

Clay County, MO
MNAC Onsite Wastewater Treatment and Conveyance

ADDENDUM NO. 1
INVITATION FOR BID NO. 141-18
January 10, 2019

This addendum adds, changes, or clarifies the following:

ADDENDA TO THE BIDDING AND CONTRACT DOCUMENTS:

1. REVISE ON INVITATION FOR BID SHEET 1 ISSUE DATE TO 01-10-2019.
2. REVISE ON INVITATION FOR BID SHEET 1 THE BID DUE SHALL BE JANUARY 31, 2019.
3. REVISE ON INVITATION FOR BID SHEET 1, "MANDATORY PRE-BID CONFERENCE" TO "OPTIONAL PRE-BID CONFERENCE."
4. REVISE ON INVITATION FOR BID SHEET 4, "ALL QUESTIONS AND ISSUES SHOULD BE SUBMITTED NO LATER THAN JANUARY 24, 2019 AT 12:00 PM."
5. REVISE ON INVITATION FOR BID SHEET 16 BIDS DUE ON 01-31-2019.
6. ADD THE ATTACHED PRE-BID MEETING SUMMARY AND SIGN-IN SHEET FOR THE PRE-BID CONFERENCE.

There are no further changes to BID NO. IFB 141-18

Acknowledge receipt and acceptance of this addendum to Jacob Cox of GBA by email confirmation at jcox@gbateam.com.

Jacob Cox, GBA
jcox@gbateam.com

Attachments:
Revised Invitation for Bid
Pre-bid meeting summary
Pre-bid meeting sign-in sheet



**CLAY COUNTY
PURCHASING DEPARTMENT
INVITATION FOR BID (IFB)**

**IFB No.: 141-18
TITLE: MNAC ONSITE WASTEWATER TREATMENT
AND CONVEYANCE
ISSUE DATE: 01-10-2019**

**PURCHASING STAFF TITLE: LESLIE DEGROOT
PHONE No.: 816-407-3634
E-MAIL: LDEGROOT@CLAYCOUNTYMO.GOV**

**BID RESPONSES MUST BE RECEIVED BY NO LATER THAN (“CLOSE/RETURN DATE and TIME”):
JANUARY 31, 2019 AT 5:00 PM CENTRAL TIME**

SUBMITTAL INSTRUCTIONS: In effort to support the County’s initiative for conservation, it is preferred that bids be submitted via www.PublicPurchase.com. Sealed bids may be delivered to the Clay County Purchasing Office prior to the return date and time. Print the Sealed Bid Label found in Attachment 1 or type **IFB Number, IFB Title and Return Due Date** on the lower left hand corner of the envelope or package. In order for a bid to be considered complete, the Clay County document must be completed in its entirety. The cover page **MUST** be completed, all pages **MUST** be initialed and the Terms and Conditions Acknowledgement Form **MUST** be signed.

OPTIONAL PRE-BID CONFERENCE: JANUARY 3, 2019 at 10:00 AM at MNAC AIRPORT

**RETURN BID TO: CLAY COUNTY ~ PURCHASING DEPARTMENT
ATTN: LESLIE DEGROOT
1 COURTHOUSE SQUARE, 3RD FLOOR
LIBERTY, MO 64068**

**CONTRACT PERIOD: DATE OF AWARD THROUGH 90 DAYS.
DELIVER SUPPLIES/SERVICES/INVOICES FOB (Free On Board) DESTINATION TO THE
FOLLOWING ADDRESS:**

**PUBLIC SERVICES
MIDWEST NATIONAL AIR CENTER (MNAC)
13106 RHODUS RD
EXCELSIOR SPRINGS, MO 64024**

By signing this IFB cover page, the Vendor shall hereby declare understanding, agreement and certification of compliance to provide the items and/or services, at the prices quoted, in accordance with all requirements and specifications contained herein and the Contract Terms and Conditions. The Vendor shall further agree that the language of this IFB shall govern in the event of a conflict with their bid. In addition, the Vendor shall further agree that upon receipt of an authorized purchase order from Clay County or when an Official Action is signed and issued by an authorized official of Clay County, a binding contract shall exist between the Vendor and Clay County.

