

Needs stream name* Will need applicant to sign MDS form*

KANSAS DEPARTMENT OF AGRICULTURE

Mike Beam, Secretary of Agriculture

WATER RESOURCES RECEIVED



MAY 08 2024 5:07 KS Dept. of Agriculture

DIVISION OF WATER RESOURCES Earl D. Lewis Jr., Chief Engineer

51237

File Number This item to be completed by the Division of Water Resources.

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application (Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502:

~ . .

1.	Name of Applicant (Please Pl	Print): KKR Holdings Chetc	ppa, LLC (Dan Smith) (email	: dsmith@watco.com)
	Address: 660 E Hwy 47			
	City: Franklin		State KS Zi	p Code 66753
	Telephone Number: (620)	687-1163	(NEOSHO E	BASIN)
2.	The source of water is:	⊠ surface water in <u>overl</u>	and flow runoff from contribut (stream)	ting drainage area
	OR	□ groundwater in	(drainage ba	isin)
	when water is released from to these regulations on the	n storage for use by water date we receive your appl	s established by law or may b assurance district members. ication, you will be sent the ap un quantity equals constructed weth	If your application is subject ppropriate form to complete
3.	The maximum quantity of w	water desired is 43	acre-feet OR	gallons per calendar year,
	to be diverted at a maximum	im rate of <u>NF</u> ga	llons per minute OR	cubic feet per second.
	requested quantity of wate requested maximum rate of	ter under that priority nur of diversion and maximum of	the requested maximum rate nber can <u>NOT</u> be increased quantity of water are appropria ion of Water Resources' requ	d. Please be certain your ate and reasonable for your
4.	The water is intended to be	e appropriated for (Check us	e intended):	
	(a) 🛛 Artificial Recharge	(b) 🗌 Irrigation	(c) 🛛 Recreational	(d) 🛛 Water Power
	(e) 🗆 Industrial	(f) 🔲 Municipal	(g) 🗌 Stockwatering	(h) 🗌 Sediment Control
	(i) 🗆 Domestic	(j) 🗆 Dewatering	(k) 🔲 Hydraulic Dredging	(I) □ Fire Protection
	(m) 🗆 Thermal Exchange	(n) Contamination Re	emediation	
			DF WATER RESOURCES FORM(S) ER FOR THE INTENDED USE REF	
For Offi F.O Code			Source_G / S_County Receipt Date	CK By KJN Date 5/9/
	DWP 1 100 (Povisod 05/17/2)	010)		

DWR 1-100 (Revised 05/17/2019)

5/17/2024 **KAnderson**

WATER RESOURCES RECEIVED

MAY 0 8 2024 File No. _____

County, Kansas.

KS Dept. of Agriculture. The location of the proposed wells, pump sites or other works for diversion of water is: 5.

Township 36 South, Range 21 East, Cherokee

Note: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal guarter section of land. (A) = Water Control Structure

(A) One in the quarter of the NE guarter of the SE guarter of Section 36, more particularly described

as being near a point 2,360 feet North and 1,040 feet West of the Southeast corner of said section, in

T36S DOES NOT **EXIST KJN 5/9/24**

- (B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ , __ County, Kansas. (C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point feet North and feet West of the Southeast corner of said section, in Township _____ South, Range _____ , _____ County, Kansas.
- (D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point feet North and feet West of the Southeast corner of said County, Kansas.

section, in Township _____ South, Range _____ , _

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a guarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

(name, address and telephone number)

(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:

I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.

Executed on <u>MA72</u>, 2024

Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

The proposed project for diversion of water will consist of <u>one (1) wetland cell with a water control structure</u> (number of wells, pumps or dams, etc.) 7. and will be completed (by) following approval

(Month/Day/Year - each was or will be completed)

The first actual application of water for the proposed beneficial use was or is estimated to be following approval (Mo/Day/Year) 8.

WATER RESOURCES RECEIVED

MAY 0 8 2024

File No.

KS Dept. of Agriculture

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?

