#### **ADVERTISEMENT FOR BIDS**

# JOHNSON COUNTY COMMISSION JOHNSON COUNTY, MISSOURI JOHNSON CO. DETENTION CENTER WWTP UV ADDITION

Johnson County Commission (Owner) is requesting Bids for the construction of the following Project:

#### Johnson Co. Detention Center WWTP UV Addition McClure PN 2023001670-010

Bids for the construction of the Project will be received at the **Johnson County Commission** office located at **300 N. Holden, Ste. 201, Warrensburg, MO 64093** until **Tuesday, October 22, 2024** at **1:00 p.m.** local time. At that time the Bids received will be **publicly** opened and read at 1:30 p.m.

The Project includes the following Work:

- 1. Installation of a UV system for disinfection or treated wastewater.
- 2. All other work shown on the Drawings and called for in the Specifications.

Copies of plans and specifications can be seen or purchased for a Non-Refundable fee on-line at <a href="https://www.drexeltech.com">www.drexeltech.com</a> in their eDistribution plan room, additional assistance is available at <a href="mailto:distribution@drexeltech.com">distribution@drexeltech.com</a>. Information regarding this project can be found in the "Public Jobs" link on the website. Contractors desiring the Contract Documents for use in preparing bids may also obtain a set of such documents from Drexel Technologies; 10840 West 86th Street, Lenexa, KS 66214, telephone number is 913-371-4430. Bidding documents will be shipped only if the requesting party assumes responsibility for all related charges. Corporate, certified, or cashier's checks shall be made payable to Drexel Technologies, Inc.

Questions on the Bid Documents from general contractors and sub-contractors will be answered by the Macon, MO office of the Consulting Engineer. All questions must be submitted using the Request for Information Form (RFI) included in the specifications to Susan Copenhaver of the consulting engineer via e-mail at <a href="mailto:scopenhaver@mecresults.com">scopenhaver@mecresults.com</a>. Any explanation or interpretation made will be in the form of a written response on the RFI form or by Addendum issued by the Consulting Engineer and furnished to all Bidders identified as plan holders of record. No requests for alternate or "equivalent" products will be considered prior to Bid Opening.

A pre-bid conference for the Project will be held on **Wednesday, October 9, 2024,** at **10:00 a.m.** at **Johnson County Sheriff's Shooting Range located just north of 278 SW 87st Road, Center, MO 63436.** Attendance at the pre-bid conference is encouraged but not required.

**Note:** Construction completion time will be 60 days after the date of the Notice to Proceed.

For all further requirements regarding bid submittal, qualifications, procedures, and contract award, refer to the Instructions to Bidders that are included in the Bidding Documents.

#### This Advertisement is issued by:

Owner: Johnson County Commission

By: **Jennifer Powers** 

Title: County Clerk Chief Deputy

Date: September 23, 2024

#### ADDENDUM NO. 1 TO PLANS AND SPECIFICATIONS FOR THE

# JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION JOHNSON COUNTY, MISSOURI

MEC PROJECT NO. 2023001670

#### TO ALL PLAN HOLDERS:

This Addendum No. 1 shall be attached to and become part of the Contract Documents for the "JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION, JOHNSON COUNTY, MISSOURI" project. The Specifications and Plans shall be changed and added to as follows:

#### PRE-BID MEETING LOCATION

Clarification: The Pre-Bid Meeting location address is 278 SW 871st Road, Centerview, MO 64019.

If you have any questions, please contact Coby Crowl at 816-502-3909.

NUMBER PE-2000150006

Very truly yours,

McCLURE ENGINEERING COMPANY

Coby Crowl, P.E. Team Leader

#### ADDENDUM NO. 2 TO PLANS AND SPECIFICATIONS FOR THE

## JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION JOHNSON COUNTY COMMISSION JOHNSON COUNTY, MISSOURI

**MEC PROJECT NO. 2023001670** 

#### TO ALL PLAN HOLDERS:

This Addendum No. 2 shall be attached to and become part of the Contract Documents for the "JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION, JOHNSON COUNTY, MISSOURI" project. The Specifications and Plans shall be changed and added to as follows:

#### **BID DATE**

Bid submission deadline is changed to October 29, 2024, at 1:00 p.m. Bids will be opened and read aloud October 29, 2024, at 1:30 p.m.

#### **ENGINEER'S CERTIFICATION PAGE**

Replace Engineer's Sealed Certification Page in the Specifications with one attached as signed and dated.

#### PRE-BID MEETING MINUTES

Attached are the Pre-Bid Meeting Minutes and Sign-In-Sheet from the October 9, 2024, Meeting. Items discussed followed the agenda. Clarifications and answers to questions discussed in the meeting are shown in RED text.

#### **AGREEMENT**

Clarification: Liquidated Damages will be \$500 per calendar day.

If you have any questions, please contact Coby Crowl at 816-502-3909.

Sincerely,

McCLURE ENGINEERING COMPANY

Coby Crowl, P.E. Team Leader



## SPECIFICATIONS FOR

## JOHNSON CO. DETENTION CENTER WWTP UV ADDITION JOHNSON COUNTY COMMISSION, JOHNSON COUNTY, MISSOURI

MEC PROJECT NO. 2023001670-010



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Missouri.

Coby Crowl, P.E. No. <u>E2000150006</u> (Date)

My license renewal date is December 31, 2025

Pages covered by this Seal: "All"

#### PREBID MEETING MINUTES

#### JOHNSON CO. DETENTION CENTER WWTP UV ADDITION JOHNSON COUNTY COMMISSION JOHNSON COUNTY, MISSOURI PROJECT NO. 2023001670-010

## WEDNESDAY, OCTOBER 9, 10:00 A.M. JOHNSON COUNTY SHERIFF'S SHOOTING RANGE

Items in RED text are clarifications discussed during the pre-bid meeting. Sign In Sheet is attached.

