



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 14 NW Name of Business/Subdivision PHEASANT HILLS II & III
Property Tax ID Number 0054245 & 0054315 Address of Property _____

Dry Pond	X
Wet Pond	
Other	

Description: SWP14N004
P-0143, U-0289

Location Of Pond SOUTHWEST CORNER OF
CROSSWAY DR &
COUNTRYSIDE DR

Year Pond Constructed 1986 & 1987 Year of Last Certification 2018

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe (ST005347)					Outlet Pipe Material
Opening Diameter (inches)	12" RCP	12" RCP	Y	-	12" RCP IN GOOD CONDITION
Upstream Invert	807.00	807.0	Y	-	
Downstream Invert	806.87	806.42	Y	-	
Length (feet)	15.0 FT	8.0 FT	Y	-	
Slope (%)	0.0087'/',	0.0725'/',	Y	-	
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches) (ST005348)	12" RCP	12" RCP	Y	-	12" RCP IN GOOD CONDITION
Upstream Invert	816.00	816.16	Y	-	
Downstream Invert	811.50	810.93	Y	-	
Length (feet)	30.0 FT	26.9 FT	Y	-	
Slope (%)	0.1500'/',	0.1944'/',	Y	-	
Riser	N/A				Riser Material
Opening Diameter (inches) (YB14N013)	N/A	24"	Y	-	24" DIA. CAST IRON MH ON CONC BASE RIM ELEV: 812.33
Elevation	806.87	812.33	Y	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Pheasant Hills II & III (Crossway & Countryside) Retention Pond - SWP14N004

Overview



ST003127



Pheasant Hills II & III (Crossway & Countryside) Retention Pond - SWP14N004

ST008014, ST005346, ST005347, & ST005348



Pheasant Hills II & III (Crossway & Countryside) Retention Pond -
SWP14N004

Repairs Needed (11/2023)

None

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: 11/16/2023

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



Date:

2/26/2024

Signature:

Affix Seal Here

Acre Feet pond storage volume calculations for:

Deerfield Subd on Crossway Dr
SWP14N004

= Entered Value
= Calculated Value
= Description of Elevations Calculated

Year of Inspection: 2023

Example: $H = H_2 - H_1$, where $H_2 > H_1$

H1 =	<u>808.00</u>	Lower Height Elevation in Feet (Pond Bottom for Dry Pond OR Top of Observed Water Level)
H2 =	<u>816.50</u>	Height at Bottom of Spillway (Wet or Dry)
H3 =	<u>817.00</u>	Higher Height Elevation in Feet (Top of Bank Around Pond - Wet or Dry)
H4 =	<u>0.00</u>	Bottom of Wet Pond Elevation in Feet (Wet Ponds Only)
	Sq.Ft.	Acres
Area 1 =	<u>288.00</u>	<u>0.0066</u> Area of H1
		Area 1 = Area at Pond Bottom for Dry Pond OR Top of Observed Water Level
Area 2 =	<u>14,740.00</u>	<u>0.3384</u> Area of H2
		Area 2 = Area at Bottom of Spillway
Area 3 =	<u>14,740.00</u>	<u>0.3384</u> Area of H2
		Area 3 = Area at Top of Bank
Area 4 =	<u>-</u>	<u>0.0000</u> Area of H3
		Area 4 = Area at Bottom of Pond (Wet Ponds Only)

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Bottom of Spillway:

$$V = (((H_2 - H_1)/3)(A_1 + A_2 + \sqrt{A_1 A_2}))$$

	Feet		Acres		Acres
V=	$((H_2 - H_1)/3)$	x	$(A_1 + A_2)$	+	$\sqrt{A_1 A_2}$
V=	2.8333	x	0.3450	+	0.5874
V=	2.8333	x	0.9324		
V=	2.6417	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Top of Bank at Spillway:

$$V = (((H_3 - H_1)/3)(A_1 + A_3 + \sqrt{A_1 A_3}))$$

	Feet		Acres		Acres
V=	$((H_3 - H_1)/3)$	x	$(A_1 + A_3)$	+	$\sqrt{A_1 A_3}$
V=	3.0000	x	0.3450	+	0.5874
V=	3.0000	x	0.9324		
V=	2.7971	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Water:

$$V = (((H_1 - H_4)/3)(A_1 + A_4 + \sqrt{A_1 A_4}))$$

	Feet		Acres		Acres
V=	$((H_1 - H_4)/3)$	x	$(A_1 + A_4)$	+	$\sqrt{A_1 A_4}$
V=	269.3333	x	0.0066	+	0.0813
V=	269.3333	x	0.0879		
V=	23.6806	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Bank at Spillway:

$$V = (((H_3 - H_4)/3)(A_3 + A_4 + \sqrt{A_3 A_4}))$$

	Feet		Acres		Acres
V=	$((H_3 - H_4)/3)$	x	$(A_3 + A_4)$	+	$\sqrt{A_3 A_4}$
V=	272.3333	x	0.3384	+	0.5817
V=	272.3333	x	0.9201		
V=	250.5716	AcFt			

MNFV0054313
WILLIAM SAMMER AND CAROL SAMMER
N77W15330 CROSSWAY DR

MNFV0054230
JOHN PFOTENHAUER AND JOANNE PFOTENHAUER
N77W15270 CROSSWAY DR

ST005339
814.81

ST003129
821.58

ST003128
821.21 CBS

CROSSWAY DR

ST005344 CBS
815.66 815.54

815.65

WTV
815.54

ST005345

ST00534

ST008014
816.6

MST

817.19

816.16

5346 3100 81

Year	1950 Projection (%)	1980 Projection (%)
1950	7.0	7.0
1960	7.5	8.0
1970	8.0	8.5
1980	8.5	9.0
1990	9.0	9.5
2000	9.5	10.0
2010	10.0	10.5
2020	10.5	11.0
2030	11.0	11.5
2040	11.5	12.0
2050	12.0	12.5

ST005342
815.82

11

1

1

10

1

10

INTER

Co

MEADOW LARK IN

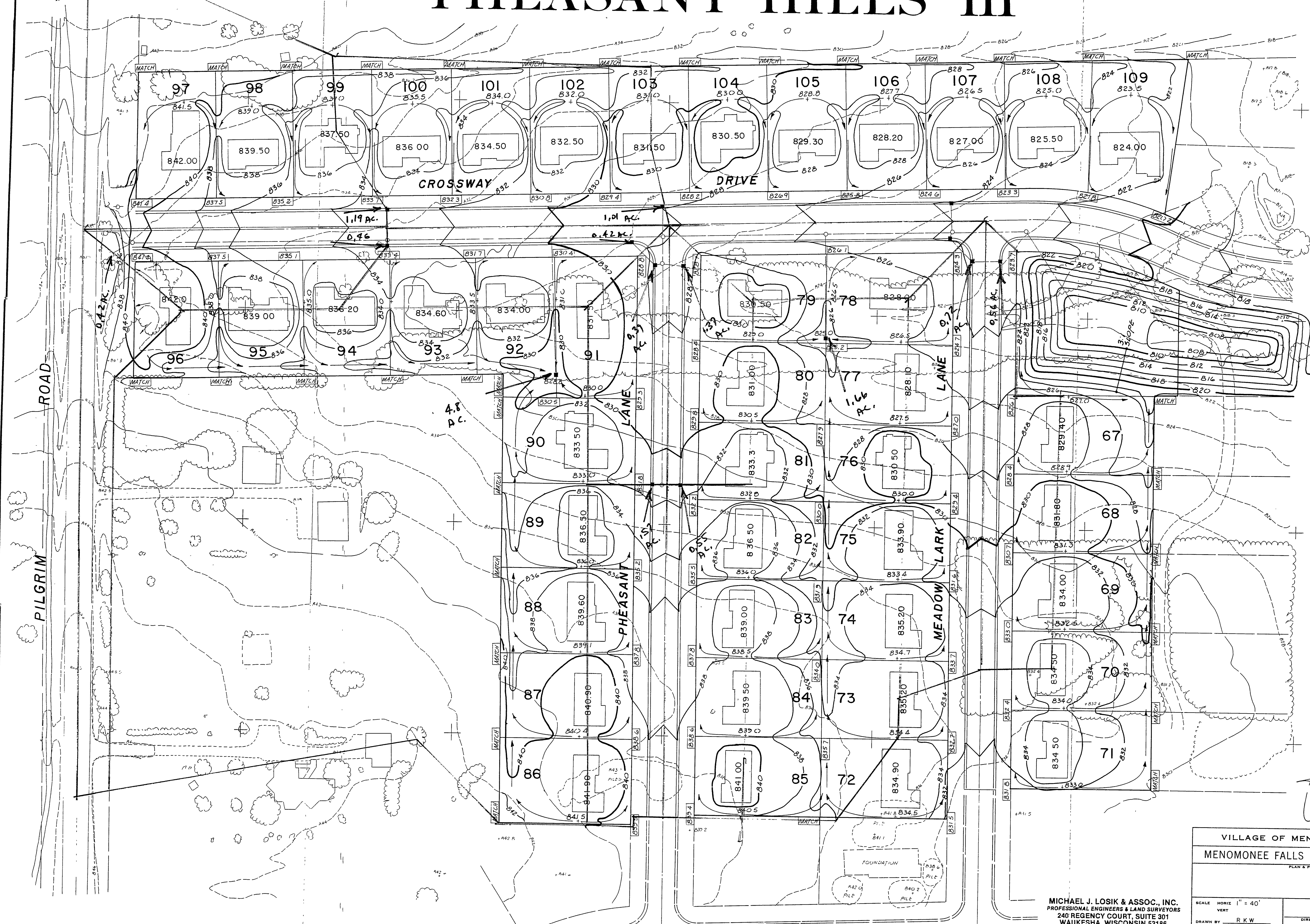
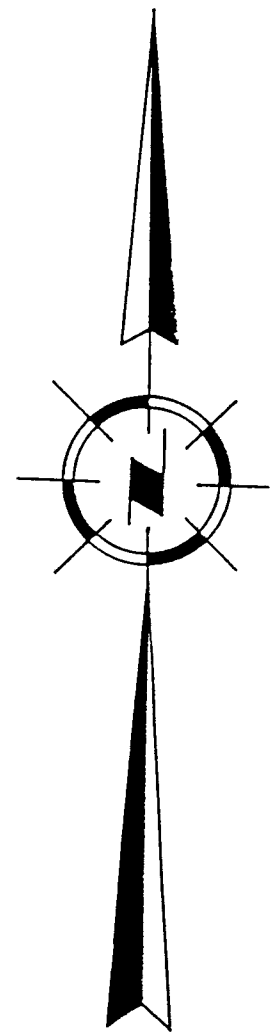
COUNTRYSIDE DR

