



Public Works Department

FOUNDED 1914

**Addendum #2 for the City of Corcoran
WWTP Clarifier Rehabilitation**

January 5, 2023

City of **CORCORAN**

Public Works Department

FOUNDED 1914

Addendum #2:

The following additions, deletions, or modifications shall become part of the Contract Documents for the City of Corcoran WWTP Clarifier Rehabilitation:

Contractor Questions:

Q1: Will the catwalk's aluminum grating and light pole near drive be replaced? Are the handrails aluminum?

A1: The catwalk's aluminum grating shall be replaced. The light poles are not included in this Project. Yes, the handrails are aluminum.

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Q2: Do you want to re-grout the floor of the clarifier?

A2: Yes. Aggregates for grout must comply with ASTM C476 and ASTM C404. Fine aggregate grout is to be used.

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Q3: Do you have a specific drive in mind for the clarifier?

A3: Not any particular drive has been chosen as the City's preference. However, the specifications for the drive require a minimum of 20,000 ft-lb torque rating gearbox, minimum 1-HP drive motor, installed inside of the building, Allen-Bradley PowerFlex VFD control panel with high and high-high torque alarms or City-approved equivalent is preferred.

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Q4: Which handrails and walkways are being replaced?

A4: All 1-1/4" aluminum grating walkways and 1-1/2" aluminum hand railings shall be replaced, including the catwalk.

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Q5: What is the extent of the electrical work?

A5: The Awarded Bidder shall be required to furnish, mount, wire, and install VFD, disconnect, manual on/off switch, torque display, and digital feedback to the plant's SCADA system. New cables shall be ran to the drive. Existing enclosure shall be used inside the building for the MCC. Local control of the drive – located on the catwalk of the clarifier - will require NEMA 3RX or 4X enclosure.

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Q6: Is there a valve under the scum box?

A6: No, there is not a valve.

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Q7: What is the schedule you are anticipating for this project?

A7: The Awarded Bidder shall provide the City with a construction schedule before work can begin. The clarifier is not to be decommissioned until all replacement parts have arrived and work can occur continuously, which the construction schedule shall reflect. Once all parts have arrived, the City will work with the Awarded Bidder on a date to begin work. Two days prior to that agreed-upon date, the City will drain and clean the clarifier to prepare it for the project.

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Q8: Will new wire need to be pulled and junction boxes replaced for the drive?

A8: Yes, new wire shall be pulled and new exterior junction boxes need to be installed.

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Q9: The specifications indicate that contractor shall complete work within 30 Calendar Days from the Notice to Proceed. Amongst the industry we are seeing unforeseen, and uncontrollable delayed delivery dates on many materials. Can you confirm that the owner will work with the general contractor on contract duration once the project is awarded and product lead times are solidified? If not, should contractors account for liquidated damages in their bids?

A9: The City is keenly aware of the lead times on materials and will work with the Awarded Bidder on an agreed-upon schedule. It is also important that the clarifier is not decommissioned for an unnecessary period of time with no work occurring.

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Q10: Per the Agreement, Item 4, the work is to be completed within 60 calendar days after the date the Notice to Proceed is issued. However, per the General Provisions, Section 3. Control Of The Work, 3-13 Completion, Acceptance and Warranty, item 3-13.1 Completion states the Contractor shall complete all

Work under the Contract within 360 Calendar Days from the Notice to Proceed. Please confirm the completion time requirements.

A₁₀: The work is to be completed within 60 calendar days after the Notice to Proceed is issued and all materials for the Project have arrived to the wastewater treatment facility.

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Q₁₁: Per the General Provisions, Section 3. Control Of The Work, 3-13 Completion, Acceptance and Warranty, 3-13.3 Warranty provides the start of the warranty period, but does not specify the duration of the warranty period. Please provide the warranty duration requirements.

A₁₁: All work is to be warrantied for two years following Project's completion.

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Q₁₂: There are two (2) EA light poles on the existing clarifier bridge. Please clarify how Contractor should handle existing lighting equipment, mounting, wiring, and conduit.

A₁₂: The light poles and lighting are not a part of this Project. If necessary to move, the Awarded Bidder must move the pole out of the clarifier and re-install following the installation of the new drive.

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Q₁₃: Bid Item 2 description, Item No. 3 references "1-1/4"aluminum grating all walking surfaces". Please clarify if the intent is that all aluminum grating be replaced. If so, please provide technical specifications and details required for new aluminum grating.

A₁₃: Yes, all aluminum grating is to be replaced. The grating must be 1" in height, grade 6061 or 6063, and shall withstand structural loading as determined by allowable design working stresses of materials for AA SAS-30.

