



THE STATE OF KANSAS

WATER RESOURCES RECEIVED JUL 10 2024 11:58 KS Dept. of Agriculture

KANSAS DEPARTMENT OF AGRICULTURE Mike Beam, Secretary of Agriculture

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

File Number 51265 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 Print): Joel Taylor (email: jtaylor@theriverslodge.com) Address: 417 W Grand Ave City: La Cygne State KS Zip Code 66040 Telephone Number: (816) 547-2847

2. The source of water is: [X] surface water in Marais des Cygnes (stream) OR [] groundwater in (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources. Top of dike storage + net evaporation = 56.57 ac-ft; Maximum quantity desired is three pumps per year at top of dike + evaporation.

3. The maximum quantity of water desired is 170 acre-feet OR gallons per calendar year, to be diverted at a maximum rate of 5,000 gallons per minute OR cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can NOT be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended): (a) [] Artificial Recharge (b) [] Irrigation (c) [X] Recreational (d) [] Water Power (e) [] Industrial (f) [] Municipal (g) [] Stockwatering (h) [] Sediment Control (i) [] Domestic (j) [] Dewatering (k) [] Hydraulic Dredging (l) [] Fire Protection (m) [] Thermal Exchange (n) [] Contamination Remediation

YOU MUST COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only: F.O. 1 GMD - Meets K.A.R. 5-3-1 (YES / NO) Use REC Source G/S County LN By KJN Date 7/10/24 Code RF2 Fee \$ 300 TR # Receipt Date Check # 188

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

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 quarter section of land. (A) - Pump Site (Direst Diversion)

(A) One in the NW quarter of the SE quarter of the NE quarter of Section 9, more particularly described as being near a point 3,937 feet North and 740 feet West of the Southeast corner of said section, in Township 20 South, Range 24 East, Labette Linn County, Kansas.

(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 section, in Township _____ South, Range _____, _____ County, Kansas.

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 quarter (¼) 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):

JBB Farms LLC; 6299 Nall Ave, Ste 200, Mission, Kansas 66202; 816-547-2847
(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 7/8, 2024. [Signature]
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.

7. The proposed project for diversion of water will consist of one (1) direct diversion pump site
(number of wells, pumps or dams, etc.)
and will be completed (by) following approval
(Month/Day/Year - each was or will be completed)

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

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9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
 Yes 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? Yes No

- If yes, show the Water Structures permit number here Floodplain fill permit pending
- If no, explain here why a Water Structures permit is not required _____

11. The application must 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.

None

The dike will surround the full perimeter of the proposed wetland cell. All drainage into the cell will be from direct rainfall. No overland flow runoff will be allowed to enter the wetland cell. Therefore, a beneficial use (storage) permit will not be necessary

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- 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 completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____
Depth to bottom of pump intake pipe	_____	_____	_____	_____

- 14. The relationship of the applicant to the proposed place where the water will be used is that of agent (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):

JBB Farms LLC: 6299 Nall Ave, Ste 200, Mission, Kansas 66202; 816-547-2847
(name, address and telephone number)

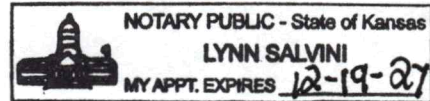
(name, address and telephone number)

- 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.

Dated at _____, Kansas, this 8th day of July, 2024.
(month) (year)

[Signature]
(Applicant Signature)

By [Signature]
(Agent or Officer Signature)



Lynn Salvini
(Agent or Officer - Please Print)

Assisted by Brian Severin, P.E. Sustainable Environmental Consultants Date: 4/25/2023

(office/title)

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FEE SCHEDULE

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	\$200.00
More than 250	\$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

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**RECREATIONAL USE
SUPPLEMENTAL SHEET**

File No. _____

Name of Applicant (Please Print): Joel Taylor

1. Please indicate type of recreational use (boating, fishing, swimming, etc.): Construction of a low 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: _____

Proposed wetland storage + net evaporation (1 cell) = 56.57 acre-feet

Proposed Marais des Cygnes River direct diversion = 170 acre-feet (3 pumps / year)

Water from the river will be pumped into adjacent wetland cell. Excess water will be released back into the river at the end of the hunting / migratory season

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

ESTIMATED FUTURE WATER DIVERTED/STORED

NEXT 5 YEARS	WATER TO BE DIVERTED (ACRE-FEET OR GALLONS)
Year 1	170 acre-feet
Year 2	170 acre-feet
Year 3	170 acre-feet
Year 4	170 acre-feet
Year 5	170 acre-feet

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.

NE 1/4 Sec 9, T-20S; R-24E (see plan sheets)

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

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7/10/24
(Date)

Kansas Department of Agriculture
Division of Water Resources
Earl D. Lewis, Jr., Chief Engineer
1320 Research Park Drive
Manhattan, Kansas 66502

Re: Application
File No. _____

Minimum Desirable Streamflow

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

[Handwritten Signature]
Signature of Applicant

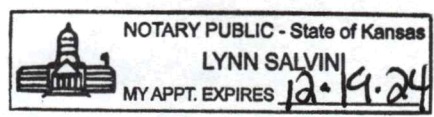
JOEL TAYLOR
(Print Applicant's Name)

State of Kansas)
County of Miami) ss

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 8 day of July, 2024.

[Handwritten Signature]
Notary Public

My Commission Expires:



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**MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN
APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT
TO APPROPRIATE WATER FOR BENEFICIAL USE**

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River



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Environmental Consultants

JBB Farms LLC

Wetland Development (New Construction)

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Prepared by:

Brian Severin, P.E., Director of Agricultural Engineering
bseverin@sustainableenviro.com
785-207-0201

April 28, 2023



Design Report

Project Information

- Name: JBB Farms LLC
- Legal: NE 1/4 Sec 9, T-20S; R-24E
- Location: Linn County, Kansas

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Project Description

The project is located along the Marais des Cygnes 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 a drainage area of 19.0 acres. The drainage area is from direct rainfall into the wetland cell. There is no overland flow runoff that is allowed to enter the wetland cell. The low-level dike is expected to overtop flood events. The structure was 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 times throughout the year. The wetland cell (permit pending) will be supplemented with pumped surface water from the Marais des Cygnes River.

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
- Kansas Department of Agriculture, Division of Water Resources: DWR 2-200 Floodplain Fill
- Kansas Department of Health and Environment: Notice of Intent (NOI) for Authorization to Discharge Stormwater Runoff from Construction Activities

Environmental Considerations

An erosion control plan has been developed to address pollution during construction. The existing vegetation will serve as a pollution buffer. Additional sediment control measures (seeding / mulching the dike berms and installing sediment control structures) will reduce the potential of sediment leaving the site. Sediment control structures will be installed prior to construction and maintained until vegetation is established. Due to the type of the construction work and natural topography, no other control measures are required.

