



CITY OF HAVELOCK

Post Office Box 368
Havelock, NC 28532

INVITATION TO BID

Pursuant to North Carolina General Statutes §143-129 the City of Havelock invites formal bids on the following:

Bids must be submitted in accordance with the attached specifications and must include an itemized schedule of quantity, unit price and total. Bids must be sealed and clearly marked on the outside of the envelope:

“2024 Influent Pump Station #2 Rehabilitation
304 Jackson Dr., Havelock, NC. 28532”

Address Bids to: **Kimberly Walters, Director of Finance**
 City of Havelock
 P.O. Box 368
 1 Governmental Ave.
 Havelock, NC 28532
 Email: Bids@havelocknc.us (formal bids cannot be emailed)

Bids will be accepted until **12:00 p.m. (EST) on Wednesday, May 29, 2024** at which time they will be reviewed in the office of the City Finance Director.

Bids on contracts for construction or repair work in the formal bidding range must be accompanied by a bid bond or deposit in the amount of not less than 5 percent of the bid. Bid bonds shall be enclosed in a separate envelope and attached to the outside of the sealed bid package. This security is held by the City of Havelock to guarantee that the successful bidder will execute the contract and provide performance and payment bonds if required. If a bidder backs out of his or her bid or refuses to enter into a contract, the City of Havelock may retain the bid deposit or seek payment under the bid bond. Bids will be considered incomplete if not accompanied by a bid bond or deposit. The bids are good for 75 days after opening. The winning bidder will be issued a Notice To Proceed (NTP) along with a Purchase Order. The performance period is 180 calendar days from the NTP.

Bidders are cautioned not to submit bids until the proposed requirements and specifications have been carefully examined. It will be considered that bidders will have satisfied themselves as to the accuracy of the specifications. No proposal will be considered unless prices are submitted for all items requested in any section. The City reserves the right to change the amount of quantities.

All bids submitted should be to the desired specifications. Any exceptions to the specifications will be evaluated based on the best interest of the City. Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and bidder will be held responsible therefore. Deviations shall be explained in detail. The bidder shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.

The names of certain brands or makes denote quality standard in the article desired, but do not restrict bidders to the specific brand, make or manufacturer named. They are meant to convey to prospective bidders the general style, type, character and quality of the article desired.

The successful bidder on all construction contracts will be required to conduct the operation in accordance with all Federal, State, and Municipal health and safety rules, regulations and laws applicable to the operation. The

successful bidder may be asked to provide the City with a copy of the company's safety plan prior to commencing work. For all projects over \$30,000, a general contractor's license must be furnished to the City if applicable.

Certificate to Transact Business in North Carolina: As a condition of contract award, each out-of-State Vendor that is a corporation, limited-liability company or limited-liability partnership shall have received, and shall maintain throughout the term of The Contract, a Certificate of Authority to Transact Business in North Carolina from the North Carolina Secretary of State, as required by North Carolina law. A contract requiring only an isolated transaction completed within a period of six months, and not in the course of a number of repeated transactions of like nature, shall not be considered as transacting business in North Carolina and shall not require a Certificate of Authority to Transact Business.

The City will not sell bid packages. Plans, specifications, and addenda may be viewed and obtained online at www.havelocknc.us. Click on: "Bid on a Contract"; "Current Bids". The Bidder's List is maintained by Vendor Registry. Registration for the Bidder's List is made online at www.havelocknc.us. Click on: "Bid on a Contract"; "Vendor login/Registration".

N.C.G.S. (North Carolina General Statutes), specifically §160A-20.1(b), prohibit the City from entering into contracts with contractors and subcontractors who have not complied with the requirement of Article 2 or Chapter 64. The Contractor shall submit the E-Verify Affidavit, located in the Bid Proposal section, with their bid. Bids that do not include this Affidavit will be considered non-responsive.

N.C.G.S 147-86.42-84 requires that contractors with a North Carolina Local Government must not utilize any subcontractor found on the State Treasurer's Iran Divestment list or Companies Boycotting Israel list. The referenced lists can be found on the State Treasurer's website at the address www.nctreasurers.com and will be updated every 180 days.

The City of Havelock reserves the right to reject any or all proposals and to purchase items from the state contract in the efforts to award the contract to the bidder it deems to be for the best interest of the City.

MODIFICATION AND WITHDRAWAL OF BIDS. Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids. A request to withdraw a bid may be made to the Owner within 72 hours after Bids are opened in accordance with NCGS § 143-129.1 Requests to withdraw a Bid will be subject to the requirements of NCGS §143-129.1 and in the sole discretion of the City of Havelock Finance Officer.

This institution is an equal opportunity provider, and employer.

Contact person(s) for information on this bid:

For questions in regards to the bid specifications, the City requires and only responds to questions submitted in writing and sent via email to: Bids@havelocknc.us. Questions must be received by **5:00 PM (EST) on Thursday, May 16, 2024 and will be answered by 5:00 PM (EST) on Thursday May 23, 2024.**

Today is the 30th day of April 2024.

Published: Vendor Registry April 30, 2024

CITY OF HAVELOCK

Kimberly Walters
Director of Finance



**STATE OF NORTH CAROLINA
AFFIDAVIT
CITY OF HAVELOCK**

I, _____ (the individual attesting below), being duly authorized by and on behalf of _____ (the entity hereinafter "Employer") after first being duly sworn hereby swears or affirms as follows:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of employee through E-Verify in accordance with NCGS §64-26(a).
3. Employer is a person, business entity, or other organization that transacts business in the State and that employs 25 or more employees in this State. (mark Yes or No)
 - a. YES _____
 - b. NO _____
4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project, Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

This _____ day of _____, 20_____.

Signature of Affiant: _____

Print or Type Name: _____

State of North Carolina County of _____

Signed and sworn to (or affirmed) before me, this the _____ day of _____, 20_____.

