

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 on Outlot 1 of the Highland Preserve Subdivision, described as being all that part of the Southwest Quarter (SW ¼) of Section 4, Township 8N, Range 19E (Town of Lisbon) 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 _____, 201_.

Owner:

[Owners Signature – per the Maintenance Agreement]

[Owners Typed Name]

Acknowledgements

State of Wisconsin County of Waukesha

Personally came before me this ___ day of _____, 201_, the above named _____ 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: _____.

This document was drafted by:

Lake Country Engineering
Rob Davy
970 S. Silver Lake Street
Oconomowoc, WI 53066

Name and Return Address

City of Waukesha
130 Delafield Street
Waukesha, WI 53188

WAKC1004320

Parcel Identification Number(s) – (PIN)

For Certification Stamp

DESIGN DATA

Project Type: Residential No. of Lots: 10 buildingsNo. of Runoff Discharge Points: 1 Watershed (ultimate discharge): Unknown ditch flowing to the Fox RiverWatershed Area (including off-site runoff traveling through project area): 5.25 AcresPublic Land Survey Location: SE 1/4, Section 35 T 7 N, R 19 E, City of Waukesha

SUMMARY DATA ELEMENTS				
	EX OFFSITE AREA	EX ONSITE AREA	PRO. ONSITE	
Watershed Areas (in acres) <i>(see attached map)</i>	1.11	4.14	4.14	
Land Uses (% of each) <i>(see attached map)</i>	RESIDENTIAL	VACANT LAND	CONDOMINIUMS	
Runoff Curve Numbers	0.17 AC @ 55 WOODS 0.94 AC @ 61 LAWN 60	1.26 AC @ 55 WOODS 2.69 AC @ 61 GRASS 0.09 AC @ 98 ROOF 0.11 AC @ 85 GRAVEL 61	1.89 AC @ 98 IMP 1.54 AC @ 61 GRASS 0.08 AC @ 100 RET. BMP 0.63 AC @ 55 WOODS 80	
Conveyance Systems Types	OVERLAND	OVERLAND	OVERLAND	
Summary of Average Conveyance System Data				
Time of Concentration (<i>T_c</i>) <i>(see attached map & wrkshs)</i>	27.82 MIN	31.01 MIN	21.5 MIN	
2-yr 24-hr post-dev runoff volume	N/A	N/A	N/A	
1-year/24 hour Runoff Volume	NA	NA	NA	
2-yr./24 hour Peak Flow <i>(see attached hydrographs)</i>	0.091 CFS	0.371 CFS	3.17 CFS	
10-yr./24 hour Peak Flow <i>(see attached hydrographs)</i>	0.594 CFS	1.989 CFS	6.77 CFS	
100-yr./24 hour Peak Flow	1.527 CFS	4.993 CFS	11.82 CFS	

EXHIBIT D
DESIGN DATA

PROP. WET POND		
	Design Element	Design data
Site assessment data		
	Contributing Drainage area to basin(prop area 1)	5.25
	Distance to nearest private well (including off-site wells)	> 100 ft
	Distance to municipal well (including off-site wells)	NA
	wellhead protection area involved	no
	Ground slope at site of proposed basin	average 1.0%
	Any buried or overhead utilities in area	YES
	Proposed outfall conveyance system/discharge	8" PIPE W/ STRUCTURE
	Any down stream roads or other structures	YES
	Floodplain, shore land, or wetlands	YES
Soil investigation data (see report)		
	# of soil investigations in completed	NA
	Do elevations of test holes extend 3' below prop bottom of infiltration	NA
	Average soil texture at bottom elevation	NA
	Infiltration rate at bottom of infiltration basin	NA
	Infiltration rate at bottom of fore bay	NA
	Distance from pond bottom to bed rock	NA
	distance from pond bottom to seasonal water table	NA
General basin design data (see attached detail)		
	Basin bottom area	3438 SQ.FT
	Basin bottom elevation	66
	Top of berm elevation (after settling) and width	61.5 / 6'
	Basin storage below outlet	0.0 AC.FT.
	1-yr 24-hr post-development runoff volume	NA
	time to completely infiltrate stored water	NA
Design basin inflow, outflow and storage data		
	Inflow / Outflow	max water elev/storage volume
2-yr	3.26 CFS / 0.47 CFS	57.44 / 0.139 ac-ft
10 -YR	7.37 CFS / 3.09 CFS	58.54 / 0.283 AC-FT
100-yr	13.27 CFS / 3.75 CFS	59.7 / 0.512 AC-FT
#1	4" ORIFICE IE = 56.00	
#2	3'x3' BOX RIM = 58.32	
#3	8" PIPE FROM BOX IE = 56.00	
#4	25' BROAD CRESTED WEIR EL = 60.5	