#### I. INTRODUCTION

- A. Owner: Johnson County Commission
  - Commissioners: Troy Matthews, Presiding Commissioner; John Marr, Eastern District; Charles Kavanaugh, Western District
  - County Clerk, Chief Deputy: Jennfier Powers
  - Tracy Branter, Executive Director, Johnson County EDC
  - Tony Lerda, Chief Operator O&M Enterprises
- B. Engineer: McClure
  - Coby Crowl, P.E., Project Manager
- C. Purpose of this meeting is to discuss project, specifications, and contract documents, and receive questions relative to the project. Site Tour followed the meeting.

#### II. GENERAL INFORMATION

A. Receive and Open Bids:

Bid Documents to be received at 1:00 P.M. on Tuesday, October 22 29, 2024.

Bids will be opened and read aloud in the Commission Chambers at 1:30 PM, Tuesday, October 24 29, 2024.

Received: Johnson County Commission

300 N. Holden. Ste. 201 Warrensburg, MO 64093

- B. Description of Project:
  - 1. Installation of a UV system for disinfection of treated wastewater.
  - 2. All other work shown on the Drawings and called for in the Specifications.
- C. Bid Bond
  - 1. Each bid shall be accompanied by a Bid Bond, certified check, cashier's check or a Certified Share Draft in a separate sealed envelope in an amount equal to five percent (5%) of the total amount.
- D. Payment for Construction



1. Contractor shall submit Applications for Payment in accordance with Article 6 – Payment Procedures of the Agreement.

#### E. Performance and Payment Bond

1. The successful Bidder will be required to furnish a corporate surety bond in an amount equal to one hundred (100) percent of the Contract Price. Said Bond to be issued by a responsible surety approved by the Owner and authorized to do business in the State of Missouri and shall guarantee the faithful performance of the contract and the terms and conditions therein contained and the maintenance of said improvements in good repair for not less than two (2) years from the time of Substantial Completion. Successful bidder shall also be required to provide Payment Bond as provided in the Specifications.

#### F. Wage Determination – Davis Bacon

1. We anticipate this project to be less than \$75,000. If you determine the cost will be more than \$75,000, minimum wage rates will apply for this contract shall be prevailing wage rates as determined by the Missouri Department of Labor and Industrial Relations and the Davis Bacon Act, as issued by the US Department of Labor for Johnson County, Missouri. Contractor to obtain the latest prevailing wage rates from the Missouri Department of Labor, if needed for Johnson County, Missouri. Heavy Rates are to be used.

#### G. Engineering Services during Construction

- 1. Construction Administration McClure.
- 2. Periodic Resident Project Representative Services McClure.
- 3. Construction Staking Contractor.
- H. Project Meetings Section 01 30 00 "Administrative Requirements".
  - 1. Preconstruction Meeting. Engineer will schedule and lead the meeting, virtually. Engineer will prepare minutes.
  - 2. Project Progress Meetings. Contractor will lead meetings, develop/distribute agendas, schedules and corresponding meeting minutes. Progress meetings are not anticipated for this project.

#### I. Award of Contract

The Owner will receive and consider bids on the Project and will award a single Contract. The award of the Contract will be made to the lowest responsive, responsible bidder, based on the Bid Proposal Form with the lowest Lump Sum Price. Notwithstanding the foregoing, the owner reserves the right to award the contract as it deems to be in the best interests of the County.

#### J. Proposal Form

- 1. Required Bid Security;
- 2. List of Proposed Subcontractors;
- 3. List of Proposed Suppliers;
- 4. List of Project References;
- 5. Evidence of authority in good standing to do business in the state of Missouri; or a written covenant to obtain such license within the time for acceptance of Bids;



- 6. Contractor's License No.: [or] Evidence of Bidder's ability to obtain a State Contractor's License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;
- 7. Required Bidder Qualification Statement with supporting data; and

Name of bidder on proposal form must match company name as registered with the State of Missouri. Attach evidence of authority to sign for corporations, LLC, partnerships, JV's, etc.

#### K. Completion Dates:

 The Work shall be substantially completed within 60 days after the date when the Contract Times commence to run. This is noted in Article 9 of the Instructions to Bidders. Engineer may delay the Notice to Proceed dated based on anticipated delivery of equipment.

#### L. Liquidated Damages

 Failure to meet the substantial completion date or the final completion date will result in liquidated damages of \$500.00 per calendar day. This will be added to the contract by addendum.

#### M. Permits:

- 1. Do all work within easements, rights-of-way, and property furnished by the Owner.
- Construction permits are obtained by the Owner from the Missouri Department of Natural Resources.
- N. Addenda Issued by October 14, 2024.

#### O. Engineer Notes/Comments

- 1. Some updates will be made to the plans to clarify electrical and mechanical expectations.
- 2. The contractor can provide a pre-cast vault with top to be flush with the ground. Note this on the bid form. Existing vault is a pre-cast storm shelter available from manufacturer in Lincoln, Missouri. Stewart Concrete Products. 660-547-2597.
- P. Request for Information (RFI) Questions and Answers
- Q. Open the floor to questions.
- R. Site Tour following meeting (optional).

#### Notes:

- 1. How much time is allotted for by-pass? 30-minutes to an hour at this plant without pumping. A by-pass manhole will be added to the project by addendum.
- 2. Power concerns for the new UV system? Yes. New drawings for the electrical supply and equipment rack will be provided by addendum.
- 3. Is there a concern with power supply from the generator? Supply from the generator will be confirmed.
- 4. Is repair to gravel and fencing required. Yes, apply new gravel is disturbed area within the fence; seed areas outside the fence; and replace/repair fencing removed for work. These shall be incidental to the project.