Signature of Notary Printed Name of Notary

My Commission Expires: _____

Bid Sheet

Line Item 1: _____

Line Item 2: _____

Additional Alternate 1 _____

Additional Alternate 2 _____

NC Sales Tax: _____

Delivery Cost (if applicable): _____

Total Cost to City: _____

Bids must include an itemized schedule by quantity, unit price and total for each work element.

The City of Havelock will reserve the right to accept any, all or none of the portions of work listed on Line Items and/ or additional Alternates.

Company Name: _____

Company Address: _____

Contact Person: _____

Telephone Number: _____

Email Address: _____

NC Contractor's License Type and Number: _____

Number of Addendums Acknowledged (circle one): N/A 1 2 3 4

As of the date listed below, the vendor or bidder listed above is compliant with N.C.G.S. 147-86.42-84, the Iran Divestment Act and the Companies Boycotting Israel Act.

Authorized Signature: _____

Print Name of Authorized Signature: _____

Title: _____

Address Bid to: Kimberly Walters, Director of Finance
City of Havelock
P.O. Drawer 368
1 Governmental Avenue
Havelock, NC 28532
Bids@Havelocknc.us (formal bids cannot be emailed)

Please indicate the Bid name on the outside of the envelope.

2024 Influent Pump Station #2 Rehabilitation

304 Jackson Dr., Havelock, NC. 28532

Objective:

Rehabilitate the IPS #2 at the Havelock Waste Water Treatment Plant with new piping, pump rails, check valves and hatches.

Scope:

There are four portions of work designated for the refurbishing of the IPS #2. There are two Line Items and two additional Alternates for which the Contractor is requested to provide separate pricing. The City of Havelock will reserve the right to accept any, all or none of the portions of work listed on Line Items and/ or additional Alternates.

The wet well within IPS #2 is ten feet in diameter and is twenty-four feet deep. The valve vault is ten-feet in diameter and six feet deep. There are three 27 horse power pumps within the wet well, each attach separately to ten-inch base elbows and riser piping. There are three ten-inch DIP discharge lines within the valve vault; these lines tie together and discharge from the valve vault by use of a twelve-inch DIP Discharge line. Within each of the three ten-inch lines in the valve vault, there is one isolation valve and one check valve.

Line Item #1: Wet Well Rehabilitation

Within the Wet Well, the guide rails, bracketry, and anchors are stainless steel. All piping, riser pipes (both vertical and horizontal), base and top riser elbows are ductile iron. All piping, riser pipes (both vertical and horizontal), base and top riser elbows, guide rails, and bracketry and anchors are to be removed and replaced with new material to match existing. Upon the completion of the removal of all components within the wet well the wet well is to be cleaned utilizing NACE 6/SSPC-13 joint surface preparation standards and IRIC technical guidelines. Upon completion of the surface preparation, the well is to be resurfaced by means of applying non-shrink grout, no less than half inch in thickness to the bottom, walls, and top of the wet well. Upon complete curing of the non-shrink grout there shall also be an epoxy mortar system such as Raven 405 (or equivalent) applied to the wet well. See figure 2.

- a. The contractor shall be responsible for all bypass connections and plugging.
- b. The contractor shall be responsible for removal of any sediment that is remaining in the wet well after the installation of the bypass and plugging.
- c. The City of Havelock will be responsible for having a contractor remove the three 27 horse power pumps from the wet well upon the removal of any remaining sediment.
- d. The contractor shall be responsible for removal of all components from the inside of the wet well, including the base ninety elbows, riser pipes, top riser elbows, pressure transducer, pressure transducer casing, guiderails, bracketry, and anchors.
- e. The three ten-inch riser pipes are 16' long and have a base ninety-degree elbow on the bottom with pump retainer brackets attached, and a top riser ninety-degree elbow on the top.
- f. The contractor will be responsible for replacing the Halliday Lids within the lid of the wet well. The first lid is 30" by 30", the second lid is 9'6" by 42". The Halliday lids are to be replaced utilizing series W2S Halliday Lids or equal.
- g. The contractor will be responsible for removal and disposal of all material including pipes, elbows, guiderails, pressure transducer casing, bracketry and anchors that are removed from service. The pressure transducer will be given to a representative of the City of Havelock.

- h. Upon removal of all internal components the contractor shall be responsible for having the inside of the wet well cleaned. All cleaning and surface preparation will be in accordance with NACE 6/SSPC-13 joint surface preparation standards and IRCI technical guidelines.
- i. The contractor shall be responsible for internally inspecting the wet well for any exposed cracking, pin holing, or spalling within the bottom, sidewall, and top of the wet well.
- j. The contractor shall be responsible for making any needed concrete repairs. The concrete repairs shall be made using a one or two component polymer-modified or silica fume enhanced trowel grade cementitious mortar.
- k. The contractor shall coat the internal bottom, sidewalls, and top with a non-shrink grout that conforms to CRD-C 621 and ASTM C 1107. The non-shrink grout shall be applied at a minimum thickness of one-half inch (.5”).
- l. The contractor shall be responsible for surface preparation and coating all ductile iron piping and fittings. The material that shall be utilized shall be Raven 405 or equivalent. The coating system can be applied in either one or two coats, achieving a total DFT of 100 to 120 mil.
- m. The contractor shall be responsible for the coating of the inside of the wet well upon complete curing of the non-shrink grout. The material that shall be utilized shall be Raven 405 or equal.
- n. The coating system shall be applied in one or two coats, achieving a total DFT of 100 to 120 mils.
- o. The contractor shall be responsible for following the recommendations for cure by the manufacturer listed on the coating material PDS.
- p. The contractor shall be responsible for reinstalling new components within the wet well; including all piping, fittings, pressure transducer, pressure transducer casing, guiderails, bracketry, and anchors. All piping and fittings shall be Ductile Iron. The guide rails, bracketry, bolts, and anchors shall be 316 stainless steel. All bolting shall have Marine Grade Anti-Seize lubricant applied to the threads prior to assembly. The pressure transducer casing is a schedule 40 PVC and is to be replaced in kind.
- q. The contractor shall be responsible for following all OSHA Standards for confined space entry. The contractor shall be responsible for supplying and utilizing all required confined space entry safety equipment during the course of this project.

