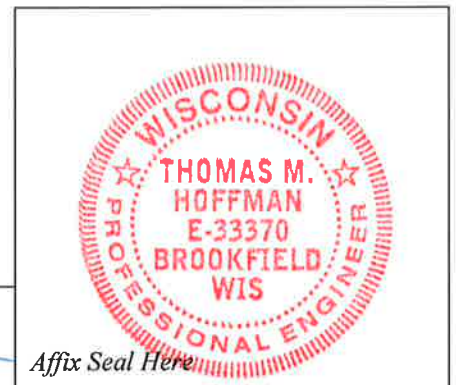
Certifying
Professional Name: Thomas M. Hoffman, P.E.
Phone Number: (262) 532-4415

Date:

2/26/16

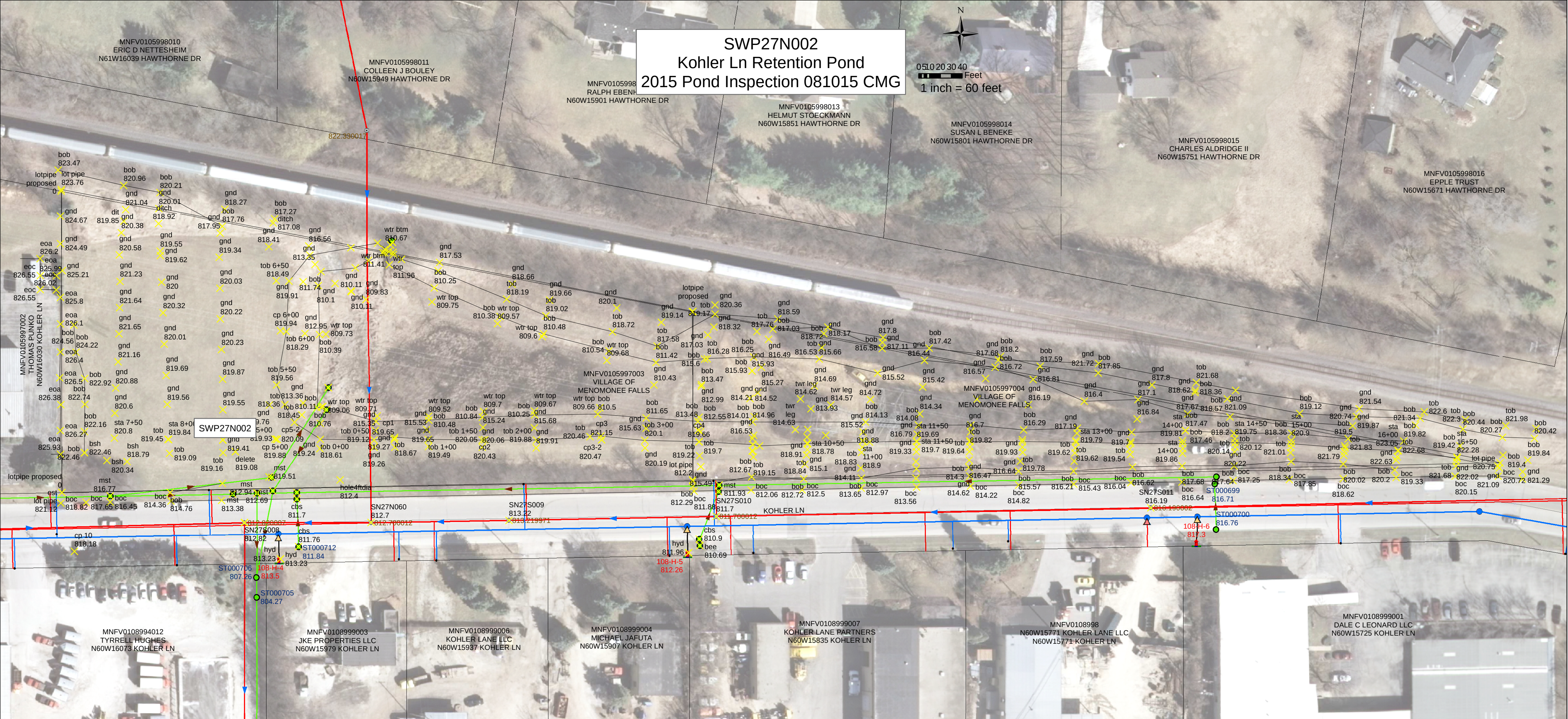
Signature:





SWP27N002
Kohler Ln Retention Pond
2015 Pond Inspection 081015 CMG

0 10 20 30 40
Feet
1 inch = 60 feet



$$H = 88.90 - 80.73 = 9.17'$$

$$A_{\text{wet}} = 23,415.25\text{F} = 0.538\text{AC}$$

$$A_{\text{H}} = 11,325.35\text{F} = 2.556\text{AC}$$

Kohler Ln Pond

$$V = \left(\frac{H}{3}\right)(A_{\text{wet}} + A_{\text{H}} + \sqrt{A_{\text{wet}} + A_{\text{H}}})$$

$$V = \left(\frac{9.17'}{3}\right)(0.538\text{AC} + 2.556\text{AC} + \sqrt{0.538\text{AC} + 2.556\text{AC}})$$

$$V = (3.057')(3.094\text{AC} + \sqrt{3.094\text{AC}})$$

$$V = (3.057')(4.853\text{AC})$$

$$V = \underline{14.836\text{ACFT}}$$

CMG
8/20/15

2015
27N002