SIGN-IN SHEET Johnson County, Missorvi - UV Syrton EMAIL PHONE NAME COMPANY Meclurevision, con Coby Crous MCCLUXE Jara Stacker jshackless jocomosherift. 029 Jim. garlan Cemproelecture. biz Chado Shiff Velectric, can 660-441-7538 7050 Jin Garten Empire 2 how Shippy Electric Chad ShitPy MegaKC Corey Diveill Bidse Megallecon 816-225-8532 ethan @ dirksheurycon 660-679-1318 Ethan McPeak Dirks Heavy Contractors 660-624-9124 Joe EPPS JOCOLLE SHERIFF

#### ADDENDUM NO. 3 TO PLANS AND SPECIFICATIONS FOR THE

## JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION JOHNSON COUNTY COMMISSION JOHNSON COUNTY, MISSOURI

#### MEC PROJECT NO. 2023001670

#### TO ALL PLAN HOLDERS:

This Addendum No. 3 shall be attached to and become part of the Contract Documents for the "JOHNSON COUNTY DETENTION CENTER WWTP UV ADDITION, JOHNSON COUNTY, MISSOURI" project. The Specifications and Plans shall be changed and added to as follows:

#### **PLAN SHEETS**

Replace GN-03 with plan sheet marked Addendum No. 3 dated 10-22-24

Replace C-01 with plan sheet marked Addendum No. 3 dated 10-22-24

Replace ME-01 with plan sheet marked Addendum No. 3 dated 10-22-24

Replace ME-02 with plan sheet marked Addendum No. 3 dated 10-22-24

#### **END PLAN SHEET CHANGES**

If you have any questions, please contact Coby Crowl at 816-502-3909.

Sincerely,

McCLURE ENGINEERING COMPANY

Coby Crowl, Participant Team Leader

- 2. THE CONTRACTOR SHALL PROVIDE ONE MARK-UP SET OF RECORD DRAWINGS TO THE ENGINEER INCLUDING ALL AS-BUILT UTILITIES, STRUCTURES, AND GRADES AT THE COMPLETION OF THE PROJECT. THE MARK-UP SET MUST BE NEAT, LEGIBLE, AND MUST DOCUMENT ALL DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS. THE ENGINEER SHALL TRANSFER THE CONTRACTOR'S AS-BUILT INFORMATION INTO AN ELECTRONIC FILE FOR THE OWNER.
- 3. ANY PROPOSED CHANGES TO THE PLAN SET DURING CONSTRUCTION MUST RECEIVE WRITTEN APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES THAT HAVE BEEN MADE THAT HAVE NOT RECEIVED WRITTEN PERMISSION.

### COORDINATION NOTES

- 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL PROPOSED CONSTRUCTION MATERIALS AND EQUIPMENT PRIOR TO CONSTRUCTION. SEE SECTION 01 33 00 - SUBMITTAL PROCEDURES
- 2. THE CONTRACTOR IS RESPONSIBLE FOR SETTING UP A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER AND ENGINEER AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN ANY PUBLIC RIGHT-OF-WAY, EASEMENT, AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE OWNER AND THE ENGINEER.
- 4. THE CONTRACTOR SHALL REFER TO SECTION 01 10 00 SUMMARY OF WORK FOR A SUGGESTED SEQUENCE OF CONSTRUCTION AND FOR SPECIAL COORDINATION ITEMS.
- THE CONTRACTOR MUST NOTIFY THE OWNER AND THE ENGINEER TO COORDINATE THE TIE-IN TO ALL EXISTING UTILITIES.
- QUALITY CONTROL TESTING SHALL BE WITNESSED BY THE OWNER AND/OR THE ENGINEER. CONTRACTOR SHALL PAY FOR AND COORDINATE TESTING PER SECTION 01 45 00 - QUALITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH SHERIFFS OFFICE WHEN WORKING ON SITE TO COORDINATE ANY SHUT DOWNS WITH PLANT OPERATORS.

### SURVEY AND STAKING NOTES

- ELEVATION BENCHMARKS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS AND MAKE ADJUSTMENTS ACCORDINGLY UNDER THE DIRECTION OF THE ENGINEER.
- 2. ANY EXISTING PROPERTY CORNER PINS OR MONUMENTS DAMAGED OR DESTROYED BY CONSTRUCTION SHALL BE RESET BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UPON COMPLETION OF THE PROJECT AND PRIOR TO FINAL PAYMENT. A CERTIFICATION SHALL BE FURNISHED BY A LICENSED LAND SURVEYOR IN THE STATE OF MISSOURI STATING THAT SAID PINS AND MONUMENTS HAVE BEEN RESTORED.

## GRADING AND SEEDING NOTES

- 1. ALL SPOT ELEVATIONS ARE TO THE TOP OF FINISHED GRADE, UNLESS OTHERWISE NOTED
- 2. BACKFILL TO TOP OF CURB (MINUS 1-1/2" FOR SOD, IF REQUIRED).
- ALL SLOPES IN GRADING SHALL BE UNIFORM TO AVOID PONDING.
- 4. ALL SLOPES IN UNPAVED AREAS SHALL BE GRADED TO DRAIN AT 2% MINIMUM, UNLESS NOTED OTHERWISE.
- 5. REMOVE AND STOCKPILE ALL TOPSOIL PRIOR TO ANY EXCAVATION. TOPSOIL RESPREADS SHALL BE PLACED AT A MINIMUM THICKNESS OF
- AS THE GENERAL PERMIT NO. 2 HOLDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A REPORT IDENTIFYING THAT TOPSOIL PRESERVATION REQUIREMENTS HAVE BEEN MET PRIOR TO ISSUANCE OF A CERTIFICATION OF COMPLETION.
- RESTORE ALL DISTURBED AREAS TO THE PRE-CONSTRUCTION CONDITION.
- ALL DISTURBED AREAS OUTSIDE OF THE WALKS, DRIVES, AND STRUCTURES SHALL BE SEEDED AND MULCHED AFTER THE AREAS HAVE BEEN FINISHED. GRADED. AND TOPSOIL HAS BEEN ADDED. FINAL SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH SECTION 32 92 19 -SEEDING.

## TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MAINTAIN ALL ROADWAYS BEING USED NEAR THE CONSTRUCTION SITE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS ACCESS TO THE SITE TO THE OWNER.