Line Item #2: Valve Vault Rehabilitation

Within the valve vault there are three ten-inch lines entering the valve vault from the wet well. These three lines are the DIP discharge Pipes; these pipes are currently two feet deep, underneath concrete, and span between the wet well and valve vault. Upon entering the valve vault, each of these three lines connect to one plug isolation valve, one check valve, and one twelve by ten-inch reducer. The current plug isolation valve and check valves are to be replaced with new valves; these valves are to be replaced with new valves that are equal to the existing valves. Valves to be by DeZurich Manufacturing or equal. The check valves and plug isolation valves must be produced by the same manufacturer. Attached to two of the lines there is a 12” ninety-degree elbow, and on the third line there is a 12” cross. All of these pipes, valves and fittings are to be replaced. See section 3, figure 3.

All measurements are approximate, contractor to verify. The City of Havelock shall not be held responsible for omissions or errors in description. Any and all utilities damaged during the course of this project will be the responsibility of the contractor. All locating services will be the responsibility of the contractor.

- a. The contractor will be responsible for removal of any sediment that is remaining in the valve vault after the installation of the bypass and plugging.

- b. The contractor will be responsible for removal of the lid from the valve vault. The lid on the valve vault is 11'-7" in diameter and approximately 8" thick.
- c. The contractor will be responsible for the removal of the three 10" DIP Discharge Pipes which span from the inside of the wet well to the inside of the valve vault. These pipes are approximately 12' long and 2' deep and covered by 6" of concrete from the side of the wet well to the side of the valve vault. The span, however, between the well and the vault is approx. 6 ft. The concrete above the 10" DIP Discharge piping will require removal to expose the piping and reinstallation before the completion of the project.
- d. The contractor will be responsible for removal and replacement of the three plug isolation valves and three check valves from the valve vault. Valves to be by DeZurich Manufacturing or equal. The check valves and plug isolation valves must be replaced with new valves and must be produced by the same manufacturer.
- e. The contractor will be responsible for the removal of the two 10" elbows, one 10"X 12" reducing cross, and one 10" by 12" reducer.
- f. The only piping that is to remain within the valve vault is the 12" Effluent DIP Discharge Pipe.
- g. All bracketry and or restraints are to be removed including any and all anchors.
- h. The contractor shall be responsible for reinstalling all new components, valves, piping, fittings, anchors and bolts within the valve vault. All piping and fittings shall be Ductile Iron, all bracketry, bolts, and anchors shall be 316 stainless steel. All bolting shall have Marine Grade Anti-Seize lubricant applied to the threads prior to assembly. The current plug isolation valve and check valves are to be replaced with new valves. Valves to be by DeZurich Manufacturing or equal. The check valves and plug isolation valves must be produced by the same manufacturer.
- i. The new concrete lid for the valve vault shall have a 4' by 4', two hatch series W2S Halliday (or equal) lid installed for access.
- j. The new concrete lid will require rebar placed within the concrete, @ max. 8" on center each way. The hatch opening will have double rebar surrounding the opening.
- k. The new concrete lid shall be installed using Con-Seal joint sealant to create a waterproof seal to the valve vault walls.
- l. The contractor shall be responsible for following all OSHA Standards for confined space entry. The contractor shall be responsible for supplying and utilizing all required confined space entry safety equipment during the course of this project.

Additional Alternate #1:

There is a 20" line coming from the head works of the Waste Water Treatment Plant; it terminates at a tee and at that point feeds both the IPS #1 and IPS #2. This line is approximately twelve feet deep and there is a four-inch-thick pad of concrete directly above the line. The concrete pad that is removed will require replacement in-kind. The area of concrete is approximately 13 ft. x 13 ft. Contractor to confirm in field. Isolation valves need to be installed on both sides of the tee to allow either of the IPS #1 or IPS #2 to be isolated while the other is left in operation. See Figure 1 and Figure 5.

- a. The contractor shall be responsible for installing a bypass system in front of the slide gate at the head works of the Wastewater plant; the discharge line for this bypass will be placed within the first stage aeration basin. See figure 5.
- b. The contractor shall be responsible for saw cutting and removal of the concrete pad above the 20" piping, excavating the 20" line and exposing the tee and approximately four-feet on both sides.

- c. The contractor shall be responsible for closing the slide gate at the influent end of the twenty-inch line at the head works of the Wastewater Treatment Plant and implement the bypass system.
- d. The contractor shall be responsible for cutting the 20" line on one side of the tee where the isolation valve is to be installed.
- e. The contractor shall be responsible for installing the isolation valve and fully open.
- f. The contractor shall be responsible for opening the slide gate at the influent end of the 20" line at the head works of the plant and allow the levels within the head works to stabilize.
- g. The contractor shall be responsible for checking the newly installed isolation valve for leaks.
- h. The contractor shall be responsible for once again closing the slide gate at the influent end of the 20" line at the head works of the Waste Water Treatment Plant.
- i. The contractor shall be responsible for cutting the 20" line on the opposite side of the tee where the isolation valve is to be installed.
- j. The contractor shall be responsible for installing the isolation valve and fully opening.
- k. The contractor shall be responsible for once again opening the slide gate at the influent end of the 20" line at the head works of the plant and allowing the levels within the head works to stabilize.
- l. The contractor will be responsible for concrete restoration for the removed concrete slab between the two pump wells (approx. 13'x13').