EXHIBIT E - PLAN WET-POND AS-BUILT

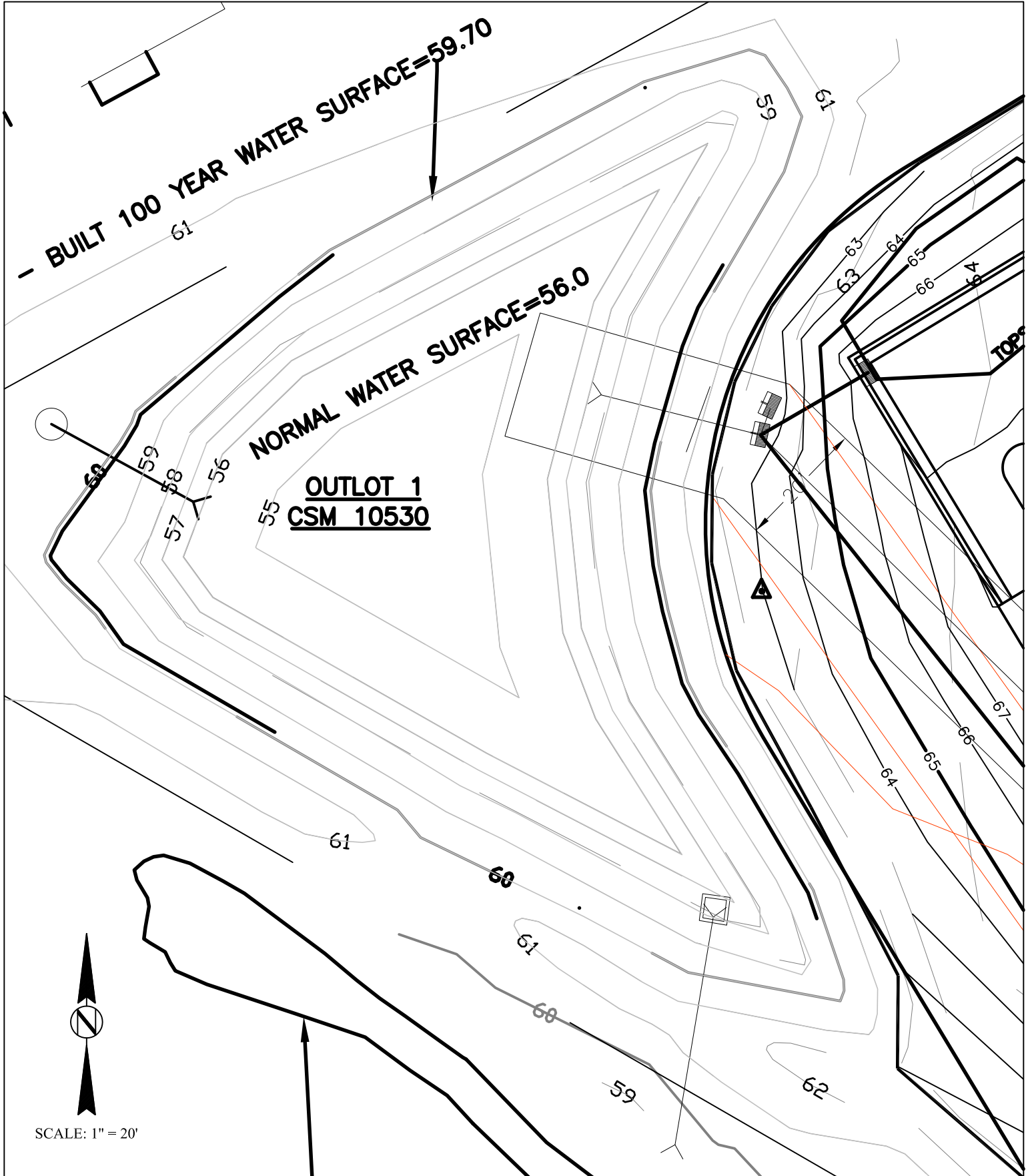


EXHIBIT E - CROSS SECTION