 \Box Yes \boxtimes No If "yes", a check valve shall be required.

All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources?

- If yes, show the Water Structures permit number here <u>Floodplain fill permit pending</u>
- If no, explain here why a Water Structures permit is not required _______
- 11. The application <u>must</u> be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, please show the following information:
 - (a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
 - (b) If the application is for groundwater, please show the location of any existing water wells of any kind within ½ mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within ½ mile, please advise us.
 - (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines must be shown.
 - (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
 - (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.

12. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.

WATER RESOURCES RECEIVED

MAY 0 8 2024

File No.

KS Dept. of Agriculture

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from:	□ Test holes	□ Well as	s completed	Drillers	log attached	
Well location as shown in p	paragraph	(A)	(B)	(C)	(D)	
Date Drilled	-					
Total depth of well	_					
Depth to water bearing for	mation _					
Depth to static water level	_					
Depth to bottom of pump in	ntake pipe					

- 14. The relationship of the applicant to the proposed place where the water will be used is that of <u>owner</u> (owner, tenant, agent or otherwise).
- 15. The owner(s) of the property where the water is used, if other than the applicant, is (please print):

(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

A. M_, Kansas, this 2nd day of MAy 9:00 <u>2029</u> (year) Dated at

(Applicant Signature)

By

(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Brian Severin, P.E. Eocene Environmental Group Date: 4/25/2024

WATER	RESOURCES	
RE	CEIVED	

FEE SCHEDULE

KS Dept. of Agriculture

MAY 0 8 2024

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250 More than 250	\$200.00 \$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

- Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.
- 3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.
 - Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

RECREATIONAL USE SUPPLEMENTAL SHEET

File No.

KKR Holdings Chetopa, LLC (Dan Smith)

- Constructed low 1. Please indicate type of recreational use (boating, fishing, swimming, etc.): level wetland dike to seasonally impound shallow water for wildlife use.
- 2. Please summarize how the water will be used and justify the quantity of water requested: Constructed wetland storage plus net evaporation at the auxiliary spillway elevation

of Dike 1 = 43 acre-feet. The installed water control structure will release runoff and

stored water back into the Neosho River floodplain.

3. Please complete the following table showing estimated future water requirements:

NEXT 5 YEARS	WATER TO BE DIVERTED (ACRE-FEET OR GALLONS)		
Year 1	43 acre-feet		
Year 2	43 acre-feet		
Year 3	43 acre-feet		
Year 4	43 acre-feet		
Year 5	43 acre-feet		

ESTIMATED FUTURE WATER DIVERTED/STORED

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used by providing the fractional part of the Section, Township and Range.

SE 1/4 Sec 36, T-34S; R-21E (see plan sheets)

You may attach any additional information you believe will assist in informing the Division of the need for your request.

WATER RESOURCES RECEIVED

MAY 08 2024

KS Dept. of Agriculture





WATER RESOURCES RECEIVED MAY 0 8 2024

KS Dept. of Agriculture

KKR Holdings Chetopa, LLC Boone Lake

Wetland Development (New Construction)

April 30, 2024

Prepared By: Brian W. Severin, P.E. Director of Technical Services

bseverin@eocene.com

785.207.0201



KS Dept. of Agriculture

Design Report

Project Information

- Name: KKR Holdings Chetopa, LLC Boone Lake
- Practice: Wetland Development
- Legal: SE ¼ Section 36, Township 34 South; Range 21 East
- Location: Cherokee County, Kansas

Project Description

The project is located along Short Creek and Neosho River. The wetland development includes one wetland cell with a water control structure. The dike structure is new construction. The low-level dike will provide additional water storage and create diverse topography within the degraded wetland area. The dike will increase water storage capacity and maintain hydrology at times throughout the year. The project will not hydraulically affect adjacent landowners, as the permanent pool will be confined to the landowner's property.

