

**ADDENDUM NO. 1  
TO  
CONTRACT DOCUMENTS  
FOR  
CITY OF GRAND ISLAND, NE  
WASTEWATER TREATMENT PLANT FLOW IMPROVEMENTS  
PROJECT NO. 2020-WWTP-4**

**DATE OF ISSUE: February 21<sup>st</sup>, 2022**

**TO: PROSPECTIVE BIDDERS AND OTHER INTERESTED PARTIES**

**BID LETTING: MARCH 9, 2022 @ 2:00 PM (CST)**

**Items Included and Attached with this Addendum:**

*Attachment 1 – Pre Bid Meeting Minutes and Attendees*

*Revised Sheets as noted below.*

THE CONTRACT DOCUMENTS ARE HEREBY MODIFIED BY THE FOLLOWING ITEMS:

**CHANGES TO SPECIFICATIONS**

**AD-1 Item 1 SECTION 01 14 16-3**

- A. ADD Line 1.5 B. 7. e: “Contractor to account for 8 cubic yards per basin (total of 32 cubic yards) of dry grit and other solids that will need to be removed and hauled away as part of cleaning the aeration basins.”
  
- B. ADD Line 1.5 B. 8: “The City has a separate contract with an independent contractor to replace and clean diffusers in aeration basin #3. This work is scheduled to occur during this construction contract when the aeration basin #3 modifications are being constructed. Contractor to notify the City 4 weeks in advance on when the basin will be cleaned and ready for this work to occur. Contractor shall allow access to the independent contractor to basin #3 and up to 5 days in the construction schedule for this work to occur. Contractor can perform other work in the basin during this time with proper coordination with the independent contractor and City”

**AD-1 Item 2 SECTION 01 14 16-4**

- A. ADD Line 1.6 C. 4. D. 6: “Contractor to use bypass pumping as necessary to complete the improvements at the final clarifier splitter structure.”

AD-1 Item 3 Section 26 29 25-4

- A. DELETE the Following
  - 1. 2.1 A. 3: "Eaton."
  - 2. 2.1 A. 4: "Danfoss."
  - 3. 2.1 A. 5: "Siemens/Robicon."
  - 4. 2.1 A. 6: "Siemens"
  - 5. 2.1 A. 7: "Square D Company."

AD-1 Item 4 Section 40 05 59-2

- A. ADD Line 2.1 A. 4: "Hydro Gate."

AD-1 Item 5 Section 40 10 15-3

- A. Line 2.2 B: DELETE "110 DEGF" and Replace with "100 DEGF"
- B. ADD Line 2.2 E: "Stiffness Class SN-46"

AD-1 Item 6 SECTION 40 61 13

- A. DELETE the following:
  - 1. 1.2 B. 2 "PLC/DCS Programmer" and subheadings
  - 2. 1.2 B. 3 "HMI Programmer" and subheadings
  - 3. 1.2 B. 4 "Network Configurator" and subheadings
  - 4. 1.4 B. 1. b. 3) "Controller Programming."
  - 5. 1.4 B. 1. b. 4) "HMI Configuration."
  - 6. 1.4 B. 1. b. 6) "Computer and network equipment configuration"
  - 7. 1.5 A. 7 "HMI graphics"
- B. Add the following
  - 1. 1.4 C. "PLC Programming, HMI Programming and Network Configuration"
  - 2. 1.4 C. 1. "PLC Programming, HMI Programming and Network Configuration will be contracted separately by the City. Contractor's system integrator to coordinate with the City and provide information as necessary for this work to be completed"

AD-1 Item 7 46 41 23-2

- A. ADD Line 2.2 A. 1. e: "VEGA".

### CHANGES TO DRAWINGS

AD-1 Item 8 DRAWING 00D101 – OVERALL SITE PLAN

- A. Replace Sheet 00D101 with attached, Revised Sheet 00D101.

AD-1 Item 9 00E101 – ELECTRICAL SITE PLAN

- A. Replace Sheet 00E101 with attached, Revised Sheet 00E101.

AD-1 Item 10 00Y601 - JBS SAMPLING BUILDING AND FDS STRUCTURE PROCESS AND INSTRUMENTATION.

- A. Replace Sheet 00Y601 with attached, Revised Sheet 00Y601.

AD-1 Item 11 00Y602 – ALTERNATIVE B AERATION BASIN INFLUENT PUMPING PROCESS AND INSTRUMENTATION

- A. Replace Sheet 00Y602 with attached, Revised Sheet 00Y602

AD-1 Item 12 00Y603 – AERATION BASIN LIQUID PLOW PROCESS AND INSTRUMENTATION

- A. Replace Sheet 00Y603 with attached, Revised Sheet 00Y603

AD-1 Item 13 04D302 – AERATION BASIN – SECTION AND DETAILS

- A. Replace Sheet 04D302 with attached, Revised Sheet 04D302

AD-1 Item 14 04S501 – MIXED LIQUOR RETURN AERATION BASINS STRUCTURAL DETAILS

- A. Replace Sheet 04S501 with attached, Revised Sheet 04S501

ALL ITEMS IN CONFLICT WITH THE ADDENDA ARE HEREBY DELETED.

THIS ADDENDUM IS MADE PART OF THE CONTRACT DOCUMENTS AND SHALL BE NOTED ON THE BID FORM

HDR ENGINEERING, INC.

*Amit Shrivastava*

Amit Shrivastava, P.E.



**PRE-BID MEETING MINUTES**  
**February 10, 2022 at 1:30 PM**

**City of Grand Island, NE**  
**2020-WWTP-4 Wastewater Treatment Plant Flow Improvements**

**Introductions**

- A. This meeting is intended to disseminate information to the potential bidders. Statements made in this meeting are not binding unless included in the bid documents and/or included in an addendum issued prior to the receipt of bids.
- B. This pre-bid conference is optional.

**Project Overview**

A. Project Description

- 1. The project work includes improvements to the industrial flow measurement facilities, industrial flow diversion improvements, abandonment of yard piping, aeration basin improvements, and final clarifier splitter structure improvements. The following is an overview of each Project Classified System (PCS) of the project. Refer to Section 01 75 00 for descriptions of PCS's.
  - a. Industrial flow measurement improvements will include work to remove the existing air release structure where JBS flow enters the plant and constructing a new parshall flume structure with water quality sensors along with necessary electrical and control elements.
  - b. Industrial flow diversion work will include removal of some existing yard piping and routing new piping to the flow distribution structure. This work includes necessary pavement removals and replacements.
  - c. There is a section of yard piping between the flow distribution structure and the aeration basins to be abandoned along with the abandonment of an existing valve vault.
  - d. Aeration basin improvement work will include the removal of several gates, installation of new gates, relocating mixers, installation of new MLR pumps and associated piping, removing older power and control circuits and running new wiring, and replacing chemical storage and feed equipment.
  - e. Final clarifier splitter work will include the removal of existing aluminum gates and replacing with stainless steel gates. The addition of a generator distribution cabinet to is also part of this work.

Discussion:

- Note that Alternate C will reduce the bypass pumping duration.

B. Project Constraints

- 1. This is an operational wastewater treatment facility and treatment operations must continue during construction except for specified shutdowns. Refer to Section 01 14 16 for details of coordinating with Owner's operation of the plant.
  - a. Owner's personnel shall have access to equipment and areas of the facility that remain in operation.
  - b. Provide temporary partitions and enclosures necessary to maintain dust-free, heated, and ventilated spaces in areas of the facility that are adjacent to the Work and that must be kept operational.
  - c. Equipment and systems shall not be placed into operation on Friday, Saturday, Sunday, or holidays without prior approval of Owner, unless specifically indicated otherwise in the contract documents.
  - d. Owner will assist Contractor in dewatering process tanks, basins, conduits, and other work areas to be dewatered for shutdowns.
    - i. See paragraph 1.5.B.7 for draining and cleaning of tanks, basins, and conduits.
    - ii. Two adjacent aeration basins cannot be out of service at the same time.

