

ADDENDUM NO. 3

GRANGER-HUNTER IMPROVEMENT DISTRICT, UTAH ANDERSON WATER TREATMENT PLANT PROJECT

November 27, 2024

Addendum No. 3 to the Plans, Contract Documents, and Specifications prepared by J-U-B ENGINEERS, Inc. is hereby submitted for use in bid preparation and submittal. Contractor must acknowledge receipt of all Addenda on the Bid Form.

The following clarifications, additions, and/or deletions are hereby made part of the Granger-Hunter Improvement District Anderson Water Treatment Plant Project as fully and completely as if the same were entirely set forth in the Contract Documents and Specifications.

The corrections, clarifications, changes, and approvals described herein shall become an integral part of any contract entered into between the Owner and Contractor.

UTAH3P QUESTIONS AND RESPONSES

The questions and responses that have been posted on Utah3P thus far are attached.

VOLUME I FRONT ENDS

None.

VOLUME II TECHNICAL SPECIFICATIONS

1. Section 09910:
 - a. Revise specification section 09910 - 3.6 - D to remove Bar Joists from the architectural painting finishes.
 - b. Add section 09910 - 3.6 – F. Interior Masonry (Concrete Masonry Units) surfaces: Provide the following systems for all exposed interior concrete masonry units:
 - i. “Sure Klean Weather Seal Blok-Guard & Graffiti Control II” Manufactured by Prosoco or Architect’s approved equal. Install per manufacturer’s recommendations.
2. Section 09900:
 - a. Modify Table 1, System B-2 as follows: Includes, but not limited to, structural steel beams, columns, bracing, open web steel bar joists, and ancillary structural elements; excludes others specifically noted or specified elsewhere. SEE NOTES 1, 2, 3, *and 4* in System B-2.
 - b. Modify Table 1, System E-1 as follows: Epoxy coated floors, *stem wall*, interior walls and secondary containment (as called-out on the drawings). Provide sand-grit floors in secondary chemical containment areas and equipment/pump areas *and main process area*.



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- c. Add to System B-2 Note 4 (p.23): Structural Steel fabrications, like bar joists, are allowed to have a galvanized finish in lieu of coating.
3. Section 16131 – Conduits:
 - a. 1.4.C.1 Note 4 ~~“Conduit ductbank or beneath slab on grade shall be rigid HDPE conduit, continuous from device to device without pullboxes or conduit splices beneath grade due to high water table.”~~ Becomes “Conduit ductbank beneath slab on grade and within trenches shall be PVC Schedule 40 with glued water-tight conduit splices.”
 - b. 2.1.F.2 “Fittings shall be threaded or heat welded type of same material as conduit. No splices are allowed underground ~~due to high water table.”~~
 - c. 2.1.G.4 “Coated conduit shall conform to NEMA Standard No. RN1-1989. Shall be “Plastic-Bond Red” as manufactured by Robroy Industries, Inc. **or equal. Taped GRC is not acceptable.”**

VOLUME III DRAWINGS

1. Sheet A-102: Revise text for ‘W2’ tag to be ‘FOR ROOF STRUCTURE AND DECKING EXCLUDING METAL TRUSSES’.
2. Sheet A-104:
 - a. Add keyed note 04.02 ‘PROVIDE WATER REPELLANT ON ALL EXTERIOR CMU SURFACES PER PROJECT SPECIFICATION SECTION 07190 AND FOR ALL EXPOSED INTERIOR CMU SURFACES, FINISH PER PROJECT SPECIFICATION SECTION 09910.’
 - b. Add keyed note 10.06 ‘CUSTOM EXTERIOR BUILDING SIGN. SEE DETAIL 1/A-508.’
3. Sheet A-602:
 - a. For ‘F1’ on the Finish Schedule: Revise to Finish Type: Floor Finish, Material Description: Epoxy coating with Sand-Grit, Manufacturer: Tnemec, Style: Glaze Floor System w/ Urethane Top Coat, Color: TBD from manufacturers full line, Comments: Provide mockup prior to floor installation for owner approval of silica grit and distribution. See Specification 09900 and the E-1 Epoxy coated floors.
 - b. For ‘LA1’ on the Finish Schedule: Revise to Finish Type: Wall Finish, Material Description: Epoxy coating, Manufacturer: Tnemec, Style: Glaze System w/ Urethane Top Coat, Color: TBD from manufacturers full line, Comments: Finish to be applied to concrete stem wall around building interior to match floor epoxy with the exception of grit application. See Specification 09900 and the E-1 Epoxy coated floors.
 - c. For ‘W2’ on the Finish Schedule: Remove Comments “Paint adjacent CMU Walls”.
4. Sheet S-002: Add note 2 to “Steel Joists and Joist Girders:” All metal framing and components associated with the roof framing shall be hot-dipped galvanized carbon steel components after fabrication OR coated per specification 09900. This includes, but is not limited to bar joists, angle or channel sub-framing, bracing angles, bolts and anchor bolts, embed plates, and ledger angles. All holidays in, or field modifications to, the finish must be protected using a zinc-rich, cold applied, direct-to-metal primer coating.
5. Sheet E-003: Add fixtures F8 and F9 to the fixture schedule as follows:



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F8	24W 120-277V	LITHONIA	FEM L48 4000LM IMAFD MD MVOLT GZ10 40K 80CRI ANGBKT WLF STSL	HIGH PRESSURE HOSE DOWN LED LUMINAIRE NARROW DISTRIBUTION WET LOCATION FITTING, ANGLE BRACKET	4000K CCT 4000LM	1
F9	21W 120-277V	HE WILLIAMS	1SF 4 L24 8 40 DMA DIM UNV	UNDER CABINET LED, 4 FT, DIFFUSE MATTE ACRYLIC, 0-10V DIMMING.	4000K CCT 2400LM	1
NOTES:						
1- EQUAL FIXTURE SUBSTITUTIONS ALLOWED UPON PRIOR APPROVAL FROM ENGINEER.						

6. Sheet E-104: change wording “WIRING BETWEEN SOLAR PANELS AND SOLAR INVERTER BY SOLAR INSTALLER” to “WIRING BETWEEN SOLAR PANELS AND SOLAR INVERTER BY SOLAR INSTALLER UNDER GENERAL CONTRACTOR”.
7. Sheet E-111: Change wording of note “5x16 SOLAR PANEL ARRAY, 80 PANELS AT 21.2 KG EACH. 1696 KG TOTAL WEIGHT, 3739 LBS. THE STANDING SEAM ROOF INSTALLATION SHALL BE EXECUTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. ENSURE THAT ALL NECESSARY ATTACHMENTS AND FASTENING SYSTEMS REQUIRED FOR THE PROPER INSTALLATION AND PERFORMANCE OF THE ROOF ARE UTILIZED. SOLAR WIRING AND CONTROLS ~~PROVIDED BY OTHERS COORDINATION WITH THE SOLAR CONTRACTOR WILL BE REQUIRED ONCE THE CONTRACTOR IS SELECTED FOR THE PROJECT. BY GENERAL CONTRACTOR AND APPLICABLE SUBCONTRACTOR(S).~~ ENSURE THAT ALL NECESSARY PROVISIONS AND INTERFACES FOR THE SOLAR SYSTEM ARE ADDRESSED IN CONJUNCTION WITH THE SELECTED SOLAR ~~CONTRACTOR'S~~ REQUIREMENTS.
8. Sheet E-503: detail 2 and detail 3 change to “BEDDING SAND ~~OR RED CONCRETE AS INDICATED~~”.
9. ~~Sheet E-112: Add sheet E-112 Conduit Classification Plan.~~ It will show the NEMA areas as seen in attached redlined E-104.

VOLUME IV FILTER PROCUREMENT

None.



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Notice is hereby given that this Addendum must be signed and enclosed with a sealed bid for the Granger-Hunter Improvement District Anderson Water Treatment Plant Project as evidence that the Bidder has familiarized himself/herself with all changes incorporated herein.

NAME OF BIDDER: _____

BY: _____

Signature

Date

Name (Print)

Title

Submitted By:
J-U-B Engineers, Inc.

Christina Osborn, P.E.
Project Manager

Attachments:
SciQuest/Utah 3P Questions and Responses
Sheet E-104 with markups



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UTAH3P QUESTIONS AND RESPONSES

Questions are in black and the responses are in red.