Design

The Dike 1 wetland cell has an approximate drainage area of 175 acres. The contributing hydrology into the wetland cell is direct rainfall, overland flow runoff, and seasonal flood events. The low-level dike is expected to overtop during flood events. The structure is designed with a minimum profile to reduce damage during these events. Average annual rainfall and seasonal flooding is expected to maintain wetland hydrology in the cell at most times throughout the year. The wetland cell will not be supplemented with pumped surface water.

Permitting and Permissions

The following permits will be required for construction and operation activities. Pertinent information for the permits has been supplied on the permit applications.

- Kansas Department of Agriculture, Division of Water Resources: DWR 1-100 Water Appropriation for Beneficial Use (Storage)
- Kansas Department of Agriculture, Division of Water Resources: DWR 2-200 Floodplain Fill

Construction Safety

Before any investigation or construction activity, the excavator is responsible for calling Kansas One-Call at 800-344-7233 (800-DIG-SAFE) or 811.

Survey

The project survey was completed by Scott Williams, ModernAg, Inc. An OPUS corrected, permanent benchmark set by Sustainable Environmental Consultants on an neighboring property was used to set project benchmarks. All survey data was collected in latitude and longitude coordinates. All survey points were adjusted to the OPUS corrected benchmark to ensure an accurate elevation for permitting purposes. LiDAR topographic data was compared to the survey data and elevation corrected for planning and design use.

Appendix

The attached Appendix includes Plan Sheets, Construction Specifications, KDA-DAR Report, and Permit Documentation.



Project:	KKR	Holdings	Chetopa,	LLC -	- Boone	Lake
----------	-----	----------	----------	-------	---------	------

Practice: Wetland Development

Location: SE 1/4 Sec 36, T-34S; R-21E

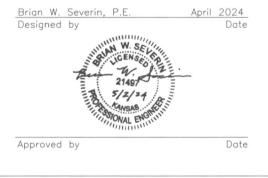
Cherokee County, Kansas

Index to Drawings

Sheet No. Description

1 Cover Sheet

- 2 Location Map and Table of Quantities
- 3 Orthographic Plan Map
- 4 Topographic Plan View and Storage Table
- 5 Dike 1 Profile and Cross Sections
- 6 Base Flood Analysis
- 7 Base Flood Analysis



Before any investigation or construction activity, the excavator is responsible for calling Kansas One-Call at 800-344-7233 (800-DIG-SAFE) or 811