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Q₁₄: Bid Item 2 description, Item No. 4 references "1-1/2" anodized schedule 40 aluminum handrailing w/ 4" toe kick". Please clarify if the intent is that all aluminum handrail and toe kick be replaced. If so, please provide technical specifications and details required for new handrail and toe kick.

A₁₄: Yes, the Project calls for all aluminum handrailing and toekick to be replaced. The handrailing shall withstand structural loading as allowed by AA SAS-30 for top railing and handrails not serving as top rails, allow for movements resulting from 120 degree F changes in ambient and 180 degree F surface temperatures, and incompatible materials must be separated to prevent galvanic corrosion.

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Q₁₅: Bid Item 2 description, Item No. 13 references "Drive Unit with sufficient torque and external coating w/ VFD". Please confirm that the Contractor is required to furnish and install a VFD for the unit drive. If so, please provide technical specifications and details clarifying where the VFD is to be installed, how it is to be connected to existing electrical, control features, acceptable manufacturers, and any SCADA coordination necessary.

A₁₅: A VFD is required for the clarifier drive. The VFD is required to be installed inside of the Operations Building with minimum disconnect, manual on/off switch, torque display, and digital feedback to the plant's SCADA system. Existing enclosure is to be used. The City's preference for the VFD is Allen Bradley PowerFlex 525.

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Q₁₆: The bid item descriptions call for "Contractor to verify the quantity" on several items. Please provide as-builts of existing equipment, structure, and mechanical piping clarifying the extent of work to be performed.

A₁₆: See Appendix A for PDFs of the existing as-builts.

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Q₁₇: The extent of existing wiring, conduit, and electrical to be removed and replaced is unclear. Please specify how much shall be removed, how the Contractor is to connect to existing, and requirements for new conduit, wiring, and electrical.

A₁₇: The existing contactors enclosure shall be utilized to house the VFD, and the existing conduit will be used for the new cable. New junction boxes are required.

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Q₁₈: Please provide technical specification for painting and coating associated with the additive bid item.

A₁₈: The walls and launders shall be sand-blasted to SSPC-SP6 standard. The City's preference for the coating is as follows: Tnemec Hi-Build epoxy to a dry film thickness of 4.0 – 6.0 mils, colored gray. For the final coat, an UV protected industrial grade polyurethane coating to a dry film thickness of 6.0mil minimum, colored gray.

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Q₁₉: Page C-3 of the agreement indicates that the Work shall be completed within 60 calendar days after the issuance of the Notice to Proceed, but Page GP-11 indicates that the Work shall be completed within 360 calendar days from the Notice to Proceed. Please confirm schedule requirements.

A₁₉: The Work shall be completed within 60 calendar days following the arrival of all parts and equipment needed to complete the Project.

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Q₂₀: Prior to installation of new equipment coating withing the clarifier, the structure and existing equipment will be need to be cleaned. Please confirm that it is acceptable to pressure wash and flush the contents to the existing sludge piping.

A₂₀: Yes, that is acceptable.

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Q₂₁: Please confirm the availability of construction water for this project.

A₂₁: There is a 4" water pipeline that feeds the wastewater treatment facility. There is also a 6" fire hydrant located directly across the street from the WWTF.

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Q₂₂: Is there any bypassing required to complete the Work?

A₂₂: No.

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Q₂₃: Bid Item 2 description, Item No. 14 references "1/4" thick fiberglass V-notch weirs". Please provide additional details clarifying dimensions, mounting, and quantity.

A₂₃: See Appendix A for as-builts which include V-notch weirs.

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Q₂₄: Please specify thickness of structural members on clarifier equipment.

A₂₄: See as-builts in Appendix A.

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Q₂₅: Please specify diameter and wall thickness of clarifier center column.

A₂₅: Diameter of the existing clarifier center column is 2' with 1/4" wall thickness. See as-builts in Appendix A and pictures in Appendix B.

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Q₂₆: Please specify the dimensions of the clarifier feed well.

A₂₅: The clarifier feed well is 6' in diameter and ½" wall thickness. It is 5' in height. Please see as-builts in Appendix A and pictures in Appendix B.

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Q₂₆: Please specify that rake arms are required to be triangular or box truss.

A₂₆: Rake arms can be triangular or box truss.

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Q₂₇: Please specify dimensions of new scum box.

A₂₇: Existing scum box is approximately 4' long x 3' wide x 2' in height. There is no specific dimensions provided for new scum box.

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Q₂₈: Please specify size and quantity of scum piping and if any valves are required.

