

Applicant:

Almena Irrigation District No. 5

Post Office Box 275

Almena, KS. 67622

Project Manager:

Craig Ingram, President

Almena Irrigation District No. 5

Phone: 785-543-4055

Email: aidno5@ruraltel.net

Small Scale Water Efficiency Projects

BOR-DO-21-F001

The Almena Irrigation District (AID) is applying for BOR-DO-21-F001 funding to convert approximately ten miles of the Almena Irrigation District's south canal serving 1,520 acres to underground pipe and pump stations along Prairie Dog Creek. The District three years ago implemented this conveyance system on 1,026 acres of our 5,763 total District boundaries. The District went from being 30% efficient in water deliveries to 100% efficient. The District water right 6,938a allows the District to capture stream flows above the District's diversion dam. In 2019 when we had extensive flooding and Harlan County Reservoir was above conservation level. AID called Kansas Division of Water Resources and asked if we could divert natural flows without making a release from Norton Dam the Chief Engineer of DWR informed the District that our water right is very unique in allowing for diversions of natural stream flows without making a release from Norton Dam. AID was unaware we could divert

water in this manner, this gives the District a lot of options. AID was able to divert 489 acre feet of water in 2020 measured through micrometer meters.

With no release made from Norton Dam. AID estimates the total acre feet savings was 1,500 acre feet of water AID was able to continue to store in Norton Reservoir.

Table of Contents

Title Page	Page 1 thru 2
Table of Contents	Page 3 thru 4
Executive summary	Page 5
Project Location	Page 6 thru 7
Technical project description	Page 8 thru 9
Evaluation criteria II	
A-Quantifiable Water Savings	Page 10
B-Water Supply Reliability	Page 11
D-Complementing on Farm Irrigation Improvements	Page 12
E- Department of Interior & BOR Priorities	Page 13 thru 14
F-Implementation and Results	Page 15 thru 19
G-Nexus to Reclamation Project	Page 20
H- Additional Non Federal Funding	Page 21
I- Project Budget Funding Plan	Page 22 thru 22a
Budget Proposal Format Narrative	Page 23
J-Environmental and cultural resources compliance	Page 24
K-Required permits or approvals	Page 25
L-Letters of support	Page 26 thru 26c
26 A Norton County Community Foundation letter	
26 B Almena Irrigation District President Letter of support	

**26 C Acting Chief Engineer Kansas Division of Water Resources
Christopher Beightel**

Official Resolutions	Page 27 thru 28
M-Unique Entity Identifier (SAM)	Page 29 thru 29a

N- Project Location Maps of proposed construction

A Main Canal point of diversion	Page 29 thru 30
B Gary Dole E11/E12	Page 31 thru 32
C Nelson Hadley Field's E 12	Page 33 thru 34
D Dole LLC Poage E 13	Page 35 thru 36
E Dole E 13	Page 37 thru 38
F Kim Cole E 14	Page 39 thru 40
G Duane Sell E 14	Page 41 thru 42
H Patricia Bernard E 14	Page 43 thru 44
I Arnold Graham W 1500 Road	Page 45 thru 46
J BK Farms W 1500 Road	Page 47 thru 48
O- SF-424 Application	Page 49 thru 51
A SF-424 Budget Information	Page 52
B SF-424 Assurances – Construction Programs	Page 53 thru 54
C SF-424 Disclosure of Lobbying Activities	Page 55

Executive summary II

August 16, 2020

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

Norton County

The Almena Irrigation District's south canal consists of 1,520 acres. The system is located on the south side of Prairie Dog creek in Norton and Phillips County, Ks. near the Kansas and Nebraska boarder in northwest Kansas. The District's south canal starts just south of Almena, Kansas and heads east along Prairie Dog creek and ends in Phillips County, Ks.

The project will consist of converting approximately ten miles of open canals, to buried pipe and metered pump stations along Prairie Dog creek. AID expects to increase our efficiency to 100%. AID can divert from Norton Dam and use Prairie Dog creek as a conduit to deliver water on a one for one basis using the flows of Prairie Dog creek.

AID has the ability to divert natural stream flows above the District's diversion dam, a lot of our deliveries could be made without releasing water from Norton Dam. AID estimates we could save 1,200 acre feet of water annually. The pump stations will have screens to prevent fish from entering the pumps.

AID expects to install the system as soon as weather permits beginning in 2021 and have completed by water delivery season of 2021.

This project is not located on a Federal facility.

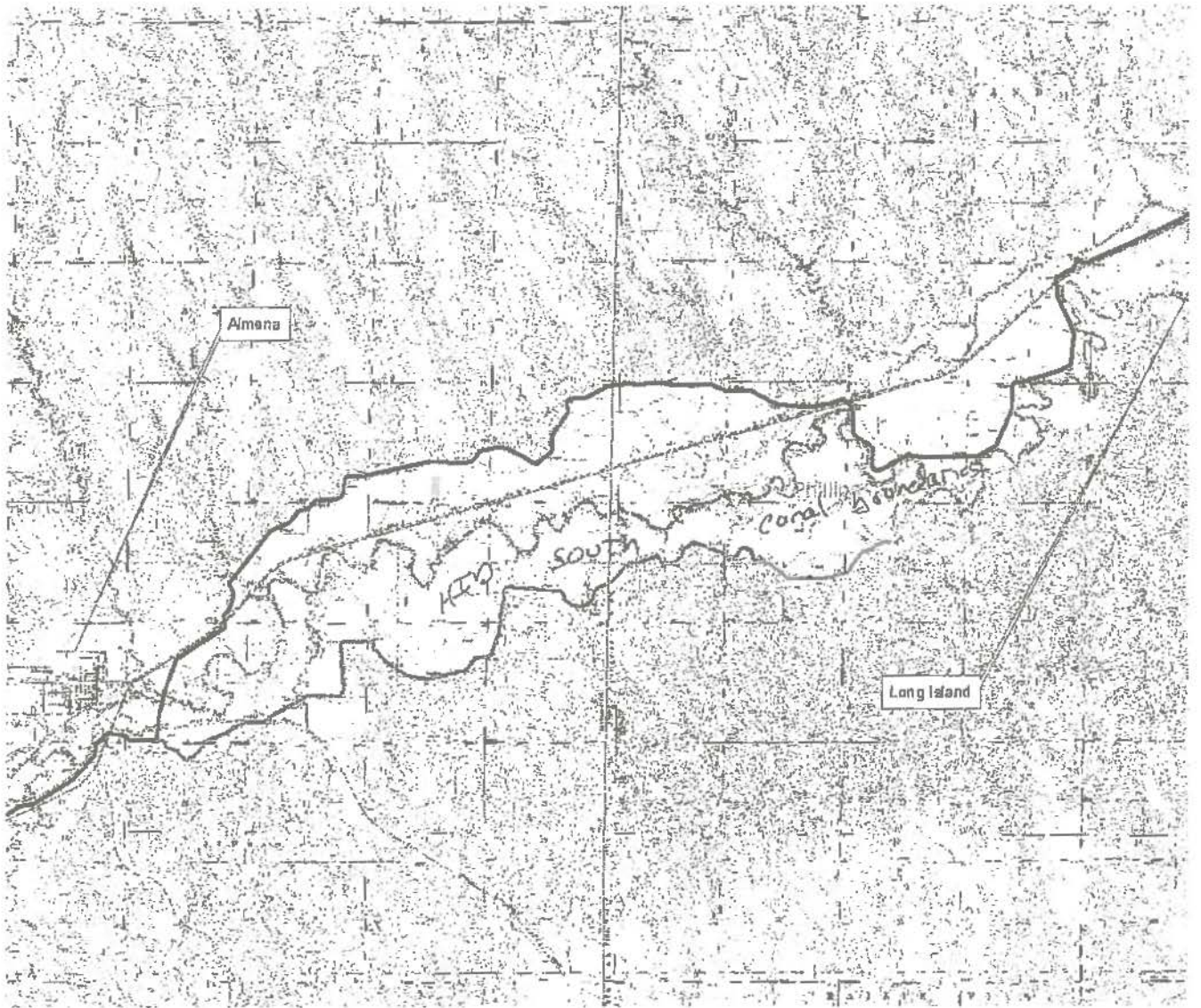
Project Location II

Almena Irrigation District No. 5

Post Office Box 275

Almena, KS 67622

The project is located in Norton and Phillips, County Kansas in northwest Kansas near the Nebraska border. The south canal project sets along the south banks of Prairie Dog creek starting ½ mile south east of Almena, Kansas see attached map.