KS

Dept. of Agriculture

WATER RESOURD

ES

MAY 08

2024

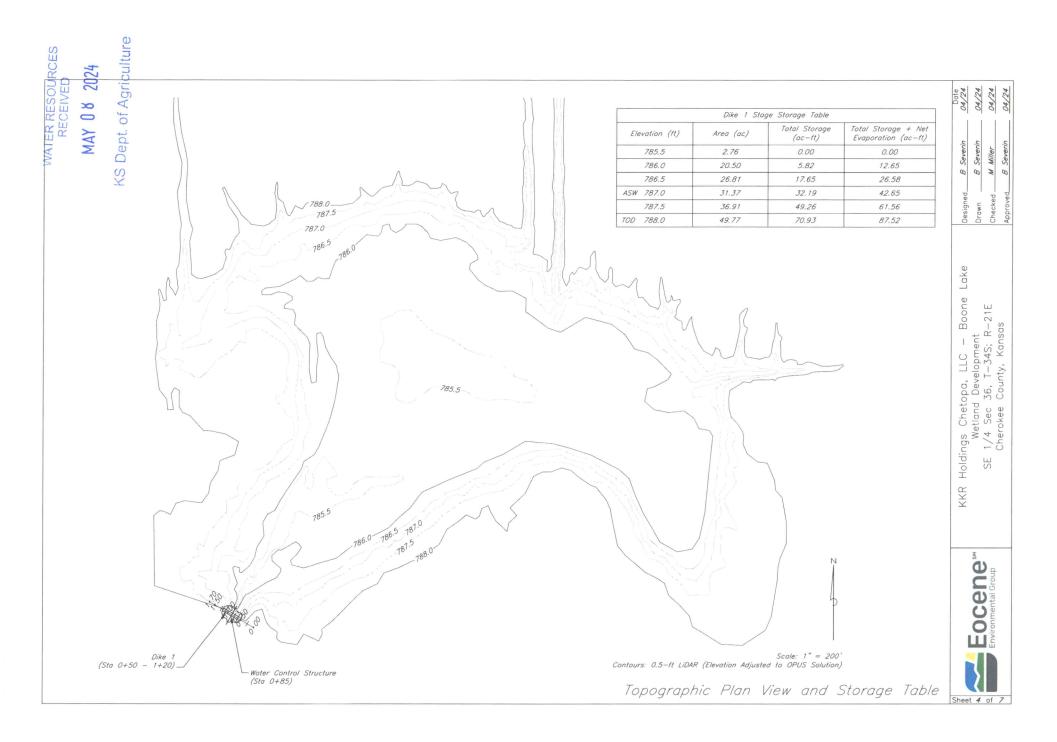


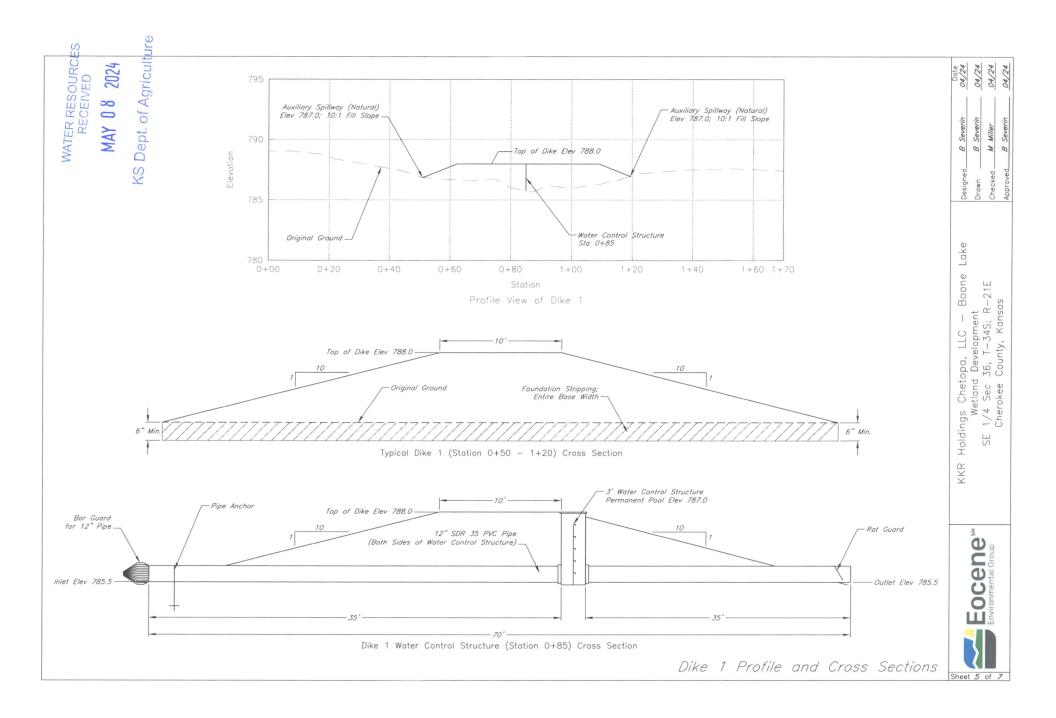
Dept. of Agriculture

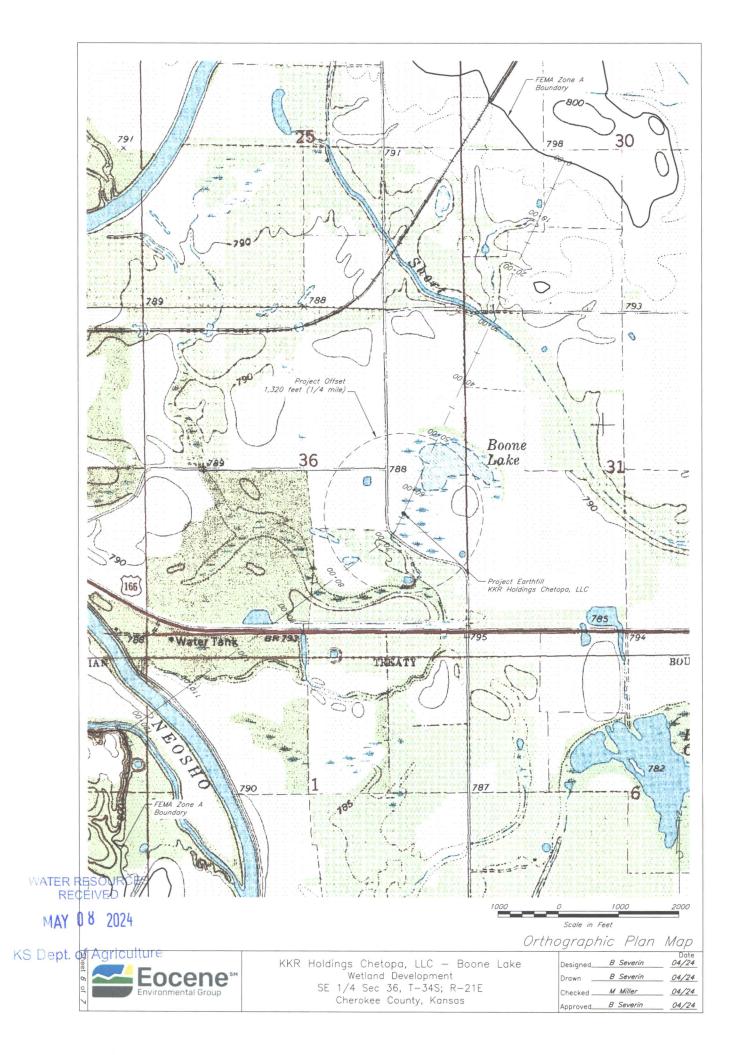
3				WATER REC	KS Dept. o	DoteSeverin04/24Severin04/24Miller04/24
and the second s		Table of Qua	entities	1		B Sev B Sev M Mill
		Item	Unit	Design Quantity	As-Built Quantity	
3	Contraction of the local division of the loc	Dike 1 (New Construction)				Designed. Drawn Checked _
3	5	Earthfill	cu yd	100		Desi Drav
2	and the second second second	Water Control Structure				
9 SW Greenlawn Rd		Inline Water Control Structure, 3' tall	each	1		
9		Pipe, 12-inch dia. SDR 35	lin ft	70		0
	D	Bar Guard, 12-inch dia.	each	1		Lake
		Rat Guard, 12-inch dia.	each	1		
8		Pipe Anchor (Assembly)	each	1		Boone -21E