The contractor shall be responsible for supplying and utilizing a trench box per OSHA Standards while excavating and working within trench. See section 3.

Additional Alternate #2:

Bypass Pipe Installation

Contractor to provide pricing for adding a 12" bypass connection fitting (Bauer type male) to force main after IPS#2 valve vault, across the roadway. Pipe material to be ductile iron. Provide plug valve (DeZurich or equal) between connection fitting and new tee at main (to remain closed at all times until bypass is required and connected). Exact location to be determined in field. Provide two 4' steel bollards to match existing plant standard. Paint exposed piping and bollards Tnemec (or equal) "Safety Yellow". See figure 7 for construction and layout details.

1. Bypass General Notes:

Sewage bypass pumping shall be required for completion of repairs. Contractor shall design and furnish all material, labor, equipment, power, fuel, fuel storage, maintenance, etc. to implement a temporary bypass arrangement for the purpose of diverting flow around the work area on a daily basis for the duration of the repair. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction. Contractor shall be held liable for any and all fines imposed by local, State, and/or Federal agencies for failure to maintain flows or contain spills and/or overflows.

During the rehabilitation of the wet well and valve vault there will be three areas in need of bypass. The IPS #1, the RAS Manhole, and the number three drying bed manhole. All areas to be bypassed will require a primary and secondary pump with an auto dialer. See figure 5.

- A. The IPS #1 will be bypassed directly into the first stage aeration basin;
- B. The RAS Manhole will be bypassed directly into the top of the splitter tower;
- C. The number three drying bed manhole will be bypassed directly into the back side of the first stage aeration basin.
- D. For Add Alternate #1: During the installation of the isolation valves between IPS #1 and IPS #2, the contractor will also be responsible for bypassing from the slide gate to the first stage aeration basin.

2. Dewatering:

- a. The contractor shall dewater as required for completion of work. Excavation shall be kept free of water at all times during pipe removal, pipe replacement, and backfill operation.
- b. All dewatering shall flow through a sediment filter bag. Sediment filter bags shall be of Polypropylene non-woven geotextile fabric with a sewn-in sleeve of sufficient size to accept a 4-inch diameter discharge hose. The discharge hose shall be extended into the sleeve a minimum of six (6) inches and be tightly secured with a hose clamp or other suitable device to prevent leakage. Contractor shall size sediment filter bags as necessary to dewater excavations. Effluent to be directed to adjacent stormwater conveyance areas and Contractor shall remove any accumulation of sediment from such areas following dewatering operations.

3. Excavation and Shoring:

- a. Contractor is responsible for the design and protection of all excavation and shoring. Standard shoring practices including trench boxes, can be used and certified/stamped by manufacturer. If required, shoring shall be designed and sealed by a professional engineer registered in the State of North Carolina, as required by OSHA, CFR1926.
- b. Contractor shall notify NC 811 for utility locations prior to any excavations.
- c. In no case shall excavations exceed that which cannot be backfilled by the end of the work day.

4. Backfill and Compaction:

- a. All excavations shall be backfilled with select fill material, ABC, or 57 stone. Contractor shall be responsible for removal and disposal of all excavation material and construction debris.
- b. Compaction in embankment shall be to 95% standard proctor in no more than 8" lifts.
- c. Compaction in roadways, driveways, and sidewalks shall be to 98% standard proctor in no more than 8" lifts.

5. Pipe Bedding:

- a. Pipe bedding shall consist of an eight-inch (8") depth of # 57 stone under pipe and #57 or ABC stone to top of pipe. See figure 6.

6. Erosion and Sediment Control and Restoration:

- a. The contractor shall be responsible for the installation and maintenance of all erosion and sediment control in accordance with the NC DEQ Erosion and Sediment Control Manual.
- b. Construction activities shall be completed in such a manner that erosion of disturbed areas and off-site sedimentation is absolutely minimized.
- c. All disturbed areas shall be restored as soon as construction is complete. Seed or sod type shall match existing grass in maintained areas. Follow the NC DEQ Erosion and Sediment Control Manual for type or as directed by City of Havelock representative.

7. Pavement Restoration

- a. Replacement of asphalt roadway and/or concrete driveways/sidewalks are the responsibility of the contractor and shall be returned to original condition before end of project.
- b. Areas of pavement restoration shall be compacted to 98% standard proctor in no more than 8" lifts.
- c. Asphalt base course shall be a minimum of two inches thick and meet the requirements of B25.OB per NCDOT Standards for Roads and Structures.
- d. Asphalt tack coat shall be sprayed on the existing asphalt in accordance with section 605 asphalt tack coat of the NCDOT Standard Specifications for Roads and Structures.
- e. The asphalt surface course shall be S9.5B at one and a half inches thick per NCDOT Standards for Roads and Structures.

8. Concrete Restoration

- a. Replacement and restoration of concrete driveways / sidewalks are the responsibility of the contractor and shall be returned to original condition before the end of the project.
- b. The concrete is to be 3500-pound fiber reinforced concrete mix.
- c. The area for concrete restoration will be compacted to 98% standard proctor before pouring the concrete.
- d. The concrete shall be no less than four inches thick.
- e. The concrete for walkways, and sidewalks will require no wire mesh or rebar.
- f. The new valve vault concrete lid will require rebar to be placed within the concrete @ max 8" on center each way. The hatch opening will have double rebar surrounding the opening.
- g. Concrete will have an expansion joint placed at the joints where the new concrete meets the old concrete.
- h. The seam where the new concrete meets the old concrete will be tooled to a ½" radius with the use of a concrete edging tool.
- i. Until completely cured the contractor will supply signage "No Walking, Wet Concrete".