Discussion:



- The owner is planning to replace the diffusers in Basin #3. The City would like to replace the diffusers while Basin #3 is out of service for this contract. Diffuser replacement will be a separate contractor but will require coordination with the flow improvements contractor.
- It is estimated that 5-8 CY of grit is expected to be in the aeration basins. This grit will be required to be removed.
- Engineer’s OPCC for the project is approximately \$9.5 million.
- The schedule allows 24 months to complete the work. This includes extra time to account for material lead issues which may result from the current market conditions. If material availability improves the work can be completed in a shorter time frame.
- The specifications will be revised to reflect Dave Park doing the programming for the City.

2. Sequence of work

- a. Suggested sequencing is in Section 01 14 16.
- b. The general order of construction shall be
  - i. PCS 03: Existing Bypass Piping Demolition
  - ii. PCS 02: Industrial Bypass Piping and Flow Distribution Structure
  - iii. PCS 01: New Parshall Flume and Demolition of Existing Air Release Manhole
  - iv. PCS 04: North and South Aeration basins Mixed Liquor Return, Alternate A, B, and C
  - v. PCS 05: Final Clarifier Splitter Structure

**Bidding Documents, Bid Submission & Selection**

- A. Bid Opening March 9, 2022 at 2:00 pm.
- B. Bid must contain a completed Bidder Checklist
- C. Bid Bond – 5%
- D. Bid Form
  1. Base Bid

**BASE BID SECTION-**

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	PCS 01: NEW PARSHALL FLUME AND DEMOLITION OF EXISTING AIR RELEASE MANHOLE	1.00	LS	\$	\$
2	PCS 02: INDUSTRIAL BYPASS PIPING AND FLOW DISTRIBUTION STRUCTURE	1.00	LS	\$	\$
3	PC 03: EXISTING BYPASS PIPING DEMOLITION	1.00	LS	\$	\$
4	PCS 04: NORTH & SOUTH AEARTION BASINS MIXED LIQUOR RETURN	1.00	LS	\$	\$
5	PCS 05: FINAL CLARIFIER SPLITTER STRUCTURE	1.00	LS	\$	\$
6	MOBILIZATION/DEMOBILIZATION, BONDS, PERMITS, AND INSURANCE	1.00	LS	\$	\$

**BASE BID SECTION TOTAL= \$ \_\_\_\_\_**

2. Bid alternate A – Provide Micro C Storage Tanks
3. Bid alternate B – Provide VFD’s for aeration basin screw pumps
4. Bid alternate C- Provide permanent installation of Bypass Piping and Replace Concrete Pavements

All alternates will be evaluated and may be accepted or rejected as the sole discretion of the Owner

- E. Insurance requirements
- F. Named equipment and subcontractors
- G. Grand Island Standard Plans and Specifications.
- H. HDR supplemental Plans and Specifications.

**Taxes and Wages**

- A. Project is Tax Exempt – Materials being purchased and incorporated into the work are tax exempt. Purchasing Agent Appointment for and Exempt Sales Certificate will be issued with the contract documents.

**Project Schedule**

- A. The Work shall be Substantially Complete 24 months from the Notice to Proceed date.
- B. All work shall be complete and accepted 26 months from the Notice to Proceed date.

**RPR and Material Testing/Special Inspections**

- A. JEO will provide RPR services.
- B. GSI will provide material testing/special inspections.

**Permits**

- A. Permits obtained by Owner
  - 1. NDEE construction permit.
- B. Permits obtained by Contractor
  - 1. NPDES Construction Stormwater Permit per the requirements of Nebraska Department of Environment and Energy (NDEE), including CSW-NOI and SWPPP.
  - 2. All other permits, licenses, and bonds necessary for the prosecution of Contractor’s work and/or required for municipal, State and Federal regulations and laws.

**Questions**

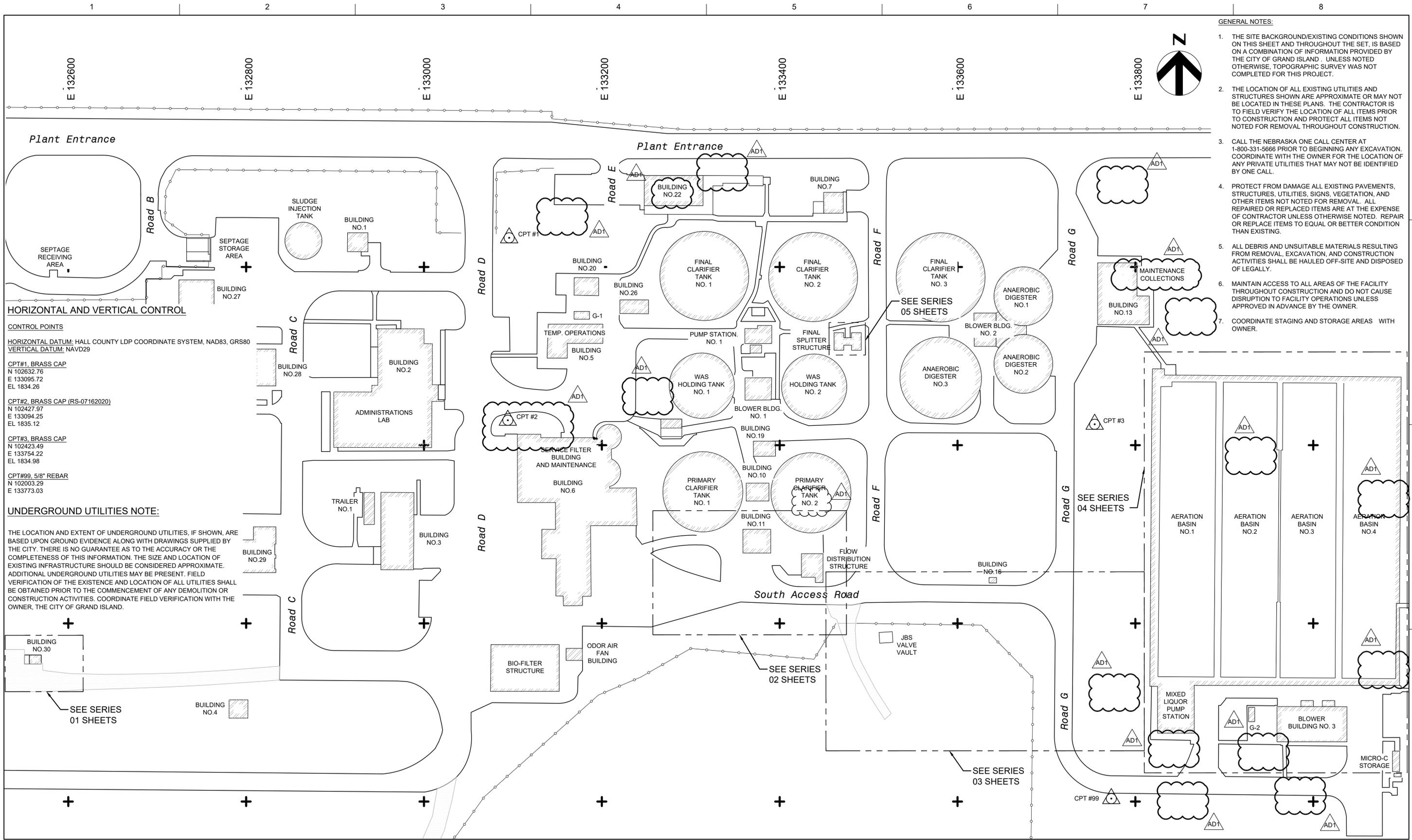
- Is there a soils report?
  - Soil borings were not completed for this project. There may be a geotechnical report from a previous project available, if so, it will included by addendum.
  - Previous ground water readings have been as follows at a location just east of WAS Holding Tank No. 2
    - 11 June, 2020 – Elevation 1829.25
    - 5 March, 2021 – Elevation 1828.00
    - 14 February, 2022 – Elevation 1827.75
- The target date for Addendum 1 is February 21, 2022.