WET-POND AS-BUILT

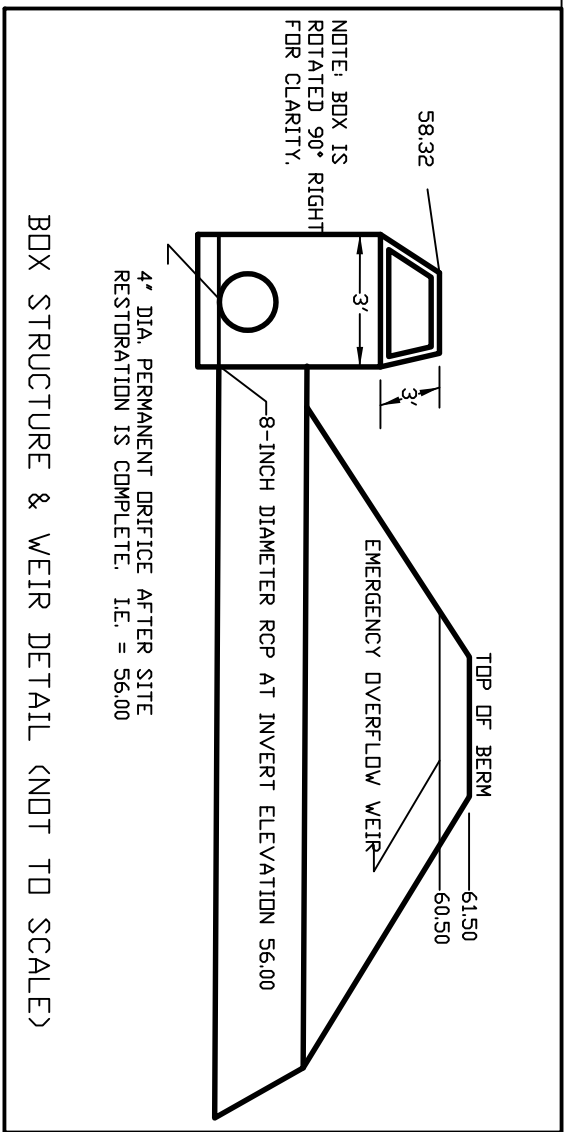
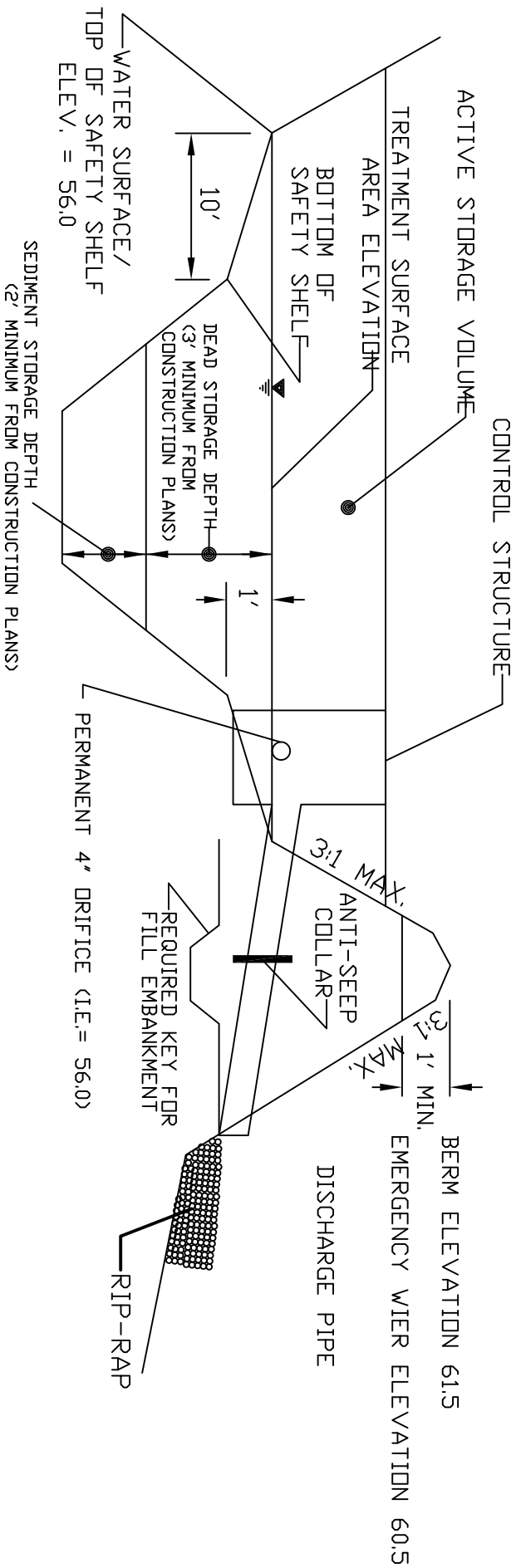