A₂₈: Scum piping is 6", and includes 6" DI 90-degree elbow, flex coupling, and approximately 15' of pipe. The pipe is to be replaced up to the flex coupling which is located exterior of the clarifier. The elbow and piping shall be epoxy coated with similar paint as walls and floor.

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Q₂₉: Bid Item 2 description, Item No. 12 references "NEMA 4x Control Panel". Please provide technical specification for control panels and junction boxes including but not limited to material type, size, functions, etc.

A₂₉: The existing control panel enclosure that houses the clarifier drive contactors shall be used. Existing exterior junction boxes shall be replaced with NEMA 4X rated junction boxes.

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Q₃₀: Bid Item 2 description, Item No. 14 references "1/4" thick fiberglass V-notch weirs". Please clarify if baffles and supports requirement replacement. If so, please provide details and specifications.

A₃₀: The baffles and supports do not require replacement.

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Q31: The "References Form" provided on Sheet B-13 calls for Contractors to list "all public agency projects in excess of \$300,000 that you are currently working on or have worked on in the past two (2) years". The number of public works projects that we have or worked on in excess of \$300,000 is very long. Can the list of references be reduced to (3) EA projects?

A31: Yes, the list of references can be reduced to three like projects.

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Q32: Could you please email a copy of the mandatory pre-bid attendance list. Also, please email all available drawings of the existing equipment being replaced.

A32: See Appendix A for as-built drawings, Appendix B for images of the clarifier following draining and cleaning, and Appendix C for the pre-bid attendance list.

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Q33: Is a new MCC and VFD to be included in our bid? Does this mean installing in same location as the existing MCC and VFD? Does new motor get a new disconnect?

A33: Yes, new MCC and VFD shall be included in your bid. This shall mean installing in the same location as the existing MCC and VFD. The new motor requires a new disconnect.

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Q34: Is conduit that runs over the top of the clarifier for the motor and lights to be ran as stainless steel conduit?

A34: Schedule 40 PVC conduit is to be used.

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Q35: What are the specifications for re-sloping the bottom of the clarifier with grout?

A35: Re-grouting the bottom of the clarifier shall be necessary. 2" grout minimum with 1:12 slope is required, per Appendix A as-built drawings. Demolition of the floor is not necessary.

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Q36: How long will the clarifier be shut down for demo/installation?

A36: The clarifier shall be shut down as long as necessary for the Work to be completed. The clarifier will not be shut down at any time prior to receiving all required parts for the Project.

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Q₃₇: Will contractor be responsible for removing old clarifier and other materials off-site?

A₃₇: Old clarifier materials shall remain on-site.

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Q₃₈: For the two light posts that are being replaced, are the posts to be stainless steel?

A₃₈: The light posts shall not be replaced in this Project.

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Q₃₉: Can the beams for drive access platform be carbon steel painted with prime coat and (2) coats of Tnemec Series N69 epoxy @ 4-6mils DFT?

A₃₉: Yes, that is sufficient.

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Q₄₀: Please provide a clarifier equipment specification and coatings specification.