## CONFLICTING UTILITIES NOTES

- 1. THE LOCATION OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWINGS AND ARE BELIEVED TO BE ESSENTIALLY CORRECT. NO GUARANTEE IS MADE RELATIVE TO THE COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CONTACT THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FIXTURE/SYSTEM SHOWN ON THE DRAWINGS AT LEAST THREE WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ANY AREA.
- 2. ALL EXISTING UTILITIES, SERVICES, POLES, AND CONNECTIONS SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE. IF DAMAGE IS CAUSED BY CONSTRUCTION TO ANY EXISTING UTILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR RESTORATION OF SAME, IN

- ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER.
- THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF THE UTILITY OR STRUCTURE AND ITS EFFECT ON THE NEW CONSTRUCTION. IF THE PROPOSED ALIGNMENT CONFLICTS WITH THE EXISTING PIPING, THE CONTRACTOR SHALL SUBMIT A REVISED LAYOUT TO ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH INSTALLATION COORDINATION OF THIS WORK WITH THE UTILITY OWNER AND ENGINEER SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 4. EXISTING OR NEW PIPING WITHIN ANY EXCAVATION SHALL BE ADEQUATELY SUPPORTED WITH HAUNCHES, SUPPORT BEAMS, FILL CONCRETE, OR COMPACTED TYPE 'A' FILL AS APPROVED BY THE ENGINEER. YARD PIPING ACROSS TRENCH EXCAVATIONS SHALL BE ADEQUATELY SUPPORTED WITH COMPACTED TYPE 'A' FILL OR CONCRETE. AS APPROVED BY THE ENGINEER.
- ALL FIELD UTILITIES ENCOUNTERED SHALL BE REPAIRED AND RECONNECTED. LOCATIONS SHALL BE PROVIDED TO THE ENGINEER FOR NOTATION IN AS-BUILT DRAWINGS
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY UTILITIES AS REQUIRED FOR COMPLETION OF WORK AT ANY NEW OR EXISTING STRUCTURE.

### **PAVING NOTES**

- 1. CONTRACTOR IS TO PROTECT EXISTING PAVEMENT UNLESS DESIGNATED FOR REMOVAL. DAMAGED PAVEMENT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- NEW PAVEMENT SHALL BE CONSTRUCTED WITH UNIFORM TRANSITIONS BETWEEN SPOT ELEVATIONS.
- 3. ANY EXCAVATION BENEATH NEW OR EXISTING PAVED AREAS OR SIDEWALKS SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 95% MAXIMUM IN-PLACE DENSITY FROM THE BOTTOM OF EXCAVATION TO THE UNDERSIDE OF PAVEMENT OR SIDEWALK.
- CONSTRUCTION OPERATIONS SHALL PROTECT STORM SEWERS AND DRAINAGE WAYS FROM ALLOWING CONCRETE SLURRY FROM CONCRETE OPERATIONS TO DISCHARGE OFF-SITE.

### SANITARY SEWER PIPING NOTES

- ALL SANITARY MANHOLES, SEWER MAINS, AND SERVICE LATERAL CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE SECTION 33 30 00 - SANITARY UTILITY SYSTEMS.
- 2. EXCAVATED TRENCHES UNDER NEW OR EXISTING PAVEMENT OR
- SIDEWALK SHALL BE BACKFILLED TO 95% OF MAXIMUM IN-PLACE DENSITY 3. ALL SANITARY SEWER PIPING SHALL BE SLOPED UNIFORMLY BETWEEN
- GIVEN ELEVATIONS UNLESS APPROVED OTHERWISE. RE-ALIGNMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 4. SANITARY SEWER PIPING SHALL HAVE A MINIMUM COVER OF 5-FEET UNLESS INDICATED OTHERWISE.
- 5. ALL NEW SANITARY SEWERS ARE TO BE CLEANED AND TELEVISED IN ACCORDANCE WITH SECTION 33 30 00 - SANITARY UTILITY SYSTEMS AND SECTION 01 45 00 - QUALITY REQUIREMENTS.
- 6. ALL SANITARY SEWER MANHOLES ARE TO BE VACUUM TESTED IN ACCORDANCE WITH SECTION 33 30 00 - SANITARY UTILITY SYSTEMS AND SPECIFICATION SECTION 01 45 00 - QUALITY REQUIREMENTS.
- 7. ALL CONNECTIONS TO EXISTING PUBLIC SANITARY SEWER MANHOLES SHALL BE CORE-DRILLED AND USE A LINK SEAL. UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- 8. MANHOLE COVERS SHALL HAVE A RAISED DIAMOND ROUGHNESS PATTERN AND CONFORM TO TO DETAIL ON DE-02, ASTM A-48, LATEST EDITION, CLASS 35 WITH 24" DIAMETER FRAME, "SANITARY SEWER" ON FACE OF CASTING.

## **DEMOLITION AND DISPOSAL NOTES**

- OWNER HAS FIRST RIGHT OF REFUSAL ON ALL MATERIAL AND EQUIPMENT
- 2. UNLESS NOTED OTHERWISE, PIPES SHOWN TO BE DEMOLISHED SHALL BE ABANDONED IN PLACE IN ACCORDANCE WITH SECTION 02 41 00 -DEMOLITION.
- 3. CATCH BASINS AND MANHOLES THAT ARE TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY IN AREAS OF NEW CONSTRUCTION.
- 4. FILL ABANDONED PIPES WITH FLOWABLE FILL. BULKHEAD ALL PIPES WITH CAP OR PLUG TO MATCH PIPE. BRICK AND MORTAR, OR CONCRETE
- 5. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING, BUT NOT LIMITED TO, EXCESS SOIL, ROCK, OR ANY OTHER TYPE MATERIALS. THE CONTRACTOR SHALL NOT FILL ANY WETLANDS, LOWLANDS, FLOODPLAINS, OR DRAINAGE WAYS WITH SAID DEBRIS WITHOUT OBTAINING PROPER APPROVALS, PERMITS, LICENSES. ETC. FROM LOCAL, STATE, OR FEDERAL AGENCIES.