**PRE-BID MEETING SIGN IN SHEET  
February 10, 2022 at 1:30 PM**

**City of Grand Island , NE  
2020-WWTP-4 Wastewater Treatment Plant Flow Improvements**

<b>Name</b>	<b>Representing</b>	<b>Telephone</b>	<b>Email</b>
Russell Riddle	BRB / Ken Johnson	785-390-1134	<a href="mailto:Kenjohnson@brbcontractors.com">Kenjohnson@brbcontractors.com</a>
Lee Dunn	Gurney and Assc.	402-709-3646	<a href="mailto:Lee@bgagurney.com">Lee@bgagurney.com</a>
Keith Kurz	GI PW	303-389-0274	<a href="mailto:KeithK@grand-island.com">KeithK@grand-island.com</a>
Ben Thayer	Diamond Engineering	308-390-3786	<a href="mailto:bthayer@diamondeng.com">bthayer@diamondeng.com</a>
Nathan Carlson	Strobel Energy Group	308-548-8674	<a href="mailto:Ncarlson@strobelenergy.com">Ncarlson@strobelenergy.com</a>
Jeff Soe	Building Crafts	712-623-4032	<a href="mailto:jsoe@buildingcrafts.com">jsoe@buildingcrafts.com</a>
Joel Hulinsky	IES	308-379-8327	<a href="mailto:Joel.hulinsky@iesci.net">Joel.hulinsky@iesci.net</a>
Perry Myers	Myers Const Inc.	308-870-1200	<a href="mailto:myerco@kdsi.net">myerco@kdsi.net</a>
Christopher Myers	Myers Const Inc.	308-870-3504	<a href="mailto:Myerco@kdsi.net">Myerco@kdsi.net</a>
Andrew Wilshusen	JEO	402-768-1120	<a href="mailto:awilshusen@jeo.com">awilshusen@jeo.com</a>

Name	Representing	Telephone	Email
Kent Redwinz	Diamond Engineering	308-382-8362	<a href="mailto:KentR@diamdeng.com">KentR@diamdeng.com</a>
Mitchell Griffith	Commonwealth Electric	402-270-6415	<a href="mailto:mgriffith@commonwealthelectric.com">mgriffith@commonwealthelectric.com</a>
Matt Walker	GI WWTP	308-385-5430	<a href="mailto:mattw@grand-island.com">mattw@grand-island.com</a>



- GENERAL NOTES:**
1. THE SITE BACKGROUND/EXISTING CONDITIONS SHOWN ON THIS SHEET AND THROUGHOUT THE SET, IS BASED ON A COMBINATION OF INFORMATION PROVIDED BY THE CITY OF GRAND ISLAND. UNLESS NOTED OTHERWISE, TOPOGRAPHIC SURVEY WAS NOT COMPLETED FOR THIS PROJECT.
  2. THE LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES SHOWN ARE APPROXIMATE OR MAY NOT BE LOCATED IN THESE PLANS. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION OF ALL ITEMS PRIOR TO CONSTRUCTION AND PROTECT ALL ITEMS NOT NOTED FOR REMOVAL THROUGHOUT CONSTRUCTION.
  3. CALL THE NEBRASKA ONE CALL CENTER AT 1-800-331-5666 PRIOR TO BEGINNING ANY EXCAVATION. COORDINATE WITH THE OWNER FOR THE LOCATION OF ANY PRIVATE UTILITIES THAT MAY NOT BE IDENTIFIED BY ONE CALL.
  4. PROTECT FROM DAMAGE ALL EXISTING PAVEMENTS, STRUCTURES, UTILITIES, SIGNS, VEGETATION, AND OTHER ITEMS NOT NOTED FOR REMOVAL. ALL REPAIRED OR REPLACED ITEMS ARE AT THE EXPENSE OF CONTRACTOR UNLESS OTHERWISE NOTED. REPAIR OR REPLACE ITEMS TO EQUAL OR BETTER CONDITION THAN EXISTING.
  5. ALL DEBRIS AND UNSUITABLE MATERIALS RESULTING FROM REMOVAL, EXCAVATION, AND CONSTRUCTION ACTIVITIES SHALL BE HAULED OFF-SITE AND DISPOSED OF LEGALLY.
  6. MAINTAIN ACCESS TO ALL AREAS OF THE FACILITY THROUGHOUT CONSTRUCTION AND DO NOT CAUSE DISRUPTION TO FACILITY OPERATIONS UNLESS APPROVED IN ADVANCE BY THE OWNER.
  7. COORDINATE STAGING AND STORAGE AREAS WITH OWNER.

Plant Entrance

**HORIZONTAL AND VERTICAL CONTROL**

**CONTROL POINTS**  
 HORIZONTAL DATUM: HALL COUNTY LDP COORDINATE SYSTEM, NAD83, GRS80  
 VERTICAL DATUM: NAVD29

**CPT#1, BRASS CAP**  
 N 102632.76  
 E 133095.72  
 EL 1834.26

**CPT#2, BRASS CAP (RS-07162020)**  
 N 102427.97  
 E 133094.25  
 EL 1835.12

**CPT#3, BRASS CAP**  
 N 102423.49  
 E 133754.22  
 EL 1834.98

**CPT#99, 5/8" REBAR**  
 N 102003.29  
 E 133773.03

**UNDERGROUND UTILITIES NOTE:**

THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES, IF SHOWN, ARE BASED UPON GROUND EVIDENCE ALONG WITH DRAWINGS SUPPLIED BY THE CITY. THERE IS NO GUARANTEE AS TO THE ACCURACY OR THE COMPLETENESS OF THIS INFORMATION. THE SIZE AND LOCATION OF EXISTING INFRASTRUCTURE SHOULD BE CONSIDERED APPROXIMATE. ADDITIONAL UNDERGROUND UTILITIES MAY BE PRESENT. FIELD VERIFICATION OF THE EXISTENCE AND LOCATION OF ALL UTILITIES SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES. COORDINATE FIELD VERIFICATION WITH THE OWNER, THE CITY OF GRAND ISLAND.