SIGNATURE REQUIRED

Company Name		Authorized Representative (Print)		Title	
Street Address		Authorized Signature			
City/State/ZIP	County	Date	Company Tax ID No.		
Telephone No.	Facsimile No.	E-mail			

Corporation Individual State/Local Government Partnership Sole Proprietor IRS Tax-Exempt

Vendor Tax Filing Type With IRS (Check One)

1. INTRODUCTION AND GENERAL INFORMATION

This section of the IFB includes a brief introduction and background information about the intended acquisition for which the requirements herein are written. The contents of this section are intended for informational purposes and do not require a response.

Submittal instructions and Determination of Award information can be found on our website by clicking the following link <https://www.claycountymo.gov/bids/current>

1.1 Purpose:

1.1.1 This document constitutes a request for competitive, sealed bids from prospective Vendors for the sewer improvements to the Midwest National Air Center for Public Services in accordance with the requirements and provisions stated herein.

1.1.2 This document is divided into the following parts:

- Section 1: Introduction and General Information
- Section 2: Scope of Work
- Section 3: Contractual Terms and Conditions Acknowledgement Form
- Section 4: Affidavit of Work Authorization and Documentation
 - Exhibit A: Pricing
 - Exhibit B: Experience and Expertise
 - Exhibit D: Miscellaneous Information

Attachment 1: Sealed Bid Label

1.2 Questions:

1.2.1 Questions and issues relating to the IFB must be submitted via the www.PublicPurchase.com website or e-mailed to Purchasing@ClayCountyMo.gov

1.2.2 **All questions and issues should be submitted no later than January 24, 2019 at 12:00 pm.** If not received prior to the aforementioned date, the Clay County Purchasing Manager may not be able to fully research and consider the respective questions or issues.

1.3 Background Information:

The Midwest National Air Center (MNAC) Onsite Wastewater Treatment and Conveyance project is a solution to the issue of limited sewage treatment capability of the current system. The current holding tank has limited capacity and will not allow for any expansion of the MNAC facilities. George Butler Associates, Inc. (GBA) conducted a study to determine the current and future needs of the MNAC. This study is available upon request. In addition, soil testing information is also available upon request.

1.3.1 A. Prevailing Wage:

The contractor shall comply with Section 290.250 RSMo by paying, to all personnel employed for applicable services actually provided under the contract, not less than the prevailing hourly rate of wages as determined by the Department of Labor and Industrial Relations, Division of Labor Standards, specified at the following website: <http://labor.mo.gov/DLS/PrevailingWage>. The contractor must retain payroll records for five (5) years and make those records available for inspection by Clay County or the State of Missouri Department of Labor and Industrial Relations. The contractor must submit monthly certification of payroll records to the Clay County entity. The prevailing wage rates incorporated as a part of this

Vendor's Initials: _____

document by the referenced annual wage order(s) shall remain in effect for the duration of the contract period stated on page 1.

A determination by the State of Missouri Department of Labor and Industrial Relations of debarment for violation of the Prevailing Wage Act shall result in the contractor being automatically deemed non-responsible for the period of debarment without further proceedings by the County.

For each renewal period, if any, exercised by the County, the contractor shall comply with Section 290.250 RSMo by paying, to all personnel employed for applicable services actually provided under the contract, not less than the prevailing hourly rate of wages as determined by the Department of Labor and Industrial Relations, Division of Labor Standards, specified at the above aforementioned website.

The above-stated prevailing wage requirements shall also apply to all subcontractors employed by the contractor to perform services under the contract.

B. Contractor Experience Requirement

The contractor that will complete the work as shown on the plans and described in the specifications shall be a registered septic installer in Clay County, MO. The contractor shall have a minimum of 3 years of experience with installing drip dispersal systems.

- 1.3.2 Although an attempt has been made to provide accurate and up-to-date information, Clay County does not warrant or represent that the background information provided herein reflects all relationships or existing conditions related to this IFB.

