CENTRAL ARKANSAS WATER
JACK H WILSON WATER TREATMENT PLANT
WILSON RENEWAL AND RESLIENCY PROJECT
ADDENDUM NO. 3
JANUARY 16, 2025

This Addendum forms part of the Contract Documents and modifies the Specifications and Drawings as noted below. Acknowledge receipt of the Addendum in the space provided on the Bid Proposal. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification.

This Addendum consists of 21 pages, including attachments.

A. SPECIFICATIONS

1. Section 08 71 00 – FINISH HARDWARE
    a. Paragraph 2.2 A &.B, Include as (hinge – butt, continuous)

       Acceptable Manufacturers: Best Hinges by Dormakaba
    b. Paragraph 2.2 F, Include as (exit device) Acceptable Manufacturers:

       Precision Hardware – Apex 2000 Series by Dormakaba
    c. Paragraph 2.2 G, Include as (door closer) Acceptable Manufacturers:

       Best Door Closers – EHD 9000 Series by Dormakaba
    d. Paragraph 2.2 I & N, Include as (door stops/holders, kick plates)

       Acceptable Manufacturers: Trimco
2. Section 09 67 23 – EPOXY FLOOR SYSTEM
    a. Add referenced section in its entirety as attached to this Addendum.
3. Section 33 11 13 – STEEL WATER PIPE AND FITTINGS
    a. Paragraph 1.01 B & C, the steel water pipe and fittings shall be

       provided with a polyurethane interior and exterior lining.

B. DRAWINGS

1. Drawing E6004 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – ENLARGED CONTAINMENT AREA NORTH – POWER PLAN
    a. Replace Drawing E6004 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – ENLARGED CONTAINMENT AREA NORTH – POWER PLAN in its entirety with the one attached to this Addendum.
2. Drawing E6008 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – PANEL SCHEDULES
    a. Replace Drawing E6008 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – PANEL SCHEDULES in its entirety with the one attached to this Addendum.
3. Drawing E6010 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONTROL BLOCK DIAGRAM
    a. Replace Drawing E6010 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONTROL BLOCK DIAGRAM in its entirety with the one attached to this Addendum.
4. Drawing E6012 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONDUIT AND WIRE SCHEDULE
    a. Replace Drawing E6012 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONDUIT AND WIRE SCHEDULE in its entirety with the one attached to this Addendum.
5. Drawing I3001 INSTRUMENTATION TYPICAL FILTER P&ID
    a. Modify “LCS-3001” to “**LCP**-3001” to match Electrical drawings

6. Drawing M3021 FILTER BUILDING MECHANICAL ENLARGED BOTTOM PLAN – FILTERS AND GALLERY
    a. Modify “20” MAGNETIC FLOW METER, TYP” callout as such: “~~20~~ **24**” MAG FLOW METER, TYP.”
7. Drawing M3027 FILTER BUILDING MECHANICAL SAMPLE PIPING CABLE TRAY ROUTING PLAN
    a. Modify all “24" WIDE CABLE TRAY, TYP, SEE NOTES” callouts as such: “~~24~~ **12**” WIDE CABLE TRAY, TYP, SEE NOTES”.

C. ATTACHMENTS

1. Section 09 67 23 – EPOXY FLOOR SYSTEM
2. Drawing E6004 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – ENLARGED CONTAINMENT AREA NORTH – POWER PLAN
3. Drawing E6008 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – PANEL SCHEDULES
4. Drawing E6010 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONTROL BLOCK DIAGRAM
5. Drawing E6012 SODIUM HYPOCHLORITE CHEMICAL BUILDING – ELECTRICAL – CONDUIT AND WIRE SCHEDULE
6. Bidder Questions and Responses

HAZEN AND SAWYER

SECTION 09 67 23
EPOXY FLOOR SYSTEM

PART 1 – GENERAL

1.01 THE REQUIREMENT

A. Scope:

1. Furnish all labor, materials, equipment, and incidentals required to furnish and install seamless Epoxy Floor Topping systems as shown and specified.

2. Epoxy Floor Topping Work includes:

a. Surface preparation and installation of Epoxy Floor Topping.

b. Installation of Epoxy Floor Topping.

c. All clean-up following installation of the Epoxy Floor Topping.

B. Coordination: Review installation procedures under other Sections and coordinate the installation of items that must be installed with the Epoxy Floor Topping systems.

1.02 QUALITY ASSURANCE

A. Manufacturer's Instructions: In addition to specified requirements, strictly comply with resin Manufacturer's printed instructions and recommendations, including:

1. Preparation of substrate.

2. Storing.

3. Mixing and applying materials.

4. Curing of Epoxy Floor Topping Work.

B. Installer's Qualifications:

1. All Epoxy Floor Topping and coved base shall be applied only by a firm which:

a. Is a recognized installer of epoxy flooring systems and has at least five (5) years proven experience in the installation and repair of epoxy flooring, or similar type flooring systems.

b. Is approved and certified by the materials Manufacturer to install the product.

C. System Coordination and Source:

1. In order to obtain a completely coordinated flooring system with compatible components, all materials shall be supplied and/or coordinated through the Manufacturer of the flooring resins.