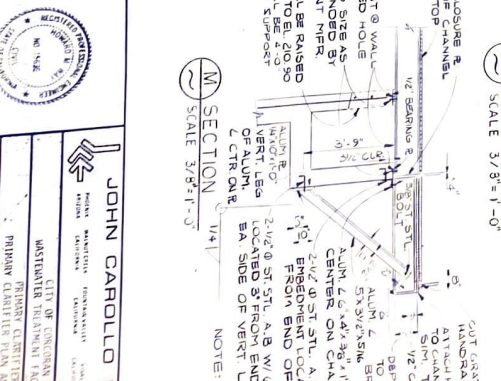
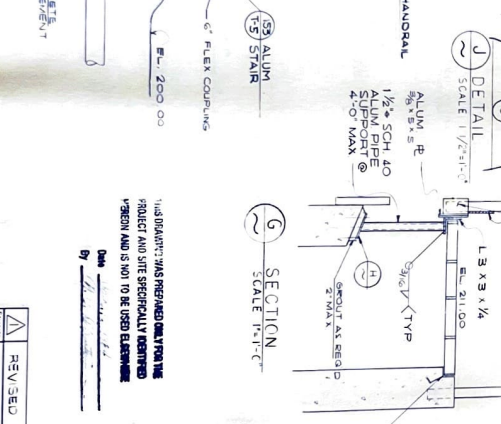
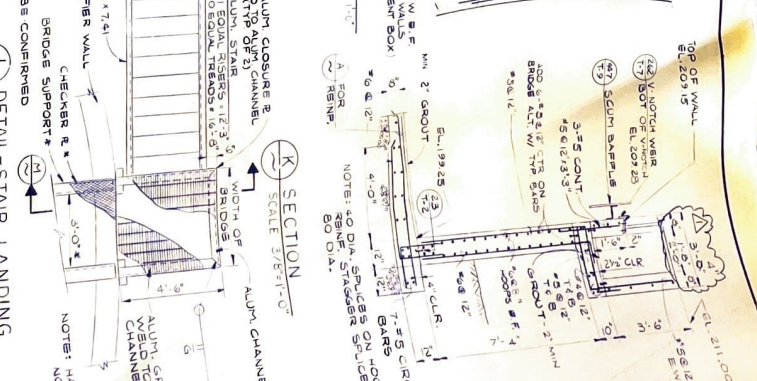
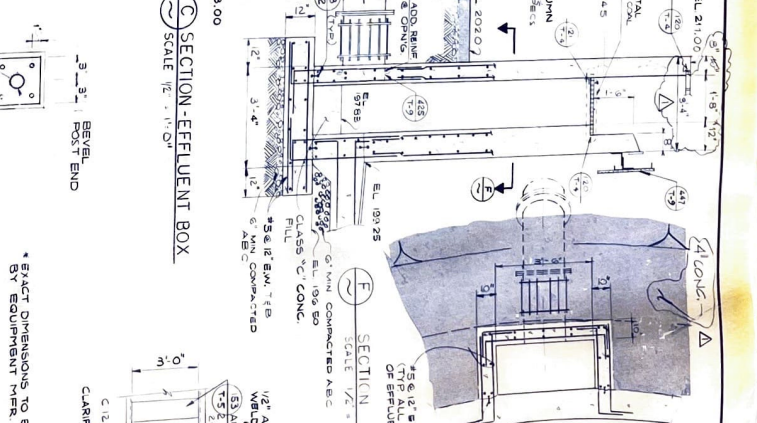
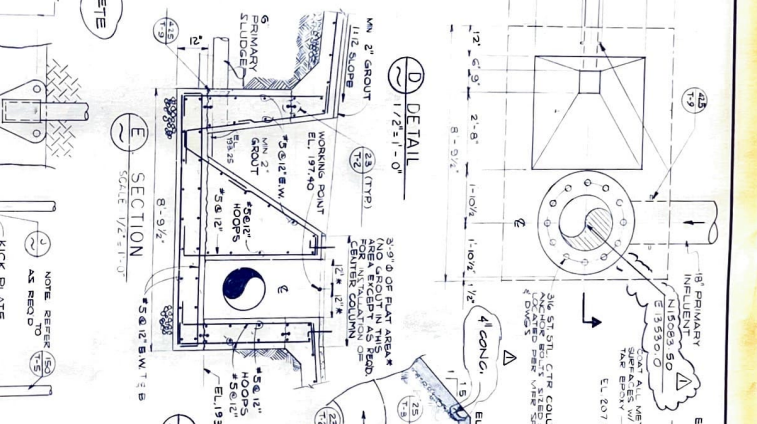
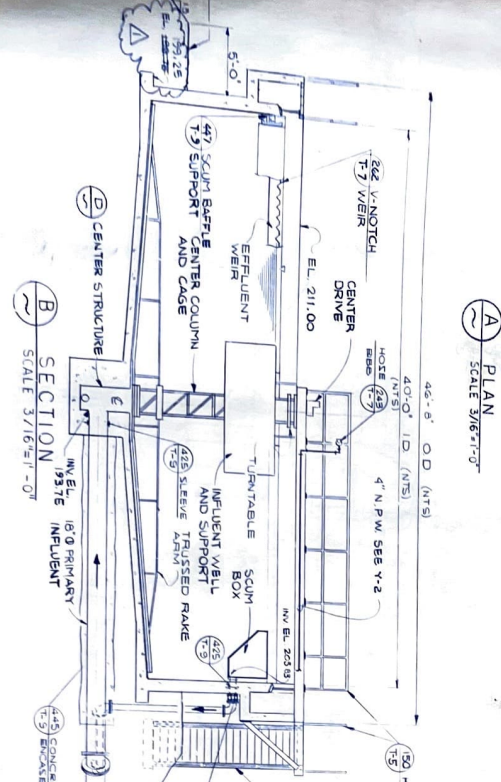
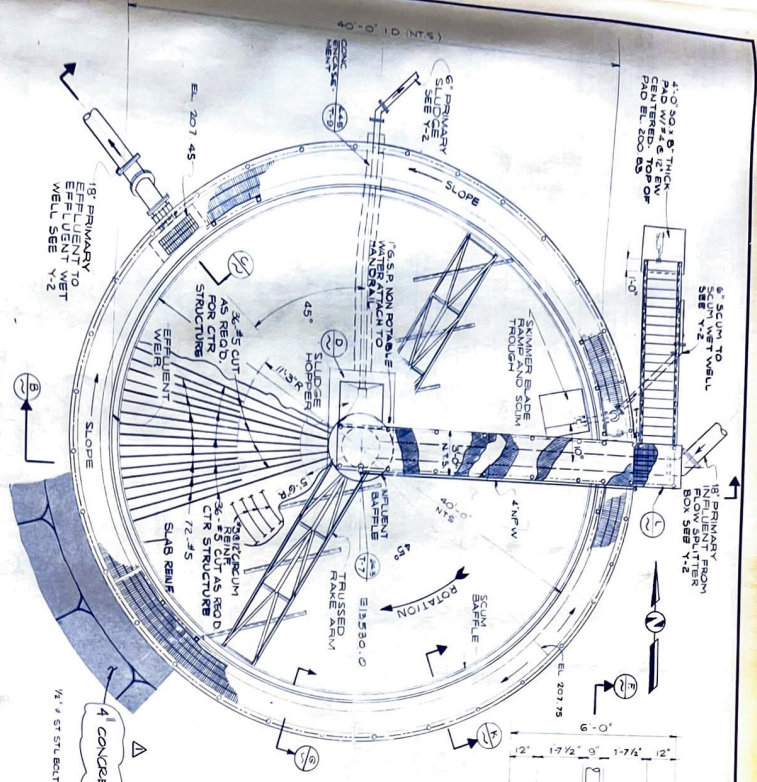
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Q₄₁: Please confirm no concrete restoration is to be included in the bid.