1.4 Estimated Quantities:

- 1.4.1 The quantities indicated in this IFB are estimates that pertain to the total aggregate quantities that may be ordered throughout the stated Agreement period. The estimates do not indicate single order amounts unless otherwise stated. Clay County shall not make guarantees about single order quantities or total aggregate order quantities.

- 1.4.2 The County shall not guarantee any minimum or maximum amount of the Vendor's products/services that may be required under the agreement. The Vendor shall provide products/services on an as needed, if needed basis. The County shall not guarantee any usage of the agreement whatsoever.

Vendor's Initials: _____

2. SCOPE OF WORK

This section of the IFB includes requirements as well as desirable attributes and provisions relating specifically to the scope of work requirements of the Clay County Entity. The contents of this section include mandatory requirements that will be required of the successful Vendor and subsequent Vendor. The Vendor is requested to provide responses to the requirements/desired attributes in this section pursuant to the directions identified herein. The Vendor's response, whether responding to a mandatory requirement or a desired attribute, shall be binding in the event the bid is accepted by Clay County. The Vendor must provide all costs necessary to meet the mandatory requirements and the fulfillment of any desirable attributes by the Vendor (if any) in the appropriate sections of Exhibit A, Pricing Pages.

2.1 Specific Requirements:

The Vendor must provide: Site work, material, equipment, and labor associated with the furnishing and installing the following: approximately 6500 LF of 1.50-inch diameter SDR-9 HDPE force main sewer pipe (6015 LF installed by direct bury, 485 LF installed by horizontal directional drilling); approximately 6500 LF of six (6) strand fiber optic cable in 1.25" HDPE conduit to be installed; one (1) BioMicrobics 0.625 Microfast system including electrical controls and necessary valves, fittings, conduit, and wiring necessary to complete the work, install one 1500 gallon two (2) cell concrete structure for BioMicrobics unit, install one (1) forcemain grinder pump including electrical controls and valves, fittings, conduit, and wiring necessary to complete the work, install two (1) 4' dia. Standard Manhole to combine flows from 2-inch forcemain line, 4-inch gravity line, and any other existing lines providing flow into the existing holding tank, install high head turbine dosing pump in 1500 gallon concrete structure; install drip dispersal field including minimum of 6,720 LF of dispersal tubing; minimum area of 12,000 square feet, three (3) air release valve vaults; erosion control, surface restoration, and all other appurtenances necessary to complete the project. Electrical upgrades and modifications as shown in the plan sheets are included in this project. Any substitutions must meet or exceed the specifications contained in this document.

Vendor's Initials: _____

3. AGREEMENT TERMS AND CONDITIONS ACKNOWLEDGEMENT FORM

The undersigned Vendor has read, understood, and accepted the Terms and Conditions as published on the Clay County Official Website located:

[HTTPS://WWW.CLAYCOUNTYMO.GOV/TERMSANDCONDITIONS](https://www.claycountymo.gov/termsandconditions)

All terms and conditions as stated shall be adhered to by Vendor upon acceptance of contract. Vendor enters into this agreement voluntarily, with full knowledge of its effect.

Vendor Signature

Date

Vendor Name

Vendor's Initials: _____

4. AFFIDAVIT OF WORK AUTHORIZATION AND DOCUMENTATION

The Vendor who meets the section 285.525, RSMo (<http://www.moga.mo.gov/statutes/C200-299/2850000525.HTM>), definition of a business entity must understand and agree that it is a mandatory requirement for the Vendor to be enrolled and will continue to participate in the E-Verify federal work authorization program with respect to employees hired after enrollment in the program who are proposed to work in connection with the services related to contract(s) with Clay County for the duration of the contract(s), if awarded in accordance with subsection 2 of Section 285.530, RSMo. The Vendor also affirms that the Vendor does not and will not knowingly employ a person who is an undocumented or unauthorized immigrant worker in connection with the contracted services provided under the contract(s) for the duration of the contract(s), if awarded. By signing the solicitation cover page, the Vendor shall be affirming thereof, the facts stated above are true and correct. The Vendor understands that false statements made in this filing are subject to the penalties provided under section 575.040, RSMo. At any time during the contract, the County shall have the right to request proof of enrollment in the E-Verify federal work authorization program and the Vendor shall comply with such requests.