SEE SERIES 01 SHEETS

BUILDING NO.4

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



**CITY OF GRAND ISLAND**

**CITY OF GRAND ISLAND WASTEWATER TREATMENT PLANT FLOW IMPROVEMENTS**

**OVERALL SITE PLAN**

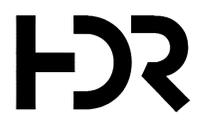
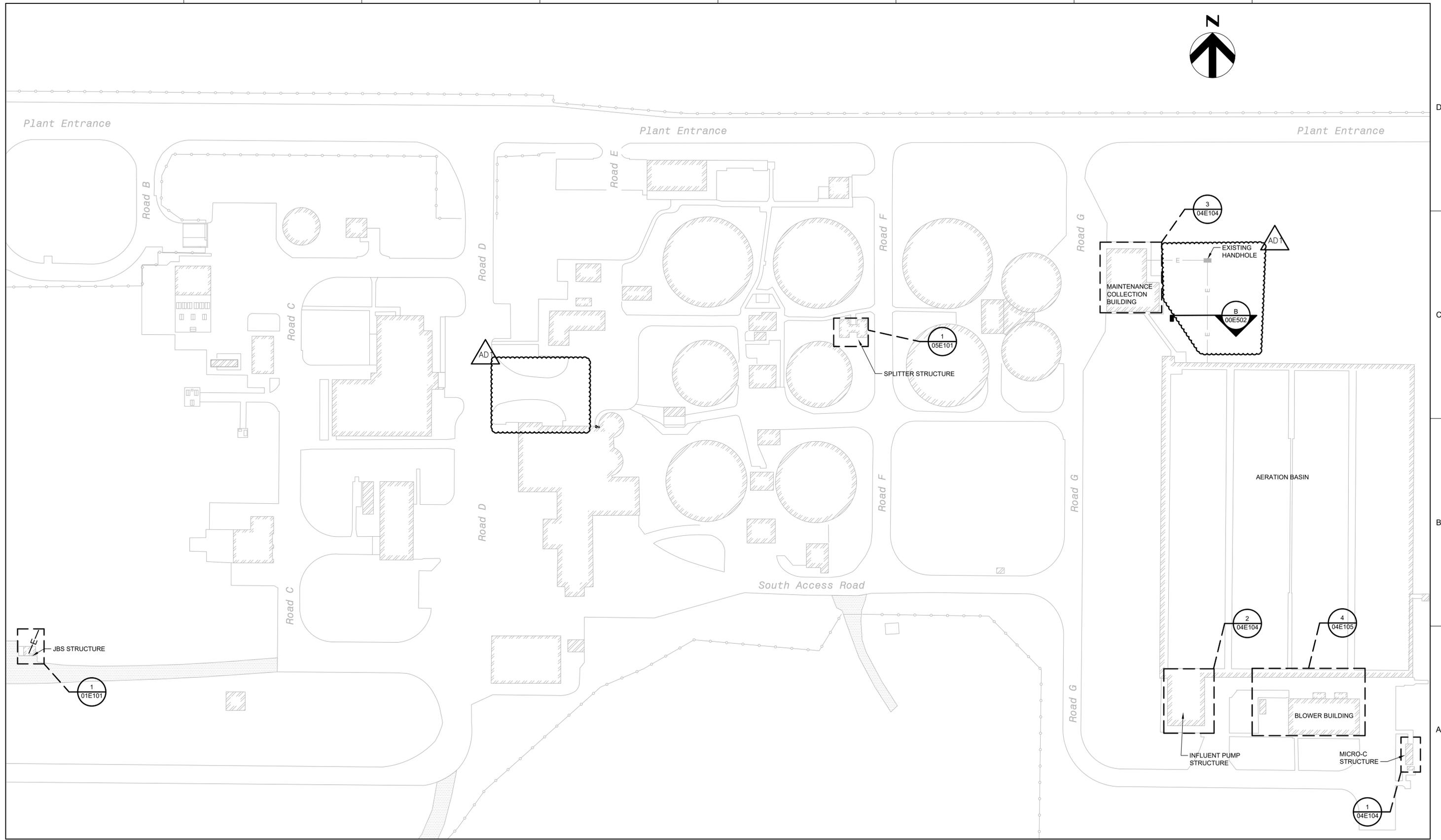


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SHEET  
**00D101**



ISSUE	DATE	DESCRIPTION
AD1	2/21/2022	ADDENDUM 1
	1/11/2022	ISSUED FOR BID
	12/23/2021	ISSUED FOR 100% REVIEW
	10/18/2021	ISSUED FOR 90% CLIENT REVIEW
	6/30/2021	ISSUED FOR 50% CLIENT REVIEW



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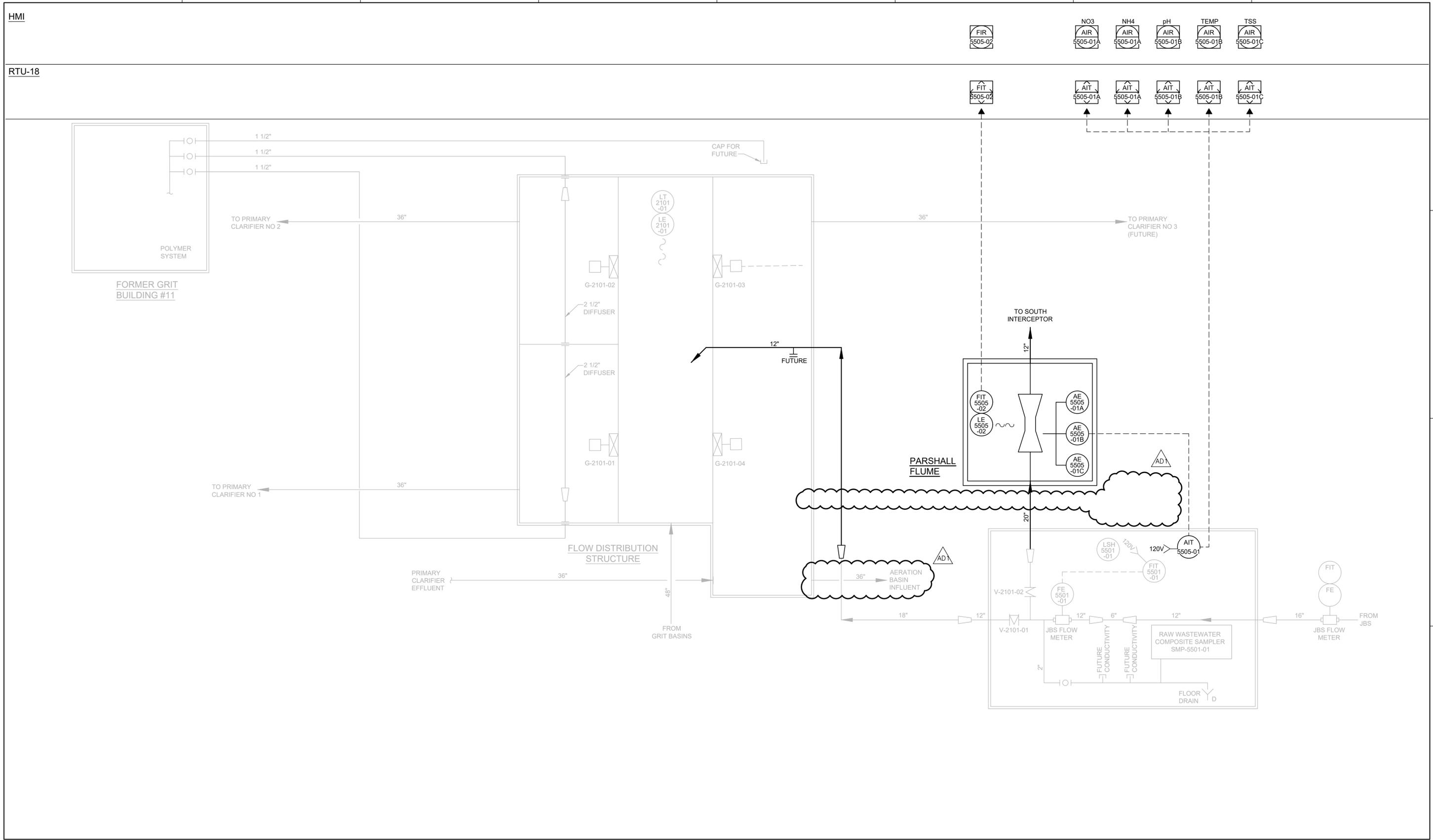
**CITY OF GRAND ISLAND  
WASTEWATER TREATMENT PLANT  
FLOW IMPROVEMENTS**