SW Boone Lake Rd Project Location	0	 Project Location & Adjacent Landowners 1) KKR Holdings Chetopa, LLC 660 E Highway 47, Frankin, Kansas 66735 2) Chubb, Kristy Lynn Attn: Scott Burcham 305 Rhododendran Dr Chapel Hill, North Carolina 27517 3) Odom, Billye Lynne 1350 Glennview El Dorado, Kansas 67042 4) Jackson, Jerry W & Linda L 1451 Rex Ave, Apt 81 Joplin, Missouri 64801 5) Graybill Fam LID Partnership 1487 Childress Ferry Rd Blountville, Tennessee 37617 6) Moden, Gary W Moden, Nita J Trust 9258 Cottonwood Canyon Dr Lenexa, Kansas 66052 	Points of Divers A) Water Control		- Storage	KKR Holdings Chetopa, LLC – Boc Wetland Development SE 1/4 Sec 36, T-34S; R-21
US Hwy 166	The approximate project location is 1.5 miles east of Chetopa, Kansas.	 8) Aaron Ray Conard & Alicia Nichole Conard Rev Trust DTD 11/2/22 8042 SW 122nd Ter Chetopa, Kansas 67336 9) Arrowhead Acres, LLC PO Box 638 Euless, Texas 76039 				