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 area was surveyed by Matt Miller, Engineering Technician, Sustainable Environmental Consultants using survey grade GPS equipment. The survey data was OPUS corrected and transformed to Kansas State Plane, Zone South (1502) US Survey Feet, NAVD88 Vertical Datum, 2018 Geoid. The project is tied to permanent benchmarks labeled and described on the Plan Sheets.



Appendix

The attached Appendix includes Plan Sheets, Construction Specifications, KDA-DWR Report, Stormwater Pollution Prevention Plan, and Permit Documentation.

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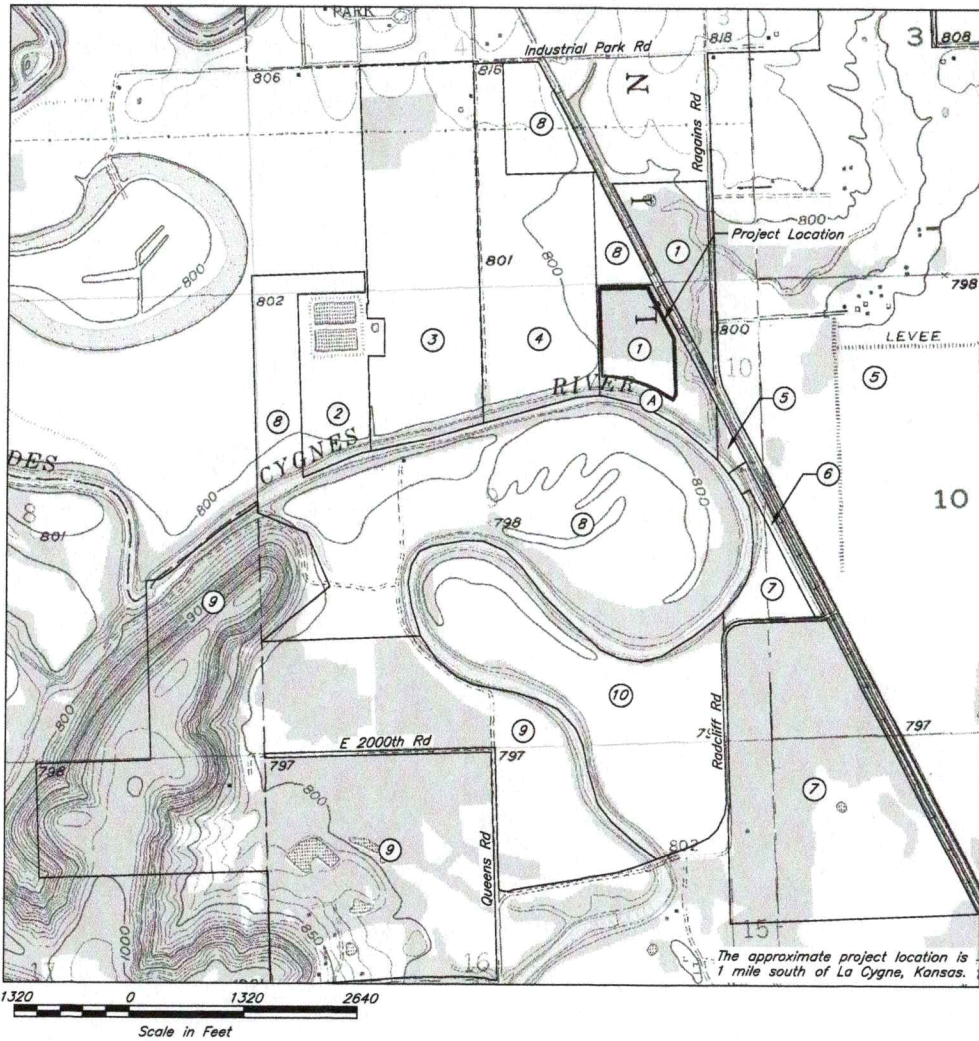


Table of Quantities			
Item	Unit	Design Quantity	As-Built Quantity
Sediment Control	lin ft	50	
Earthfill			
Dike 1	cu yd	6,010	
Water Control Structure			
Inline Water Control Structure, 4' tall	each	1	
Pipe, 12-inch dia. SDR 35 PVC	lin ft	63	
Bar Guard, 12-inch dia.	each	1	
Rat Guard, 12-inch dia.	each	1	
Pipe Anchor (Assembly)	each	1	

Upstream and Downstream Landowners

- 1) Project Location
JBB Farms LLC
6299 Nall Ave, Ste 200
Mission, Kansas 66202
- 2) City of La Cygne
PO Box 600
La Cygne, Kansas 66040
- 3) Cummings William P & Marian K Trust
PO Box 112
Amsterdam, Missouri 64723
- 4) Hudson M R Trust
PO Box 419692
Kansas City, Missouri 64141
- 5) Aust, Bradley K & Janell G
20999 Ragains Rd
La Cygne, Kansas 66040
- 6) Kansas City Power & Light Co and
Kansas Gas & Electric
120 E First St
Wichita, Kansas 67202
- 7) Getter Farms LLC
Attn: Jeff Yowell
4108 W 91st St
Prairie Village, Kansas 66207
- 8) Hudson Michael Wayne Trust
PO Box 419692
Kansas City, Missouri 64141
- 9) C4 River Lodge LLC
3012 W 120th Terr
Leawood, Kansas 66209
- 10) Field of Beans LLC
C/O John B Sturgeon
13105 Grandada Dr
Leawood, Kansas 66209

Points of Diversion

- A) Pump Site - Direct Diversion

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Date	Designed	Drawn	Checked	Approved
04/23	B Severin	B Severin	M Miller	B Severin
04/23				
04/23				
04/23				