## SAFETY NOTES

1. OSHA PROHIBITS CRANE AND BACKHOE OPERATIONS WITHIN 10-FEET OF ENERGIZED PRIMARY CONDUCTORS. TEMPORARY RELOCATION OF ELECTRICAL UTILITIES, INCLUDING RESTRAINT OF POLES, RELOCATION OF POLES, AND RUBBER COVERING OF ENERGIZED CONDUCTORS MAY BE REQUIRED. THE COORDINATION AND COST OF THESE SERVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY RESTRAIN POLES IF THE METHOD OF SUPPORT HAS BEEN SUBMITTED TO AND APPROVED BY THE UTILITY OWNER.

## **BY-PASS PUMPING**

CONTRACTOR TO PROVIDE BY-PASS PUMPING OF PLANT EFFLUENT AS NEEDED FOR VAULT EXCAVATION AND TIE IN OF NEW UV SYSTEM. AVERAGE FLOW FROM PLANT IS 9600 GALLONS. COORDINATE BY-PASS METHOD AND TIMING WITH ENGINEER AND OPERATOR.

UTILITY COMPANIES		
SERVICE	SUPPLIER	PHONE
ELECTRIC GAS	NONE IDENTIFIED ON PROJECT SITE NONE IDENTIFIED ON PROJECT SITE	N/A N/A
DATA	NONE IDENTIFIED ON PROJECT SITE	N/A
WATER	NONE IDENTIFIED ON PROJECT SITE	N/A
SEWER	CITY OF NEW FLORENCE	N/A
ALL	MISSOURI ONE-CALL	811
WASTEWATER PLANT OPERATOR	O&M ENTERPRISES	816-732-4313
	XISTING UTILITIES N	OTE

THESE EXISTING UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGING THEM. NO CLAIMS WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. PAYMENT WILL BE ALLOWED FOR UNCHARTED UTILITIES PER THE SPECIFICATIONS

2001 W Broadway Columbia, MO 65203 P 573-814-1568

Cedar Rapids, IA | Fort Dodge, IA North Liberty, IA | Sioux City, IA Macon, MO | Columbia, MO North Kansas City,MO

Lenexa, KS

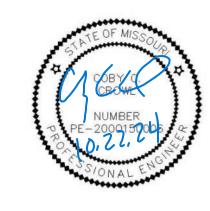
Ankeny, IA | Carroll, IA | Clive, IA

NOTICE:

McClure Engineering Co. is not responsible or liable for any issues claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistences, ambiguities, or conflicts contained within

MISSOURI CERTIFICATE OF **AUTHORITY NO. E-2006023253** EXPIRES: DECEMBER 31, 2024

the Plans and Specifications.



REVISIONS /3\ ADDENDUM #3 10/22/2024

> PROJECT INFO 2023001670-000 PROJECT RELEASE DATE

ENGINEER DRAWN BY CHECKED BY JMB

10/22/2024

NOIL DD 1 JOHNS  $\circ$ 

DRAWING NO.

**GN-03** 

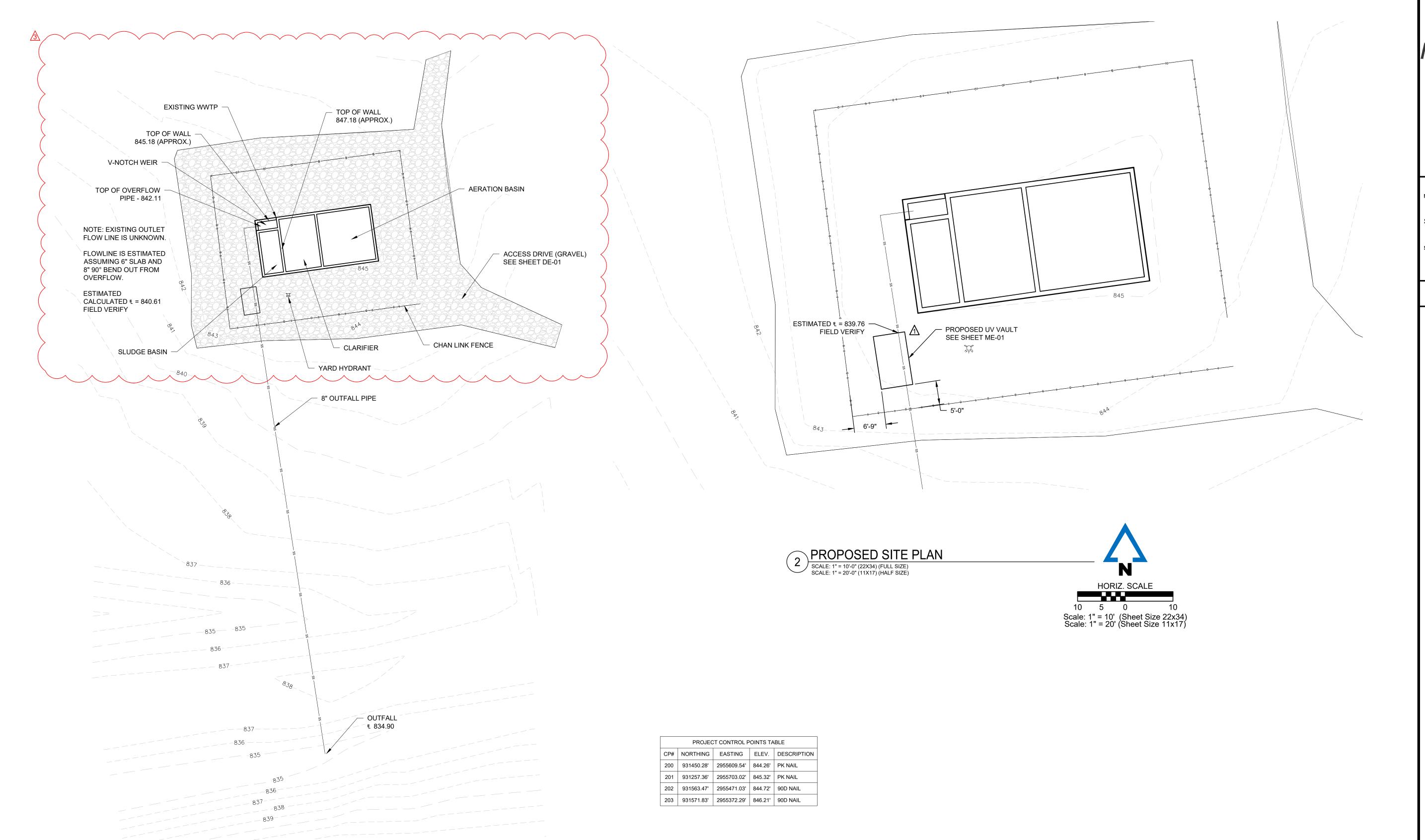
EXISTING SUBSURFACE UTILITY DATA QUALITY LEVELS (DENOTED BY (A), (B), (C), OR (D) IN LINE CODE):