Technical Project Description II

Almena Irrigation District

Post Office Box 275

Almena, Kansas 67622

This project will consist of 7 Dobbs floating creek pumps to provide water to BOR lands. All pump stations will have screens to prevent fish from entering the pump. All pump sites will have a micrometer meters, enhanced with Ag Sense technology that will show total GPM being diverted sent to District Superintendent and DWR smart phone, check valve to prevent backflow, gray shut off gate valve, lift to remove pump from creek.

Pumps are electric with power source nearby, power will be installed to pump site, pumps will have a control panel to turn on and off.

This project will consist of 29,535 feet of eight inch diameter plastic pipe, 80 psi pipe buried four foot deep

This project will consist of 4,550 feet of 12 inch diameter

This project will require 600 feet of 24 inch pipe and two 24 inch 90 degree elbows for the Almena Main Canal point of diversion into Prairie Dog Creek.

This project requires 34,085 feet of tracer wire.

This project requires 15 micrometer meters.

This project requires 11 Ag Sense to monitor GPM flow.

Most pipe will be trenched in, some will require backhoe installation.

Pump sites will require some cleanup to the area for easy access.

Most installation of pipe will be on AID easements, AID will acquire easements where needed and forward to BOR. Maps are included for proposed design.

This project requires 1,000 feet of 3/8 steel cable to anchor floating pumps and 100 3/8 cable clamps.

This project requires 1,000 feet of 8 inch high pressure flexible hose to hook up pumps to stationary riser can.

This project requires 16 eight inch micrometer meters

This project requires 8 check valves

This project requires 20 gray shut off valves

This project requires 12 meter tubes wit straightening veins

This project requires 31 riser cans for underground hook up

This project requires 80 8" draw bands to hook pipe to riser cans,

This project requires 1 12"to 8" nipple and 2 12" Tee to 8" nipple

This project requires 12 Ag Sense remote monitoring devices.

Evaluation Criteria II

- Almena Irrigation District
- Post Office Box 275
- Almena, KS. 67622

A. Quantifiable Water Savings

Almena Irrigation District has a water delivery history of being able to only deliver thirty percent of the total diversion from Norton Dam. We have discovered we can be one hundred percent efficient in water deliveries from Prairie Dog creek through pump stations and underground pipe. AID has the potential to save 1,194 Acre Feet of water per year using some natural stream flows without making releases from Norton reservoir.

Seventy percent of our water is lost to seeping into the ground and evaporation. The Almena Irrigation District is located in northwest Kansas. Norton reservoir supplies the water for the District boundaries, and provides recreation and fishing for most of western Kansas.

To give you an exact amount of water saved annually is very difficult. AID over the years has diverted anywhere from 2 to 4 inches annually per acre per year in short ten day delivery periods, then off for ten days then back on depending on rain events.

The District is aware we have to be very restrictive with annual water allotments or we will not have water to deliver in the future, we had the only reservoir in Kansas that did not fill to 100% of active pool level in 2019.

1520 acre x 4 inch allotment = 506 acre feet

AID would have to divert 1700 acre feet of water to get 506 delivered @ 30% efficiency.

Net savings of water by converting to pump stations 1,194 acre feet of water left in Norton reservoir.

If AID is successful in completing this project, we will have converted a total of 2,646 acres of our 5,763 acre district to pump stations or 46% of the District, and we have plans to continue efforts.

AID has CHO flow gates on the canals so it's easy to know what our canal losses are.

Evaluation Criteria II

Almena

Irrigation District

Post Office Box 275

Almena, KS. 67622

B Water Supply Reliability

Almena Irrigation boundaries are in Phillips and Norton County, in northwest Kansas. Drought has always been a major menace to the stability of agriculture in this area of Kansas.

Norton Dam was constructed in 1961 thru 1964. The Almena Irrigation District was completed in 1967 the Norton Dam filled to capacity shortly after completion of construction, deliveries began and in a short amount of years the reservoir was at levels unsustainable for significant deliveries to the District. As a result ground water wells were installed on most District Landowners property. Norton Dam has continued to have a water supply that has to be managed correctly by AID, not only for District members but for recreation and fish and game. The water supply is pretty constant when we use it in a restrictive manner. With the District having the ability to use natural flows from Norton, Ks. to AID diversion dam, is a great benefit for the district when converting to pump stations along Prairie Dog creek, we can be 100% efficient in deliveries to district property this way. When the District is pumping AID surface water, we can stop some ground water pumping resulting in ground water savings and helping promote Prairie Dog stream flows. The District has worked closely with Kansas Division of Water Resources to insure that we deliver enough natural stream flow water into Nebraska, before AID diverts natural stream flows to District lands so not to infringe on the Kansas Nebraska Compact. AID is fortunate to set at the Nebraska border, we have a gauge station that we can tell if we have flows at the end of Prairie Dog creek where it crosses into Nebraska, It is very easy to monitor and makes it a very beneficial use of water.

When Norton Dam has good water elevations recreation, fish and game and the surrounding communities benefit greatly that's the District's goal and to preserve the water.

When the District maintains a higher water elevation in Norton reservoir the city of Norton's drinking water quality is much improved.

Evaluation Criteria II

Almena Irrigation District No. 5

Post Office Box 275

Almena KS. 67622

Implementing Hydropower C

Almena Irrigation District will not be implementing hydropower.

Evaluation Criteria II

Almena Irrigation District

Post Office Box 275

Almena, KS. 67622

Complementing on Farm Irrigation Improvements D

The Almena Irrigation District has worked with individuals in the past to help them secure Equip funding for conversion from flood irrigation to center pivots and AID would certainly engage with all District Landowners to benefit them. Currently we have two District members that are contemplating putting up center pivots in the south canal boundaries. If the District can convert from open canal gravity flow delivery systems, to pressurized pump stations along Prairie Dog creek, these pumps would be able to run a center pivot irrigation system complementing the pivot system, thus making the irrigation system more efficient. One of the potential pivot systems can't be installed as the pivot wheel tracks would run down the center of the canals and pivot bridges won't work. They will not apply for equip funding to put a pivot up before we go to Prairie Dog creek pumping stations.

Four of the pump sites will go from flood irrigation into existing center pivots on District lands reducing ground water pumping and improving efficiency.

Evaluation Criteria II

Almena Irrigation District

Post Office Box 275

Almena KS. 67622

Department of Interior and BOR Priorities E

The Almena Irrigation District is installing Micrometer meters on our points of diversion to accurately measure water deliveries for this south canal project.

The Irrigation District has a difficult time getting water delivered to all landowners in our short ten day water releases, if we convert the south canal to Prairie Dog creek water delivery system AID would be able to get all the water users on, we typically divert 230 Acre Feet per 24 hour period. The goal is to get all water users on and shorten the delivery period up by two days saving additional water for Norton reservoir. This will work very well when District members are able to use natural stream flow and count it against their allotment saving additional water to Norton reservoir.

The pump stations will all have screens to prevent fish from entering the pumps this will promote fisheries.

Almena Irrigation District has worked with Wildlife and Parks and the community of Norton KS. to establish a minimum pool level at Norton reservoir, this has greatly enhanced fish and recreation while supporting the local economy of Norton, County KS.

Almena Irrigation District implemented an early spring water delivery program three years ago, the district worked with fish and game to guarantee them our water releases would be very minimal and would not affect fish spawning and the program, this program worked well with our first 1026 acres converted to Prairie Dog creek water delivery system two years ago. BOR and Kansas Division of Water Resources promoted the program, Almena Irrigation District was able to release and deliver at 100% efficiency.

The water delivery system through the canal systems is not efficient by converting to Prairie Dog creek water delivery, we can reduce Operation and Maintenance, labor expense.

The AID minimum pool level agreement with NCCF has benefited Norton County residences by increasing the quality of water in the reservoir, when the District would pull down to dead pool

2280.4 the water quality was very poor.

This project meets the Department of Interior Priorities such as creating a conservation stewardship by implementing best practices to manage land and water resources with the elimination of open ditch seepage losses, evaporation losses. The increased water delivery system provided through this project will present opportunities for the landowners to implement better use of water and land.

This project supports the White House Public/Private Partnership initiative to modernize U.S. infrastructure by utilizing landowner, District, and Federal funding to pay for this project. The project also meets DOI priority of construction of infrastructure by replacing open ditch to buried pipe.

Evaluation Criterion F II

Almena Irrigation District

Post Office Box 275

Almena, KS. 67622

Implementation and Results F

The Almena Irrigation District No. 5 is part of Reclamations, Pick Sloan Missouri Basin program located along Prairie Dog creek in Norton and Phillips Counties Kansas. The District signed a new repayment contract with the United States effective July 25, 2000. The contract includes the District's conservation operating plan between the United States and the District, which lists the goals to increase delivery efficiency and on farm efficiencies.

Performance measures: The District will be very efficient when converting open ditch to buried pipe, and installing micrometer meters for accurate accounting. The District will save 66% of our water by converting to underground pipe.

