# Storm Water Management Practice Maintenance Agreement

Prairie Philip, as "Owner" of the property described below, in accordance with Chapter 32 City of Waukesha Storm Water Management and Erosion Control, agrees to install and maintain storm water management practice(s) on the subject property in accordance with approved plans and Storm Water Management Plan conditions. The owner further agrees to the terms stated in this document to ensure that the storm water management practice(s) continues serving the intended functions in perpetuity. This Agreement includes the following exhibits:

**Exhibit A:** <u>Legal Description</u> of the real estate for which this Agreement applies ("Property").

Exhibit B: <u>Location Map(s)</u> – shows an accurate location of each storm water management practice affected by this Agreement.

**Exhibit C:** Maintenance Plan – prescribes those activities that must be carried out to maintain compliance with this Agreement.

Note: After construction verification has been accepted by the City of Waukesha, for all planned storm water management practices, an <u>addendum(s)</u> to this agreement shall be recorded by the Owner showing design and construction details. The addendum(s) may contain several additional exhibits, including certification by City of Waukesha of Storm Water and Erosion Control Permit termination, as described below.

Name and Return Address

City of Waukesha 201 Delafield Street Waukesha, WI 53188

Parcel Identification Number – (PIN) WAKC1002998

Through this Agreement, the Owner hereby subjects the Property to the following covenants, conditions and restrictions:

- 1. The Owner shall be responsible for the routine and extraordinary maintenance and repair of the storm water management practice(s) identified in Exhibit B until Storm Water and Erosion Control Permit termination by the City of Waukesha in accordance with Chapter 32 of the City Code of Ordinances.
- 2. After Storm Water and Erosion Control Permit termination under 1., the current Owner(s) shall be solely responsible for maintenance and repair of the storm water management practices in accordance with the maintenance plan contained in Exhibit C.
- 3. The Owner(s) shall, at their own cost, complete inspections of the storm water management practices at the time intervals listed in Exhibit C, and conduct the inspections by a qualified professional, file the reports with the City of Waukesha after each inspection and complete any maintenance or repair work recommended in the report. The Owner(s) shall be liable for the failure to undertake any maintenance or repairs. After the work is completed by the Contractor, the qualified professional shall verify that the work was properly completed and submit the follow-up report to the City within 30 days.
- 4. In addition, and independent of the requirements under paragraph 3 above, the City of Waukesha, or its designee, is authorized to access the property as necessary to conduct inspections of the storm water management practices to ascertain compliance with the intent of this Agreement and the activities prescribed in Exhibit C. The City of Waukesha may require work to be done which differs from the report described in paragraph 3 above, if the City of Waukesha reasonably concludes that such work is necessary and consistent with the intent of this agreement. Upon notification by the City of Waukesha of required maintenance or repairs, the Owner(s) shall complete the specified maintenance or repairs within a reasonable time frame determined by the City of Waukesha.
- 5. If the Owner(s) do not complete an inspection under 3. above or required maintenance or repairs under 4. above within the specified time period, the City of Waukesha is authorized, but not required, to perform the specified inspections, maintenance or repairs. In the case of an emergency situation, as determined by the City of Waukesha, no notice shall be required prior to the City of Waukesha performing emergency maintenance or repairs. The City of Waukesha may levy the costs and expenses of such inspections, maintenance or repair

related actions as a special charge against the Property and collected as such in accordance with the procedures under s. 66.0627 Wis. Stats. or subch. VII of ch. 66 Wis. Stats.

6. This Agreement shall run with the Property and be binding upon all heirs, successors and assigns. After the Owner records the addendum noted above, the City of Waukesha shall have the sole authority to modify this agreement upon a 30-day notice to the current Owner(s).

Dated this day of , 2021.

Owner:

Eugene Sheedy

## Acknowledgements

State of Wisconsin: County of Waukesha

Personally came before me this that day of October, 2021, the above named Eugene Sheedy to me known to be the person who executed the foregoing instrument and acknowledged the same.