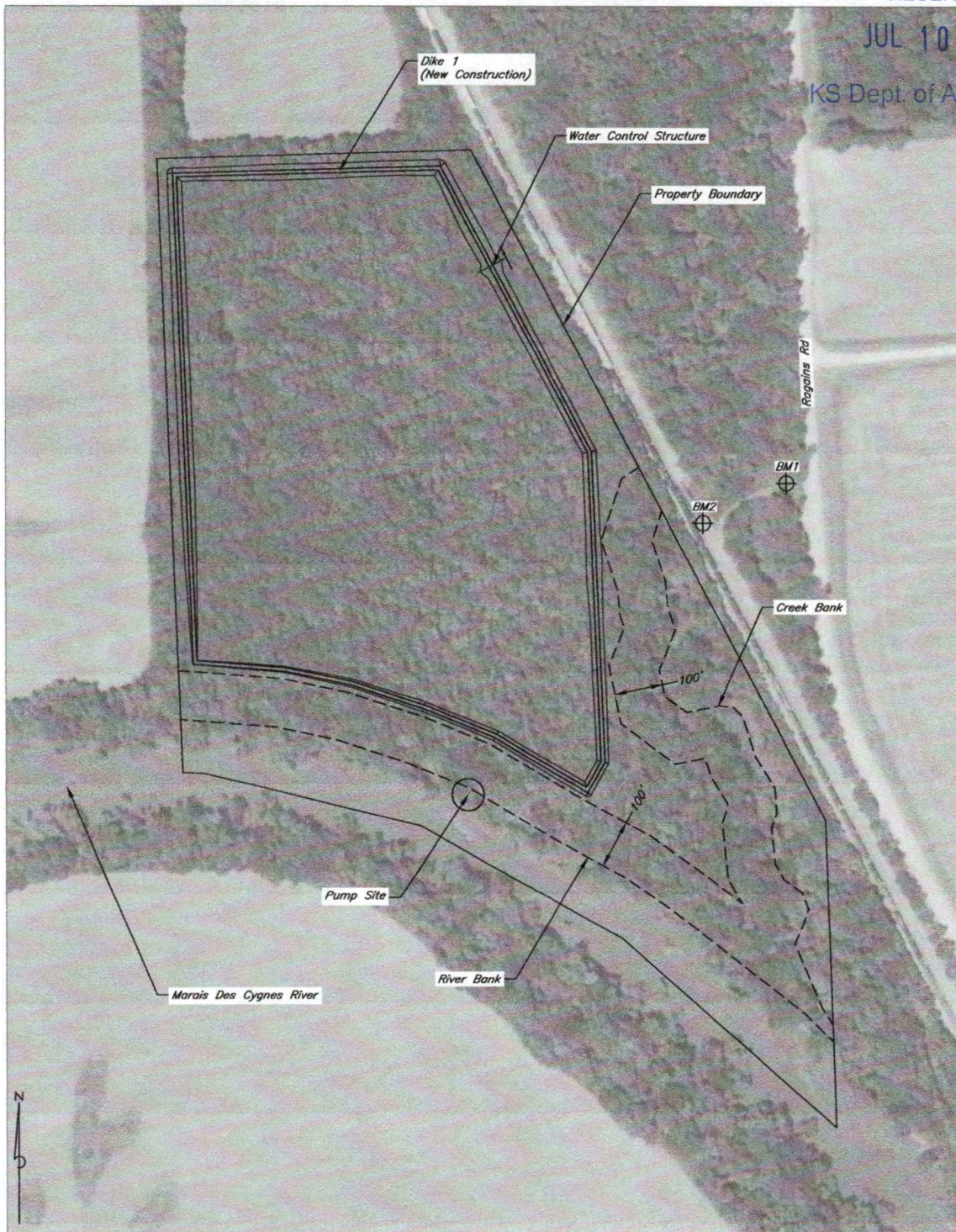
JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

SUSTAINABLE
Environmental Consultants

Location Map and Table of Quantities

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Benchmark Table				
Benchmark	Northing	Easting	Survey Elevation	Description
BM1	1939061.33	2387152.16	799.25	Top of rebar
BM2	1938978.80	2386979.36	803.84	Southeast corner of concrete

Orthographic Plan Map

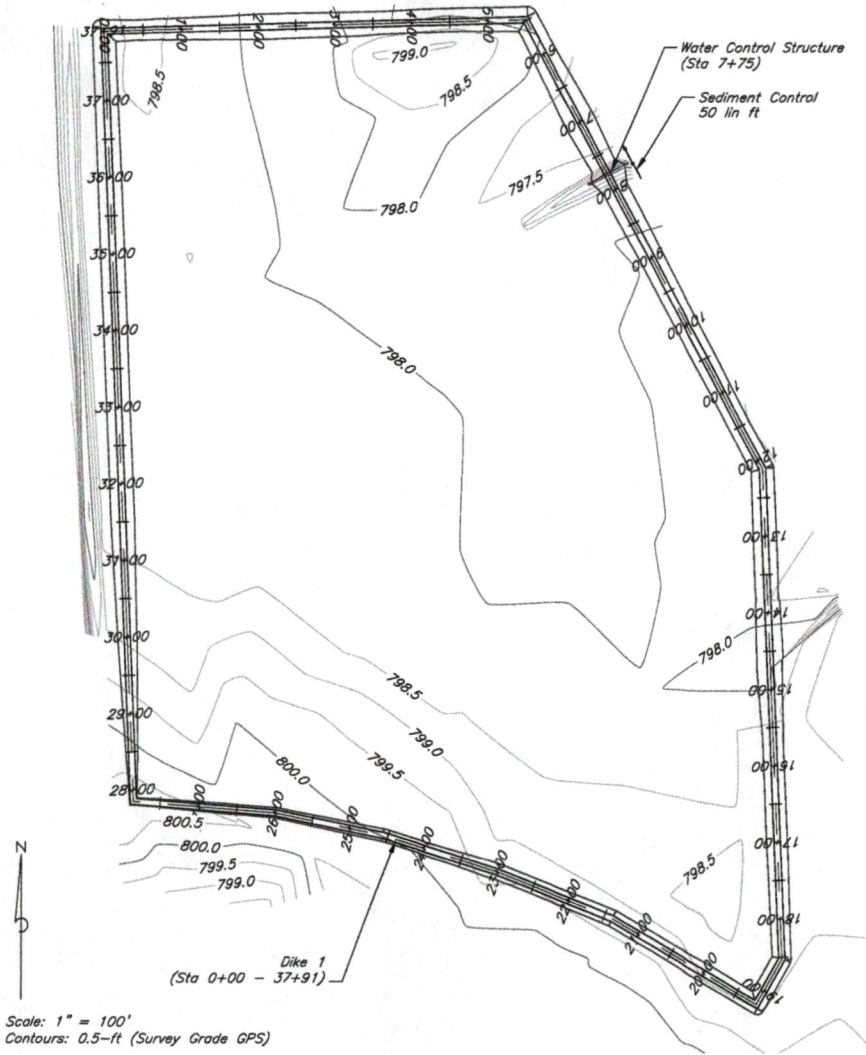
Sheet 3 of 9



JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

Designed	B Severin	04/23
Drawn	B Severin	04/23
Checked	M Miller	04/23
Approved	B Severin	04/23