District will comply with review of performance.

Readiness to Proceed

The District has no major obstacles to overcome for the completion of this project, its simple straight forward underground pipe to reclamation lands. District anticipates completion of this project by water delivery season of 2021, if funding is approved.

Permits required, District is working on getting easements from district land owners for the proposed project. District will work with Kansas Division of Water Resources for modification of our water right 6938A for permanent points of diversion along Prairie Dog Creek. Kansas law statutes 42-303a allows for Prairie Dog Creek to be a conduit for water delivery.

The District authorized a resolution for conversion of the Almena Irrigation District south canal system to underground pipe and pump stations along Prairie Dog Creek.

The District will comply with all environmental and cultural practices for this project.

WATER CONSERVATION MEASURES:

Bureau of Reclamation

The District agrees to:

Contract

1. Establish a revolving water conservation fund to be utilized for annual costs associated with the water conservation program activities. The funding shall be provided by an annual assessment on all project lands collected by the District as part of their annual operation and maintenance charge. It is provided that these funds may be fully utilized on an annual basis or accumulated to allow the District to perform water conservation projects that would not otherwise be within the District's financial capability should such projects have to be funded through collections or charges

BOA Contract No.

009156B0119

during any one year period. It is specifically provided that these funds may be utilized for Reclamation or other cost-share assistance that may be available to the District for water conservation activities.

2. Continue, when permitted, the practice of seasoning canals with stream flows or flood waters to reduce canal losses and control the growth of vegetation. Diversion of natural flows or flood waters to season canals shall not be initiated without the concurrence of the Contracting Officer, shall not exceed 140 acre-feet (average diversion rate of 10 cubic feet per second) in any one 7 day period, and may not be permitted during those times that the resulting reduction in natural flows would negatively impact the storage of water in downstream reservoirs.
3. Continue the established practice of providing assistance to irrigators who upgrade on-farm irrigation facilities by improving turnout locations, installing meters, assisting with buried pipe projects to allow the use of gated pipe or center pivots, and implementation of other new technology.
4. Continue to work with Reclamation on evaluating computer software and other new technology that shall improve water scheduling and accounting.

The District also agrees to: continue and/or improve its existing policies and practices that further the goals of water conservation; provide educational opportunities for District employees, such as canal operations training, water scheduling, water use seminars, etc.; and work with irrigators through educational type demonstrations or projects that measure on-farm efficiencies and crop water requirements in terms of the type of irrigation methods employed by individual irrigators.

The District further agrees to provide for proper accounting for all water deliveries and operational waste within five years of the date of this Plan. Water delivery and operational waste accounting records shall be provided to the United States on or before November 1 of each year. Prior to March 1 of each year, the District and the Contracting Officer's representative shall meet to assess the past year's water supply and delivery records and accounting, and to evaluate the upcoming irrigation season. Through the use of these records and other available data, the Contracting Officer shall assess the delivery efficiency and on-farm efficiency improvements resulting from the District's implementation of water conservation commitments. The improvements shall be measured against pre-Plan water use data. On that basis, it is the general goal of

the District to increase the delivery efficiency of the District by a total of 4 percent and on-farm efficiencies by a total of 5 percent. If the "improvements" are not expected to result in the individual or cumulative increase in efficiencies during the first ten year period of this Plan as determined by the Contracting Officer, additional water conservation measures shall be identified, by mutual agreement of the parties, to be undertaken to ensure the increased efficiencies are realized during the succeeding five year period.

Prior to July 1 of each year, the District shall provide the Contracting Officer an annual report of water conservation activities/accomplishments for the prior year, and a statement of water conservation funds collected, expended, and water conservation fund balance as of the end of the prior calendar year.

ENVIRONMENTAL MEASURES:

The District agrees to:

1. Install or create better screening devices to prevent the passage of fish, crayfish, etc., into turnouts and lateral systems.
2. Establish policies to preserve lake levels.

In addition to accepting the changes in operation the District is willing to cooperate with Reclamation and others in improving fish and wildlife habitat and recreational access at Keith Sebellus Lake. If requested, the District shall annually furnish 7 man-days of labor at Keith Sebellus Lake provided the work is coordinated through Reclamation and scheduled during the non-irrigation season at least one month in advance. In lieu of the man-days of labor, the district shall furnish a district-owned machine and operator for 3 days. It is further provided that the District, if requested, may agree to perform more man-days and/or more machine and operator days during one calendar year than the annual commitment, and that any man-days and/or machine and operator days furnished in excess of the annual commitment shall apply as a credit to the succeeding years' commitment(s).

Reclamation is committed to determine the significance of selenium concentration levels for fish and wildlife resources in the Republican River Basin. This commitment by Reclamation shall be implemented through an adaptive management process as outlined in the Record of Decision for the Final Environmental Impact Statement, Long-Term Water Supply Contract Renewals, Republican River Basin, Kansas and Nebraska

dated July 22, 2000. The adaptive management process includes, but is not limited to: identification and selection of objectives, implementation and monitoring of response, and assessment of accomplishment that can conclude or refine management actions. The District agrees to cooperate with the United States in implementation of the adaptive management plan which could include, but is not limited to, maintenance of the drains to allow free flow/discharge of drainage water to the stream so as to prevent ponding of water and monitoring the water quality of the project drains.

Prior to July 1 of each year, the District shall provide the United States an annual report of environmental activities/accomplishments for the prior year.

THE UNITED STATES OF AMERICA

By *Paul R. Eke* 7-25-2000
Area Manager Date

ALMENA IRRIGATION DISTRICT NO. 5

By *Robert M. Vetter* 7-25-2000
President Date

ATTEST:

Norman L. Heh
Secretary

Evaluation Criterion II

Almena Irrigation District

Post Office Box 275

Almena KS. 67622

Nexus to Reclamation Project G

The Almena Irrigation District No. 5 is part of Reclamations, Pick Sloan Missouri Basin program located

Along Prairie Dog Creek in Norton and Phillips Counties Kansas. The District signed a new repayment contract with the United States effective July 25, 2000. The contract includes the District's operating plan between the United States BOR and the District.

The District contract number with the Bureau of Reclamation is **009D6B0119**.

Evaluation Criterion II

Almena Irrigation District No. 5

Post Office Box 275

Almena KS. 67622

Additional Non Federal Funding H

The Almena, Irrigation District is proposing to pay 52.5 % of the Non-Federal-Funding
Reclamation 47.5%

I 2.2.5 Project Budget Funding Plan

Almena Irrigation District

Post Office Box 275

Almena, Kansas 67622

Almena Irrigation District has funding capability of \$225,000.00

Project funding other than the applicant is Terry Nelson in the amount of \$85,000.00 secured by promissory note.

Fund will be available as of the date of Awards notification to AID.

No time constraints on any of the funds.

Almena Irrigation District funds will come from water conservation funds and other reserve funds.

Almena Irrigation District is depending on securing BOR-DO-21-F001 funding for 47.5% of the project cost without participation from the Bureau of Reclamation AID will not be able to implement our water saving opportunity.

The total cost for the Almena South Canal system plus 5% contingency added. \$478,620.45

Cost to be reimbursed with requested Federal Funding @ 47.5% \$227,344.71

Costs to be paid by applicant @ 52.5% \$251,275.74

Total Project Cost \$ 478,620.45

Almena Irrigation District does not have the equipment or the man power to implement this project.

The District requested project construction bids from two different companies. Central Valley Irrigation bid was \$420,754.25 and Holdrege Irrigations bid \$412,142.78. Holdrege Irrigation did not include the installation and labor for the 600 feet of 24 inch pipe which would be significant. Therefore Almena Irrigation District Board of Directors select Central Valley Irrigations bid of \$420,754.25 for the South Canal Project.

Central Valley construction costs-----	\$ 420,754.00
Prairie Land Electric construction cost-----	\$ 23,675.00
Whitney Construction site prep-----	\$ 11,400.00

Contingency of 5%	-----	\$ 22,791.45
Total Project cost	-----	\$ 478,620.45

Letter of Financial Commitment

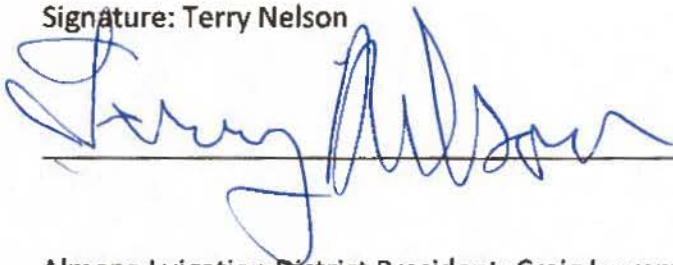
Terry Nelson
1304 West Fox Rd.
Long Island, Kansas
67647

I Terry Nelson have offered to help fund the Almena Irrigation District's south canal conversion from open canals to buried pipe and pump stations along Prairie Dog Creek.

