



ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

Subject: West Hickman WWTP
Dewatering Improvements

Address inquiries to:
Brian Marcum
brianm@lexingtonky.gov
(859) 258-3325

TO ALL PROSPECTIVE SUBMITTERS:

Please be advised of the following clarifications to the above referenced Bid:

1. Extending Bid due date to Wednesday August 18th, 2021 at 2pm EST.
2. Reconfiguration and removal of some line items in IonWave.
3. Posting of questions and answers.
4. Posting of clarifications and bid form.
5. Posting of drawings.



	Questions	Answers
1.	Section 262923, page 15, Par. 3.2.A specifies that the drive manufacturer is to provide startup of the VFD's. Will this apply to the VFD's specified in Section 467627a and 467627b? The centrifuge manufacturer's field service is trained in starting up the VFD's that are supplied with the centrifuge equipment.	The Centrifuge's manufacturer shall only be responsible for starting up the centrifuge VFD's. The other VFD's are separate and for the sludge feed pumps.
2.	Sections 467627a, page 8, Par. 2.02.N.1.3.g. and h. and 467627b, page 8, Par. 2.02.N.1.3.g and h specify that the VFD's are to be 6-pulse main drive ABB ACS580. However, specification Section 262923, page 3, Par. 2.1.A ca;;s for ABB PowerFlex 753 or equal. Please confirm that the ABB ACS580 in the individual equipment specification section 467627 takes precedent over Section 262693.	The ABB ACS580 VFD is acceptable for the Flottweg centrifuge equipment application only.
3.	Drawing EE-00-701-Field Interconnecting wiring for Alternate 1 depicts an oil-air lubrication system. This conflicts with Specification Section 467627a, Par. 2.02.J on page 6 calls for grease lubrication. Please clarify the type of lubrication for this unit. Options are manual grease lubrication, automatic grease lubrication system, or the air-oil lubrication system.	The oil-air lubrication system will not be required for Alternate 1. The specification is correct.



**ADDENDUM No. 4**

August 11, 2021

Bid Number: **#75-2021**

4.	Section 467627a, page 16, Par. 3.01.A.4.c and Section 467627b, page 16, Par. 3.01.A.4.c. Note that we can do factory testing for several hours with water at the factory in Germany with a loaner control panel. It may not be possible to witness this due to COVID protocol. We can do dry run testing in Independence, KY that can be witnessed. Will both dry run testing and testing with water at the factory be required?	The Owner or Engineer shall not witness factory testing in Germany. A copy of the results of the factory test shall be forwarded to the Owner and Engineer for acceptance. No dry run testing in Independence, KY will be required. All field testing as specified will be required.
5.	The Advertisement for Bids indicates sealed proposals will be received by LFUCG at Central Purchasing. Information on lonwave indicates bids shall be submitted online. Please confirm the bidding arrangement.	All bids shall be submitted on lonwave.
6.	Please allow additional time for Bidders to submit questions on this project. A cut-off date one week before the bid date would be beneficial.	Bid question cutoff will be August 11, 2021
7.	Please provide applicable specifications for Geofoam fill shown on Sheet S-01-101.	Details on the Geofoam product are provided on Drawing S-01-001, 3.30 Cast-In-Place Concrete, Note X.
8.	Who is the consulting engineer on this project ?	GRW Engineers, Inc.
9.	Reference Sheet M-01-103, Keynote #21. Confirm new spill containment pallets are furnished by the contractor. Please direct us to the material specification for the pallets.	Stainless steel spill containment pallets are furnished by the contractor. A material specification has been provided on the attached drawing.





ADDENDUM No. 4

August 11, 2021

Bid Number: #75-2021

10.	Reference 011100, Paragraph 1.05, Additional Engineering Services. To fully evaluate the impact of selecting second, third, or fourth base bid equipment, or offering alternate equipment, what will be the hourly rate charged the contractor for additional engineering review?	Hourly charge for additional review of alternate provided equipment is \$175/hour.
11.	Is the contractor responsible for the cost of any polymer during equipment start-up?	The Owner is responsible for supplying polymer during equipment start-up operations.
12.	Given estimated deliveries and restrictions on demolition of any equipment until replacement equipment is onsite per section 013213, please consider increasing completion time from 335 days to 400 days.	Completion time will not be extended at this time. However, should delivery times not permit timely completion of the project, the Owner will extend time to provide reasonable time for completion.
13.	Per the Section 013213, we will need to know the current flow rates and gallons of sludge currently processed daily through presses. What is the percent solids? We assume if we set up temporary dewatering, owner will continue to provide polymer unless directed otherwise by addendum.	Peak flow rate of thickened sludge is 600 gpm (200 gpm x 3 BFP's). Typical thickened solids percent solids are 1.5% to 3.0%. 300 gpm flow would be a typical peak thickened sludge pumping day. Contractor will provide polymer during temporary pressing operations. Contractor will be responsible for processing all solids, no matter how many hours per day of temporary pressing operation is required.
14.	Please confirm the Owner will provide dumpsters for the dewatering sludge	The Owner will provide dumpsters for the dewatered sludge. The Owner will move the dumpsters when full and replace with an empty dumpster.
15.	Please confirm the Owner will pay all trucking and disposal fees associated with the dewatered sludge.	The Owner will pay all trucking and disposal fees associated with the dewatered sludge.
16.	Can the existing waste sludge pumps be used to feed the temporary sludge presses? Are these pumps VFD driven?	The existing waste sludge pumps may be used to feed the temporary sludge presses. The pumps are VFD driven. The Contractor shall be responsible for installation and removal of all temporary piping to feed the temporary presses.



**ADDENDUM No. 4**

August 11, 2021

Bid Number: **#75-2021**

17.	Per Section 030130, Concrete Repair and Restoration, the majority of the concrete restoration areas are located on the exterior walls of the two existing sedimentation basins. Please clarify how this applies to the Project.	The concrete repair and restoration for the project are for miscellaneous visible defects in the walls and floors of the Solids Processing Building Polymer Feed area and the second floor. Please disregard the reference to "Sedimentation Basins". The major concrete repairs are those shown on Drawing S-01-102. The other needed floor repairs will be reviewed after the existing floor coatings, concrete curbs, and equipment have been removed to the fullest extent. These miscellaneous repairs shall be included in the bid. No extensive hammering, concrete removal, sawing, or extensive leveling fillers are anticipated. Proper preparation of the floor, removal of demolished concrete bases, application of concrete bonding compounds, filling of voids and rough surfaces with grout, and proper finishing are included.
18.	Please verify the number of equipment pedestals that will be required for each centrifuge. Structural details are on Sheet number S-01-001, but no quantity is provided or shown.	Typical pedestal details have been provided on sheet S-01-001. The height of each pedestal shall be the height that allows the centrifuge to reach the specified influent centerline elevation shown on sheets M-01-302 or M-01-303. Concrete pedestals shall not interfere with other appurtenances.
19.	Please verify how the project bids will be evaluated and award decisions be made.	The project award will be based on the lowest bid of the alternatives provided.
20.	Alternate #1 – Drawing E-00-601 shows the 20 Amp Breaker – Note #7 and the 40 Amp Breaker Note #8 being installed in Section 5D of MCC-SPB. For both breakers to fit into this section they would need to be ½ Space Factor Each. Allen Bradley says they need to be 1 Space Factor Each and will not fit as shown. Please provide revised modification drawings as to where they will need to be installed.	Please refer to Section 2 of this addenda – Drawings of required modifications.





ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

21.	<p>Alternate #2- Drawing E-00-602 shows the 20 Amp Breaker – Note #7 and the 40 Amp Breaker Note #8 being installed in Section 5D of MCC-SPB. For both breakers to fit into this section they would need to be ½ Space Factor Each. Allen Bradley says they need to be 1 Space Factor Each and will not fit as shown. Also in regards to the (3) 250Amp Breakers Notes #5, #6 and #7 they are shown being installed in section that is only 1 ½ Space Factor but are required to have a space factor of 2. Please provide revised modification drawings as to where they will need to be installed.</p>	<p>Please refer to Section 2 – Drawings of required modifications.</p>





ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

22.	<p>On Sheet A-01-102, Sheet Keynote 3 says, “Existing mechanical louver, blank off w/insulated metal panel. See arch for more information. See mechanical and electrical for req’s of motor removal.”. On Sheet H-01-101, Sheet Keynote 2 says “Existing louver to be abandoned in place. See Arch for more information. Install Louver LV-1 approximately 10-11 feet A.F.F. in the space above the glass wall.” On Sheet E-01-102, Sheet Keynote 15 says “Disconnect existing motorized damper for relocation by others. Reroute existing circuit to new location and re-connect as required. See H-Series drawings for more information.”</p> <p>At this time, we feel:</p> <ol style="list-style-type: none"> a. The note on Sheet A-01-102 is correct. b. The highlighted part of the Note on the H-Drawing-1-101 appears to be incorrect. Why would an FRP louver with a motorized damper be installed in an air-conditioned space? c. Additionally, there is not a glass wall at that location. The highlighted portion of the E-drawing note appears to be incorrect. <p>Please review these comments and respond\clarify as necessary.</p>	<p>The drawings and specifications are correct. The existing louver shall be abandoned in place. The existing louver shall be “blanked off” to provide a cover for the existing louver. Damper shall be disconnected. LV-1 shall be installed through the wall 10’ to 11’ above the floor and above the existing louver. The glass wall refers to the adjacent glass partition. LV-1 shall then ventilate the remainder of the storage area, above the ceiling of the office. The electric power supply for the existing damper shall be rerouted to the LV-1.</p>
-----	---	--





ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

<p>23.</p>	<p>In follow up to questions regarding Temporary Dewatering by the contractor, we have identified on G-00-003 reference to a specification section 411000. We don't find this specification provided. Please provide temporary dewatering detail specification referenced.</p> <p>Additionally, the Temporary Dewatering notes state "Contractor shall coordinate power of temporary equipment with owner. Cost shall be included in the bid." Will the owner allow tapping an existing 480 V source of power within the existing the Sludge Holding or Process Building to power temporary dewatering equipment? Assume unless otherwise directed by addendum, contractor shall provide temporary wire, conduit, disconnects etc. to provide means of powering temporary equipment, however because maintaining existing operations, payment for power usage will be by the owner. Please confirm by addendum.</p>	<p>Temporary dewatering is addressed in this addenda, item 3.E., which refers to the Contractors Sequence of Construction. Schedule. Specification section 411000 does not exist, so delete this reference.</p>
------------	---	---



**ADDENDUM No. 4**

August 11, 2021

Bid Number: **#75-2021**

24.	<p>Regarding painting, sheet A-01-601 provides a ROOM FINISH SCHEDULE. There are however notes for floor coatings on various M-Sanitary sheets and not included in the SCHEDULE.</p> <ol style="list-style-type: none"> 1. Can you conform information and update the ROOM FINISH SCHEDULE on A-01-601 to include all rooms and hallways requiring painting? 2. Do the walls, ceilings or any doors get painted in the polymer room on 1st floor? 3. Do the walls, ceilings or any doors get painted in the hallways on 1st floor? 4. Do the walls, ceilings or any doors get painted in the Process/Centrifuge Room on 2st floor? 	<p>Response to questions:</p> <ol style="list-style-type: none"> 1. All rooms and hallways do not require painting. Only the new office and storage areas as shown on the drawings receive paint. 2. No walls, ceilings, or any doors get painted on the first floor. Contractor shall protect walls from concrete splatter when placing concrete. 3. No doors or walls on the first floor get painted. 4. Yes, please see paint schedule. <p>The floors on the second floor shall be coated per the notes on the M sheets and by the specifications. The new office, storage area, process area, and the control room shall have the epoxy floor applied.</p>
-----	--	---

1. CLARIFICATIONS

- A. The Owner desires to have the same manufacturer of conveyor on the project for the centrifuges and for the main conveyor. The owner has identified Spirac, Inc. as the base bid equipment manufacturer for both.

2. DRAWINGS

- A. Sheets E-00-601 and E-00-602

1. DeviceNet modules shall be included with each new MCC feeder breaker bucket and wired/programmed to signal breaker status. System Integrator shall pull in tag to SCADA via existing DeviceNet connection to MCC-SPB.



**ADDENDUM No. 4**

August 11, 2021

Bid Number: **#75-2021****B. Sheet E-00-601**

1. Refer to attached drawing, sheet E-00-601, with Addendum No. 4 indicated in the revision section of the border. Note the area(s) shown clouded. The new auger conveyor control panel shall be feed from existing 50A/3P circuit breaker in MCC-SPB. The 20A/3P circuit breaker for the main output conveyor control panel shall be installed in MCC space 5D.

C. Sheet E-00-602

1. Refer to attached drawing, sheet E-00-602, with Addendum No. 4 indicated in the revision section of the border. Note the area(s) shown clouded. The new auger conveyor control panel shall be feed from existing 50A/3P circuit breaker in MCC-SPB. The 20A/3P circuit breaker for the main output conveyor control panel shall be installed in MCC space 5D.
2. The feeder breaker size for Centrifuge No. 1, 2, and 3 shall be changed to 200A/3P. This size is adequate for the required load and will fit into the 1-1/2 spacefactor area as shown on the drawing.

D. Sheet E-00-701

1. Delete centrifuge air/oil lubrication system and all associated connections.

E. Sheet E-00-702

1. The centrifuge feeder circuit shall be changed to (3)#3/0 and (1)#6 GND in 2" C.

F. Sheet E-01-105

1. Refer to attached drawing, sheet E-01-105, with Addendum No. 4 indicated in the revision section of the border. Note the area(s) shown clouded.
2. Provide electrical equipment and connections as shown for split system FCU-2/ACCU-2.
3. The new auger conveyor control panel shall be fed from the existing auger conveyor circuit breaker in MCC-SPB.

G. Sheet E-01-106

1. Refer to attached drawing, sheet E-01-106, with Addendum No. 4 indicated in the revision section of the border. Note the area(s) shown clouded.
2. Provide electrical equipment and connections as shown for split system FCU-2/ACCU-2. Delete centrifuge air/oil lubrication system and all associated



**ADDENDUM No. 4**

August 11, 2021

Bid Number: **#75-2021**

connections.

3. The new auger conveyor control panel shall be fed from the existing auger conveyor circuit breaker in MCC-SPB.
4. The centrifuge feeder circuit shall be changed to (3)#3/0 and (1)#6 GND in 2" C.

H. Sheet H-01-101, H-01-501, M-01-103

1. Replace these sheets in their entirety with the attached drawings.

3. SPECIFICATIONS

A. Specification Section 409620 – Instrument Lists and Reports

1. Section 1.04D – System Integrator shall provide programming to lockout centrifuge equipment when local generator is running. The tag for “Generator Running Status” exists in Panel P5 PLC. System Integrator shall coordinate with centrifuge manufacturer and provide required messaging for correct operation.

B. Specification Section 462220 – Shaftless Screw Conveyors

1. Change the following of paragraph 2.01.A Manufacturers from, “The shaftless screw conveyor shall be manufactured by Jim Myers & Sons, Inc. (JMS) of Charlotte, N.C., or engineer approved equal., to the following, “The shaftless screw conveyor shall be manufactured by Spirac of Newman, GA., or engineer approved equal.”

C. Part III - Form of Proposal

1. Replace “Part III – Form of Proposal” in its entirety.

D. Part 1 – Advertisement for Bid – Advertisement of Bids

1. Replacement the “Advertisement for Bids” in its entirety.

E. Specification Section 013213 – Contractors Sequence of Construction Schedule

1. Please delete the following from paragraph D:
 - a. “Existing equipment may not be demoed until replacement equipment is onsite.





ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

- b. Temporary dewatering is required while dewatering equipment is being replaced.
 - c. Contractor must coordinate any necessary shut downs with Owner and Engineer.”
2. Please add the following to paragraph D:

4. Temporary Dewatering Requirements

- a. Existing equipment may not be demolished until replacement equipment is onsite.
- b. The Contractor will provide temporary dewatering while dewatering equipment is being replaced. The Contractor shall provide temporary presses during this period, plus the equipment shall remain in-place until start-up is completed and accepted by the Owner. The Owner will provide trailers similar to the ones currently used for the dewatered solids and will be responsible for all hauling, changeout, and fees associated with the sludge removal. The Contractor will be responsible for the loading of the solids into the trailer, whether by temporary conveyance or manual loading. The Contractor will be responsible for all stormwater runoff associated with temporary dewatering. The Contractor shall provide the polymer required for temporary dewatering.
- c. The Contractor shall provide electric power generation for all temporary dewatering.
- d. Contractor shall provide redundant units for reliability.
- e. Dewatering equipment shall achieve at least 15% solids concentration.
- f. Contractor must coordinate any necessary shut downs with Owner and Engineer.

F. Specification Section 331116 – Yard Piping

- 1. Please add the following to section 2.01: Buried ductile iron piping shall have polywrap installed to prevent corrosion.





ADDENDUM No. 4

August 11, 2021

Bid Number: **#75-2021**

Attachments:

- Part 1 – Advertisement for Bids
- Part III – Bid Form
- Drawing E-01-105
- Drawing E-01-106
- Drawing H-01-101
- Drawing H-01-501
- Drawing M-01-103
- Drawing E-00-601
- Drawing E-00-602

Todd Slatin, Director
Division of Central Purchasing

All other terms and conditions of the Bid and specifications are unchanged.
This letter should be signed, attached to and become a part of your Bid.

COMPANY NAME: _____

ADDRESS: _____

SIGNATURE OF BIDDER: _____



PART I

ADVERTISEMENT FOR BIDS^{ADD4}

INDEX

1.	INVITATION	AB-2
2.	DESCRIPTION OF WORK	AB-2
3.	OBTAINING PLANS, SPECIFICATIONS, AND BID DOCUMENTS.....	AB-24.
	METHOD OF RECEIVING BIDS.....	AB-3
	METHOD OF AWARD.....	AB-3
	BID WITHDRAWAL	AB-3
	BID SECURITY	AB-3
	SUBMISSION OF BIDS.....	AB-3
	RIGHT TO REJECT	AB-4
10.	NOTIFICATION TO THE LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT FOR AFFIRMATIVE ACTION PLAN	AB-4
11.	NOTICE CONCERNING DBE GOAL	AB-4
12.	PRE-BID MEETING AND SITE VISIT	AB-5
13.	CONSENT DECREE REQUIREMENTS	AB-5

ADVERTISEMENT FOR BIDS

1. INVITATION

~~Sealed proposals for the following work will be received by the Lexington-Fayette Urban County Government until **2:00 p.m., local time, August 12, 2021** for furnishing all labor and/or materials and performing all work as set forth by this advertisement, conditions (general and special), specifications, and/or the drawings prepared by and for Lexington-Fayette Urban County Government, Division of Water Quality. Immediately following the scheduled closing time for reception of bids, all proposals which have been submitted in accordance with the above will be publicly opened and read aloud.~~^{ADD4}

*Sealed proposals for the following work will be received by the Lexington-Fayette Urban County Government (LFUCG) via Ion Wave (<https://lexingtonky.ionwave.net>) until 2:00 pm, local time, **August 18, 2021** for furnishing all labor and/or materials and performing all work as set forth in the Contract Documents prepared by and for Lexington-Fayette Urban County Government, Division of Water Quality (OWNER). All forms and Contract Documents normally filled out and attached with bid submission shall be downloaded from Lynn Imaging's Planroom and may be viewed on Ion Wave. All notary requirements are waived for this solicitation. A copy of bid bond must be included with submission. Immediately following the scheduled closing time for reception of Bids, all proposals which have been submitted in accordance with the above will be opened electronically and a bid tab sheet will be posted on Ion Wave within approximately 30 mins.*^{ADD4}

Due to the current environment and recommendations for social distancing, LFUCG will only be accepting bids on-line through Ion Wave for this solicitation. Base bid and alternate totals (if required) should be provided on the appropriate line items tab on Ion Wave. Submissions without line item totals (if required) may be rejected and deemed non-responsive. THESE INSTRUCTIONS SUPERCEDE ALL OTHER BID SUBMISSION INSTRUCTIONS PROVIDED IN THIS PACKAGE. PLEASE SUBMIT ALL QUESTIONS VIA THE Q&A MODULE ON ION WAVE.^{ADD4}

2. DESCRIPTION OF WORK

The project includes providing all construction supervision, labor, materials, tools, test equipment necessary for **West Hickman WWTP Solids Handling Improvements**. The project includes two alternate bids. Bid alternate one include the replacement three belt filter presses with two dewatering centrifuges, three polymer blending systems, replacement of approximately 220 lf of 6" ductile buried water line, replacement of (3) 220 lf 4" ductile iron sludge lines, installation of three screw conveyors, two magnetic flow meters, all associated electrical and instrumentation, This project also includes the conversion of storage space into an office with a dedicated mini-split HVAC unit, window replacements, trolley beam demolition. All work listed here together with all related work as specified and shown on the Drawings.

The second alternate includes an additional centrifuge, conveyor, polymer blending system, magnetic flow meter, and all other associated work.

3. OBTAINING PLANS, SPECIFICATIONS, AND BID DOCUMENTS

Plans, Specifications, and Contract Documents shall be obtained from Lynn Imaging, 328 Old Vine Street, Lexington, KY 40507, (859) 255-1021 or (www.lynnimaging.com) and click on planroom for a non-refundable price of reproduction for each full set of plans and documents. Bids must be submitted through LFUCG's Ion Wave. Due to current environment and recommendations for social distancing, no Contract Documents may be examined in person.

4. METHOD OF RECEIVING BIDS

Bids will be received from Prime Contracting firms on a **Lump Sum Basis** for total Project Area. Bids shall be submitted in the manner and subject to the conditions as set forth and described in the Instruction to Bidders and Special Conditions.

Sealed bids shall be clearly marked on the outside of the container as follows: Company Name and Address, Bid Invitation Number, and the Project Name. Bids are to remain sealed until official Bid closure time.

Mailed bids/proposals should be sent to the Director, Division of Central Purchasing, 200 East Main Street, Lexington, KY 40507.

5. METHOD OF AWARD

The Contract, if awarded, will be to the lowest, qualified responsible bidder for the total project whose qualifications indicate the award will be in the best interest of the OWNER and whose bid/proposal complies with all the prescribed requirements. No Notice of Award will be given until the OWNER has concluded such investigation as deemed necessary to establish the responsibility, qualifications and financial ability of Bidders to do the work in accordance with the Contract Documents to the satisfaction of the OWNER within the time prescribed. The OWNER reserves the right to reject the Bid of any Bidder who does not pass such investigation to the OWNER's satisfaction. In analyzing Bids, the OWNER may take into consideration alternate and unit prices, if requested by the Bid forms.

6. BID WITHDRAWAL

No bidder may withdraw his bid for a period of sixty (60) calendar days after the closing date for receipt of bids. Errors and omissions will not be cause for withdrawal of bid without forfeit of bid bond. Bids may be withdrawn in person prior to the closing date of receipt of bids.

7. BID SECURITY

If the bid is \$50,000 or greater, bid shall be accompanied by a certified / cashier's check or bid bond payable to the Lexington-Fayette Urban County Government in an amount not less than Five Percent (5%) of the base bid. Bid bond shall be executed by a Surety Company authorized to do business in the Commonwealth of Kentucky and countersigned by a licensed Kentucky

Resident Agent, representing the Surety Company. Bid Bonds are not required for bids under \$50,000. A certified check or cashier's check is also acceptable forms of bid security.

8. SUBMISSION OF BIDS

CONTRACTORS shall submit their bids to the Lexington-Fayette Urban County Government, Division of Purchasing, via Ionwave. Bids shall be submitted in Ionwave not later than **2:00 p.m., local time, August 18, 2021.**

9. RIGHT TO REJECT

The Purchasing Agent for the Lexington-Fayette Urban County Government reserves the right to reject any and all bids and to waive all informalities and/or technicalities where the best interest of the Lexington-Fayette Urban County Government may be served.

10. NOTIFICATION TO THE LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT FOR AFFIRMATIVE ACTION PLAN AND CURRENT WORKFORCE

The successful bidder must submit with their bid the following items to the Lexington-Fayette Urban County Government:

1. Affirmative Action Plan for his/her firm.
2. Current Workforce Analysis Form.

Failure to submit these items as required herein may result in disqualification of the Bidder from the award of the contract.

All submissions should be directed to:

Lexington-Fayette Urban County Government
Division of Purchasing
200 East Main Street, 3rd Floor, Room 338
Lexington, Kentucky 40507

11. NOTICE CONCERNING MWDBE and Veteran GOALS

Notice of requirement for Affirmative Action to ensure Equal Employment Opportunities and Disadvantaged Business Enterprises (DBE) Contract participation. Disadvantaged Business Enterprises (DBE) consists of Minority-Owned Business Enterprises (MBE) and Woman-Owned Business Enterprises (WBE).

The Lexington-Fayette Urban County Government has set a goal that not less than ten percent (10%) of the total value of this Contract be subcontracted to Disadvantaged Business Enterprises, which is made up of MBEs and WBEs, and set a goal that not less than three percent (3%) of the total value of this Contract be subcontracted to Veteran-Owned Small

Businesses. The goals for the utilization of Disadvantaged Business Enterprises and Veteran-Owned Small Businesses as subcontractors are recommended goals. Contractor(s) who fail to meet such goal will be expected to provide written explanations to the Director of the Division of Purchasing of efforts they have made to accomplish the recommended goal, and the extent to which they are successful in accomplishing the recommended goal will be a consideration in the procurement process. Depending on the funding source, other DBE goals may apply.

For assistance in locating Disadvantaged Business Enterprises Subcontractors contact:

Sherita Miller, Minority Business Enterprise Liaison
Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, 3rd Floor, Room 338
Lexington, Kentucky 40507
smiller@lexingtonky.gov

12. PRE-BID MEETING

A non-mandatory pre-bid meeting will be held at **10:00 AM local time on July 20, 2021** at:

LFUCG- West Hickman Administrative Building
645 West Hickman Plant Rd.
Nicholasville, KY 40356

13. CONSENT DECREE REQUIREMENTS

The work to be provided through this bid will assist the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT** (the “**OWNER**”) in successfully implementing the **PROJECT** and complying with any requirements which are related to the Consent Decree entered in a case styled *United States & Commonwealth of Kentucky v. Lexington Fayette Urban County Government*, United States District Court for the Eastern District of Kentucky, Civil Action No. 5:06-cv-386-KSF (the “**CONSENT DECREE**”). The services provided through this bid are hereinafter referred to as the **PROJECT**. **The primary goal of the PROJECT is to provide the OWNER with the technical support and/or construction services necessary to successfully meet the obligations and deadlines of the CONSENT DECREE.**

The **BIDDER** shall familiarize itself with and shall at all times comply with the **CONSENT DECREE**, and all federal, state and local laws, ordinances, and regulations that in any manner affect the **PROJECT**. Time is of the essence in the performance of this **PROJECT**. **BIDDER** is aware that the **OWNER** is subject to penalties for non-compliance with the **CONSENT DECREE** deadlines.

If delays result solely by reason of acts of the **BIDDER**, the **BIDDER** shall be held liable for any financial penalties incurred by the **OWNER** as a result of the delay, **including but not limited to those assessed pursuant to the CONSENT DECREE**. In the event the parties cannot mutually agree upon the cause(s) associated with delays in completing project deliverables; the **BIDDER** must immediately notify the **OWNER** in the event of such delay,

and provide the **OWNER** a written action plan within five (5) business days on how it will attempt to resolve the delay.

In the event that **Bidder's** delay or other nonperformance of its obligations hereunder results in the imposition of penalties against the **OWNER** pursuant to the **CONSENT DECREE**, or the **OWNER** otherwise suffers damage as a result of such delay or nonperformance, **BIDDER** shall be solely liable to **OWNER** for any and all such damages, including any costs and attorney's fees.

An electronic version of the Consent Decree is available on the LFUCG web page for review or to print a copy at no charge.

PART III^{ADD4}

FORM OF PROPOSAL

INDEX

1. FORM OF PROPOSAL P-2

2. LEGAL STATUS OF BIDDER.....P-4

3. BIDDERS AFFIDAVITP-5

4. BID SCHEDULE – SCHEDULE OF VALUESP-6

5. STATEMENT OF BIDDER'S QUALIFICATIONSP-8

6. LIST OF PROPOSED SUBCONTRACTORSP-11

7. LEXINGTON FAYETTE URBAN COUNTY GOVERNMENT MWDBE
PARTICIPATION GOALS, FORMS, AND GOOD FAITH EFFORTSP-12

8. AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION
AND NON-CONFLICT OF INTEREST.....P-18

9. STATEMENT OF EXPERIENCE.....P-19

10. EQUAL OPPORTUNITY AGREEMENT.....P-21

11. EQUAL EMPLOYMENT OPPORTUNITY AFFIRMATIVE
ACTION POLICY.....P-24

12. WORKFORCE ANALYSISP-25

13. EVIDENCE OF INSURABILITY.....P-26

14. DEBARRED FIRMS.....P-27

15. DEBARRED CERTIFICATIONP-28

PART III

Invitation to Bid No. 75-2021

WEST HICKMAN WWTP SOLIDS HANDLING IMPROVEMENTS

1. FORM OF PROPOSAL

Place: Lexington, Kentucky

Date: _____

The following Form of Proposal shall be followed exactly in submitting a proposal for this Work.

This Proposal Submitted by _____

(Name and Address of Bidding Contractor)

(Hereinafter called "Bidder"), organized and existing under the laws of the State of _____, doing business as _____
_____ "a corporation," "a partnership", or an "individual" as applicable.

To: Lexington-Fayette Urban County Government
(Hereinafter called "OWNER")
Office of the Director of Purchasing
200 East Main Street, 3rd Floor
Lexington, KY 40507

Gentlemen:

The Bidder, in compliance with your Invitation for Bids for **West Hickman WWTP Solids Handling Improvements** having examined the Plans and Specifications with related documents, having examined the site for proposed Work, and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the lump sum and/or unit prices stated hereinafter. These prices are to cover all expenses incurred in performing the Work required under the Contract Documents, of which this proposal is a part. The OWNER will issue work orders for work to be performed under this Contract.

BIDDER hereby agrees to commence work under this contract on or before a date to be specified in the Notice to Proceed and to fully complete the project within the time provided in the Purchase Order or Work Orders issued by the OWNER. BIDDER further agrees to pay liquidated damages, the sum of \$750 for each consecutive calendar day thereafter.

The Bidder hereby acknowledges receipt of the following addenda:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Insert above the number and the date of any Addendum issued and received. If none has been issued and received, the word "NONE" should be inserted.

2. **LEGAL STATUS OF BIDDER**

Bidder _____

Date _____

* 1. A corporation duly organized and doing business under the laws of the State of _____, for whom _____, bearing the official title of _____, whose signature is affixed to this Bid/Proposal, is duly authorized to execute contracts.

* 2. A Partnership, all of the members of which, with addresses are: (Designate general partners as such)

* 3. An individual, whose signature is affixed to this Bid/Proposal (please print name)

*(The Bidder shall fill out the appropriate form and strike out the other two.)

3. **BIDDERS AFFIDAVIT**

Comes the Affiant, _____, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is _____ and he/she is the individual submitting the bid or is the authorized representative of _____, the entity submitting the bid (hereinafter referred to as "Bidder").
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as the "Ethics Act."
7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.
Further, Affiant sayeth naught.

(Affiant)

STATE OF _____

COUNTY OF _____

The foregoing instrument was subscribed, sworn to and acknowledged before me by

_____ on this the _____ day of _____, 20_____.

My Commission expires: _____

NOTARY PUBLIC, STATE AT LARGE

4. BID SCHEDULE – SCHEDULE OF VALUES

The Bidder agrees to perform all the Work described in the Specifications and shown on the Plans for the following proposed lump sum price, if applicable, which shall include the furnishing of all labor, materials, supplies, equipment and/or vehicle usage, services, all items of cost, overhead, taxes (federal, state, local), and profit for the Contractor and any Subcontractor involved, within the time set forth herein. If unit prices are applicable, Bidder must make the extensions and additions showing the total amount of bid.

For a lump sum based bid, the item total is the bid amount the Division uses for bid comparison.

The LFUCG's decision on the bid amount is final.

The contract, if awarded, will be on the basis of materials and equipment specified in the specifications without consideration of possible substitute or "or equal" items.

Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

- Notes:
1. Bids shall include all sales tax, where required, and all other applicable taxes and fees.
 2. All specific cash allowances are included in the price(s) set forth and have been computed in accordance with Paragraph 13.02 of the General Conditions and Specification Section 012100 Allowances.
 3. See Specification 012100 for Description of Allowances. Allowances shall be included in the LUMP SUM CONTRACT PRICE.

Two bid alternatives are provided. The LFUCG shall select the lowest bid alternative. The LFUCG reserves the right to reject all bids.

BID ALTERNATIVE NO. 1. – 2 CENTRIFUGE INSTALLATION

BASE BID PRICE (INCLUDES ALL ALLOWANCES FOR BID ALTERNATIVE NO. 1):

--	--

(USE WORDS)

(FIGURES)

Proposed Major Equipment Manufacturers: The Bidder’s proposed major equipment manufacturers included in their Base Bid price shall be listed below for the requested items.

ALTERNATIVE EQUIPMENT INFORMATION - BID ALTERNATE 1			
Equipment Item	Base Bid Equipment Manufacturer	Alternate Bid Equipment Manufacturer	Lump Sum Deduction
1. Centrifuge	Flottweg	a.	a.
		b.	b.
		c.	c.
. Screw Conveyors	Spirac	a.	a.
		b.	b.
		c.	c.
3. Polymer Blending	USGI	a.	a.
		b.	b.
		c.	c.
4. Check Valves	Golden Anderson	a.	a.
		b.	b.
		c.	c.
		d.	d.
5. Plug Valves	Golden Anderson	a.	a.
		b.	b.
		c.	c.

BID ALTERNATIVE NO. 2. – 3 CENTRIFUGE INSTALLATION

BASE BID PRICE (INCLUDES ALL ALLOWANCES FOR BID ALTERNATIVE NO. 2):

(USE WORDS)	(FIGURES)

Proposed Major Equipment Manufacturers: The Bidder’s proposed major equipment manufacturers included in their Base Bid price shall be listed below for the requested items.

ALTERNATIVE EQUIPMENT INFORMATION – BID ALTERNATE 2			
Equipment Item	Base Bid Equipment Manufacturer	Alternate Bid Equipment Manufacturer	Lump Sum Deduction
1. Centrifuge	Flottweg	a.	a.
		b.	b.
		c.	c.
2. Screw Conveyors	Spirac	a.	a.
		b.	b.
		c.	c.
3. Polymer Blending	USGI	a.	a.
		b.	b.
		c.	c.
4. Check Valves	Golden Anderson	a.	a.
		b.	b.
		c.	c.
		d.	d.
5. Plug Valves	Golden Anderson	a.	a.
		b.	b.
		c.	c.

- Notes: 1. Where more than one Base Bid equipment manufacturer is listed above, the Bidder has the option of including any of the listed manufacturers in the Base Bid. The bidder must indicate the Base Bid equipment included in the Bid by circling the selected manufacturer at the time of the submission of the Bid. The design has been completed using the first listed Base Bid equipment manufacturer. Should the Bidder list the second, third, or fourth Base Bid equipment, the Bidder, at no additional cost to the Owner, shall make any changes to structure, piping controls, electrical, instrumentation, architectural, mechanical, etc. that may be necessary to accommodate this equipment.
2. Space is provided within the above list for BIDDERS to offer lump sum deductions for alternate equipment not listed under the Base Bid equipment manufacturer. BIDDERS are not required to offer deductive alternates. However, should the BIDDER choose to offer for consideration to the OWNER, any alternate manufacturers/products to those listed above, the BIDDER shall provide a detailed submittal of applicable items such as catalog cut sheets, pump curves, hydraulic calculations, specifications, wiring diagrams, P&ID's, technical literature, dimensional drawings, etc., or any other information requested by the OWNER. This submittal information shall be included with the BIDDER's bidding documents for proper evaluation by the OWNER. These submittal items shall be in addition to the submittal requirements listed in the respective technical specifications section of the equipment item or product hereinafter. Alternates will not be evaluated or pre-qualified prior to BID opening.
3. The lowest BIDDER will be determined based on the lowest Base Bid Contract Price of either bid alternate. After selection of the best and lowest BIDDER, the OWNER reserves the right to select any, all, or none of the proposed alternates offered by the selected BIDDER. Bid Alternate equipment prices will not be used in determining the best and lowest BIDDER.

Submitted by:

Firm

Address

City, State & Zip

***Bid must be signed:
(original signature)***

Signature of Authorized Company Representative – Title

Representative/s Name (Typed or Printed)

Area Code – Phone – Extension

Fax #

E-Mail Address

OFFICIAL ADDRESS:

_____ (Seal if Bid is by Corporation)

By signing this form you agree to ALL terms, conditions, and associated forms in this bid package

5. STATEMENT OF BIDDER'S QUALIFICATIONS

The following statement of the Bidder's qualifications is required to be filled in, executed, and submitted with the Proposal:

- 1. Name of Bidder: _____
- 2. Permanent Place of Business: _____
- 3. When Organized: _____
- 4. Where Incorporated: _____
- 5. Construction Plant and Equipment Available for this Project:

(Attach Separate Sheet If Necessary)

- 6. Financial Condition:

If specifically requested by the OWNER, the apparent low Bidder is required to submit its latest three (3) years audited financial statements to the OWNER'S Division of Central Purchasing within seven (7) calendar days following the bid opening.
- 7. In the event the Contract is awarded to the undersigned, surety bonds will be furnished by:

_____ (Surety)

Signed: _____ (Representative of Surety)
- 8. The following is a list of similar projects performed by the Bidder: (Attach separate sheet if necessary).

<u>NAME</u>	<u>LOCATION</u>	<u>CONTRACT SUM</u>

9. The Bidder has now under contract and bonded the following projects:

<u>NAME</u>	<u>LOCATION</u>	<u>CONTRACT SUM</u>

10. List Key Bidder Personnel who will work on this Project.

<u>NAME</u>	<u>POSITION DESCRIPTION</u>	<u>NO. OF YEARS WITH BIDDER</u>

11. DBE Participation on current bonded projects under contract:

<u>SUBCONTRACTORS</u> <u>(LIST)</u>	<u>PROJECT</u> <u>(SPECIFIC TYPE)</u>	<u>DBE</u>	<u>% of WORK</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(USE ADDITIONAL SHEETS IF NECESSARY)

12. We acknowledge that, if we are the apparent low Bidder, we may be required to submit to the OWNER within 7 calendar days following the Bid Opening, a sworn statement regarding all current work on hand and under contract, and a statement on the OWNER'S form of the experience of our officers, office management and field management personnel. Additionally, if requested by the OWNER, we will within 7 days following the request submit audited financial statements and loss history for insurance claims for the 3 most recent years (or a lesser period stipulated by the OWNER).

6. LIST OF PROPOSED SUBCONTRACTORS

The following list of proposed subcontractors is required by the OWNER to be executed, completed and submitted with the BIDDER'S FORM OF PROPOSAL. All subcontractors are subject to approval of the Lexington-Fayette Urban County Government. Failure to submit this list completely filled out may be cause for rejection of bid.

<u>BRANCH OF WORK - LIST EACH MAJOR ITEM</u> Such as: Grading, bituminous paving, concrete, seeding and protection, construction staking, etc.	<u>SUBCONTRACTOR</u>	<u>DBE</u> <u>Yes/No</u>	<u>% of Work</u>
1. _____	Name: _____ Address: _____	_____	_____
2. _____	Name: _____ Address: _____	_____	_____
3. _____	Name: _____ Address: _____	_____	_____
4. _____	Name: _____ Address: _____	_____	_____
5. _____	Name: _____ Address: _____	_____	_____
6. _____	Name: _____ Address: _____	_____	_____
7. _____	Name: _____ Address: _____	_____	_____

(Attach additional sheet(s) if necessary.)

7.

Lexington-Fayette Urban County Government MWDBE PARTICIPATION GOALS

A. GENERAL

- 1) The LFUCG request all potential contractors to make a concerted effort to include Minority-Owned (MBE), Woman-Owned (WBE), Disadvantaged (DBE) Business Enterprises and Veteran-Owned Small Businesses (VOSB) as subcontractors or suppliers in their bids.
- 2) Toward that end, the LFUCG has established 10% of total procurement costs as a Goal for participation of Minority-Owned, Woman-Owned and Disadvantaged Businesses on this contract.
- 3) **It is therefore a request of each Bidder to include in its bid, the same goal (10%) for MWDBE participation and other requirements as outlined in this section.**
- 4) The LFUCG has also established a 3% of total procurement costs as a Goal for participation for of Veteran-Owned Businesses.
- 5) **It is therefore a request of each Bidder to include in its bid, the same goal (3%) for Veteran-Owned participation and other requirements as outlined in this section.**

B. PROCEDURES

- 1) The successful bidder will be required to report to the LFUCG, the dollar amounts of all payments submitted to Minority-Owned, Woman-Owned or Veteran-Owned subcontractors and suppliers for work done or materials purchased for this contract. (See Subcontractor Monthly Payment Report)
- 2) Replacement of a Minority-Owned, Woman-Owned or Veteran-Owned subcontractor or supplier listed in the original submittal must be requested in writing and must be accompanied by documentation of Good Faith Efforts to replace the subcontractor / supplier with another MWDBE Firm; this is subject to approval by the LFUCG. (See LFUCGMWDBE Substitution Form)
- 3) For assistance in identifying qualified, certified businesses to solicit for potential contracting opportunities, bidders may contact:
 - a) The Lexington-Fayette Urban County Government, Division of Central Purchasing (859-258-3320)
- 4) The LFUCG will make every effort to notify interested MWDBE and Veteran-Owned subcontractors and suppliers of each Bid Package, including information on the scope of work, the pre-bid meeting time and location, the bid date, and all other pertinent information regarding the project.

C. DEFINITIONS

- 1) A Minority-Owned Business Enterprise (MBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by persons of African American, Hispanic, Asian, Pacific Islander, American Indian or Alaskan Native Heritage.
- 2) A Woman-Owned Business Enterprise (WBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by one or more women.

- 3) A Disadvantaged Business (DBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by a person(s) that are economically and socially disadvantaged.
- 4) A Veteran-Owned Small Business (VOSB) is defined as a business which is certified as being at least 51% owned, managed and controlled by a veteran and/or a service disabled veteran.
- 5) Good Faith Efforts are efforts that, given all relevant circumstances, a bidder or proposer actively and aggressively seeking to meet the goals, can reasonably be expected to make. In evaluating good faith efforts made toward achieving the goals, whether the bidder or proposer has performed the efforts outlined in the Obligations of Bidder for Good Faith Efforts outlined in this document will be considered, along with any other relevant factors.

D. OBLIGATION OF BIDDER FOR GOOD FAITH EFFORTS

- 1) **The bidder shall make a Good Faith Effort to achieve the Participation Goal for MWDBE and Veteran-Owned subcontractors/suppliers. The failure to meet the goal shall not necessarily be cause for disqualification of the bidder; however, bidders not meeting the goal are required to furnish with their bids written documentation of their Good Faith Efforts to do so.**
- 2) Award of Contract shall be conditioned upon satisfaction of the requirements set forth herein.
- 3) The Form of Proposal includes a section entitled “MWDBE Participation Form”. The applicable information must be completed and submitted as outlined below.
- 4) **Failure to submit this information as requested may be cause for rejection of bid or delay in contract award.**

E. DOCUMENTATION REQUIRED FOR GOOD FAITH EFFORTS

- 1) Bidders reaching the Goal are required to submit only the MWDBE Participation Form.” The form must be fully completed including names and telephone number of participating MWDBE firm(s); type of work to be performed; estimated value of the contract and value expressed as a percentage of the total Lump Sum Bid Price. The form must be signed and dated, and is to be submitted with the bid.
- 2) Bidders not reaching the Goal must submit the “MWDBE Participation Form”, the “Quote Summary Form” and a written statement documenting their Good Faith Effort to do so. If bid includes no MWDBE and/or Veteran participation, bidder shall enter “None” on the subcontractor / supplier form). In addition, the bidder must submit written proof of their Good Faith Efforts to meet the Participation Goal:
 - a. Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow MWDBE firms and Veteran-Owned businesses to participate.
 - b. Included documentation of advertising in the above publications with the bidders good faith efforts package

- c. Attended LFUCG Central Purchasing Economic Inclusion Outreach event
- d. Attended pre-bid meetings that were scheduled by LFUCG to inform MWDBEs and/or Veteran-Owned businesses of subcontracting opportunities
- e. Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and MWDBE firms and Veteran-Owned businesses.
- f. Requested a list of MWDBE and/or Veteran subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).
- g. Contacted organizations that work with MWDBE companies for assistance in finding certified MWDBE firms and Veteran-Owned businesses to work on this project. Those contacted and their responses should be a part of the bidder's good faith efforts documentation.
- h. Sent written notices, by certified mail, email or facsimile, to qualified, certified MWDBEs and/or Veteran-Owned businesses soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.
- i. Followed up initial solicitations by contacting MWDBEs and Veteran-Owned Businesses to determine their level of interest.
- j. Provided the interested MWDBE firm and/or Veteran-Owned business with adequate and timely information about the plans, specifications, and requirements of the contract.
- k. Selected portions of the work to be performed by MWDBE firms and/or Veteran-Owned businesses in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MWDBE and Veteran participation, even when the prime contractor may otherwise perform these work items with its own workforce
- l. Negotiated in good faith with interested MWDBE firms and Veteran-Owned businesses not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.
- m. Included documentation of quotations received from interested MWDBE firms and Veteran-Owned businesses which were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
- n. Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a MWDBE and/or Veteran-Owned business's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy MWDBE and Veteran goals.

- o. Made an effort to offer assistance to or refer interested MWDBE firms and Veteran- Owned businesses to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal
- p. Made efforts to expand the search for MWBE firms and Veteran-Owned businesses beyond the usual geographic boundaries.
- q. Other--any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include MWDBE and Veteran participation.

Note: Failure to submit any of the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to review by the MBE Liaison. Documentation of Good Faith Efforts must be submitted with the Bid, if the participation Goal is not met.



MINORITY BUSINESS ENTERPRISE PROGRAM

Sherita Miller, MPA
Minority Business Enterprise Liaison
Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, KY 40507
smiller@lexingtonky.gov
859-258-3323

OUR MISSION: The mission of the Minority Business Enterprise Program is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long term economic viability of Lexington-Fayette Urban County Government.

To that end the city council adopted and implemented Resolution 484-2017 – A Certified Minority, Women and Disadvantaged Business Enterprise ten percent (10%) minimum goal and a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and Certified Service Disabled Veteran – Owned Businesses for government contracts.

The resolution states the following definitions shall be used for the purposes of reaching these goals (a full copy is available in Central Purchasing):

Certified Disadvantaged Business Enterprise (DBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a person(s) who is socially and economically disadvantaged as defined by 49 CFR subpart 26.

Certified Minority Business Enterprise (MBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by an ethnic minority (i.e. African American, Asian American/Pacific Islander, Hispanic Islander, Native American/Native Alaskan Indian) as defined in federal law or regulation as it may be amended from time-to-time.

Certified Women Business Enterprise (WBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a woman.

Certified Veteran-Owned Small Business (VOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

Certified Service Disabled Veteran Owned Small Business (SDVOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a disabled veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

The term “Certified” shall mean the business is appropriately certified, licensed, verified, or validated by an organization or entity recognized by the Division of Purchasing as having the appropriate credentials to make a determination as to the status of the business.

We have compiled the list below to help you locate certified MBE, WBE and DBE certified businesses. Below is a listing of contacts for LFUCG Certified MWDBEs and Veteran-Owned Small Businesses in (<https://lexingtonky.ionwave.net>)

Business	Contact	Email Address	Phone
LFUCG	Sherita Miller	smiller@lexingtonky.gov	859-258-3323
Commerce Lexington – Minority Business Development	Tyrone Tyra	ttyra@commercelexington.com	859-226-1625
Tri-State Minority Supplier Diversity Council	Susan Marston	smarston@tsmsdc.com	502-365-9762
Small Business Development Council	Shawn Rogers UK SBDC	shawn.rogers@uky.edu	859-257-7666
Community Ventures Corporation	Phyllis Alcorn	palcorn@cvky.org	859-231-0054
KY Transportation Cabinet (KYTC)	Melvin Bynes	Melvin.bynes2@ky.gov	502-564-3601
KYTC Pre-Qualification	Shella Eagle	Shella.Eagle@ky.gov	502-782-4815
Ohio River Valley Women’s Business Council (WBENC)	Sheila Mixon	smixon@orvwbc.org	513-487-6537
Kentucky MWBE Certification Program	Yvette Smith, Kentucky Finance Cabinet	Yvette.Smith@ky.gov	502-564-8099
National Women Business Owner’s Council (NWBOC)	Janet Harris-Lange	janet@nwbo.org	800-675-5066
Small Business Administration	Robert Coffey	robertcoffey@sba.gov	502-582-5971
LaVoz de Kentucky	Andres Cruz	lavozydeky@yahoo.com	859-621-2106
The Key News Journal	Patrice Muhammad	production@keynewsjournal.com	859-685-8488



LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference # _____

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWDBE Company, Name, Address, Phone, Email	MBE WBE or DBE	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1.				
2.				
3.				
4.				

The undersigned company representative submits the above list of MWDBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Company

Company Representative

Date

Title



LFUCG MWDBE SUBSTITUTION FORM

Bid/RFP/Quote Reference # _____

The substituted MWDBE and/or veteran subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to Central Purchasing for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project.

SUBSTITUTED MWDBE Company Name, Address, Phone, Email	MWDBE Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1.					
2.					
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Company

Company Representative

Date

Title



MWDBE QUOTE SUMMARY FORM

Bid/RFP/Quote Reference # _____

The undersigned acknowledges that the minority and/or veteran subcontractors listed on this form did submit a quote to participate on this project. Failure to submit this form may cause rejection of the bid.

Company Name	Contact Person
Address/Phone/Email	Bid Package / Bid Date

MWDBE Company Address	Contact Person	Contact Information (work phone, Email, cell)	Date Contacted	Services to be performed	Method of Communicatio (email, phone meeting, ad, event etc)	Total dollars \$\$ Do Not Leave Blank (Attach Documentation)	MBE * AA HA AS NA Female	Veteran

(MBE designation / AA=African American / HA= Hispanic American/AS = Asian American/Pacific Islander/ NA= Native American)

The undersigned acknowledges that all information is accurate. Any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Company

Company Representative

Date

Title



LFUCG SUBCONTRACTOR MONTHLY PAYMENT REPORT

The LFUCG has a 10% goal plan adopted by city council to increase the participation of minority and women owned businesses in the procurement process. The LFUCG also has a 3% goal plan adopted by cited council to increase the participation of veteran owned businesses in the procurement process. In order to measure that goal LFUCG will track spending with MWDBE and Veteran contractors on a monthly basis. By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentation may result in termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims. Please submit this form monthly to the Division of Central Purchasing/ 200 East Main Street / Room 338 / Lexington, KY 40507.

Bid/RFP/Quote # _____

Total Contract Amount Awarded to Prime Contractor for this Project _____

Project Name/ Contract #	Work Period/ From: _____ To: _____
Company Name:	Address:
Federal Tax ID:	Contact Person:

Subcontractor Vendor ID (name, address, phone, email)	Description of Work	Total Subcontract Amount	% of Total Contract Awarded to Prime for this Project	Total Amount Paid for this Period	Purchase Order number for subcontractor work (please attach PO)	Scheduled Project Start Date	Scheduled Project End Date

By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentations may result in the termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims.

Company

Company Representative

Date

Title

LFUCG STATEMENT OF GOOD FAITH EFFORTS

Bid/RFP/Quote # _____

By the signature below of an authorized company representative, we certify that we have utilized the following Good Faith Efforts to obtain the maximum participation by MWDBE and Veteran-Owned business enterprises on the project and can supply the appropriate documentation.

_____ Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow MWDBE firms and Veteran-Owned businesses to participate.

_____ Included documentation of advertising in the above publications with the bidders good faith efforts package

_____ Attended LFUCG Central Purchasing Economic Inclusion Outreach event

_____ Attended pre-bid meetings that were scheduled by LFUCG to inform MWDBEs and/or Veteran-Owned Businesses of subcontracting opportunities

_____ Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and MWDBE firms and Veteran-Owned businesses

_____ Requested a list of MWDBE and/or Veteran subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).

_____ Contacted organizations that work with MWDBE companies for assistance in finding certified MWBDE firms and Veteran-Owned businesses to work on this project. Those contacted and their responses should be a part of the bidder's good faith efforts documentation.

_____ Sent written notices, by certified mail, email or facsimile, to qualified, certified MWDBEs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.

_____ Followed up initial solicitations by contacting MWDBEs and Veteran-Owned businesses to determine their level of interest.

_____ Provided the interested MWBDE firm and/or Veteran-Owned business with adequate and timely information about the plans, specifications, and requirements of the contract.

_____ Selected portions of the work to be performed by MWDBE firms and/or Veteran-Owned businesses in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MWDBE and Veteran

participation, even when the prime contractor may otherwise perform these work items with its own workforce

_____ Negotiated in good faith with interested MWDBE firms and Veteran-Owned businesses not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.

_____ Included documentation of quotations received from interested MWDBE firms and Veteran-Owned businesses which were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.

_____ Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a MWDBE and/or Veteran-Owned business's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy MWDBE and Veteran goals.

_____ Made an effort to offer assistance to or refer interested MWDBE firms and Veteran-Owned businesses to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal

_____ Made efforts to expand the search for MWBE firms and Veteran-Owned businesses beyond the usual geographic boundaries.

_____ Other--any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include MWDBE **and Veteran participation.**

NOTE: Failure to submit any of the documentation requested in this section may cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to approval by the MBE Liaison. Documentation of Good Faith Efforts must be submitted with the Bid, if the participation Goal is not met.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Company

Company Representative

Date

Title

8. AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing:

1. That I am the Bidder (if the Bidder is an individual), a partner of the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the attached bid has been arrived at by the Bidder independently, and has been submitted without collusion with, and without any agreement, understanding or planned common course of action, with any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition;
3. That the contents of the bid or bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished, with the bid or bids, and will not be communicated to any such person, prior to the official opening of the bid or bids;
4. That the Bidder is legally entitled to enter into the contracts with the Lexington-Fayette Urban County Government, and is not in violation of any prohibited conflict of interest;
5. (Applicable to corporation only) That as a foreign corporation, we are registered with the Secretary of State, Commonwealth of Kentucky, and authorized to do business in the State _____ or, that as a domestic corporation, we are in good standing with the Secretary of State, Commonwealth of Kentucky _____. Check the statement applicable.
6. This offer is for 60 calendar days from the date this bid is opened. In submitting the above, it is expressly agreed that, upon proper acceptance by the Lexington-Fayette Urban County Government of any or all items bid above, a contract shall thereby be created with respect to the items accepted.
7. That I have fully informed myself regarding the accuracy of the statements made in this statement.
8. That I certify that Subcontractors have not and will not be awarded to any firm(s) that have been debarred from noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 As Amended, Executive Order 11246 As Amended or any other Federal Law.

9. STATEMENT OF EXPERIENCE

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

* Include all officers, office management's, Affirmative Action officials, and field management personnel. (Attach separate sheets if necessary.)

10. EQUAL OPPORTUNITY AGREEMENT

Standard Title VI Assurance

The Lexington Fayette-Urban County Government, (hereinafter referred to as the “Recipient”) hereby agrees that as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78Stat.252, 42 U.S.C. 2000d-4 (hereinafter referred to as the “Act”), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, (49 CFR, Part 21) Nondiscrimination in Federally Assisted Program of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the “Regulations”) and other pertinent directives, no person in the United States shall, on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the U.S. Department of Transportation, including the Federal Highway Administration, and hereby gives assurance that will promptly take any necessary measures to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

The Law

- * Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- * Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and subcontractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- * Section 503 of the Rehabilitation Act of 1973 States:
The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.
- * Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal Contracts.
- * Section 206 (A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:
The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the

full endorsement of the Mayor, Commissioners, Directors, and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractor may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped, and aged persons.

Signature

Name of Business

The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.

The Kentucky equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any count, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) *The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) *The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) *The contract will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) *The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities – Information required

- (1) *For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*
- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor – Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 – 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions quoted above to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

11. **EQUAL EMPLOYMENT OPPORTUNITY AFFIRMATIVE ACTION POLICY**

It is the policy of _____

to assure that all applicants for employment and all employees are treated on a fair and equitable basis without regard to their race, religion, sex, color, handicap, natural origin or age.

Such action shall include employment, promotion, demotion, recruitment or recruitment advertising, layoff or termination, rates of pay and other forms of compensation, and selection for training, whether apprenticeship and/or on-the-job-training.

Furthermore, this company agrees to make special recruitment efforts to hire the protected class whenever feasible. This company also agrees to adhere to all applicable federal, state, and local laws relating to Equal Employment Opportunity for all individuals.

12.

Workforce Analysis Form

Name of Organization: _____

Categories	Total	White (Not Hispanic or Latino)		Hispanic or Latino		Black or African-American (Not Hispanic or Latino)		Native Hawaiian and Other Pacific Islander (Not Hispanic or Latino)		Asian (Not Hispanic or Latino)		American Indian or Alaskan Native (not Hispanic or Latino)		Two or more races (Not Hispanic or Latino)		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrators																	
Professionals																	
Superintendents																	
Supervisors																	
Foremen																	
Technicians																	
Protective Service																	
Para-Professionals																	
Office/Clerical																	
Skilled Craft																	
Service/Maintenance																	
Total:																	

Prepared by: _____

(Name and Title)

Date: ____ / ____ / ____

Revised 2015-Dec-15

13. EVIDENCE OF INSURABILITY

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT CONSTRUCTION PROJECT
(Use separate form for each Agency or Brokerage agreeing to provide coverage)

Names Insured: _____

Employee ID: _____

Address: _____

Phone: _____

Project to be insured: _____

In lieu of obtaining certificates of insurance at this time, the undersigned agrees to provide the above Named Insured with the minimum coverage listed below. These are outlined in the Insurance and Risk Management of Part V (Special Conditions), including all requirements, and conditions:

Section Items	Coverage	Minimum Limits and Policy Requirements	Limits Provided To Insured	Name of Insurer	A.M. Best's	
					Code	Rating
SC-3, Section 2, Part 4.1 – see provisions	CGL	\$1,000,000 per occ. And \$2,000,000 aggregate	\$			
SC-3, Section 2, Part 4.1 – see provisions	AUTO	\$2,000,000/per occ.	\$			
SC-3, Section 2, Part 4.1 – see provisions	WC	Statutory w /endorsement as noted	\$			

Section 2 includes required provisions, statements regarding insurance requirements, and the undersigned agrees to abide by all provisions for the coverage's checked above unless stated otherwise when submitting.

Agency or Brokerage

Name of Authorized Representative

Street Address

Title

City State Zip

Authorized Signature

Telephone Number

Date

NOTE: Authorized signatures may be the agent's if agent has placed insurance through an agency agreement with the insurer. If insurance is brokered, authorized signature must be that of authorized representative of insurer.

IMPORTANT: Contract may not be awarded if a completed and signed copy of this form for all coverage's listed above is not provided with the bid.

14. DEBARRED FIRMS

PROJECT NAME: _____

BID NUMBER: _____

**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
LEXINGTON, KY**

All prime Contractors shall certify that Subcontractors have not and will not be awarded to any firms that has been debarred for noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 As Amended, Executive Order 11246 As Amended or any other Federal Law.

All bidders shall complete the attached certification in duplicate and submit both copies to the Owner with the bid proposal. The Owner (grantee) shall transmit one copy to the Lexington-Fayette Urban County Government, Division of Community Development, within fourteen (14) days after bid opening.

The undersigned hereby certifies that the firm of _____ has not and will not award a subcontract, in connection with any contract award to it as the result of this bid, to any firm that has been debarred for noncompliance with the Federal labor Standards, Title VI of the civil Rights Act of 1964, Executive Order 11246 as amended or any Federal Law.

Name of Firm Submitting Bid

Signature of Authorized Official

Title

Date

15. DEBARMENT CERTIFICATION

All contractors/subcontractors shall complete the following certification and submit it with the bid proposal.

The contractor/subcontractor certifies in accordance with Executive Order 12549 (Debarment and Suspension 2/18/86) that to the best of its knowledge and belief, that it and its principals:

- 1) Are not presently debarred, suspended, proposed for debarment, declared negligible, or voluntarily excluded from covered transactions or contract by any Federal department or agency for noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 as amended, Executive Order 11246 as amended or any other Federal law;
 - a) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - b) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(a) of this certification; and
 - c) Have not within a three year period preceding this bid has one or more public (Federal, State or local) transactions or contracts terminated for cause or default.
- 2) Where the contractor is unable to certify to any of the statements in this certification, such prospective contractors shall attach an explanation to this certification form.

Firm Name: _____

Project: _____

Printed Name and Title of Authorized Representative: _____

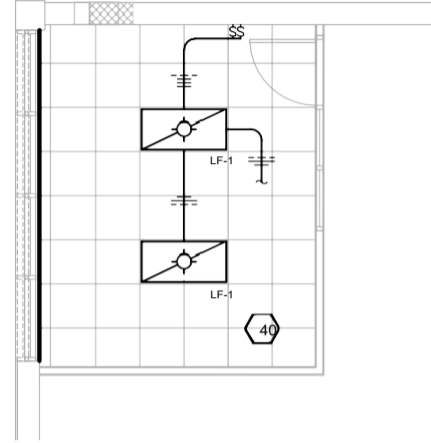
Signature: _____

Date: _____

END OF SECTION

GENERAL NOTES:

1. ALL EXPOSED CONDUITS SHALL BE ALUMINUM ONLY (NO EXCEPTIONS).

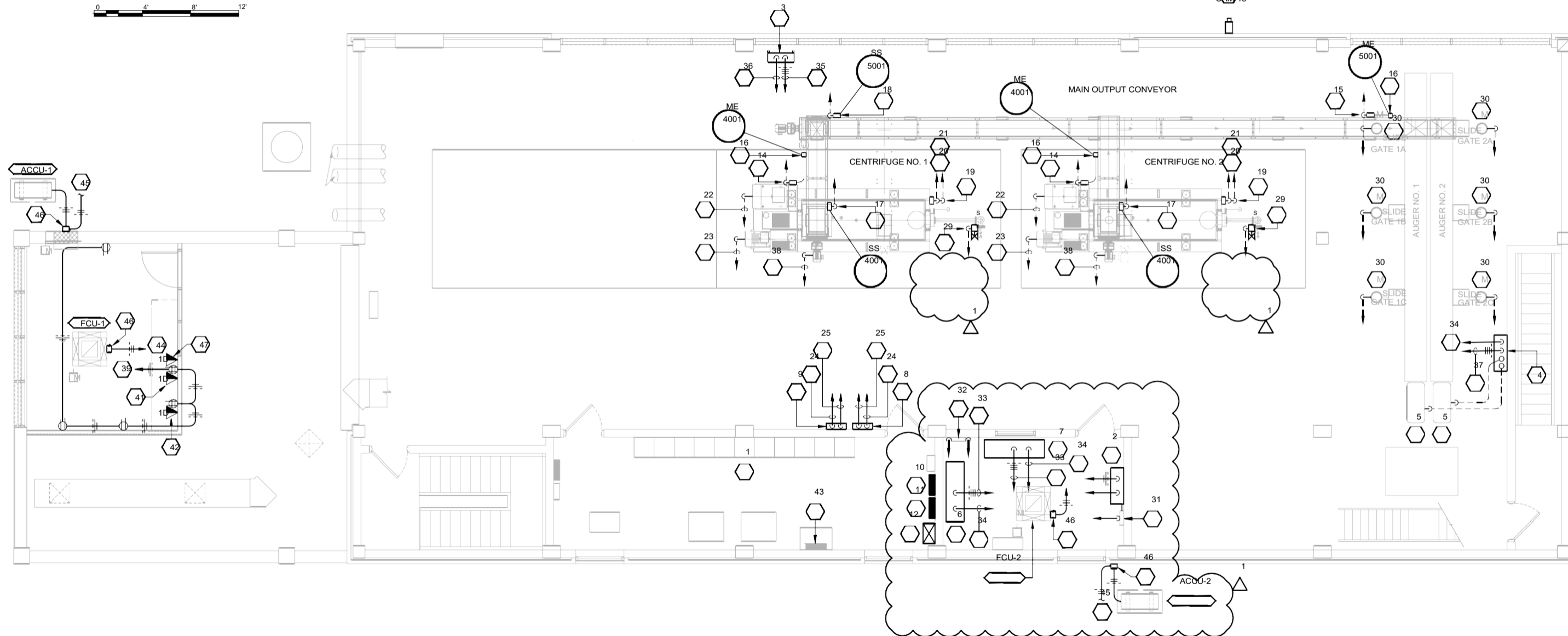


**NEW OFFICE LIGHTING PLAN
(ALTERNATIVE NO. 1)**

SCALE: 3/16"=1'-0"

SHEET KEYNOTES:

1. EXISTING MOTOR CONTROL CENTER MCC-SPB. SEE SHEET E-00-601 AND E-00-602 FOR REQUIRED MODIFICATIONS.
2. NEW SCADA UNIT RTU-SPB. REFER TO I-SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. NEW MAIN OUTPUT CONVEYOR CONTROL PANEL - RACK MOUNTED. SEE CONTROL CIRCUIT SHEET E-00-703 FOR ADDITIONAL INFORMATION.
4. NEW TRUCK LOADING AUGER CONTROL PANEL. SEE CONTROL CIRCUIT I-00-701 THROUGH I-00-704 FOR ADDITIONAL INFORMATION.
5. EXISTING SLUDGE AUGER CONVEYOR.
6. NEW CENTRIFUGE NO. 1 MAIN CONTROL PANEL.
7. NEW CENTRIFUGE NO. 1 LOCAL CONTROL PANEL.
8. NEW CENTRIFUGE NO. 2 LOCAL CONTROL PANEL.
9. NEW CENTRIFUGE NO. 2 LOCAL CONTROL PANEL.
10. NEW PANELBOARD PSPB1 (100A MCB, 208/120V, 3-PHASE, 4-WIRE). NEW PANEL TO BE INSTALLED IN SAME LOCATION AS EXISTING. ALL EXISTING CIRCUITS TO BE RECONNECTED.
11. NEW PANELBOARD PSPB2 (225A MLO, 208/120V, 3-PHASE, 4-WIRE). NEW PANEL TO BE INSTALLED IN SAME LOCATION AS EXISTING. ALL EXISTING CIRCUITS TO BE RECONNECTED.
12. NEW DRY TYPE TRANSFORMER (45KVA, 480V X 208/120, 3-PHASE). NEW TRANSFORMER TO BE INSTALLED IN SAME LOCATION AS EXISTING.
13. NEW IP SECURITY CAMERA MOUNTED IN EXISTING CAMERA LOCATION. STUB CONDUIT THROUGH WALL INTO WALL MOUNT ARM. CAT 6 UTP ETHERNET CABLING SHALL BE ROUTED THROUGH ARM TO CAMERA.
14. CONVEYOR SYSTEM MOTION FAILURE ALARM CONTROLLER (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE (4)#14 AND (1)#14 GND IN 3/4" TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
15. CONVEYOR SYSTEM MOTION FAILURE ALARM CONTROLLER (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE (4)#14 AND (1)#14 GND IN 3/4" TO MAIN OUTPUT CONVEYOR CONTROL PANEL.
16. CONVEYOR SYSTEM MOTION FAILURE SENSORS (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ROUTE MANUFACTURER SUPPLIED CABLING IN 3/4" LIQUIDTIGHT FLEXIBLE CONDUIT TO RESPECTIVE MOTION CONTROLLER.
17. CONVEYOR SAFETY PULLCORD SWITCH (FURNISHED UNDER DIVISION 46). COORDINATE WITH APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT LOCATION. INSTALL (2)#14 AND (1)#14 GND IN 3/4" TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
18. CONVEYOR SAFETY PULLCORD SWITCH (FURNISHED UNDER DIVISION 46). COORDINATE WITH APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT LOCATION. INSTALL (2)#14 AND (1)#14 GND IN 3/4" TO MAIN OUTPUT CONVEYOR CONTROL PANEL.
19. CENTRIFUGE TERMINAL BOX. COORDINATE WITH APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
20. (4)#14 AND (1)#14 GND IN 3/4" (SIMP OIL LEVEL) IN 3/4" FROM CENTRIFUGE TERMINAL BOX TO CENTRIFUGE MAIN CONTROL PANEL.
21. 6C/#16 STP (SPEED SENSORS) + 4C/#16 STP (VIBRATION) + (2) 3C/#16 STP TRIAD (BEARING TEMP) IN 1-1/2" FROM CENTRIFUGE TERMINAL BOX TO CENTRIFUGE MAIN CONTROL PANEL.
22. VFD CABLE (3#10, 3#2 GND) + 2#12 (WINDING THERMOSTATS) IN 3" FROM CENTRIFUGE BOWL MOTOR TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
23. VFD CABLE (3#6, 1#10 GND) + 2#12 (WINDING THERMOSTATS) IN 1-1/2" FROM CENTRIFUGE SCROLL MOTOR TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
24. (1) CAT 6 4-PR UTP + (2)#14 (HMI COMMUNICATIONS, HMI POWER) IN 1" TO CENTRIFUGE MAIN CONTROL PANEL.
25. (2)#14 AND (1)#14 GND (E-STOP PUSHBUTTON) IN 3/4" TO CENTRIFUGE MAIN CONTROL PANEL.
26. NTOE NOT USED.
27. NOTE NOT USED.
28. NOTE NOT USED.
29. CENTRIFUGE FEED LINE FLUSH VALVE SOLENOID (FURNISHED WITH CENTRIFUGE EQUIPMENT UNDER DIVISION 46). ROUTE (2)#14 AND 1#14 GND IN 3/4" FROM FLUSH VALVE SOLENOID TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
30. EXISTING SLIDE GATE. FURNISH AND INSTALL (3)#12 AND (1)#12 GND IN 3/4" TO NEW AUGER CONTROL PANEL.
31. EXISTING SCADA NETWORK FIBER TERMINATION PANEL RELOCATED TO THIS LOCATION. RECONNECT EXISTING FIBER OPTIC CABLES. ROUTE (2) 2-STRAND FIBER OPTIC PATCH CABLES TO ETHERNET SWITCH IN NEW SCADA UNIT RTU-SPB (2 STRANDS FROM EACH 6-STRAND TRUNK CABLE). SEE NETWORKING DEMOLITION AND NEW WORK DIAGRAMS, I-00-602, FOR ADDITIONAL INFORMATION.
32. EXISTING LFUCG CITY NETWORK FIBER TERMINATION PANEL RELOCATED TO THIS LOCATION. RECONNECT EXISTING FIBER OPTIC CABLES. SEE NETWORKING DEMOLITION AND NEW WORK DIAGRAMS, I-00-602, THROUGH I-00-604, FOR ADDITIONAL INFORMATION.
33. (3)350MCM AND (1)#4 GND IN 3" TO NEW 300A/3P CIRCUIT BREAKER INSTALLED IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
34. (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1" TO NEW SCADA UNIT RTU-SPB.
35. (3)#12 AND (1)#12 GND IN 3/4" TO NEW 20A/3P CIRCUIT BREAKER INSTALLED IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
36. (10)#14 AND (1)#14 GND (CONTROL CONDUCTORS) TO NEW SCADA UNIT RTU-SPB.
37. (3)#8 AND (1)#10 GND IN 3/4" TO EXISTING 50A/3P AUGER CONVEYOR CIRCUIT BREAKER IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
38. (3)#12 AND (1)#12 GND IN 3/4" TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
39. (2)#12 AND (1)#12 GND IN 3/4" TO EXISTING SPARE 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD LPSPB.
40. CONNECT TO NEAREST UNSWITCHED 120V LIGHTING CIRCUIT.
41. SCADA WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1" TO NEW SCADA UNIT RTU-SPB.
42. SECURITY CAMERA SYSTEM WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1" TO NEW SECURITY CAMERA NETWORK PANEL ON FIRST FLOOR.
43. EXISTING PANELBOARD LPSPB (150A MLO, 208/120V, 3-PHASE, 4-WIRE).
44. (2)#12 AND (1)#12 GND IN 3/4" TO NEW 15A/2P CIRCUIT BREAKER INSTALLED IN EXISTING PANELBOARD LPSPB.
45. (2)#12 AND (1)#12 GND IN 3/4" TO INDOOR UNIT FCU-1.
46. 30A/240V/1-PHASE NON-FUSED DISCONNECT (NEMA 4X ENCLOSED).
47. LFUCG CITY NETWORK WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1" TO THE CITY NETWORK ETHERNET SWITCH IN THE MAINTENANCE OFFICE ON THE FIRST FLOOR.



**SOLIDS HANDLING BUILDING SECOND FLOOR
ELECTRICAL NEW WORK PLAN (ALTERNATIVE NO. 1)**

SCALE: 3/16"=1'-0"

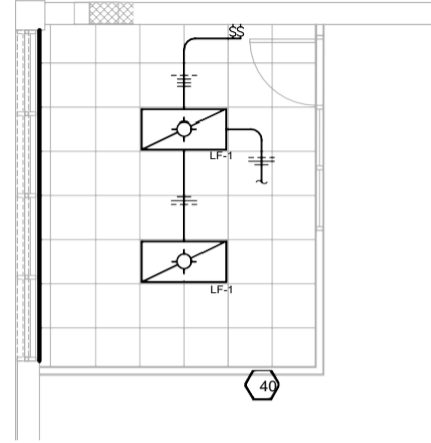
BID DOCUMENTS
 engineering architecture geospatial
 www.grwinc.com

GRW PROJECT NO. 4816	CLIENT PROJECT NO. XXXX	ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GRW INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THIS DOCUMENT. NO REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PERMITTED WITHOUT WRITTEN PERMISSION.
DESIGNED: CTC	DRAWN: STAFF	
CHECKED: CTC	REVIEWED: CTC	APPROVED: CTC
DATE: 8/10/21	DATE: 8/10/21	DATE: 8/10/21
SCALE: AS SHOWN		
SHEET NO. E-01-105		

SOLIDS HANDLING BUILDING
 SECOND FLOOR NEW WORK (ALT. NO.1)
 WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
 LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

GENERAL NOTES:

1. ALL EXPOSED CONDUITS SHALL BE ALUMINUM ONLY (NO EXCEPTIONS).



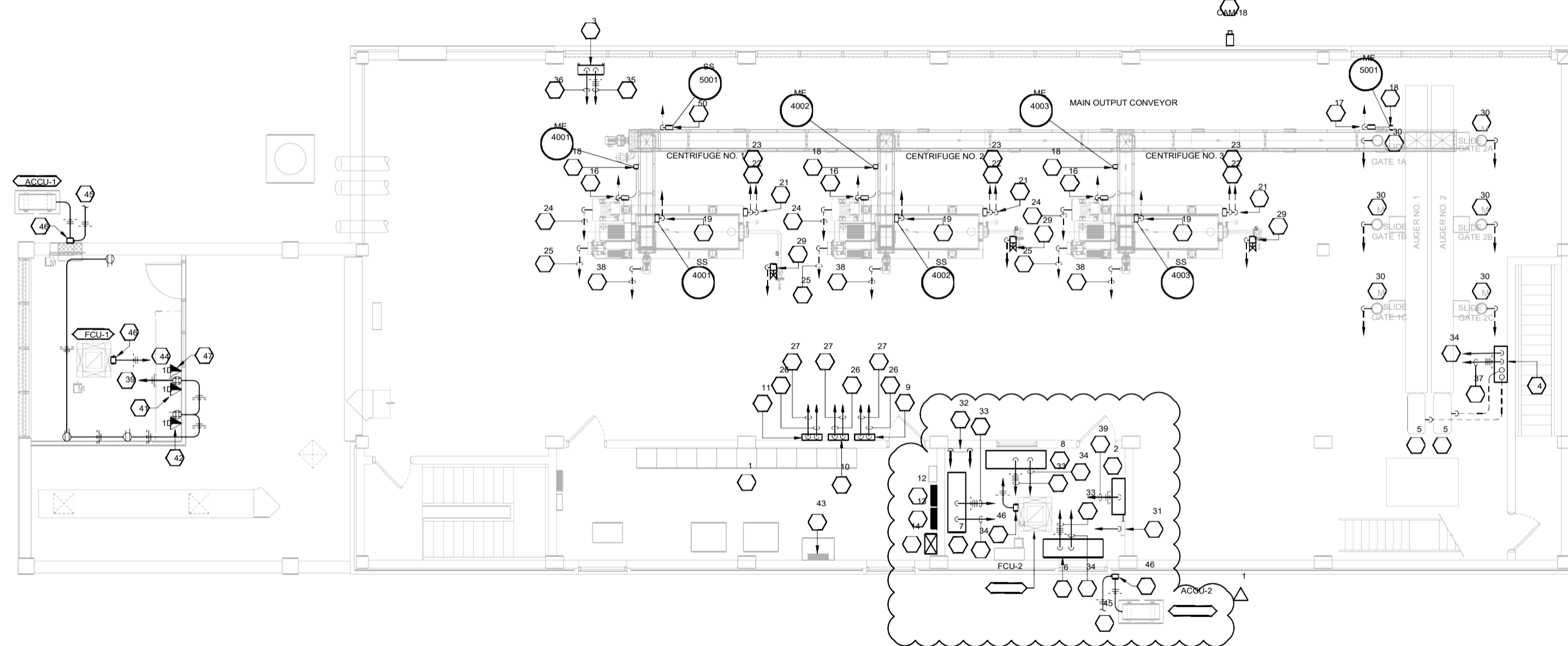
**NEW OFFICE LIGHTING PLAN
(ALTERNATIVE NO. 2)**

SCALE: 3/16"=1'-0"



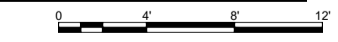
SHEET KEYNOTES:

1. EXISTING MOTOR CONTROL CENTER MCC-SPB. SEE SHEET E-00-601 AND E-00-602 FOR REQUIRED MODIFICATIONS.
2. NEW SCADA UNIT RTU-SPB. REFER TO I-SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. NEW MAIN OUTPUT CONVEYOR CONTROL PANEL - RACK MOUNTED. SEE CONTROL CIRCUIT SHEET E-00-703 FOR ADDITIONAL INFORMATION.
4. NEW TRUCK LOADING AUGER CONTROL PANEL. SEE CONTROL CIRCUIT I-00-701 THROUGH I-00-704 FOR ADDITIONAL INFORMATION.
5. EXISTING SLUDGE AUGER CONVEYOR.
6. NEW CENTRIFUGE NO. 1 MAIN CONTROL PANEL.
7. NEW CENTRIFUGE NO. 2 MAIN CONTROL PANEL.
8. NEW CENTRIFUGE NO. 3 MAIN CONTROL PANEL.
9. NEW CENTRIFUGE NO. 1 LOCAL CONTROL PANEL.
10. NEW CENTRIFUGE NO. 2 LOCAL CONTROL PANEL.
11. NEW CENTRIFUGE NO. 3 LOCAL CONTROL PANEL.
12. NEW PANELBOARD PSPB1 (100A MCB, 208/120V, 3-PHASE, 4-WIRE). NEW PANEL TO BE INSTALLED IN SAME LOCATION AS EXISTING. ALL EXISTING CIRCUITS TO BE RECONNECTED.
13. NEW PANELBOARD PSPB2 (225A MLO, 208/120V, 3-PHASE, 3-PHASE). NEW TRANSFORMER TO BE INSTALLED IN SAME LOCATION AS EXISTING.
14. NEW DRY TYPE TRANSFORMER (45KVA, 480V X 208/120, 3-PHASE). NEW TRANSFORMER TO BE INSTALLED IN SAME LOCATION AS EXISTING.
15. NEW IP SECURITY CAMERA MOUNTED IN EXISTING CAMERA LOCATION. STUB CONDUIT THROUGH WALL INTO WALL MOUNT ARM. CAT 6 UTP ETHERNET CABLING SHALL BE ROUTED THROUGH ARM TO CAMERA.
16. CONVEYOR SYSTEM MOTION FAILURE ALARM CONTROLLER (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE (4)#14 AND (1)#14 GND IN 3/4"C TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
17. CONVEYOR SYSTEM MOTION FAILURE ALARM CONTROLLER (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE (4)#14 AND (1)#14 GND IN 3/4"C TO MAIN OUTPUT CONVEYOR CONTROL PANEL.
18. CONVEYOR SYSTEM MOTION FAILURE SENSOR (FURNISHED UNDER DIVISION 46). INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ROUTE MANUFACTURER SUPPLIED CABLING IN 3/4" LIQUIDTIGHT FLEXIBLE CONDUIT TO RESPECTIVE MOTION CONTROLLER.
19. CONVEYOR SAFETY PULLCORD SWITCH (FURNISHED UNDER DIVISION 46). COORDINATE WITH APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT LOCATION. INSTALL (2)#14 AND (1)#14 GND IN 3/4"C TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
20. CONVEYOR SAFETY PULLCORD SWITCH (FURNISHED UNDER DIVISION 46). COORDINATE WITH APPROVED EQUIPMENT SHOP DRAWINGS FOR EXACT LOCATION. INSTALL (2)#14 AND (1)#14 GND IN 3/4"C TO MAIN OUTPUT CONVEYOR CONTROL PANEL.
21. CENTRIFUGE TERMINAL BOX. COORDINATE WITH APPROVED SHOP DRAWINGS FOR EXACT LOCATION.
22. (4)#14 AND (1)#14 GND IN 3/4"C (SIMP OIL LEVEL) IN 3/4"C FROM CENTRIFUGE TERMINAL BOX TO CENTRIFUGE MAIN CONTROL PANEL.
23. 6C/#16 STP (SPEED SENSORS) + 4C/#16 STP (VIBRATION) + (2) 3C/#16 STP TRIAD (BEARING TEMP) IN 1-1/2"C FROM CENTRIFUGE TERMINAL BOX TO CENTRIFUGE MAIN CONTROL PANEL.
24. VFD CABLE (3#8, 3#8 GND) + 2#12 (WINDING THERMOSTATS) IN 2"C FROM CENTRIFUGE BOWL MOTOR TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
25. VFD CABLE (3#8, 1#8 GND) + 2#12 (WINDING THERMOSTATS) IN 1-1/2"C FROM CENTRIFUGE SCROLL MOTOR TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
26. (1) CAT 6 4-PR UTP + (2)#14 (HMI COMMUNICATIONS, HMI POWER) IN 1"C TO CENTRIFUGE MAIN CONTROL PANEL.
27. (2)#14 AND (1)#14 GND (E-STOP PUSHBUTTON) IN 3/4"C TO CENTRIFUGE MAIN CONTROL PANEL.
28. (6)#14 AND (1)#14 GND (AIR/OIL LUBRICATION UNIT CONTROL CONDUCTORS) IN 3/4"C TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
29. CENTRIFUGE FEED LINE FLUSH VALVE SOLENOID (FURNISHED WITH CENTRIFUGE EQUIPMENT UNDER DIVISION 46). ROUTE (2)#14 AND (1)#14 GND IN 3/4"C FROM FLUSH VALVE SOLENOID TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
30. EXISTING SLIDE GATE. FURNISH AND INSTALL (3)#12 AND (1)#12 GND IN 3/4"C TO NEW AUGER CONTROL PANEL.
31. EXISTING SCADA NETWORK FIBER TERMINATION PANEL RELOCATED TO THIS LOCATION. RECONNECT EXISTING FIBER OPTIC CABLES. ROUTE (2) 2-STRAND FIBER OPTIC PATCH CABLES TO ETHERNET SWITCH IN NEW SCADA UNIT RTU-SPB (2 STRANDS FROM EACH 6-STRAND TRUNK CABLE). SEE NETWORKING DEMOLITION AND NEW WORK DIAGRAMS, I-00-602 THROUGH I-00-604, FOR ADDITIONAL INFORMATION.
32. EXISTING LFUCG CITY NETWORK FIBER TERMINATION PANEL RELOCATED TO THIS LOCATION. RECONNECT EXISTING FIBER OPTIC CABLES. SEE NETWORKING DEMOLITION AND NEW WORK DIAGRAMS FOR ADDITIONAL INFORMATION.
33. (3)#12 AND (1)#12 GND IN 3/4"C TO NEW 20A/3P CIRCUIT BREAKER INSTALLED IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
34. (1) CAT 6 4-PR UTP + (2)#14 (HMI COMMUNICATIONS, HMI POWER) IN 1"C TO NEW SCADA UNIT RTU-SPB.
35. (3)#12 AND (1)#12 GND IN 3/4"C TO NEW 20A/3P CIRCUIT BREAKER INSTALLED IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
36. (10)#14 AND (1)#14 GND (CONTROL CONDUCTORS) TO NEW SCADA UNIT RTU-SPB.
37. (3)#8 AND (1)#10 GND IN 3/4"C TO EXISTING 50A/3P AUGER CONVEYOR CIRCUIT BREAKER IN EXISTING MOTOR CONTROL CENTER MCC-SPB.
38. (3)#12 AND (1)#12 GND IN 3/4"C TO RESPECTIVE CENTRIFUGE MAIN CONTROL PANEL.
39. (2)#12 AND (1)#12 GND IN 3/4"C TO EXISTING SPARE 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD LPSPB.
40. CONNECT TO NEAREST UNSWITCHED 120V LIGHTING CIRCUIT.
41. SCADA WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1"C TO NEW SCADA UNIT RTU-SPB.
42. SECURITY CAMERA SYSTEM WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1"C TO NEW SECURITY CAMERA NETWORK PANEL ON FIRST FLOOR.
43. EXISTING PANELBOARD LPSPB (150A MLO, 208/120V, 3-PHASE, 4-WIRE).
44. (2)#12 AND (1)#12 GND IN 3/4"C TO NEW 15A/2P CIRCUIT BREAKER INSTALLED IN EXISTING PANELBOARD LPSPB.
45. (2)#12 AND (1)#12 GND IN 3/4"C TO INDOOR UNIT FCU-1.
46. 30A/240V/1-PHASE NON-FUSED DISCONNECT (NEMA 4X ENCLOSED).
47. LFUCG CITY NETWORK WORKSTATION OUTLET. PROVIDE (1) CAT 6 UTP CABLE (ETHERNET COMMUNICATIONS) IN 1"C TO THE CITY NETWORK ETHERNET SWITCH IN THE MAINTENANCE OFFICE ON THE FIRST FLOOR.



**SOLIDS HANDLING BUILDING SECOND FLOOR
ELECTRICAL NEW WORK PLAN (ALTERNATIVE NO. 2)**

SCALE: 3/16"=1'-0"



PLOTTED BY: T.Cantrell

PRINTED: 8/10/2021 @ 3:02PM

FILE NAME: G:\816\WH WWTP Solids\Working Drawings\AutoCAD\816-E-01-106.dwg

GRV PROJECT NO. 4816
CLIENT PROJECT NO. XXXX

ALL RIGHTS RESERVED.
THIS DOCUMENT IS THE PROPERTY OF
GEOGRAPHIC DESIGN GROUP, INC.
IT IS TO BE USED ONLY FOR THE PROJECT
IDENTIFIED HEREIN. NO REPRODUCTION OR
TRANSMISSION OF THIS DOCUMENT IS
PERMITTED WITHOUT WRITTEN PERMISSION.

engineering architecture geospatial
www.gwinc.com

**SOLIDS HANDLING BUILDING
SECOND FLOOR NEW WORK (ALT. NO. 2)**
WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

NO.	DATE	DESCRIPTION	DESIGNED		DRAWN		REVIEWED		APPROVED	
			BY	DATE	BY	DATE	BY	DATE	BY	DATE
1	8/10/21	ADDENDUM NO. 4								

SCALE CHECK: _____ THIS MARK SHOULD MEASURE EXACTLY WHEN PLOTTED

DATE: JULY, 2021
SCALE: AS SHOWN
SHEET NO.

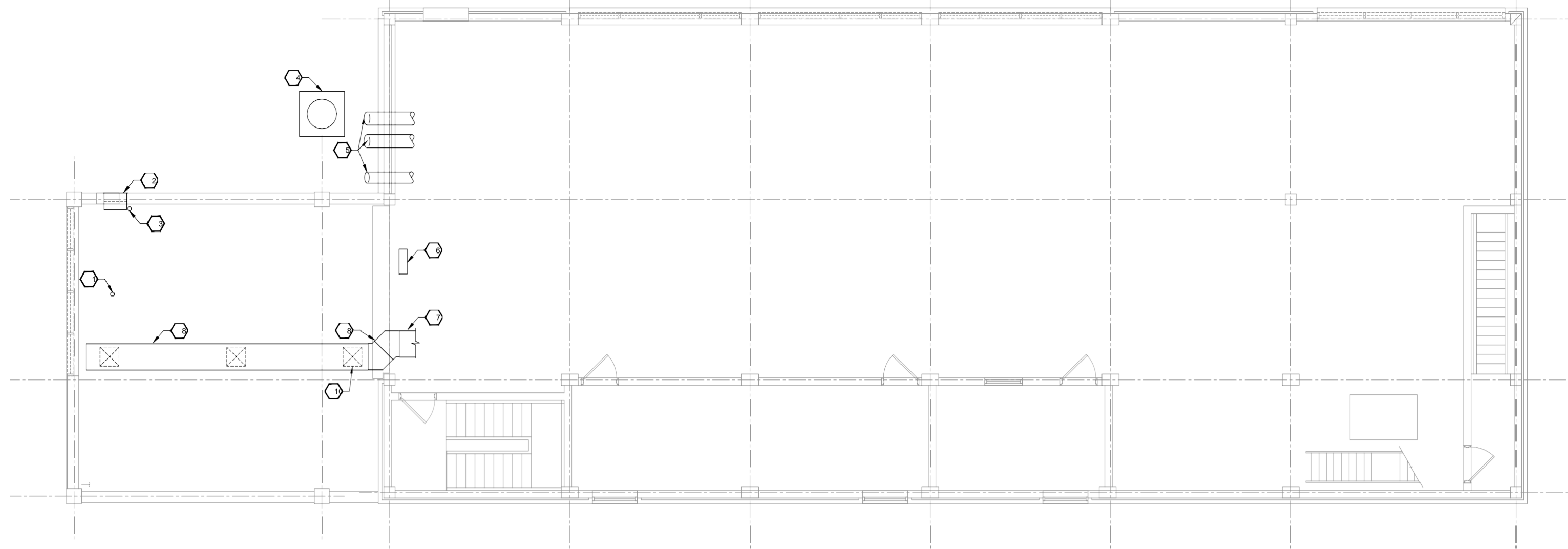
E-01-106

BID DOCUMENTS

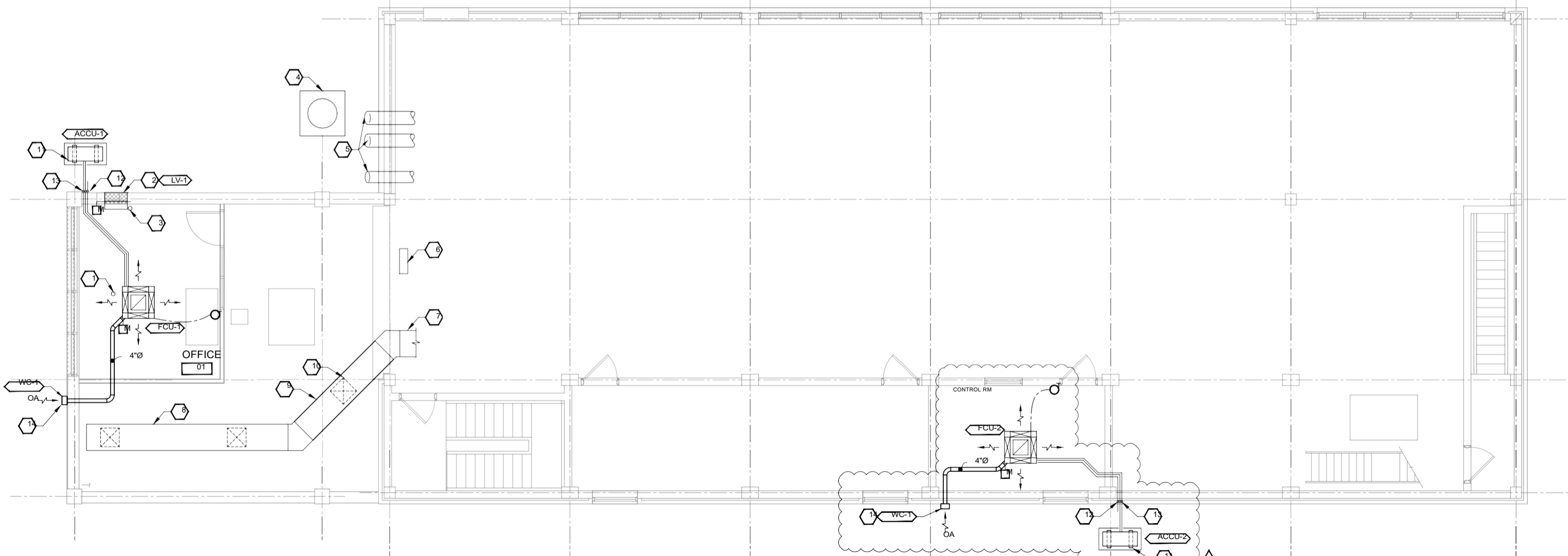
PLOTTED BY: jkelly

PRINTED: 8/4/2021 @ 1:40PM

FILE NAME: G:\816\WH WWTP Solids\Working Drawings\AutoCAD\816-H-01-101.dwg



1 SOLIDS HANDLING BUILDING
SECOND FLOOR DEMO PLAN - HVAC
SCALE: 3/16"=1'-0"



2 SOLIDS HANDLING BUILDING
SECOND FLOOR NEW WORK PLAN - HVAC
SCALE: 3/16"=1'-0"

GENERAL SHEET NOTES

- LOCATIONS OF EXISTING HVAC EQUIPMENT, FIXTURES AND DUCTWORK ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
- SEE SHEET H-01-001 FOR OTHER GENERAL NOTES.

SHEET KEYNOTES

- EXISTING FLOOR DRAIN TO BE REMOVED BENEATH SURFACE OF FLOOR AND CAPPED OFF. PATCH FLOOR TO MATCH EXISTING.
- EXISTING LOUVER TO BE ABANDONED IN PLACE. SEE ARCH FOR MORE INFORMATION. INSTALL LOUVER LV-1 APPROXIMATELY 10-11 FEET A.F.F. IN THE SPACE ABOVE THE GLASS WALL.
- EXISTING 4" TO REMAIN.
- EXISTING OUTDOOR UNIT TO REMAIN.
- EXISTING PVC VENTS TO REMAIN.
- EXISTING UNIT HEATER TO REMAIN.
- EXISTING DUCTWORK TO REMAIN.
- EXISTING DUCTWORK TO BE DISCONNECTED AND RELOCATED AS SHOWN ON NEW WORK PLAN. REUSE AS MUCH OF EXISTING DUCTWORK AS POSSIBLE AND MODIFY AS REQUIRED.
- CONNECT NEW DUCT TO EXISTING AND OFFSET TO AVOID NEW WORK. SIZE NEW DUCT TO MATCH EXISTING.
- REMOVE EXISTING TAKE-OFF FROM EXISTING DUCTWORK AND REUSE IN NEW.
- NEW OUTDOOR UNIT ON EQUIPMENT PAD. SIZE PAD TO BE MINIMUM OF 6" LARGER THAN EQUIPMENT ALL AROUND.
- NEW CONDENSATE DRAIN FROM INDOOR UNIT DOWN TO FRENCH DRAIN BELOW. SECURE TO STRUCTURE.
- INSULATED AND JACKETED REFRIGERANT LINES DOWN TO UNIT BELOW. SIZE PER MANUFACTURER'S RECOMMENDATION AND SECURE PIPING TO STRUCTURE.
- WALL CAP (WC-1) APPROXIMATELY 10 FEET A.F.F. TO BOTTOM OF WC-1.

GRW PROJECT NO. 4816
 CLIENT PROJECT NO. XXXX
 THIS DOCUMENT IS THE PROPERTY OF GEOSPATIAL ENGINEERING AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR CONSTRUCTION OF ANY PROJECT WITHOUT WRITTEN PERMISSION.
 engineering | architecture | geospatial
 www.grwinc.com

**SOLIDS HANDLING BUILDING
SECOND FLOOR PLANS - HVAC**
 WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
 LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

NO.	DATE	BY	REVISIONS	DESIGNED	APPROVED
1	8/3/21	JJK	ADDENDUM # 4	AAT	AAT
				JJK	JJK
				AAT	AAT
				AAT	AAT

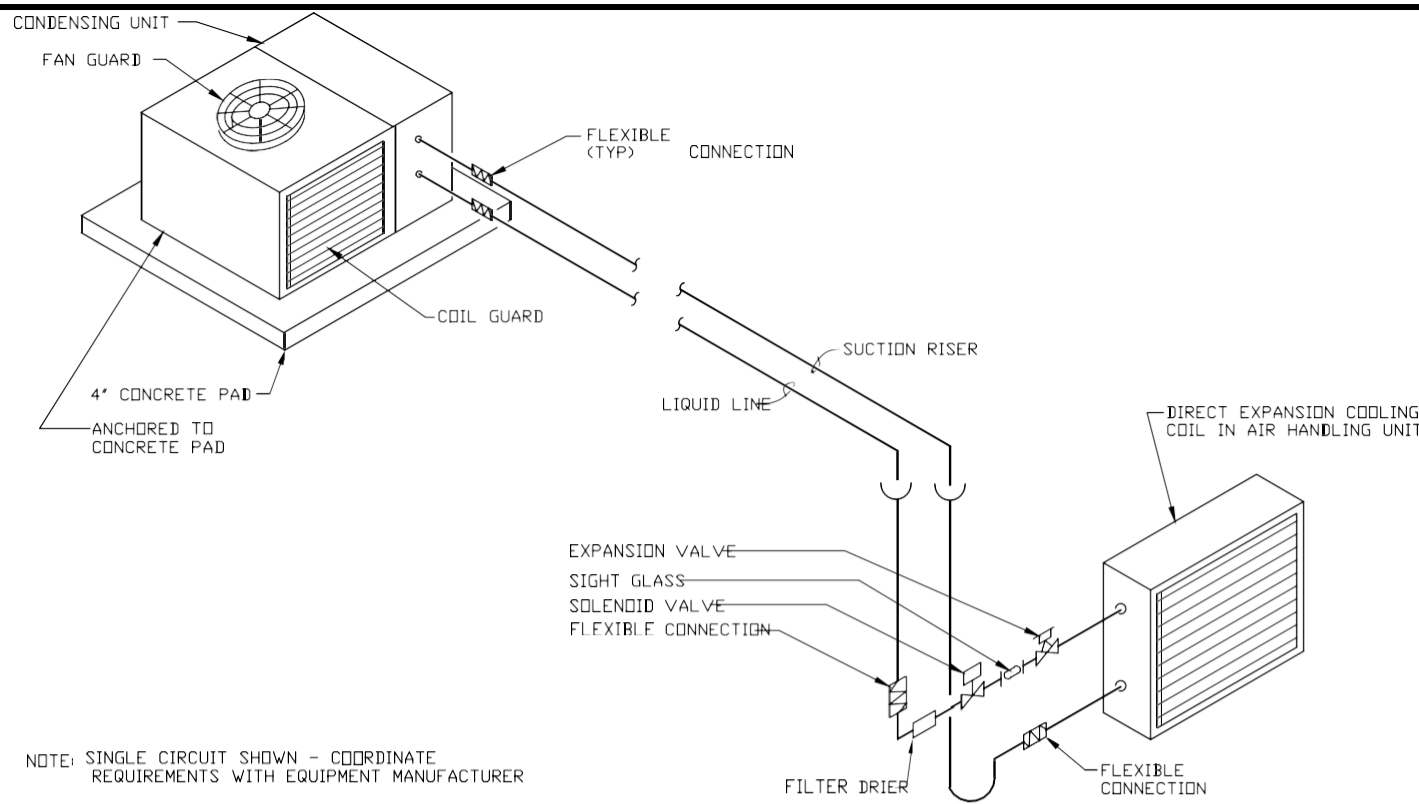
SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: JULY, 2021
SCALE: 1/8"=1'-0"
SHEET NO. H-01-101

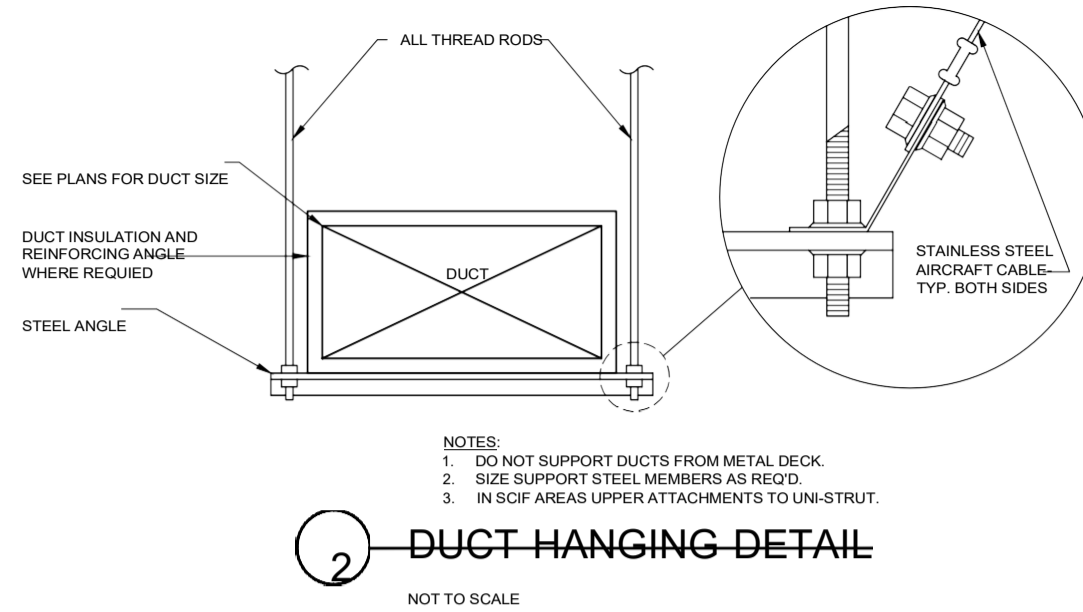
BID DOCUMENTS

PRINTED: 8/4/2021 @ 1:49PM

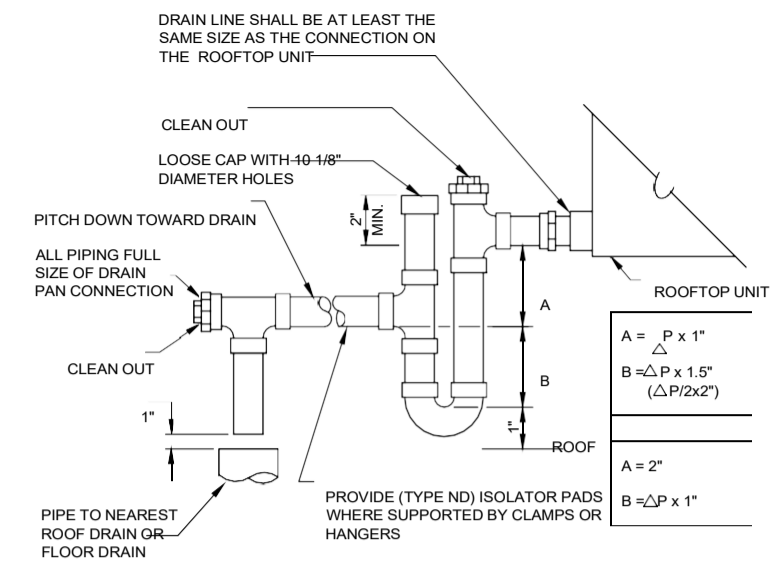
FILE NAME: G:\4816-VH\WVTP Solids\Working Drawings\AutoCAD\4816-H-01-501.dwg



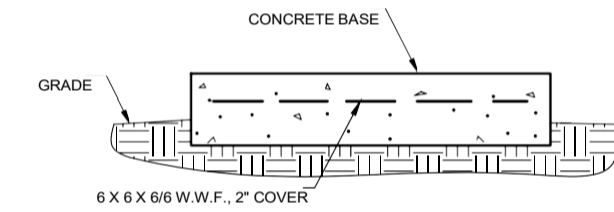
1 PIPING SCHEMATIC FOR CONDENSING UNIT DETAIL
NOT TO SCALE



2 DUCT HANGING DETAIL
NOT TO SCALE

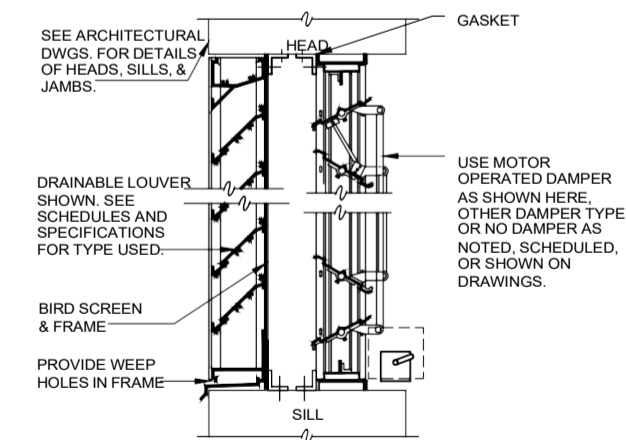


3 HVAC UNIT DRAIN TRAP DETAIL
NOT TO SCALE



NOTE:
1. CONCRETE BASE SHALL BE 4\"/>

4 TYPICAL CONCRETE PAD
NOT TO SCALE



NOTES:
1. PITCH SLEEVE TOWARD LOUVER. PROVIDE DRAIN IN LOW POINT IN DUCT. TERMINATE DRAIN LINES NEAR FLOOR DRAIN.

5 LOUVER AND DAMPER DETAIL
NOT TO SCALE

DUCTLESS SPLIT SYSTEM AIR COOLED CONDENSING UNITS										
MARK	SERVICE	TOTAL CAPACITY (MBH)	AMBIENT AIR TEMP (F)	SUCTION TEMP F	VOLTS	ELECTRICAL				BASIS OF DESIGN: EMI & DAIKIN
						PH	FLA	MCA	MFS	
ACCU-1	FCU-1	12.0	95	45	208/230	1	10	12	15	EMI - SZ1H12D
ACCU-2	FCU-2	24.0	95	45	208/230	1	14	16.5	20	DAIKIN - RZQ24TAVJUA

NOTES:
1. SINGLE POINT ELECTRICAL CONNECTION WITH INTEGRAL CONTROLS
2. SPLIT UNITS WITH R-410A
3. SCROLL COMPRESSOR(S)

LOUVERS											
MARK	SERVICE	LOCATION	FLOW RATE CFM	VELOCITY FPM	FREE AREA SF	PRESS LOSS IN WG	DIMENSIONS WxHxD - IN	TYPE	MATERIAL	FINISH	NOTES
LV-1	RELIEF EXHAUST	SOLIDS HANDLING 2ND FLOOR	1000	750	1.33	0.10	24x24x6	FIXED	FRP	RESIN	1,3,4,6,8,10

- NOTES:
- BIRD SCREEN PVC
 - INSECT SCREEN PVC
 - LOUVER WITH MOTORIZED DAMPER
 - DAMPER ACTUATOR
 - INTAKE
 - EXHAUST
 - MANUFACTURER'S PREFABRICATED INSULATED ROOF CURB
 - FIELD VERIFY DIMENSIONS TO MATCH ARCHITECTURAL OPENINGS
 - MOTORIZED FRP DAMPER
 - COLOR TO BE SELECTED WITH OWNER & ARCH
 - BLANKED OFF ANY UNUSED PORTION
 - BRONZ-GLOW SPC CLEAR F-860 COATED

DUCTLESS SPLIT SYSTEM FAN COIL UNIT SCHEDULE

MARK	SERVICE	LOCATION	CFM	FCU/AHU TYPE	OA CFM	DX COOLING COIL							HEAT PUMP HEAT				ELECTRICAL				ACCESSORIES	BASIS OF DESIGN: EMI & DAIKIN		
						TOTAL MBH	SENS MBH	EAT F db	EAT F wb	LAT F db	LAT F wb	MIN SEER	EAT F db	LAT F db	MIN HSPF	CAP MBH	CAP KW	VOLTS	PH	FLA Amps			MCA Amps	MFS Amps
FCU-1	ACCU-1	OFFICE 2ND FLOOR	380	CASSETTE	40	11.7	9.1	77	64	55	54.5	13.0	70	95	7.7	10.5	3.1	208/230	1	0.80	1.00	15	2-4, 6-8, 13-15	EMI - CASH12D
FCU-2	ACCU-2	CONTROL RM 2ND FLOOR	750	CASSETTE	40	23.6	19.6	82	65	58	56	13.0	70	75	7.7	4.4	1.3	208/230	1	0.70	1.00	15	2-4, 6-8, 13-15	DAIKIN FCQ24TAVJU

- SYSTEM TYPE: SPLIT SYSTEM HEAT PUMP WITH R-410A
- ACCESSORIES:
- LOW AMBIENT KIT (0 F)
 - SINGLE POINT ELECT CONNECTION
 - CLEANABLE REUSABLE FILTER (2 SPARES)
 - CONTROL PANEL WIRING c/w PROG T-STAT
 - INTEGRAL HUMIDIFIER c/w RH CONTROL
 - OA VENT KIT c/w KNOCKOUTS & OA DAMPER
 - ANTI-SHORT CYCLE PROTECTION
 - FREEZE PROTECTION
 - SECONDARY CONDENSATE DRAIN PAN c/w CUTOFF SWITCH
 - VERTICAL SUBBASE ASSEMBLY
 - FLUSH CONCEALED FLOOR MTD
 - PLENUM MIXING BOX
 - CONDENSATE PUMP
 - INTEGRAL HEAT PUMP
 - SUPPLY AND RETURN GRILLES

GRW PROJECT NO. 4816
CLIENT PROJECT NO. XXXX
engineering | architecture | geospatial
www.grwinc.com

DETAILS AND SCHEDULES - HVAC
WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

NO.	DATE	BY	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
1	8/3/21	JJK	ADDENDUM #4	AAT	JJK	AAT	AAT

DATE: JULY, 2021
SCALE: NONE
SHEET NO. H-01-501

BID DOCUMENTS



M-01-302

GENERAL NOTES:

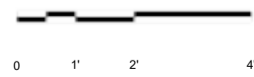
- ALL SLUDGE PIPING SHALL BE DI PIPE PER SPEC UNLESS OTHERWISE NOTED. ALL POLYMER AND WATER PIPING SHALL BE SCH 80 PVC PER SPEC UNLESS NOTED OTHERWISE. ALL DRAIN PIPING SHALL BE SCH 40 PVC PER SPEC UNLESS NOTED OTHERWISE.
- INTERIOR PIPE SUPPORTS NOT SHOWN FOR CLARITY. REFER TO SPECIFICATIONS FOR PIPE SUPPORT REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIT-UP OF ALL PIPE, FITTINGS, VALVES, AND EQUIPMENT.
- NOT ALL EXISTING PIPING HAS BEEN INCLUDED IN DRAWING. NEW PIPING SHOULD MAINTAIN SAME ELEVATION AS EXISTING. ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS.
- FLOOR PENETRATIONS SHALL BE CORE DRILLED. INSTALL LINK SEAL, NIS GROUT ON TOP SIDE AND S/S PIPE FRICTION/RISER CLAMP (TYP)

SHEET KEYNOTES:

- NEW 4" DI PIPE
- NEW 4" 45 DI BEND
- NEW 4" 90 DI BEND
- NEW 4" BLIND FLANGE
- NOT USED
- NEW 6" SCH 40 PVC PIPE
- NEW 4x6x6" SCH 40 PVC TEE, BELOW
- NEW 6x6x6" SCH 40 PVC WYE, TIE TO EXISTING DRAIN
- NEW 10x6" SCH 40 PVC RDCR
- NEW 10" SCH 40 PVC 90 BEND
- NEW 4" SCH 40 PVC PIPE
- NEW 4" SCH 40 PVC 90 BEND
- NEW 4" SCH 40 PVC 45 BEND
- NEW 6" SCH 40 PVC 45 BEND
- NEW SCH 80 1" PVC PIPE
- CONNECT TO EXISTING PLANT WATER PIPE
- NEW 1 1/2" SCH 80 PVC PIPE
- ABRASIVELY CLEAN FLOOR, APPLY CONCRETE BONDING COMPOUND, AND PLACE 2" GROUT PADS WITH GAPS FOR POLYMER PIPING. PADS ON EITHER END SHALL BE RAMPED AND PAINTED YELLOW
- NEW POLYMER UNIT
- POLYMER TOTE (TYP, NOT SUPPLIED BY CONTRACTOR)
- NEW SPILL CONTAINMENT PALLET (DENIOS 385 GALLON CAPACITY IBC STAINLESS STEEL SUMP/GRATING)
- TEE WITH FLEXIBLE CONNECTION TUBING, TUBING SHALL BE LONG ENOUGH TO REACH CONNECTION AT FRONT OF TOTE. END OF TUBING SHALL HAVE CHECK VALVE, PLUG VALVE, & CAMLOCK AS REQUIRED FOR TOTE CONNECTION
- NEW HAND RAIL. SEE DETAIL SHEET
- NEW FLOOR COATING IN POLYMER ROOM AND HALLWAYS

PLAN

SCALE: 1/2"=1'-0"



GRW PROJECT NO. 4816
 CLIENT PROJECT NO. XXXX
 ALL RIGHTS RESERVED.
 THIS DOCUMENT IS THE PROPERTY OF
 THE CONSULTING ENGINEER AND SHALL
 BE REPRODUCED IN WHOLE OR IN PART
 WITHOUT THE WRITTEN PERMISSION
 OF THE CONSULTING ENGINEER.



**FIRST FLOOR
 NEW PLAN - ALTERNATIVE 1
 WEST HICKMAN WWP DEWATERING
 IMPROVEMENTS LEXINGTON-FAYETTE URBAN**

REVISIONS	DATE	BY	DESIGNED
ADDENDUM NO. 4		MSW	BMG
			BMG
			JLH
			JLH

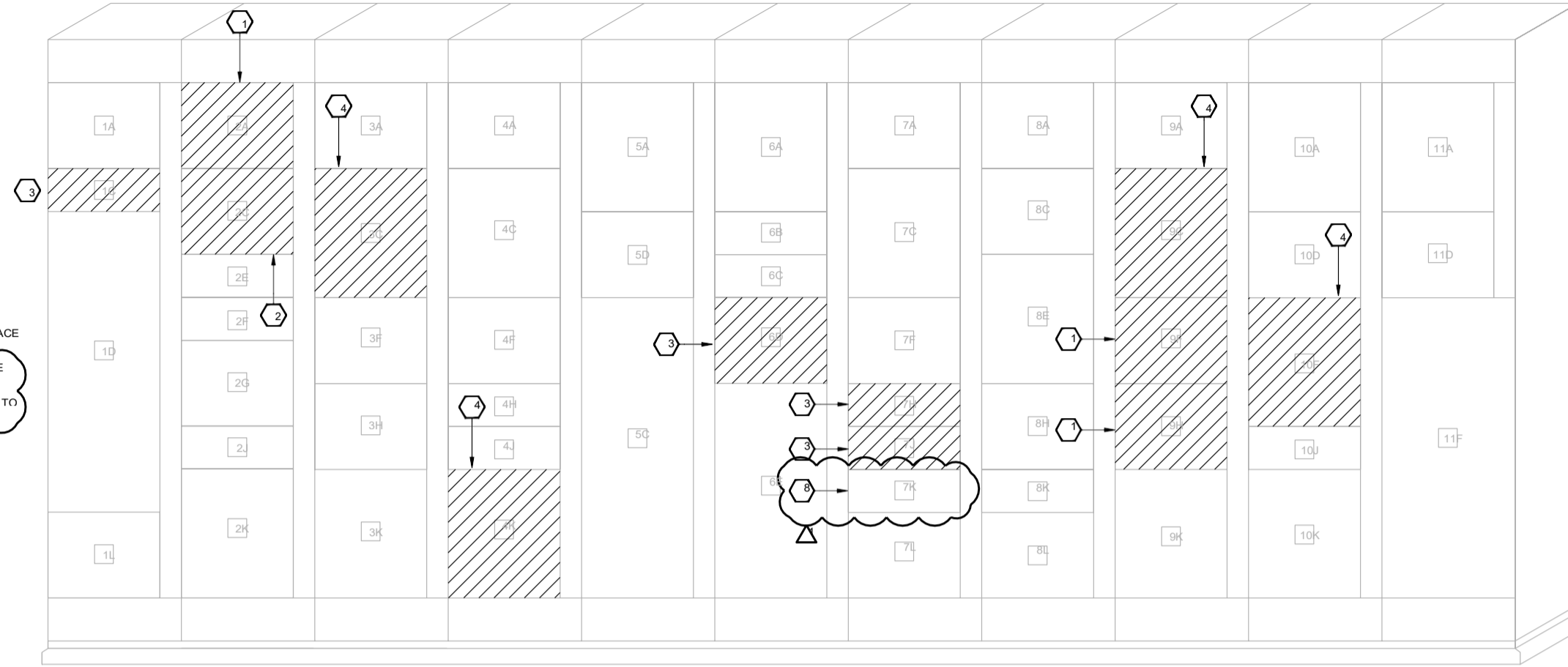
NO. 1
 DATE: JULY, 2021
 SCALE: 1/2" = 1'
M-01-103

NOTES:

- THE EXISTING MOTOR CONTROL CENTER IS AN ALLEN BRADLEY CENTERLINE 2100 SERIES MCC. ALL MODIFICATIONS TO THE EXISTING MCC SHALL BE BY THE ORIGINAL EQUIPMENT MANUFACTURER SO AS TO NOT VOID THE UL 845 LISTING.
- WORK SHOWN IN LIGHT PEN (SHADED) IS EXISTING. WORK SHOWN IN BOLD PEN IS NEW.

SHEET KEYNOTES:

- EXISTING SPARE STARTER MCC BUCKET TO BE REMOVED.
- EXISTING EMPTY MCC BUCKET TO BE REMOVED.
- EXISTING FEEDER BREAKER TO BE RE-LABELLED AS SPARE.
- EXISTING STARTER TO BE RE-LABELLED AS SPARE.
- INSTALL NEW 300A/3P PLUG-IN CIRCUIT BREAKER BUCKET IN AVAILABLE SPACE IN MCC FOR NEW CENTRIFUGE NO. 1.
- INSTALL NEW 300A/3P PLUG-IN CIRCUIT BREAKER BUCKET IN AVAILABLE SPACE IN MCC FOR NEW CENTRIFUGE NO. 2.
- INSTALL NEW 20A/3P PLUG-IN CIRCUIT BREAKER IN AVAILABLE SPACE IN MCC FOR NEW MAIN OUTPUT CONVEYOR CONTROL PANEL.
- EXISTING 50A/3P FEEDER BREAKER FOR AUGER CONVEYOR TO BE REUSED.
- CONNECT NEW AUGER CONTROL PANEL POWER SUPPLY CIRCUIT TO EXISTING 50A/3P AUGER CONVEYOR FEEDER BREAKER.



**EXISTING MOTOR CONTROL CENTER (MCC-SPB)
DEMOLITION PLAN - ALTERNATIVE NO. 1**

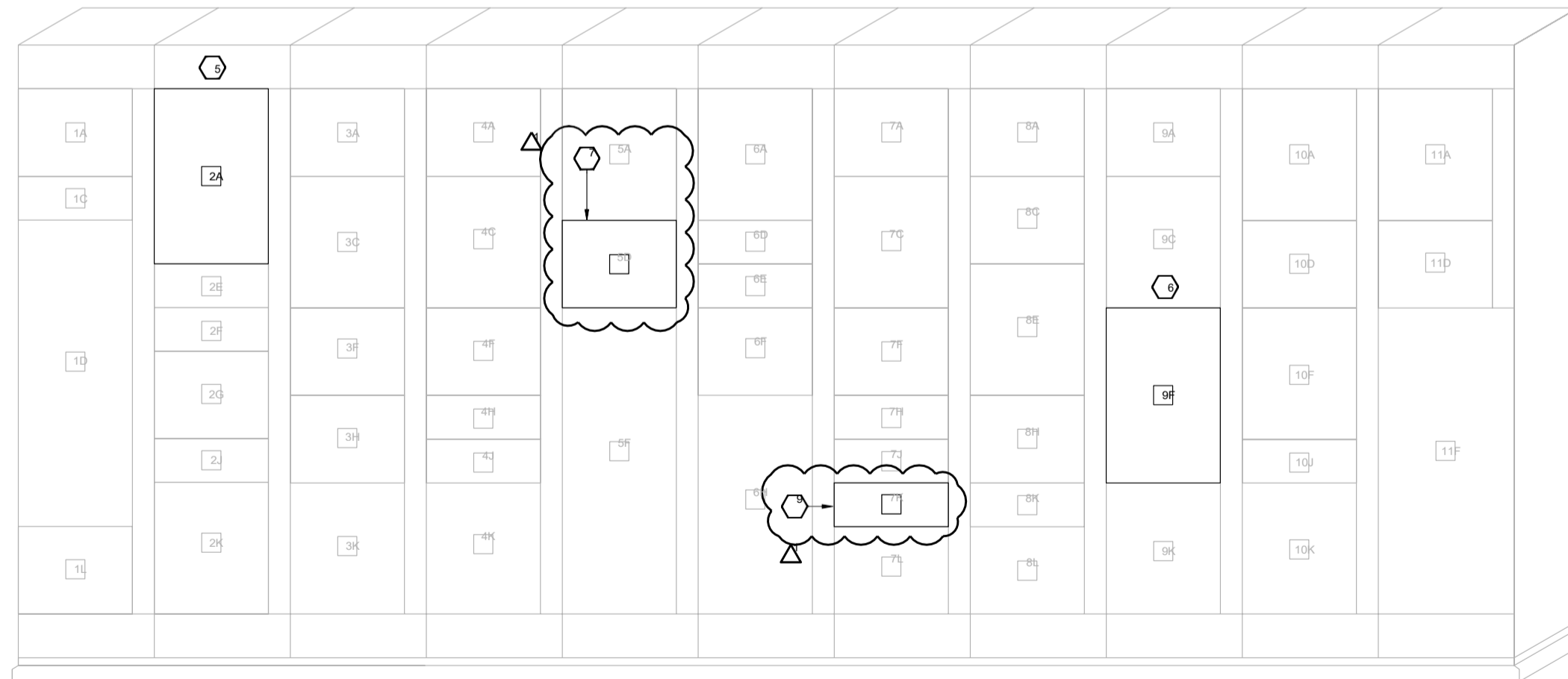
1 NOT TO SCALE

EXISTING MOTOR CONTROL CENTER MCC-SPB SCHEDULE:

- 1A - BOILER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 1C - BELT FILTER PRESS NO. 2 BFP2 (FEEDER BREAKER)
- 1D - 480/277V 3-PHASE POWER PANEL (FEEDER BREAKER)
- 1L - EMPTY CUBICLE
- 2A - SPARE (10HP FVNR STARTER)
- 2C - EMPTY CUBICLE
- 2E - PANEL PSPB XFMR (FEEDER BREAKER)
- 2F - HOT WATER HEATER
- 2G - UPS
- 2J - SOLIDS PROCESS BOILER #1
- 2K - DEVICENET POWER SUPPLY
- 3A - SPARE (3HP FVNR STARTER)
- 3C - POLYMER METERING PUMP NO. 3 (2HP FVNR STARTER)
- 3F - ROADWAY LIGHTING CONTACTOR
- 3H - ROADWAY LIGHTING CONTACTOR
- 3K - ELECTRICAL ROOM PANEL PP1 XFMR (FEEDER BREAKER)
- 4A - PLANT HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4C - DEVICENET COMM. MODULE
- 4F - BLDG HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4H - CHEMICAL FEED PANEL (FEEDER BREAKER)
- 4J - COMPOST BLDG POWER PANEL PP1 (FEEDER BREAKER)
- 4K - POLYMER METERING PUMP NO. 4 (2HP FVNR STARTER)
- 5A - SPD
- 5D - EMPTY CUBICLE
- 5F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-A
- 6A - POWER METER
- 6D - SOLIDS PROCESS SLUDGE CONVEYOR (FEEDER BREAKER)
- 6E - ROLL UP DOOR (FEEDER BREAKER)
- 6F - EMPTY CUBICLE
- 6H - 800AF/800AT TIE CIRCUIT BREAKER
- 7A - EMPTY CUBICLE
- 7C - DEWATERING SCRUBBER (FEEDER BREAKER)
- 7F - CHEMICAL ROOM SUMP PUMP SP-1 (2HP FVNR STARTER)
- 7H - BELT FILTER PRESS NO. 3 BFP3 (FEEDER BREAKER)
- 7J - BELT FILTER PRESS NO. 1 BFP1 (FEEDER BREAKER)
- 7K - AUGER CONVEYOR CONTROL PANEL (FEEDER BREAKER)
- 7L - SOLIDS AIR COMPRESSOR NO. 1 (5HP FVNR STARTER)
- 8A - BOILER CIRC PUMP NO. 2 (2HP FVNR STARTER)
- 8C - PLANT HOT WATER CIRC PUMP NO. 2 (7.5HP FVNR STARTER)
- 8E - DEVICENET COMM MODULE
- 8H - BLDG HOT WATER CIRC PUMP NO. 2 (1HP FVNR STARTER)
- 8K - PANEL LPSPB XFMR (FEEDER BREAKER)
- 8L - SOLIDS AIR COMPRESSOR NO. 2 (5HP FVNR STARTER)
- 9A - EMPTY CUBICLE
- 9C - POLYMER METERING PUMP NO. 2 (2HP FVNR STARTER)
- 9F - SPARE (3HP FVNR STARTER)
- 9H - SPARE (10HP FVNR STARTER)
- 9K - ELECTRICAL SHOP POWER PANEL XFMR (FEEDER BREAKER)
- 10A - POWER METER
- 10D - UPS
- 10F - POLYMER METERING PUMP NO. 1 (2HP FVNR STARTER)
- 10J - SOLIDS PROCESS BOILER #2 (FEEDER BREAKER)
- 10K - DEVICENET POWER SUPPLY
- 11A - SPD
- 11D - EMPTY CUBICLE
- 11F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-B

EXISTING MOTOR CONTROL CENTER MCC-SPB SCHEDULE (MODIFIED):

- 1A - BOILER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 1C - SPARE (FEEDER BREAKER)
- 1D - 480/277V 3-PHASE POWER PANEL (FEEDER BREAKER)
- 1L - EMPTY CUBICLE
- 2A - CENTRIFUGE NO. 1 (FEEDER BREAKER)
- 2C - EMPTY CUBICLE
- 2D - EMPTY CUBICLE
- 2E - PANEL PSPB XFMR (FEEDER BREAKER)
- 2F - HOT WATER HEATER
- 2S - UPS
- 2J - SOLIDS PROCESS BOILER #1
- 2K - DEVICENET POWER SUPPLY
- 3A - SPARE (3HP FVNR STARTER)
- 3C - SPARE (2HP FVNR STARTER)
- 3F - ROADWAY LIGHTING CONTACTOR
- 3H - ROADWAY LIGHTING CONTACTOR
- 3K - ELECTRICAL ROOM PANEL PP1 XFMR (FEEDER BREAKER)
- 4A - PLANT HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4C - DEVICENET COMM. MODULE
- 4F - BLDG HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4H - CHEMICAL FEED PANEL (FEEDER BREAKER)
- 4J - COMPOST BLDG POWER PANEL PP1 (FEEDER BREAKER)
- 4K - SPARE (2HP FVNR STARTER)
- 5A - SPD
- 5D - EMPTY CUBICLE
- 5F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-A
- 6A - POWER METER
- 6D - SOLIDS PROCESS SLUDGE CONVEYOR (FEEDER BREAKER)
- 6E - ROLL UP DOOR (FEEDER BREAKER)
- 6F - EMPTY CUBICLE
- 6H - 800AF/800AT TIE CIRCUIT BREAKER
- 7A - EMPTY CUBICLE
- 7C - DEWATERING SCRUBBER (FEEDER BREAKER)
- 7F - CHEMICAL ROOM SUMP PUMP SP-1 (2HP FVNR STARTER)
- 7H - SPARE (FEEDER BREAKER)
- 7J - SPARE (FEEDER BREAKER)
- 7K - AUGER CONVEYOR CONTROL PANEL (FEEDER BREAKER)
- 7L - SOLIDS AIR COMPRESSOR NO. 1 (5HP FVNR STARTER)
- 8A - BOILER CIRC PUMP NO. 2 (2HP FVNR STARTER)
- 8C - PLANT HOT WATER CIRC PUMP NO. 2 (7.5HP FVNR STARTER)
- 8E - DEVICENET COMM MODULE
- 8H - BLDG HOT WATER CIRC PUMP NO. 2 (1HP FVNR STARTER)
- 8K - PANEL LPSPB XFMR (FEEDER BREAKER)
- 8L - SOLIDS AIR COMPRESSOR NO. 2 (5HP FVNR STARTER)
- 9A - EMPTY CUBICLE
- 9C - SPARE (2HP FVNR STARTER)
- 9F - CENTRIFUGE NO. 2 (FEEDER BREAKER)
- 9H - SPARE (10HP FVNR STARTER)
- 9K - ELECTRICAL SHOP POWER PANEL XFMR (FEEDER BREAKER)
- 10A - POWER METER
- 10D - UPS
- 10F - SPARE (2HP FVNR STARTER)
- 10J - SOLIDS PROCESS BOILER #2 (FEEDER BREAKER)
- 10K - DEVICENET POWER SUPPLY
- 11A - SPD
- 11D - EMPTY CUBICLE
- 11F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-B



**EXISTING MOTOR CONTROL CENTER (MCC-SPB)
NEW WORK PLAN - ALTERNATIVE NO. 1**

2 NOT TO SCALE

BID DOCUMENTS
 ELECTRICAL
 MCC MODIFICATIONS (1 OF 2)
 WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
 LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
 www.gwinc.com
 engineering architecture geospatial

DESIGNED:	CTC	DATE:	8/10/2021
DRAWN:	STAFF	SCALE:	NTS
REVIEWED:	CTC	SHEET NO.:	E-00-601
APPROVED:	CTC		

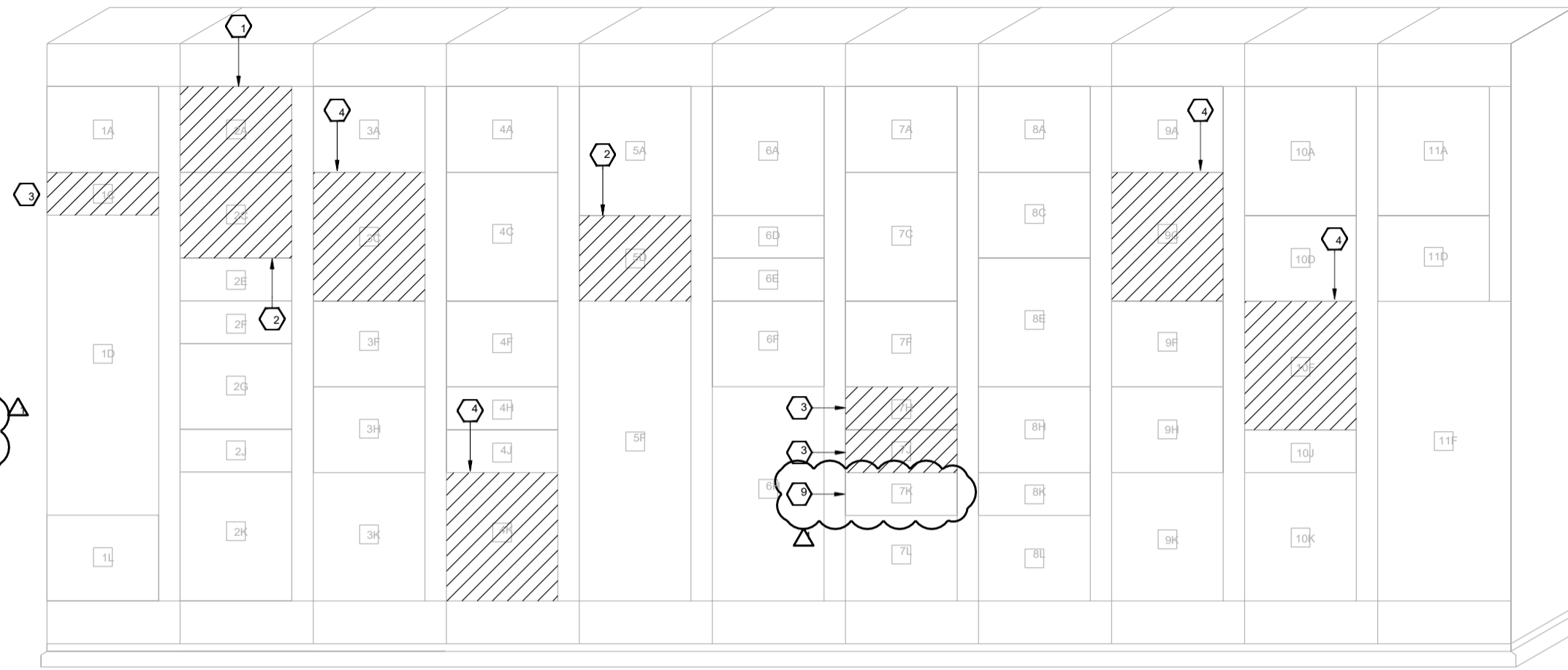
GRW PROJECT NO. 4816
 CLIENT PROJECT NO. XXXX
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GW INC. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT BE REPRODUCED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION.

NOTES:

- THE EXISTING MOTOR CONTROL CENTER IS AN ALLEN BRADLEY CENTERLINE 2100 SERIES MCC. ALL MODIFICATIONS TO THE EXISTING MCC SHALL BE BY THE ORIGINAL EQUIPMENT MANUFACTURER SO AS TO NOT VOID THE UL 845 LISTING.
- WORK SHOWN IN LIGHT PEN (SHADED) IS EXISTING. WORK SHOWN IN BOLD PEN IS NEW.

SHEET KEYNOTES:

- EXISTING SPARE STARTER MCC BUCKET TO BE REMOVED.
- EXISTING EMPTY MCC BUCKET TO BE REMOVED.
- EXISTING FEEDER BREAKER TO BE RE-LABELLED AS SPARE.
- EXISTING STARTER TO BE RE-LABELLED AS SPARE.
- INSTALL NEW 200A/3P PLUG-IN CIRCUIT BREAKER BUCKET IN AVAILABLE SPACE IN MCC FOR NEW CENTRIFUGE NO. 1.
- INSTALL NEW 200A/3P PLUG-IN CIRCUIT BREAKER BUCKET IN AVAILABLE SPACE IN MCC FOR NEW CENTRIFUGE NO. 2.
- INSTALL NEW 200A/3P PLUG-IN CIRCUIT BREAKER BUCKET IN AVAILABLE SPACE IN MCC FOR NEW CENTRIFUGE NO. 3.
- INSTALL NEW 200A/3P PLUG-IN CIRCUIT BREAKER IN AVAILABLE SPACE IN MCC FOR NEW MAIN OUTPUT CONVEYOR CONTROL PANEL.
- EXISTING 50A/3P FEEDER BREAKER FOR AUGER CONVEYOR TO BE REUSED.
- CONNECT NEW AUGER CONTROL PANEL POWER SUPPLY CIRCUIT TO EXISTING 50A/3P AUGER CONVEYOR FEEDER BREAKER.



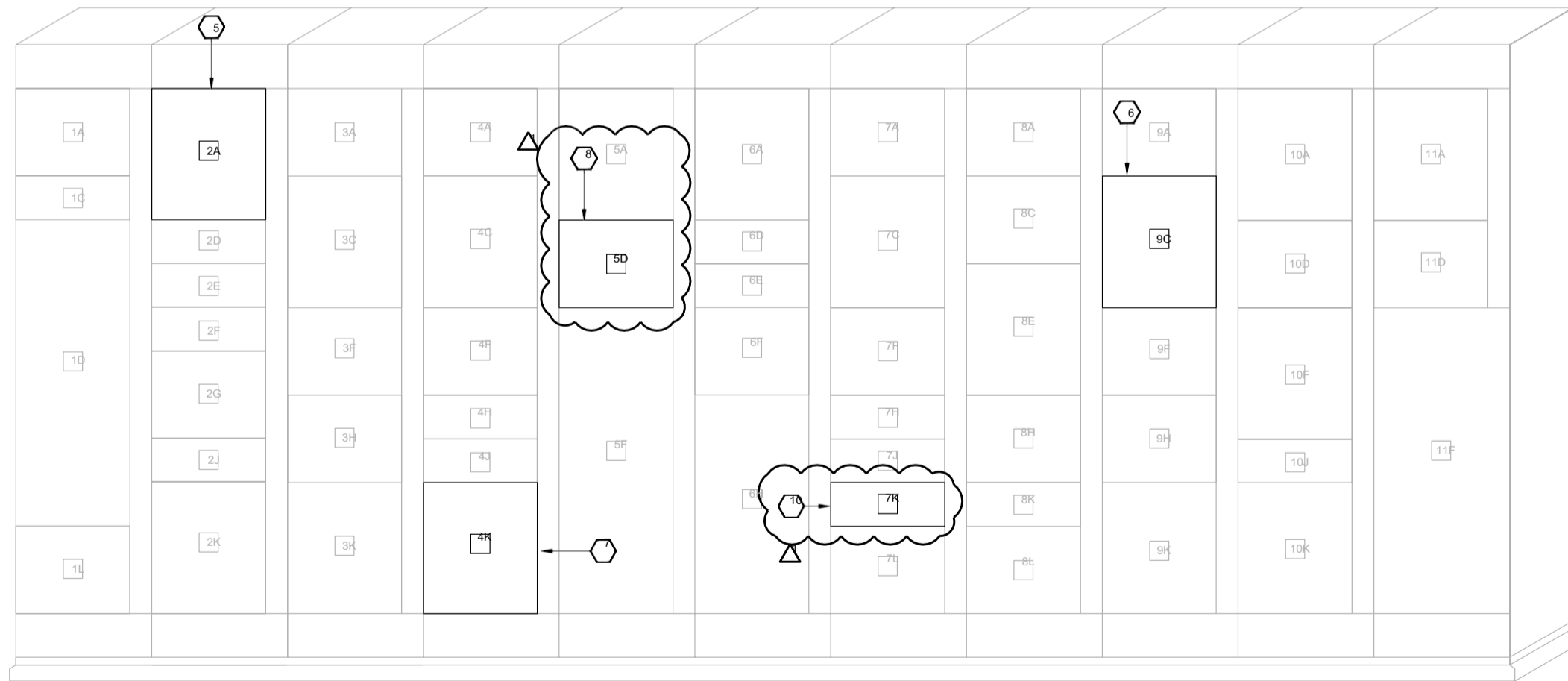
1 EXISTING MOTOR CONTROL CENTER (MCC-SPB)
DEMOLITION PLAN - ALTERNATIVE NO. 2
NOT TO SCALE

EXISTING MOTOR CONTROL CENTER MCC-SPB SCHEDULE:

- 1A - BOILER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 1C - BELT FILTER PRESS NO. 2 BFP2 (FEEDER BREAKER)
- 1D - 480/277V 3-PHASE POWER PANEL (FEEDER BREAKER)
- 1L - EMPTY CUBICLE
- 2A - SPARE (10HP FVNR STARTER)
- 2C - EMPTY CUBICLE
- 2E - PANEL PSPB XFMR (FEEDER BREAKER)
- 2F - HOT WATER HEATER
- 2G - UPS
- 2J - SOLIDS PROCESS BOILER #1
- 2K - DEVICENET POWER SUPPLY
- 3A - SPARE (3HP FVNR STARTER)
- 3C - POLYMER METERING PUMP NO. 3 (2HP FVNR STARTER)
- 3F - ROADWAY LIGHTING CONTACTOR
- 3H - ROADWAY LIGHTING CONTACTOR
- 3K - ELECTRICAL ROOM PANEL PP1 XFMR (FEEDER BREAKER)
- 4A - PLANT HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4C - DEVICENET COMM. MODULE
- 4F - BLDG HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4H - CHEMICAL FEED PANEL (FEEDER BREAKER)
- 4J - COMPOST BLDG POWER PANEL PP1 (FEEDER BREAKER)
- 4K - POLYMER METERING PUMP NO. 4 (2HP FVNR STARTER)
- 5A - SPD
- 5D - EMPTY CUBICLE
- 5F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-A
- 6A - POWER METER
- 6D - SOLIDS PROCESS SLUDGE CONVEYOR (FEEDER BREAKER)
- 6E - ROLL UP DOOR (FEEDER BREAKER)
- 6F - EMPTY CUBICLE
- 6H - 800AF/800AT TIE CIRCUIT BREAKER
- 7A - EMPTY CUBICLE
- 7C - DEWATERING SCRUBBER (FEEDER BREAKER)
- 7F - CHEMICAL ROOM SUMP PUMP SP-1 (2HP FVNR STARTER)
- 7H - BELT FILTER PRESS NO. 3 BFP3 (FEEDER BREAKER)
- 7J - BELT FILTER PRESS NO. 1 BFP1 (FEEDER BREAKER)
- 7K - AUGER CONVEYOR CONTROL PANEL (FEEDER BREAKER)
- 7L - SOLIDS AIR COMPRESSOR NO. 1 (5HP FVNR STARTER)
- 8A - BOILER CIRC PUMP NO. 2 (2HP FVNR STARTER)
- 8C - PLANT HOT WATER CIRC PUMP NO. 2 (7.5HP FVNR STARTER)
- 8E - DEVICENET COMM. MODULE
- 8H - BLDG HOT WATER CIRC PUMP NO. 2 (1HP FVNR STARTER)
- 8K - PANEL LPSPB XFMR (FEEDER BREAKER)
- 8L - SOLIDS AIR COMPRESSOR NO. 2 (5HP FVNR STARTER)
- 9A - EMPTY CUBICLE
- 9C - POLYMER METERING PUMP NO. 2 (2HP FVNR STARTER)
- 9F - SPARE (3HP FVNR STARTER)
- 9H - SPARE (10HP FVNR STARTER)
- 9K - ELECTRICAL SHOP POWER PANEL XFMR (FEEDER BREAKER)
- 10A - POWER METER
- 10D - UPS
- 10F - POLYMER METERING PUMP NO. 1 (2HP FVNR STARTER)
- 10J - SOLIDS PROCESS BOILER #2 (FEEDER BREAKER)
- 10K - DEVICENET POWER SUPPLY
- 11A - SPD
- 11D - EMPTY CUBICLE
- 11F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-B

EXISTING MOTOR CONTROL CENTER MCC-SPB SCHEDULE (MODIFIED):

- 1A - BOILER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 1C - SPARE (FEEDER BREAKER)
- 1D - 480/277V 3-PHASE POWER PANEL (FEEDER BREAKER)
- 1L - EMPTY CUBICLE
- 2A - CENTRIFUGE NO. 1 (FEEDER BREAKER)
- 2C - EMPTY CUBICLE
- 2D - EMPTY CUBICLE
- 2E - PANEL PSPB XFMR (FEEDER BREAKER)
- 2F - HOT WATER HEATER
- 2G - UPS
- 2J - SOLIDS PROCESS BOILER #1
- 2K - DEVICENET POWER SUPPLY
- 3A - SPARE (3HP FVNR STARTER)
- 3C - SPARE (2HP FVNR STARTER)
- 3F - ROADWAY LIGHTING CONTACTOR
- 3H - ROADWAY LIGHTING CONTACTOR
- 3K - ELECTRICAL ROOM PANEL PP1 XFMR (FEEDER BREAKER)
- 4A - PLANT HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4C - DEVICENET COMM. MODULE
- 4F - BLDG HOT WATER CIRC PUMP NO. 1 (FEEDER BREAKER)
- 4H - CHEMICAL FEED PANEL (FEEDER BREAKER)
- 4J - COMPOST BLDG POWER PANEL PP1 (FEEDER BREAKER)
- 4K - CENTRIFUGE NO. 3 (FEEDER BREAKER)
- 5A - SPD
- 5D - EMPTY CUBICLE
- 5F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-A
- 6A - POWER METER
- 6D - SOLIDS PROCESS SLUDGE CONVEYOR (FEEDER BREAKER)
- 6E - ROLL UP DOOR (FEEDER BREAKER)
- 6F - EMPTY CUBICLE
- 6H - 800AF/800AT TIE CIRCUIT BREAKER
- 7A - EMPTY CUBICLE
- 7C - DEWATERING SCRUBBER (FEEDER BREAKER)
- 7F - CHEMICAL ROOM SUMP PUMP SP-1 (2HP FVNR STARTER)
- 7H - SPARE (FEEDER BREAKER)
- 7J - SPARE (FEEDER BREAKER)
- 7K - AUGER CONVEYOR CONTROL PANEL (FEEDER BREAKER)
- 7L - SOLIDS AIR COMPRESSOR NO. 1 (5HP FVNR STARTER)
- 8A - BOILER CIRC PUMP NO. 2 (2HP FVNR STARTER)
- 8C - PLANT HOT WATER CIRC PUMP NO. 2 (7.5HP FVNR STARTER)
- 8E - DEVICENET COMM. MODULE
- 8H - BLDG HOT WATER CIRC PUMP NO. 2 (1HP FVNR STARTER)
- 8K - PANEL LPSPB XFMR (FEEDER BREAKER)
- 8L - SOLIDS AIR COMPRESSOR NO. 2 (5HP FVNR STARTER)
- 9A - EMPTY CUBICLE
- 9C - CENTRIFUGE NO. 2 (FEEDER BREAKER)
- 9F - SPARE (3HP FVNR STARTER)
- 9H - SPARE (10HP FVNR STARTER)
- 9K - ELECTRICAL SHOP POWER PANEL XFMR (FEEDER BREAKER)
- 10A - POWER METER
- 10D - UPS
- 10F - SPARE (2HP FVNR STARTER)
- 10J - SOLIDS PROCESS BOILER #2 (FEEDER BREAKER)
- 10K - DEVICENET POWER SUPPLY
- 11A - SPD
- 11D - EMPTY CUBICLE
- 11F - 800AF/800AT MAIN CIRCUIT BREAKER MCB-B



2 EXISTING MOTOR CONTROL CENTER (MCC-SPB)
NEW WORK PLAN - ALTERNATIVE NO. 2
NOT TO SCALE

BID DOCUMENTS
 GRWV PROJECT NO. 4816
 CLIENT PROJECT NO. XXXX
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GRWV AND IS TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM GRWV.
 engineering architecture geospatial
 www.grwinc.com
ELECTRICAL
MCC MODIFICATIONS (2 OF 2)
 WEST HICKMAN WWTP DEWATERING IMPROVEMENTS
 LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
 DESIGNED: CJC
 DRAWN: STAFF
 REVIEWED: CJC
 APPROVED: CJC
 DATE: 8/10/2021
 SCALE: JULY, 2021
 SHEET NO. E-00-602