**ELECTRICAL SITE PLAN**



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SHEET  
**00E101**



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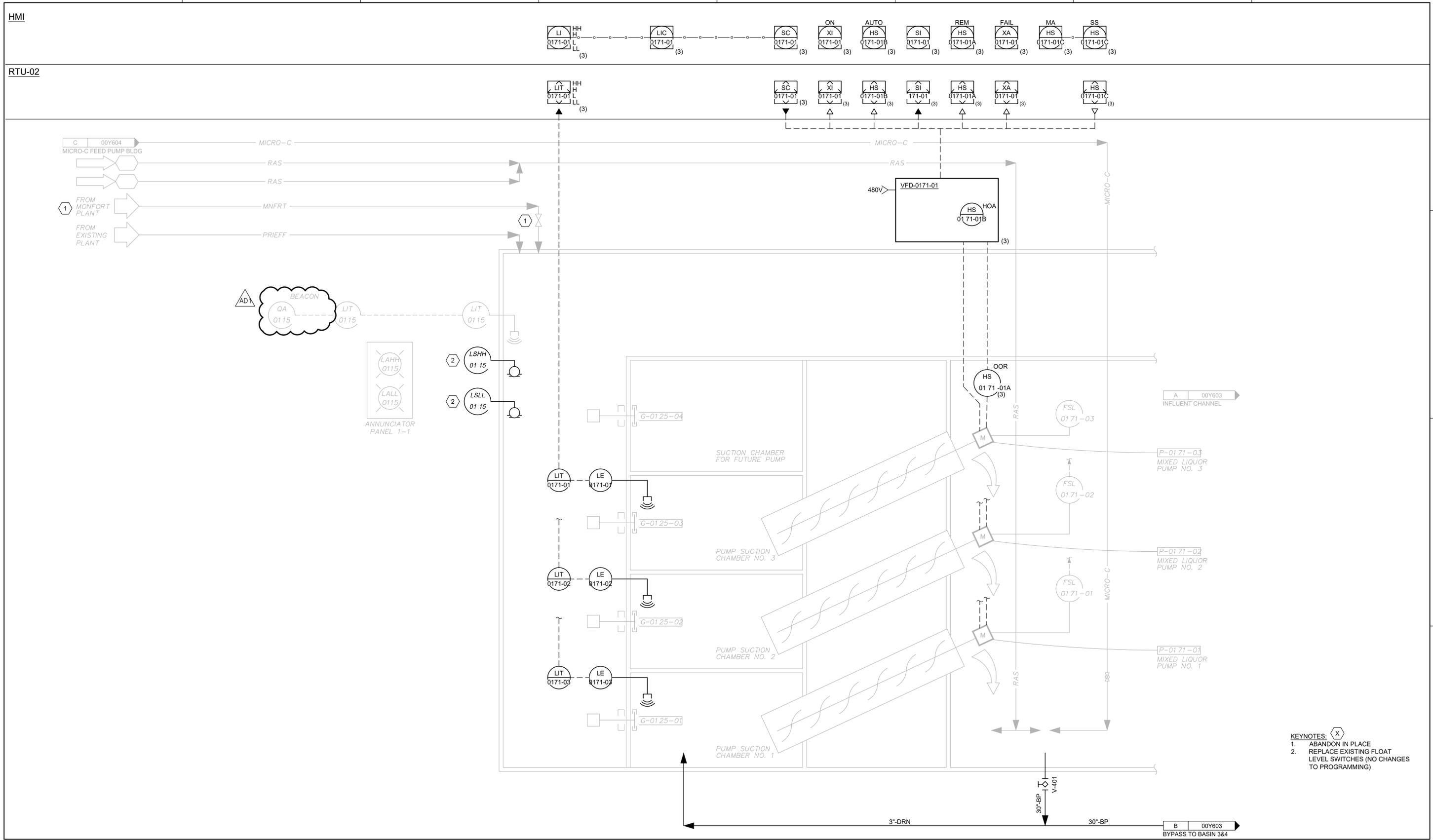
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**CITY OF GRAND ISLAND**  
**WASTEWATER TREATMENT PLANT**  
**FLOW IMPROVEMENTS**

**JBS SAMPLING BUILDING**  
**AND FDS STRUCTURE**  
**PROCESS AND INSTRUMENTATION**

0 1" 2"  
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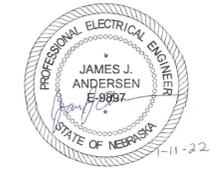


KEYNOTES: (X)  
 1. ABANDON IN PLACE  
 2. REPLACE EXISTING FLOAT LEVEL SWITCHES (NO CHANGES TO PROGRAMMING)



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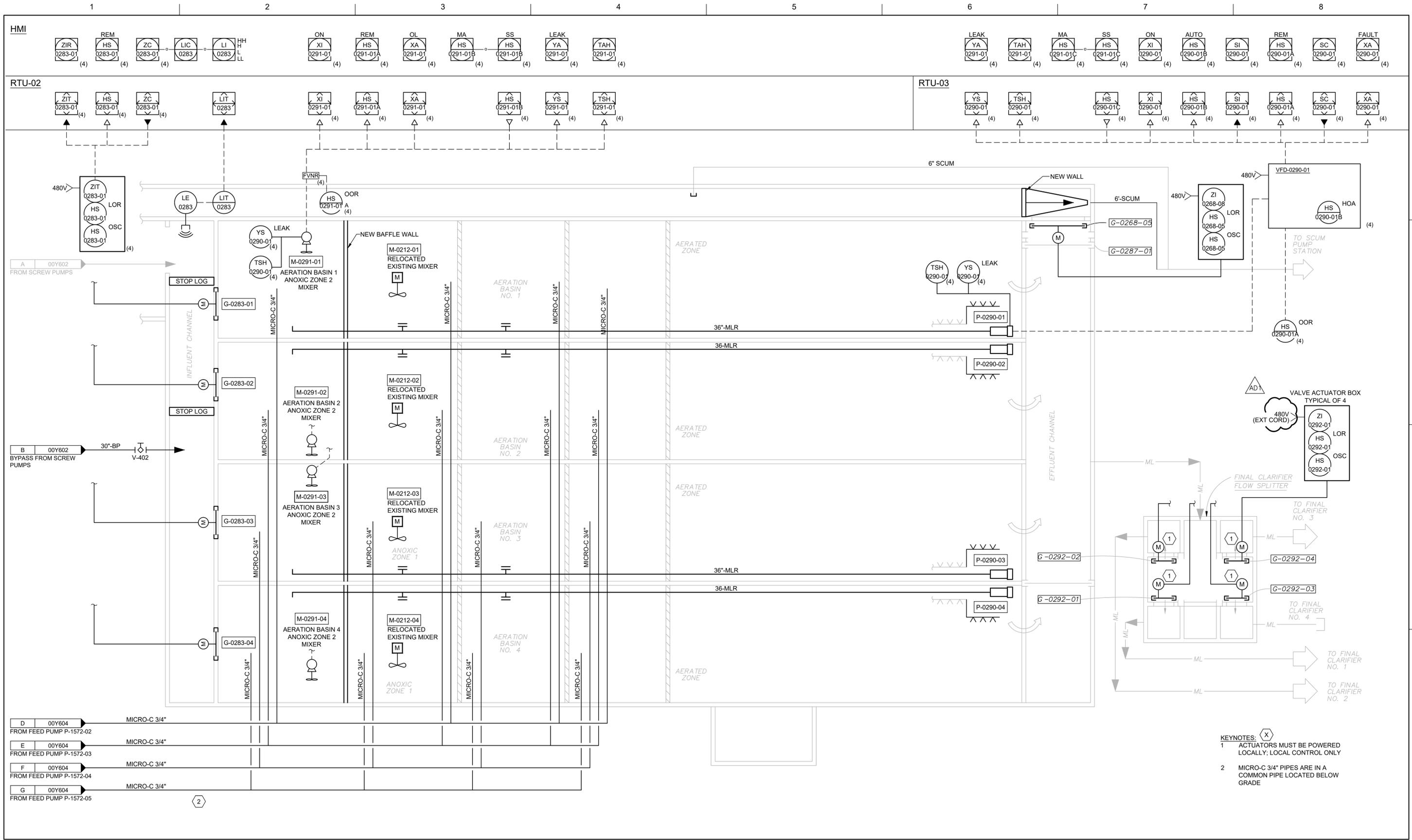
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CITY OF GRAND ISLAND  
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**ALTERNATIVE B  
 AERATION BASIN  
 INFLUENT PUMPING  
 PROCESS AND INSTRUMENTATION**