I agree to commit \$85,000.00 dollars if the District's grant proposal for BOR-DO-21-F001 is approved by Reclamation.

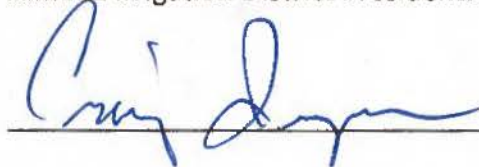
Funds will be available within fourteen days at the request of the District, when supplies are ordered.

Signature: Terry Nelson



Date 9-7-2020

Almena Irrigation District President: Craig Ingram



Date 9-7-2020

Table 2.—Sample Budget Proposal Format

BUDGET ITEM DESCRIPTION	COMPUTATION		Quantity Type	TOTAL COST
	\$/Unit	Quantity		
Salaries and Wages				
Employee 1				\$
Employee 2				\$
Employee 3				\$
Fringe Benefits				
Full-Time Employees				\$
Part-Time Employees				\$
Travel				
Trip 1				\$
Trip 2				\$
Trip 3				\$
Equipment				
Item A				\$
Item B				\$
Item C				\$
Supplies and Materials				
Item A				\$
Item B				\$
Contractual/Construction				
Contractor A	11,400.00			\$
Contractor B	420,754.00			\$
	23,675.00			\$
Third-Party Contributions				
Contributor A				\$
Contributor B				\$
Other				
Other 5% Contingency	22,791.45			\$
TOTAL DIRECT COSTS				\$
Indirect Costs				
Type of rate	percentage	\$base		\$
TOTAL ESTIMATED PROJECT COSTS				\$

Budget Narrative

Submission of a budget narrative is mandatory. An award will not be made to any applicant who fails to fully disclose this information. The budget narrative provides a discussion of, or explanation for, items included in the budget

Whitney Construction & Farms, Inc.

9499 RD E3
 Norton, KS,67654

Estimate

DATE	ESTIMATE #
8/22/2020	151

NAME / ADDRESS
ALMENA IRRIGATION DIST 622 MAIN STREET ALMENA,KS 67622

			PROJECT
DESCRIPTION	QTY	COST	TOTAL
BID FOR PUMP STATIONS DIRT WORK ONLY			
TWO STATIONS ON RD 1500	2	700.00	1,400.00
ONE STATION ON RD 1600	1	2,500.00	2,500.00
ONE STATION ON E 13	1	1,500.00	1,500.00
ONE STATION ON E 12	1	2,000.00	2,000.00
ONE STATION ON RD H	1	1,500.00	1,500.00
TURN OUT ON NORTH CANAL TO PRAIRIE DOG DIRT WORK ONLY	1	1,500.00	1,500.00
		TOTAL	\$10,400.00

Whitney Construction & Farms, Inc.

9499 RD E3
Norton, KS,67654

Estimate

DATE	ESTIMATE #
8/25/2020	152

NAME / ADDRESS
ALMENA IRRIGATION DIST 622 MAIN STREET ALMENA,KS 67622

			PROJECT
DESCRIPTION	QTY	COST	TOTAL
BID TO REMOVE TURNOUT AND MOVE	1	1,000.00	1,000.00
THANK YOU		TOTAL	\$1,000.00

Environmental and Culture Resources Compliance

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

Almena Irrigation District agrees to comply with the NEPA before any ground-disturbing activity begins. Comply with all applicable state, Federal and local environmental, cultural, and paleontological resource protection laws and regulations required. This may include, the Clean Water Act, The Endangered Species Act, National Historic Preservation Act, consultation with tribes, State Historic Preservation Office.

K Required Approvals and Permits

Almena Irrigation District No.5

Post Office Box 275

Almena, Kansas 67622

Almena Irrigation District will adhere to Federal, state, territorial, tribal, and local laws, regulations and codes, as applicable, and will obtain approvals from site owner.

L Letters of Support

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

N.C.C.F



nortoncountycommunityfoundation

August 17, 2020

Bureau of Reclamation
1706 West Third
McCook, NE 69001

Bureau of Reclamation:

The Norton County Community Foundation is a proud partner with the Kansas Department of Wildlife, Parks & Tourism and the Almena Irrigation District in a project we call "Secure Sebelius Lake." Each year, we fundraise and raise local awareness for a project that retains both a water level and a quality of life in our community. Funds for an updated water distribution method for the Almena Irrigation District would create opportunities and save resources in our county and region.

Since the NCCF began this partnership with KDWPT in 2017, it has been made very clear that the Almena Irrigation District would greatly benefit from an upgraded distribution method from the Sebelius Reservoir to their irrigation wells. The 172,300 recreational users of the Sebelius Reservoir on the 18-county region in Northwest Kansas is estimated to be \$5,173,000 annually, per a report from the Docking Institute of Public Affairs in 2018. As good stewards of our precious resources, our local farmers have been methodical and diligent in their quest for an improved and attainable water distribution process, ensuring we maintain high lake levels to continue adding to the economic impact in our area. We hope your grant funds will allow them to put their plan into action.

Thank you for your interest in the Almena Irrigation District's request for grant funding and I look forward to seeing Sebelius Reservoir and the Prairie Dog State Park have an even greater

impact on our county.

Sincerely,

Tara Vance
Executive Director
Norton County Community Foundation
112 S Kansas Ave, Suite 308
Norton, KS 67654

tara@nortonccf.org

785.874.8115

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

9/3/2020

To whom it may concern,

On behalf of the Board of Directors of the Almena Irrigation District in Kansas, I would like to voice our support for Almena Irrigation District (AID) in their application for a grant to convert open canals to buried pipe and pump stations along Prairie Dog Creek.

Water is our most precious resource and we have to do everything in this Boards power to conserve that resource. (AID) has always been in a battle with a limited resource of water, the District has discovered a way to deliver water in a very efficient way and we hope you will give consideration for our grant request.

AID works closely with Kansas Division of Water Resources to insure all Kansas Nebraska compact compliance is met.

AID will divert a minimal amount of water on top of the already flowing water to make efficient deliveries to District Members property.

Thank you for your consideration for BOR-DO-21-F001 grant proposal.

AID President

Chris Ingersoll
AID. President

RE: Support for Almena Irrigation District Proposal

The Kansas Department of Agriculture Division of Water Resources ("KDA-DWR") administers over 35,000 active water rights across the state of Kansas. Among our duties is to advocate for best practices in water management, increases in efficiency and reduction of waste.

KDW-DWR supports the project proposed by the Almena Irrigation District which would convert some ten miles of open canals to buried pipe. We have seen that open canals can be difficult and expensive to maintain. Water that seeps through the canal walls is lost to irrigation and can in some cases raise the nearby water table in unhelpful ways.

We believe that Almena Irrigation District's conversion project will save a substantial amount of water by increasing the efficiency and precision of its water deliveries. We have seen the success of similar efforts in the Kansas Bostwick Irrigation District in the Lower Republican River Basin where they have buried several miles of open canal which has improved their operations and reduced their maintenance costs and efforts.

Sincerely,



Christopher W. Beightel, PE
Acting Chief Engineer
Kansas Department of Agriculture
Division of Water Resources

Almena Irrigation: Official Resolutions

Almena Irrigation District No.5

Post Office Box 275

Almena, Kansas 67622

Almena Irrigation District No. 5

Resolution

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

8/16/2020

Almena Irrigation District No. 5 is applying for grant funding opportunity BOR-DO-21-F001 for the conversion of the Districts south canal consisting of 1,520 acres situated in Norton and Phillips Counties Kansas.

The District is converting open canals and laterals to Prairie Dog Creek water delivery system through screened pump stations and underground pipe. The District has been very successful in delivering water for the last three years on 1,026 acres on the lower end of the AID main canal system.

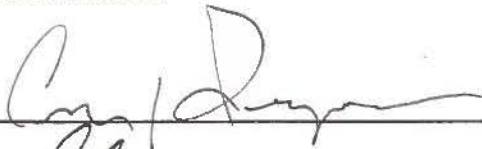
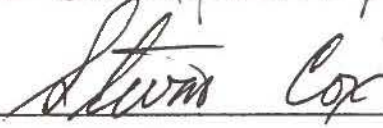
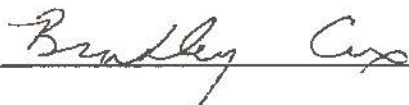
This will be an expensive project and the District is requesting to use our funds in the Water Supply Reserve fund, and the Distribution Works Reserve fund. The two funds total \$92,647.87.

The Almena Irrigation District Board of Directors voted unanimously July 22, 2020 to apply for Grant Funding opportunity BOR-DO-F001.

