

## ADDENDUM NO. 1

DATE ISSUED: June 14, 2024

PROJECT NUMBER: AEW Project No.: 0170-0523

PROJECT: Stephens Pump Station and CL-S-1 Meter Pit Improvements

OWNER: City of Center Line  
7070 East Ten Mile Road  
Center Line, Michigan 48015

ENGINEER: Anderson, Eckstein and Westrick, Inc.  
51301 Schoenherr Road  
Shelby Township, Michigan 48315

The following changes to and/or clarifications of the Contract Documents will be incorporated in said Contract Documents and such changes shall be allowed for in the price bid by the Contractor, such that the price indicated in the Bid Form shall represent the conditions as set forth in the original Contract Documents as modified by this Addendum.

Acknowledgement of receipt of this Addendum and the Bidder's Acceptance of these revised conditions prior to submittal of bid shall be indicated by adding the Addendum number and Date on Page 1 of the Bid Form.

### **CONTENTS OF ADDENDUM NO. 1:**

The following changes have been made to the Contract Documents

1. External Questions

The following questions were submitted by email or at the optional preconstruction meeting:

- i. **Question:** What is the connection method to the existing force main within the Manhole No.6?  
**Answer:** It is expected that there is a 24-inch pipe flange at the end of the existing force main to connect to.
- ii. **Question:** What is the product for the pipe coupling shown on Sheet 6, within the Meter Pit?  
**Answer:** The pipe coupling shall be a mechanical coupling. Please see the revisions to the special provision section below.

- iii. **Question:** What electrical equipment will the owner retain possession of?  
**Answer:** The owner shall retain the existing Generator, VFDs and ATS as part of the project. The owner will pick up the Generator from the site. Products shall be removed in working condition and returned to the owner.
  
- iv. **Question:** Will a new concrete pad be included to account for a new generator?  
**Answer:** Yes, the old generator pad shall be removed and replaced with a new 10-inch generator pad as shown on Sheet E-3. Include this work "Pump Station Electrical, Complete"
  
- v. **Question:** Will the Grinder pumps be replaced as part of the project?  
**Answer:** \*\*\*This was answered in person as the grinder pumps not being included in the project. The owner has since decided to add this to the project based on expected flow rates. Please see revised plans and specifications associated with these changes.

2. Name of Doc being Changed:

- A. Bid Form
- B. Special Provisions – Force Main, Ductile Iron Pipe
- C. Special Provisions – Force Main, Meter Pit Upgrades
- D. Plan set

3. Clarifications:

- A. Replace the original bid form with the Bid form enclosed in this Addendum.
- B. In the Special Provision fo Force Main, Ductile Iron Pipe, Add the following paragraph to the end of section "b. Matertials".

**The pipe coupling within the Meter Pit shall be a mechanical coupling. Couplings shall be dresser "Style 38", Smith Blair 411, Brico Depend-O-Lock, Romac Style 501 or Approved Equal. Gaskets shall be oil-resistant synthetic rubber.**

- C. In the Special Provision fo Meter Pit Upgrades Add the following paragraph to the end of section "c. Construction".

**MDOT Standard details R83 shall be used for backfill and R44 for concrete pavement repair. Work at the Meter Pit shall occur during times where the pavement repalcement may be completed immediately following the work. This will require the contactor to ensure the Hot Mix Asphalt Plant bing used is still producing during this time period. Corrdination with MDOT will be required.**

- D. Remove and Replace Plans sheets 14, 16, 17 and 19 with the sheets enclosed in this Addendum, dated 6/12/2024.
- E. Incorporate the Special Provision, Channel Grinder, into the bid documents.

- 4. Attachments:
  - A. Bid Form
  - B. Plan Set / Sheet Nos. 14, 16, 17 and 19
  - C. Special Provision – Channel Grinder

**END OF ADDENDUM**

# **BID FORM**

**CITY OF CENTER LINE  
STEPHENS PUMP STATION AND  
CL-S-1 METER PIT IMPROVEMENTS  
AEW PROJECT NO. 0170-0523**

**BID SUBMITTED BY:** \_\_\_\_\_  
Company Name

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**ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

*Offices of the City Manager / Clerk  
City of Center Line  
7070 East Ten Mile Road  
Center Line, Michigan 48075*

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS**

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

**ARTICLE 3 – BIDDER’S REPRESENTATIONS**

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site, if any, and all drawings of physical conditions relating to existing surface or subsurface structures at the Site, if any, that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits

- to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
  - G. 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.
  - H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
  - I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
  - J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.
  - K. Bidder is aware that the Owner's decision to proceed with the Project is subject to Owner's determination that all legal, financial and grant approvals, conditions and requirements have been received or met and the funding necessary to complete the project is in hand, and that if all of the foregoing has not been received, the Owner may elect not to proceed with the project in which case no bidder shall have a claim of any kind in contract, tort, equity or otherwise, against the Owner.
  - L. Bidders acknowledge that Owner retains the unrestricted right not to proceed with the project and to reject all Bids received. In either case, Owner shall not be liable to any Bidder under any theory including contract, tort, equity or otherwise.
  - M. Bidder acknowledges that the unexpected presence and location of existing underground utilities and resulting conflicts with such utilities are ordinarily encountered and generally recognized as inherent in subsurface sewer and appurtenant work in areas that have been previously developed.

#### **ARTICLE 4 – BIDDER'S CERTIFICATION**

##### **4.01 Bidder certifies that:**

- A. 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 collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
  - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;

2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.



**ARTICLE 5 – BASIS OF BID**

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

**CITY OF CENTER LINE  
STEPHENS PUMP STATION AND  
CL-S-1 METER PIT IMPROVEMENTS  
AEW PROJECT NO. 0170-0523**

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
<b>BASE BID - GENERAL</b>					
1.	_Mobilization, Max \$120,000	1	LS	\$ _____	\$ _____
2.	_Audio-Video Route Survey (Max. \$5,000)	1	LS	_____	_____
<b>TOTAL OF BASE BID - GENERAL</b>					<b>\$ _____</b>

**BASE BID – CL-S-1 METER PIT**

1.	Pavt, Rem	100	Syd	_____	_____
2.	Meter Pit Upgrades, Complete	1	LS	_____	_____
3.	Sewer Force Main, Rem	120	Ft	_____	_____
4.	Force Main, DI, 24 inch, Tr Det G	60	Ft	_____	_____
5.	Force Main Connection, 24 Inch	1	Ea	_____	_____
6.	Sewer Tap, 24 Inch	1	Ea	_____	_____
7.	HMA, 5EMH, High Stress	10	Ton	_____	_____
8.	HMA, 4EMH, High Stress	10	Ton	_____	_____
9.	Conc Pavt, Nonreinf, 9 inch	50	Syd	_____	_____
10.	_Aggregate Base, 21AA, 6 inch	50	Syd	_____	_____
11.	Curb and Gutter, Conc, Det C3, Modified	60	Ft	_____	_____
12.	Underdrain, Subgrade, Open-Graded, 6 inch	60	Ft	_____	_____
13.	Erosion Control, Inlet Protection, Fabric Drop	3	Ea	_____	_____
14.	Temporary Sanitary Bypass Piping and Coordination (CL-S-1)	1	LS	_____	_____
15.	_Maintaining Traffic (Stage 1)	1	LS	_____	_____
16.	Surface Restoration, Seeding	1	LS	_____	_____
17.	_Maintenance Aggregate, 21AA Limestone	100	Ton	_____	_____

**CITY OF CENTER LINE  
STEPHENS PUMP STATION AND  
CL-S-1 METER PIT IMPROVEMENTS  
AEW PROJECT NO. 0170-0523**

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
18.	_ Misc Saw Cut	100	Ft	_____	_____
19.	Subgrade Undercutting, Type II	200	Cyd	_____	_____
20.	Instrumentation and Equipment, Startup and Testing (Allowance)	1	LS	30,000.00	30,000.00
<b>TOTAL OF BASE BID – CL-S-1 METER PIT</b>					<b>\$ _____</b>

**BASE BID – STEPHENS PUMP STATION**

1.	_ Fence, Rem, Salvage & Replace	20	Ft	_____	_____
2.	Sidewalk, Conc, 4 inch	500	Sft	_____	_____
3.	Station Pump	2	Ea	_____	_____
4.	Pump Station Piping, Complete	1	LS	_____	_____
5.	Pump Station Electrical, Complete	1	LS	_____	_____
6.	Spare Actuator	1	Ea	_____	_____
7.	Temporary Sanitary Bypass Pumping (Stephens PS)	1	LS	_____	_____
8.	_ Maintaining Traffic (Stage 2)	1	LS	_____	_____
9.	Restoration and Cleanup	1	LS	_____	_____
10.	Surface Restoration, Seeding (Stephens PS)	1	LS	_____	_____
11.	Channel Grinder	2	Ea	_____	_____

**TOTAL OF BASE BID – STEPHENS PUMP STATION** \$ \_\_\_\_\_

**GRAND TOTAL OF BASE BIDS – GENERAL + CL-S-1 METER PIT + STEPHENS PUMP STATION** \$ \_\_\_\_\_

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor’s overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

**ARTICLE 6 – TIME OF COMPLETION**

6.01 Bidder agrees that the Work will be substantially complete on or before July 1, 2025 and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General conditions on or before September 1, 2025.