1. System B-2, Interior Structural Components (unless specified elsewhere). The concern I have about this system is that System 3.5 D of Section 09910 for Galvanized Metal Decking (which includes joists) has a completely different surface prep and paint system than System B-2. Since System 3.5 D is specified elsewhere, I believe it would take precedence over System B-2. System 3.5 D is the system we used at Rushton utilizing Tnemec’s Series 115. Another concern that Tnemec’s local representative, Michelle Call has expressed is that using the surface preparation described for System B-2 (SSPC-6) would remove the factory dipped priming. The blasting would remove the priming from all the inaccessible areas due to the design of the joists. Due to being inaccessible priming those areas would be extremely difficult and expensive. Due to the size of the joists and local restrictions on open air blasting, it would be extremely difficult to field blast the joists and the expense to the owner would be enormous. I would recommend that a new line be added to the finish schedule indicating that the exposed joists be coated per System 3.5 D of Section 09910. This would standardize the exposed joists and deck coating system with Rushton.

Specification 09900 notes the following regarding what 09910 covers and what is covered by 09900:

3.9 COATING SYSTEMS

A. **Architectural Finishes Including:** (see Section 09910 Architectural Paints and Coatings):

1. Gypsum Wall Board
2. Siding and Trim (interior and exterior)
3. Concrete Masonry Units - CMU (interior and exterior)
4. Exterior and Interior Metal Doors, Frames and Vision Lite Frames
5. Exterior Overhead Entry Canopies and Sun Shades

B. **General:** Surface preparation, prime coatings and finish coatings for the various surfaces and items to be painted are specified below. Prime coatings shall be contrasting but complimentary to finish coat.

Table 1: Coating System Application Area Descriptions, includes general descriptions of a systems and a corresponding letter (for example: "A") to be the designator throughout the rest of the document. Table 2: Applicable Manufacturer Products, includes approved manufacturers and materials for each system. The following pages each correspond to a single system (for example: "A") and include some details that are necessary for installation. There is also a section labelled Notes at the bottom of each page. These notes can include requirements and reviews of how the systems have performed.

See the changes noted above for specifications 09910, which removes Bar Joists from the architectural painting finishes, and 09900, which allows Structural Steel fabrications, like bar joists, to have a galvanized finish in lieu of coating. Also, Sheet A-102 is revised as follows: text for 'W2' tag to be 'FOR ROOF STRUCTURE AND DECKING EXCLUDING METAL TRUSSES'. In summary, use System B-2 or a galvanized finish from 09900 for bar joists.



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2. Finish schedule, Floor Finish F-1, Florock. Again this is in conflict with Section 09900, system H-1, Tneme-Glaze Floor System. We used the Tneme-Glaze Floor System with Urethane Top Coat on Rushton. I would recommend that the finish schedule on Pages A-104 and A-602 change Floor System F-1 to H-1 (Section 09900) and add the Urethane top coat and anti-slip aggregate. This would keep the floor system the same as Rushton which would standardize the floor coating between the two plants.

Again, see Section 3.9 from Specification 09900. On Sheet A-602, the 'F1' on the Finish Schedule has been revised as follows: Finish Type: Floor Finish, Material Description: Epoxy coating with Sand-Grit, Manufacturer: Tnemec, Style: Glaze Floor System w/ Urethane Top Coat, Color: TBD from manufacturers full line, Comments: Provide mockup prior to floor installation for owner approval of silica grit and distribution. See Specification 09900 and the E-1 Epoxy coated floors.

3. Finish schedule, concrete stem wall around building interior. The Floor Finish schedule on Pages A-104 and A-602 shows finish LA1 which is a clear finish. I would recommend the stem wall be coated with the floor coating H-1. It is more attractive to have the stem wall match the floor coating.

Specification 09900, Table 1, System E-1 has been revised as follows: Epoxy coated floors, stem wall, interior walls and secondary containment (as called-out on the drawings). Provide sand-grit floors in secondary chemical containment areas and equipment/pump areas and main process area.

On Sheet A-602 revise 'LA1' on the Finish Schedule as follows: Finish Type: Wall Finish, Material Description: Epoxy coating, Manufacturer: Tnemec, Style: Glaze System w/ Urethane Top Coat, Color: TBD from manufacturers full line, Comments: Finish to be applied to concrete stem wall around building interior to match floor epoxy with the exception of grit application. See Specification 09900 and the E-1 Epoxy coated floors.