Authorized Personnel:

The Vendor shall only employ personnel authorized to work in the United States in accordance with applicable federal and state laws. This includes but is not limited to the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA) and INA Section 274A.

If the Vendor is found to be in violation of this requirement or the applicable state, federal and local laws and regulations, and if Clay County has reasonable cause to believe that the Vendor has knowingly employed individuals who are not eligible to work in the United States, the state shall have the right to cancel the contract immediately without penalty or recourse and suspend or debar the Vendor from doing business with Clay County. Clay County may also withhold up to twenty-five percent of the total amount due to the Vendor.

The Vendor shall agree to fully cooperate with any audit or investigation from federal, state, or local law enforcement agencies.

If the Vendor meets the definition of a business entity as defined in section 285.525, RSMo, pertaining to section 285.530, RSMo, the Vendor shall maintain enrollment and participation in the E-Verify federal work authorization program with respect to the employees hired after enrollment in the program who are proposed to work in connection with the contracted services included herein. If the Vendor's business status changes during the life of the contract to become a business entity as defined in section 285.525, RSMo, pertaining to section 285.530, RSMo, then the Vendor shall, prior to the performance of any services as a business entity under the contract:

- 1) Enroll and participate in the E-Verify federal work authorization program with respect to the employees hired after enrollment in the program who are proposed to work in connection with the services required herein; AND
- 2) Provide to the Clay County Purchasing Department the documentation required affirming said company's/individual's enrollment and participation in the E-Verify federal work authorization program; AND
- 3) In accordance with subsection 2 of section 285.530, RSMo, the Vendor should renew their Affidavit of Work Authorization annually. A valid Affidavit of Work Authorization is necessary to award any new contract.

NOTE: E-Verify Documentation proof shall include EITHER the E-Verify Employment Eligibility Verification page OR a page from the E-Verify Memorandum of Understanding (MOU) listing the Vendor's name and the MOU signature page completed and signed, at minimum, by the Vendor and the Department of Homeland Security – Verification Division.

Affidavit of Work Authorization and Documentation - Pursuant to section 285.530, RSMo, if the Vendor meets the section 285.525, RSMo, definition of a "business entity"

((<http://www.moga.mo.gov/mostatutes/stathhtml/28500005301.html?&me=285.530>), the Vendor must affirm the Vendor's enrollment and participation in the E-Verify federal work authorization program with respect to the employees hired after enrollment in the program who are proposed to work in connection with the services requested herein.

E-Verify Documentation must be submitted with solicitation response.

Vendor's Initials: _____

EXHIBIT A
Pricing Pages

PRICING TABLE 1: REQUIRED PRICING

The Vendor shall complete the following pricing table(s) (or in a form similar to the pricing tables) and provide firm, fixed pricing necessary to meet the mandatory requirements of the IFB.

DESCRIPTION	UNIT OF MEASURE	UNIT COST	QUANTITY	EXTENDED COSTS
Mobilization (5%)	LS		1	
Clearing & Grubbing	LS		1	
Erosion Control	LS		1	
BioMicrobics Microfast 0.625 Unit w/Leg Extensions Equipment	EA	\$4850	1	\$4850
BioMicrobics Unit Installation	EA		1	
1 ½" Diam. HDPE SDR-9 (Direct Bury)	LF		6015	
1 ½" Diam. HDPE SDR-9 (Horizontal Directional Drill)	LF		485	
6 Strand Fiber Optic Cable in 1.25" HDPE Conduit	LF		6500	
4 FT Diameter Manhole	EA		2	
Air Release Valve and Valve Vault	EA		3	
Furnish and Install Forcemain Pump	EA		1	
Furnish and Install High Head Turbine Dosing Pump	EA		1	
4" Diameter PVC SDR-26 Pipe	LF		50	
2" Diameter HDPE SDR-11, Pressure Rated to 200 psi	LF		50	
1500 Gallon, 2 cell, Concrete Box	EA		1	
1500 Gallon, 1 cell, Concrete Box	EA		1	
Drip Dispersal Field	LS		1	
Gravel Surfacing Restoration	LS		1	
Restoration	LS		1	
Electrical Work	LS		1	
Total				