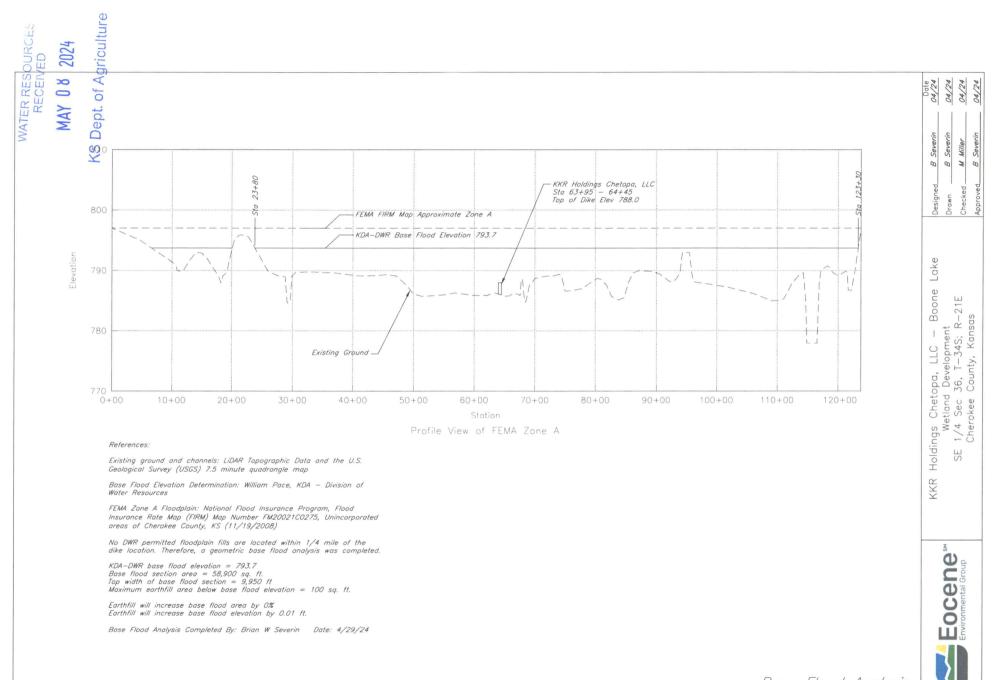
Sheet 2 of 7











Base Flood Analysis

Sheet 7 of 7

Construction Specifications

1. Scope

The work shall consist of all construction operations and furnishing all materials as required by the drawings and specifications for the complete installation of the works. All work shall be conducted in a skillful and workmanlike manner. The completed job shall present a workmanlike appearance.

2. Location

The location of each component of the wetland development shall be as specified on the drawings, described in the construction specifications, or as staked in the field.

3. Site Preparation

Construction Area – The construction area shall be cleared of all trees, logs, roots, brush, boulders, sod, and rubbish. Cleared soil material with minimal amounts of vegetation may be stockpiled and used to topsoil the dikes. Material with excessive amounts of vegetation shall be spoiled.

4. Excavation

To the extent it is suitable, excavated material shall be used as earthfill material.

Foundation Stripping – A minimum stripping of six inches of topsoil shall be excavated over the entire base width of the earthfill.

Borrow – The location and extent of the borrow shall be within the wetland cell storage area. The borrow area shall be stripped of any objectionable material before placing in the earthfill.

5. Earthfill

All earthfill materials shall be obtained from the required excavations and designated borrow areas. Earthfill materials shall be free of sod, roots, frozen soil, large stones, and other objectionable material. Earthfill material shall not be placed until required foundation preparation has been completed.