**ARTICLE 7 – ATTACHMENTS TO THIS BID**

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. Prequalification Documents;
- C. Subcontractor list;
- D. Suppliers;
- E. Project Schedules;
- F. Project References;
- G. Affidavit of Non-Collusion; and
- H. EGLE Certification Regarding Debarment, Suspension, and Other Responsibility Matters

**ARTICLE 8 – DEFINED TERMS**

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

**ARTICLE 9 – BID SUBMITTAL**

BIDDER: *[Indicate correct name of bidding entity]*

\_\_\_\_\_

By: *[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

*(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)*

Title: \_\_\_\_\_

Attest: *[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

Submittal Date: \_\_\_\_\_

Address for giving notices: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Contact Name and e-mail address: \_\_\_\_\_

\_\_\_\_\_

Bidder's License No.: \_\_\_\_\_

*(where applicable)*



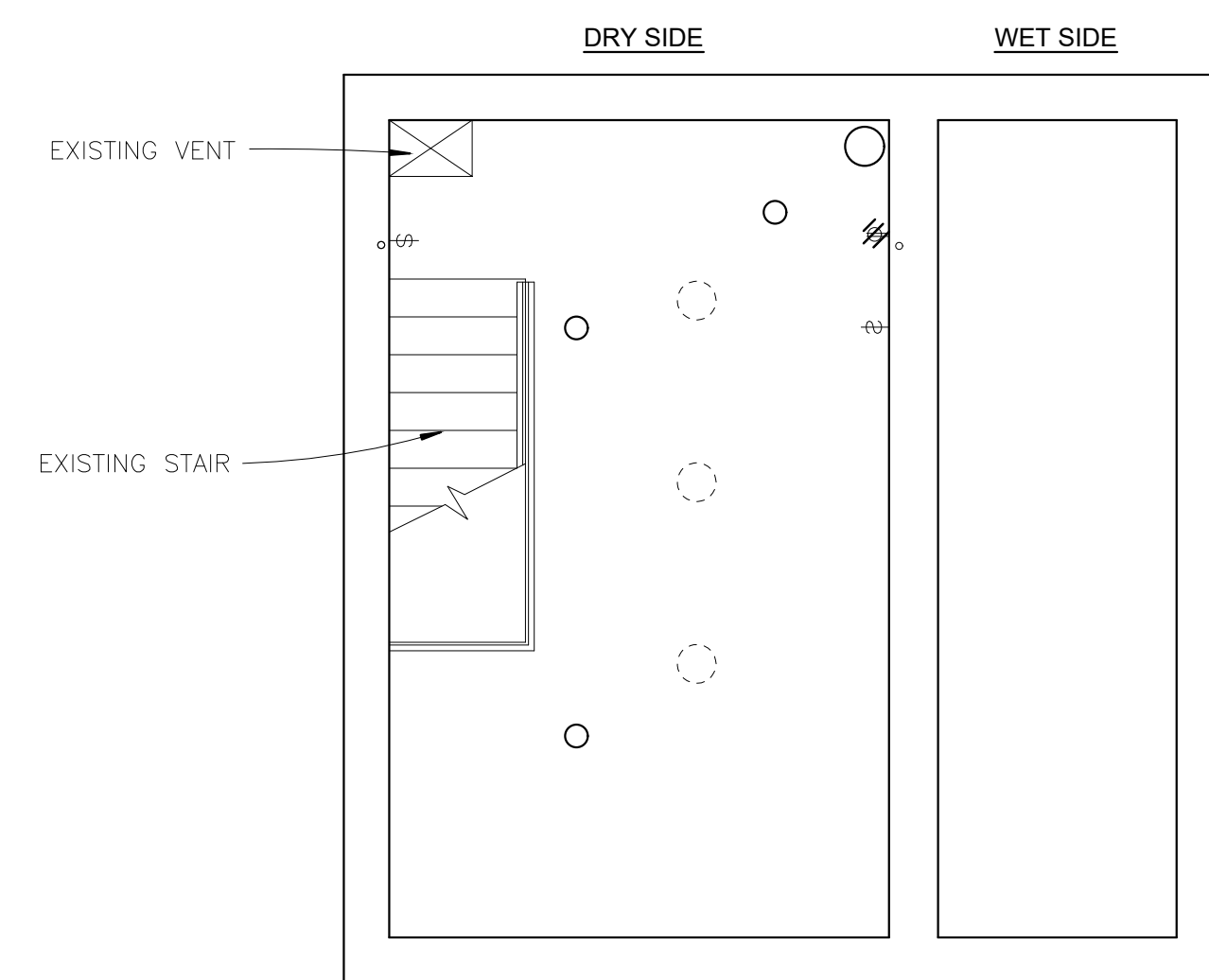
ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234  
Shelby Township Fax 586 726 8780  
Michigan 48315