9. Performance and Payment Bonds

- a. The successful bidder, within 14 calendar days after the notice of award is received by them shall provide the City with a payment bond and a performance bond each in an

amount equal to 100 percent of the amount of the contract. All bonds shall be in conformance with G.S. 44A-33. The corporate surety furnishing the bonds shall be authorized to do business in the state.

10. Performance Period

- a. It will be the contractor's responsibility to set a start date with a representative from the City of Havelock to begin a project within thirty (30) days from the issuance of a Notice to Proceed - Award.
- b. The performance period is 180 days from the listed date on the Notice to Proceed.
- c. The contractor shall work diligently to complete the project from the arranged start date. Work hours shall be 8am to 5pm, Monday through Friday. No work shall be performed on City holidays. Work outside established work hours must be scheduled with the City, 48 hours in advance and is subject to approval.
- d. The contractor will be responsible for contacting a representative of the City of Havelock in the event that a project will be extended outside of the arranged performance period. Contact must be in the form of an email and acceptance of the extension of the performance period from a representative of the City of Havelock must also be in the form of an email.

11. Access:

- a. Access to project site is within existing City of Havelock right of way.

12. Termination Clause:

- a. Any agreement and issuance of purchase orders shall be terminated upon the expiration of (90) ninety days without work commencing. At the end of ninety days the City of Havelock will give written notice to the other party of its intention to terminate.
- b. Any intent to begin a project ninety (90) days or more after a purchase order has been issued must be submitted in writing and approved by a representative of the City of Havelock.

13. Warranty:

- a. Contractor will be held responsible for the materials and workmanship utilized within this project for a term of one year from the time that the equipment is put back into service.
- b. The City of Havelock will be responsible for the warranty of any materials that are supplied to the contractor by the City of Havelock during the course of this project.
- c. Disturbance of existing landscape features shall be held to a minimum and all disturbed areas returned to a condition equal or better when repair is complete. Care shall be taken so as not to damage existing features to remain such as roadways, curbs, driveways, sidewalks, etc. All features removed or damaged shall be replaced or repaired to existing condition or better. All demolished material shall become the property of the contractor and shall be removed from the work site and disposed of in accordance with all local, State, and Federal requirements. As-built documentation shall include a description of materials used and repair procedures completed at each site.

General Provisions:

- a. Contractor shall comply with all requirements of OSHA 1926.

- b. Work hours shall be 8am to 5pm, Monday through Friday. No work shall be performed on City holidays. Work outside established work hours must be scheduled with the City, 48 hours in advance and is subject to approval.
- c. Contractor will obtain all necessary permits. Permits required by City of Havelock are provided free of charge.
- d. Roadway repair is the responsibility of the contractor.
- e. Contractor shall control erosion and sediment release while this project is under construction.
- f. The contractor is to clean and remove all debris at the end of each work day.
- g. All underground utilities are to be 811 located, prior to work being started.
- h. Contractor is responsible for all damage to existing roads, driveways, drainage, or utilities that occur as a result of the construction project.
- i. Contractor is responsible for all damage to City property that occurs as a result of the construction of the project.
- j. Contractor shall provide safety measures during the entire length of the project.
- k. Contractor is responsible for the storage and safety of materials and equipment on jobsite.
- l. Submittals must be approved by the City of Havelock prior to any work starting.
- m. The performance period is 180 days from the Notice to Proceed.

Liquidated Damages:

- a. The Contractor agrees to pay the owner \$300 per day in liquidated damages for each day beyond the period of performance.

Figure 1: Work area map.