Note:
The borrow area shall be located
within the dike storage area



Dike 1 Stage Storage Table

Elevation (ft)	Area (ac)	Total Storage (ac-ft)	Total Storage + Net Evaporation (ac-ft)
796.0	0.00	0.00	0.00
796.5	0.01	0.00	0.00
797.0	0.03	0.01	0.02
797.5	0.23	0.08	0.15
798.0	5.10	1.41	3.11
798.5	14.25	6.25	11.00
799.0	16.54	13.95	19.46
799.5	17.51	22.46	28.30
800.0	18.39	31.44	37.57
800.5	18.86	40.75	47.03
TOD 801.0	19.04	50.22	56.57

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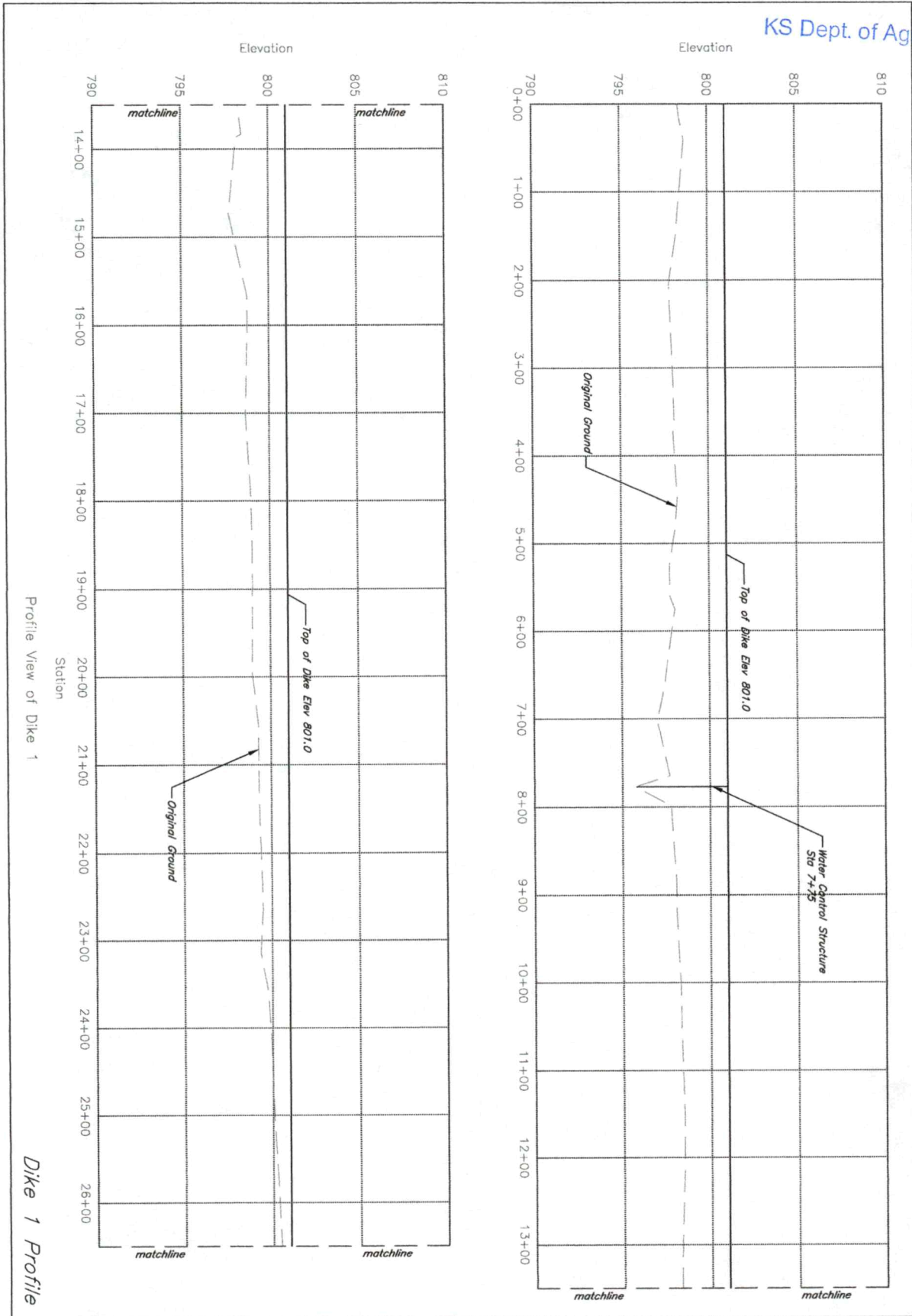
Topographic Plan View and Storage Table

Date 04/23
Designed B. Severin
Drawn B. Severin
Checked M. Miller
Approved B. Severin

JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

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Dike 1 Profile

Sheet 5 of 9

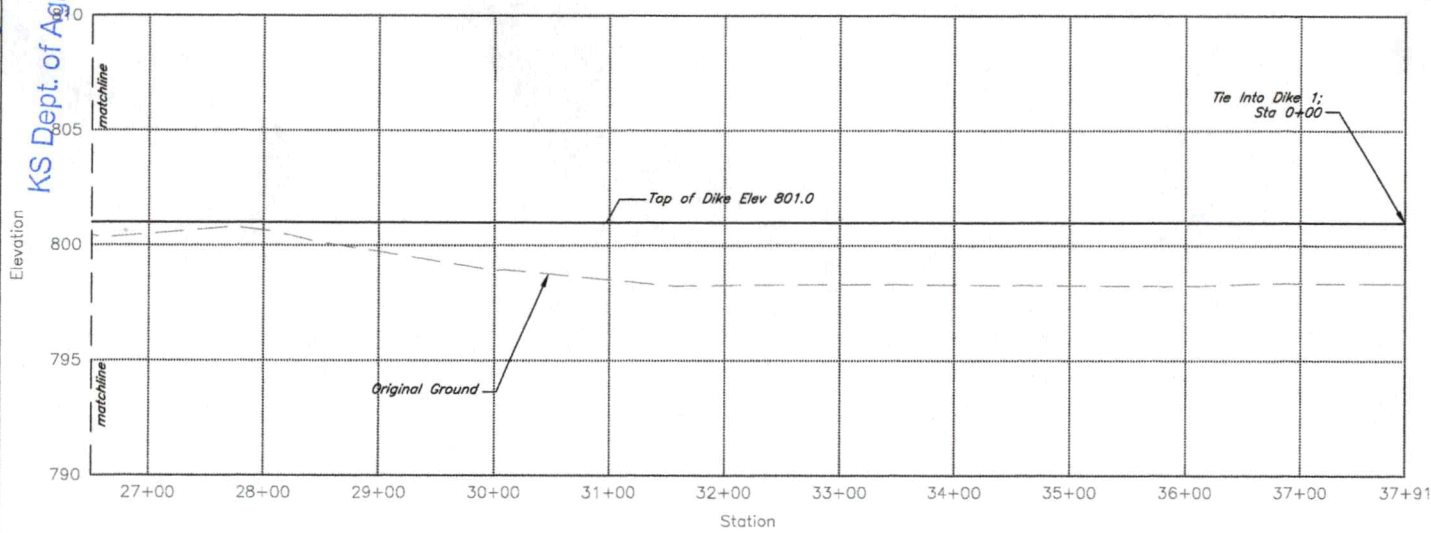


JBB Farms LLC
 Wetland Development
 NE 1/4 Sec 9, T-20S; R-24E
 Linn County, Kansas