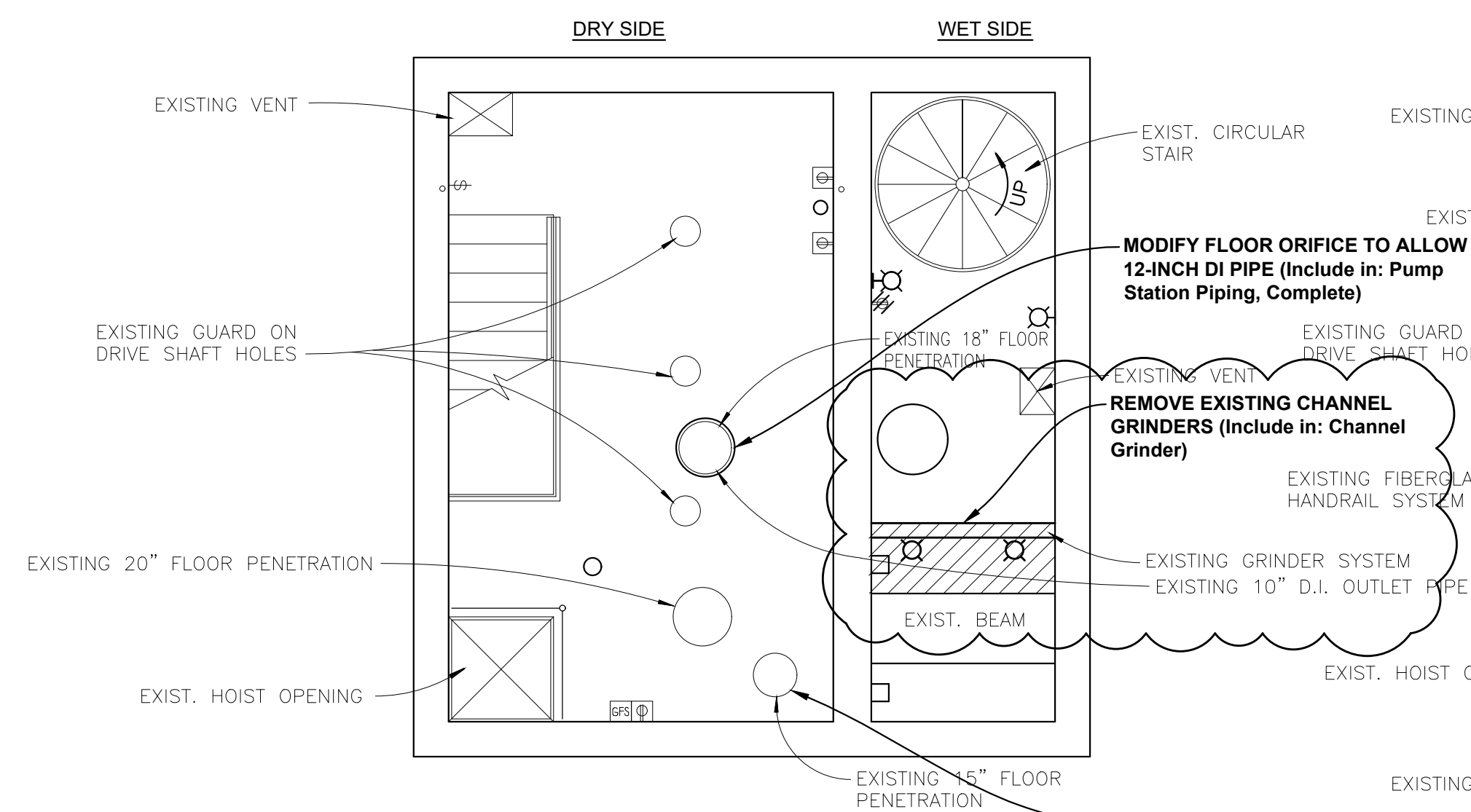
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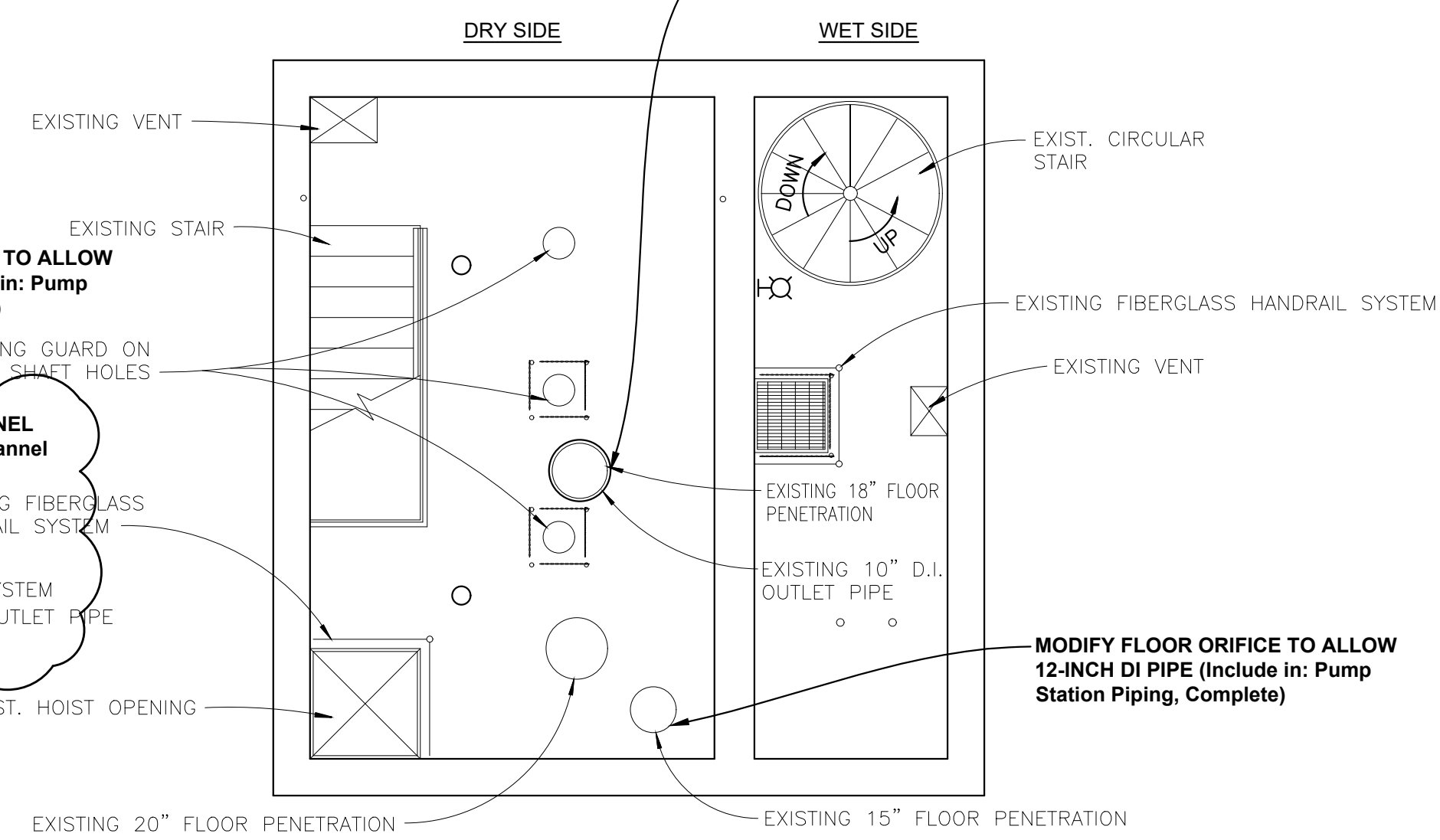
**EXISTING BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 584.79  
WET SIDE FLOOR ELEV 583.66



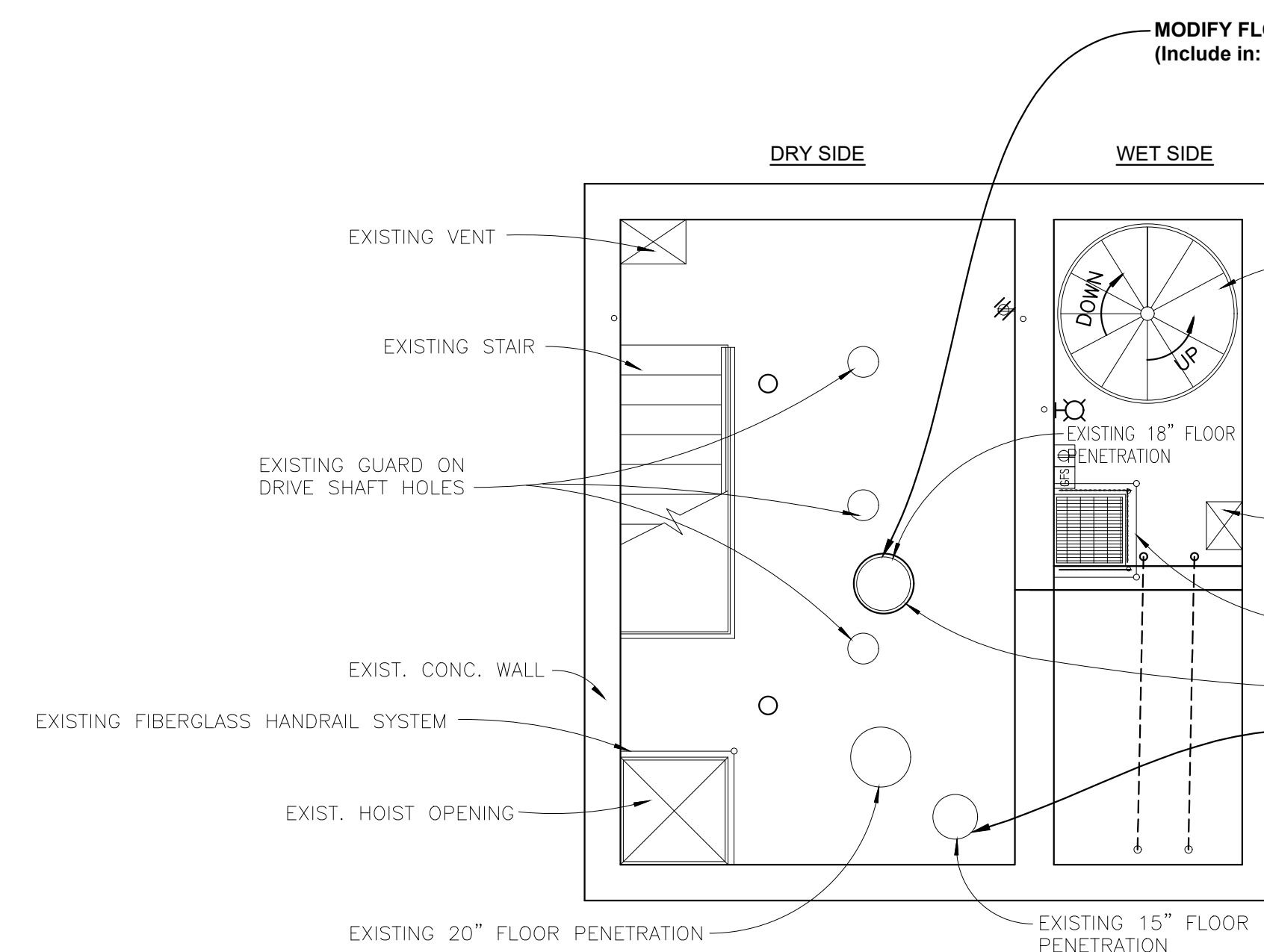
**EXISTING FOURTH SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 593.88  
WET SIDE FLOOR ELEV 592.78