Notary Public, Waukesha County, WI

My commission expires: 01-13-2024

This document was drafted by:

Payne + Dolan Jaimi Lapp, PE W6380 Design Drive Greenville, WI 54942 Vicky M. Burke NOTARY PUBLIC STATE OF WISCONSIN

Fin Confication Stamp

# City of Waukesha Common Council Approval

Dated thisday of, 2021.	
Shawn N. Reilly, Mayor	
Gina Kozlik, City Clerk	
Ack	knowledgements
State of Wisconsin: County of Waukesha	
Personally came before me thisday of known to be the person who executed the foregoi	, 2021, the above named <u>Eugene Sheedy</u> to me ng instrument and acknowledged the same.
	Y DATE WAS A SECOND WILL
	Notary Public, Waukesha County, WI My commission expires:

## Exhibit A - Legal Description

The following description and reduced copy map identifies the land parcel(s) affected by this Agreement. For a larger scale view of the referenced document, contact the Waukesha County Register of Deeds office.

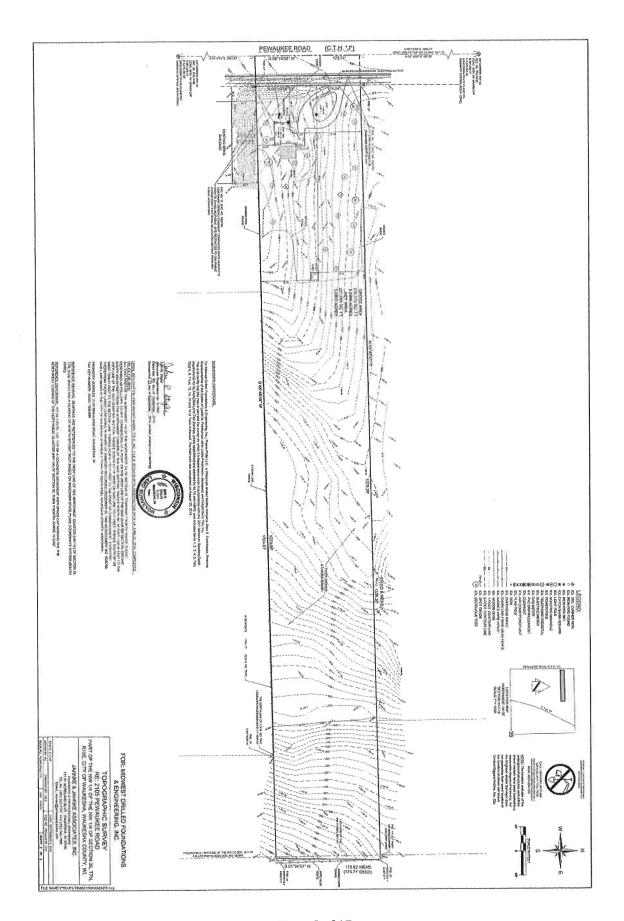
Project Identifier: 2105 Pewaukee Road

Acres: 5.2886

Date of Recording: September 23, 2014

Map Produced By: Jahnke & Jahnke Associates, Inc.

Legal Description: ALL THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 7 NORTH, RANGE 19 EAST, DESCRIBED AS FOLLOWS, TO-WIT: COMMENCING AT A POINT ON THE WEST LINE OF THE SAID QUARTER SECTION, DISTANT SOUTH 400.00 FEET FROM THE NORTHWEST CORNER OF THE SAID SECTION; THENCE NORTH 88° 30' EAST 1328.30 FEET TO THE 1/8TH LINE OF THE SAID QUARTER SECTION; THENCE SOUTH 01° 15' WEST ON SAID LINE 173.71 FEET; THENCE SOUTH 88° 30' WEST 1324.51 FEET TO THE SECTION LINE; THENCE NORTH 173.71 FEET TO THE POINT OF COMMENCEMENT. EXCEPTING THEREFROM THOSE LANDS CONTAINED IN AWARD OF DAMAGES RECORDED DECEMBER 2, 1990 AS DOCUMENT NO. 1626799. SAID LAND BEING IN THE CITY OF WAUKESHA (FORMERLY TOWN OF PEWAUKEE), WAUKESHA COUNTY, WISCONSIN.



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## Exhibit B - Location Map Storm Water Management Practices Covered by this Agreement

The storm water management practices covered by this Agreement are depicted in the reduced copy of a portion of the construction plans, as shown below. The practices include one wet detention basin, one forebay, one grass swale (conveying storm water to the forebay) and all associated pipes, earthen berms, rock chutes and other components of these practices.

