



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 11 NW Name of Business/Subdivision VMF COMMUNITY CENTER
 Property Tax ID Number 0042973005 Address of Property W153 N8681 MARGARET RD
MENOMONEE FALLS, WI 53051

Dry Pond	X
Wet Pond	
Other	

Description: SWP11N003

Location Of Pond EAST OF ENTRANCE TO COMMUNITY CENTER OFF OF MENO RVR PKWY

Year Pond Constructed 1995 Year of Last Certification 2010

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe (IN11N008)					Outlet Pipe Material
Opening Diameter (inches)	24"	24"	-	-	24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION
Upstream Invert	759.40	759.34	-	-	24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION
Downstream Invert	758.60	758.84	-	-	24" RCP IN GOOD CONDITION, RIP RAP IN END SECTION
Length (feet)	75.0 FT	70.4 FT	-	-	FROM: COMPLETELY ENCLOSED RCP TO: COMPLETELY ENCLOSED RCP
Slope (%)	0.0080',	0.0071',	-	-	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		Comments	
			Yes	No		
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	-	762.83	-	-	NO SPILLWAY DETAILED IN ORIGINAL PLANS	
Length of spillway (feet)	-	5.0 FT	-	-	NO SPILLWAY DETAILED IN ORIGINAL PLANS	
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N	SIGNIFICANT HOLE REQUIRING ATTENTION AT EASTERLY EDGE OF POND FLOOR			
Animal burrows or slope erosion or hole	Y	-				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (OT11N0140)	RCP - 24"		NORTH EMBANKMENT		RCP IN GOOD CONDITION, RIPRAP IN END SECTION	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-	-	-	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	763.00	762.83	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.175 AC	-	-		
Active Storage Available (Ac-Ft)*	-	0.693 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	763.00	762.52	-	-		
Average Elevation at Top of Embankment (If Applicable)	-	759.75	-	-		
Maximum Bottom Elevation	760.00	759.75	-	-		
Average Pond Bottom Elevation	760.00	760.10	-	-		
Pond Bottom Area (Ac)	-	0.076 AC	-	-		
Maximum Pond Depth	3.0 FT	2.77 FT	-	-		
Average Pond Depth	3.0 FT	2.77 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

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

Wet Ponds Use H = Height of Section, A1 = area at normal water elevation, A2 = area at top section

Drv Ponds Use H = Height of Section. A1 = pond bottom area. A2 = area at top section

Margaret Rd Retention Pond (East) – SWP11N003

Overview



Outlet OT11N040



Margaret Rd Retention Pond (East) – SWP11N003

Inlet IN11N008



Repairs Needed (12/2013)

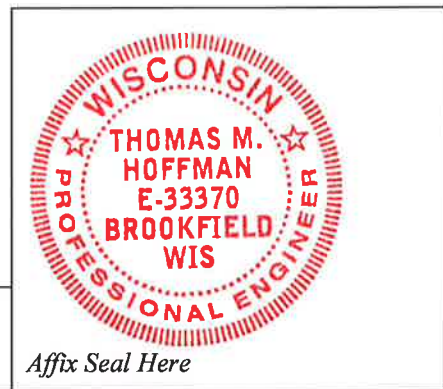
-5.0'x3.0'x1.5'+ deep hole on floor of southeast corner of retention pond



<p><i>Sketch Outlet</i></p>	<p><i>Place Photograph of Pond</i></p>
	<p><i>Place Photograph of Pond</i></p>

Inspection Firm:	<u>VILLAGE OF MENOMONEE FALLS</u>	Inspector Name :	<u>CHRISTOPHER M GARIEPY</u>
Phone Number:	<u>262-532-4411</u>	Inspection Date:	<u>11/14/2013</u>
Address:	<u>W156N8480 PILGRIM RD MENOMONEE FALLS, WI 53051</u>		

Certifying
Professional Name: Thomas M Hoffman
Phone Number: 262-532-4415



<p>Date: <u>7/23/2014</u></p>	<p>Signature: <u>Thomas M Hoffman</u></p>
-------------------------------	---

$$H = (762.52 - 759.75) = 2.77'$$

$$A_1 = 3,289.4 \text{ FT}^2 \left(\frac{1 \text{ AC}}{43,560 \text{ FT}^2} \right) \approx 0.0755 \text{ AC}$$

$$A_2 = \frac{7,635.5 \text{ FT}^2}{43,560 \text{ FT}^2} \left(\frac{1 \text{ AC}}{43,560 \text{ FT}^2} \right) \approx 0.1753 \text{ AC}$$