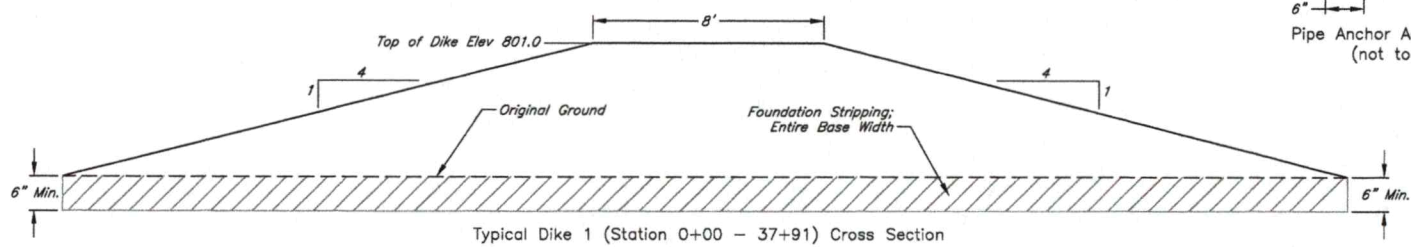
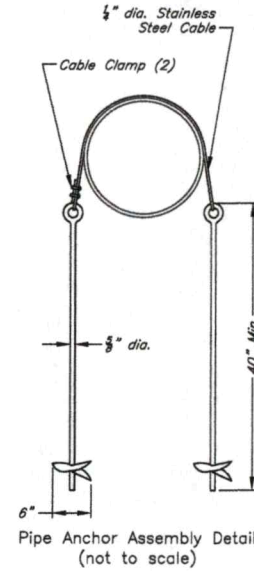
Designed	<u>B Severin</u>	Date	<u>04/23</u>
Drawn	<u>B Severin</u>		<u>04/23</u>
Checked	<u>M Miller</u>		<u>04/23</u>
Approved	<u>B Severin</u>		<u>04/23</u>

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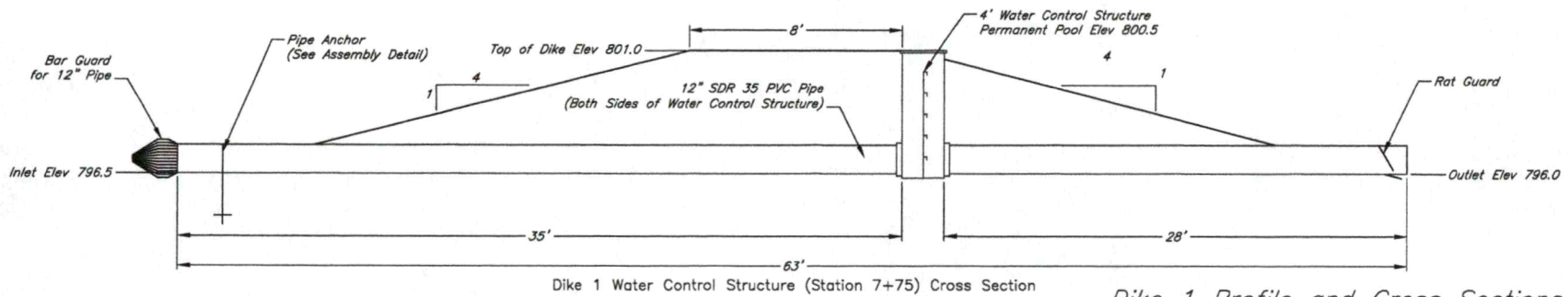
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Profile View of Dike 1



Typical Dike 1 (Station 0+00 - 37+91) Cross Section



Dike 1 Water Control Structure (Station 7+75) Cross Section

Dike 1 Profile and Cross Sections

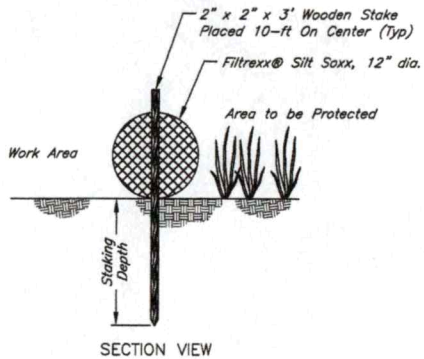
Date	04/23
Designed	B. Severin
Drawn	B. Severin
Checked	M. Miller
Approved	B. Severin

JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

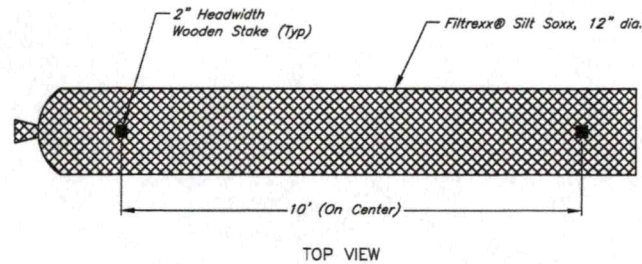
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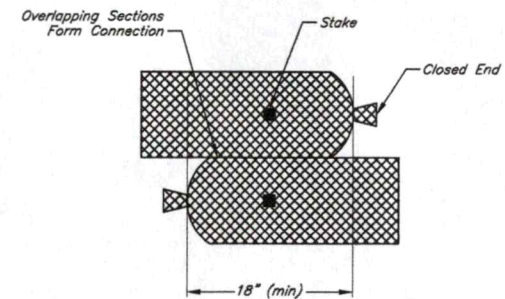
SECTION VIEW