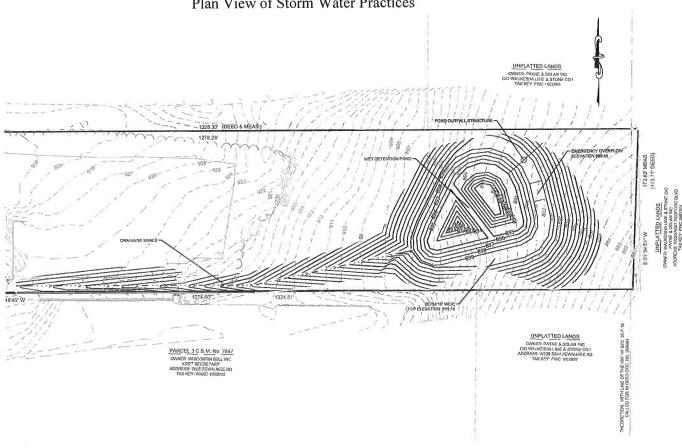
Project Identifier: Storm water Practices:

Prairie Philip Outdoor Storage Yard Wet Detention Basin, Grass swale

Location of Practices:

East limits of property

Figure 1 Plan View of Storm Water Practices



## Exhibit C Storm Water Practice Maintenance Plan

This exhibit explains the basic function of each of the storm water practices listed in Exhibit B and prescribes the minimum maintenance requirements to remain compliant with this Agreement. The maintenance activities listed below are aimed to ensure these practices continue serving their intended functions in perpetuity. The list of activities is not all inclusive, but rather indicates the minimum type of maintenance that can be expected for this particular site. Any failure of a storm water practice that is caused by a lack of maintenance will subject the Owner(s) to enforcement of the provisions listed on page 1 of this Agreement by the City of Waukesha.

#### System Description:

The wet detention basin is designed to trap 80% of sediment in runoff and maintain pre-development downstream peak flows. The basin has one forebay located at the low end of a grass swale. In addition to runoff conveyance, the grass swale also allows filtering of pollutants, especially from smaller storms. The forebay is 4 feet deep. It is connected to the main pool via a rock overflow weir. The forebay will trap coarse sediments in runoff, thus reducing maintenance of the main basin. The main pool will trap the finer suspended sediment. To do this, the pond size, water level and outlet structures must be maintained as specified in this Agreement (see Figures 1, 2 and 3). To prevent congregation of nuisance waterfowl at this location, wires will be strung over the permanent pool.

The basin receives runoff from a 3.983 acre drainage. During high rainfall or snow melt events, the water level will temporarily rise and slowly drain down to the elevation of the control structure. The water level is controlled by a 24-inch concrete pipe extending through an outlet structure within the berm in the northeast corner of the basin (see Figures 1 and 3). Inside the structure there is metal plate with a 7-inch drilled hole (orifice). This orifice controls the water level and causes the pond to temporarily rise during runoff events. High flows may flow over the matlined emergency spillway.

"As-built" construction drawings of the basin, showing actual dimensions, elevations, outlet structure, etc. will be recorded as an addendum(s) to this agreement within 60 days after City of Waukesha accepts verification of construction from the project engineer.

#### Wet Detention Basin Minimum Maintenance Requirements:

To ensure the proper long-term function of the storm water management practices described above, the following activities must be completed:

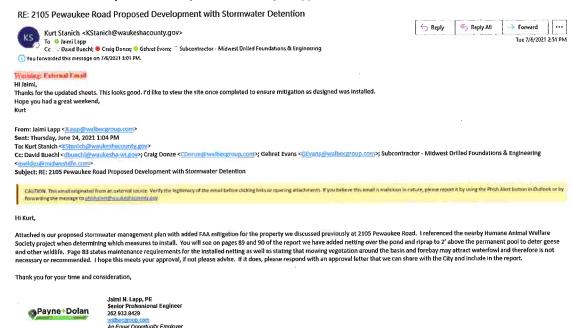
- 1. All outlet pipes must be checked monthly to ensure there is no blockage from floating debris or ice. Any blockage must be removed immediately.
- Grass swale shall be preserved to allow free flowing of surface runoff in accordance with approved grading plans. No buildings or other structures are allowed in these areas. No grading or filling is allowed that may interrupt flows in any way.
- 3. Grass swale, inlets and outlets must be checked after heavy rains (minimum of annually) for signs of erosion. Any eroding areas must be repaired immediately to prevent premature sediment build-up in the downstream forebay or basin. Erosion matting is recommended for repairing grassed areas.
- 4. NO trees are to be planted or allowed to grow on the earthen berms. Tree root systems can reduce soil compaction and cause berm failure. The berms must be inspected annually and any woody vegetation removed.
- 5. Invasive plant and animal species shall be managed in compliance with Wisconsin Administrative Code Chapter NR 40. This may require eradication of invasive species in some cases.
- 6. If the permanent pool falls below the safety shelf, a review shall be performed to determine whether the cause is liner leakage or an insufficient water budget. If the cause is leakage, the liner shall be repaired. Leakage due to muskrat burrows may require removal of the animals. If the permanent pool cannot be sustained at the design elevation, benching of the safety shelf may be necessary.
- 7. If floating algae or weed growth becomes a nuisance (decay odors, etc.), it must be removed from the basin or the forebay and deposited where it cannot drain back into the basin. Removal of the vegetation from the water reduces regrowth the following season (by harvesting the nutrients). Wetland vegetation must be maintained along the waters edge for safety and pollutant removal purposes.

- 8. When sediment in the forebay or the basin has accumulated to an elevation of three feet below the outlet elevation, it must be removed (see Exhibit D). All removed sediment must be placed in an appropriate upland disposal site and stabilized (grass cover) to prevent sediment from washing back into the basin. The forebay will likely need sediment removal first. Failure to remove sediment from the forebay will cause resuspension of previously trapped sediments and increase downstream deposition.
- 9. No grading or filling of the basin or berm other than for sediment removal is allowed, unless otherwise approved by the City of Waukesha.
- 10. Periodic mowing of the grass swales will encourage vigorous grass cover and allow better inspections for erosion. Waiting until after August 1 will avoid disturbing nesting wildlife. Mowing around the basin or the forebay may attract nuisance populations of geese to the property and is not necessary or recommended.
- 11. Any other repair or maintenance needed to ensure the continued function of the storm water practices or as ordered by the City of Waukesha under the provisions listed on page 1 of this Agreement.
- 12. The titleholder(s) or their designee must document all inspections as specified above. Documentation shall include as a minimum: (a) Inspectors Name, Address and Telephone Number, (b) Date of Inspections, (c) Condition Report of the Storm Water Management Practice, (d) Corrective Actions to be Taken and Time Frame for Completion, (e) Follow-up Documentation after Completion of the Maintenance Activities. All documentation is to be delivered to the attention of the City Engineer at the City of Waukesha Engineering Department on January 10<sup>th</sup> and July 10<sup>th</sup> each year.

#### Waterfowl Deterrent Netting Minimum Maintenance Requirements:

In response to FAA efforts to mitigate the hazards to human flight posed by wildlife, construction plans include placement of netting over the wet-bottom detention pond to make the facility less attractive to waterfowl. To maintain its function, the following activities must be completed:

- 1. Inspect net monthly for first year, reduce inspection frequency to quarterly thereafter. Replace or retension strands as needed. Remove and discard broken strands in appropriate waste containers.
- 2. Inspect rebar posts monthly for first year; reduce inspection frequency to quarterly thereafter. Ensure that posts remain upright and firmly embedded in the soil. Reinstall or replace as needed in order to maintain necessary tension on netting.
- 3. Temporarily remove strands as needed to perform other required maintenance activities (e.g. mowing, burning, outfall cleaning), and reinstall immediately upon completion of maintenance.
- 4. Waukesha County Airport staff will monitor maintenance and effectiveness of netting; comply with their maintenance requests in a timely manner; see airport approval below:



# Addendum 1 Storm Water Management Practice Maintenance Agreement

The purpose of this addendum is to record verified "as-built" construction details, supporting design data and permit termination documentation for the storm water management practice(s) located at 2105 Pewaukee Road, described as being all that part of the northwest 1/4 of the northwest 1/4 of Section 35, Township 7 North, Range 19 East, City of Waukesha, Waukesha County, Wisconsin. This document shall serve as an addendum to document , herein referred to as the "Maintenance Agreement". This addendum includes all of the following exhibits:

Exhibit D: Design Summary – contains a summary of key engineering calculations and other data used to design the wet detention basin.