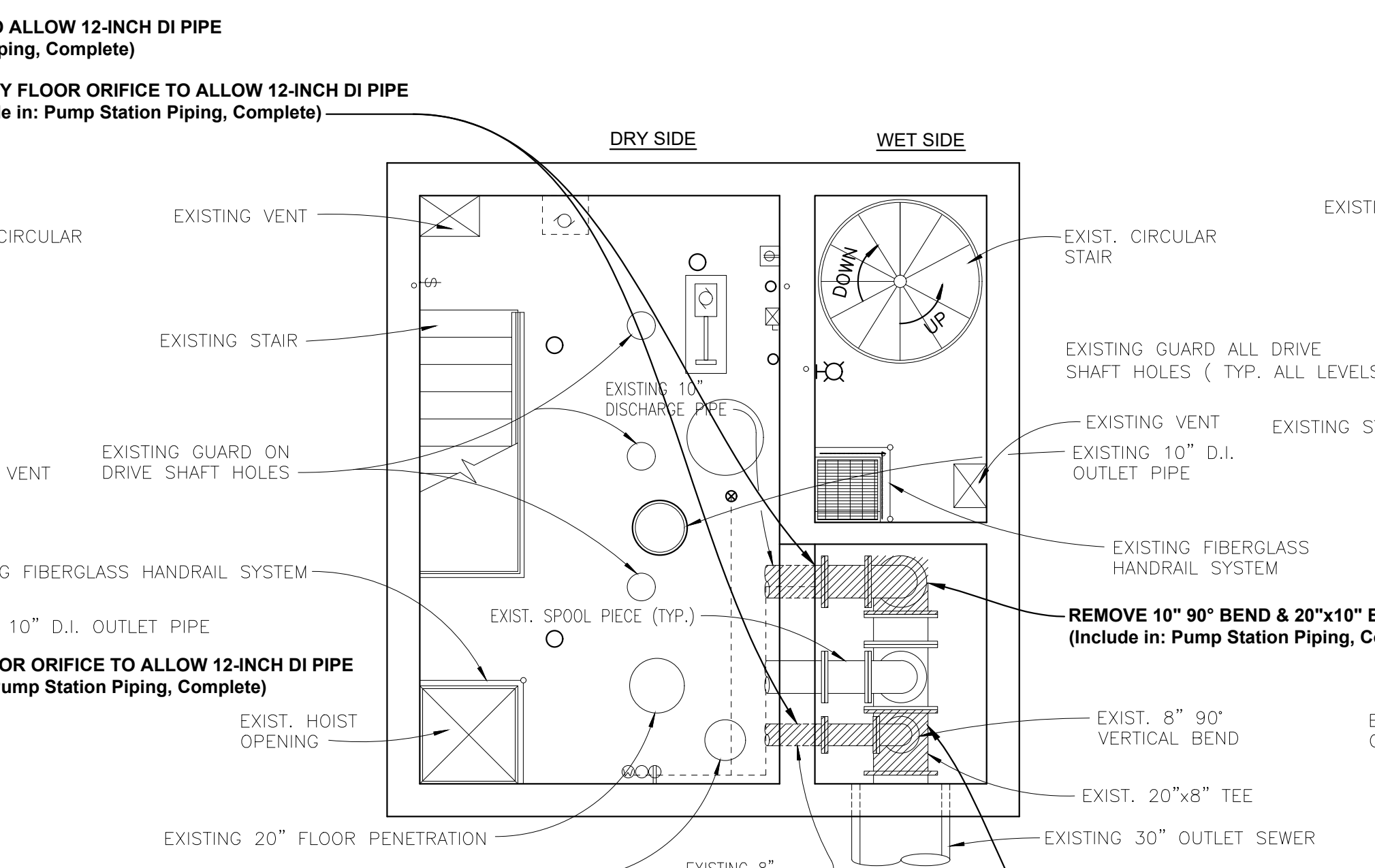
**EXISTING THIRD SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 602.40  
WET SIDE FLOOR ELEV 602.40



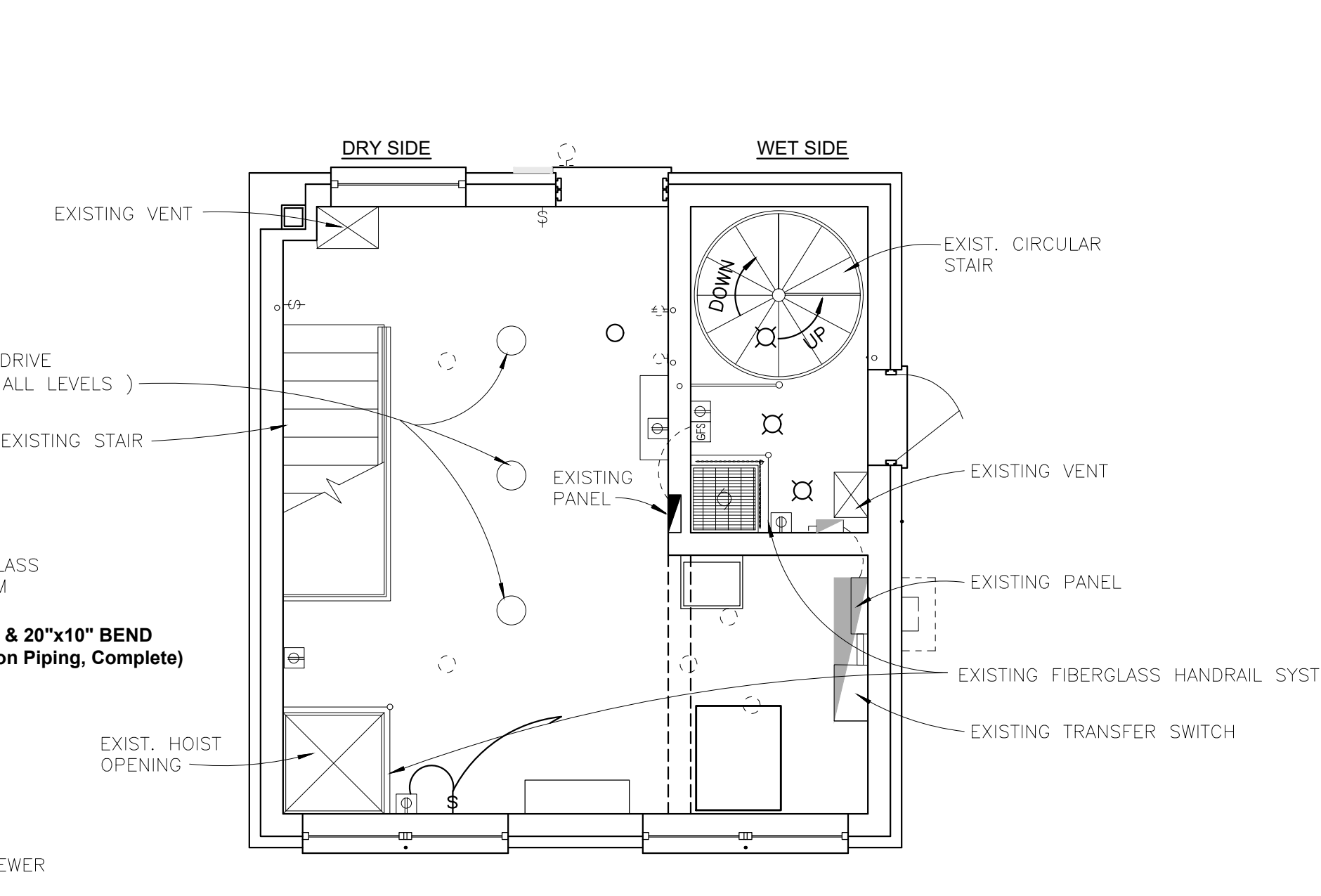
**EXISTING SECOND SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 610.42  
WET SIDE FLOOR ELEV 610.42



**EXISTING FIRST SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 618.44  
WET SIDE FLOOR ELEV 618.44



**EXISTING GROUND LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE ELEV GRADE LEVEL 626.46  
WET SIDE ELEV GRADE LEVEL 626.46

6/12/2024	Addendum No. 1
5/23/2024	Bid Set
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

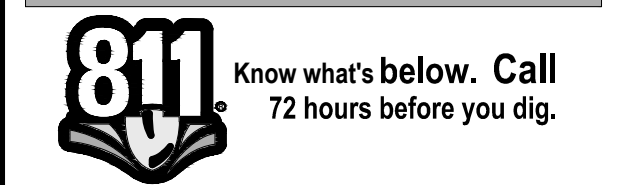
**STEPHENS PUMP STATION  
AND CL-S-1 METER PIT  
IMPROVEMENTS**

SHEET TITLE:

**PUMP STATION  
DEMOLITION  
PLAN VIEW**

CLIENT:  
CITY OF CENTER LINE

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: MJS	CHECKED BY: TMS	DATE: MARCH 2024
SCALE: 1/4" = 1'		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0170-0523

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SHEET NO.