A₄₁: The floor of the clarifier is to be re-grouted. Aggregates for grout must comply with ASTM C476 and ASTM C404. Fine aggregate grout is to be used.

Appendix A. Drawings of Wastewater Treatment Plant and Structural Specifications.



REVISIONS	DATE	BY	CHKD	APP'D
1	11/16/84			



JOHN CAROLLO ENGINEERING

1000 N. LAKE STREET
CHICAGO, ILL. 60610

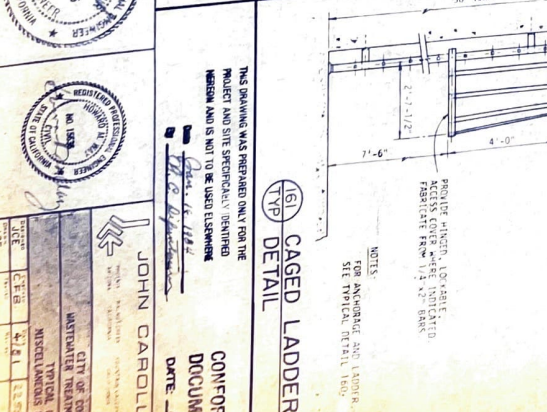
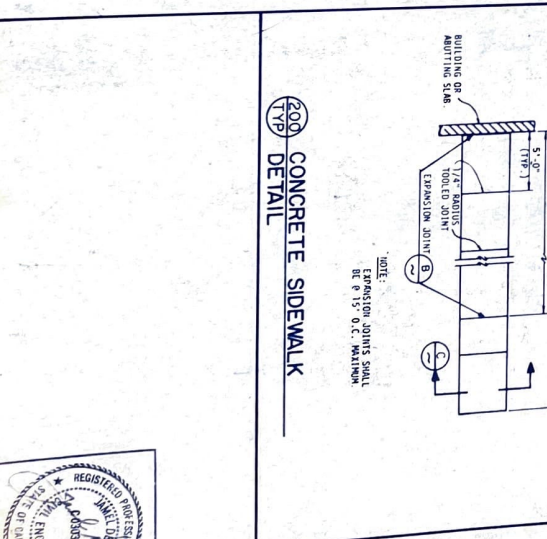
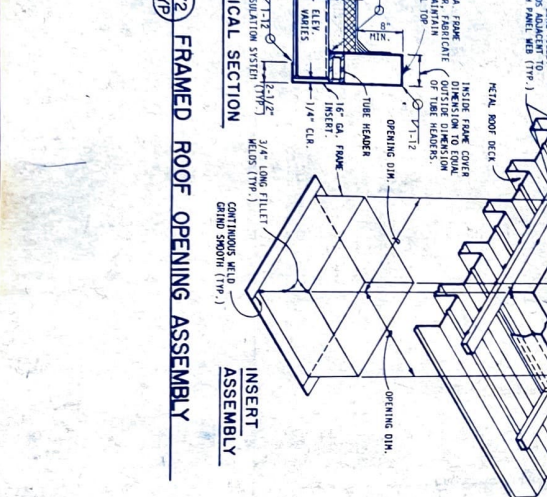