Figure #2: Section drawing of the existing Wet Well

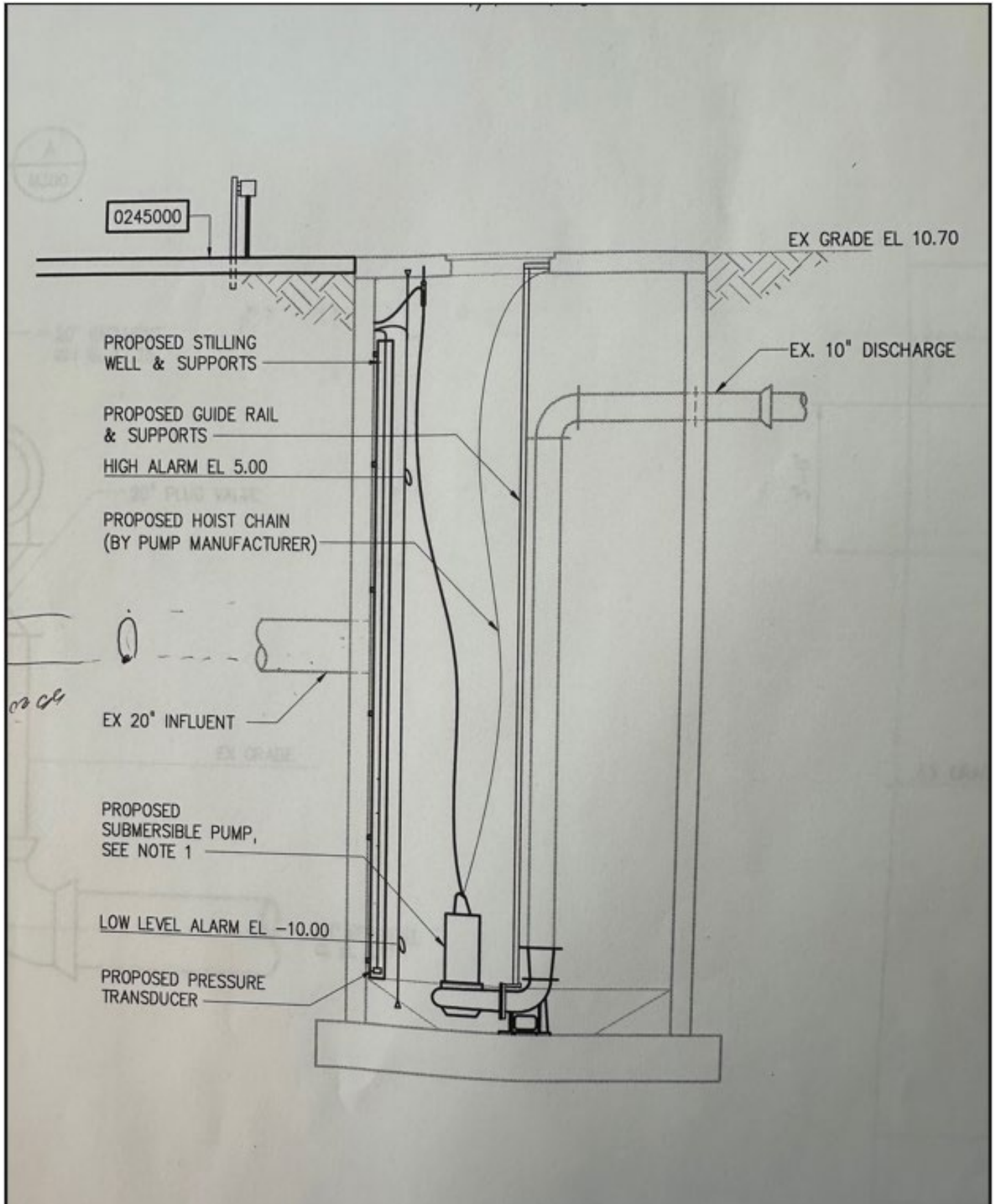


Figure #3: Plan drawing