The Board of Directors voted unanimously on July 22, 2020 to request from BOR the use of our Water Supply Reserve fund and our Distribution Works Reserve fund. The District will continue to rebuild the funds with BOR contractual obligations.

Thank you for your consideration.

Board of Directors

 _____	<u>8-20-20</u>
 _____	<u>8-20-20</u>
 _____	<u>8-20-20</u>

Almena Irrigation District No. 5

Resolution

Almena Irrigation District No. 5

Post Office Box 275

Almena, Kansas 67622

The Almena Irrigation District No. 5 supports the proposal for Small Scale Water Efficiency Project BOR-DO-21-F001. On July 22, 2020, the Board of Directors voted unanimously to apply for grant funding for the conversion of the Almena Irrigation District's south canal 1,520 acres from open canals and laterals, to pump stations along Prairie Dog Creek with underground pipe and pump stations to District land owners. The District water deliveries will be much more efficient while reducing operation maintenance and labor.

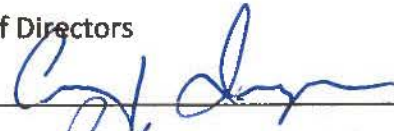
Craig Ingram, President of the Almena Irrigation District has the legal authority to enter into an agreement.

Brad Cox and Steve Cox have reviewed the BOR-DO-21-F001 application and support the application submitted.

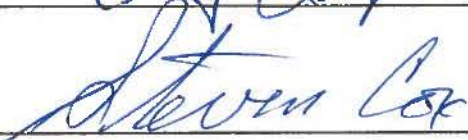
The District Board of Directors has the capability to provide funding with cash and in-kind contributions, third party contributions specified in the funding plan.

The Board of Directors will work with Reclamation to meet established deadlines for entering into this grant.

Board of Directors



9-3-2020



9-3-2020



9-3-2020

M Unique Entity Identifier and System for Award Management

Almena Irrigation District No.5

Post Office Box 275

Almena, Kansas 67622

Almena Irrigation District No. 5
P O Box 275
Almena, Kansas 67622
(785-669-2390)
Email: aidno5@ruraltel.net

Designation of Entity Administrator for Almena Irrigation District No. 5
DUNS#_152087966

The purpose of this notarized letter is to designate Jeanette Harris as Entity Administrator for Almena Irrigation District No. 5. I, Craig Ingram, Board President, hereby confirm that Jeanette Harris is an authorized officer, agent, or representative of Almena Irrigation District No. 5.

This letter will authorize Jeanette Harris to have access to the System for Award Management (SAM). SAM is a computer system managed by the Federal Government, and it is only accessible by individuals who are either authorized to represent a particular entity, or by individuals representing themselves. Accessing or using SAM, or information contained therein, for any unauthorized or illegal purposes, may have civil and criminal penalties, and may negatively impact the status of the SAM registration maintained on this entity. I, the below-signed, attest to the accuracy of all information contained in this letter.

For the purpose of registering with the United States Federal Government through the online System for Award Management (SAM), I do not authorize any 3rd party to act on behalf of Almena Irrigation District No. 5.