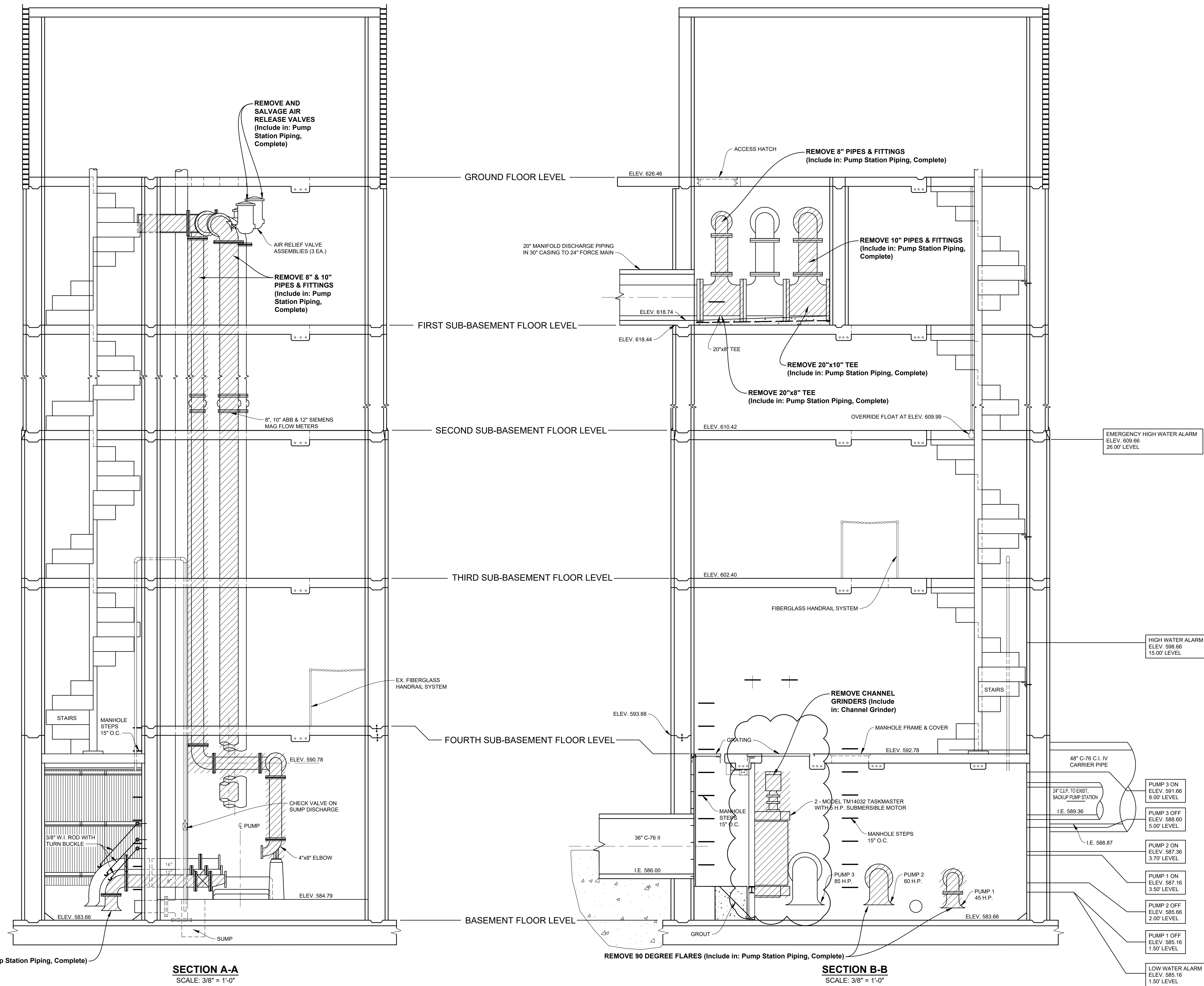
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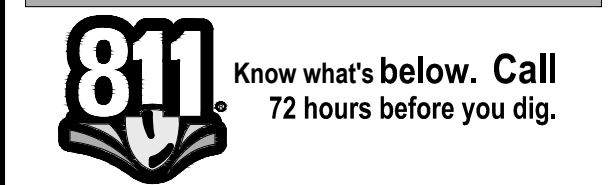
6/12/2024	Addendum No. 1
9/23/2024	Bid Set
3/14/2024	80% Design Set
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:  
**STEPHENS PUMP STATION AND CL-S-1 METER PIT IMPROVEMENTS**

SHEET TITLE:  
**PUMP STATION MOTOR ROOM DEMOLITION SECTION**

CLIENT:  
CITY OF CENTER LINE

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: MJS	CHECKED BY: TMS	DATE: MARCH 2024
SCALE: NOT TO SCALE		



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PROJECT NO. 0170-0523

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SHEET NO.