2013

11W003

Margaret Road Pond - East

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

$$V = \left(\frac{2.77'}{3} \right) (0.0755 \text{ AC} + 0.1753 \text{ AC} + \sqrt{0.0755 \text{ AC} \times 0.1753 \text{ AC}})$$

$$V = (0.923') (0.249 \text{ AC} + \sqrt{0.249 \text{ AC}})$$

$$V = 0.923' (0.7480 \text{ AC})$$

$$V = 0.6907 \text{ AC FT}$$

CRG 1/27/14

$$V = \left(\frac{2.77'}{3} \right) (0.0755 \text{ AC} + 0.1753 \text{ AC} + \sqrt{0.0755 \text{ AC} \times 0.1753 \text{ AC}})$$

$$V = (0.923') (0.2508 \text{ AC} + \sqrt{0.2508 \text{ AC}})$$

$$V = (0.923') (0.7516 \text{ AC})$$

$$V = 0.6937 \text{ AC FT}$$

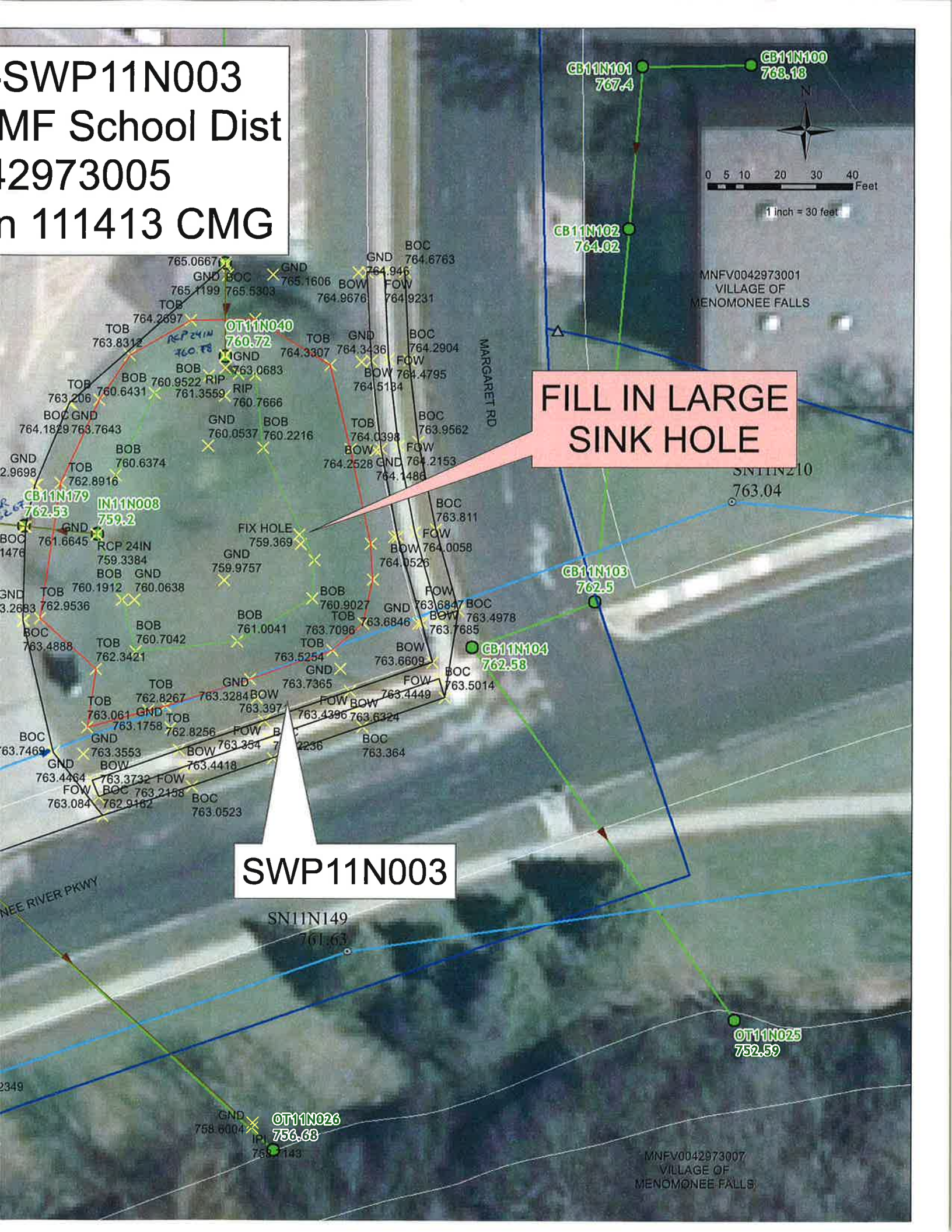
CRG 1/29/14

SWP11N003
MF School Dist
42973005
n 111413 CMG



FILL IN LARGE
SINK HOLE

SWP11N003



2013
GPS

SWP11N002 & SWP11N003 MF SCHOOL DISTRICT RETENTION POND

Locate By Monument

MWF CBR 0042973005

770.57

759.83

RVR
EOP mis bank of
24IN MT
IRON

763.17

764.5

	H	V
<i>monuments</i>	-	V
10NE	-	V
10E	-	-
10SE	H	V
11S	H	V
11SE	-	V
11E	H	-