PRICING TABLE 2: OTHER REQUIRED PRICING

Vendor's Initials: _____

The Vendor must state below all other applicable costs necessary to satisfy the mandatory requirements of the IFB. Unless stated in Exhibit A, the County shall assume that absolutely no other fees or charges, including upgrade fees, will be assessed to the County whatsoever in connection with the MNAC Onsite Wastewater Treatment and Conveyance herein and to satisfy the IFB requirements.

DESCRIPTION/COMMENTS	UNIT OF MEASURE	UNIT PRICE

Vendor's Initials: _____

EXHIBIT A, continued

PRICING TABLE 3: OPTIONAL PRICING

The Vendor may provide firm, fixed pricing for optional features, expansion options and/or enhancements for the proposed MNAC Onsite Wastewater Treatment and Conveyance project. Also list any pricing discounts.

DESCRIPTION/COMMENTS	UNIT OF MEASURE	UNIT PRICE

ADVANCE PAYMENT OPTION: Not for product purchases.

Vendors may indicate below a percentage deposit required to begin work if the total cost of proposal exceeds \$25,000.00.

_____ %

PRICING TABLE 4: FEE SCHEDULE

If additional services are requested by the County, the Vendor shall prepare and submit to the County an estimate of the total cost associated with such additional services. The Vendor must indicate in the pricing table below the firm, fixed hourly rates for the personnel job classifications that may be necessary to fulfill the requirements of the IFB.

**TASK/PERSONNEL BREAKDOWN
SCHEDULE OF HOURLY BILLING RATES FOR SERVICES**

PERSONNEL CLASSIFICATION	TYPICAL WORK TASKS	HOURLY RATE

Optional: During the course of the contract year, the using departments may need to order items not specifically listed above. Please state below, any discounts for such purposes, from your listed prices.

_____ % Discount off list price

EXHIBIT B

Vendor's Initials: _____

Experience and Expertise

The evaluation of the Vendor's experience and expertise shall be subjective based on the requirements stated herein. Therefore, the Vendor should present detailed information regarding current and/or prior experiences in providing the services and expertise of the organization as well of its personnel. The County shall have the right to use the information provided herein, including information gained from any other source, in the evaluation process.

B.1 EXPERIENCE:

A MINIMUM of three (3) years of experience installing drip dispersal field is required of the successful Vendor, in similar services, as described in the scope. Experience and references provided by Vendors shall be verified and will be a significant factor in the evaluation. Vendors should provide the information below.

How many years has your company been in the drip dispersal installation business?

List a minimum of three (3) references showing contracts held by your company providing the same or similar services for other public entities, local governments or private companies.

Reference No. 1 of 3	
Company/Organization Name:	
Address:	
Name of Contact and Title:	
E-mail Address:	
Telephone No.:	
Contract or Service Period (dates of services):	

Reference No. 2 of 3	
Company/Organization Name:	
Customer Name:	
Address:	
Name of Contact and Title:	
E-mail Address:	
Telephone No.:	
Contract or Service Period (dates of services):	

Reference No. 3 of 3	
Company/Organization Name:	
Customer Name:	
Address:	
Name of Contact and Title:	
E-mail Address:	
Telephone No.:	
Contract or Service Period (dates of services):	

EXHIBIT B, continued

Vendor's Initials: _____

B.2 EXPERTISE:

PERSONNEL QUALIFICATIONS

Vendors should provide the information below.

Indicate person who will be supervising project(s) and years of experience in similar work.

Name: _____ No. of Years: _____

Type of Experience: _____

Complete the following for employees that would be working on this project. List any previous work directly relating to the bid specifications that have been performed for other public entities, local governments or private companies in the last five years. Attach a separate sheet of paper if needed.