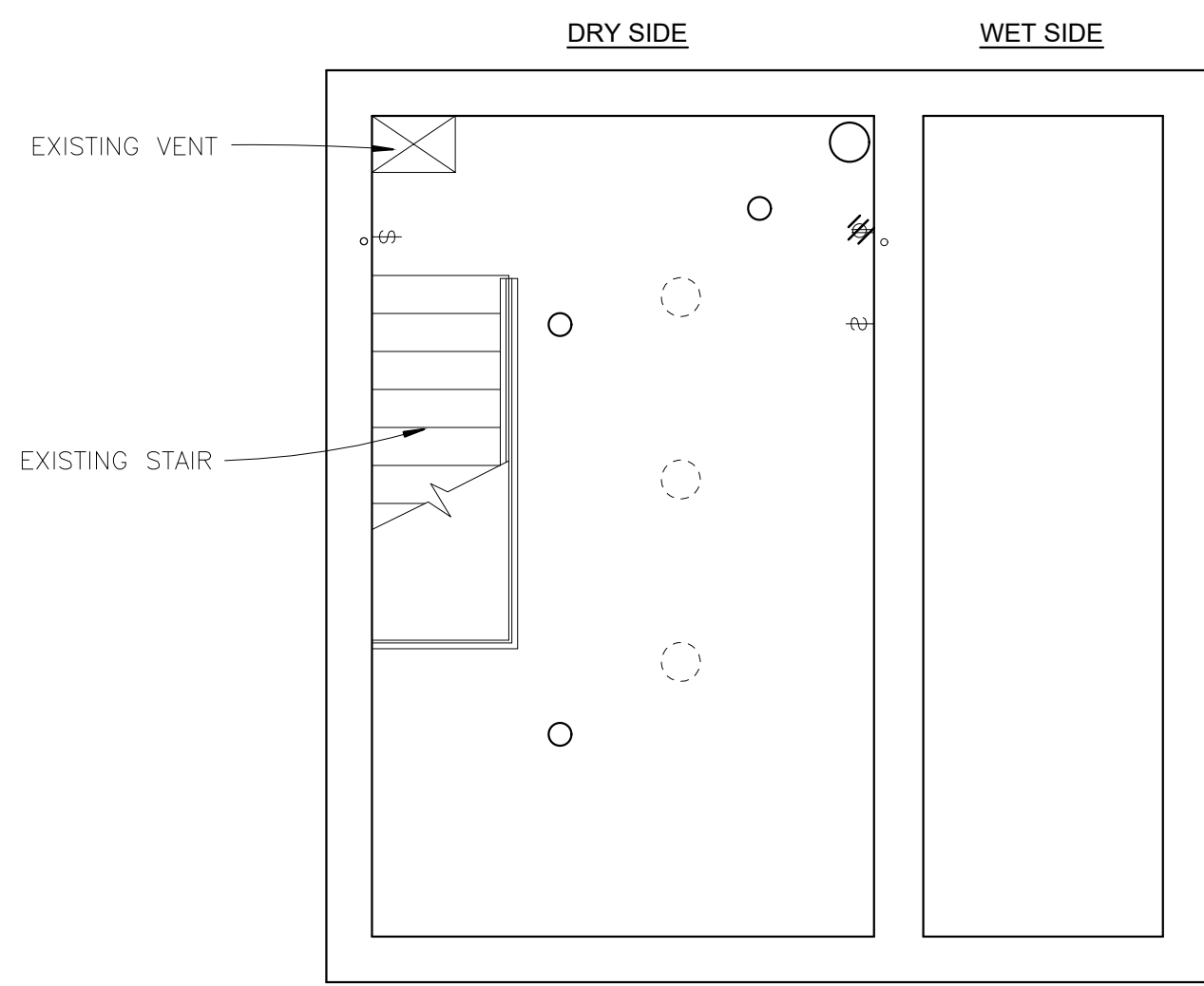
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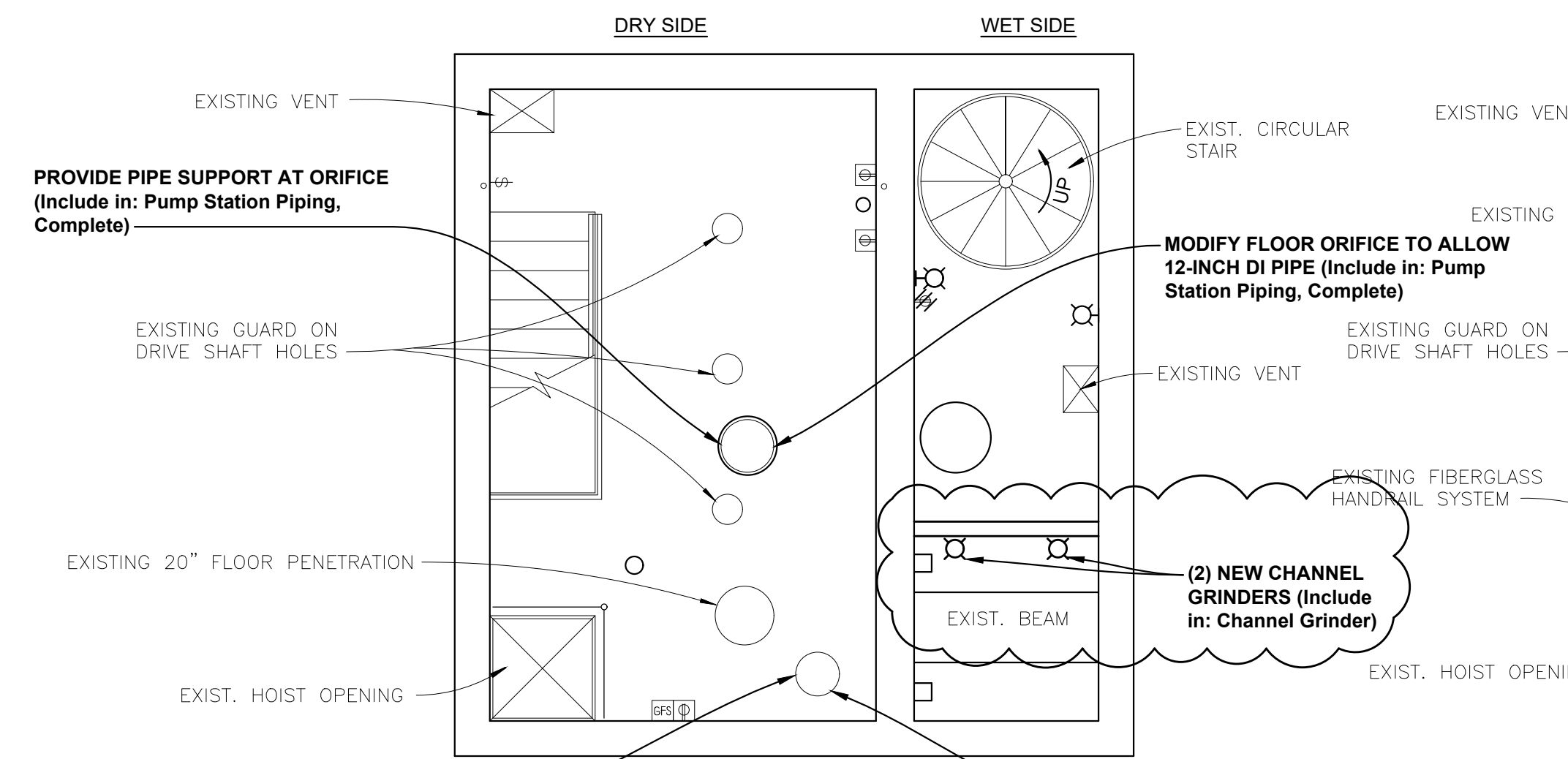
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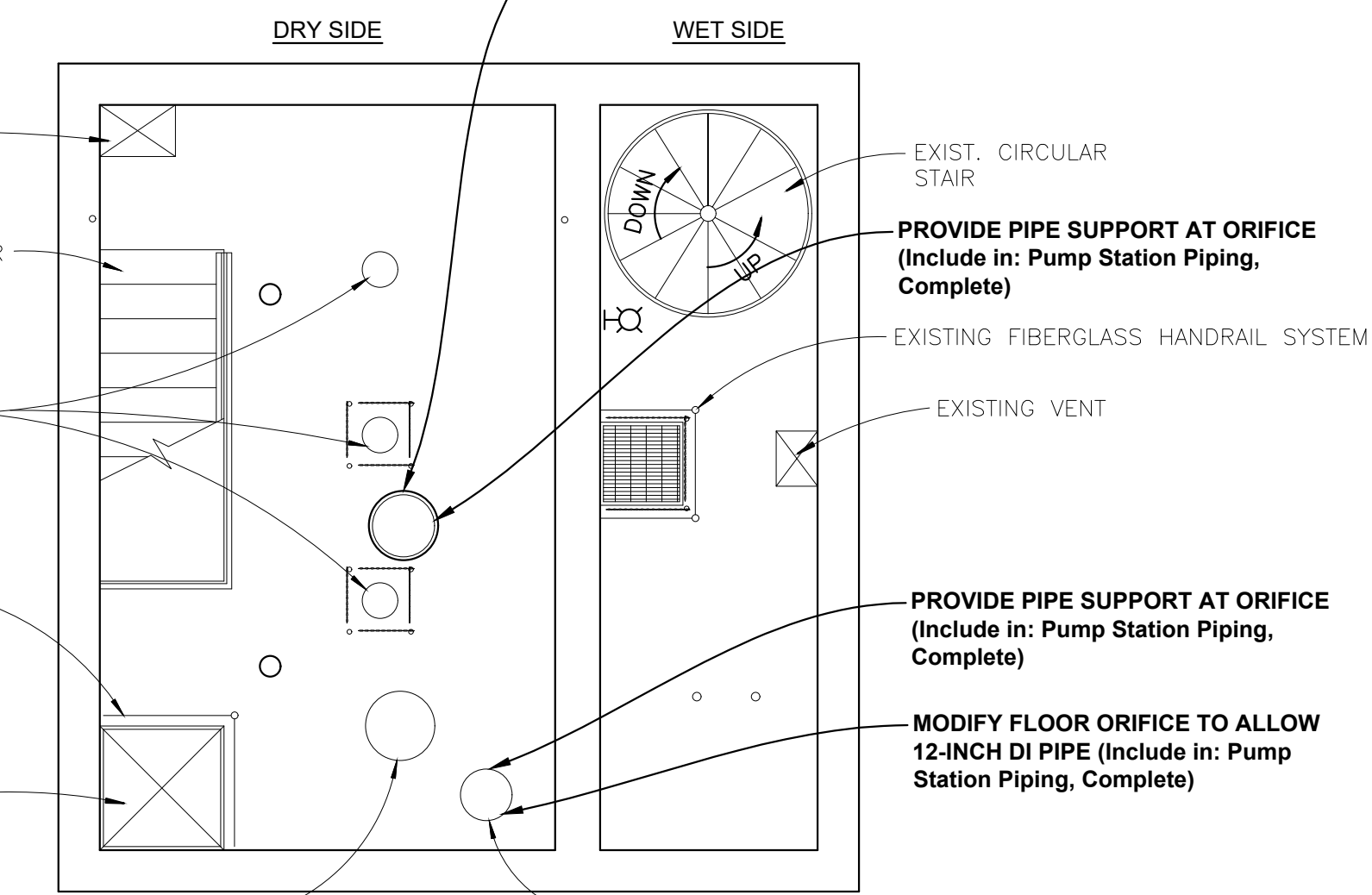
**PROPOSED BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 584.79  
WET SIDE FLOOR ELEV 583.66