4. Interior CMU coating in the treatment room. It is unclear if the CMU walls within the treatment room gets any coating. Page A-104 does not include any wall finishes. It would be helpful if the Engineer would verify that treatment room A103 does not receive any coatings. If it does require a coating, then a system should be added to Section 09 91 00 specifying a heavy-duty block filler and acrylic pre catalyzed epoxy intermediate and finish coat. The interior CMU walls at Rushton were not coated. As a minimum I would recommend a clear sealer.

Sheet A-104 is revised as follows: Add keyed note 04.02 'PROVIDE WATER REPELLANT ON ALL EXTERIOR CMU SURFACES PER PROJECT SPECIFICATION SECTION 07190 AND FOR ALL EXPOSED INTERIOR CMU SURFACES, FINISH PER PROJECT SPECIFICATION SECTION 09910.'

5. The Area Classification table in the specs (16131) lists two different types of conduits for exposed installations in NEMA 4X Indoor Corrosive, and NEMA 12 without an explanation of where the two different types need to be used. Please provide clarification of the delineation between the two for each area. For example, why does PGRS need to be installed in a NEMA 12 area?

Either of the two conduit types listed can be used in the area (e.g., GRS or PGRS can be used in NEMA 12 areas).



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- 6. The specifications for conduit contain an area classification table and explanation of each classification (16131), which is helpful, but the drawings do not explain if the entire treatment room is considered one classification, or divided up. Confusing matters is the one-line (E-601) shows the hoist disconnect as NEMA 3R, which is not included in the specs. Is the area around the hypochlorite tank and pump system considered corrosive and wash-down? Is the area surrounding the filters considered NEMA 12, or NEMA 3R? Is the entire room considered NEMA 4X? Please clarify how the treatment room is to be classified.

See the attached Area Classification Sketch on E-104. This is now sheet E-112.

- 7. Are there any specifics for the light fixture shown as "Provide Under-Cabinet Lighting" on E-107, or is that up to contractor discretion?

See fixture schedule below, use fixture type F9.

F8	24W 120-277V	LITHONIA	FEM L48 4000LM IMAFD MD MVOLT GZ10 40K 80CRI ANGBKT WLF STSL	HIGH PRESSURE HOSE DOWN LED LUMINAIRE NARROW DISTRIBUTION WET LOCATION FITTING, ANGLE BRACKET	4000K CCT 4000LM	1
F9	21W 120-277V	HE WILLIAMS	1SF 4 L24 8 40 DMA DIM UNV	UNDER CABINET LED, 4 FT, DIFFUSE MATTE ACRYLIC, 0-10V DIMMING.	4000K CCT 2400LM	1
NOTES:						
1- EQUAL FIXTURE SUBSTITUTIONS ALLOWED UPON PRIOR APPROVAL FROM ENGINEER.						

- 8. Are there any specifics for the light fixture shown as "Light Fixture in Valve Vault" on E-107, or is that up to contractor discretion?

See fixture schedule below, use fixture type F8.

F8	24W 120-277V	LITHONIA	FEM L48 4000LM IMAFD MD MVOLT GZ10 40K 80CRI ANGBKT WLF STSL	HIGH PRESSURE HOSE DOWN LED LUMINAIRE NARROW DISTRIBUTION WET LOCATION FITTING, ANGLE BRACKET	4000K CCT 4000LM	1
F9	21W 120-277V	HE WILLIAMS	1SF 4 L24 8 40 DMA DIM UNV	UNDER CABINET LED, 4 FT, DIFFUSE MATTE ACRYLIC, 0-10V DIMMING.	4000K CCT 2400LM	1
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- 9. There is a security drawing in the bid drawings (E-109) but there are no specification for security. Does the owner have a security contractor supplier they currently use? If so, will the supply and installation of the security devices be by the contractor in a separate contract or will they need to be included in the scope of this contract?

The specifications for security are all included in the drawings. There is not a specification document in addition to the drawings. This scope is part of the contract with the general contractor. There is no separate security contractor.



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10. Drawing E-111 states that solar wiring and controls are provided by others and coordination with the solar contractor will be required. There are solar specs included in the bid documents however. Please confirm that the solar equipment will be provided and installed by a solar contractor under a separate contract.