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 SHEET 00Y602



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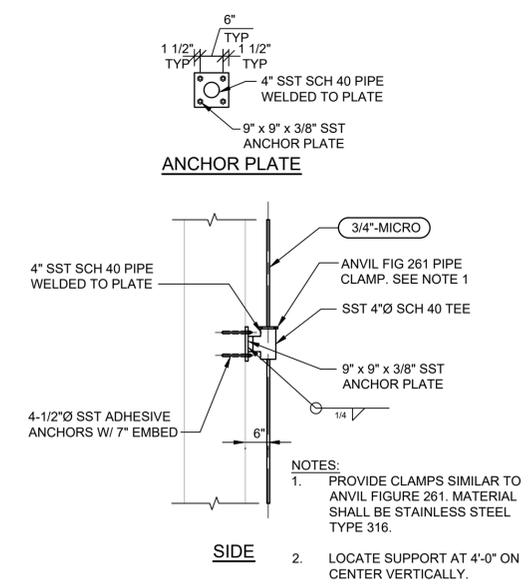
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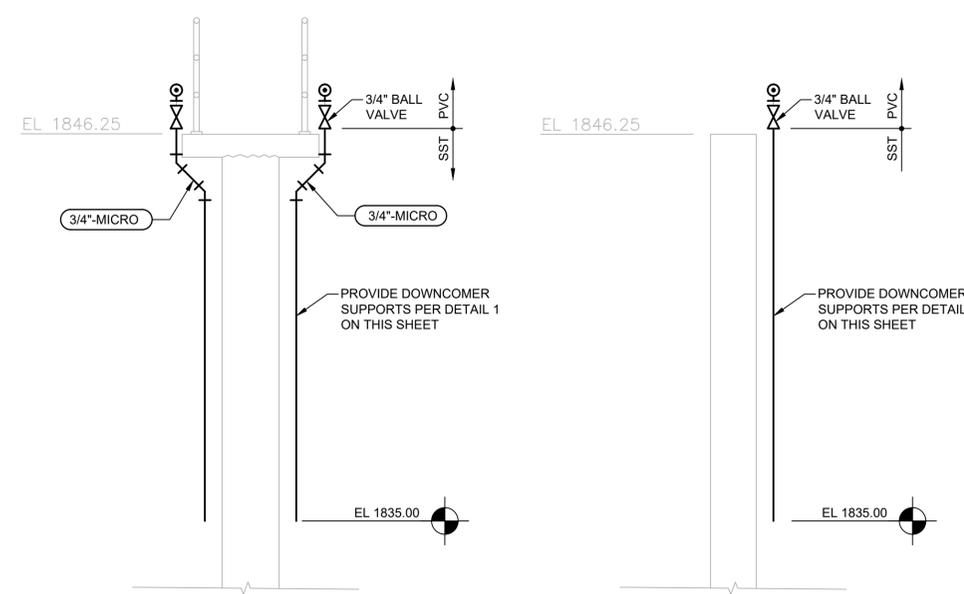
**CITY OF GRAND ISLAND**  
**WASTEWATER TREATMENT PLANT**  
**FLOW IMPROVEMENTS**

**AERATION BASIN**  
**LIQUID FLOW**  
**PROCESS AND INSTRUMENTATION**

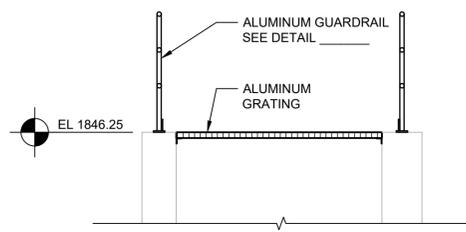
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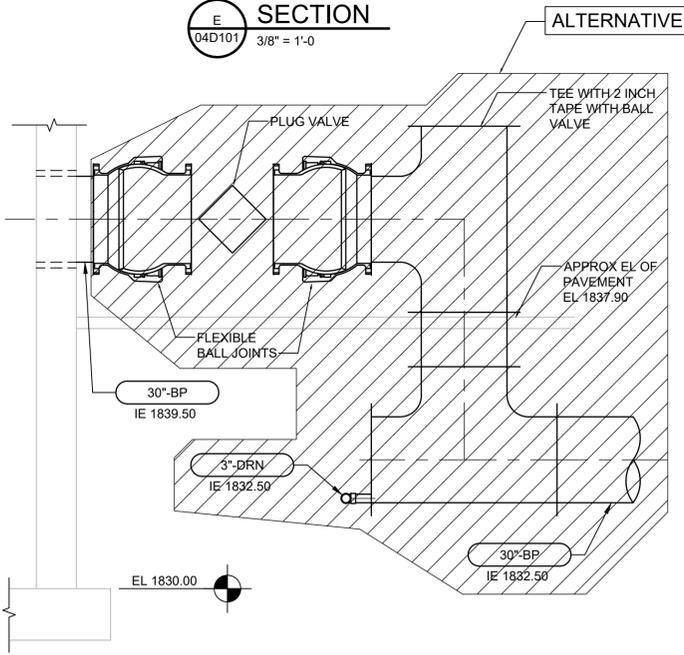
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1/2" = 1'-0"



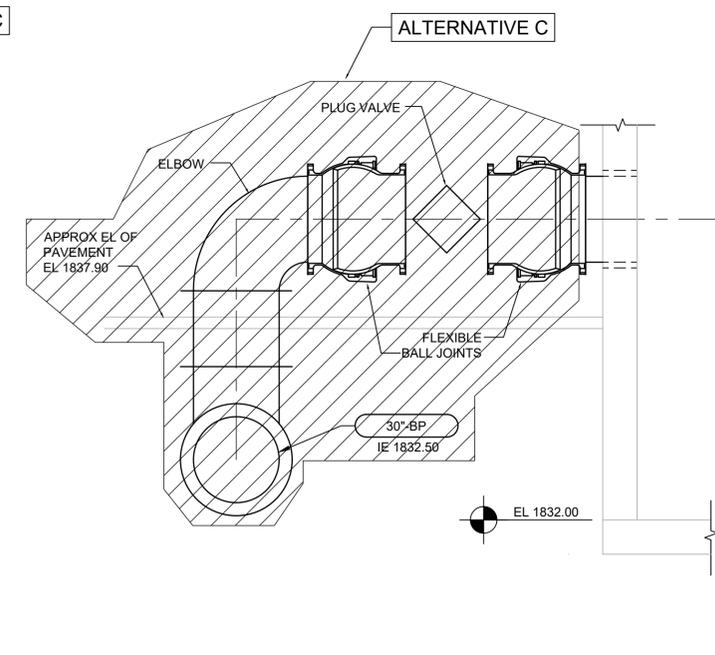
**2 MICRO-C FEED POINT DETAIL** 3/8" = 1'-0"  
**3 MICRO-C FEED POINT DETAIL** 3/8" = 1'-0"



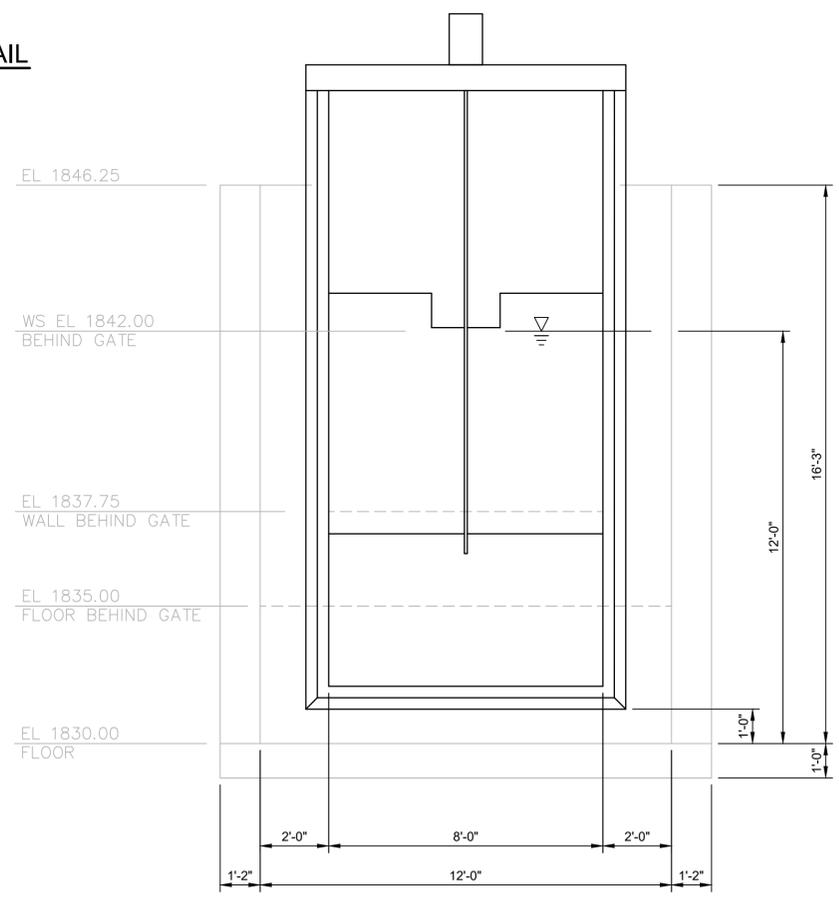
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04D101 3/8" = 1'-0"