Dike earthfill shall be clay material with minimal silt. The placement shall be started at the lowest point in the foundation and brought up in horizontal layers. The depth of each lift of earthfill before compaction shall not exceed 9 inches. The dike fill shall be machine compacted by the controlled movement of hauling and spreading equipment. Every point of each lift surface shall be traversed by not less than one tread track of the equipment. Stockpiled topsoil shall be placed on the outer portions of the structure. Topsoil shall not be less than 6 inches or more than 2 feet thick.

The completed work shall conform to the lines, grades, and elevations shown on the drawings. Finished slopes shall be as specified or flatter.

WATER RESIDE RECEIVED MAY U & 2024 KS Dept. of Agriculture

6. Water Control Structure

A pre-manufactured, Agri-Drain inline water control structure shall be installed to control the water level of the wetland cells. Reference the plan sheets for water control structure size.

Smooth plastic pipe and fittings shall be extruded from polyvinyl chloride (PVC) compounds and shall conform to ASTM D-2241 or ASTM D-3034. The standard dimension ratio (SDR) of the pipe shall be less than or equal to that shown in the plans. Plastic (PVC) pipe manufactured under other ASTM or AWWA specifications may be accepted if: 1) PVC materials conform to ASTM D-1784, Class 12454-B or 12454-C; 2) joints at fittings and pipe sections are gasketed and watertight; and 3) the pipe material is approved by the inspector prior to installation.

The pipe and water control structure shall be installed coinciding with the dike fill lifts. Backfill material shall be a loose, friable, cohesive soil, free from clods, grass, weeds, straw, or other organic matter.

7. Vegetation

The dike and denuded construction areas shall be seeded to permanent grass vegetation immediately following construction. Seeding specifications shall be provided prior to construction.

8. Measurement

Unless otherwise specified, measurement shall be to the units shown in the table of quantities and/or drawings.

KDA – Division of Water Resources (DWR) Report

Direct Diversion

A direct diversion or pumping site is not planned for this wetland development. Therefore, a DWR Water Appropriation for Beneficial Use (Direct Diversion) permit is not required.

Surface Water Storage

The Potential Net Evaporation (Annual Average Evaporation minus Annual Normal Precipitation) for the project location is 4 inches. The net storage for Dike 1 was analyzed from the auxiliary spillway. A water control structure will be used in the dike to maintain freeboard and manage the water level within the wetland cell. The Total Storage + Net Evaporation for the wetland cell is greater than 15 ac-ft. Therefore, a DWR Water Appropriation for Beneficial Use (Storage) permit will be required.

Elevation (ft)	Area (ac)	Total Storage (ac-ft)	Total Storage + Net Evaporation (ac-ft)
785.5	2.76	0.00	0.00
786.0	20.50	5.82	12.65
786.5	26.81	17.65	26.58
787.0 (Auxiliary Spillway)	31.37	32.19	42.65
787.5	36.91	49.26	61.56
788.0 (Top of Dike)	49.77	70.93	87.52

Dike 1 Stage Storage Table

Base Flood Analysis

The project is located within the FEMA Zone A flood boundary of the Neosho River. Therefore, a floodplain fill permit will be required. DWR confirmed there are no permitted projects within ¼ mile from the proposed dike. Therefore, a geometric base flood analysis was completed to determine the increase in base flood area and flood elevation. The elevation of the existing ground and channels was approximated from LiDAR topographic data and the U.S. Geological Survey (USGS) 7.5-minute quadrangle map. The Base Flood Elevation (BFE) for the project location was determined by William Pace, KDA-DWR. The base flood (FEMA Zone A, 100-yr floodplain) was approximated from the FEMA FIRM data (Map Number FM20021C0275, Unincorporated areas of Cherokee County, KS) The proposed dike will increase the base flood area by 0% and the base flood elevation by 0.01 feet. See Base Flood Analysis plan sheets for further detail.



KS Dept. of Agriculture