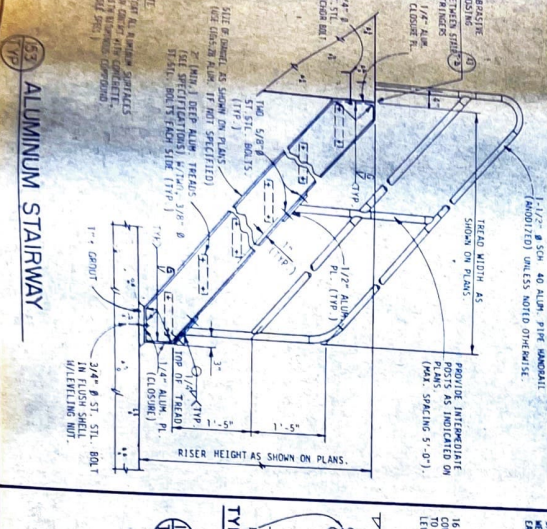
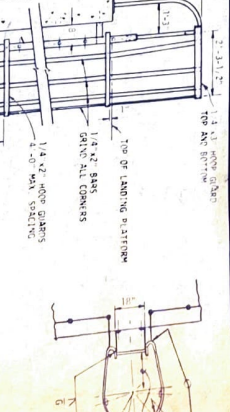
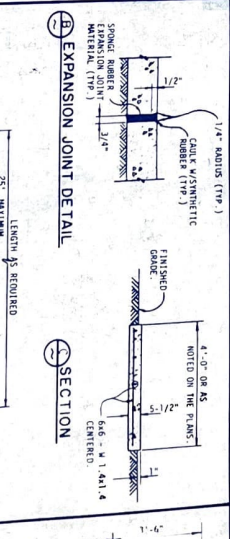
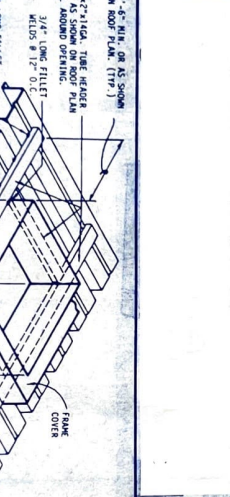
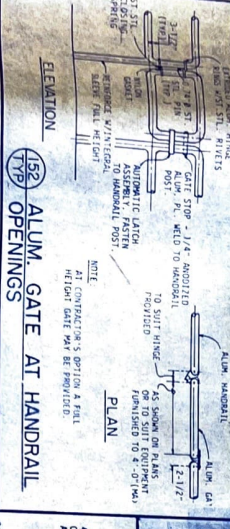
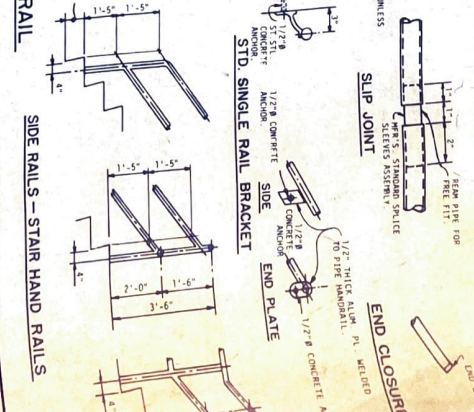
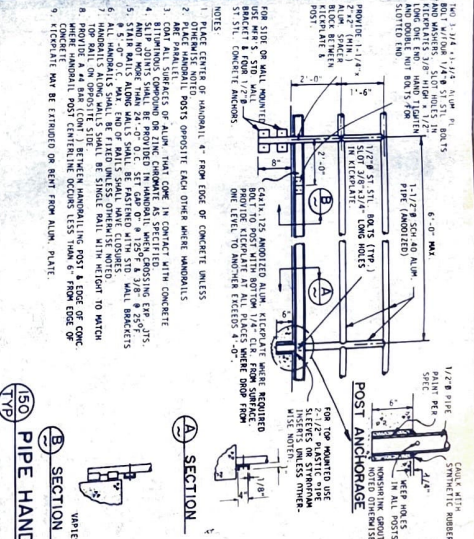
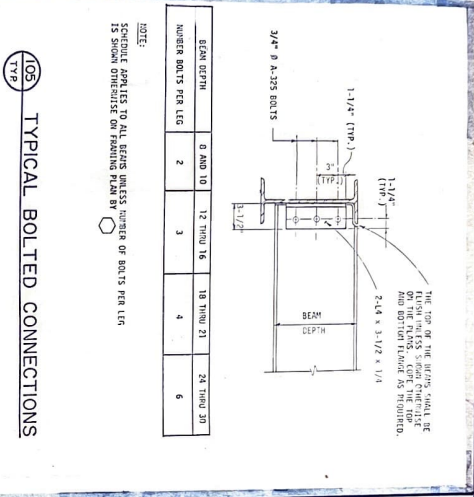
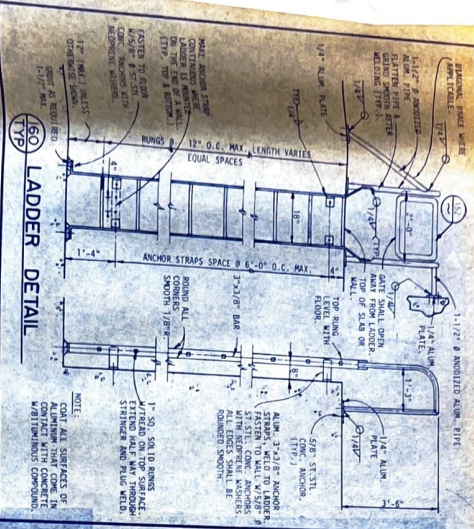
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SHEET: 1 OF 1