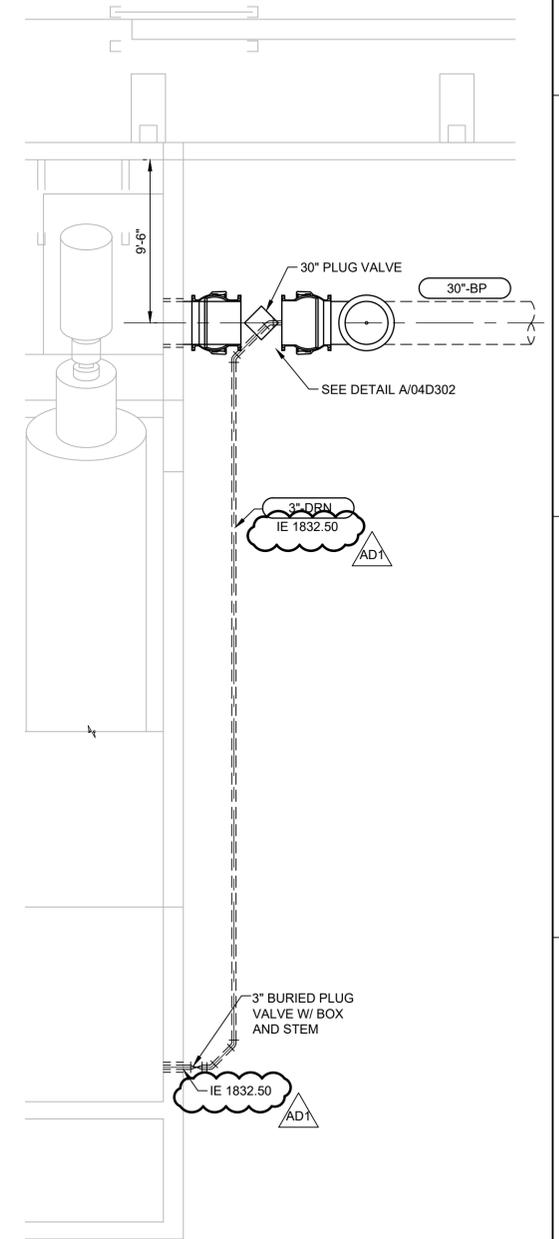
**A BYPASS PIPE DETAIL**  
04D102 3/8" = 1'-0"