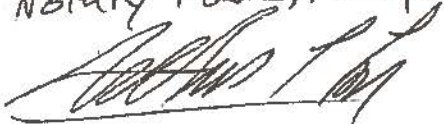


Craig Ingram
Board President
Almena Irrigation District No. 5

8-21-2020

Date

Notary Public, Phillips County, KS

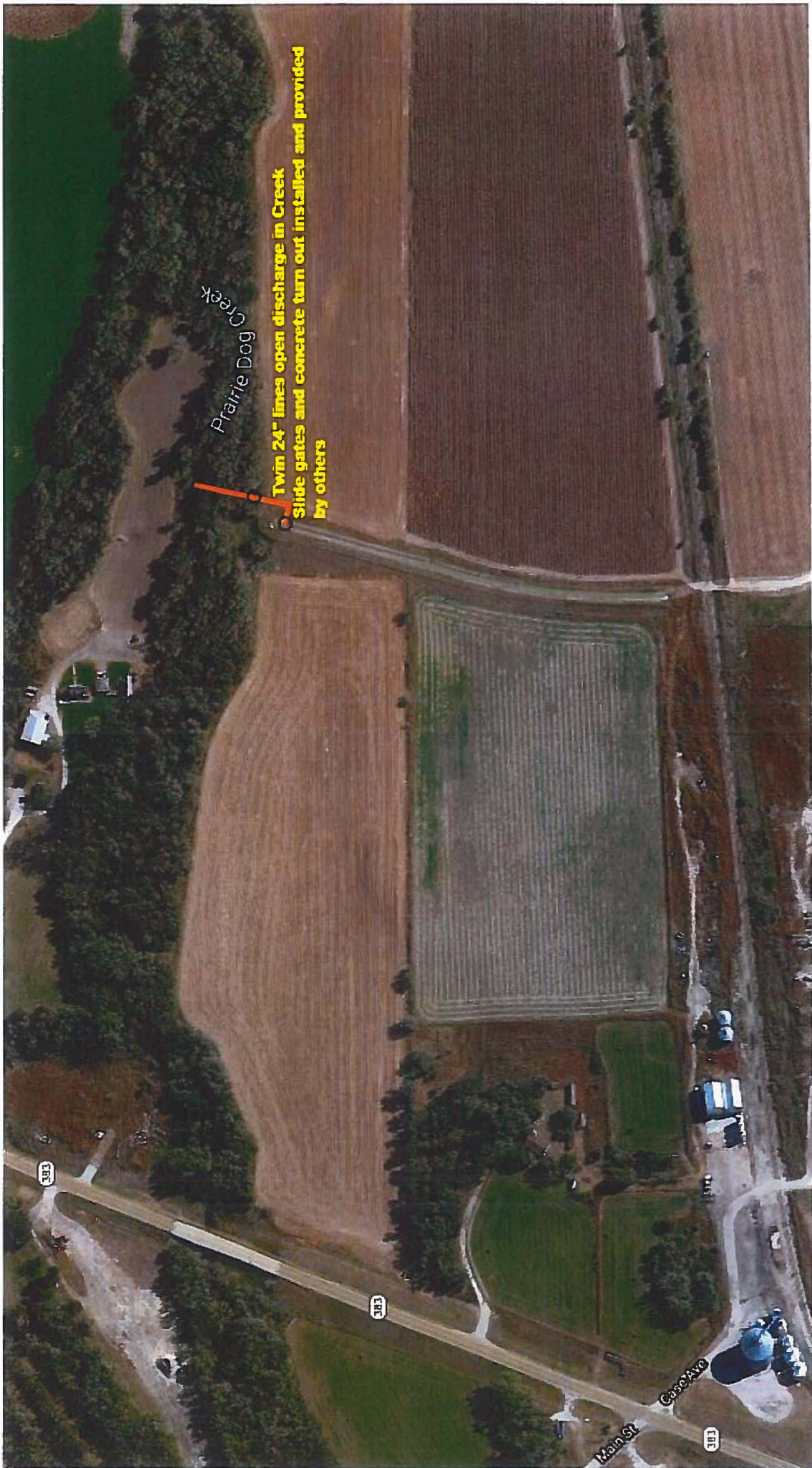


8/24/20



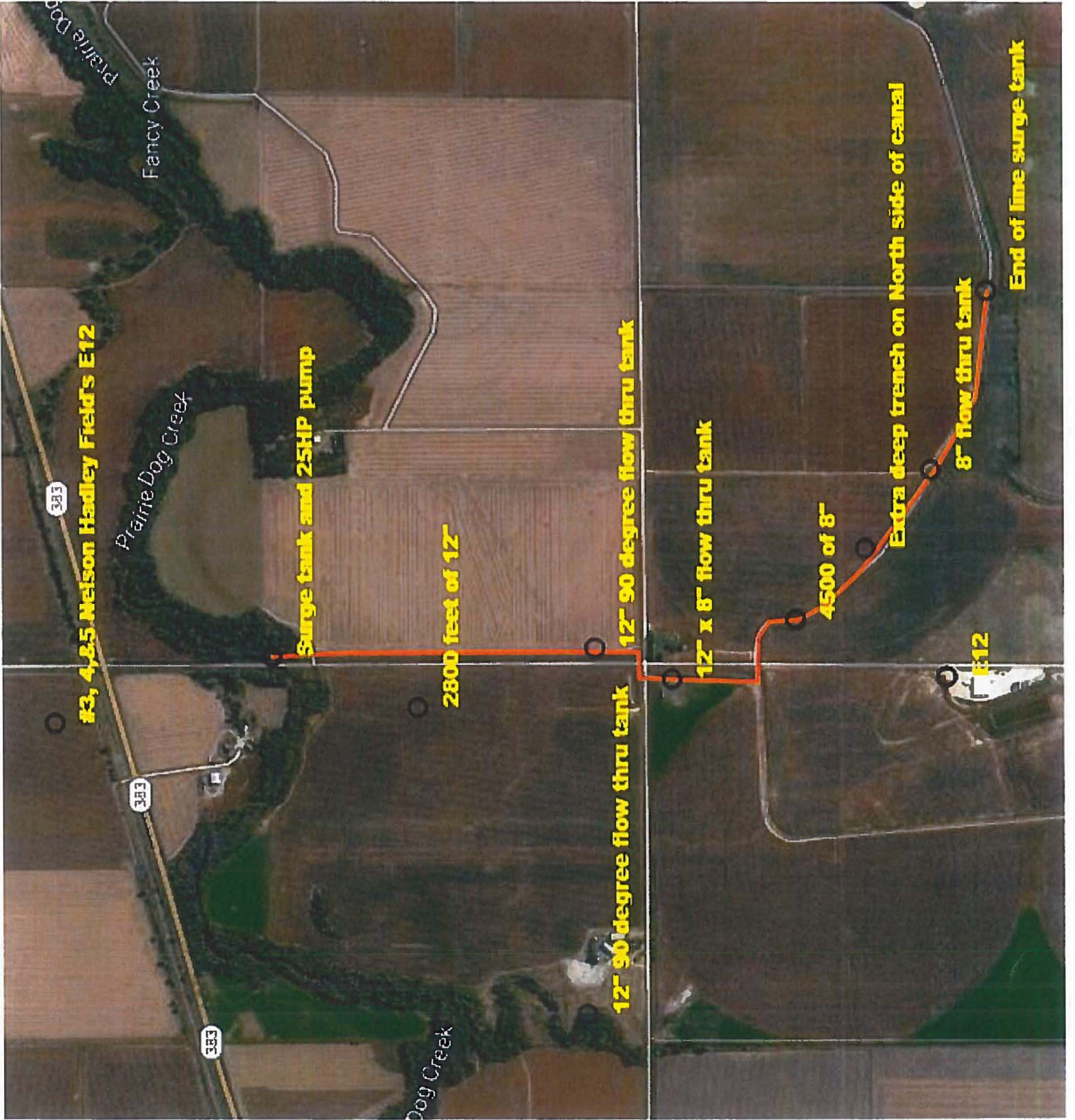
APPENDIX A

Project Location Maps



Prairie Dog Creek

Twin 24" lines open discharge in Creek
Slide gates and concrete turn out installed and provided
by others





1625 E Hwy 6 / PO Box 593
Holdrege, NE 68949
Office: (308) 995-6583
Fax: (308) 995-5413

1801 Plum Creek Pkwy / PO Box 1169
Lexington, NE 68850
Office: (308) 324-3434
Fax: (308) 324-3535

3111 Antelope Avenue / PO Box 945
Kearney, NE 68848
Office: (308) 237-2268
Fax: (308) 236-9816

Estimate

Almena Irrigation District
#6 & 7 Dole LLC Poage E13
Almena, KS

September 2, 2020

Phone #

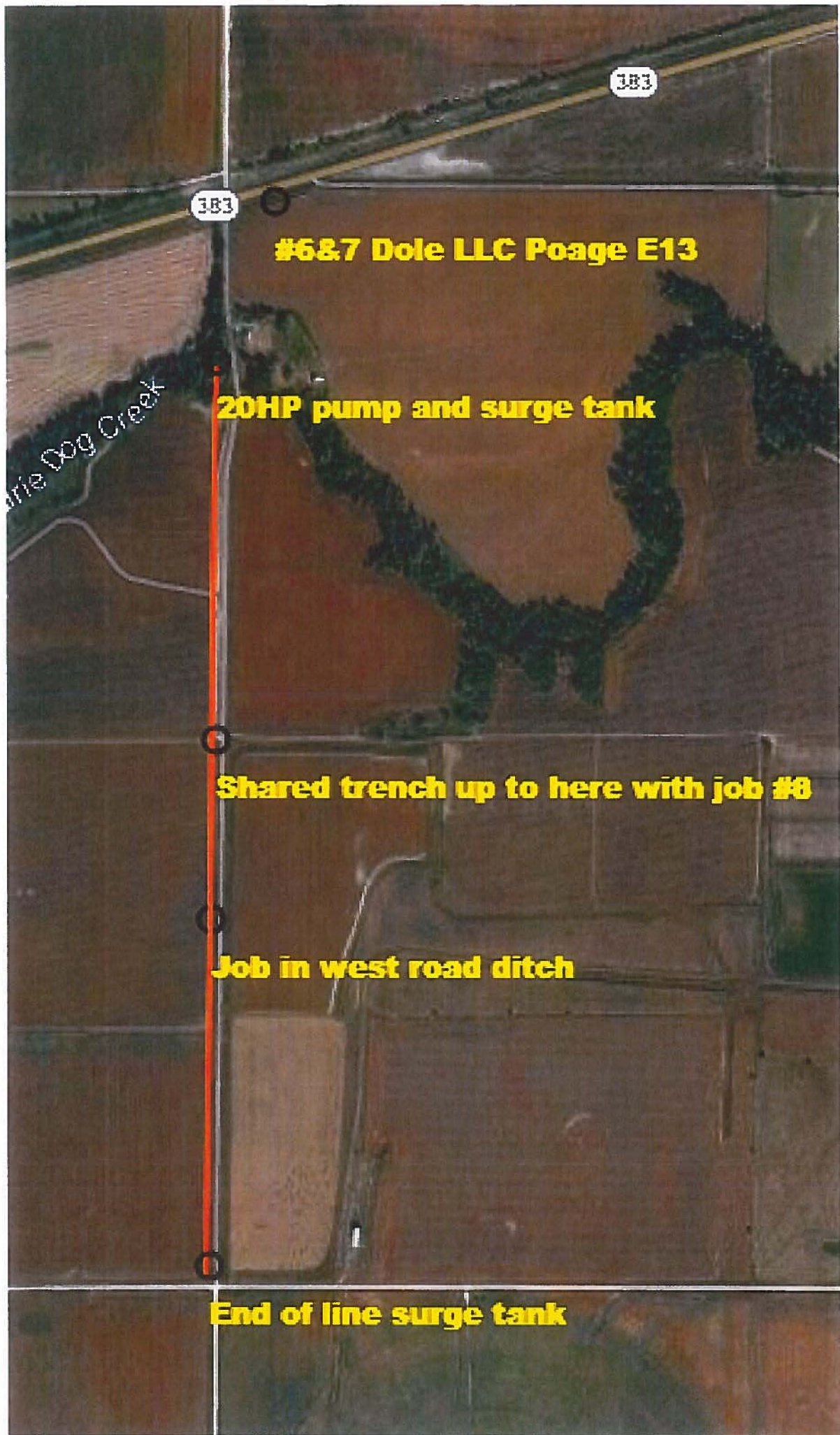
Cellular #

Legal Description

Serial #

Qty.	Description	Price/each	Price
			\$0.00
1	20 HP floater pump	\$9,687.00	\$9,687.00
1	100' 6" hose and fittings	\$1,109.00	\$1,109.00
1	8" meter, vanes, chem valve, flanges grayline valve and pipe	\$3,197.00	\$3,197.00
1	120' cord to 20HP pump	\$340.00	\$340.00
1	8" grayline gear operated valve, flanges, flange adapter installed	\$500.00	\$500.00
1	60 amp disconnect and mast	\$900.00	\$900.00
1	100 foot or less of underground wire installed to pole	\$600.00	\$600.00
1	Size 2 well panel installed	\$1,300.00	\$1,300.00
1	mobilization	\$800.00	\$800.00
4500	feet of 8" pipe trenched in	\$4.50	\$20,250.00
			\$0.00
1	Cross 15" pipe line	\$725.00	\$725.00
1	Manifold to tie pump discharges together at pump site	\$1,320.00	\$1,320.00
1	surge tank at pump	\$600.00	\$600.00
			\$0.00
1	8" surge tank at south end	\$600.00	\$600.00
			\$0.00
			\$0.00
4500	feet of tracer wire	\$0.25	\$1,125.00
			\$0.00
1	Ag Sense that controls pumps and monitors flowmeters	\$1,595.00	\$1,595.00
1	Inlet screen to pump	\$385.00	\$385.00
1	8" meter tube and 8" gray line wheel valve with 10" bell on it	\$2,322.00	\$2,322.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
	Trench in road ditch (road ditch is flat)		\$0.00

