

ADDENDUM NO. 1

SPECIFICATIONS AND CONTRACT DOCUMENTS

**TAYLOR MILL TREATMENT PLANT BELT FILTER PRESS REPLACEMENT
NORTHERN KENTUCKY WATER DISTRICT**

GRW PROJECT NO. 4384

January 19, 2017

1. Remove and Replace Specification Section 004100 – Bid Form:

Specification Section 004100 – Bid Form shall be removed and replaced. Changes to the Bid Form are:

- Note #2 on Page 4 shall be changed to:

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, technical literature, dimensional drawings, etc., or any other information requested by the Owner. This submittal information shall be provided to the Owner within 72 hours of request for proper evaluation. ~~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.

- Instrumentation/SCADA to be removed from the Proposed Subcontractor table. All instrumentation/SCADA work is to be performed by NKWD.

2. Remove Specification Section 007343 – Prevailing Wage Rate Requirements:

Specification Section 007343 – Prevailing Wage Rate Requirements shall be removed from the contract documents. Prevailing wages are not required.

2. Add Specification Section 007340 – Labor Provisions-Kentucky

Specification Section 007340 – Labor Provisions – Kentucky shall be added to the contract documents.

3. Specification Section 412223 – Trolley Hoist Equipment

Please add the following to Paragraph 1.2 of Specification Section 412223 – Trolley Hoist Equipment from:

B. Section 083610 – Chain Drive Opener

4. **Specification Section 024100 – Demolition and Salvage**

Please add the following to Paragraph 3.4, “Protection of Existing Work”, of Specification Section 024100 – Demolition and Salvage:

- B. Temporary Protection: Contractor to provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 - 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 - 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 - 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 - 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 015000 - Temporary Facilities and Controls

- C. Temporary Shoring: Contractor to design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

5. **Drawing Sheet: E-701**

The sludge flow meter shown on E-701 is to be removed. There is no existing sludge flow meter and there is no proposed sludge flow meter.

6. **Drawing Sheet: E-602**

The conduit listed on Sheet E-602 shall be revised from “ 3/4” EMT ” to “ 3/4” GRS ”.

7. **Drawing Sheet: E-103**

The conduit lines drawn from the Belt Filter Press and the Eye Wash Station have been revised to more clearly show their connection to PLC-1. The motor symbols for the retractable beam have been revised to more clearly show their location. See the attached exhibit for the revision.

8. **Drawing Sheet: M-101**

The location of the air compressor was moved 12” down the page to avoid any conflicts with vent piping. See attached exhibit for the revision.

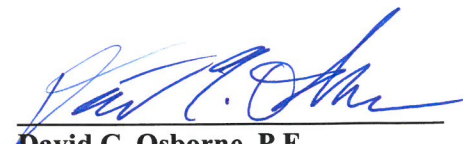
9. TO ALL PROSPECTIVE SUBMITTERS:

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

Questions	Answers
1. Alternative belt filter press, conveyor and polymer feed equipment. Please elaborate on this?	As listed on the bid form (specification section 004100), the project is base bid around the listed manufacturers. Additionally, on the bid form, alternative equipment can be input for deducts. Any alternates will be considered after selection of the lowest Total Base Bid. Should the Owner select Alternate 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 necessary to accommodate this equipment.
2. Sludge flow meter shown on Sheet E-701 cannot be located on other sheets.	The sludge flow meter that is shown on Sheet E-701 is there in error as it was included by the manufacturer. There is no existing sludge flow meter and there will be no proposed sludge flow meter. This will be removed in the Addendum No. 1.
3. Specifications list several options for acceptable conduit types but Sheet E-602 lists EMT Conduit. Most of the existing conduit at the site is GRS, is this acceptable?	GRS conduit is acceptable. Sheet E-602 will be revised to list GRS conduit in the Addendum No. 1.
4. It appears the Belt Filter Press conduit line runs to the Eye Wash Station, according to how the conduit lines are drawn on Sheet E-103.	There are actually two different conduit runs to the PLC-1. One being from the Belt Filter Press and the other from the Eye Wash Station. Sheet E-103 will be revised in the Addendum No. 1 to show this more clearly.
5. Will alternative dewatering processes outside of a traditional belt filter press be considered?	No. Only traditional belt filter presses will be considered for this project. No other alternative dewatering processes will be considered.
6. Is the wall where the new overhead access door being installed load bearing?	No. This wall is not a load bearing wall. Contractor shall verify and determine level of shoring needs that may be required in cutting the opening of the wall.
7. What is the last day to submit questions?	The last day to submit questions is Friday, January 20, 2017.
8. Has there been any testing done on the VCT tile to be removed to determine if it contains asbestos?	Ongoing. The results of the test will be provided to all Plan Holders. The results are expected to come back end of the week of 1/16/17 or start of the week of 1/23/17.
9. Plan Sheets A-102 & A-401 – Construction Keynote #16. Is it the intent that the Belt Filter Press manufacturer will supply the belt press access platform and responsible for its design?	No. The design of the belt press access platform is the responsibility of the access platform manufacturer, <u>not</u> the belt filter press manufacturer.
10. What is the purpose of the stairs at the polymer containment and what are they providing access to? Wall is 1' high but section view shows a 2' rise and ending above the top of wall.	The stairs allow for the operators to load dry polymer in the hopper of the polymer feed system at waist level.
11. Does the equipment to be removed/salvaged contain or have the potential to contain	No.

pathogens?	
12. Is the material produced by this equipment a bio-solid? If so, what class?	No. The material produced by the belt filter press is not a bio-solid.
13. Will the equipment be cleaned, purged and sanitized by Owner ahead of Subcontractor handling/demo/removal?	No.
14. Has an asbestos survey been completed for the building?	No. A piece of VCT tile from the office/storage room was tested for asbestos. See Questions #8 for details. The rest of the building has and is not being tested. The building was not built in 1990's and not expected to have asbestos present.
15. Will working in the room with the belt filter equipment prior to plant shutdown require special training, monitoring or PPE?	No.
16. Can the designated qualified and experienced safety representative at the site be acting as the superintendent?	No.
17. Does Division 22 and 46 plumbing work require a licensed plumbing contractor?	Yes.
18. Will the galvanized angles require dielectric separation from the aluminum grating and stairs?	Yes. Please refer to Specification Section 0552202 – Aluminum Handrails and Railings, Paragraph 3.2.D.
19. Will the metal railings, stairs and grating require bonding and grounding?	No.
20. Can the existing stairs and railing located behind the press, that are to be demolished, be re-used for the new polymer containment area stairs & railings?	No. At this time, the polymer containment stairs and railings are to be new. The reuse of the existing stairs and railings can be discussed as a potential change order during construction.
21. Can the bid opening date be extended?	No. The bid opening date will not be extended. The bid opening will be, as listed in the Contract Documents, on Wednesday, January 25, 2017 at 2:00pm at 2835 Crescent Springs Road, Erlanger, KY 41018.

GRW ENGINEERS, INC.


David C. Osborne, P.E.
Project Engineer

Attachments:

- Plan Holders List**
- Pre-Bid Meeting Sign-in Sheet**
- Pre-Bid Meeting Minutes**
- Specification Section – 004100, Bid Form**
- Specification Section – 007340, Labor Provisions**
- Sheet E-103 Exhibit**
- Sheet M-101 Exhibit**

**Northern Kentucky Water District
Taylor Mill Treatment Plant
Belt Filter Press Replacement Project
Pre-Bid Meeting Minutes
January 12, 2017**

Pre-Bid Meeting Date: January 12, 2017, 10:00 AM (local time)

Bid Opening Date: January 25, 2017 at 2:00 PM (local time) at 2835 Crescent Springs Road, P.O. Box 18640, Erlanger, KY 41018.

Meeting Attendees: See attached sign-in sheet

Items Discussed:

Engineer Comments with Clarifications:

1. The scope of construction work was summarized:
 - o Demolition of existing equipment and installation of new equipment – belt filter press, belt conveyor, polymer feed system, control panels and chemical metering pumps
 - o Construction of a new interior wall
 - o Construction of new overhead access door.
 - o Construction of new monorail and hoist system.
 - o Associated piping, electrical, HVAC, plumbing and instrumentation work
2. The construction time on the project is 350 days to substantial completion and 400 days to final completion.
3. Anticipated Schedule (Specification Section 013213)
 - o Notice of Award/Notice to Proceed – April 2017
 - o Equipment Submittal – May 2017
 - o Submittal Review – June 2017
 - o Equipment Fabrication and Delivery – December 2017
 - o Anticipated Plan Shutdown – November 2017 through March 2018
 - o Substantial Completion – February 2018
 - o Project Completion – March 2018
4. A plant tour was conducted after the pre-bid meeting. If you would like to visit the site again, please schedule with Mr. Kevin Owen, Maintenance Supervisor, 859-991-1641, 72 hours in advance.
5. An addendum will be sent out on the project. As of now, the addendum is a result of the recent legislative session that required prevailing wage rates. Therefore, the

prevailing wage rates will be removed from the contract documents. The addendum is scheduled to be sent out the week of January 16, 2017.

6. Any questions after today, please make in writing to David C. Osborne (DOsborne@grwinc.com) at GRW. All questions must be submitted no later than Friday, January 20, 2017.
7. The questions to date were reviewed and answered. See below. The official answer to these questions will be provided in the first addendum, scheduled for the week of January 16, 2017.

Questions	Answers
1. Alternative belt filter press, conveyor and polymer feed equipment.	As listed on the bid form (specification section 004100), the project is base bid around the listed manufacturers. Additionally, on the bid form, alternative equipment can be input for deducts. Any additive alternates will be considered after selection of the lowest Total Base Bid. Should the Owner select Alternate 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 necessary to accommodate this equipment.
2. Sludge flow meter shown on Sheet E-701 cannot be located on other sheets.	The sludge flow meter that is shown on Sheet E-701 is there in error as it was included by the manufacturer. There is no existing sludge flow meter and there will be no proposed sludge flow meter. This will be removed in the Addendum No. 1.
3. Specifications list several options for acceptable conduit types but Sheet E-602 lists EMT Conduit. Most of the existing conduit at the site is GRS, is this acceptable?	GRS conduit is acceptable. Sheet E-602 will be revised to list GRS conduit in the Addendum No. 1.
4. It appears the Belt Filter Press conduit line runs to the Eye Wash Station, according to how the conduit lines are drawn on Sheet E-103.	There are actually two different conduit runs to the PLC-1. One being from the Belt Filter Press and the other from the Eye Wash Station. Sheet E-103 will be revised in the Addendum No. 1 to show this more clearly.
5. Will alternative dewatering processes outside of a traditional belt filter press be considered?	No. Only traditional belt filter presses will be considered for this project. No other alternative dewatering processes will be considered.

6. Is the wall where the new overhead access door being installed load bearing?	No. This wall is not a load bearing wall. Contractor shall verify and determine level of shoring needs that may be required in cutting the opening of the wall.
7. What is the last day to submit questions?	The last day to submit questions is Friday, January 20, 2017.
8. Plan Sheets A-102 & A-401 – Construction Keynote #16. Is it the intent that the Belt Filter Press manufacturer will supply the belt press access platform and responsible for its design?	No. The design of the belt press access platform is the responsibility of the access platform manufacturer, <u>not</u> the belt filter press manufacturer.
9. What is the purpose of the stairs at the polymer containment and what are they providing access to? Wall is 1' high but section view shows a 2' rise and ending above the top of wall.	The stairs allow for the operators to input dry polymer in the hopper of the polymer feed system at waist level.
10. Does the equipment to be removed/salvaged contain or have the potential to contain pathogens?	No.
11. Is the material produced by this equipment a bio-solid? If so, what class?	No. The material produced by the belt filter press is not a bio-solid.
12. Will the equipment be cleaned, purged and sanitized by Owner ahead of Subcontractor handling/demo/removal?	No.
13. Has an asbestos survey been completed for the building?	No. A piece of VCT tile from the office/storage room was sent for asbestos testing. Results will be sent to Plan Holders once received. The rest of the building has and is not being tested. The building was not built in 1990's and not expected to have asbestos present.
14. Will working in the room with the belt filter equipment prior to plant shutdown require special training, monitoring or PPE?	No.
15. Can the designated qualified and experienced safety representative at the site be acting as the superintendent?	No.
16. Does Division 22 and 46 plumbing work require a licensed plumbing contractor?	Yes.
17. Will the galvanized angles require dielectric separation from the aluminum grating and stairs?	Yes. Please refer to Specification Section 0552202 – Aluminum Handrails and Railings, Paragraph 3.2.D.
18. Will the metal railings, stairs and grating require bonding and grounding?	No.

7. The following questions were asked at the meeting. Some of the answers were provided and the others have been answered since. All of this summary shall be in the addendum.

Questions	Answers
1. Is the wall where the new overhead access door is being installed load bearing?	No. This wall is not a load bearing wall. Contractor shall verify and determine level of shoring needs that may be required in cutting the opening in the wall.
2. Sheet E-701 references a sludge flow meter but it is not found on the plans.	There will not be a sludge flow meter within the project. Therefore, will be no data inputs required for a sludge flow meter on the PLC.
3. Duration of bid holding time.	The listed bid holding time of 90-days.
4.	

Section 004100

BID FORM

PROJECT IDENTIFICATION: **Taylor Mill Treatment Plant Belt Filter Press Replacement Project**

THIS BID IS SUBMITTED TO:

Northern Kentucky Water District (Owner)
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, Kentucky 41018

THIS BID IS SUBMITTED BY: _____
(Bidder's Company Name)

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Contract Documents to perform all Work as specified or indicated in the Contract Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Invitation to Bid and the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time to which the Bidder may agree in writing upon request of Owner. Bidder understands that certain extensions to the time for acceptance of this Bid may require the consent of the surety for the Bid Bond.
3. In submitting this Bid, Bidder represents and covenants, as set forth in the Agreement, that:
 - a. Bidder has examined and carefully studied the Contract Documents, the other related data identified in the Contract Documents, and the following Addenda, receipt of all of which is hereby acknowledged:

No. _____	Dated _____
No. _____	Dated _____
No. _____	Dated _____
 - b. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - c. Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
 - d. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary explorations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or

performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

- e. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- f. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- g. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- h. Bidder has given Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Owner is acceptable to Bidder.
- i. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- j. [Check the one that applies]

_____ Bidder is a "resident bidder" as defined in KRS 45A.494(2) of Kentucky's resident bidder reciprocal preference statute AND submits with this Bid a properly executed and notarized Affidavit that affirms that Bidder meets the resident bidder criteria, which Affidavit is hereby incorporated herein and made a part of this Bid.

OR

_____ Bidder is a "nonresident bidder" as defined in KRS 45A.494(3) of Kentucky's resident bidder reciprocal preference statute AND its principal place of business as identified its Certificate of Authority to transact business in Kentucky as filed with Kentucky's Secretary of State or, if Bidder hereby represents and covenants that it is not required to obtain a Certificate of Authority to transact business in Kentucky, its mailing address, is:

- k. Bidder's Organization Number from Kentucky's Secretary of State is # _____ [if applicable] and Bidder is qualified to transact business in the State of Kentucky or hereby covenants to obtain such qualifications prior to award of the Contract.
- 4. Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
- 5. The Bidder understands and agrees that during the performance of the Contract, it shall maintain a presence within such proximity of the Site which will allow it to respond to an emergency at the Site within one hour of receiving notice of an emergency, including emergencies occurring during non-working hours. The Bidder shall provide a list of emergency phone numbers for such purposes. If the Bidder does not have such a presence, it may satisfy this requirement by sub-contracting with a sub-contractor that does have such a presence, provided that any such sub-contractor must be approved by the Owner, in its sole discretion, prior to the project pre-construction meeting.
- 6. Bidder will complete the Work for the following price:

- Notes:
- 1. Bids shall include sales tax, where required, and all other applicable taxes and fees.
 - 2. A Contract award will be based on the lowest responsive, responsible bidder after consideration of the (optional) proposed deductive alternates. The Owner reserves the right to select any, all, or none of the alternates.
 - 3. Procurement of Special Inspections shall be accomplished by the Owner. Specification section 014533 – Special Inspections is included in the Contract Documents for Contractor coordination of the Special Inspections.

Lump Sum Base Bid of:

\$ _____ in numbers
and _____ in words.

Lump Sum Deduction - Alternates as Selected By Owner:

\$ _____ in numbers
and _____ in words.

(Above Is To be Filled In By Owner After Review of Bid Alternates)

Total Bid:

\$ _____ in numbers

and _____ in words.

(Above Is To be Filled In By Owner)

Alternative Equipment Information			
Equipment Item	Base Bid Equipment Manufacturer	Alternate Bid Equipment Manufacturer	Lump Sum Deduction
1. Belt Filter Press	Andritz	a.	a.
		b.	b.
2. Horizontal Belt Conveyor	Keystone	a.	a.
		b.	b.
3. Polymer Feed System	Acrison	a.	a.
		b.	b.
4. Chemical Metering Pumps	Watson-Marlow	a.	a.
		b.	b.
5. Trolley Hoist	Yale	a.	a.
		b.	b.

- Notes: 1. The design has been completed using listed Base Bid equipment manufacturer. Should the Owner select other Alternate 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. 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, technical literature, dimensional drawings, etc., or any other information requested by the Owner. This submittal information shall be provided to the Owner within 72 hours of request for proper evaluation. ~~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 best, lowest Bidder will be determined by reducing the lump sum Bid proposal by the amount of the deductive alternates selected by the Owner for each Bidder.

7. Bidder agrees that the Work will be substantially complete within 350 calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 (A) of the General Conditions, and completed and ready for final payment in accordance with Article 14 of the General Conditions within 400 calendar days after the date when the Contract Times commence to run.

The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

8. Communications concerning this Bid shall be sent to Bidder at the following address:

9. The terms in this Bid, which are defined in the General Conditions included as part of the Contract Documents, have the meanings assigned to them in the General Conditions.

10. Proposed Subcontractors:

- a. The Bidder's proposed subcontractors shall be listed below for the various branches of work included in the proposed contract. All subcontractors are subject to the approval of the Owner.
- b. **Unless rejected or otherwise permitted by the Owner, no substitutions or changes to the listing of the entities proposed to perform that branch of the work will be allowed following opening of the Bids.**
- c. Where Bidder proposes to perform the work with its own forces, the phrase "Prime Contractor" shall be enter in the box provided

d.

Branch of Work	Name of Subcontractor
1. Electrical	
2. Instrumentation/SCADA	Not Applicable
3. Plumbing	
4. Mechanical/HVAC	

Failure to submit a complete list shall be cause for rejection of the Bid.

SIGNATURE OF BIDDER

If an Individual

Name (typed or printed): _____

By _____ (SEAL)
(Individual's signature)

doing business as _____

Business address _____

Phone No.: _____ Fax No.: _____

Date _____

If a Partnership

Partnership Name: _____ (SEAL)

By _____
(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General, Professional Service): _____

By _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (CORPORATE SEAL)

Attest _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Limited Liability Company

Company Name: _____ (SEAL)

State of Organization: _____

Type (General, Professional): _____

By _____
Signature of Member or Manager (as applicable)- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (COMPANY SEAL)

Attest _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Joint Venture

(Each joint venturer must sign. The manner for signing for each individual, partnership, and corporation that is party to the joint venture should be in the manner indicated above.)

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ Fax No.: _____

Date _____

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ Fax No.: _____

Date _____

LABOR PROVISIONS - KENTUCKY

PART 1 - GENERAL

1.1 HOURS OF WORK

- A. The Contractor shall comply in every respect to all provisions of the Kentucky Revised Statutes 337.505 to 337.550.
- B. Hours of work shall be as set out in KRS 337.550; that is, not more than eight (8) hours in one calendar day, nor more than forty (40) hours in one week, except in case of emergency caused by fire, flood or damage to life or property.
- C. The provisions included under KRS 337.540 concerning a 10-hour workday may be allowed if Owner is in agreement.
- D. Any laborer, workman, mechanic, helper, assistant or apprentice working in excess of eight (8) hours per day or forty (40) hours in one week except in case of emergency, shall be paid not less than 1-1/2 times the base rate.

1.2 OVERTIME WORK – OWNER’S REPRESENTATIVE

- A. Any overtime work (greater than 40 hours in one week) shall require the Contractor to reimburse the Owner for additional engineering project representative costs at an hourly rate of \$75.00 per hour.

1.3 CONTRACTOR WORK HOURS AND SAFETY STANDARDS ACT

- A. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any work week in which he or she is employed on such work to in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- B. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b) (1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for unliquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

- B. Withholding for unpaid wages and liquidated damages. The U.S. Environmental Protection Agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally- assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b) (2) of this section.

- C. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

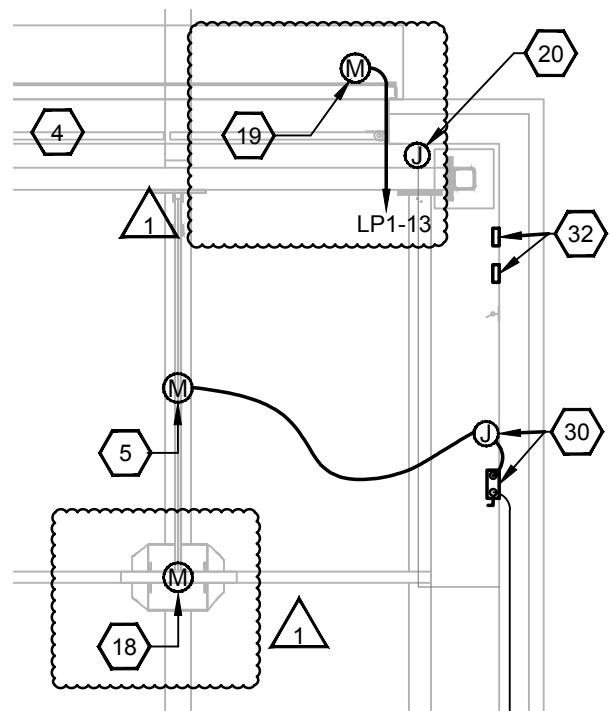
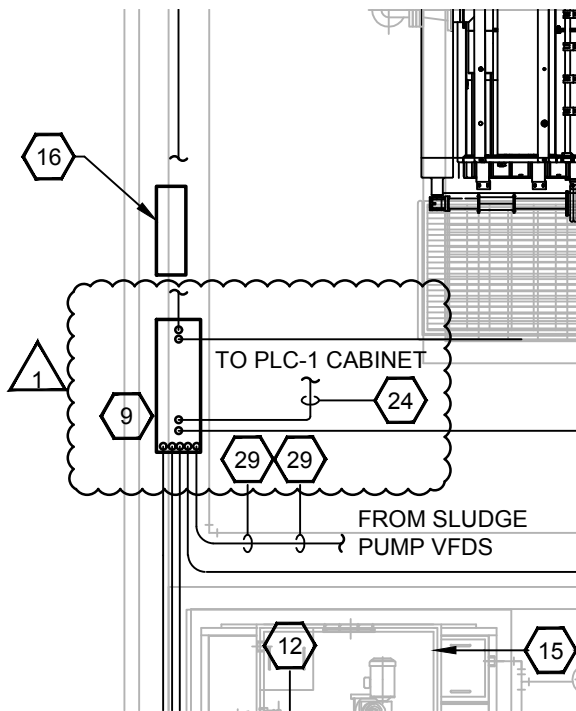
PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 007343

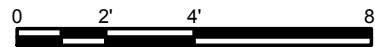
SHEET KEYNOTES:


9. NEW BELT FILTER PRESS CONTROL PANEL. MAKE CAT-5 CONNECTION TO EXISTING SCADA SYSTEM AT PLC 1 (LOGIX 5563 CONTROL UNIT BY ALLEN BRADLEY).
18. NEW RETRACTABLE BEAM MOTOR. FURNISH AND INSTALL CEILING MOUNTED RECEPTACLE FED FROM COILING DOOR CIRCUIT LP1-13 FOR THIS EQUIPMENT.
19. OVERHEAD DOOR CONTROLLER AND MOTOR. PROVIDE (2) #12, (1) #12 GND IN 3/4" C FOR THIS CIRCUIT. WIRE AUXILIARY CONTACT FOR COLLISION DETECTION TO RETRACTABLE BEAM MOTOR.
24. (10) #12 IN 3/4" C FOR VARIOUS INTERLOCKING RELAYS FROM BFP CONTROL PANEL TO PLC-1. REFER TO BFP PANEL ON E-702 POINT TO POINT DRAWING.



PARTIAL SECOND FLOOR ELECTRICAL PLAN - NEW WORK

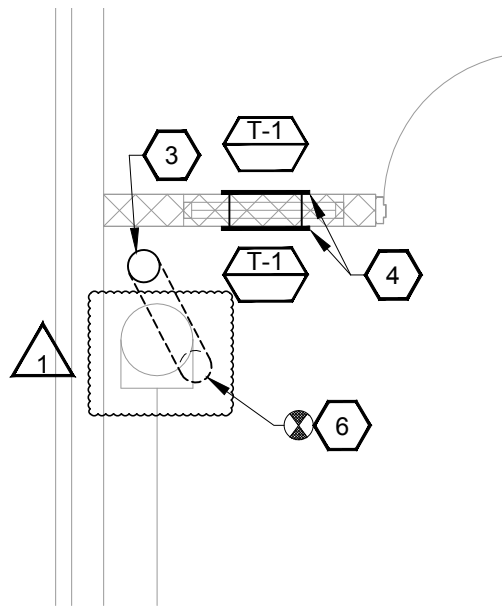
SCALE: 1/4"=1'-0"



GRW PROJECT NO. 4384		CLIENT PROJECT NO.		DESIGNED: ACR	ADDENDUM NO. 1 ELECTRICAL NEW WORK PLAN BELT FILTER PRESS REPLACEMENT TAYLOR MILL TREATMENT PLANT NORTHERN KY WATER DISTRICT	 engineering architecture geospatial www.grwinc.com	DATE: JANUARY 18, 2017	
REVISIONS		NO.	DESCRIPTION	DATE			BY	SCALE: 1/4" = 1'-0"
								SHEET NO.:
								E-103 REV 1
SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1/2" WHEN PLOTTED				DRAWN: ACR	<small>ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GRW ENGINEERS, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION</small>			
				REVIEWED: WLM				
				APPROVED: WLM				

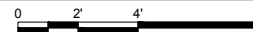
⬡ SHEET KEYNOTES:

3. PROVIDE AND INSTALL MATCHING VENT FROM UNIT HEATER BELOW ON FIRST FLOOR UP TO MAIN VENT ABOVE. CORE DRILL FLOOR SIZED TO ACCEPT VENT AND ASSOCIATED FIRE STOPPING. SEE DETAIL, THIS SHEET. (NOT TO CONFLICT WITH AIR COMPRESSOR) 1
4. PROVIDE AND INSTALL TRANSFER GRILLES APPROXIMATELY 8'-0" AFF TO BOTTOM OF GRILLES.
6. PROVIDE AND INSTALL VENT FROM FLOOR PENETRATION BELOW UP TO MAIN VENT ABOVE, INCLUDING OFFSET.



BELT FILTER PRESS - SECOND FLOOR HVAC NEW WORK PLAN - PARTIAL

SCALE: 1/4"=1'-0"



GRW PROJECT NO. 4384	CLIENT PROJECT NO.	DESIGNED: DCO	ADDENDUM NO. 1 HVAC PLANS BELT FILTER PRESS REPLACEMENT TAYLOR MILL TREATMENT PLANT NORTHERN KY WATER DISTRICT	 engineering architecture geospatial www.grwinc.com	DATE: JANUARY 18, 2017	
REVISIONS		DRAWN: DCO			SCALE: 1/4" = 1'-0"	
NO.	DESCRIPTION	DATE			BY	SHEET NO.
THIS MARK SHOULD MEASURE EXACTLY 1/2" WHEN PLOTTED		REVIEWED: AAB			ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF GRW ENGINEERS, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION.	
		APPROVED: AAB	M-101 REV 1			

ADDENDUM NO. 2

SPECIFICATIONS AND CONTRACT DOCUMENTS

**TAYLOR MILL TREATMENT PLANT BELT FILTER PRESS REPLACEMENT
NORTHERN KENTUCKY WATER DISTRICT**

GRW PROJECT NO. 4384

January 20, 2017

1. Specification Section 004100 – Bid Form

The contract days in Paragraph 7 of Specification Section 004100 – Bid Form has been revised from 350 days to 380 days for substantial completion and from 400 days to 430 days for final completion.

2. Specification Section 005000 – Agreement

The contract days in Article 3.1. – Contract Times of Specification Section 005000 - Agreement has been revised from 350 days to 380 days for substantial completion and from 400 days to 430 days for final completion.

3. Specification Section 013213 – Contractors Sequence of Construction Schedule – Water Plant

Anticipated Plant shutdown has been extended through April 2018. Paragraph A of Specification Section 013213 – Contractors Sequence of Construction Schedule – Water Plant has been revised from:

1. Notice of Award/Notice to Proceed – April 2017
2. Equipment Submittal – May 2017
3. Submittal Review – June 2017
4. Equipment Fabrication and Delivery – December 2017
5. Anticipated Plant Shutdown – November 2017 through March 2018
6. Substantial Completion – February 2018
7. Project Completion – March 2018

To:

1. Notice of Award/Notice to Proceed – April 2017
2. Equipment Submittal – ~~May 2017~~ June 2017
3. Submittal Review – ~~June 2017~~ August 2017
4. Equipment Fabrication and Delivery – ~~December 2017~~ February 2018
5. Anticipated Plant Shutdown – November 2017 through ~~March 2018~~ April 2018
6. Substantial Completion – ~~February 2018~~ March 2018
7. Project Completion – ~~March 2018~~ April 2018

4. Drawing Sheet: E-103

Belt Filter Press Control Panel SCADA connection has been routed to existing SCADA panel located in Belt Filter Press Room. Plans and keynotes have been revised as such. Please see attached exhibit.

5. Drawing Sheet: P-601

On Drawing Sheet P-601, the following paragraph has been added in the Description (Basis of Design) of the Safety Station in the Plumbing Fixtures table:

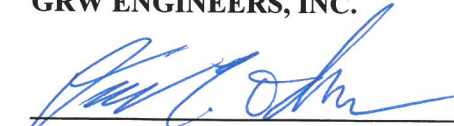
Flow Switch shall be FCI FLT 90 Series FlexSwitch, IFM Efector300 SAxx or approved equal.

6. TO ALL PROSPECTIVE SUBMITTERS:

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

Questions	Answers
1. Results of the asbestos test on the VCT tile.	Asbestiform minerals were “not detected at the reporting limit” in the VCT tile.
2. Addendum No. 1 states Owner will provide instrumentation/SCADA scope. Does this include Owner furnishing any and all equipment associated with the SCADA system? Are we to assume Contractors remain responsible for running CAT 5 in conduit from point-to-point only? Please clarify.	Please see the revised General Note 3 on the attached exhibit for Sheet E-103. The Contractor is responsible for furnishing any and all equipment associated with the SCADA system. The Contractor is responsible for running CAT-5 from point-to-point.
3. As a result of belt filter press equipment submittal review process, please consider extending the substantial completion time to 380 days and the final completion to 430 days. Additionally, requesting the allowable plant shutdown be extended through April 2018.	The contract times have been extended. Substantial completion is extended from 350 days to 380 days. Final completion is extended from 400 days to 430 days. Allowable plant shutdown is extended through April 2018. Shutdown expected November 2017 through April 2018. This will be revised in Addendum No. 2.
4.	

GRW ENGINEERS, INC.



David C. Osborne, P.E.
Project Engineer

Attachments:

**Specification Section – 004100, Bid Form
 Sheet E-103 Exhibit**

Section 004100

BID FORM

PROJECT IDENTIFICATION: **Taylor Mill Treatment Plant Belt Filter Press Replacement Project**

THIS BID IS SUBMITTED TO:

Northern Kentucky Water District (Owner)
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, Kentucky 41018

THIS BID IS SUBMITTED BY: _____
(Bidder's Company Name)

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Contract Documents to perform all Work as specified or indicated in the Contract Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Invitation to Bid and the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time to which the Bidder may agree in writing upon request of Owner. Bidder understands that certain extensions to the time for acceptance of this Bid may require the consent of the surety for the Bid Bond.
3. In submitting this Bid, Bidder represents and covenants, as set forth in the Agreement, that:
 - a. Bidder has examined and carefully studied the Contract Documents, the other related data identified in the Contract Documents, and the following Addenda, receipt of all of which is hereby acknowledged:

No. _____	Dated _____
No. _____	Dated _____
No. _____	Dated _____
 - b. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - c. Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
 - d. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary explorations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or

performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

- e. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- f. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- g. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- h. Bidder has given Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Owner is acceptable to Bidder.
- i. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- j. [Check the one that applies]

_____ Bidder is a “resident bidder” as defined in KRS 45A.494(2) of Kentucky’s resident bidder reciprocal preference statute AND submits with this Bid a properly executed and notarized Affidavit that affirms that Bidder meets the resident bidder criteria, which Affidavit is hereby incorporated herein and made a part of this Bid.

OR

_____ Bidder is a “nonresident bidder” as defined in KRS 45A.494(3) of Kentucky’s resident bidder reciprocal preference statute AND its principal place of business as identified its Certificate of Authority to transact business in Kentucky as filed with Kentucky’s Secretary of State or, if Bidder hereby represents and covenants that it is not required to obtain a Certificate of Authority to transact business in Kentucky, its mailing address, is:

- k. Bidder's Organization Number from Kentucky's Secretary of State is # _____ [if applicable] and Bidder is qualified to transact business in the State of Kentucky or hereby covenants to obtain such qualifications prior to award of the Contract.
4. Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
5. The Bidder understands and agrees that during the performance of the Contract, it shall maintain a presence within such proximity of the Site which will allow it to respond to an emergency at the Site within one hour of receiving notice of an emergency, including emergencies occurring during non-working hours. The Bidder shall provide a list of emergency phone numbers for such purposes. If the Bidder does not have such a presence, it may satisfy this requirement by sub-contracting with a sub-contractor that does have such a presence, provided that any such sub-contractor must be approved by the Owner, in its sole discretion, prior to the project pre-construction meeting.
6. Bidder will complete the Work for the following price:
- Notes:
1. Bids shall include sales tax, where required, and all other applicable taxes and fees.
 2. A Contract award will be based on the lowest responsive, responsible bidder after consideration of the (optional) proposed deductive alternates. The Owner reserves the right to select any, all, or none of the alternates.
 3. Procurement of Special Inspections shall be accomplished by the Owner. Specification section 014533 – Special Inspections is included in the Contract Documents for Contractor coordination of the Special Inspections.

Lump Sum Base Bid of:

\$ _____ in numbers

and _____ in words.

Lump Sum Deduction - Alternates as Selected By Owner:

\$ _____ in numbers

and _____ in words.

(Above Is To be Filled In By Owner After Review of Bid Alternates)

Total Bid:

\$ _____ in numbers

and _____ in words.

(Above Is To be Filled In By Owner)

Alternative Equipment Information			
Equipment Item	Base Bid Equipment Manufacturer	Alternate Bid Equipment Manufacturer	Lump Sum Deduction
1. Belt Filter Press	Andritz	a.	a.
		b.	b.
2. Horizontal Belt Conveyor	Keystone	a.	a.
		b.	b.
3. Polymer Feed System	Acrison	a.	a.
		b.	b.
4. Chemical Metering Pumps	Watson-Marlow	a.	a.
		b.	b.
5. Trolley Hoist	Yale	a.	a.
		b.	b.

- Notes: 1. The design has been completed using listed Base Bid equipment manufacturer. Should the Owner select other Alternate 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. 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, technical literature, dimensional drawings, etc., or any other information requested by the Owner. This submittal information shall be provided to the Owner within 72 hours of request for proper evaluation. ~~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 best, lowest Bidder will be determined by reducing the lump sum Bid proposal by the amount of the deductive alternates selected by the Owner for each Bidder.

7. Bidder agrees that the Work will be substantially complete within ~~350~~ 380 calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 (A) of the General Conditions, and completed and ready for final payment in accordance with Article 14 of the General Conditions within ~~400~~ 430 calendar days after the date when the Contract Times commence to run.

The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

8. Communications concerning this Bid shall be sent to Bidder at the following address:

9. The terms in this Bid, which are defined in the General Conditions included as part of the Contract Documents, have the meanings assigned to them in the General Conditions.

10. Proposed Subcontractors:

- a. The Bidder's proposed subcontractors shall be listed below for the various branches of work included in the proposed contract. All subcontractors are subject to the approval of the Owner.
- b. **Unless rejected or otherwise permitted by the Owner, no substitutions or changes to the listing of the entities proposed to perform that branch of the work will be allowed following opening of the Bids.**
- c. Where Bidder proposes to perform the work with its own forces, the phrase "Prime Contractor" shall be enter in the box provided

d.

Branch of Work	Name of Subcontractor
1. Electrical	
2. Instrumentation/SCADA	Not Applicable
3. Plumbing	
4. Mechanical/HVAC	

Failure to submit a complete list shall be cause for rejection of the Bid.

SIGNATURE OF BIDDER

If an Individual

Name (typed or printed): _____

By _____ (SEAL)
(Individual's signature)

doing business as _____

Business address _____

Phone No.: _____ Fax No.: _____

Date _____

If a Partnership

Partnership Name: _____ (SEAL)

By _____
(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General, Professional Service): _____

By _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (CORPORATE SEAL)

Attest _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Limited Liability Company

Company Name: _____ (SEAL)

State of Organization: _____

Type (General, Professional): _____

By _____
Signature of Member or Manager (as applicable)- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (COMPANY SEAL)

Attest _____

Business address _____

Phone No. _____ Fax No.: _____

Date _____

If a Joint Venture

(Each joint venturer must sign. The manner for signing for each individual, partnership, and corporation that is party to the joint venture should be in the manner indicated above.)

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ Fax No.: _____

Date _____

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

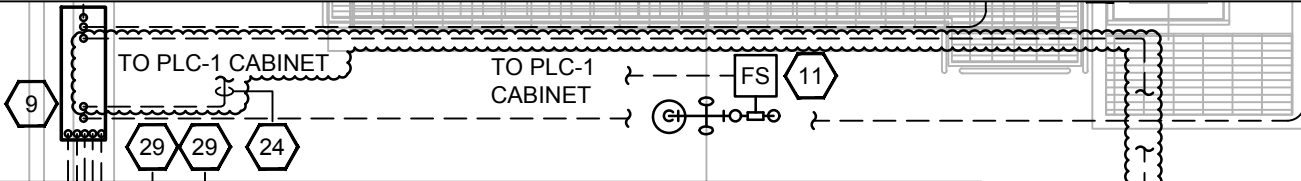
Business address: _____

Phone No.: _____ Fax No.: _____

Date _____

GENERAL NOTES:

3. SHOWN ALARMS ARE DESCRIPTIVE. SCADA PROGRAMMING AND ALARM DESIGN TO BE DONE BY OTHERS. NOTE THAT CONTRACTOR SHALL PROVIDE ADDITIONAL ETHERNET SWITCH AND DIGITAL INPUT CARD FOR EXISTING SCADA CABINETS FOR SCADA CONNECTION.



SHEET KEYNOTES:

9. NEW BELT FILTER PRESS (BFP) CONTROL PANEL. PROVIDE REQUIRED CONNECTIONS TO EXISTING PLANT SCADA AS DETAILED IN KEYNOTES 24 AND 34.



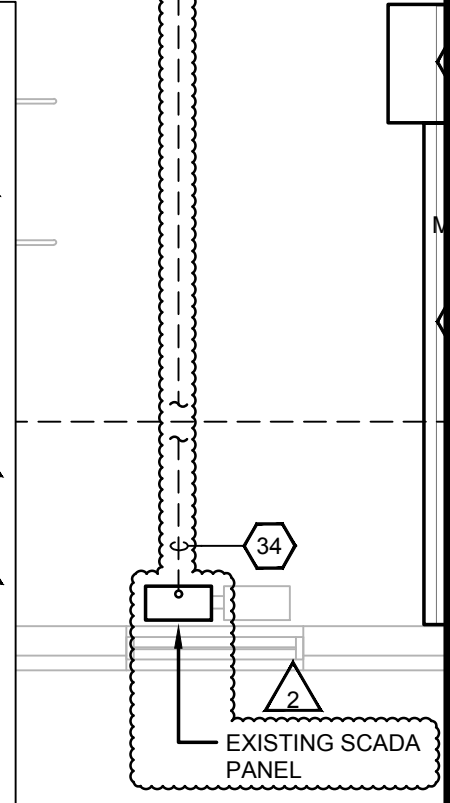
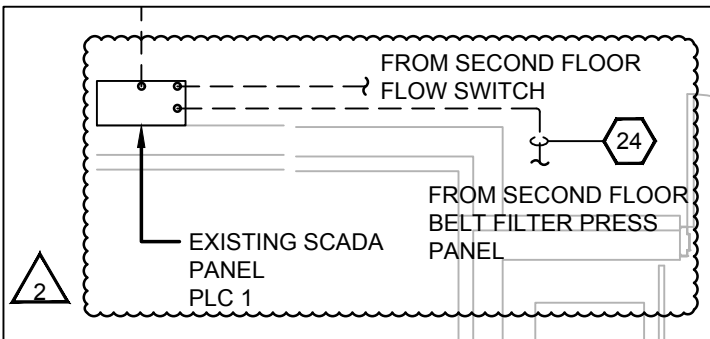
11. FLOW SWITCH ALARM FURNISHED WITH NEW SHOWER/EYE WASH STATION. PROVIDE (2) #14 IN 3/4" C TO EXISTING SCADA PANEL PLC-1 AS SHOWN FOR MONITORING SHOWER/EYEWASH STATION FLOW SWITCH.



24. (8) #14 IN 3/4" C (INTERLOCKING RELAYS) FROM BFP CONTROL PANEL TO EXISTING SCADA PANEL PLC-1 (LOGIX 5563 BY ALLEN BRADLEY). REFER TO POINT TO POINT DRAWING ON SHEET E-702 FOR LIST OF RELAYS.

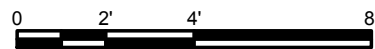


34. CAT-5 CABLE IN 1" C FROM BFP CONTROL PANEL TO EXISTING SCADA CABINET IN PRESS ROOM.



PARTIAL SECOND FLOOR ELECTRICAL PLAN - NEW WORK

SCALE: 1/4"=1'-0"



GRW PROJECT NO. 4384	CLIENT PROJECT NO.	DESIGNED: ACR																				
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REVIEWED: WLM																						
APPROVED: WLM																						

ADDENDUM NO. 2
 ELECTRICAL NEW WORK PLAN
 BELT FILTER PRESS REPLACEMENT
 TAYLOR MILL TREATMENT PLANT
 NORTHERN KY WATER DISTRICT



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