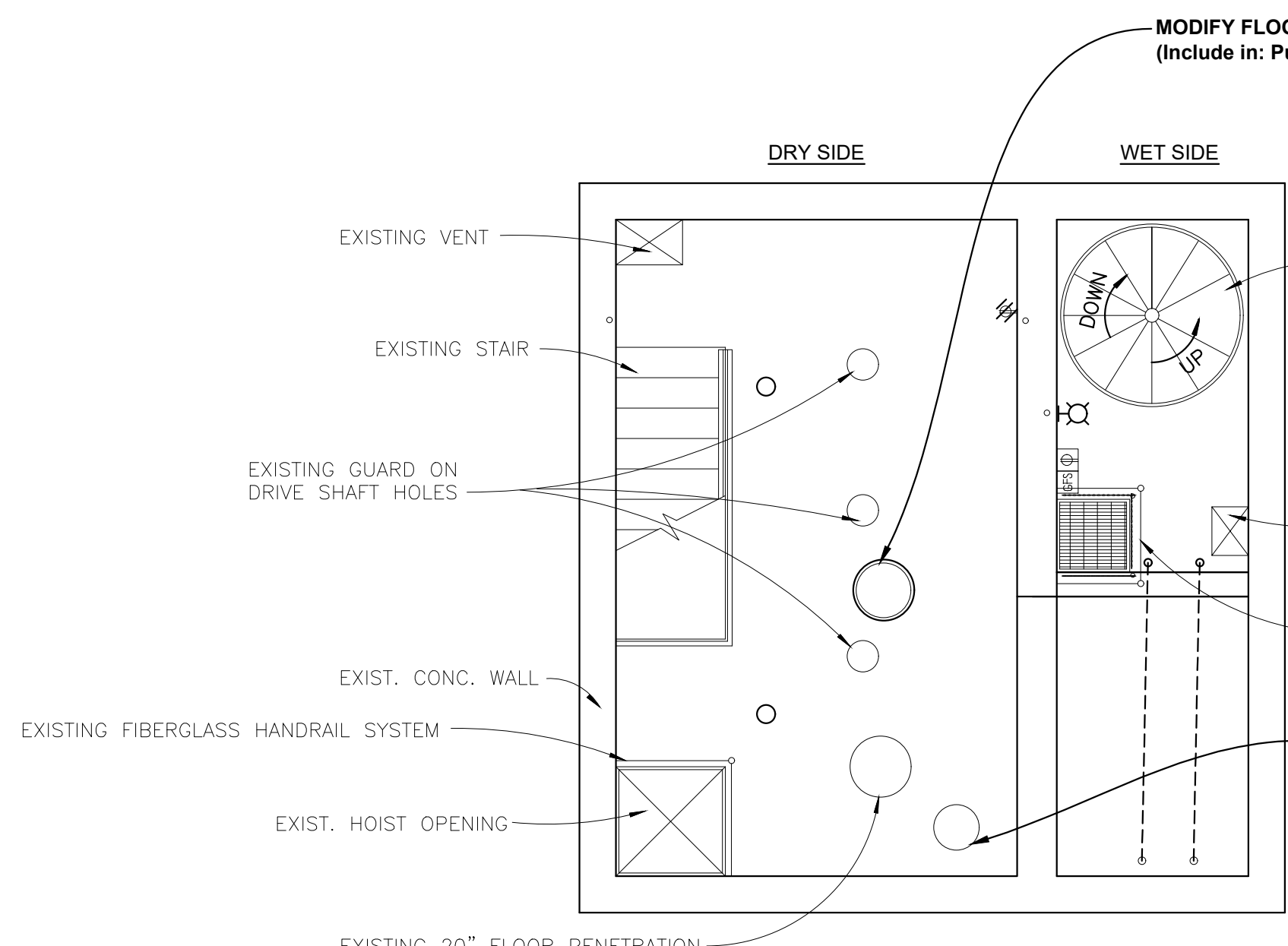
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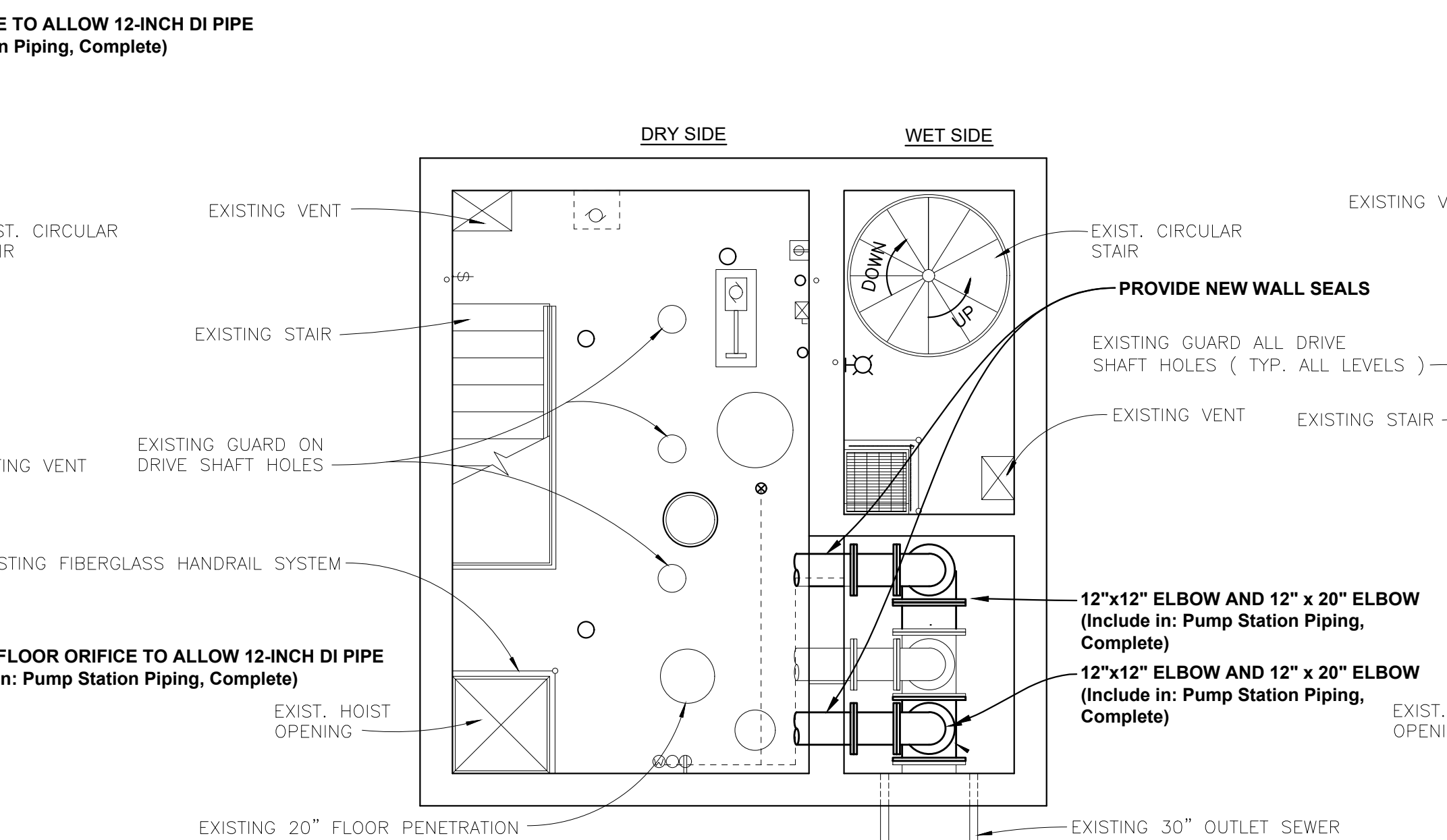
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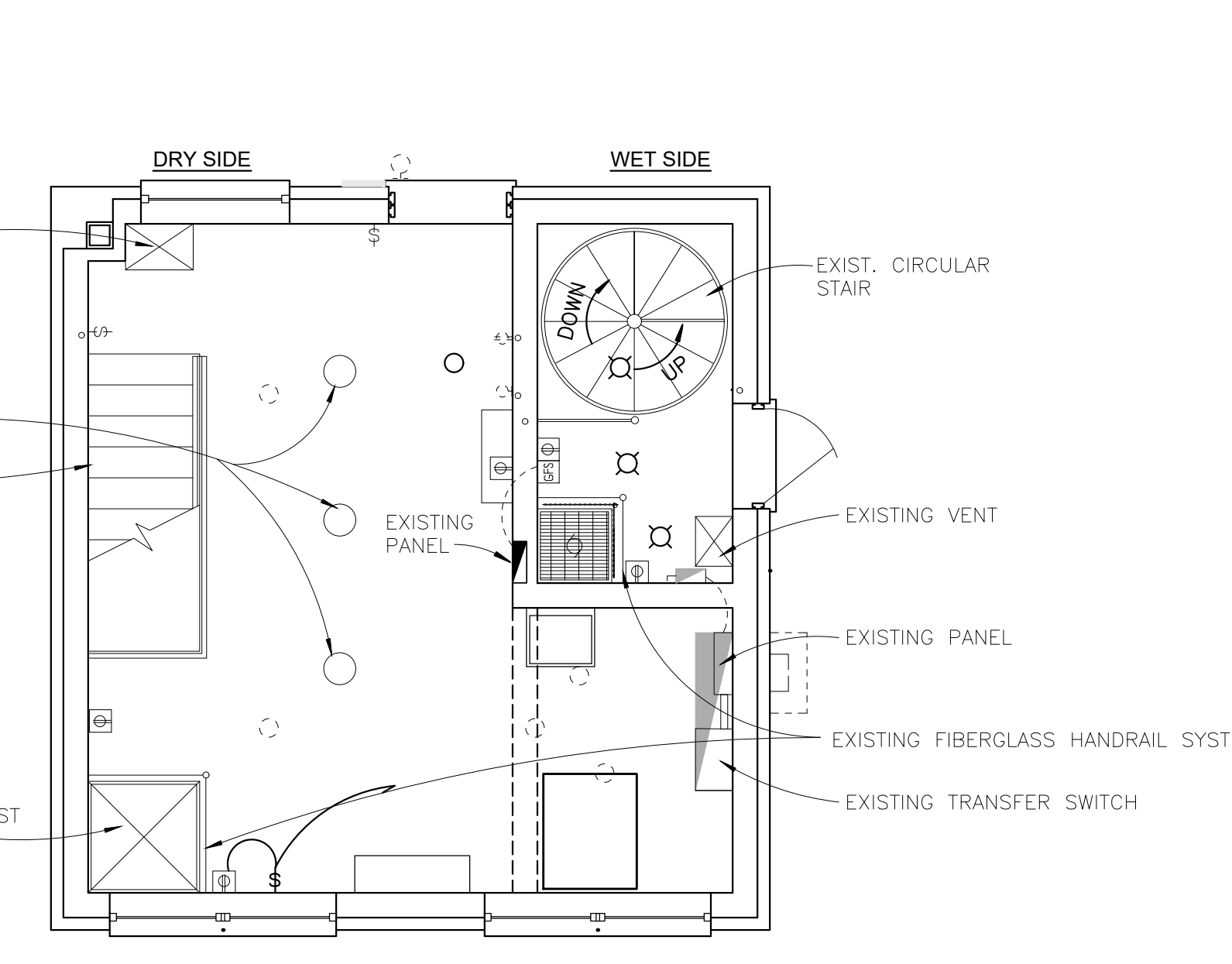
**PROPOSED SECOND SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 610.42  
WET SIDE FLOOR ELEV 610.42