TOTAL PRICE: \$47,355.00



Central Valley Irrigation

THE SMART INVESTMENT



1625 E Hwy 6 / PO Box 593
Holdrege, NE 68949
Office: (308) 995-6583
Fax: (308) 995-5413

1801 Plum Creek Pkwy / PO Box 1169
Lexington, NE 68850
Office: (308) 324-3434
Fax: (308) 324-3535

3111 Antelope Avenue / PO Box 945
Kearney, NE 68848
Office: (308) 237-2268
Fax: (308) 236-9816

Estimate

Almena Irrigation District

September 3, 2020

#8 Dole E13

Almena, KS

Legal Description

Phone #

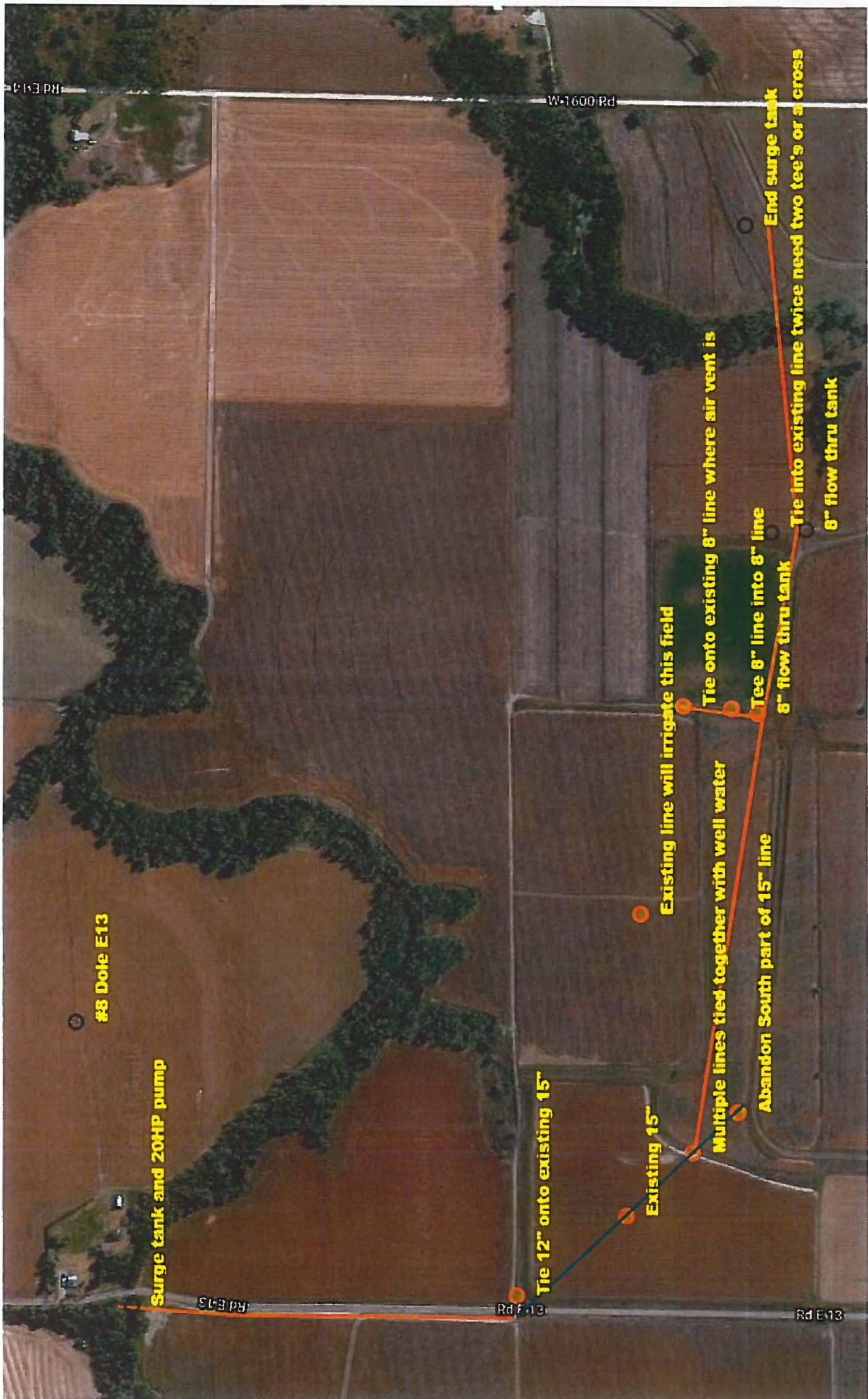
Cellular #

Serial #

Qty.	Description	Price/each	Price
			\$0.00
1	20 HP floater pump	\$9,687.00	\$9,687.00
1	100' 8" hose and fittings	\$1,935.00	\$1,935.00
1	8" meter, vanes, chem valve, flanges grayline valve and pipe	\$3,197.00	\$3,197.00
1	120' cord to 20HP pump	\$340.00	\$340.00
3	8" grayline gear operated valve, flanges, flange adapter installed	\$500.00	\$1,500.00
1	60 amp disconnect and mast	\$900.00	\$900.00
1	100 foot or less of underground wire installed to pole	\$600.00	\$600.00
1	Size 2 well panel installed	\$1,300.00	\$1,300.00
1	mobilization	\$1,150.00	\$1,150.00
4500	feet of 8" pipe trenched in	\$4.50	\$20,250.00
1750	feet of 12" pipe trenched in	\$8.25	\$14,437.50
1	8" surge tank at west end of 8" line	\$600.00	\$600.00
1	Tee into existing 15" pipeline with new 12" pipe	\$2,340.00	\$2,340.00
1	15" surge tank at cluster now SE end of 15" line	\$1,050.00	\$1,050.00
2	8" flow thru tanks	\$700.00	\$1,400.00
1	8" tank at south end of 8" run that ties to 12"	\$600.00	\$600.00
3	Tee 8" line into 8" line	\$685.00	\$2,055.00
			\$0.00
6250	feet of tracer wire	\$0.25	\$1,562.50
1	8" meter tube, 8" gray line wheel valve & chem valve at tank cluster	\$2,762.00	\$2,762.00
1	Ag Sense that controls pumps & monitors flowmeters included on #6		\$0.00
1	Inlet screen to pump	\$385.00	\$385.00
1	12" surge tank at pump site	\$825.00	\$825.00
1	manifold tying pumps together at pump site included on #6&7		\$0.00
1	various fittings, backhoe, extra labor	\$1,975.00	\$1,975.00
			\$0.00
			\$0.00
	Trench in road ditch (road ditch is flat)		\$0.00

TOTAL PRICE: \$70,851.00

37





Rd G

Rd G

Rd E-14

#9 Kim Cole E14

3200 feet of 8" pipe

Flow thru tank connecting to 10" line

Road Crossing with 2 pipe lines in it

Surge tank and 10HP pump
Three lines thru here in trench provided by others
this is middle of three lines

