



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 15 NE Name of Business/Subdivision HUNTER'S RIDGE ESTATES III
Property Tax ID Number 0057288 Address of Property _____

Dry Pond	X
Wet Pond	
Other	

Description: SWP15N006
P-0066B, U-0272

Location Of Pond NORTHWEST CORNER OF
PILGRIM RD & CROSSWAY DR

Year Pond Constructed 1988 Year of Last Certification 2013

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe (ST012723)					Outlet Pipe Material
Opening Diameter (inches)	10" RCP	12" RCP	-	-	12" RCP IN GOOD CONDITION, REPAIR GAP/SINK HOLE IN JOINT
Upstream Invert	833.50	833.79	-	-	
Downstream Invert	833.25	831.68	-	-	
Length (feet)	104.0 FT	105.6 FT	-	-	
Slope (%)	0.0105',	0.0200',	-	-	
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) (ST012722)	30" X 30"	30" X 30"			REINFORCED CONCRETE/CAST IRON GRATE
Elevation	842.00	841.10			
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	840.00	843.00				
Length of spillway (feet)	10.0 FT	21.0 FT				
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N	REPAIR JOINT GAP/SINK HOLE @ OUTLET PIPE			
Animal burrows or slope erosion or hole	Y	-				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST12724)	RCP - 42"		SOUTH EMBANKMENT		RCP IN GOOD CONDITION	
Outfall 2						
Outfall 3						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-	-	-	N/A	GPS EQUIPMENT: GEOMAX ZENITH35 & CARLSON SURVEYOR2 WITH SURV CE v5.04
Design High Water Elevation	840.00	843.00	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.451 AC	-	-		
Active Storage Available (Ac-Ft)*	-	3.495 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	840.00	843.00	-	-		
Average Elevation at Top of Embankment (If Applicable)	842.00	843.20	-	-		
Maximum Bottom Elevation	834.00	835.87	-	-		
Average Pond Bottom Elevation	834.00	834.50	-	-		
Pond Bottom Area (Ac)	-	0.087 AC	-	-		
Maximum Pond Depth	8.5 FT	9.41 FT	-	-		
Average Pond Depth	6.5 FT	8.50 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

*To Determine Active Storage $V = \left(\left(\frac{H}{3} \right) \left(A_1 + A_2 + \left(\left(A_1 + A_2 \right)^{\wedge} \left(\frac{1}{2} \right) \right) \right) \right)$
 Wet Ponds Use *H* = Height of Section , *A*1= area at normal water elevation, *A*2=area at top section
 Dry Ponds Use *H*= Height of Section, *A*1= pond bottom area, *A*2=area at top section

Hunter's Ridge Estates (Pilgrim & Crossway) Retention Pond - SWP15N006

Overview



Outlet ST012724



Hunter's Ridge Estates (Pilgrim & Crossway)
Retention Pond - SWP15N006

Overflow ST012722



Inlet ST012723



Hunter's Ridge Estates (Pilgrim & Crossway) Retention Pond - SWP15N006

Repairs Needed (8/2018)