UTILITY QUALITY LEVEL (A) - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 15-mm VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER.

UTILITY QUALITY LEVEL (B) - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

UTILITY QUALITY LEVEL (C) - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL (D) - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.



EXISTING SITE PLAN

HORIZ. SCALE

Scale: 1" = 20' (Sheet Size 22x34) Scale: 1" = 40' (Sheet Size 11x17)

20 10 0

SCALE: 1" = 20'-0" (22X34) (FULL SIZE) SCALE: 1" = 40'-0" (11X17) (HALF SIZE) MCCLURE

2001 W Broadway Columbia, MO 65203 P 573-814-1568

Ankeny,IA | Carroll,IA | Clive,IA
Cedar Rapids,IA | Fort Dodge,IA
North Liberty,IA | Sioux City,IA

Macon,MO | Columbia,MO
North Kansas City,MO
Lenexa, KS

NOTICE:

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253 EXPIRES: DECEMBER 31, 2024



REVISIONS

DNR COMMENTS 03/04/24

ADDENDUM #3 10/22/2024

PROJECT INFO 2023001670-000 PROJECT RELEASE DATE 10/22/2024

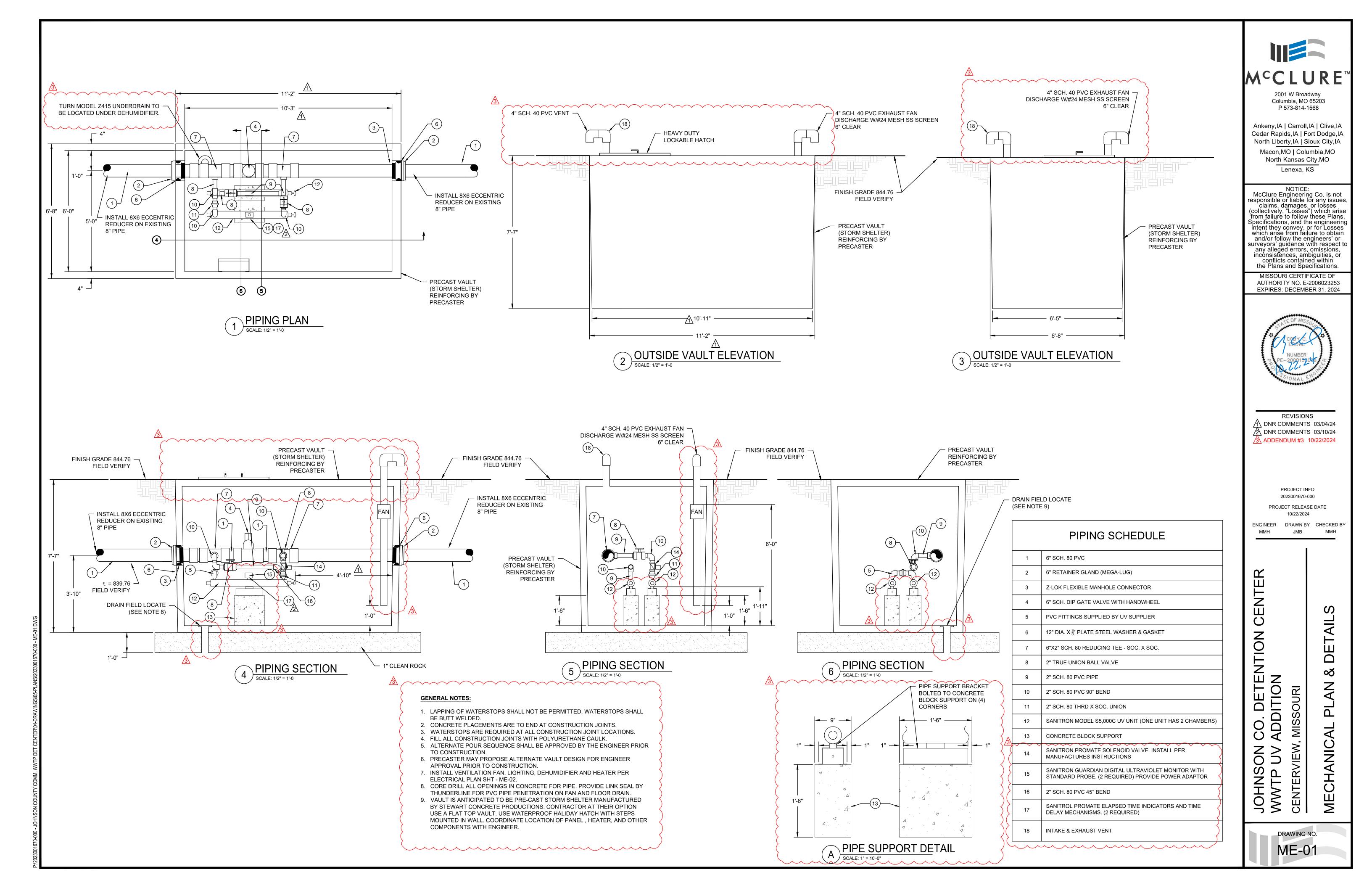
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ISON CO. DETENTION CENTER P UV ADDITION

JOHNSON CO. DET WWTP UV ADDITIO CENTERVIEW, MISSOURI

DRAWING NO.