of the existing Valve Vault:

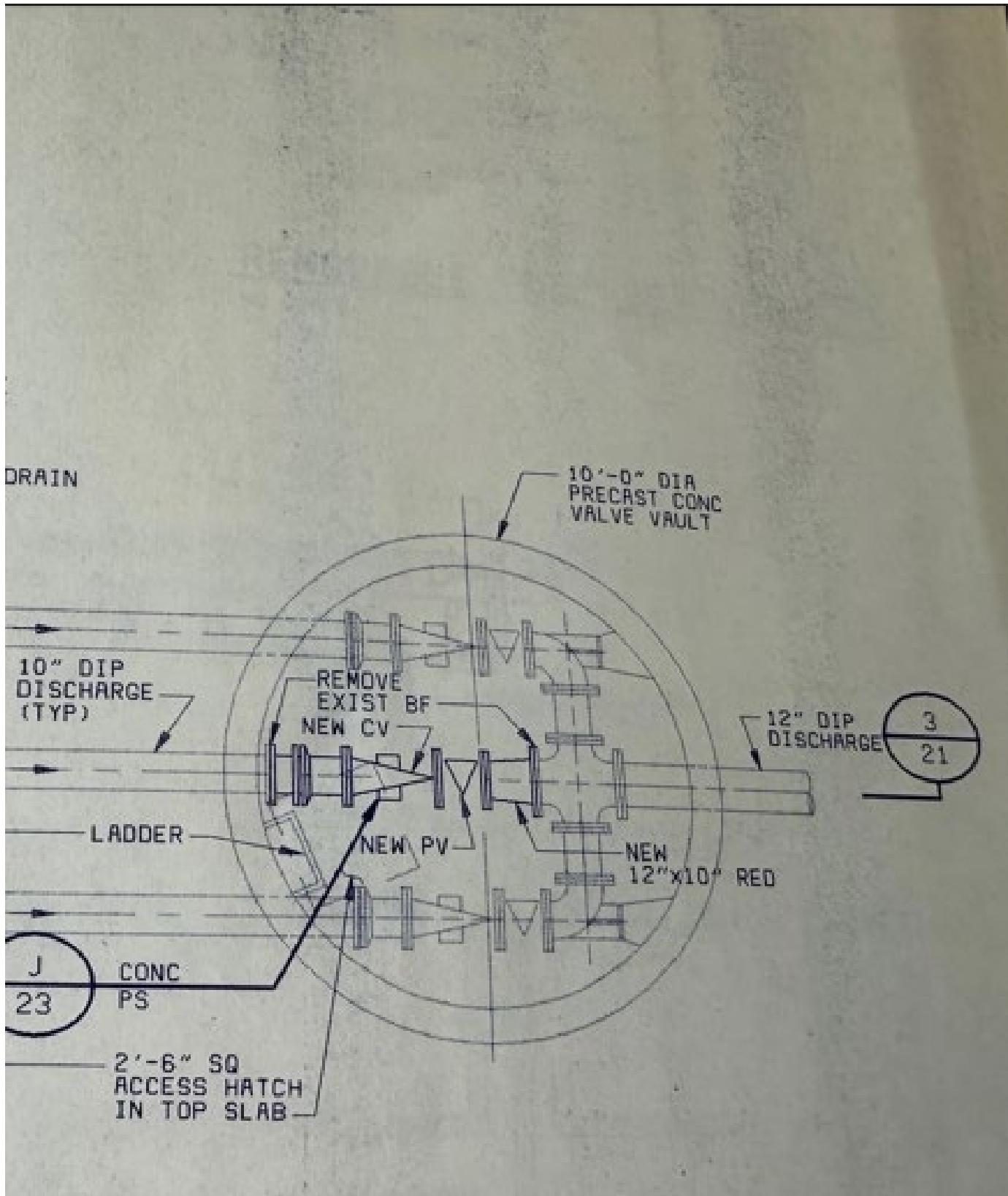
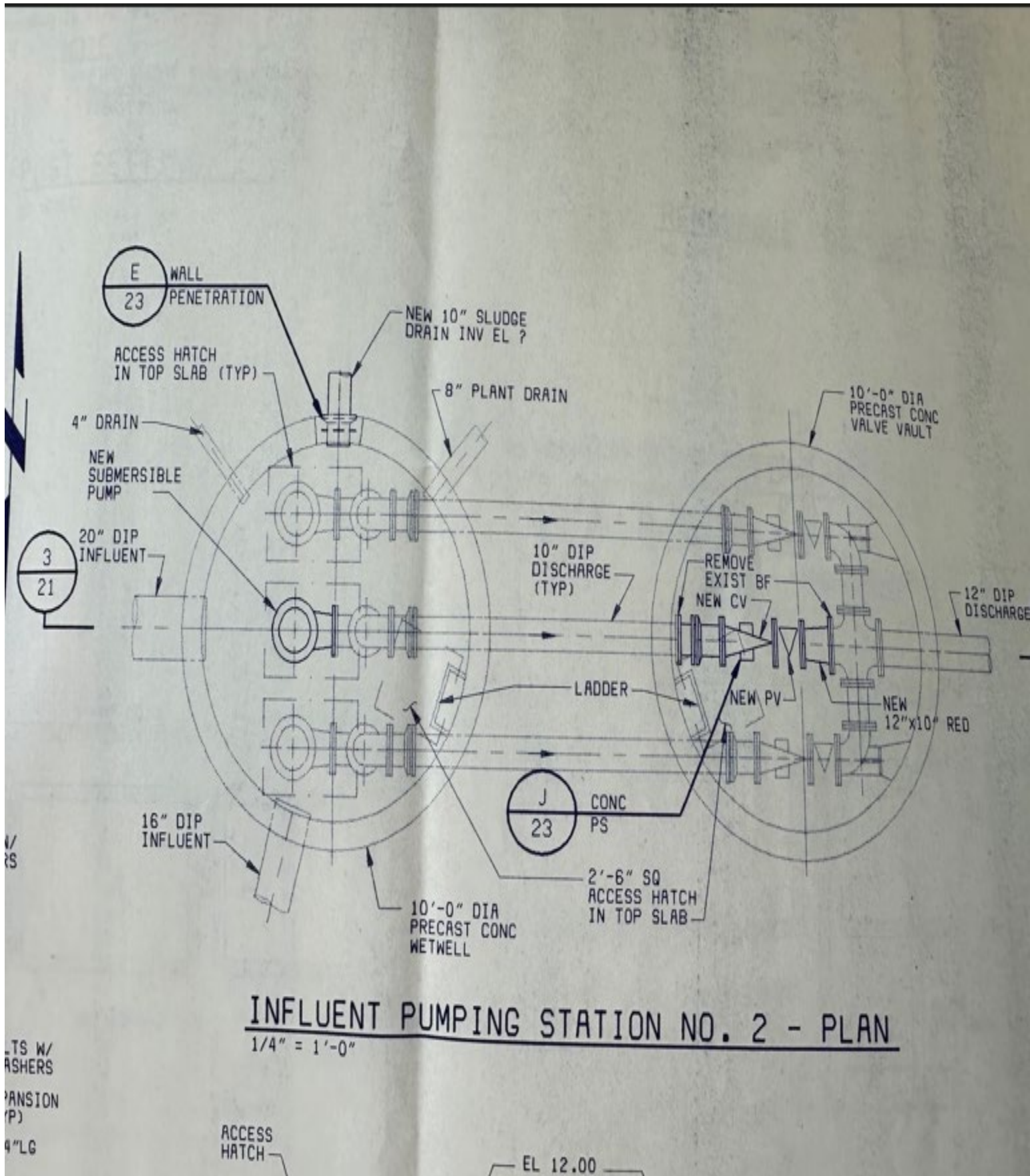