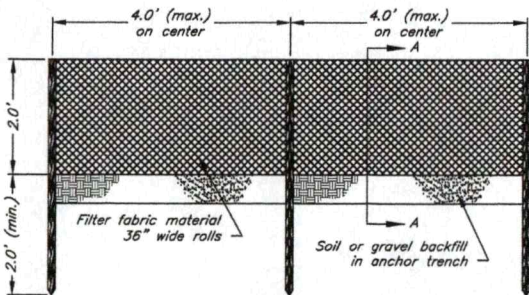
TOP VIEW

GENERAL NOTES FOR FILTRAXX® SILT SOXX (PERIMETER CONTROL):

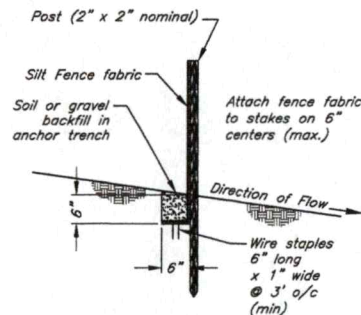
1. Perimeter control shall be installed parallel to the base of the slope or other disturbed area.
2. Stakes should be installed through the middle of the perimeter control on 10 ft centers, using 2 in x 2 in x 3 ft wooden stakes.
3. Staking depth for sand and silt loam soils shall be 12 inches, and 8 inches for clay soils.
4. Loose compost may be backfilled along the upstream side of the perimeter control, filling the seam between the soil surface and the device, improving filtration and sediment retention.



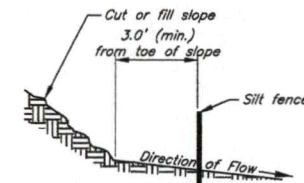
CONNECTION / ATTACHMENT DETAIL



SILT FENCE BARRIER
FRONT VIEW



SECTION A-A



TYPICAL SILT FENCE
PLACEMENT

GENERAL NOTES FOR SILT FENCE:

1. Posts are to be installed on the downhill side of the geotextile.
2. Backfill anchor trench with compacted soil or gravel.
3. Install silt fence along contour lines, with a short section turned upgrade at each end of the barrier.
4. Where possible, lay out the silt fence 5.0 ft to 6.0 ft beyond the toe of the slope.
5. Extend the bottom 12" of the filter fabric to line the front and bottom of the trench.
6. Maintain a properly functioning silt fence throughout the duration of the project or until disturbed areas have been vegetated.
7. Remove sediment as it accumulates and place it in a stable area approved by the engineer.
8. Fasteners: The geotextile may be attached to the posts using geotextile pockets, staples, or nails. Staples shall be no. 17 gauge minimum and shall have a minimum 0.75 in. wide crown and 0.5 in. long legs. Nails shall be a minimum of 14 gauge, 1 inch long, with 0.75 in. button heads. Spacing shall be 6" maximum.
9. When joints are necessary, geotextile shall be spliced together at a support post with a minimum overlap of 18 inches, and securely sealed.

Sediment Control Detail

Date	04/23
Designed	B. Severin
Drawn	B. Severin
Checked	M. Miller
Approved	B. Severin

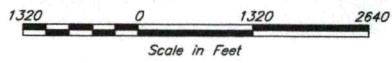
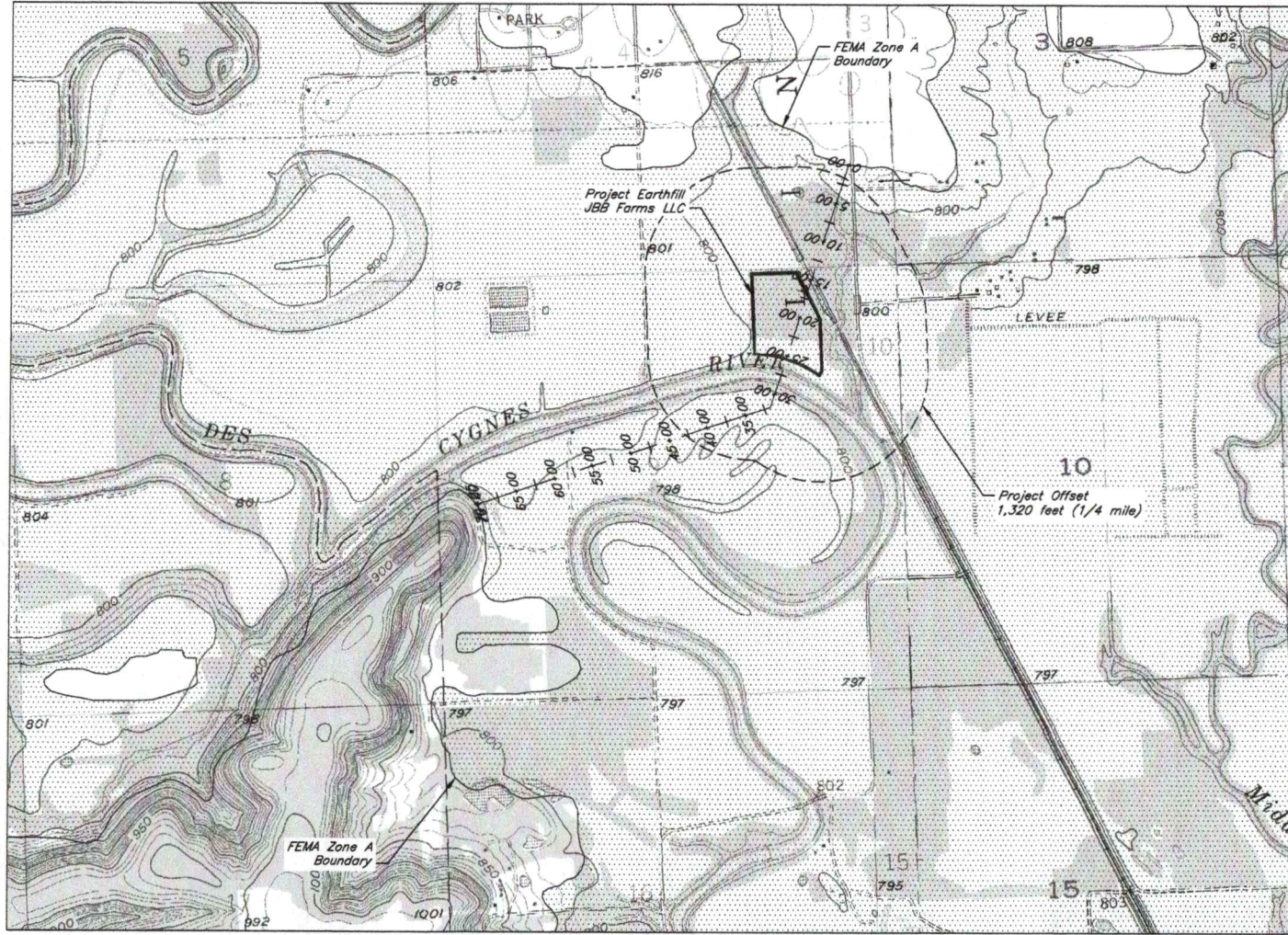
JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