VILLAGE OF
Menomonee Falls

MNFV0054272
 LYLE FRISENHAHN AND BECKIE FRISENHAHN
 W153N7740 MEADOW LARK LN

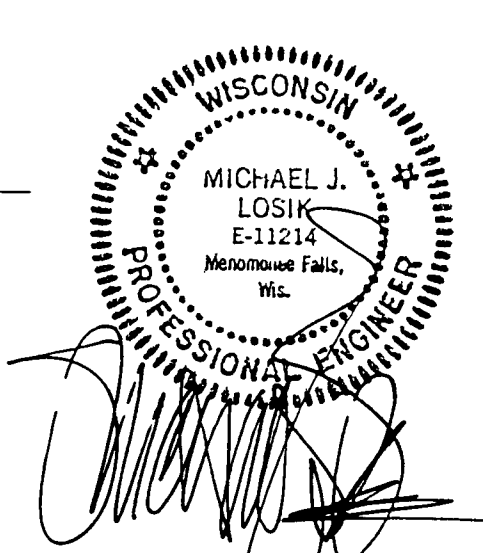
MNFV0054244
RONALD KIEPERT AND KATHLEEN KIEPERT
W152N7739 COUNTRYSIDE DR

PHEASANT HILLS III



SWP14N004

7300 Yards



VILLAGE OF MENOMONEE FALLS	
MENOMONEE FALLS ENGINEERING DEPT.	
PLAN & PROFILE	
SCALE: HORIZ 1" = 40'	VERT
DRAWN BY: R.K.W.	CHECKED BY: M.J.L.
SHEET NO: 10	TOTAL SHEETS: 10
APPROVED	DATE
DIRECTOR OF PUBLIC WORKS	VILLAGE ENGINEER
FILE NUMBER	

MICHAEL J. LOSIK & ASSOC., INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS
240 REGENCY COURT, SUITE 301
WAUKESHA, WISCONSIN 53186
PHONE NO: (414) 784-7999

P-0143 SWP14N004