EMPLOYEE NAMES	QUALIFICATIONS	EXPERIENCE/TRAINING/ CERTIFICATIONS

Vendor's Initials: _____

**EXHIBIT D
Miscellaneous Information**

D.1 LOCAL GOVERNMENT USE (COOPERATIVE PROCUREMENT):

1) This section is optional, it will not affect bid award. If the County awarded you the proposed contract, would you sell under the prices and terms of this contract to any Municipal, County Public Utility, Hospital, Educational Institution, or any other non-profit organization having membership in the Mid-America Council of Public Purchasing (MACPP) or Mid-America Regional Council (MARC) and located within the Greater Kansas City Metropolitan Trade Area? (All deliveries shall be F.O.B. Destination and there shall be no obligations on the part of any member of said Council to utilize this contract).

YES: _____ NO: _____

INITIALS: _____

2) Sales will be made in accordance with the prices, terms, and conditions of the IFB and any subsequent term contract.

3) There shall, however, be no obligation under the cooperative procurement agreement for any organization represented by MACPP or MARC to utilize the bid or contract unless they are specifically named in the IFB as a joint participating entity.

4) All sales to other jurisdictions shall be made on purchase orders issued by that jurisdiction. All receiving, inspection, payments and other contract administration shall be the responsibility of the ordering jurisdiction.

5) The Purchasing Manager shall be responsible to handle the solicitation and award the contract. The Purchasing Manager shall have the sole authority to modify the contract and handle disputes regarding the substance of the contract.

6) Each jurisdiction that is a party to the joint bid has authority to act as Administrative Contracting Officer with responsibility to issue purchase orders, inspect and receive goods, make payments and handle disputes involving shipment to the jurisdiction.

D.2 WEBSITE INFORMATION:

N/A

Vendor's Initials: _____

EXHIBIT D, continued

D.3 EMPLOYEE BIDDING/CONFLICT OF INTEREST:

Vendors who are elected or appointed officials or employees of Clay County or any political subdivision thereof, serving in an executive or administrative capacity, must comply with sections 105.450 to 105.458, RSMo, regarding conflict of interest. If the Vendor or any owner of the Vendor’s organization is currently an elected or appointed official or an employee of Clay County or any political subdivision thereof, please provide the following information.

Name and title of elected or appointed official
or employee of Clay County or any
Political subdivision thereof:

If employee of Clay County or political
sub-division thereof, provide name of Clay
County entity or political subdivision where
employed:

Percentage of ownership interest in Vendor’s
Organization held by elected or appointed
Official or employee of Clay County
or Political sub-division thereof:

 %

Vendor’s Initials: _____

**ATTACHMENT 1
Sealed Bid Label**

PLEASE ATTACH LABEL TO OUTSIDE OF BID PACKAGE

SEALED BID RESPONSE ENCLOSED

DELIVER TO:

**CLAY COUNTY ~ PURCHASING DEPARTMENT
ATTN: LESLIE DEGROOT
1 COURTHOUSE SQUARE, 3RD FLOOR,
LIBERTY, MO 64068**

BID No.: (141-18) DATE: (January 31, 2019)

BIDS MUST BE RECEIVED BEFORE 5:00 PM CENTRAL TIME

**DESCRIPTION: MNAC ONSITE WASTEWATER TREATMENT AND
CONVEYANCE**

SPECIFY VENDOR NAME: _____

SPECIFY VENDOR'S CITY, STATE LOCATION: _____

Vendor's Initials: _____

**MIDWEST NATIONAL AIR CENTER
ONSITE WASTEWATER TREATMENT
& CONVEYANCE
IFB 141-18
EXCELSIOR SPRINGS, MISSOURI**

**Pre-Bid Meeting
January 3, 2019, 10:00 a.m.**

1. INTRODUCTION

- A. Sign-in sheet
See attached sign-in sheet for list of those in attendance.
- B. Owner
Representing the owner was Leslie DeGroot of Clay County Purchasing Department and Frank Branom of MNAC.
- C. Engineer
Representing the Engineer was: Mike Hart, Les Barnt, and Jacob Cox of GBA.
- D. Contractors
Contractors present were:
Roger Engemann of Engemann Drainage Co.
Dan Ellis of Alliance Pumps