**PROPOSED FIRST SUB-BASEMENT LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

SCALE 1/4" = 1'-0" DRY SIDE FLOOR ELEV 618.44  
WET SIDE FLOOR ELEV 618.44



**PROPOSED GROUND LEVEL  
MECHANICAL & STRUCTURAL MODIFICATIONS**

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WET SIDE ELEV GRADE LEVEL 626.46

6/12/2024	Addendum No. 1
5/23/2024	Bid Set
3/14/2024	80% Plan Set
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

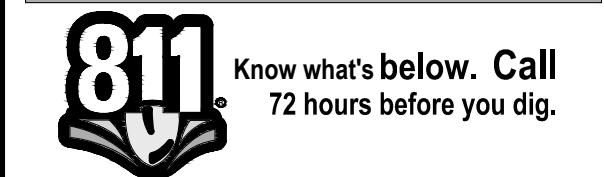
**STEPHENS PUMP STATION  
AND CL-S-1 METER PIT  
IMPROVEMENTS**

SHEET TITLE:

**PUMP STATION  
CONSTRUCTION  
PLAN VIEW**

CLIENT:  
CITY OF CENTER LINE

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: MJS	CHECKED BY: TMS	DATE: MARCH 2024
SCALE: 1/4" = 1'		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0170-0523

M:\0170\0170-0523\CIVIL\CAD\DRAWINGS\ENG\01\_ENG\PLANS.DWG  
17\_Pump Station Const-6/12/2024 3:12:41 PM

SHEET NO.



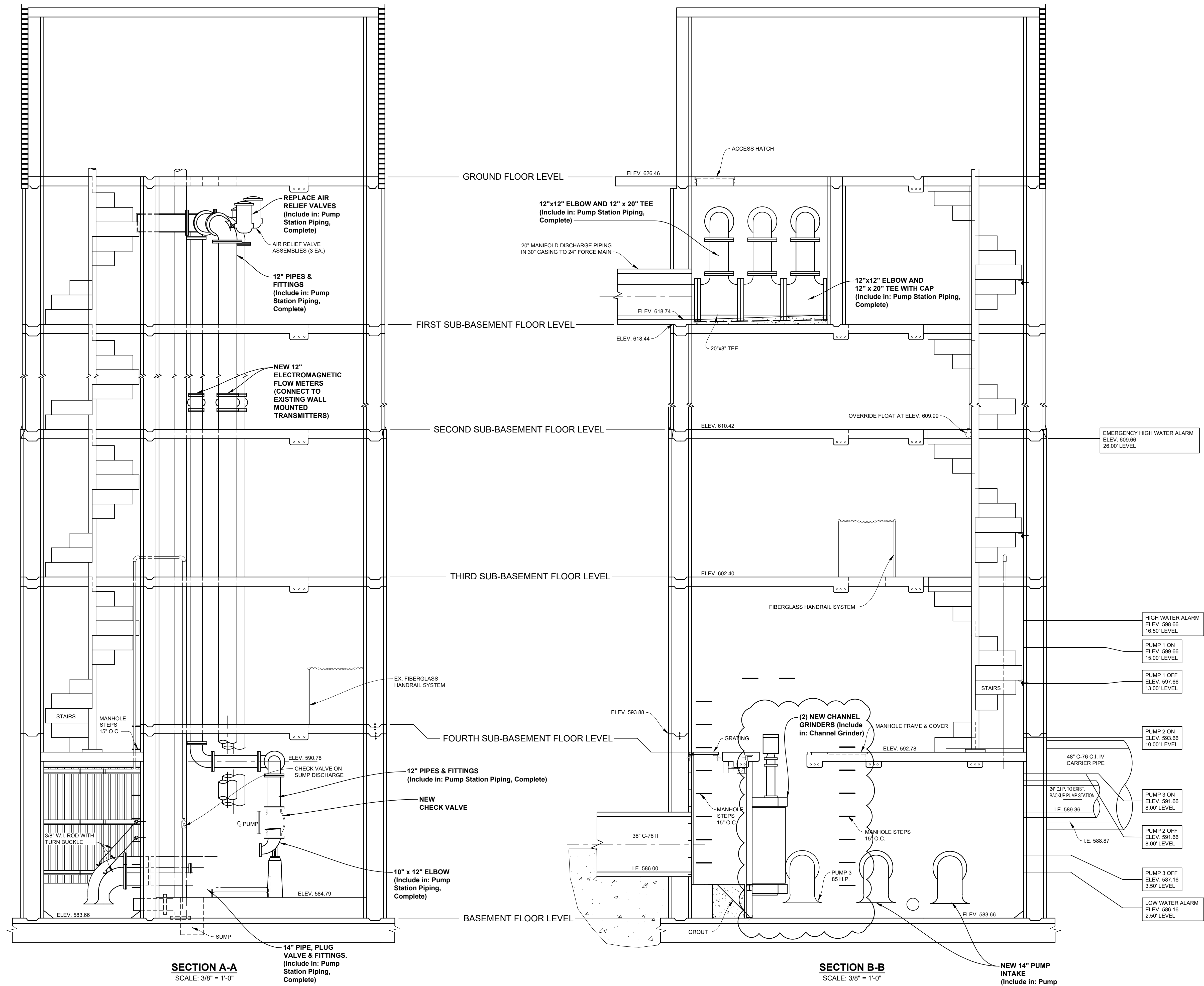
ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234  
Shelby Township Michigan 48315 Fax 586 726 8780

www.aewinc.com

ENGINEERING STRONG COMMUNITIES



SECTION A-A  
SCALE: 3/8" = 1'-0"

SECTION B-B  
SCALE: 3/8" = 1'-0"

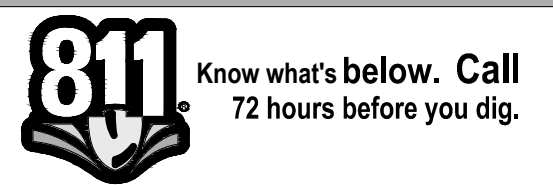
6/12/2024	Addendum No. 1
9/23/2024	Bid Set
3/14/2024	80% Plan Set
DATE	SUBMITTALS/REVISIONS

STEPHENS PUMP STATION AND CL-S-1 METER PIT IMPROVEMENTS

PUMP STATION MOTOR ROOM CONSTRUCTION SECTION

CLIENT: CITY OF CENTER LINE

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: MJS	CHECKED BY: TMS	DATE: MARCH 2024
SCALE: NOT TO SCALE		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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PROJECT NO. 0170-0523

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19\_Pump Station Const Section-6/12/2024 3:03:57 PM

SHEET NO.



CITY OF CENTER LINE

SPECIAL PROVISION  
FOR  
**CHANNEL GRINDER**

AEW / tms

1 of 1

0170-0523

**a. Description.** This work consists of the removal and demolition of the existing channel grinders and installation and placement of Channel Grinders within the pump station wet well.

**b. Materials.** Provide channel Titan Taskmaster high flow “full cut” grinder model TM14052 or approved equal. Contractor shall shop drawings of wall connections and materials to the engineer for approval before ordering.

Motors shall be provided with submersible service. The contractor shall utilize the existing electrical system to the current grinder units. The channel grinders shall be then connected to Center Line’s SCADA system (Connection within the station). The Contractor shall provide and install equipment and work with the City of Center Line Instrumentation Engineer in order to properly connect to the existing SCADA system. Wiring shall be replaced to the terminals currently used by the existing channel grinders. The contractor shall ensure proper startup of the channel grinders and shall demonstrate operability before acceptance by the owner and engineer.

**c. Construction.**

The contractor shall furnish and install all equipment necessary to connect the channel grinders to the existing station power and cities SCADA network. All manufacturer recommendations shall be followed during startup. The Contractor shall perform startup services and instruct DPW staff on how to maintain the devices.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for as part of the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Channel Grinder .....	Each