**B BYPASS PIPE DETAIL**  
04D102 3/8" = 1'-0"



**1 SCUM GATE DETAIL**  
04D302 3/8" = 1'-0"



**5 ALTERNATIVE C BYPASS DRAIN DETAIL**  
04D102 3/16" = 1'-0"

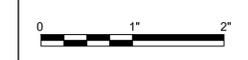


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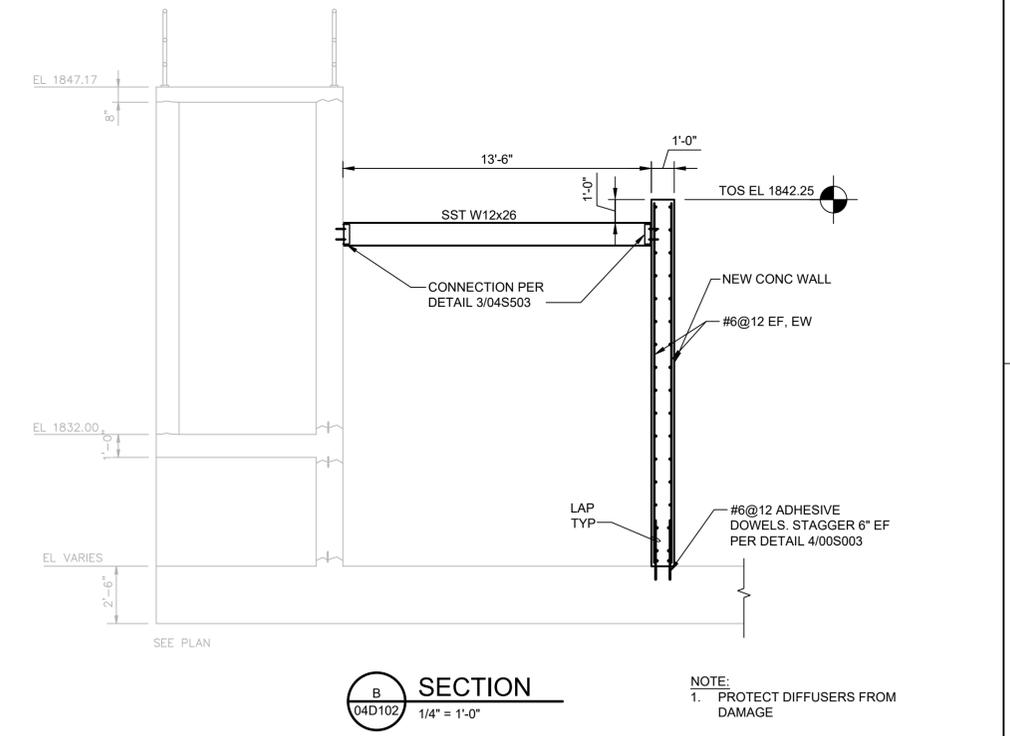
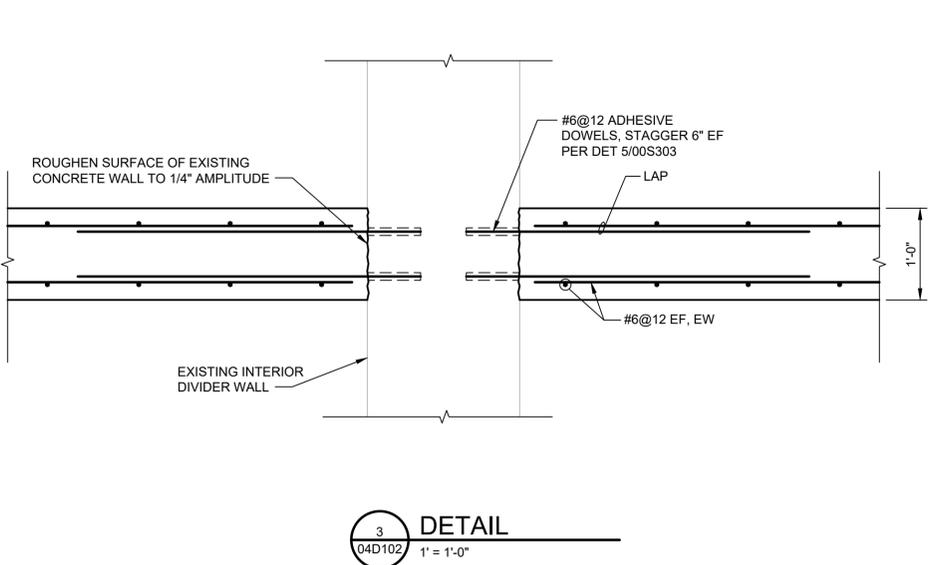
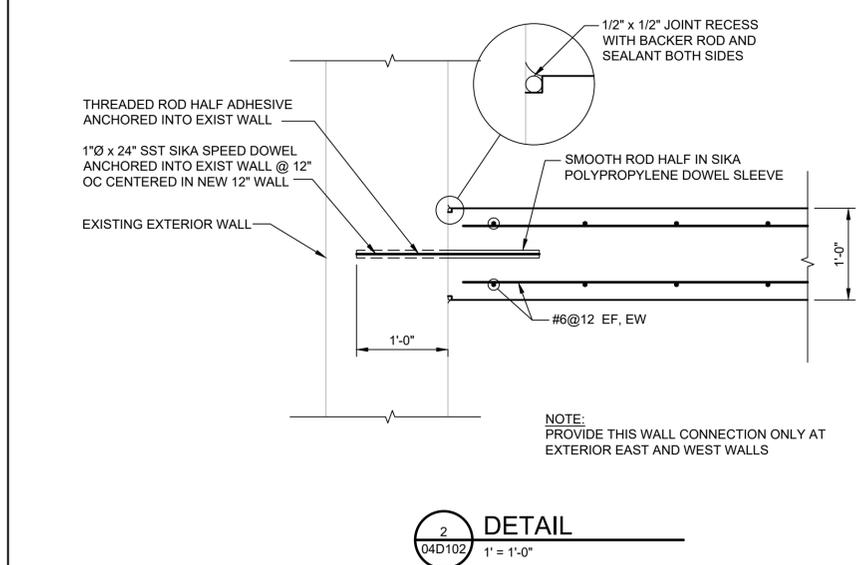
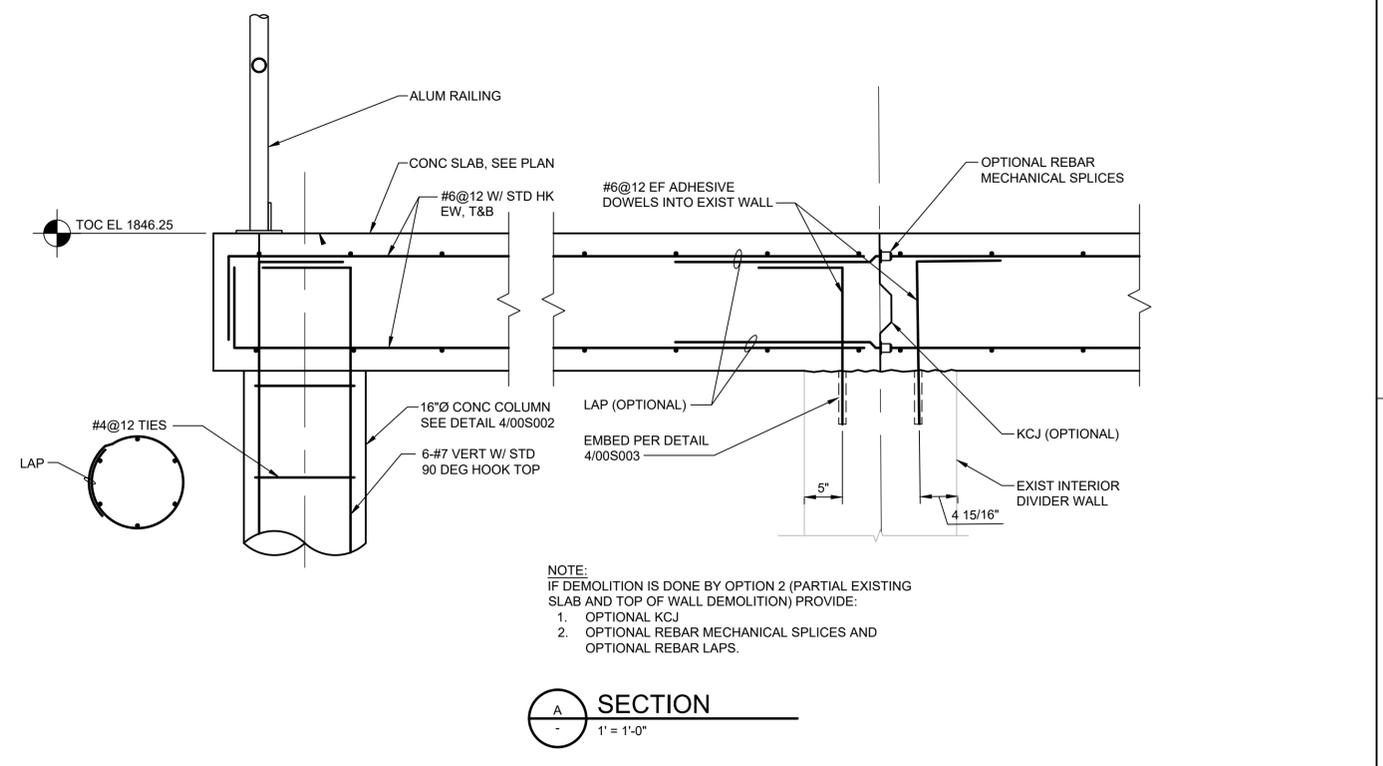
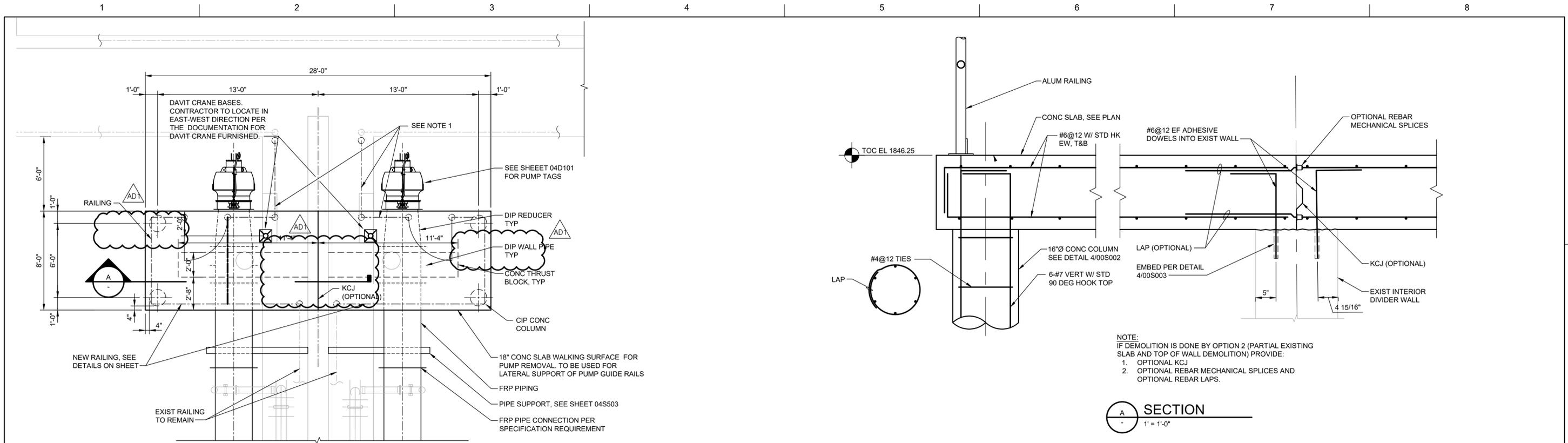


**AERATION BASIN - SECTIONS AND DETAILS**



FILENAME 04D302.dwg  
SCALE 1/8" = 1'-0"

SHEET  
**04D302**

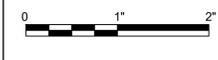


ISSUE	DATE	DESCRIPTION
AD1	2/21/2022	ADDENDUM 1
	01/11/2022	ISSUED FOR BID
	11/23/2021	ISSUED FOR 100% REVIEW
	10/18/2021	ISSUED FOR 90% CLIENT REVIEW
	6/30/2021	ISSUED FOR 50% CLIENT REVIEW

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453

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CITY OF GRAND ISLAND  
WASTEWATER TREATMENT PLANT  
FLOW IMPROVEMENTS



FILENAME | 04S501.DWG  
SCALE | AS NOTED

MIXED LIQUOR RETURN  
AERATION BASINS  
STRUCTURAL DETAILS

SHEET  
04S501