Figure 4: Plan drawing of both the existing Wet Well and Valve Vault



TS W/
 ASHERS
 ANSION
 (P)
 4" LG

ACCESS
 HATCH

Figure #5: Installation of the Isolation Valves

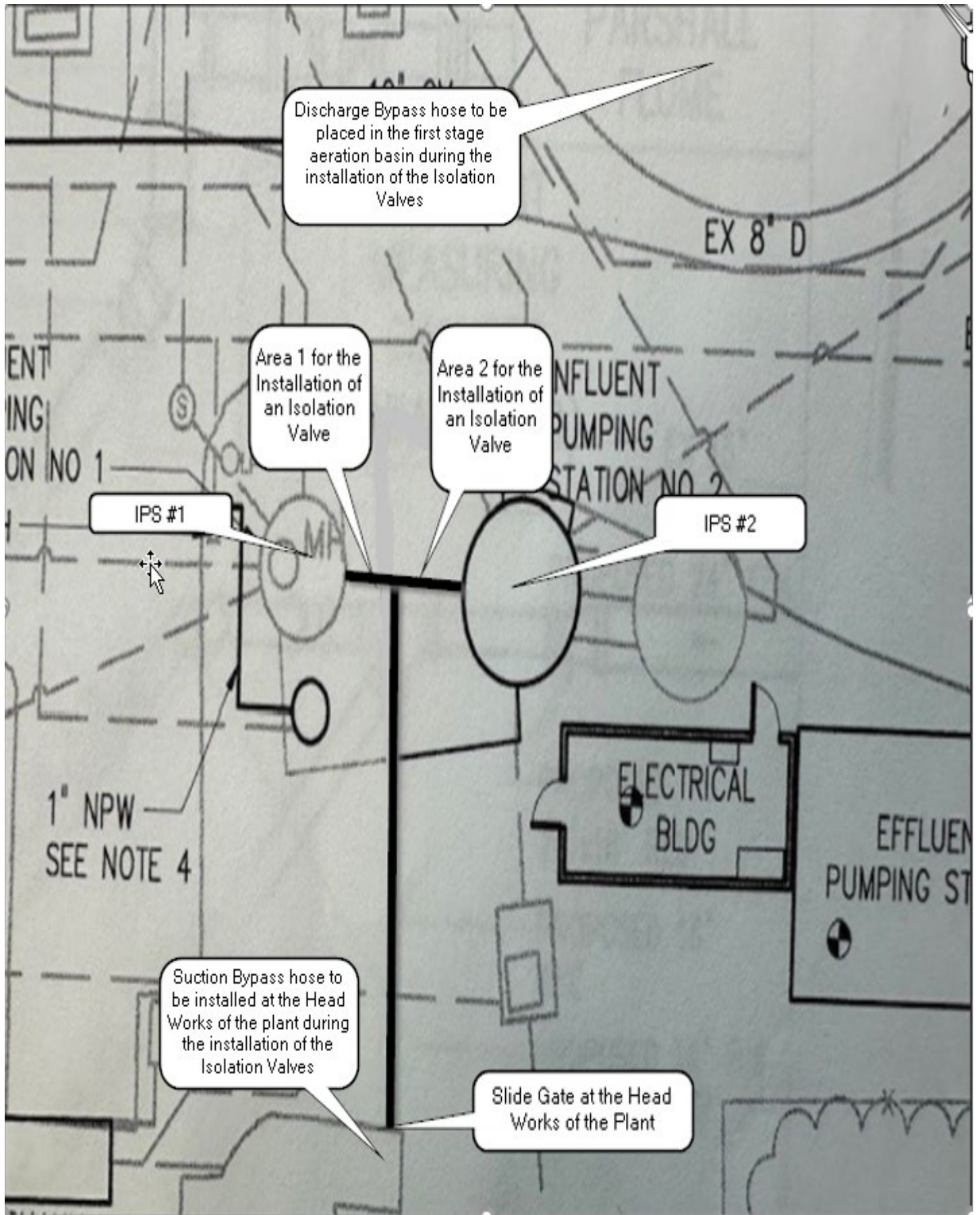


Figure 6: Pipe Bedding and Pavement Cross Section, Typical.

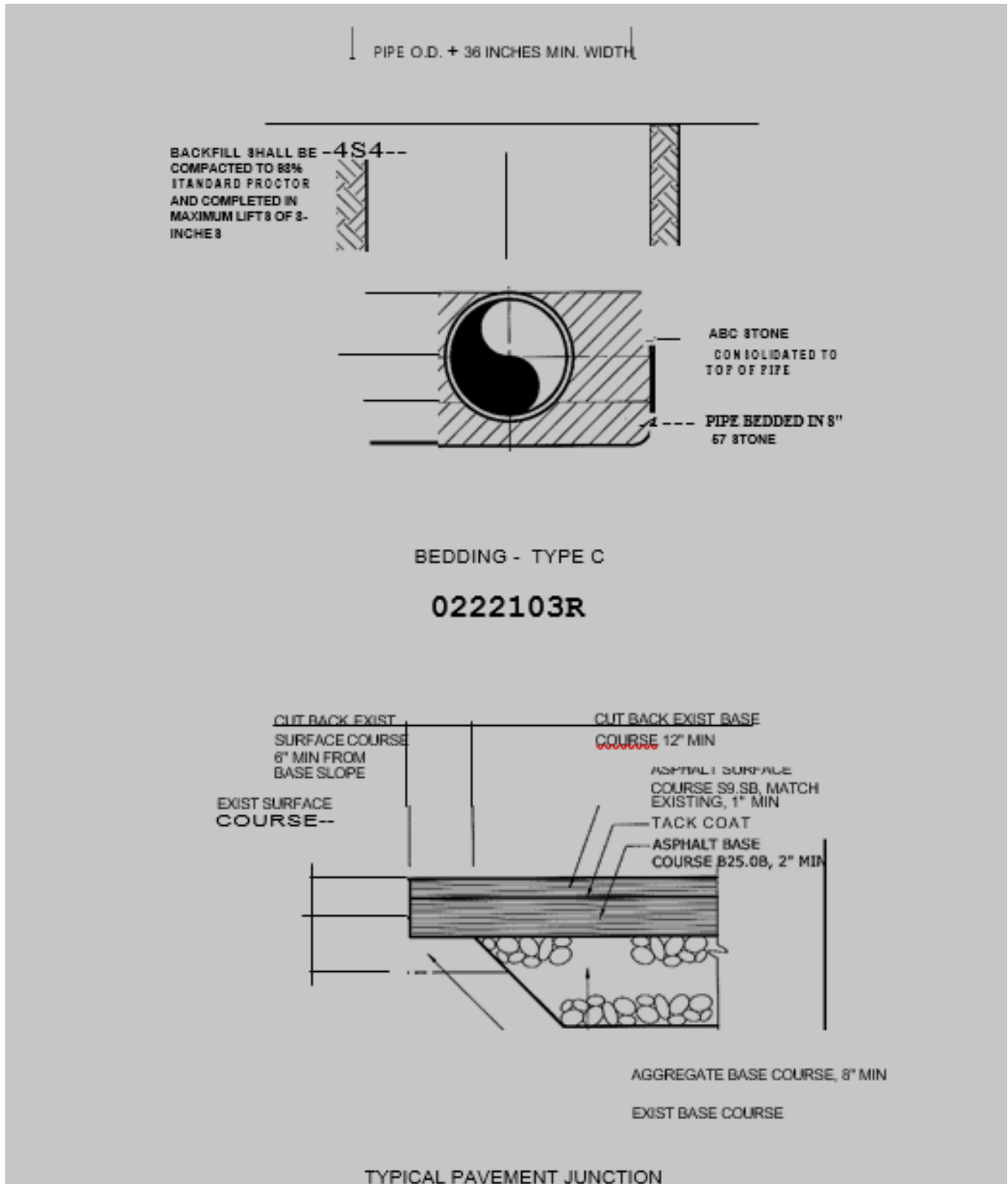


Figure 7: Add Alternate #2 – Bypass Connection