Exhibit E: As-built Survey – shows detailed "as-built" cross-section and plan view of the wet detention basin.

Exhibit F: Engineering/Construction Verification – provides verification from the project engineer that the design and construction of the wet detention basin complies with all applicable technical standards and Waukesha County ordinance requirements.

Exhibit G: Storm Water Management & Erosion Control Permit Termination – provides certification by the City of Waukesha that the Storm Water and Erosion Control Permit for the above noted site has been terminated.

Dated this & day of 10, 2021.

Eugene Sheedy

Acknowledgements

State of Wisconsin County of Waukesha

Personally came before me this tay of October, 2021, the above named Eugene Sheedy to me known to be the person who executed the foregoing instrument and acknowledged the same.

[Name]

Notary Public, Waukesha County, WI

My commission expires: 0 - 13-5

This document was drafted by:

Payne + Dolan Jaimi Lapp, PE W6380 Design Drive Greenville, WI 54942 Name and Return Address

City of Waukesha 201 Delafield Street Waukesha, WI 53188

WAKC1002998

Parcel Identification Number(s) - (PIN)

Vicky M. Burke NOTARY PUBLIC STATE OF WISCONSIN

For Certification Summe

# Exhibit D Design Summaries for Wet Detention Basin

Project Identifier:	Prairie Philip Outdoor	Storage	Yard Project	Size:	5.089 acres	
	Discharge Points: _		Watershed		discharge):	Fox River
Watershed Area (i	ncluding off-site rund	off trave	ling through	project are	a): 6.030 acı	res

<u>Watershed Data Summary</u>. The following table summarizes the watershed data used to determine peak flows and runoff volumes required to design the wet detention basin.

	Subwa	tershed			Subwatershed		
Summary Data	No	rth			Offsite		
Elements	Pre- develop 1S	Post- develop 3S	Pre- develop 2S	Post- develop 4S	2aS	4aS	4bS
Watershed Areas (in acres)	1.788	1.615	3.301	3.474	0.941	0.509	0.432
Average Watershed Slopes (%)	2-8%	2-8%	3-9%	3-9%	3-6%	3-6%	3-6%
Land Uses (% of each) (see attached map)	3.4% drives 0.8% walks 1.8% roof	13.3% drives 0.9% walks 2.3% roof		35% drives/parking			
	94% grass	83.5% grass	100% grass	65% grass	100% grass	100% grass	100% grass
Runoff Curve Numbers	79	81	78	85	78	78	78
Conveyance Systems Types	Grass waterway	Grass waterway	Grass waterway	Grass swale	Grass waterway	Grass waterway	Grass Waterway
Summary of Average Conveyance System Data	overland flow Avg. 8% grade	overland flow Avg. 8% grade	overland flow Avg. 8% grade	4-5' deep swale Avg. 5% grade	overland flow Avg. 5.5% grade	overland flow Avg. 5.5% grade	overland flow Avg. 12% grade
Time of Concentration (Tc)	9.5 min.	9.5 min.	13.8 min.	6 min.	29.4 min.	29.4 min.	20.3 min.
25% of 2-yr 24-hr post-dev runoff volume	N/A	0.04 ac. ft.	N/A	0.10 ac. ft.	N/A	N/A	N/A
1-year/24 hour Runoff Volume	N/A	0.12 ac. ft.	N/A	.32 ac. ft.	N/A	N/A	N/A
2-yr./24 hour Peak Flow	2.74 cfs	2.78 cfs	3.97 cfs	8.67 cfs	0.75 cfs	0.41 cfs	0.42 cfs
10-yr./24 hour Peak Flow	5.16 cfs	5.05 cfs	7.70 cfs	14.6 cfs	1.47 cfs	0.79 cfs	0.83 cfs
100-yr./24 hour Peak Flow	10.83 cfs	10.24 cfs	16.56 cfs	27.59 cfs	3.18 cfs	1.72 cfs	1.80 cfs

# Exhibit D (continued)

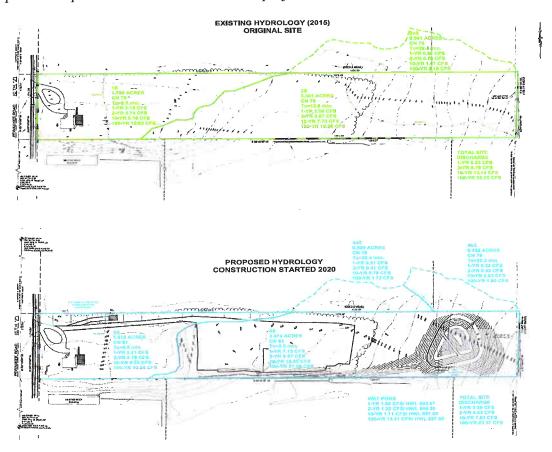
<u>Practice Design Summary</u>. The following table summarizes the data used to design wet detention basin.