### **ELECTRICAL SITE PLAN NOTES**

- PROVIDE (3), #10 AWG AND (1) #10 AWG G IN 1" PVC BURIED 2' BELOW GRADE FROM NEW DISCONNECT ON CONTROL PANEL TO VAULT.
- PROVIDE 10 KVA DRY TYPE TRANSFORMER IN VAULT. REFER TO ONE LINE ON THIS SHEET.
- PROVIDE NEW DISCONNECT FOR SERVICE. SEE ONE LINE DIAGRAM.
- 4. PROVIDE NEW DISCONNECT FOR VAULT. SEE ONE LINE DIAGRAM.
- MOUNT LIGHT AND AUDIBLE ALARM FOR UV SYSTEM ON BACK SIDE OF
- PROVIDE (2) #14, #14G IN A 3/4" SCH 40 PVC CONDUIT FROM UV SYSTEM TO EXTERNAL ALARMS.

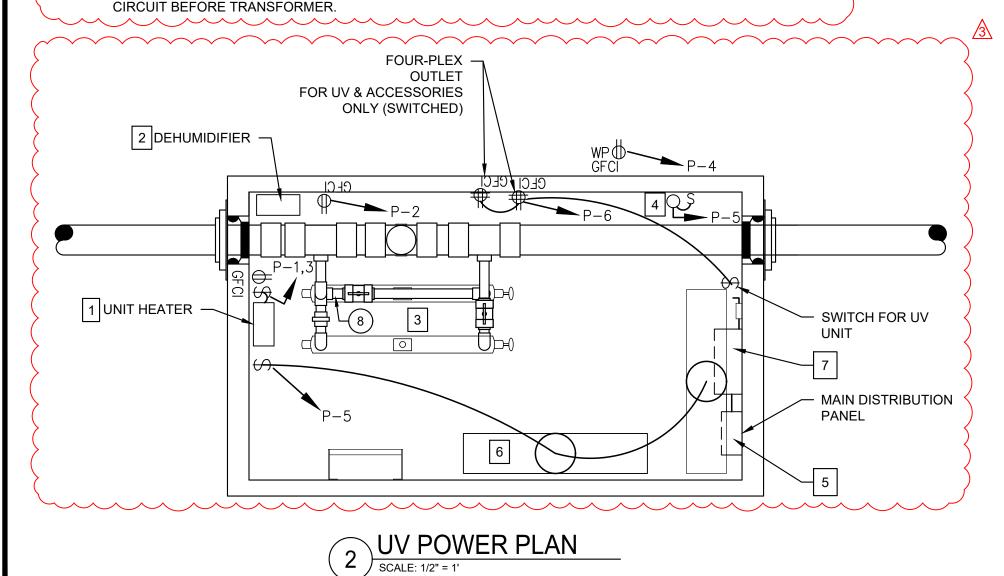
### **GENERAL NOTES:**

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND/OR ANY APPLICABLE STATE AND LOCAL CODES.
- 2. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED EXTERIOR CONDUIT SHALL BE RIGID.
- 3. ALL EXTERIOR PANELS SHALL BE NEMA 3R.
- 4. ALL OUTSIDE AND BURIED WIRING (INCLUDING IN CONDUIT) SHALL BE

### **UV POWER PLAN NOTES:**

HEATER SHALL BE MARLEY MODEL MUH0321 OR EQUIVALENT, 3000W, 240/208V, 1 PHASE, WITH BUILT IN THERMOSTAT, PERMANENTLY LUBRICATED UNIT-BEARING MOTOR, WALL BRACKET, WITH 6' HEAVY DUTY CHORD AND PLUG TYPE #6-20P. PROVIDE RECEPTACLE TO MATCH PLUG TYPE.

- DEHUMIDIFIER SHALL BE APRILAIRE MODEL E070 OR EQUIVALENT, CRAWL SPACE DEHUMIDIFIER TO RMOVE 53 PINTS PER DAY AT 73 DEG DRYBULB, 60% RELATIVE HUMIDITY. (70 PPD @ 80 DEG DRY BULB, 60% RH) BUILT IN DIGITAL CONTROL, WASHABLE MERV 8 FILTER, (PROVIDE TWO FILTERS), 10 FT HOSE FROM 3/4" HOSE FITTING TO DRAIN (CUT TO LENGTH) PROVIDE MODEL 5822 HANGING KIT. MOUNT TO WALL AT 4 FT ABOVE FLOOR.
- 3. UV UNIT SHALL BE SANITRON MODEL S5000C OR EQUIVALENT, 5000GPH, 2" INLET AND OUTLET, 2 LAMP, (LAMP MODEL 05-1311-R), 120V, 280 WATTS, 100 PSI OPERATING PRESSURE, WITH GUARDIAN ULTRAVIOLET MONITOR, FLOW CONTROL VALVE, SENTRY SAFETY SENSOR WITH PROMATE AUDIO ALARM, PROMATE SOLENOID VALVE, AND PROMATE ELAPSED TIME INDICATOR. SUPPORT FROM FLOOR AT 24" INCHES ABOVE FLOOR. ENSURE ADEQUATE SPACE ON ONE END TO REPLACE LAMP.
- 4. FAN TO BE SOLER & PALAU MODEL TD-100 4" INLINE FAN OR EQUIVALENT TO MOVE 90 CFM AT 0" SP. MOUNT TO WALL AT 54" ABOVE FLOOR. EXTEND 3" PIPE TO WITHIN 12" OF FLOOR. EXTEND DISCHARGE THRU STRUCTURE AND TERMINATE WITH TWO 90 DEG ELLS. SEE ELEVATIONS ON SHEET ME-01. OPERATE WITH LIGHTS ON A SWITCH BESIDE THE HATCH.
- 5. ELECTRICAL PANEL SHALL BE 3 PHASE, 8 SPACES, SIEMENS MAIN LUG LOAD CENTER S1224L3125 OR EQUIVALENT. REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER SIZES AND TYPES. MOUNT TO WALL WITH BOTTOM AT 54" ABOVE FLOOR.
- 6. LIGHTS(2 EACH) SHALL BE LITHONIA MODEL FEML 48 3000LM LPAFL WD 120 40K80CRI LED SURFACE MOUNT VAPOR TIGHT . 18 WATT . OPERATE WITH FAN ON A SWITCH MOUNTED BESIDE THE HATCH.
- TRANSFORMER SHALL BE 10 KVA DRY TYPE MADDOX OR EQUIVALENT, COORDINATE WITH POWER AT SITE ON PRIMARY VOLTAGE (480/ 240V OR 480 /277V). SECONDARY VOLTAGE SHALL BE 240/120V SINGLE PHASE. HANG TRANSFORMER ON WALL AT 36" ABOVE FLOOR. PROVIDE DISCONNECT IN





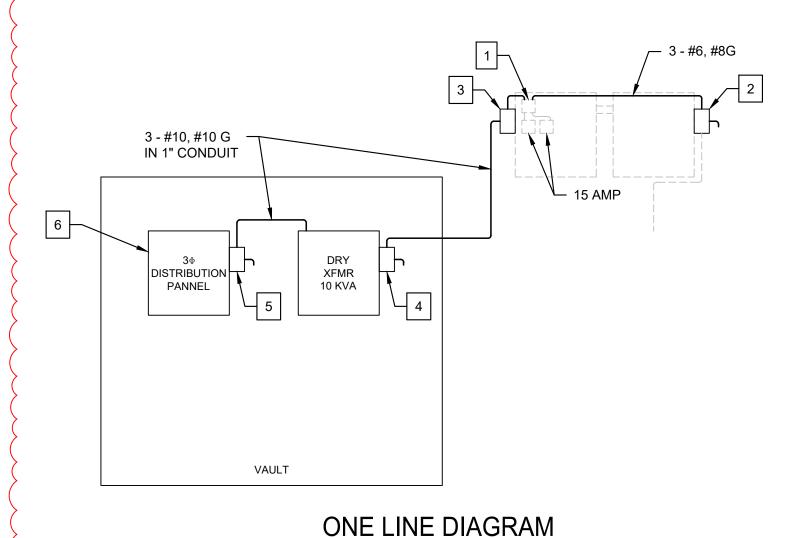


Scale: 1" = 10' (Sheet Size 22x34) Scale: 1" = 20' (Sheet Size 11x17)

### ONE LINE NOTES:

4 5 3

- 1. EXISTING TERMINAL BLOCK TO BE REUSED. REPLACE STRUTS AND MOUNTING BOARDS AS NEEDED WITH CCA #2 LUMBER, USING GALVANIZED NAILS OR SCREWS.
- 2. PROVIDE NEW 60A 3 PHASE DISCONNECT IN A NEMA 3R ENCLOSURE. FOR SERVICE TO EXISTING CONTROL PANELS. EATON MODEL DPU362RA OR EQUIVALENT.
- 3. PROVIDE NEW 40A, 3 PHASE FUSED DISCONNECT IN A NEMA 3R ENCLOSURE.
- 4. PROVIDE NEW 40A 3 PHASE NON FUSED DISCONNECT IN A NEMA 1 ENCLOSURE TO SERVE DRY TRANSFORMER. PROVIDE 10KVA TRANSFORMER TO CONVERT 480V PRIMARY POWER TO 120/240V SECONDARY POWER. CONFIRM PRIMARY POWER VOLTAGE BEFORE ORDERING.
- 5. PROVIDE NEW 30A 3 PHASE FUSED DISCONNECT IN A NEMA 1 ENCLOSURE.
- 6. PROVIDE NEW 120/240V 3 PHASE LOAD CENTER, SIEMENS MAIN LUG LOADCENTER MODEL S1224L3125 OR EQUIVALENT, IN A NEMA 1 ENCLOSURE. SEE PANEL SCHEDULE.



PANEL P Mains: 125 A MLO LOCATION: VAULT. LOAD-VA Voltage: 240/120V, 3 PHASE MINIMUM AIC: LOAD DESCRIPTION LOAD DESCRIPTION 20 EXTERIOR RECEPTACLE **HEATER** 1920 5 LIGHTS AND FAN 20 UV SYSTEM RECEPTACLE 1920 1 15 SPARE 1440 1500 | 1500 | 160 | 2160 | 1920 | 1920 | TOTAL PHASE A: 3660 TOTAL PHASEB: 3420 TOTAL DEMAND LOAD (VA): 9160 TOTAL PHASEC: 2080 TOTAL DEMAND AMPS: 25.5 TOTAL CONNECT LOAD (VA): 9160

TOTAL AMPS: 25.5



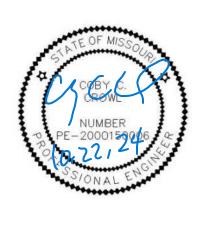
2001 W Broadway Columbia, MO 65203 P 573-814-1568

Ankeny, IA | Carroll, IA | Clive, IA

Cedar Rapids, IA | Fort Dodge, IA North Liberty, IA | Sioux City, IA Macon,MO | Columbia,MO North Kansas City, MO Lenexa, KS

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DNR COMMENT 03/10/24 3 ADDENDUM #3 10/22/2024

> PROJECT INFO 2023001670-000 PROJECT RELEASE DATE

10/22/2024 ENGINEER DRAWN BY CHECKED BY

JMB

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> DRAWING NO. ME-02