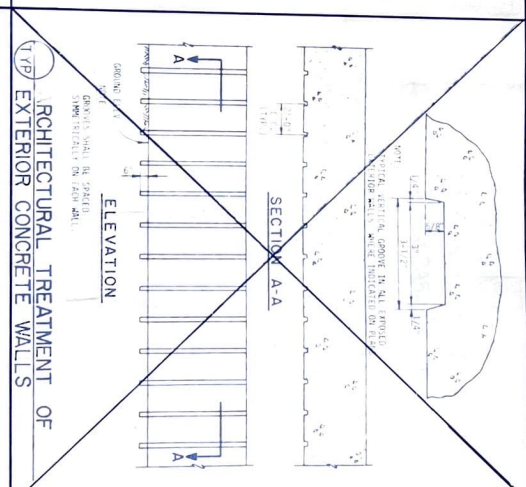
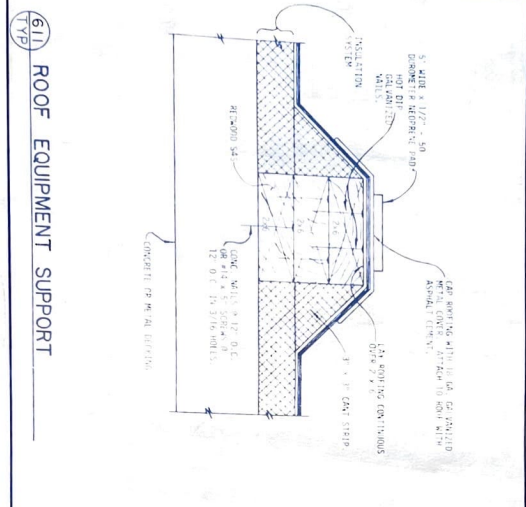
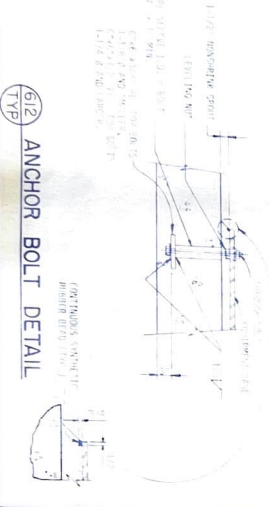
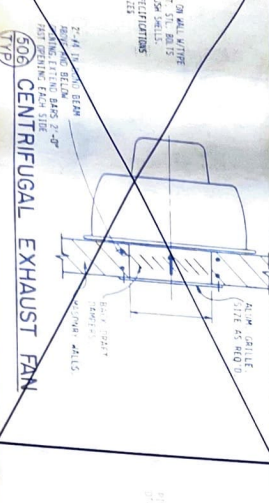
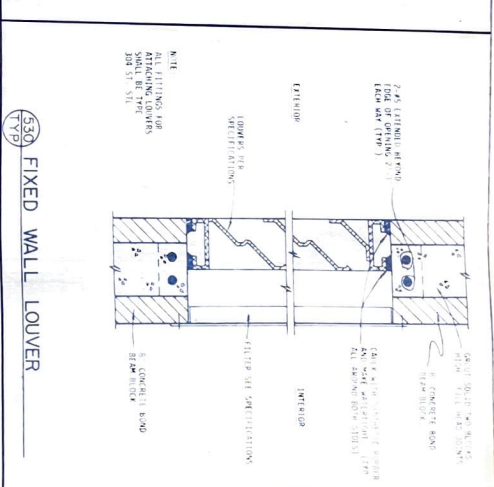
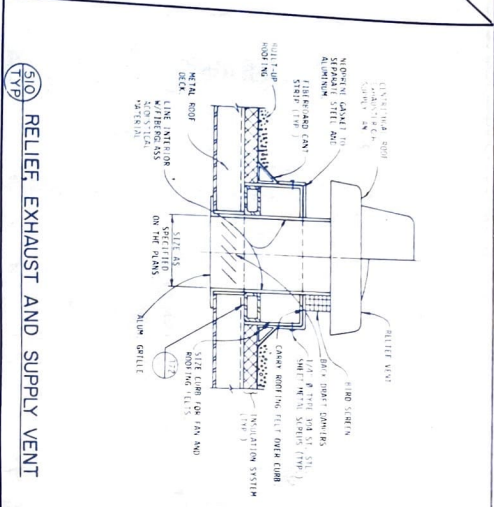
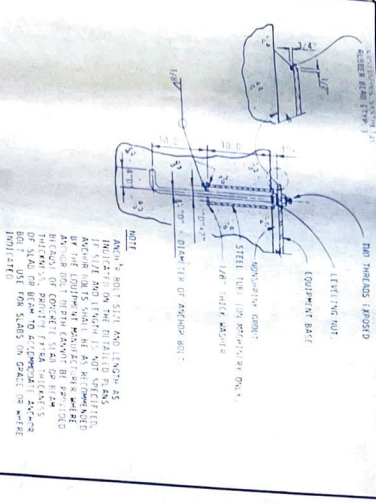
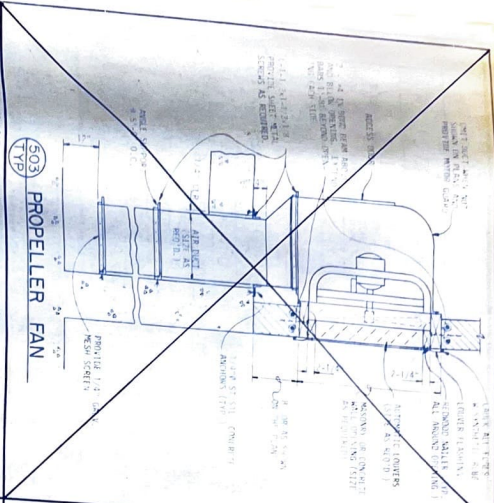
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DATE: 11/16/84