Drawing E-104 shows a call out "WIRING BETWEEN SOLAR PANELS AND SOLAR INVERTER BY SOLAR INSTALLER." Sheet E-111 uses the term "BY OTHERS" suggests a division of the work between the electrical contractor and a solar contractor both under the responsibility of the general contractor. E-601 note 8 states "SOLAR INSTALLER TO COMPLETE AND SUBMIT RMP CUSTOMER GENERATION APPLICATION." Again, this is just suggesting a division of labor but everything related to solar is still part of the contract with the general contractor. The solar installer is still under the general contractor and is included in the contract. The solar installer is permitted to be the electrical contractor or a sub to either the general contractor or the electrical contractor, but the general contractor is ultimately responsible for the full solar installation.

11. Note 4 of the Area Classification table in 16131 1.4 C of the specs states that underground conduit shall be continuous HDPE due to the high water table, but 2.1 F 4 states that HDPE is not approved for above grade installation or elbows and risers above 22.5 degree bend. What is to be used go from above ground to below ground without any splices or interruption in the HDPE? Underground conduit is permitted to be PVC schedule 40 as long as any splices are glued and water-tight. Transition through concrete is to be PVC-coated rigid conduit 90s.

12. Are underground conduit runs to be concrete encased duct banks or direct buried? Trenched conduit is to be buried in bedding sand. For details 2 and 3 on E-503, choose bedding sand not concrete.

13. If underground conduit runs are to be concrete encased, can HDPE still be used, since HDPE is to be used for underground conduit according to the specs? The specs state that HDPE cannot be used for embedding in concrete slabs. Is it acceptable for duct bank concrete encasement? Trenched conduit is to be buried in bedding sand. For details 2 and 3 on E-503, choose bedding sand not concrete. Underground conduit is permitted to be PVC schedule 40 as long as any splices are glued and water-tight. Transition through concrete is to be PVC-coated rigid conduit 90s.

14. Sheet 107, please provide fixture type and manufacturer information for undercabinet lighting. If lighting is provided with cabinetry, please designate it as such and that we are a single-point connection.

See fixture schedule below, use fixture type F9.

F8	24W 120-277V	LITHONIA	FEM L48 4000LM IMAFD MD MVOLT GZ10 40K 80CRI ANGBKT WLF STSL	HIGH PRESSURE HOSE DOWN LED LUMINAIRE NARROW DISTRIBUTION WET LOCATION FITTING, ANGLE BRACKET	4000K CCT 4000LM	1
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NOTES:						
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15. Please clarify the EC is only responsible for providing raceway for all Access Control, including security gate equipment, and that we are to provide only a single point of connection to power for this equipment.

The general contractor is responsible for all equipment, wiring, and conduit and a fully functional Access Control System on the doors and gate.

16. During our site visit, it was noticed that the conduits penetrating the concrete were not PVC coated, and we only wrapped. On sheet E-502 note 1&7 specifically calls for PVC coated 90s, couplings and nipples. Will this project accept taped 90s and nipples?

The previous job had extenuating circumstances given the date of construction coinciding with more significant supply issues. This job will only accept PVC coated 90s.

17. Who will be responsible for hosting and transporting the existing generator, service disconnect, and ATS from their current location to their new location?

The contractor is responsible for the removal and transport and safe keeping of all the equipment from the old location to the new location.

18. Will RMP be hoisting and removing their existing transformer?

Plan on the contractor performing the work of hoisting and replacing the existing transformer. However, it is anticipated that it is likely that RMP will bring their own equipment and perform the labor of the relocation. It is difficult to promise as things can change with RMP up until the time of the relocation.

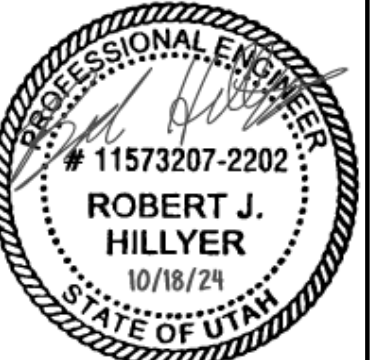
19. Please provide the location for the existing Axis box in the existing building.

Sheet E-102 shows the location of the box on the top right corner of the existing building.