Prairie Dog Creek

1625 E Hwy 6 / PO Box 593
Holdrege, NE 68949
Office: (308) 995-6583
Fax: (308) 995-5413

1801 Plum Creek Pkwy / PO Box 1169
Lexington, NE 68850
Office: (308) 324-3434
Fax: (308) 324-3535

3111 Antelope Avenue / PO Box 945
Kearney, NE 68848
Office: (308) 237-2268
Fax: (308) 236-9816

Estimate

Almena Irrigation District
#10 Duane Sell E14
Almena, KS
Phone #

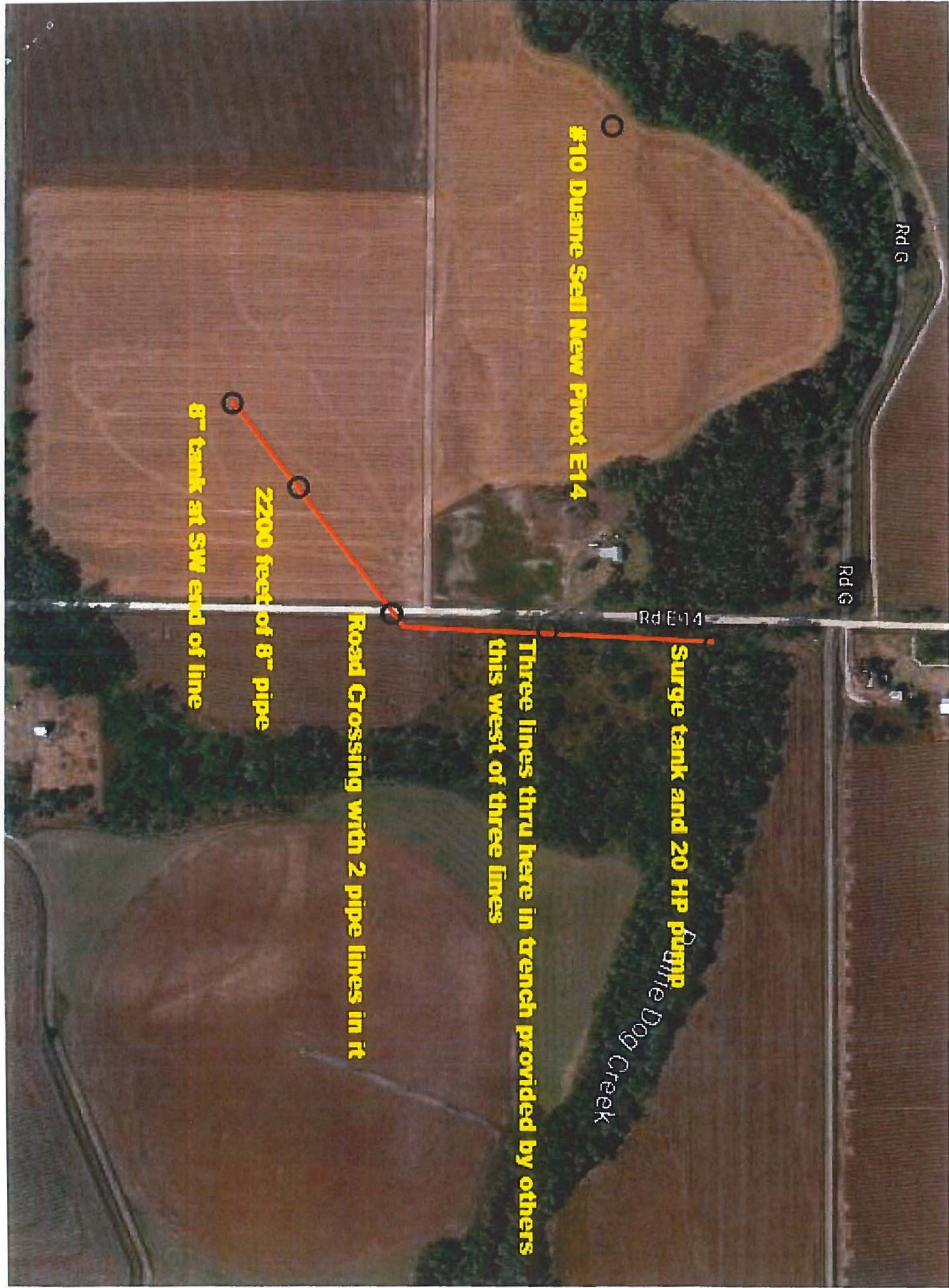
September 2, 2020

Cellular #

Legal Description
Serial #

Qty.	Description	Price/each	Price
			\$0.00
1	20 HP floater pump	\$9,687.00	\$9,687.00
1	100' 6" hose and fittings	\$1,109.00	\$1,109.00
1	6" meter, vanes, chem valve, flanges grayline valve and pipe	\$2,513.00	\$2,513.00
1	120' cord to 20HP pump	\$340.00	\$340.00
1	8" grayline gear operated valve, flanges, flange adapter installed	\$500.00	\$500.00
1	disconnect and mast	\$900.00	\$900.00
1	100 foot or less of underground wire installed to pole	\$600.00	\$600.00
1	Size 2 well panel installed	\$1,300.00	\$1,300.00
1	mobilization	\$800.00	\$800.00
2200	feet of 8" pipe trenched in	\$4.50	\$9,900.00
2200	feet of tracer wire	\$0.25	\$550.00
1	road crossing included in #9		\$0.00
1	8" tank at pump site	\$600.00	\$600.00
1	surge tank at SW end of line	\$600.00	\$600.00
			\$0.00
1	8" surge tank at south end	\$600.00	\$600.00
1	Rotophase installed to start and run pump	\$5,585.00	\$5,585.00
			\$0.00
			\$0.00
			\$0.00
1	Ag Sense that controls pumps & monitors flowmeters included in #9		\$0.00
1	Inlet screen to pump	\$385.00	\$385.00
1	Pierce Screener and flush valve installed	\$2,150.00	\$2,150.00
			\$0.00
			\$0.00
	Trench in trees provided by others but CVI installs pipe		\$0.00
			\$0.00
			\$0.00

TOTAL PRICE: \$38,119.00



#11 Patricia Bernard E14

Use pump from #9 Kim Cole to supply water to this line

Prairie Dog Creek

East of three lines in common trench

End surge tank at unknown location

Rd G

Rd E-14

W-160



#12 Arnold Graham W1500RD

25HP and surge tank

W Granite Rd

W Gran

W 1500 Rd

W 1500 Rd

W 1500 Rd

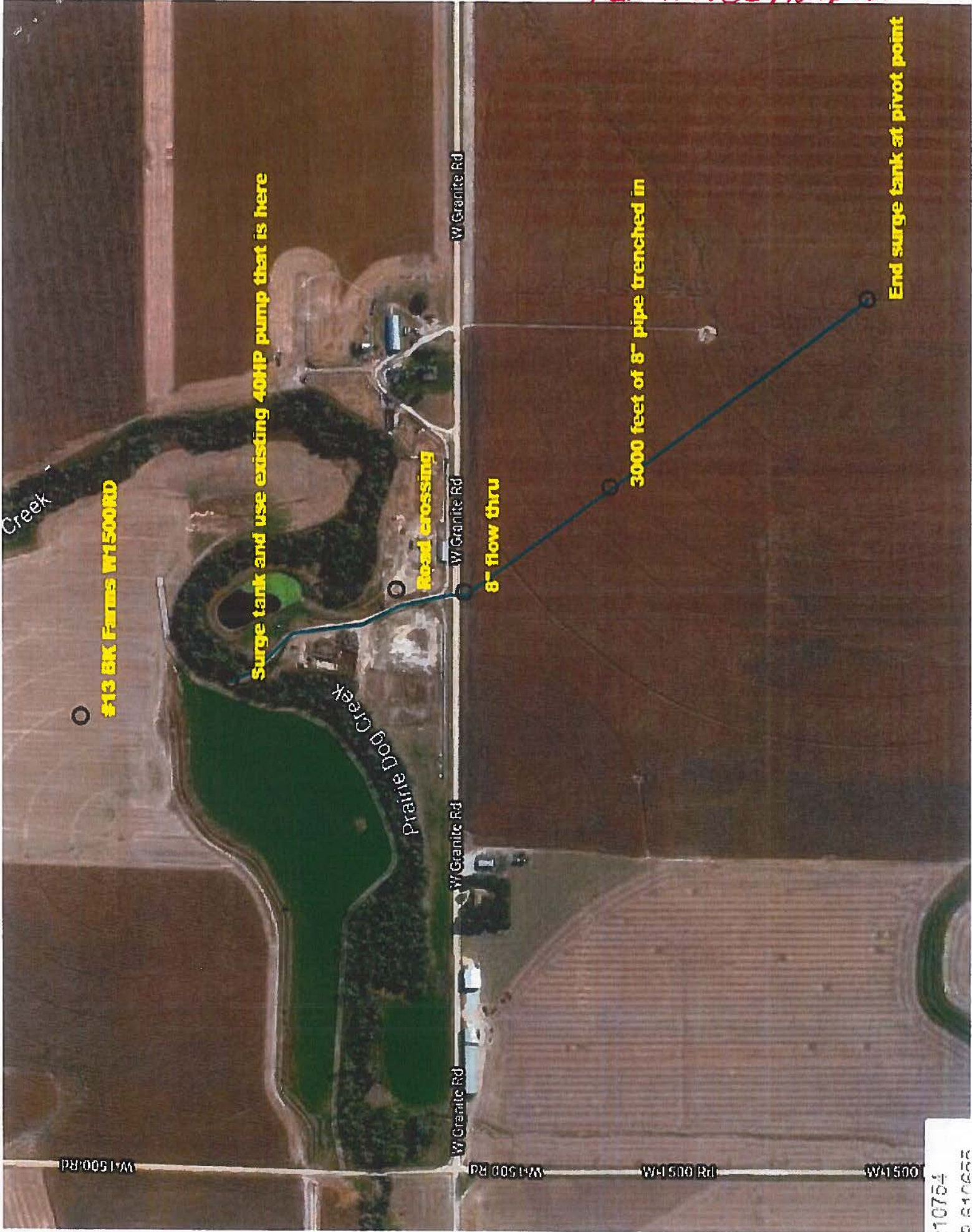
W

2325 feet of 8" pipe

End Surge tank at unknown location

TRACERWORK

CHEM VALUE @ PIVOT POINT



#13 BK Farms W1500RD

Surge tank and use existing 40HP pump that is here

Road crossing

8" flow thru

3000 feet of 8" pipe trenched in

End surge tank at pivot point

W Granite Rd

W Granite Rd

W Granite Rd

W Granite Rd

W1500 RD

W1500 RD

W1500 Rd

W1500

110754
0.240528

48