PC-





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DATE: 11/16/84

CONFORMS TO RECORD DOCUMENTS

QCE	Q = 3	4 1/2	22.5 cm
QCE			

CITY OF CORCORAN
WASTEWATER TREATMENT FACILITIES
TYPICAL DETAILS
MISCELLANEOUS DETAILS

T-11

Appendix B. Pictures of Clarifier Following Draining and Cleaning.



40' primary clarifier



Overview of interior



Influent well and support with center column and cage visible



Catwalk



Scum rake arm



Scum box



V-notch weirs with visible support and baffle



Scum box 6" ductile iron elbow and piping



End of trussed rake arm



Trussed rake arm



View of influent baffle



Local control of clarifier drive



Gear motor








1HP motor



Catwalk and local control of clarifier drive

Appendix C. Pre-Bid Mandatory Sign-In Sheet from 12/20/2022.

City of Corcoran WWTP Clarifier Rehabilitation Sign In Sheet (12/20/2022)

Print Name	Signature	Company	Time In	Time Out
1) Andrew McLaughlin		Polytech Industries	8:55 AM	9:25
2) Mike Anasos	Nick Gulev	ReBuild-IT	8:58	9:25
3) Grant Kerns		W.M. LYLES CO.	9:00 AM	
4) Edward Rubalcaba		AMERICAN	9:00 am	9:25 am
5) Brandon Minick		American inc	9:00 AM	9:30 AM
6) Kate Jones		GSE Construction	9:00 am	9:25 am
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				
15)				

NOTE: One copy of this Addendum #2 shall be signed by the Contractor and must be submitted with the bid as acknowledgement of receipt and the acceptance of this Addendum #2.

Signature: _____
(Contractor Signature)

(Date)