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Environmental Consultants

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Base Flood Analysis

Designed	B. Severin	Date	04/23
Drawn	B. Severin		04/23
Checked	M. Miller		04/23
Approved	B. Severin		04/23

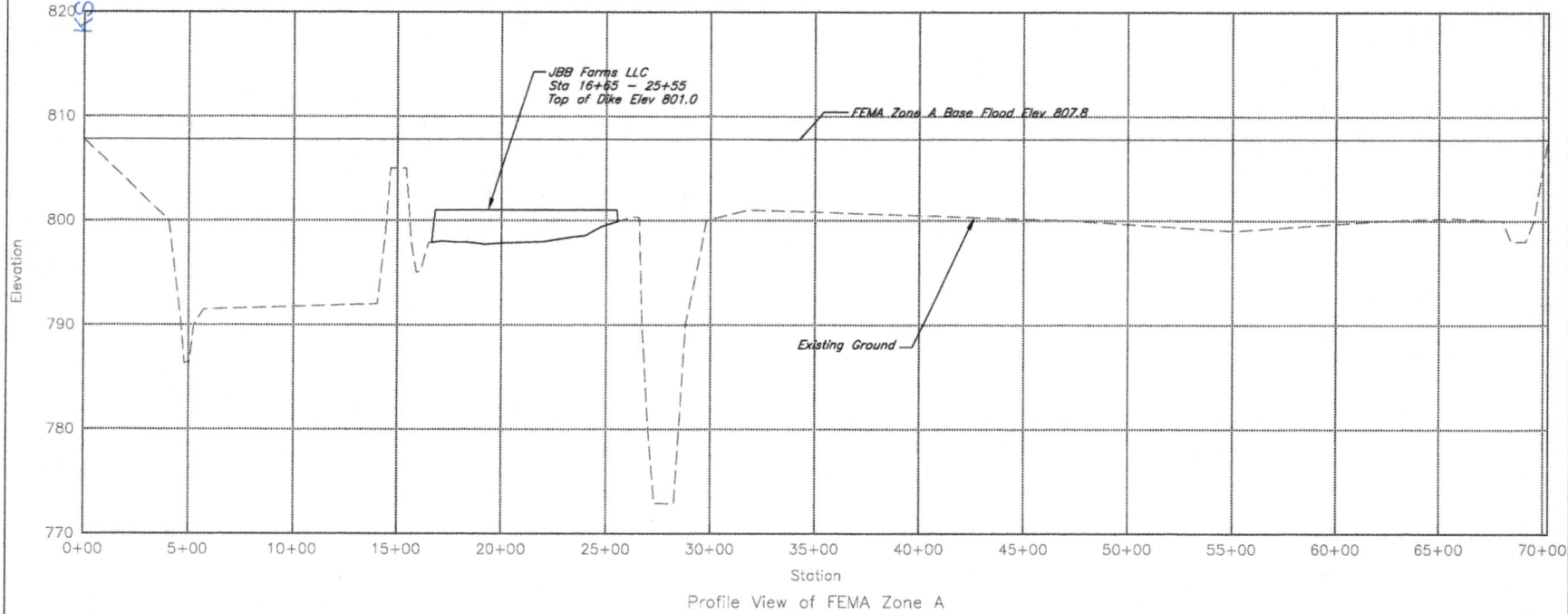
JBB Farms LLC
Wetland Development
NE 1/4 Sec 9, T-20S; R-24E
Linn County, Kansas

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References:
 Existing ground and channels: Topographic survey and the U.S. Geological Survey (USGS)
 7.5 minute quadrangle map
 Base Flood Elevation Determination: KDA - Division of Water Resources
 FEMA Zone A Floodplain: National Flood Insurance Program, Flood Insurance Rate Map (FIRM)
 Map Numbers FM20107C01B4C, FM20107C0200C, FM20107C0203C, FM20107C0225C,
 Unincorporated areas of Linn County, KS (11/02/2007)

Base flood elevation = 807.8
 Base flood section area = 68,300 sq. ft.
 Top width of base flood section = 7,025 ft.
 Maximum earthfill area below base flood elevation = 2,440 sq. ft.

Earthfill will increase base flood area by 4%
 Earthfill will increase base flood elevation by 0.35 ft.

Base Flood Analysis Completed By: Brian W Severin Date: 04/25/2023

Date	04/23
Designed	B Severin
Drawn	B Severin
Checked	M Miller
Approved	B Severin

JBB Farms LLC
 Wetland Development
 NE 1/4 Sec 9, T-20S; R-24E
 Linn County, Kansas

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Construction Specifications

KS Dept. of Agriculture

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.

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.

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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) Project Report

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 top of dike, as there are no auxiliary spillways for this dike. 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. However, there is no contributing surface runoff, as all wetland hydrology is supplied by direct rainfall into the wetland cell. Therefore, a DWR Water Appropriation for Beneficial Use (Storage) permit is not required.

Dike 1 Stage Storage Table			
Elevation (ft)	Area (ac)	Total Storage (ac-ft)	Total Storage + Net Evaporation (ac-ft)
796.0	0.00	0.00	0.00
796.5	0.01	0.00	0.00
797.0	0.03	0.01	0.02
797.5	0.23	0.08	0.15
798.0	5.10	1.41	3.11
798.5	14.25	6.25	11.00
799.0	16.54	13.95	19.46
799.5	17.51	22.46	28.30
800.0	18.39	31.44	37.57
800.5	18.86	40.75	47.03
801.0 (Top of Dike)	19.04	50.22	56.57

Direct Diversion

A pumping site is proposed to control and maintain the wetland hydrology. The pumping site will be located as shown on the plan sheets, with the water source being the Marais des Cygnes River. Therefore, a Water Appropriation for Beneficial Use (Direct Diversion) permit will be required.

Base Flood Analysis

The project is located within the FEMA Zone A flood boundary of the Marais des Cygnes River. Therefore, a floodplain fill permit will be required. A 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 onsite topographic survey and the U.S. Geological Survey (USGS) 7.5-minute quadrangle map. The Base Flood Elevation (BFE) for the project location was determined by Patrick Bonine, KDA-DWR. The base flood (FEMA Zone A, 100-yr floodplain) was approximated from the FEMA FIRM data (Map Numbers FM20107C0184C, FM20107C0200C, FM20107C0203C, FM20107C0225C, Unincorporated areas of Linn County, KS). The proposed dike will increase the base flood area by 4% and the base flood elevation by 0.35 feet. See Base Flood Analysis plan sheets for further detail.