- 1) Fix top of RCP
- 2) Fill Sink Hole



Sketch Outlet

Place Photograph of Pond

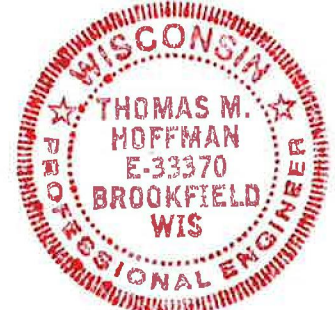
Place Photograph of Pond

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: 08/09/2018

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



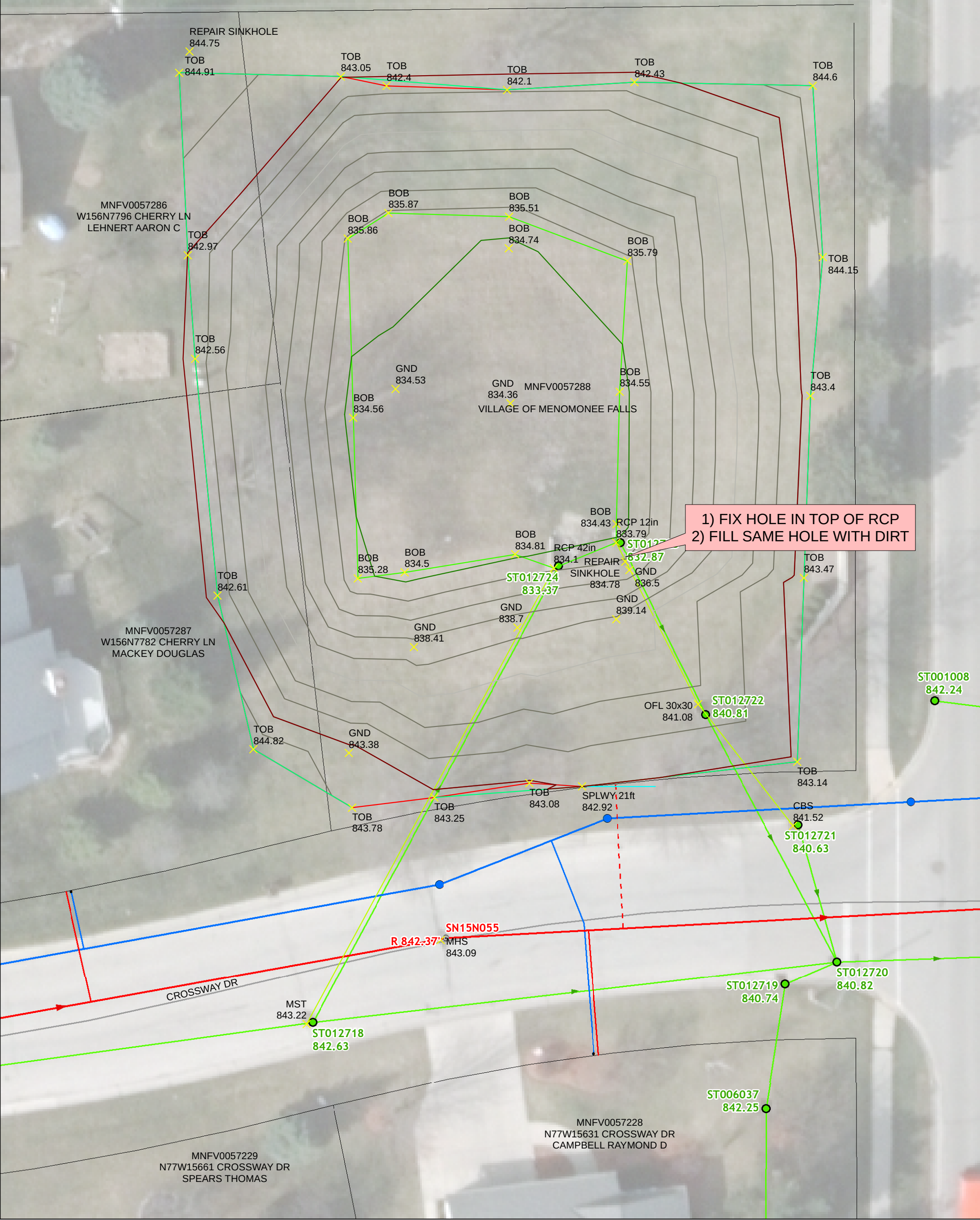
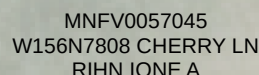
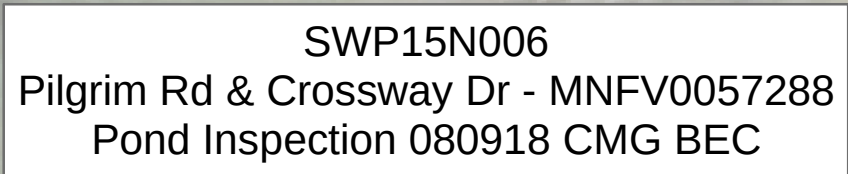
Date:

4/3/2019

Signature:

[Handwritten Signature]

Affix Seal Here



$$H = 843.00 - 834.75 = 8.25'$$

$$A_1 = 0.0865 \text{ AC}$$

$$A_2 = 0.451 \text{ AC} \quad \text{Pilgrimage Crossway}$$

2018

15N006

$$V = \left(\frac{H}{3} \right) (A_1 + A_2 + \sqrt{A_1 + A_2})$$

$$V = \left(\frac{8.25 \text{ FT}}{3} \right) (0.087 \text{ AC} + 0.451 \text{ AC} + \sqrt{0.087 \text{ AC} + 0.451 \text{ AC}})$$

$$V = (2.75 \text{ FT}) (0.538 \text{ AC} + \sqrt{0.538 \text{ AC}})$$

$$V = (2.75 \text{ FT}) (0.538 \text{ AC} + 0.733 \text{ AC})$$

$$V = (2.75 \text{ FT}) (1.271 \text{ AC})$$

$$V = 3.495 \text{ AC FT} \quad \checkmark \quad \text{CNG} \quad 8/16/18$$