2. REVIEW OF BIDDING PROCEDURES

- A. Bidding Documents
 - 1. Construction Plans
GBA discussed the plan sheets and general layout of the project.
 - 2. Contract Documents and Technical Specifications
 - 3. GBA discussed that the contract documents are included with the technical specifications that were posted online with the plans.
 - 4. Addenda may be issued as needed

GBA stated any potential addenda items will be posted online. Leslie DeGroot of Clay County stated they would be posted by Monday, January 7th.
- B. Invitation for Bid
 - 1. Questions Due: January 4, 2019 at 12:00 PM

- a. Submit questions to Jacob Cox: jcox@gbateam.com
 - b. GBA stated all questions related to the project should go to Jacob Cox.
 - c. Bids Due: January 10, 2019 at 5:00 PM
 - d. Bids to be submitted electronically at <https://www.claycountymo.gov/departments/purchasing>
 - e. See Invitation for Bid for additional details
2. Contractor Requirements
- a. Contractor to be registered onsite wastewater treatment system before work begins per page 1000-1 of the project specifications.
 - b. Contractor to complete the BioMicrobics installation course prior to installation of the treatment system. See 1000-1 of the project specifications.
[Roger of Engemann Drainage Co. asked if the contact information for BioMicrobics would be sent out. GBA stated it would be sent out to the list of contractors that attended the pre-bid meeting.](#)

C. Instructions to Bidders:

1. Bid Submittal

a. Bid Form

[Roger Engemann of Engemann Drainage Co. asked if bid submittal questions should go to Leslie DeGroot. Leslie of Clay County stated they should contact her with bid submittal related questions.](#)

D. Project scope

Purpose of Project: The current wastewater system at the Midwest National Air Center (MNAC) consists of a holding tank that must be emptied and removed several times a month.

This project will provide greater treatment capacity onsite through aeration unit, pump station, forcemain, and dispersal field. The service lines that are currently connected to the holding tank will be rerouted to a collection manhole which will then flow to a treatment tank. The existing holding tank will be left in place and be used as an overflow tank. The treatment tank will consist of a two (2) cell 1500-gallon concrete box that has a settling zone and second zone with a BioMicrobics MicroFAST 0.625 treatment unit with an aeration blower. The

flow will gravity flow to a forcemain pump. This pump will move the flow approximately 6500 LF to the north out of the floodplain through a 1.5” SDR-9 HDPE pipe to a second 1500-gallon concrete box that will hold a dosing pump. This pump will take the treated flow and move it to a drip dispersal field with a minimum area of 12,000 square feet. This field that will have a minimum of 6,000 LF of dispersal tubing in order to disperse the flow at timed intervals below the ground surface.

Dan Ellis of Alliance Pumps asked how much elevation difference is present in the forcemain line. Jacob Cox of GBA stated there is 40 FT of static head in the forcemain.

Dan Ellis of Alliance Pumps asked if the pump for the forcemain needed to be a simplex or duplex pump. Mike of GBA stated the sample pump was a simplex pump or a single pump setup. Mike stated the design has provided the potential for overflows to flow the existing holding tank in the event of a pump failure.

Electrical work shall consist of installing a fiber optic communication line in the same trench as the 1.5” HDPE pipe. Additional electrical work is shown in order to bring electrical service to the pumps, aeration blower, control units, and other items shown on the plans.

See page 6 of the Invitation for Bid and section 1100 of the project specifications for more information.

3. PROJECT OVERVIEW

A. Project details

1. Forcemain Installation

a. Forcemain pump

Roger Engemann asked the forcemain pump needed to be made specifically of concrete or fiberglass. Mike of GBA stated either material is acceptable if the pump is able to withstand the high groundwater conditions.

b. Air Release Valves

c. Tracer Wire

Mike of GBA discussed that the tracer wire is discussed in the specifications. A different tracer wire type is required in the directional drilling portion of the forcemain job than the direct bury portion of the job.

- d. Horizontal Directional Drilling
2. Modifications to South End
- a. Reroute service lines to new manhole

- b. Install concrete tank and BioMicrobics unit

Mike of GBA stated that the concrete structures installed as part of this project must be able to handle the high groundwater table conditions present at the site. Mike stated the risk of floating of the concrete structures is high for this project.