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KS Dept. of Agriculture
Phone: 785-296-5733
www.agriculture.ks.gov

Topeka Field Office
1131 SW Winding Rd, Suite 400
Topeka, KS 66615



Mike Beam, Secretary

Laura Kelly, Governor

March 13, 2023

Brian Severin
1416 Presby Dr
Emporia, Kansas 66801

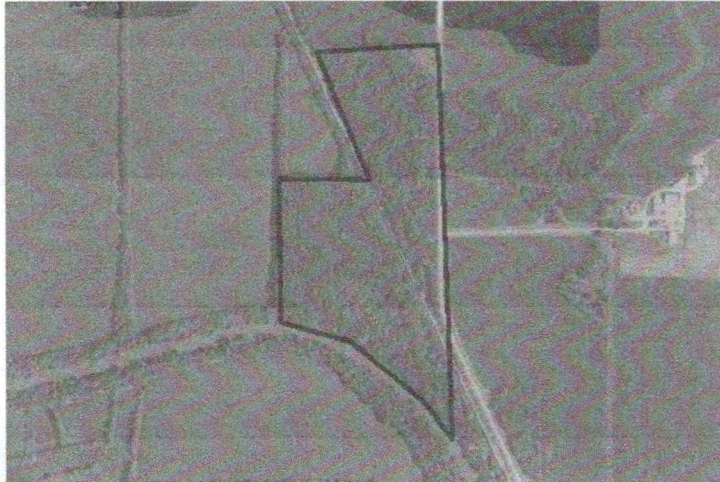
Re: Base Flood Elevation Determination
Ragains Rd

Dear Brian Severin,

This is in response to your request for a Base Flood Elevation (BFE) for the property at 20S24E09 La Cygne, KS. The subject property is mapped within Zone A on panel 20107C0184C with the current effective date of 11/2/2007. The base flood elevation for the subject property is 807.8 Feet NAVD 88. Attached is a map of the property. The BFE calculation was developed using draft excess rainfall-on-grid hydrology and 2-D HEC-RAS hydraulics that utilized high resolution LiDAR data as the ground elevation source. These methods were used as part of a project to update the maps in Linn County. The project is ongoing and BFE values are subject to increase or decrease upon further review of the mapping procedures.

Based on the LiDAR, the approximate Lowest Adjacent Grade (LAG) for the user drawn polygon is 773.3 Feet NAVD 88. LiDAR data is believed to be accurate to within a foot of actual ground elevation barring any land changes. This data is provided as a reference only and is not survey grade accurate and cannot be used in FEMA Letter of Map Amendment (LOMA) Applications.

Larger floods than the 1% event are possible and the source modeling for the BFE was developed using approximate methods. Structures located above the determined BFE are not guaranteed to be safe from flooding. The Kansas Department of Agriculture, Division of Water Resources recommends purchasing flood insurance. Talk to your insurance agent for more details.



Panel	Panel Type	Firm Panel	Effective Date
0184	CW	20107C0184C	11-01-2007

Sincerely,

A handwritten signature in black ink that reads "Patrick Bonine". The signature is written in a cursive style.

Patrick Bonine
Floodplain Mapping Specialist
Division of Water Resources

JUL 10 2024



Stormwater Pollution Prevention Plan KS Dept. of Agriculture

Stormwater Overview

Stormwater enters the project site as direct rainfall and seasonal flooding. There is no overland flow runoff allowed to enter the wetland cell. The dike will serve as a sediment basin for the contributing drainage area. The wetland storage area and borrow excavation will trap suspended pollutants, both during and after construction.

Areas of Disturbance

The estimated total area of disturbance for this project is approximately 7.5 acres. The primary area of disturbance will be in the designed structure and borrow area locations. Additional disturbance will occur in construction travel lanes. Travel lanes shall be smoothed at the project conclusion. Existing vegetation buffering the construction zone will be left undisturbed.

Description of Best Management Practices

Construction of the dike and borrow area creates additional onsite sediment storage. Sediment control measures will be installed in the natural field drain down gradient of the water control structure. The dike berm will be seeded to permanent vegetation and mulched within 14 days after soil disturbing activities are completed. The existing vegetation around the easement perimeter shall be left undisturbed.

Other Pollution Controls

Trash, scraps, and shipping wastes will be collected and disposed offsite. Construction equipment will be monitored for leaks. Equipment will be maintained in good working condition to reduce leakage. Petroleum products shall be stored in tightly sealed containers that are clearly marked. Any discharge or escape of sewage, substances, materials, or wastes, which contaminate, or threaten to contaminate or alter any of the properties of the waters of the State or pollute soil in a detrimental, harmful, or injurious manner or will create a nuisance, shall be immediately reported to the Kansas Department of Health and Environment (KDHE). The report shall be made by telephone to the KDHE Spill Reporting Number (24/7) at 785-296-1679. The spiller is responsible to report to all the appropriate state agencies depending on the material and volume spilled.

Maintenance of Control Measures

All control measures will be inspected within 24 hours following any storm event exceeding ½ inch of precipitation. Regular inspection will be completed until vegetation is established and the Notice of Termination is submitted. All measures will be maintained in proper working order with as needed repairs being completed in a timely manner. The contractor will be responsible for monitoring, maintenance, and repairs during the construction period only.

Permanent Pollution Control

The wetland cell, permanent grasses/forbs, and hydrophytic vegetation will serve as permanent pollution control for the project site.

Construction Sequence

To minimize the off-site effects of erosion and sedimentation, the sequence of major soil disturbing construction activities shall be as follows:

1. Sediment Control Installation
2. Dike Foundation Stripping
3. Borrow Area Excavation and Dike Construction
4. Grass Seeding and Mulching

Estimated Project Start: 7/1/2023

Estimated Completion: 8/1/2023; Estimated NOT: 6/1/2024

1320 Research Park Drive
Manhattan, KS 66502
785-564-6700
www. agriculture.ks.gov



900 SW Jackson, Room 456
Topeka, KS 66612
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

July 22, 2024

JOEL TAYLOR
417 W GRAND AVE
LA CYGNE KS 66040

RE: Application, File No(s). **51265**

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at agriculture.ks.gov/divisions-programs/dwr. If you have any other questions, please contact our office at 785-564-6640 or your local Topeka Field Office at 785-296-5733. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser
New Applications Lead
Water Appropriation Program