



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 SW ¼ Sec 33 Name of Business/Subdivision Cranes Crossing  
 Property Tax ID Number 0131038 Address of Property N48 W18200 Lisbon Road  
 Date 10/08/2020

Dry Pond	
Wet Pond	X
Other	

Location of Pond SW corner of Green Crane Drive & Cranes Crossing Blvd.  
 Pond ID: SWP 33s004  
Pond P2E

Year Pond Constructed 2005 Year of Last Certification 2016

Compliance Verification	Design	Actual	Compliant Yes No		Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	18"	18"	X		RCP
Upstream Invert	876.75	876.89	X		
Downstream Invert	876.45	876.17	X		
Length (feet)	193.63	167.7	X		
Slope (%)	0.284	0.429	X		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter (inches)					Not Applicable (NA)
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b> (If Applicable)					
Opening Diameter (inches)	48"	48"	X		Precast Reinforced concrete
Elevation	878.70	879.06	X		
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter (inches)					NA
Elevation					

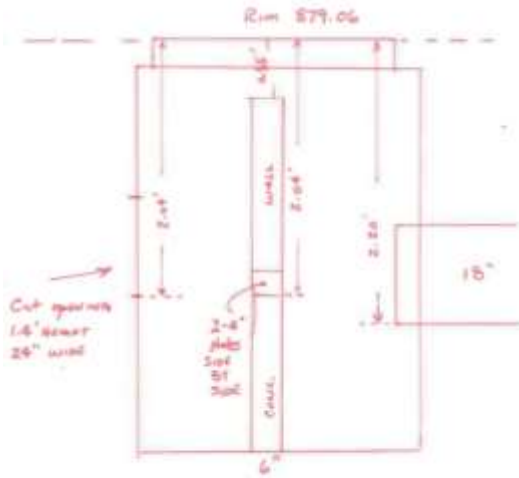
Compliance Verification	Design	Actual	Compliant Yes No		Comments	
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)	24"x15"	24"x17"	X		Debris screen over rectangular opening	
Elevation	877.00	877.02	X			
<b>Other (Description)</b>						
Opening Type and Size (inches)	2-4" dia.	2-4" dia.	X		Two orifices	
Elevation	877.00	877.02	X			
<b>Emergency Spillway</b>						
Elevation	884.29	883.4±		X		
Length of spillway (feet)	10.0	15±		X		
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Mowed lawn. Remove large trees near northwest inlet and woody vegetation near northeast corner of pond.			
Animal burrows or slope erosion		X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	30" RCP		East side		From Pond P2E, good condition	
Outfall 2	12" RCP		North side		Good condition	
Outfall 3	24" RCP		Northwest corner		Good condition	
Outfall 4	21" CMP		Northeast corner		Good condition	
<b>Storage Properties</b>	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	877.00	877.02	X			Total station & GPS            Low area at east side, over inlet and outlet pipes
Design High Water Elevation	884.29	883.4	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.4316	0.499	X			
Area at Design High Water Elevation (Ac)	1.0560	0.921	X			
Active Storage Available (Ac-Ft)*	3.9856	3.51	X			
Lowest Elevation at Top of Embankment (If Applicable)	885.2	883.3		X		
Average Elevation at Top of Embankment (If Applicable)	885.22	884.5		X		
Maximum Bottom Elevation	870.0	870.23	X			
Average Pond Bottom Elevation	870.7	872.0	X			
Pond Bottom Area (Ac)	0.0361	0.053	X			
Maximum Pond Depth	7.00	6.7	X			
Average Pond Depth	6.3	5.0	X			
Average Permanent Pool Depth (Wet Ponds)	6.3	5.0	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

Sketch Outlet or Attach to Document

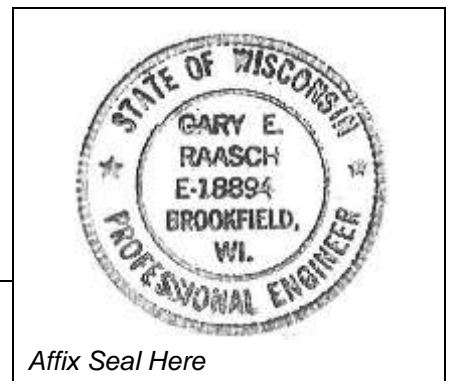


Attach As-built Survey to the Document for the first report submission

Inspection Firm: R.A. Smith, Inc.  
 Phone Number: 262-781-1000  
 Address: 16745 W. Bluemound Road  
Brookfield, WI 53005

Inspector Name : Riley Stone  
 Inspection Date: September 22, 2020

Certifying Professional  
 Name: Gary E. Raasch  
 Phone Number: 262-317-3369



Date:  
 October 8, 2020

Signature: *Gary E Raasch*

Affix Seal Here

# TOPOGRAPHIC MAP

## CRANES CROSSING

SITUATED AT GREEN CRANE DRIVE, IN THE VILLAGE OF MENOMONEE FALLS, WAUKESHA COUNTY, WISCONSIN.  
 SEPTEMBER 28, 2020  
 DRAWING NO: 166915-KAC

STARTING BENCHMARK: RBM ON HYDRANT SW CORNER OF SEC 33. ELEV. 893.37

### LEGEND

- BOLLARD
- ⊕ SOIL BORING/MONITORING WELL
- ⚑ FLAGPOLE
- ✉ MAILBOX
- SIGN
- AIR CONDITIONER
- CONTROL BOX
- ⊙ TRAFFIC SIGNAL
- CABLE PEDESTAL
- ⚡ POWER POLE
- ⌵ GUY POLE
- ⌵ GUY WIRE
- ⌵ LIGHT POLE
- ⌵ SPOT/YARD/PEDESTAL LIGHT
- ♿ HANDICAPPED PARKING
- ⊙ ELECTRIC MANHOLE
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC METER
- ⊙ ELECTRIC TRANSFORMER
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ UTILITY VAULT
- ⌵ GAS VALVE
- ⊙ GAS METER
- ⊙ GAS WARNING SIGN
- ⊙ STORM MANHOLE
- ⊙ ROUND INLET
- ⊙ SQUARE INLET
- ⌵ STORM SEWER END SECTION
- ⊙ SANITARY MANHOLE
- ⊙ SANITARY CLEANOUT OR SEPTIC VENT
- ⊙ SANITARY INTERCEPTOR MANHOLE
- ⊙ MISCELLANEOUS MANHOLE
- ⌵ IRRIGATION CONTROL BOX
- ⊙ WATER VALVE
- ⊙ HYDRANT
- ⊙ WATER SERVICE CURB STOP
- ⊙ WATER MANHOLE
- ⌵ WELL
- ⌵ WATER SURFACE
- ⌵ WETLANDS FLAG
- ⌵ MARSH
- ⌵ CONIFEROUS TREE
- ⊙ DECIDUOUS TREE
- ⊙ SHRUB
- — — — — EDGE OF TREES
- — — — — S — SANITARY SEWER
- — — — — STO — STORM SEWER
- — — — — W — WATERMAIN
- — — — — G — MARKED GAS MAIN
- — — — — E — MARKED ELECTRIC
- — — — — OHW — OVERHEAD WIRES
- — — — — B — BUREAU ELEC. SERV.
- — — — — T — MARKED TELEPHONE
- — — — — TV — MARKED CABLE TV LINE
- — — — — FO — MARKED FIBER OPTIC
- — — — — INDICATES EXISTING
- 780 — — — — — CONTOUR ELEVATION
- x 780.55 — — — — — INDICATES EXISTING SPOT ELEVATION