- c. Electrical work

3. Drip Dispersal Field

GBA discussed the drip dispersal field in more detail per Roger Engemann's questions. The drip dispersal tubing is to be ½" diameter tubing, installed at 10" below depth using a vibratory plow or trencher, and must be installed following the manufacturers requirements. Roger Engemann asked if the depth of the tubing was a required depth. Jacob of GBA stated the depth of the tubing is required to be met based on the information provided from the soil morphology report for the project.

GBA stated to contact Residential Sewage Treatment Company (RSTC) of Grandview, MO for information regarding the drip dispersal system components and equipment. The information for RSTC is shown on plan sheet 11 on the Sample Dosing/Treatment tank detail.

Roger Engemann asked if the dispersal tubing had to be installed in individual trenches. GBA responded that the tubing did not have to be installed in individual trenches but needed to be installed per the project specifications.

Roger Engemann asked about the installation of the curtain drain around the dispersal field. Mike of GBA stated that the curtain drain is to be installed per the plans and on the uphill side of the dispersal field in order to keep surface water from running across the dispersal field.

Jacob of GBA also mentioned that dispersal tubing must be installed following the cold weather installation procedures stated in the project specifications if temperatures are less than 40 degrees.

- a. Install concrete tank and dosing pump
- b. Dispersal field
- c. Electrical work

Roger Engemann asked if the meter box at the north end of the project was live. Mike of GBA stated the meter was not live and the power for the north end control must be pulled from the power pole near the road.

d. Chain Link Fence

GBA discussed that a chain link fence is to be installed around the drip dispersal field, dosing tank, and control unit. The drip dispersal field shall have a grass cover maintained over the dispersal tubing. Roger Engemann asked if the crop residue shall be removed prior to installation of the dispersal tubing.

4. Contract Time

- a. Notice to Proceed: Anticipated to be mid-February 2019
- b. Substantial Completion: 60 days, Final Acceptance: 90 days
- c. Work Days: Work days include Monday – Friday. No weekend or holiday work. Coordinate work with Midwest National Air Center as needed.

5. Retainage: 5% until Substantial Completion

6. Easements: All construction and permanent easements have been obtained

7. Permits: The following items have been obtained:

1. Floodplain Development Permit
2. Missouri NPDES Permit
3. FAA Airspace Obstruction Study. All work being done on airport property shall follow FAA regulations. See plan sheet 2, note 14 for FAA regulations. Maximum working height is 30 FT above grade per FAA permit requirements.

Jacob of GBA stated the contractor will need to follow FAA regulations when working on airport property. Frank of MNAC stated that the contractor will need to contact him before they begin work on at the north end of the project due to being in the flight path of airplanes.

4. Clay County Construction Permit
5. Stormwater Pollution Prevention Plan (SWPPP)
6. Clay County Health Dept. Onsite Wastewater Permit (pending)

Contractor to obtain any other necessary permits not otherwise specified as being provided by Clay County at no additional cost to the Owner.

Jacob of GBA stated that a potential permit that will have to be obtained by the contractor will be an electrical permit for the electrical modifications as part of the project.

B. Restoration

1. Restore disturbed areas to equal or better condition. See section 2810 of the technical specifications for more information.

Roger Engemann asked what type of soil is present at the site. Les of GBA stated the soil morphology report showed clay type soil to be present at the north end of the project in the area of the dispersal field.

Roger Engemann asked what type of grass seed is to be planted. Jacob of GBA stated the seed is specified in the project specifications but is similar to a Bluegrass mix.

2. Restore any trees removed with identical species
3. Restore any driveways to equal or better condition.
4. Drip Dispersal Field: As stated in the specifications section 11331, dispersal tubing installed in cold weather shall require a vegetative cover to prevent freezing.

4. QUESTIONS

Roger Engemann asked if the Engineer's estimate of probable cost of the project could be shared. Jacob of GBA stated the estimate was not able to be shared.

5. SITE VISIT

A site visit was not conducted.