Design Element	<b>Design Data</b>	
Site assessment data: (see attached maps)		
Contributing drainage area to basin	6.03 acres	
Distance to nearest private well (including off-site wells)	> 100 feet	
Distance to municipal well (including off-site wells)	> 1200 feet	
Wellhead protection area involved?	No	
Ground slope at site of proposed basin	average 8%	
Any buried or overhead utilities in the area?	No	
Proposed outfall conveyance system/discharge (w/ distances)	Overland flow 105' offsite to neighboring quarry	
Any downstream roads or other structures? (describe)	No	
Floodplain, shoreland or wetlands?	No	
Soil investigation data (see attached map & soil logs):		
Number of soil investigations completed	2	
Do elevations of test holes extend 3 ft. below proposed bottom?	yes	
Average soil texture at pond bottom elevation (USDA)	Sandy Silt with Gravel	
Distance from pond bottom to bedrock	> 5 feet	
Distance from pond bottom to seasonal water table	No water observed in test holes	
General basin design data (see attached detailed drawings):		
Permanent pool surface area	0.14 acres	
Design permanent pool water surface elevation	elev. 895.0	
Top of berm elevation (after settling) and width	elev. 899.55 / 10 feet wide	
Length/width (dimensions/ratio)	115 ft. (L) x 70 ft. (W) = $2:1$	
Safety shelf design (length, grade, max. depth)	10 ft. @ 10% slope/1' deepest	
Ave. water depth (minus safety shelf/sediment)	5 ft. (in center)	
Sediment forebay size & depth	.05 acres (25% pool size)/5 feet	
Sediment storage depth & design maintenance	2 ft. depth for forebay & pool 15 year maintenance schedule	

Design Basin Inflow, Outflow & Storage Data (see attached hydrographs and detail drawings)				
Inflow Peak/Volume	Maximum Outflow Rate	Max. Water Elevation	Storage Volume at Max. Elev. (above perm. pool)	Outflow Control Structures*
1-yr./24 hr. (volume)	1.06 cfs (34 hr. drawdown)	895.97 ft.	0.15 acre feet	#1
8.79 cfs (Post 2-yr./24 hr. peak)	1.22 cfs	896.20 ft.	0.20 acre feet	#1
14.87 cfs (Post 10-yr./24 hr. peak)	1.71 cfs	897.05 ft.	0.37 acre feet	#2
28.27 cfs (Post 100-yr./24 hr. peak)	13.21 cfs	897.80 ft.	0.54 acre feet	#2

- \* #1 = 7 inch orifice in water level control weir plate flow line elev. @ 895.0
  - #2 = 6 foot wide rectangular weir flow line elev. @ 897.1
  - #3 = 24 inch diameter smooth wall rcp pipe flow line elev. @ 895.0
  - #4 = 20 foot wide rock emergency spillway flow line elev. @ 898.55

<u>Watershed Map</u>. The watershed map shown below was used to determine the post-development data contained in this exhibit. The post-developed watershed areas are the same as the pre-development watershed areas for this project.



# **Exhibit E As-built Survey for Wet Detention Basin**

The wet detention basin depicted in Figure 1 is a reduced copy of the as-built plan.