Exhibit "F"
Engineering/As-Built Verification

DATE: 03/27/2018

TO: City of Waukesha

FROM: Rob Davy, Lake Country Engineering

RE: Engineering/As-built Verification for the following project:
Project Name: The Ridge at Woodland Creek Condominiums
Section 35 T.7N., R.19 E., City of Waukesha
Storm Water Management & Erosion Control Permit # _____
Storm Water Management Practices: Sediment basin

For the above-referenced project and storm water management practices, this correspondence shall serve as verification that the storm water management practice design data presented in Exhibit D, and the "as-built" construction documentation presented in Exhibit E comply with all applicable state and local technical standards, in accordance with the City of Waukesha Storm Water Management and Erosion Control Ordinance.

1. Any variations from the originally approved construction plans are noted in Exhibit E. These variations are considered to be within the tolerances of standard construction techniques and do not affect the original design as presented in Exhibit D in any way.

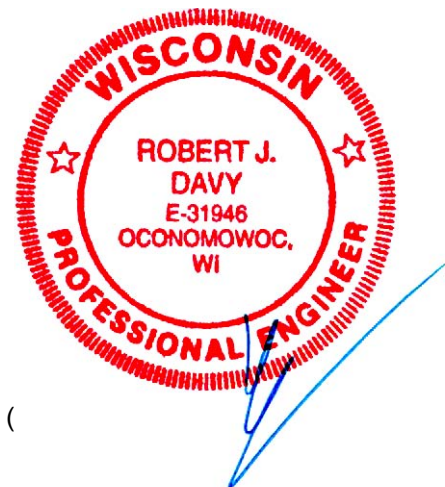


Exhibit G
Storm Water Management and Erosion Control Permit Termination

Project Identifier: The Ridge at Woodland Creek Condominiums

Location: All that part of the Southeast Quarter (SE ¼) of Section 35 T.7N., R.19 E., City of Waukesha

Storm Water Management and Erosion Control Permit 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 CSM #10529 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 this ___ day of _____, 201_.

City of Waukesha representative:

(Signature)

(Typed Name and Title)

Acknowledgements

State of Wisconsin
County of Waukesha

Personally came before me this ___ day of _____, 201_, the above named _____ 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: _____