Subconsultant:

377 West 800 North
 Salt Lake City, Utah 84103
 801.322.0487
 www.heatheng.com

BID



SET

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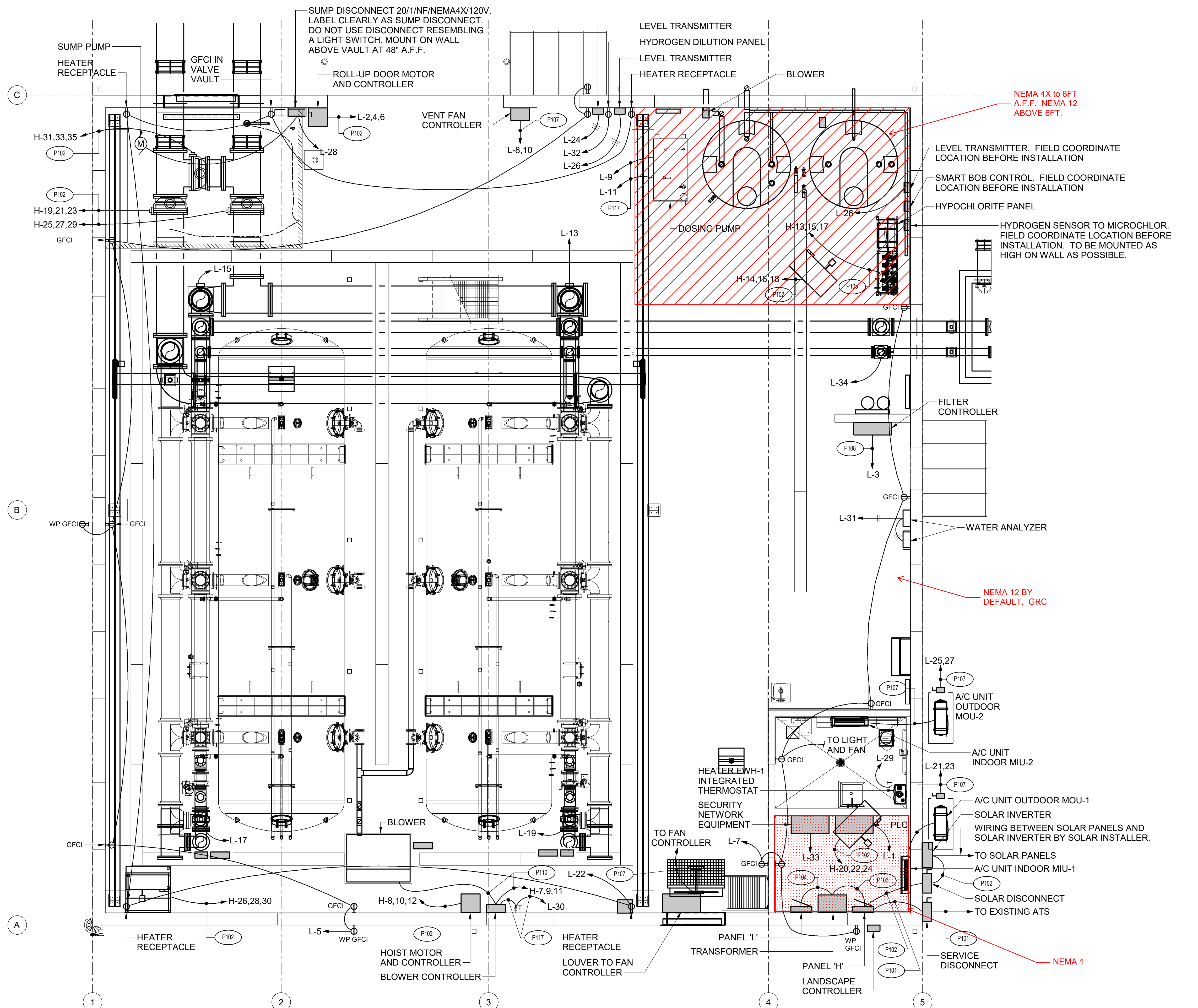
NO.	REVISION	DESCRIPTION	BY	DATE

**ANDERSON WATER TREATMENT PLANT
 GRANGER-HUNTER IMPROVEMENT DISTRICT**

**ELECTRICAL (E)
 LEVEL 1 POWER PLAN
 1629 WEST 2320 SOUTH**

FILE:
 JUB PROJ. #93-23-004
 DRAWN BY: Author
 DESIGN BY: Designer
 CHECKED BY: Checker

ONE INCH
 AT FULL SIZE, IF NOT ONE
 INCH, SCALE ACCORDINGLY
 LAST UPDATED: 9/4/2024
 DRAWING:



1 LEVEL 1 POWER PLAN
 SCALE: 1/4" = 1'-0"

Autodesk Docs://GHID Anderson WTP/93-23-004_E.rvt