Project Identifier:
Storm water Practices:

Prairie Philip Outdoor Storage Yard Wet Detention Basin, Grass swale

Location of Practices:

East limits of property

### Exhibit E (Continued)

Figure 2

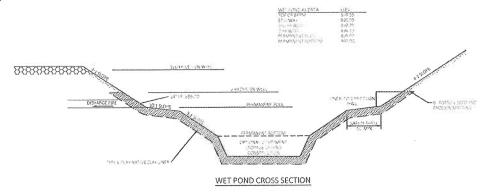
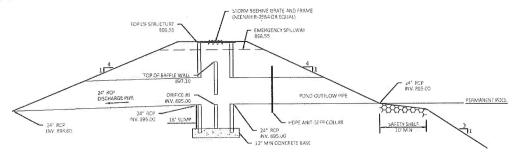
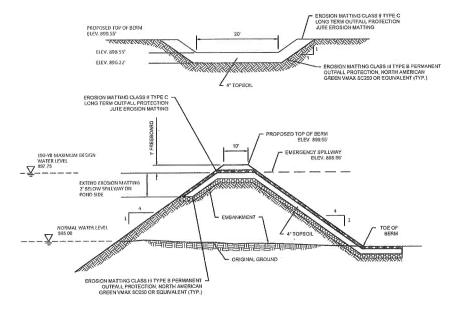


Figure 3



### WET POND PRECAST OUTLET STRUCTURE

Figure 4



PROPOSED EMERGENCY SPILLWAY WET POND

# Exhibit F

# Engineering/Construction Verification

DATE:	
TO:	City of Waukesha
FROM:	[Project Engineer's Name/Company]
RE:	Engineering/Construction Verification for the following project:  Project Name:
as verification completed; and built" construc- technical stand Control Ordina	referenced project and storm water management practices, this correspondence shall serve that: 1) all site inspections outlined in approved inspection plans have been successfully 12) the storm water management practice design data presented in Exhibit D, and the "astion documentation presented in Exhibit E comply with all applicable state and local ards, in accordance with the City of Waukesha Storm Water Management and Erosion ance.
1. Any variation variations are of the original des [Note: The City	ons from the originally approved construction plans are noted in Exhibit E. These considered to be within the tolerances of standard construction techniques and do not affect sign as presented in Exhibit D in any way.  Sy may request additional documentation to support this statement depending on the extent com the approved plans.]
<u>Or</u>	
	or construction changes from the originally approved construction plans are documented in E and have been approved by the City of Waukesha.
	a season and wetland planting verification may be included in this exhibit.]

# **Exhibit G Storm Water Management and Erosion Control Permit Termination**

Project Identifier: Prairie Philip Outdoor Storage Yard

Location: ALL THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 7 NORTH, RANGE 19 EAST, DESCRIBED AS FOLLOWS, TO-WIT: COMMENCING AT A POINT ON THE WEST LINE OF THE SAID QUARTER SECTION, DISTANT SOUTH 400.00 FEET FROM THE NORTHWEST CORNER OF THE SAID SECTION; THENCE NORTH 88° 30' EAST 1328.30 FEET TO THE 1/8TH LINE OF THE SAID QUARTER SECTION; THENCE SOUTH 01° 15' WEST ON SAID LINE 173.71 FEET; THENCE SOUTH 88° 30' WEST 1324.51 FEET TO THE SECTION LINE; THENCE NORTH 173.71 FEET TO THE POINT OF COMMENCEMENT. EXCEPTING THEREFROM THOSE LANDS CONTAINED IN AWARD OF DAMAGES RECORDED DECEMBER 2, 1990 AS DOCUMENT NO. 1626799. SAID LAND BEING IN THE CITY OF WAUKESHA (FORMERLY TOWN OF PEWAUKEE), WAUKESHA COUNTY, WISCONSIN.

Storm Water Management and Erosion Control Perint Holder's Name.
Storm Water Management & Erosion Control Permit #:
Chapter 32 – City of Waukesha Storm Water Management and Erosion Control requires that all newly constructed storm water management practices be maintained by the Storm Water and Erosion Control Permit Holder until permit termination, after which maintenance responsibilities shall be transferred to the responsible party identified on the plat and referenced in this Maintenance Agreement.
Upon execution below, this exhibit shall serve to certify that the Storm Water Permit Holder has satisfied all requirements of the Storm Water Management and Erosion Control Ordinance and that the City of Waukesha has terminated the Storm Water Management and Erosion Control Permit for the property covered by this Maintenance Agreement.
Dated thisday of
City of Waukesha representative:
(Signature)
(Typed Name and Title)

# Acknowledgements

State of Wisconsin County of Waukesha	
	, 2021, the above named Eugene Sheedy to megoing instrument and acknowledged the same.
	Notary Public, Waukesha County, WI My commission expires: