



**BOARD OF COUNTY COMMISSIONERS**  
**WARREN COUNTY, OHIO**

*406 Justice Drive, Lebanon, Ohio 45036*

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*Telephone (513) 695-1250*

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**TOM GROSSMANN**  
**SHANNON JONES**  
**DAVID G. YOUNG**

22-0527

April 12, 2022

**APPROVE CONSTRUCTION MANAGER AT RISK SERVICES AGREEMENT WITH SHOOK  
CONSTRUCTION FOR THE FOSTERS LIFT STATION AND GRAVITY SEWER IMPROVEMENTS PROJECT**

WHEREAS, with the adoption of Resolution No. 21-1113 on August 10, 2021 the Warren County Board of County Commissioners approved the issuance of a request for qualifications to interested contractors for construction manager at risk services; and

WHEREAS, with the adoption of Resolution No. 21-1420 on October 19, 2021 the Warren County Board of County Commissioners approve the issuance of a request for proposal to the four qualified firms that responded to the County's request for qualifications; and

WHEREAS, the Commissioner appointed evaluation committee reviewed the proposals, conducted post-proposal interviews, and after ranking the firms were directed by the County Commissioners through Resolution No. 22-0177 to enter into contract negotiations with the best valued firm, Shook Construction; and

NOW THEREFORE BE IT RESOLVED, to enter into an Agreement with Shook Construction Company for construction manager at risk services for the above referenced project, subject to the following conditions:

1. The scope of services shall be as stipulated in the "Standard Form of Agreement Between Owner and Construction Manager as Constructor" attached hereto and made part thereof.
2. Compensation shall be in accordance with the provisions of the aforementioned Agreement and the attachment thereto.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Young. Upon call of the roll, the following vote resulted:

Mr. Grossmann – yea  
Mr. Young – yea  
Mrs. Jones – yea

Resolution adopted this 12<sup>th</sup> day of April 2022.

BOARD OF COUNTY COMMISSIONERS

\_\_\_\_\_  
Tina Osborne, Clerk

cc: c/a – Shook Construction  
Water/Sewer (file)  
Project file



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**TOM GROSSMANN**  
**SHANNON JONES**  
**DAVID G. YOUNG**

22-0177

February 01, 2022

**AUTHORIZE THE SANITARY ENGINEER TO ENTER INTO CONTRACT NEGOTIATIONS WITH SHOOK CONSTRUCTION FOR CONSTRUCTION MANAGER AT RISK SERVICES FOR THE FOSTERS LIFT STATION AND GRAVITY SEWER IMPROVEMENTS PROJECT**

WHEREAS, with the adoption of Resolution No. 21-1113 on August 10, 2021, the Warren County Board of County Commissioners approved the issuance of a request for qualifications to interested contractors for construction manager at risk services; and

WHEREAS, with the adoption of Resolution No. 21-1420 on October 19, 2021 the Warren County Board of County Commissioners approved the issuance of a request for proposal to the four qualified firms that responded to the County's request for qualifications; and

WHEREAS, the Commissioner appointed evaluation committee has reviewed the proposals and conducted post-proposal interviews to allow each firm an opportunity to clarify and respond to questions, and upon further discussions has reached consensus regarding the rankings of the proposals based on best value; and

NOW THEREFORE BE IT RESOLVED, that the Board of County Commissioners accept the evaluation and rankings which are attached and included and further authorize the Sanitary Engineer to enter into contract negotiations with the best valued firm, Shook Construction.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Young. Upon call of the roll, the following vote resulted:

Mr. Grossmann – yea  
Mr. Young – yea  
Mrs. Jones – yea

Resolution adopted this 1<sup>st</sup> day of February 2022.

BOARD OF COUNTY COMMISSIONERS

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Tina Osborne, Clerk

cc: Water/Sewer (file)  
Bid File

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## PUBLIC ANNOUNCEMENT – REQUEST FOR QUALIFICATIONS

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### CONSTRUCTION MANAGEMENT AT RISK SERVICES

#### FOSTERS LIFT STATION AND GRAVITY SEWER IMPROVEMENTS

September 1, 2021

**Project Location:** Fosters Lift Station, 7953 Old 3’C Highway, Deerfield Township  
**Budgeted Constr. Cost:** \$9.5 Million  
**Design Engineer:** Burgess & Niple, Inc.

The Warren County Board of Commissioners (the Owner) is requesting Statements of Qualification (SOQ) from construction firms for the purposes of providing Construction Manager at Risk (CMR) services for all work related to the Fosters Lift Station and Gravity Sewer Improvement Project. Firms interested in providing CMR services for the project are invited to submit a SOQ to the Owner at the address listed below.

The delivery method for the project will be Construction Manager at Risk with a Guaranteed Maximum Price (GMP). As required by Ohio Revised Code Section 9.33, et seq., the Owner requests SOQs from experienced CMR firms. This Request for Qualifications (RFQ) includes criteria against which qualifications submitted will be reviewed and evaluated. The Owner will develop the short-list of firms from which pricing will be requested in the second phase of the selection process (the Request for Proposals or RFP phase). During the RFP phase, the short-listed firms will be asked to provide both pricing and technical proposals, which will be evaluated along with the SOQs to select the CMR firm that will provide the best value to the Owner. The Owner anticipates requesting a Guaranteed Maximum Price (GMP) upon completion of 90% design.

### SUBMITTAL INSTRUCTIONS

- 1. Receipt of Submittals:** Sealed submittals shall be received by the Warren County Water and Sewer Department, Warren County, Ohio, 406 Justice Drive, Lebanon, Ohio, 45036, until 4:00 p.m., Friday, October 8, 2021. Envelopes containing the submittals must be sealed, addressed to Warren County Water and Sewer Department at 406 Justice Drive, Lebanon, Ohio 45036, and shall be clearly marked:

**FOSTERS LIFT STATION AND GRAVITY SEWER IMPROVEMENTS**  
**October 8, 2021 @ 4:00 PM.**

Any submittal may be withdrawn prior to the above scheduled submittal time or authorized postponement thereof. Any submittal received after the time and date specified shall not be considered. Submit four (4) complete printed copies with all required supporting documentation and information in bound 8 ½” x 11” format, and one (1) electronic PDF copy. See below for specific requested information.

Warren County Board of Commissioners reserves the right to waive any defect or technicality in any SOQ received or to eliminate any CMR that submits an incomplete or inadequate SOQ or that is not responsive to the requirements of this RFQ

- 2. Addenda and Interpretations:** Questions regarding the information contained in this request shall be submitted in writing and emailed to:

Chris.brausch@co.warren.oh.us

and to be given consideration must be received at least five days prior to the qualification submittal date. All such interpretations and any supplemental instructions will be in the form of written addenda to the Request for Qualifications, which if issued, will be posted on the Warren County Commissioner's website, no later than three days prior to the submittal date. Addenda will not be mailed, emailed, or sent directly to interested entities. Firms interested in submitting qualifications shall be responsible for downloading addenda posted on the County Commissioner's website. Receipt of all addenda shall be acknowledged by Respondents in a transmittal letter with the SOQ

- 3. Site Visits:** Warren County will hold one optional site visit for all interested contractors at 2:00 PM, Thursday, September 30, 2021 at the Fosters Lift Station (7953 Old 3'C Highway, Deerfield Township)
- 4. Requests for Additional Information:** The County may make such investigations as they deem necessary to determine the ability of the submitting firm to perform the work, and all submitting firms shall furnish to the County all necessary information and data for the purpose as the County may request.
- 5. Discussions for Clarification Purposes:** Warren County may conduct discussions with firms who submit for the purpose of clarifications or corrections regarding a submittal to ensure full understanding of, and responsiveness to, the requirements specified in the request for qualifications.
- 6. Project Schedule:** The following is the anticipated schedule for the evaluation of qualifications and contract execution. The schedule is based on best available data and failure to meet any of the dates contained herein shall not affect the selection process.

Public Advertise on County Website	Sept 1, 2021
Public Advertise on Local Newspaper	Sept 5, 2021
Optional Site Visit	September 30, 2021
Deadline to Submit Questions	October 1, 2021
Final Addendum	October 5, 2021
Qualifications Due to County	October 8, 2021
Announce Short list of Qualified Firms	Mid October

Pre-Proposal Meeting with Short-Listed Firms	Late October
Proposals Due to the County	November
Interviews Final Selection “Best Value” Proposal	December
CMR Contract	January

**7. Status of Request for Qualifications**

This Request for Qualifications is solely a request for information. It does not represent an offer nor does it confer any rights on any respondent. The Owner shall not be responsible under any circumstances for any costs incurred by any respondents to this RFQ. The Owner reserves the right to modify, suspend or cancel this selection process at any time at its sole discretion.

**8. Project Description and Budget**

This project will provide long term sanitary sewer conveyance solutions for the Hamilton and Deerfield Township service areas through the construction of upgrades to the Fosters Lift Station a new gravity sewer under the Little Miami River. Once completed, these improvements will allow the County to convey flow across the river without the use of the Bear Run Lift Station and force main. The Bear Run Lift Station and force main will be demolished or will remain in place and operational as an emergency backup. These improvements are necessary to convey flow from growing residential communities in Hamilton and Deerfield Townships. The County serves approximately 9,320 existing sewer customers and registers between 80 and 120 new sewer accounts each year from several active residential developments including, the Villages of Classicway, the Villages of Hopewell Valley, Eagle’s Pointe, Providence, Wellington Estates, Eagle Court, Turning Leaf, Alexander Pointe, and the Woodlands of Morrow. These subdivisions, when fully constructed, will add an additional 2,300 homes. The location of the two lift stations is shown in **Figure 1**.

**Bear Run Lift Station**

The Bear Run Lift Station, located at 1751 Fosters-Maineville Road, Hamilton Township was designed and commissioned in 1990. The lift station was constructed with a 36,000 gallon wet well that contains six submersible pumps. Flows enter the wet well from the north through a 36-inch PVC gravity sewer pipe. The lift station conveys flows through 820 feet of 16- and 24-inch force main mounted on the Old 3’C Highway bridge that crosses the Little Miami River. The force main discharges into an 18-inch gravity sewer which flows approximately 665 feet to the Fosters lift station.

**Fosters Lift Station**

The Fosters Lift Station, located at 1852 Socialville-Fosters Road, Deerfield Township was commissioned in 2003 as a replacement to the old Fosters Lift Station. The lift station has two 33,000 gallon wet wells with an opening between the wells controlled with a gate. There are three submersible pumps installed in the west wet well and space for three additional submersible pumps in the east wet well. Flow enters a distribution chamber from the east through a 36-inch sanitary sewer. The Fosters sanitary lift station conveys flow through approximately 1300-feet of 24-inch force main to the Lower Little Miami Wastewater Treatment Plant. In addition to receiving flow from the Bear Run lift station, the Fosters lift station serves Kings Mills, King’s Island, and small portions of Deerfield Township.

### **Gravity Sewer to Fosters Lift Station**

Upon completion of the project, flow from Hamilton Township will bypass the Bear Run Lift Station by a new gravity under the Little Miami River that terminates at the Fosters Lift Station wet well. The existing wet wells at the Fosters Lift Station are not deep enough to accept the new gravity sewer, therefore a new wet well will need to be added to the station. The proposed concept alignment for the gravity sewer between the Bear Run and Fosters Lift Stations is shown in **Figure 1**.

## **9. Scope of Services**

CMR services for the Project will begin immediately upon the selection and will include but not be limited to, design and engineering review and preconstruction services, participation in developing the budget and updated construction cost estimates, participation in preparing the construction schedule, including identifying significant work milestones, prequalification of subcontractors to perform the required Work, construction, and close-out phases of the project. All work on the project will be performed with prequalified subcontractors. CMR services will be defined in an agreement with the Owner; the form of agreement, including general conditions of the contract for construction, will be provided to the short-listed firms during the RFP phase. The scope of the selected CMR firm's services will likely include, but may not be limited to the following:

### **Pre-Construction Services**

1. Participate in regularly scheduled design progress meetings with the Engineer, the various consultants, and the Owner. The CMR shall provide ongoing input with respect to constructability, construction costs, material selection/evaluations, construction duration and phasing, sequence of construction, other scheduling services, along with construction means and methods.
2. Coordinate/participate in meetings with the Owner and Engineer, utility companies, and regulatory agencies in order to expedite the design/permit process.
3. Identify and develop construction phasing and scheduling that will minimize interruptions to Owner operations.
4. Identify critical equipment with long-lead procurement schedules and initiate early procurement of long-lead items.
5. Develop comments, suggestions and cost models (estimates) throughout the phases of design.
6. Develop constructability and value engineering suggestions throughout the phases of design – considering different design/material/life cycle elements.
7. Permit acquisition / approval
8. Develop prequalification criteria for subcontractors and prequalify subcontractors for the Work, accordance with Ohio law.
9. Manage the effort of the development of potential subcontractor bidders' lists.
10. Develop a detailed, open book cost model and updates based on interim submittals for the Guaranteed Maximum Price (GMP) based on the nearly complete Construction Documents.

### **Construction Services**

1. Coordinate with the Owner, the Engineer, and other stakeholders as necessary.
2. Arrange for procurement of materials.
3. Schedule and manage construction operations.
4. Bid award (with Owner input, per Ohio law) and manage all construction related contracts.
5. Provide quality control and construction supervision.
6. Progress Scheduling / Compliance with Schedule
7. Regular Progress Meetings
8. Bond and insure the construction per Ohio law and the Contract Documents.
9. Address all construction related permitting requirements.
10. Provide prevailing wage reporting/accounting.
11. Maintain safe work site.
12. Provide closeout documentation (final wage reports, lien releases, O&M manuals, as-built, etc.)

### **Post-Construction Services**

1. Warranty Service
2. Warranty Close-out

## **10. Project Documents**

Burgess & Niple has completed geotechnical borings and study of the project area and has developed conceptual alignments for the sanitary sewer and water main along with preliminary plans for sanitary diversion structures and pump station expansion. These drawings are included with this request to provide an idea of the type and magnitude of work to be performed. Enclosed with this request are the following drawings:

Dwg S-1-1	Gravity Sewer Alignment 01 Exhibit (1 of 2)
Dwg S-1-2	Gravity Sewer Alignment 01 Exhibit (2 of 2)
Dwg S-2-1	Gravity Sewer Alignment 2 Exhibit (1 of 2)
Dwg S-2-2	Gravity Sewer Alignment 2 Exhibit (2 of 2)
Dwg W-2-1	Water Main Alignment
Dwg C-01	Proposed Foster Lift Station Site Plan
Dwg C-02	Foster Lift Station Grading Plan
Dwg MH01	Manhole Structures Plans and Sections
Dwg MH02	Diversion Structure Plans and Sections
Dwg MH03	Trench Alternatives
Dwg D-1	Fosters Lift Station Lower Plan
Dwg D-2	Fosters Lift Station Upper Plan
Dwg D-3	Fosters Lift Station Sections

## **11. Selection Process**

Pursuant to Ohio Revised Code and Ohio Administrative code, the selection process will be conducted as follows:

RFQ Phase: The first phase includes review and evaluation of qualifications submitted by firms interested in providing the required CMR services by the Owner's Evaluation Committee, in accordance with Ohio law. Firms may be invited to meet with the Evaluation Committee prior to the release of the short-list of CMR firms. A minimum of three (3) short-listed firms that are determined to be most qualified to provide the required CMR services will be released, unless it is determined that there are less than three (3) qualified firms.

RFP Phase: Technical and pricing proposals will be requested, using a request for proposals for that purpose, from the short-listed CMR firms. The technical and pricing proposals received will be reviewed and evaluated and, considering qualifications and technical/pricing information, the CMR firm determined to provide the best value for the Project will be selected, and Owner will enter contract negotiations with the selected firm.

## **12. Rights of the Owner**

The issuance of this RFQ constitutes only an invitation to present qualifications. The rights reserved by the Owner, which shall be exercised in its sole and absolute discretion, include without limitation the right to:

1. Require additional information from one or more Respondents
2. Conduct investigations with respect to the qualifications and experience of each Respondent
3. Visit and examine any facilities or projects referenced in the SOQs
4. Waive any defect or technicality in any SOQ received
5. Determine which Respondents are qualified to be short-listed to receive the RFP and submit Proposals to Owner in response to the RFP
6. Eliminate any Respondent that submits an incomplete, inadequate, or nonresponsive SOQ
7. Supplement or modify this RFQ prior to the date of submission of the SOQs
8. Issue one or more amendments to this RFQ extending the due dates for SOQs
9. Receive questions concerning this RFQ from Respondents, and to provide the same questions and corresponding answers to all Respondents
10. Cancel this RFQ in whole or in part if it is determined to be in the best interest of the Owner
11. Take any action affecting the RFQ, RFP, or the Project that is in the best interest of the Owner
12. Make public any and all documents associated with the Project, including documents submitted to the Owner by the Respondents only after the announcement of the determination of the best value firm.

## **13. SOQ Required Format and Information**

The format of the SOQ must be as outlined below. Narrative pages are to be 8-1/2 inches by 11 inches. All information provided shall be bound into a single volume. A clear and concise presentation of information is encouraged with a maximum page limit of 30 single-sided pages (or 15 double-sided pages), not including resumes of key staff, standard brochures, and financial information and supporting data. Audiovisual materials will not be accepted. Sales brochures are not desired unless directly related to the response and



referenced in the text. Below is additional information about the submission requirements to this RFQ.

Provide the following information for consideration by the Owner as part of the evaluation of Respondent's qualifications. The SOQ must be separated into tabbed sections as follows:

1. **Firm and Individual Background and Competence.** When providing the following information, if the firm is a national firm with a branch office in Ohio, provide information limited to the firm's Ohio office projects.
  - a. Firm Background – Provide description of firm, its history, and years of operation. Include details on the number of local and regional fulltime employees and professionals and their skills and abilities. Include consultants or subcontractors to be used for the project and past experiences with the firms. Describe the firm's experience with the CMR delivery method and its experience with water and wastewater infrastructure projects. Is the firm a newly created subsidiary of a parent company? If so, when was the subsidiary formed, what are the reasons for this action if they relate to this RFQ? How long has the CMR Firm existed, and how long have the key employees been associated with the firm?
  - b. Average Annual Revenue. What is the CMR Firm's average annual revenue **associated with sanitary sewer or public water** construction projects over the last seven (7) years?
  - c. CMR Firm's total annual revenue for each of the past 7 years.
  - d. Project Team - Provide a description of the project team organization including an organization chart. Include summary of the team proposed for the project (CMR Team), including any key consultants, subcontractors or specialty firms.
  - e. Project Team Qualifications - Provide qualifications of key project team personnel, their technical training, professional licenses, education, and experience. Provide short biographies for key team members such as Project Executive or Manager, Administrator, and Construction Technical Staff (estimating, budgeting, and scheduling).
  - f. Similar Project Experience – Highlight the CMR Team's recent relevant experience with large diameter sanitary sewers, lift stations, diversion structures, dewatering, shoring, and construction within waters of the state. Provide detailed project information including project name, location, completion year, project owner and contact information, brief description of the project and its relevance to this RFQ, firms from team associated with project and their role[s] on the project, construction cost, and project size. Respondent may include up to 10 projects.
  - g. CMR Delivery Experience – List experience with CMR delivery method on projects with construction costs of \$5 Million and larger.
2. **Ability to Provide the Required Services.**
  - a. Capacity or availability of the CMR Firm and CMR Team to provide the required services and Work for the Project. Include a list of current projects and the status of each and relevant information, for example budget, type of work, stage of completion, committed staff. Include percentage of time available of key staff to be committed to this Project.
  - b. Note geographic distribution of key staff and the suitability of this distribution for projects of this size and complexity
  - c. List the construction work that the CMR Team anticipates submitting bids to perform (site work, piping, electrical, instrumentation, mechanical, etc.)

**3. Past Performance.**

- a. Provide CMR Firm's project experience with water or wastewater pump stations and large diameter water or sewers or expansion projects in the last ten (10) years in excess of \$5,000,000. A minimum of five (5) such projects that the CMR Firm successfully completed, or nearing completion, is required. Each project must include or have included construction of cast-in-place concrete structures, installation of major equipment, and supporting piping, electrical, and control systems. Highlight CMR experience in listed projects. At least fifty percent (50%) of the construction labor-related items for each of the five projects shall have been completed by the CMR's Firm own workforce.
- b. Provide information on the ability to control construction costs on projects greater than \$5,000,000 construction costs where the original estimates/pricing were prepared by the CMR Firm. Show comparison of original estimates versus actual final costs and variance percentage only. Respondent may include up to 10 projects.
- c. Provide information on schedule management success by CMR Firm on projects greater than \$5,000,000 construction costs for which actual completion dates were significantly shortened versus original anticipated completion date or original completion dates were held despite unexpected challenges. Summarize each circumstance, and include up to 5 projects.
- d. Provide project reference and contact information for the CMR Firm's completed water and sewer projects outlined in this section.

**4. Financial Responsibility.**

- a. Provide the CMR Firms average annual revenues for the past seven (7) years for construction projects.
- b. Demonstrate bonding capacity as evidenced by a recently dated letter from the CMR Firm's surety agent listing current available bonding capacity, as well as total maximum bonding capacity. The letter should also state the surety agent's commitment to provide the required payment and performance bonds in accordance with OAC 153:1-4-02 if the CMR Firm is determined to be the firm that will provide the best value for the Project.

**5. Other qualifications consistent with needs of the Project**

- a. Location. What is the CMR Firm's proximity of its office to the Project site?
- b. Value added experience. Describe the CMR Team's past success through creative or innovative design review/preconstruction services, construction techniques or other similar methods. Provide a brief summary and include up to 5 examples.
- c. Insurance and Claims History. Describe the CMR Firm's insurance coverage, and list the last ten years' claims history for professional liability and commercial general liability
- d. Prior Performance with the Owner. Has the CMR Firm or part of the CMR Team worked on past projects with the Owner or Owner's Engineer, and describe why it may have been a success
- e. Familiarity with Area. Does the CMR Firm or Team have knowledge of the local area and good working relationships with local subcontractors and suppliers.

#### **14. SOQ Evaluation Process:**

The Owner's Evaluation Committee will review the qualifications received and will notify firms if they are included on the short-list of qualified firms.

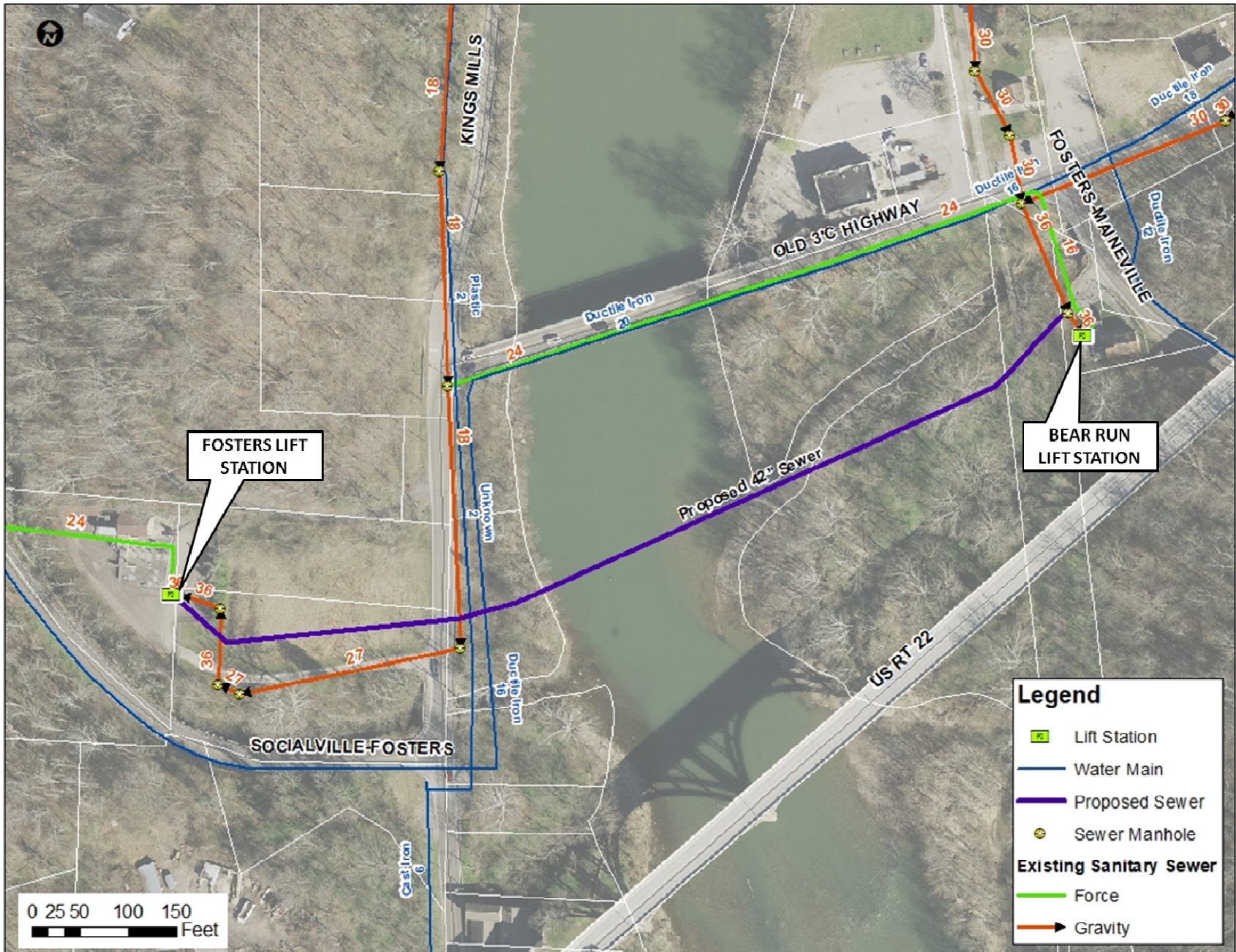
- A. Review for Responsiveness. Respondents will be considered responsive if the SOQ responds to the RFQ in all material respects and contains no irregularities or deviations from the RFQ. Each Respondent that is rejected for being nonresponsive will be provided a notice and explanation in writing of such a rejection.
  
- B. Qualifications Criteria. The qualifications criteria and basis of evaluation of SOQs are as follows:
  - 1. Competence to perform the required management services as indicated by the training, education, general experience of CMR Firm and employees to be assigned to this Project.
  - 2. Ability in terms of workload and the availability of qualified personnel, equipment, and facilities to perform the CMR services competently and in a timely manner, and experience working on similar types of Sanitary Sewer Projects.
  - 3. Past performance of the CMR Firm as reflected by evaluations of past clients related to similar projects, specifically considering factors of control of costs, quality of work, dispute resolution, administration of subcontracts and suppliers, and meeting deadlines
  - 4. Financial responsibility including evidence of the capability to provide the payment and performance bonds in accordance with Section 153:1-4-02 of the Ohio Administrative Code.
  - 5. Other qualifications that are consistent with the needs of the Project, including but not limited to:
    - a. Location or proximity of CMR Team offices to Project site
    - b. Value added experience as described above
    - c. Insurance and Claims History
    - d. Prior Performance with Owner, Lessee, or Architect
    - e. Familiarity with local area, subcontractors, and suppliers

Notice that all responses to this RFQ and any future RFP are public record and may be made available for inspection pursuant to Section 149.43 of the Ohio Revised Code at the conclusion of the procurement process. All SOQs and subsequent Proposals received in response to the procurement documents will become the property of the Owner and will not be returned.

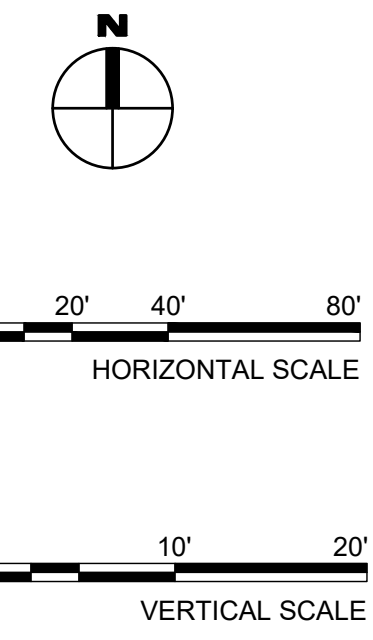
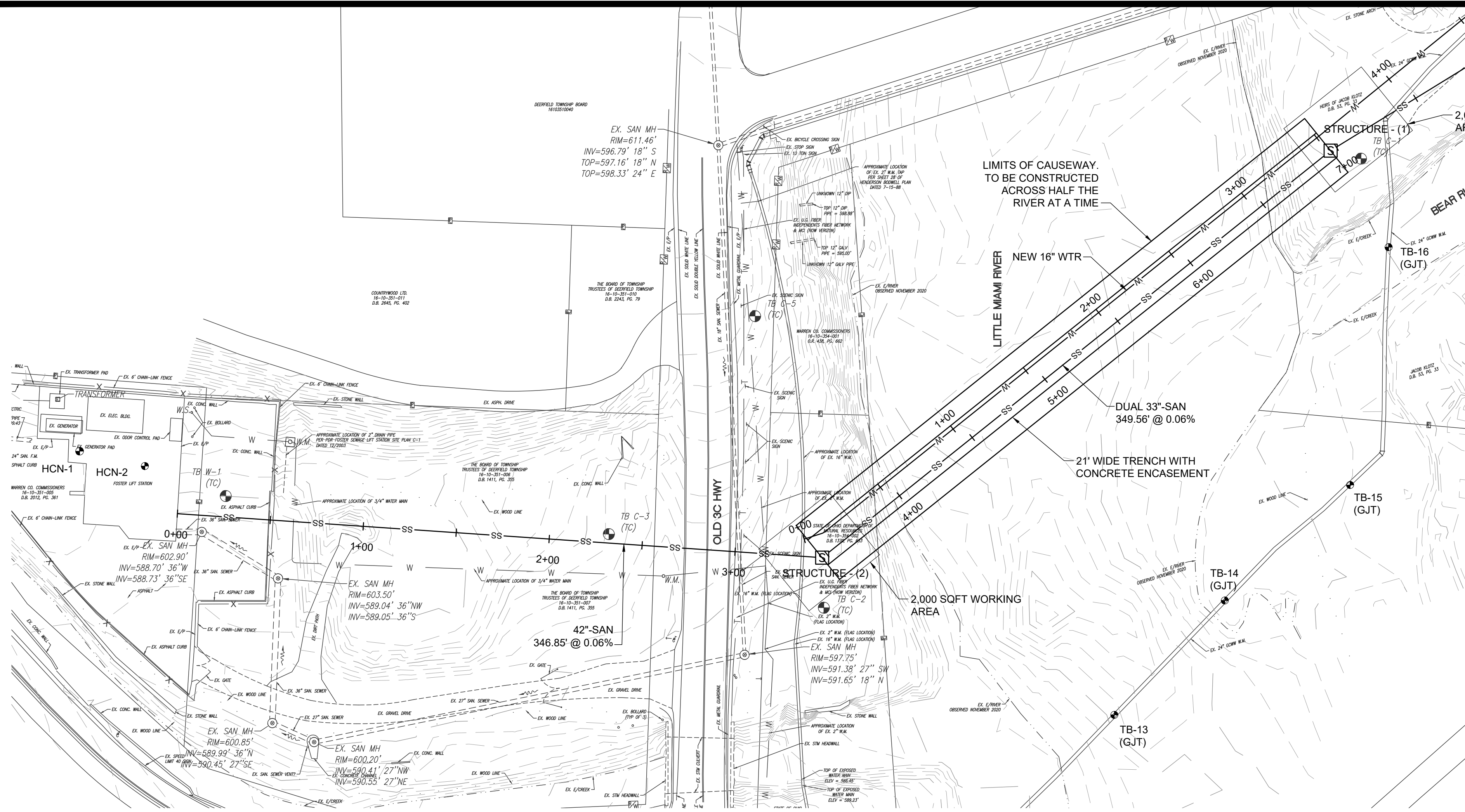
Each Respondent is responsible for all costs associated with preparing their submissions and participating in the selection or procurement process.

The Owner may reject any or all qualification statements received or cancel this process at any time for any reason and the Owner will have no liability for taking such action. The owner reserves the right to waive minor variations in the selection process.

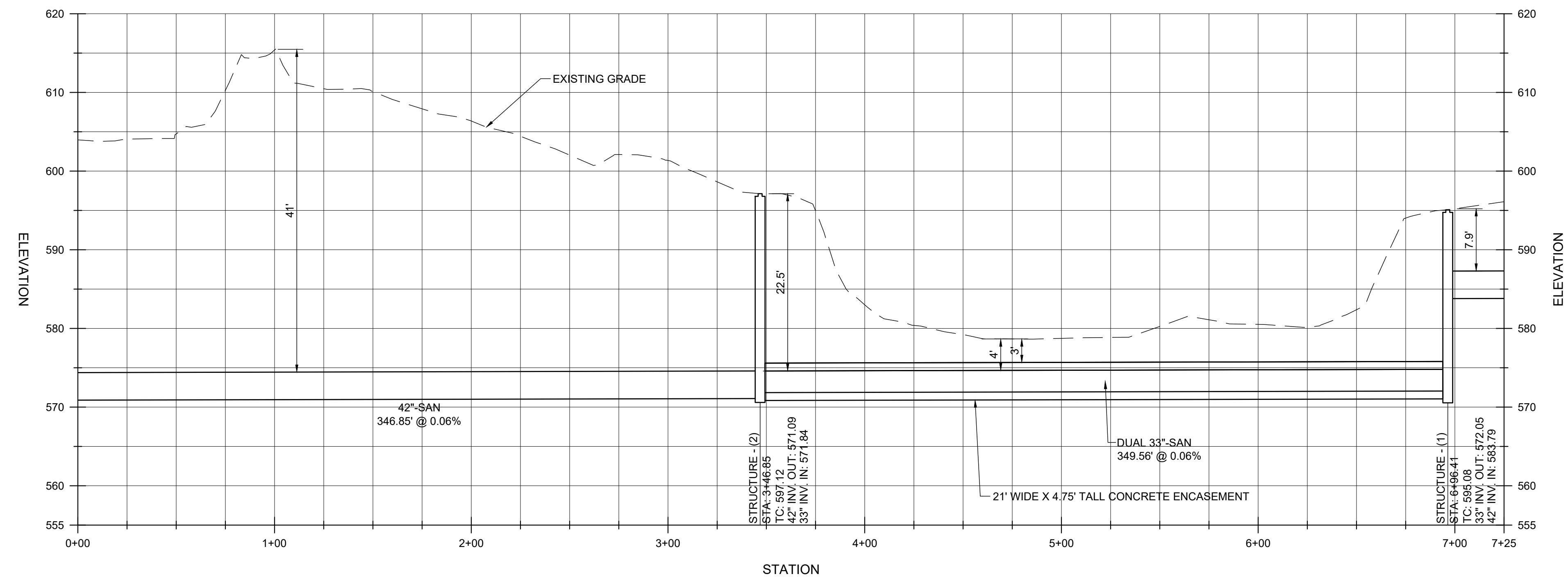
Thank you for your interest in this important Project.







S01 - ALTERNATIVE 1 PROFILE



525 VINE STREET,  
SUITE 1300  
CINCINNATI, OHIO 45202



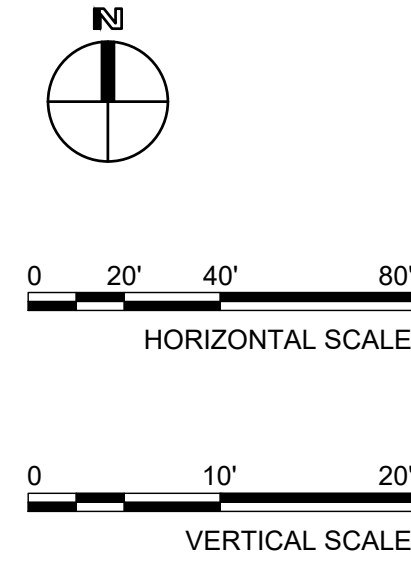
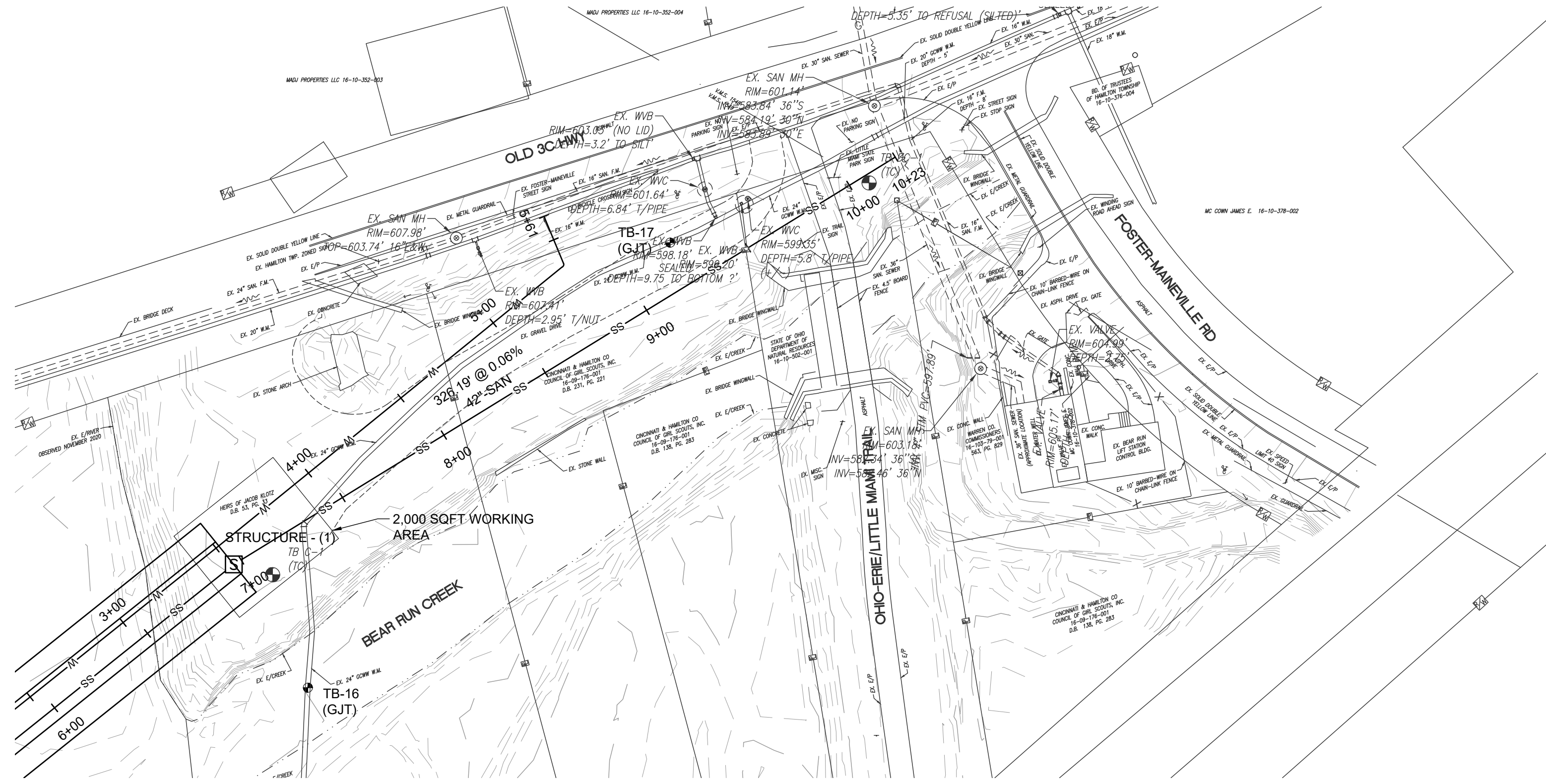
WARREN COUNTY  
WATER & SEWER DEPARTMENT

NO.	DESCRIPTION	DATE

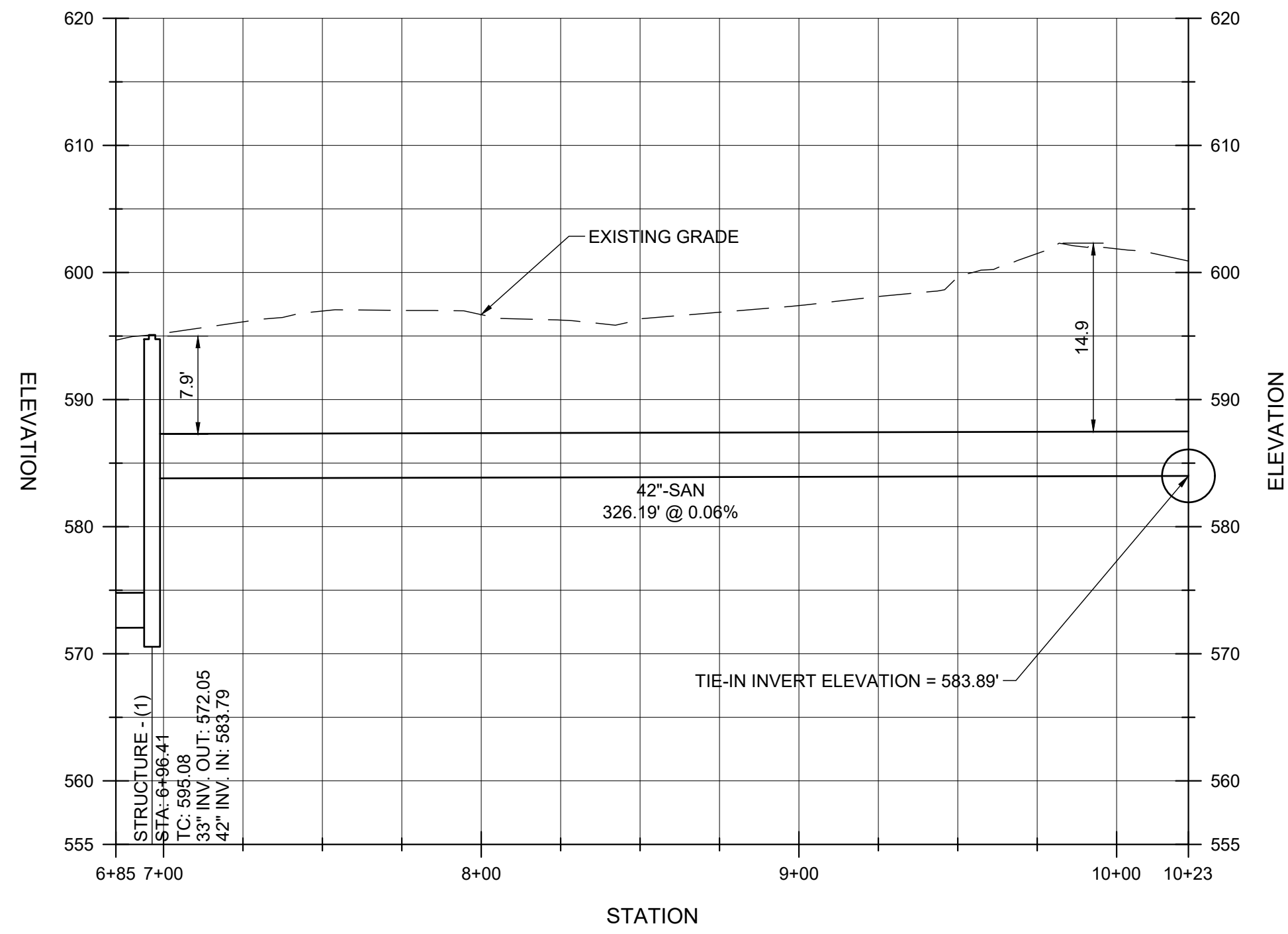
JOB NO:	PR59248
DATE:	AUGUST 2021
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
SCALE:	AS NOTED

GRAVITY SEWER  
ALIGNMENT 1  
EXHIBIT (1 OF 2)

**S-1-1**  
SHEET: XX OF XX



S01 - ALTERNATIVE 1 PROFILE



WARREN COUNTY  
WATER & SEWER DEPARTMENT

525 VINE STREET,  
SUITE 1300  
CINCINNATI, OHIO 45202

**B&N**  
burgessniple.com

WARREN COUNTY  
WATER & SEWER DEPARTMENT

NO.	DESCRIPTION	DATE

JOB NO:	PR59248
DATE:	AUGUST 2021
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
SCALE:	AS NOTED

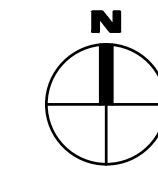
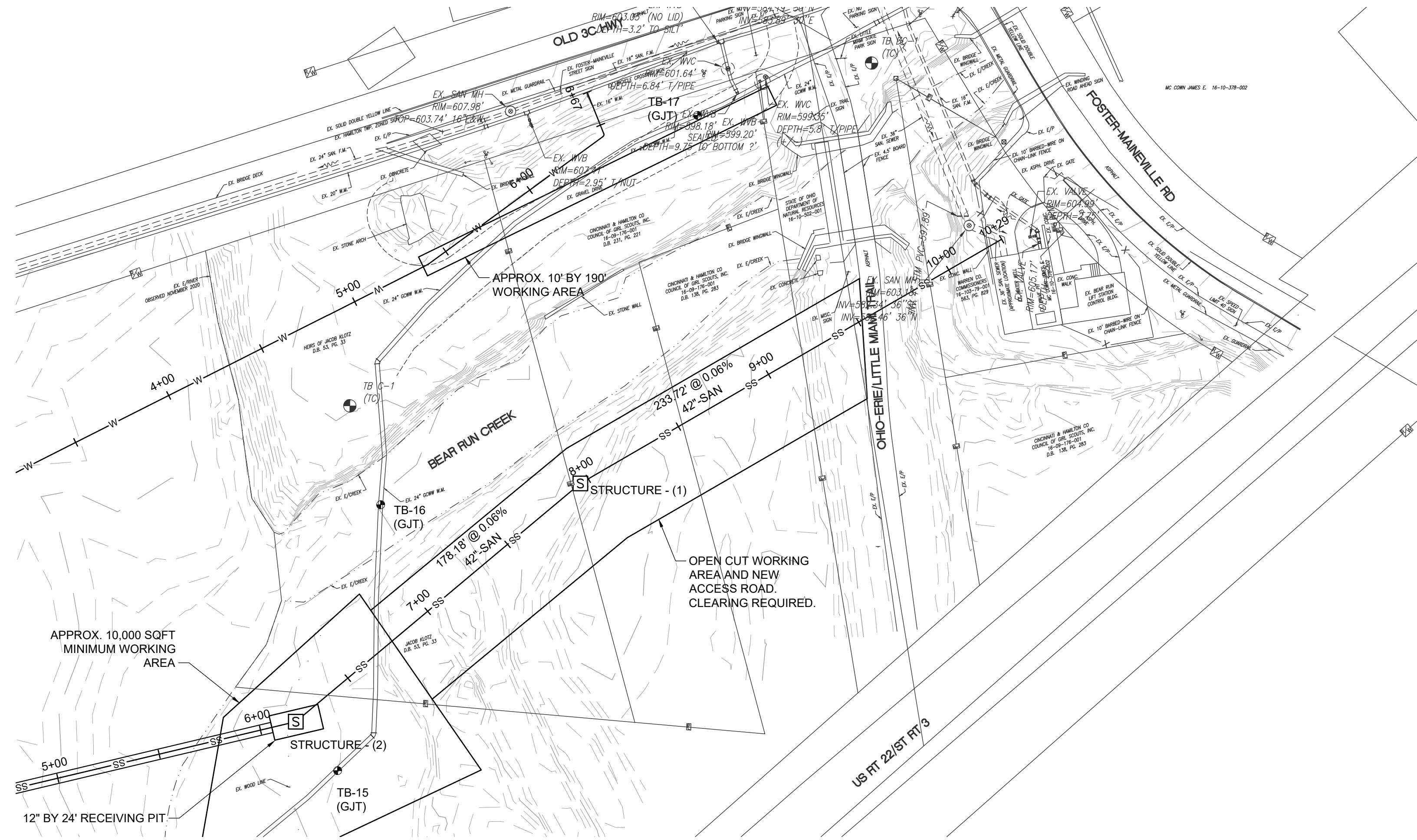
GRAVITY SEWER  
ALIGNMENT 1  
EXHIBIT (2 OF 2)

**S-1-2**

SHEET: XX OF XX



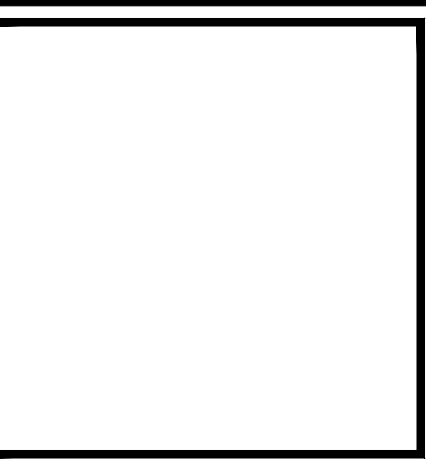
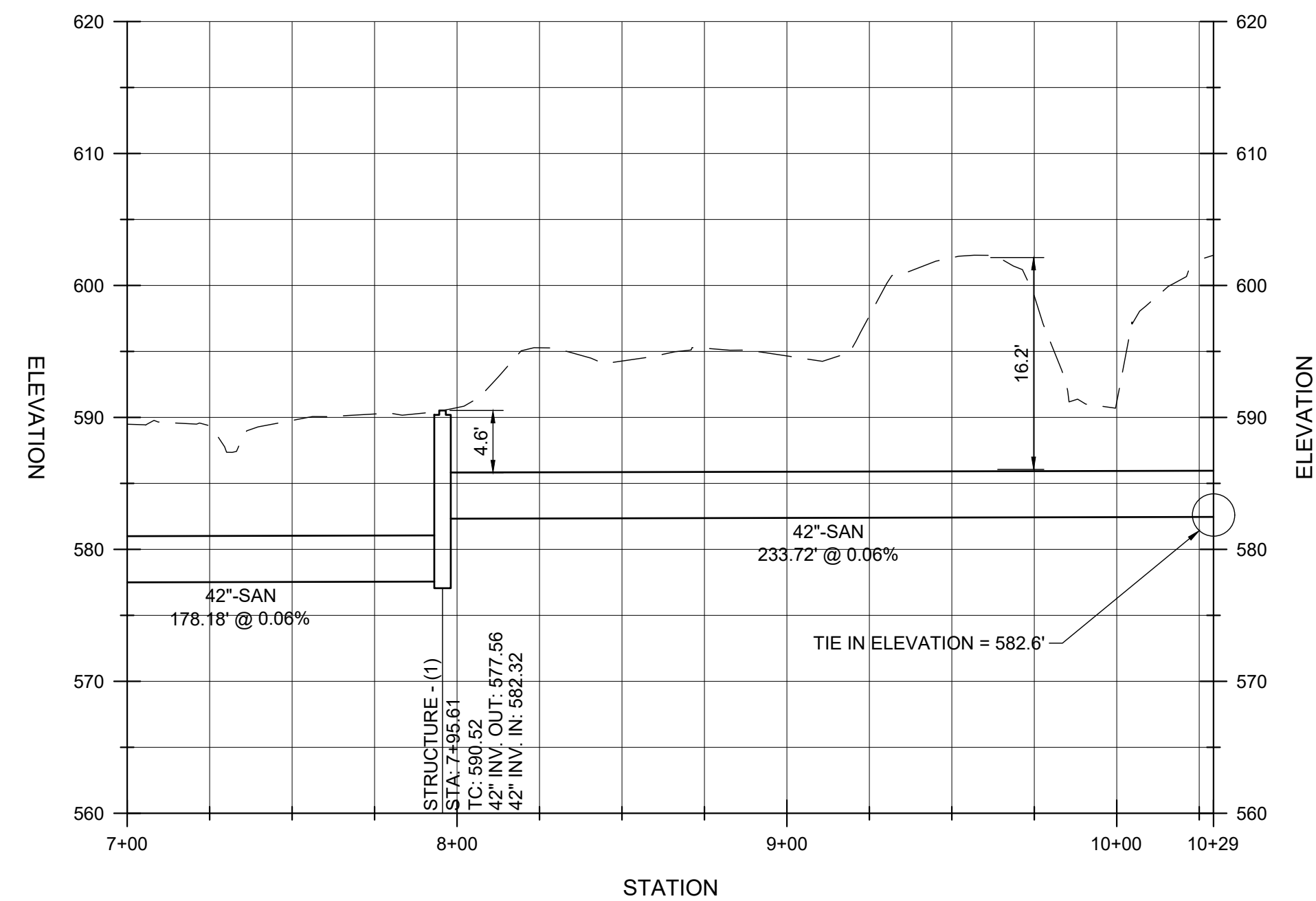




0 20' 40' 80'  
HORIZONTAL SCALE

0 10' 20'  
VERTICAL SCALE

S02 ALTERNATIVE 2 PROFILE



525 VINE STREET,  
SUITE 1300  
CINCINNATI, OHIO 45202

**B&N**  
burgessniple.com

WARREN COUNTY  
WATER & SEWER DEPARTMENT

NO.	DESCRIPTION	DATE

JOB NO:	PR59248
DATE:	AUGUST 2021
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
SCALE:	AS NOTED

GRAVITY SEWER  
ALIGNMENT 2  
EXHIBIT (2 OF 2)

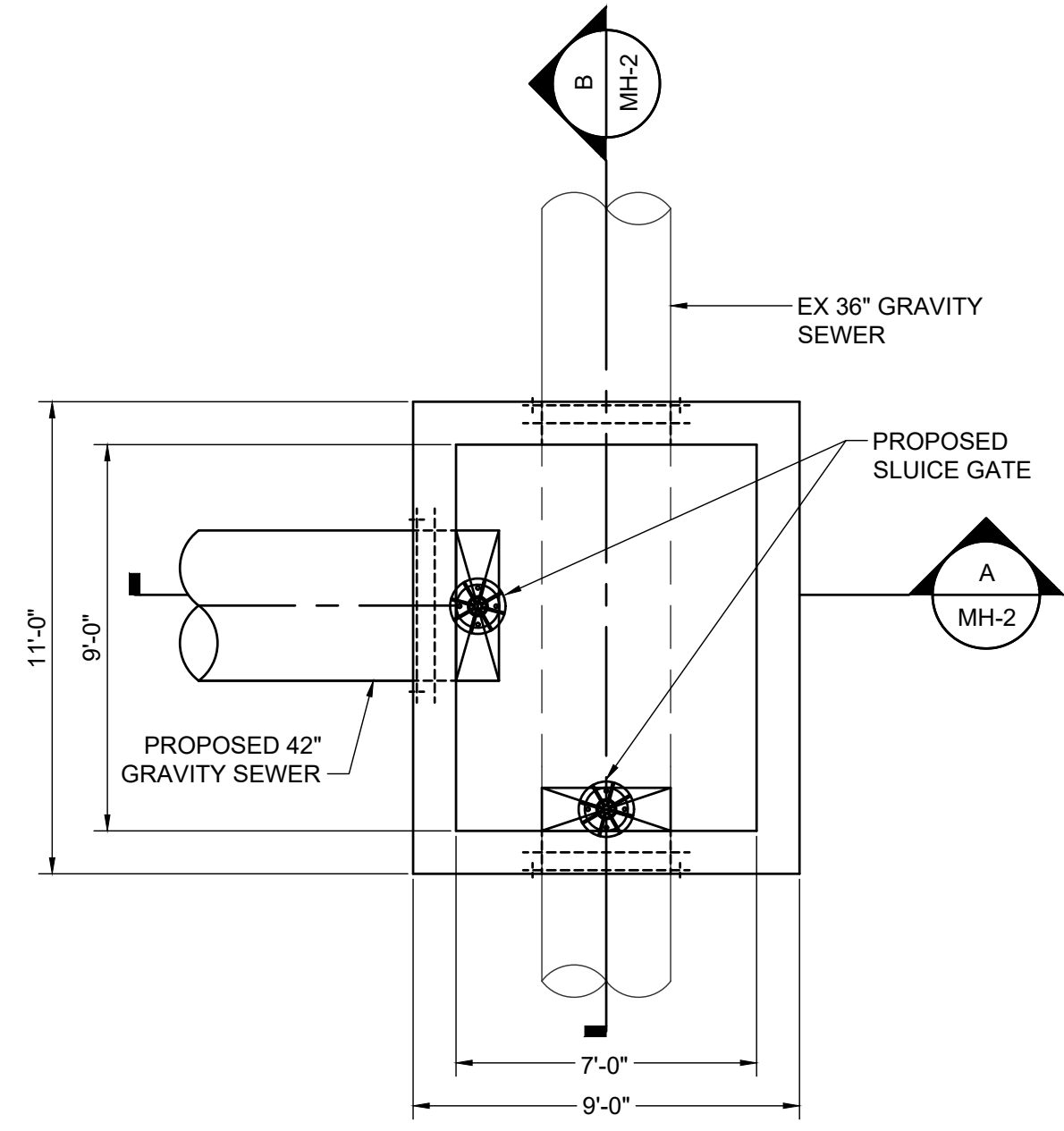
**S-2-2**

SHEET: XX OF XX



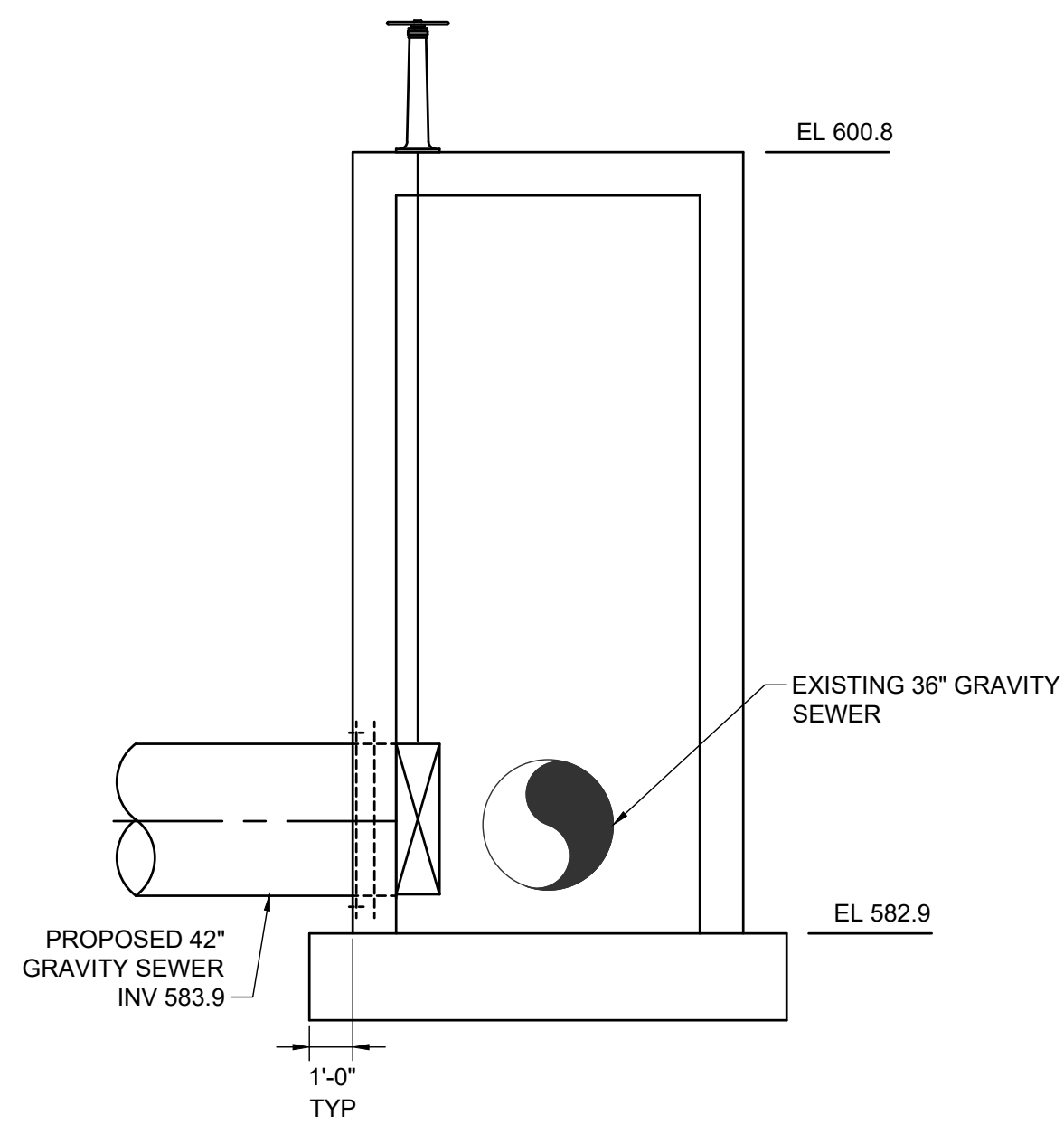






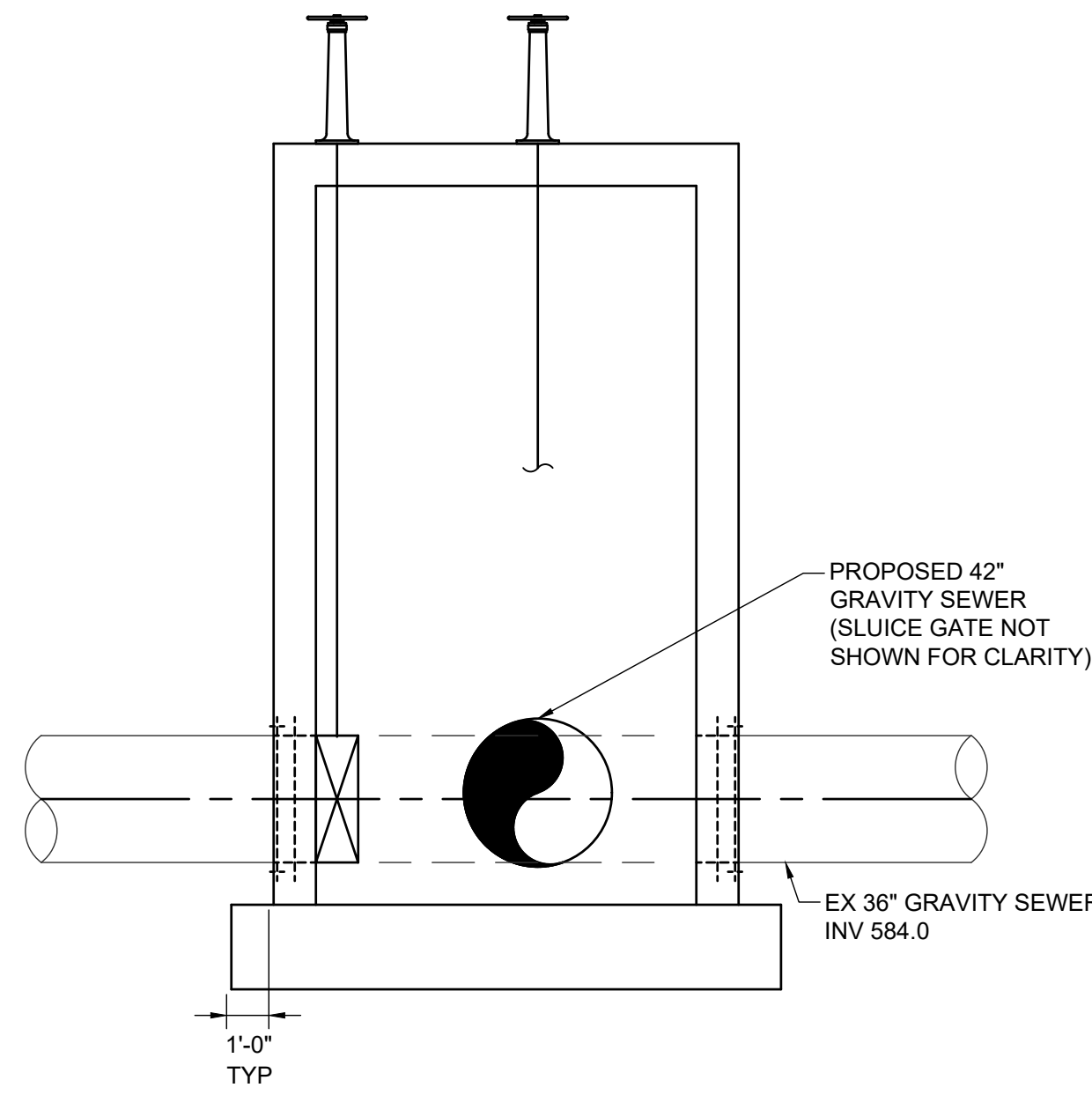
**DIVERSION CHAMBER**

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



**A**  
MH-2 **DIVERSION CHAMBER SECTION**

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



**B**  
MH-2 **DIVERSION CHAMBER SECTION**

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

525 VINE STREET,  
SUITE 1300  
CINCINNATI, OHIO 45202

**B&N**  
burgessniple.com

WARREN COUNTY  
WATER & SEWER DEPARTMENT

NO.	DESCRIPTION	DATE

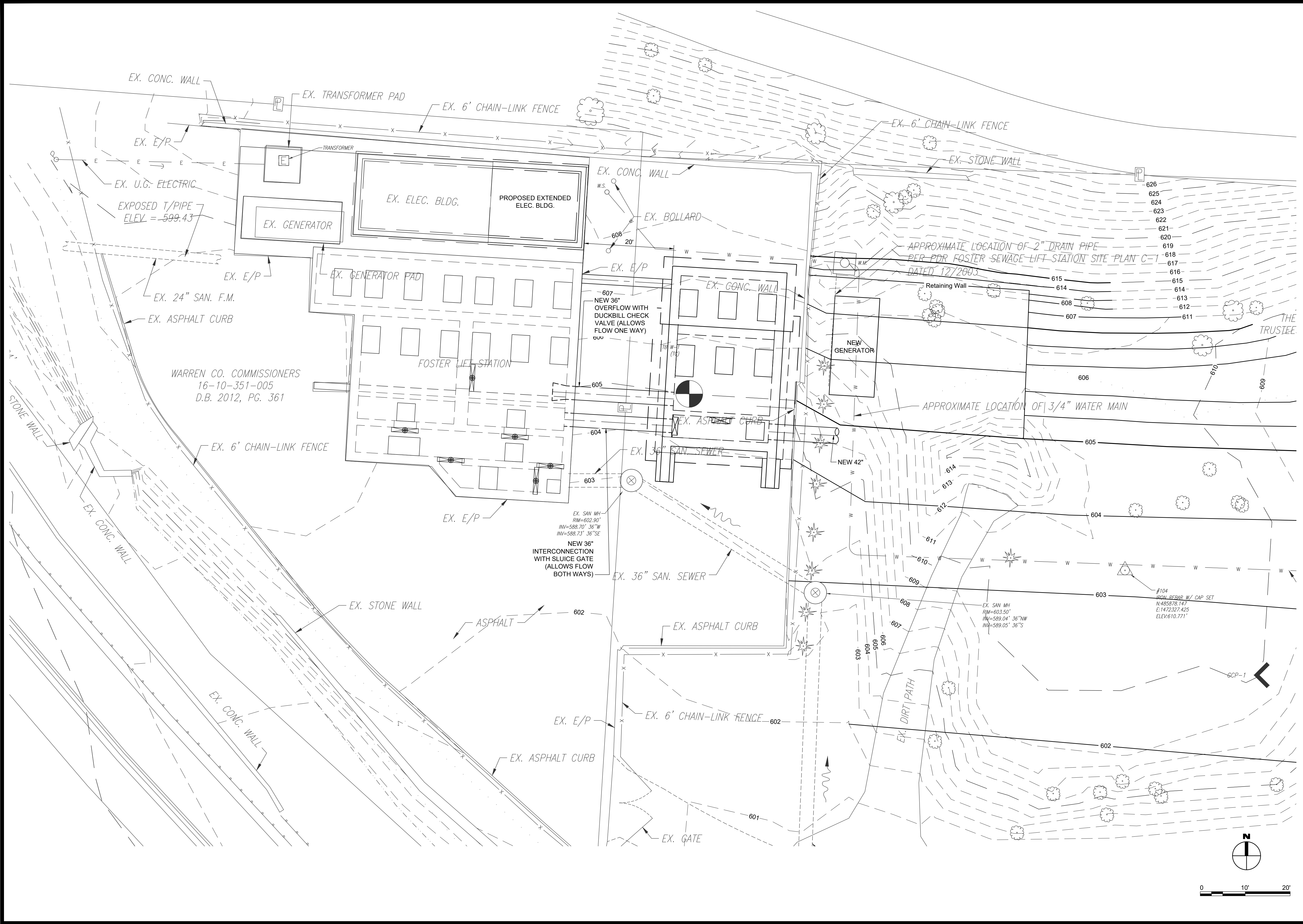
JOB NO: PR59248  
DATE: AUGUST 2021  
DESIGNED BY: XXX  
DRAWN BY: XXX  
CHECKED BY: XXX  
APPROVED BY: XXX  
SCALE: AS NOTED

DIVERSION  
STRUCTURE  
PLANS AND SECTIONS

**MH-2**  
SHEET: XX OF XX



## **Appendix E – Lift Station Concepts**



525 VINE STREET,  
SUITE 1300  
CINCINNATI, OHIO 45202

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WARREN COUNTY  
WATER & SEWER DEPARTMENT

NO.	DESCRIPTION	DATE

JOB NO:	PR59248
DATE:	AUGUST 2021
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
SCALE:	NONE

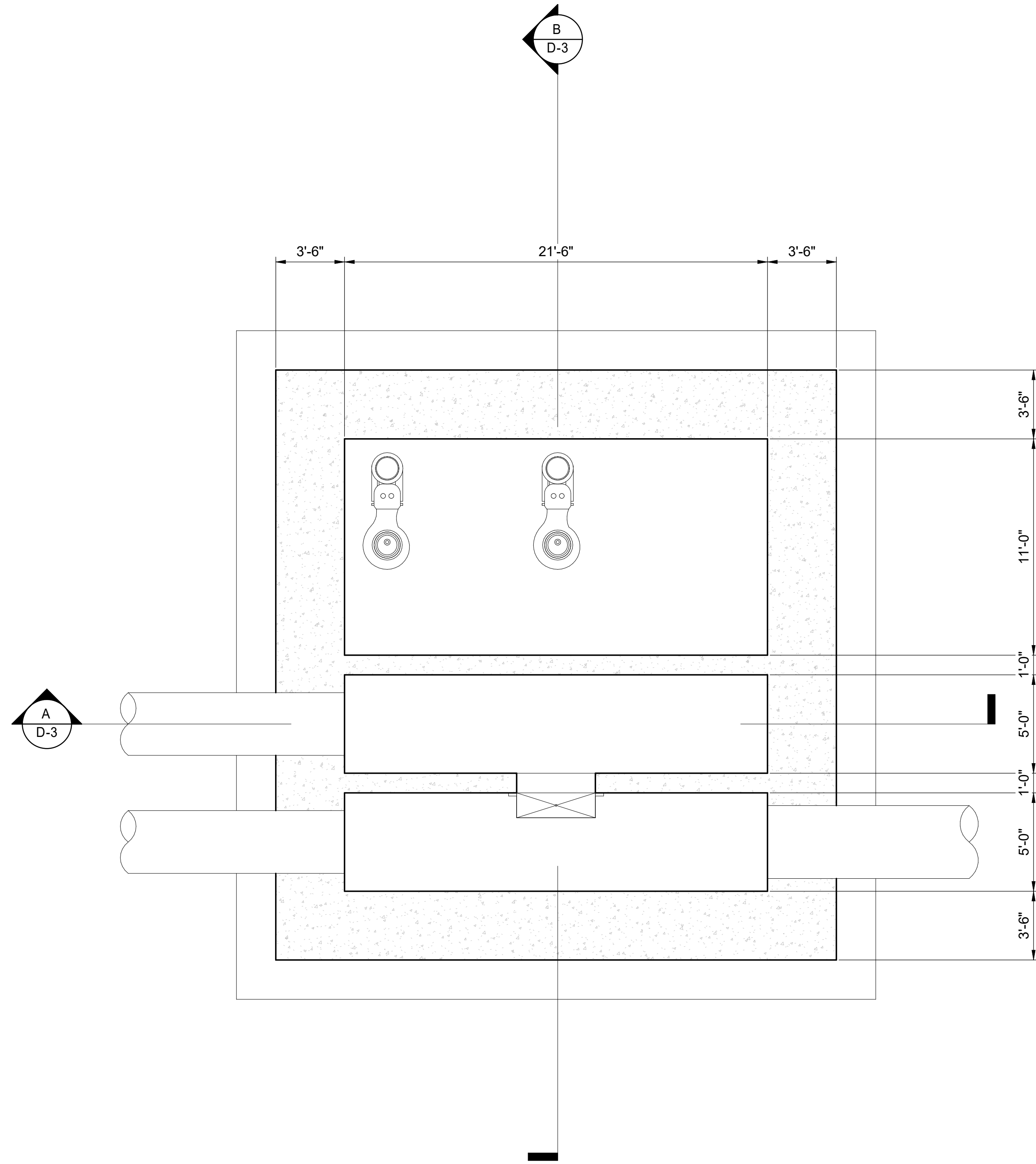
PROPOSED  
FOSTERS LIFT STATION  
SITE PLAN

C-1

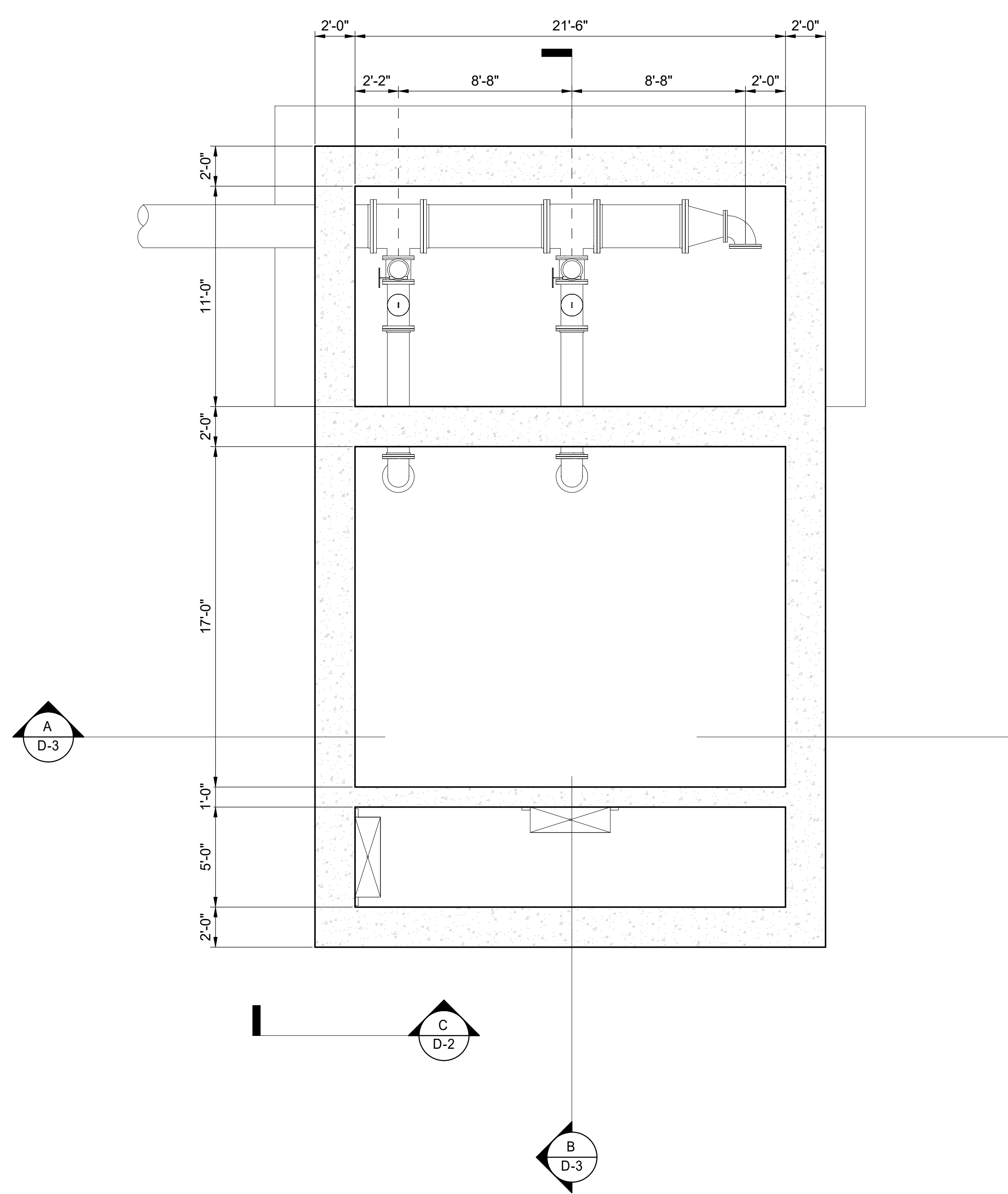
SHEET: XX OF XX







**1** WET WELL PLAN AT EL 565  
 SCALE: 1/4" = 1'-0"



**2** VALVE VAULT PLAN AT EL 599  
 SCALE: 1/4" = 1'-0"

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 SUITE 1300  
 CINCINNATI, OHIO 45202

CITY OF LEBANON  
 GLOSSER RD PUMP STATION  
 AND EQ IMPROVEMENTS

REVISIONS	
NO.	DESCRIPTION DATE

JOB NO:	PR59364
DATE:	AUGUST 2021
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
SCALE:	1/4" = 1'-0"

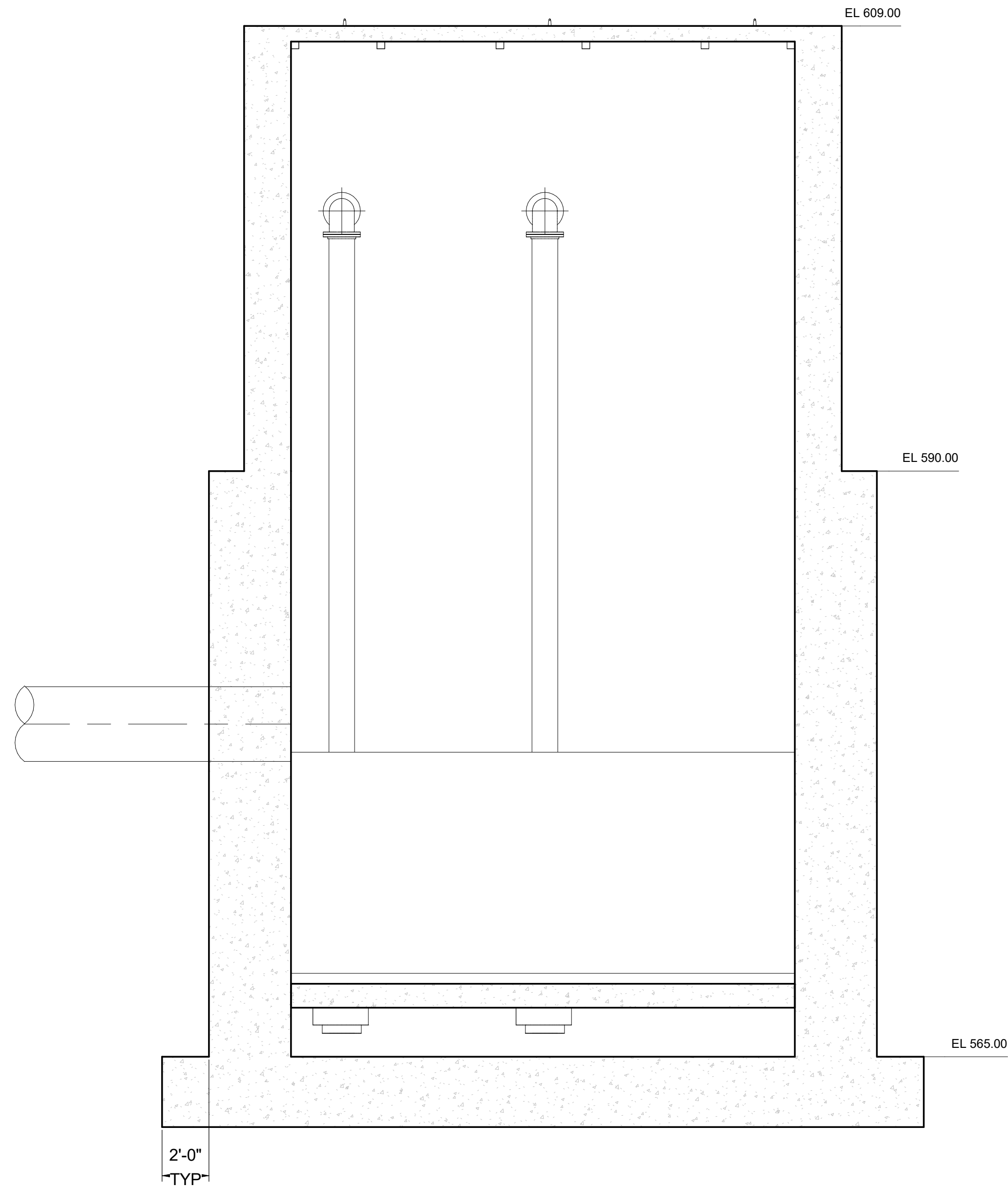
FOSTERS LIFT  
 STATION  
 LOWER PLAN

SHEET IDENTIFICATION  
**D-1**  
 SHEET: OF

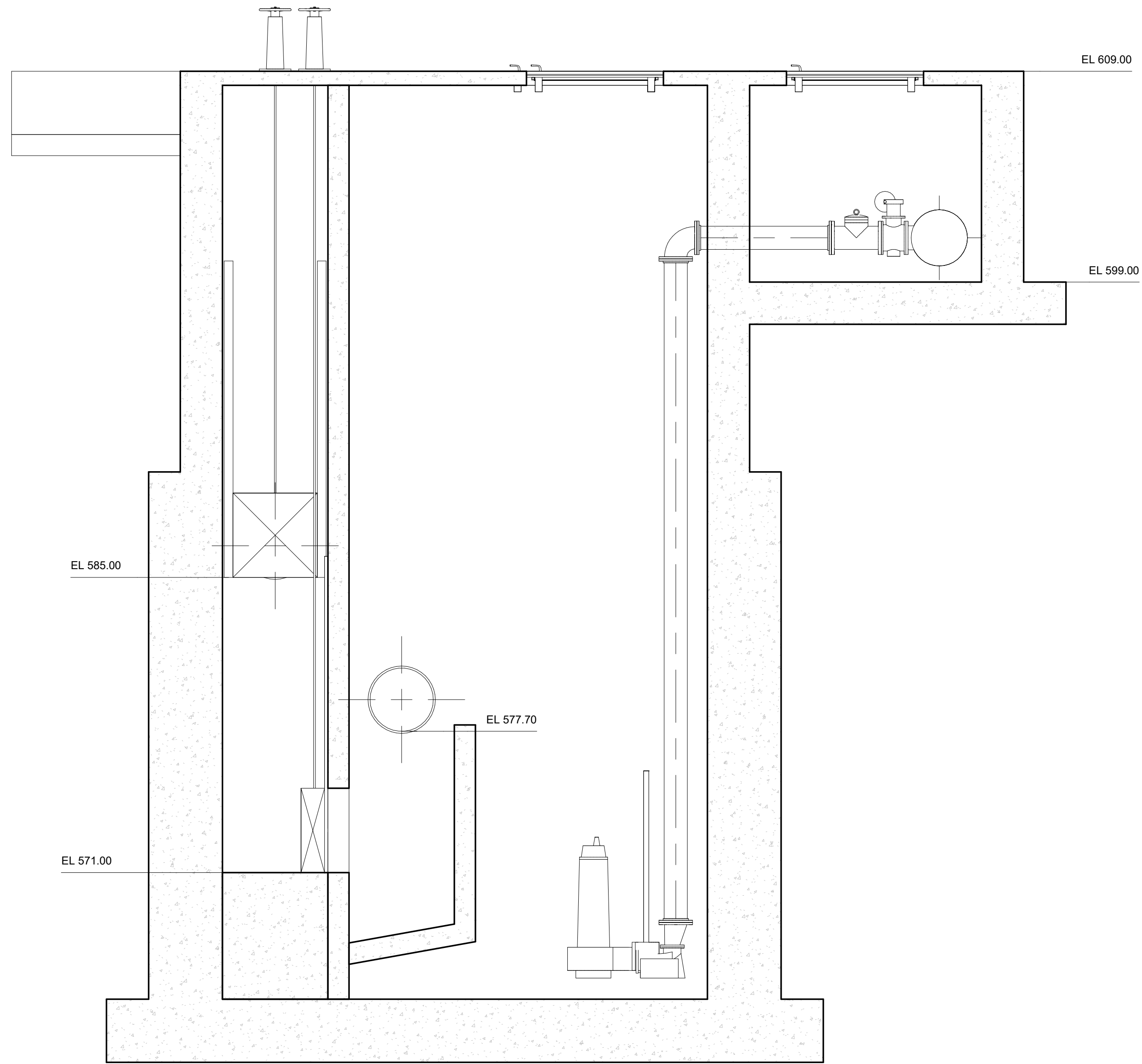




8/18/2021 2:44:29 PM  
 P:\PR59248\cadd\Revit\99-Scrap\Warren Co New Foster LS\_Central\_2020\_colleen.doss.rvt



**A** SECTION  
 D-3 SCALE: 1/4" = 1'-0"



**B** SECTION  
 D-3 SCALE: 1/4" = 1'-0"

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 SUITE 1300  
 CINCINNATI, OHIO 45202

CITY OF LEBANON  
 GLOSSER RD PUMP STATION  
 AND EQ IMPROVEMENTS

NO.	DESCRIPTION	DATE
REVISIONS		

JOB NO:	PR59364
DATE:	AUGUST 2021
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
SCALE:	1/4" = 1'-0"

FOSTERS LIFT  
 STATION  
 SECTIONS

SHEET IDENTIFICATION  
**D-3**  
 SHEET: OF