2. All components, and all installation methods and procedures shall be in strict conformance with the resin Manufacturer's written recommendations.

D. Epoxy components shall not produce volatile organic compounds during installation and all air regulations shall be complied with during installation of work.

1.03 SUBMITTALS

A. Samples:

1. Submit 6-inch samples of accessories such as divider strips, edge strips, expansion strips, etc.

2. Provide flat samples, 36" x 36" minimum, of the full thickness flooring materials, with differing amounts of skid-resistance:

a. Provide a minimum of three such samples, installed on hardboard backing for District review, and selection of surface finish required.

3. Color samples.

B. Shop Drawings:

1. Submit Shop Drawings for layout and details of all stop and divider strips, expansion strips and base strips.

C. Manufacturer's Certificate:

1. Submit copies of manufacturer's written certification that all epoxy flooring system materials meet or exceed the properties specified herein.

D. Qualifications:

1. Submit installer qualifications including letter from manufacturer stating that the installer is certified and approved to install flooring. Provide letter showing a listing a minimum of five projects of similar scope and using the same materials and manufacturer proposed.

2. Submit detailed Plan of Operation for building ventilation and access restrictions prior to beginning Work in any new area or location.

PART 2 – PRODUCTS

2.01 SYSTEM

A. The flooring system shall consist of the following:

1. Concrete surface preparation and moisture testing in accordance with manufacturer's printed recommendations and installation instructions.

2. Surface priming with a moisture tolerant primer with excellent wetting properties.

3. An epoxy bodycoat with multi-colored flake to simulate terrazzo.

4. Two topcoats as required to provide desired finish.

5. Final cleaning.

B. Finished Floor Physical Properties:

1. Compressive Strength: 8,000 minimum PSI after 7 days.

2. Flexural Strength: 2,400 PSI minimum.

3. Tensile Strength: 1, 500 PSI minimum.

4. Water Absorption: 0.20% maximum.

5. Hardness (Shore D): 85-90.

6. Nominal Finished Floor and Coved Base Thickness:

a. 3/32-inch minimum, unless indicated otherwise at specific areas. Provide additional coats as recommended by manufacturer to achieve desired thickness.

C. Finished Floor Performance Properties:

1. Bond Strength to Concrete: 400 PSI minimum or cohesive failure of concrete.

2. Flammability: Self-extinguishing; ASTM-D-635-63.

3. Fungus and Bacteria Resistance: Will not support growth of fungus or bacteria when subjected to tests; MIL-F-52505, Section 4.4.2.11.

4. Wear Resistance (Taber): 60 mg, maximum loss per 1000 cycles.

5. Slip resistance as required to meet accessibility and safety codes.

D. Product and Manufacturer:

1. Stonres STR (Epoxy Terrazzo) as manufactured by Stonhard.

2. Steri-Flake (Epoxy Terrazzo) as manufactured by Dudick, Inc.

3. Deco-Flake (Epoxy Terrazzo) as manufactured by TNEMEC.

4. Decorative Mosaic (Epoxy Terrazzo) by General Polymers.

5. Or equal.

2.02 COMPONENTS

A. General: All components of the Epoxy Floor Topping system are to be coordinated by the Manufacturer and mixed and installed in strict compliance with the Manufacturer's recommendations. The following are intended to be general component descriptions only, and are not intended to alter the resin Manufacturer's specific formulation or recommendations.

B. Surface Primer: Two component, penetrating, moisture tolerant epoxy primer applied at 150-200 square feet per gallon. Provide crack isolation membrane or coat where recommended by manufacturer.

C. Bodycoat shall epoxy resin.

D. Boardcast flakes into surfaces in accordance with manufacturer’s recommendations. After cure sweep and remove all loose. Sand as required to create a smooth surface.

E. Seal Coat: UV resistant top coat with excellent abrasion, chemical, and color stability.

F. Expansion Joints:

1. At structural expansion or control joints.

2. Joint Filler: Elastomeric sealant.

G. Trim and/or Divider Strips: Non-corrosive materials (plastic, PVC, etc.) only, as recommended by the Manufacturer to be compatible with the usage and exposure conditions stated for the flooring materials.

H. Provide cove base to match color and finish of floor. Isolate as recommended by manufacturer.

I. Colors shall be selected by Owner from custom blends based of standard colors. Each room shall have a unique color. Second floor corridor shall include a logo at the elevator entrance.

PART 3 – EXECUTION

3.01 INSPECTION

A. Contractor shall examine the areas and conditions under which the flooring work is to be installed and notify the District of conditions detrimental to the proper and timely completion of the Work.

B. Proceed with the Work only after deficiencies have been satisfactorily corrected. If after surface preparations voids or honeycombs appear on the concrete, repair with suitable material.

C. Verify that all new concrete surfaces have received a steel trowel finish, slope toward the floor drains, are at least four weeks old, and have been free of standing water for at least 7 days.

D. Verify that all surfaces have been properly cleaned and conditioned, and that curing, hardening or waterproofing agents have not been used in curing new concrete surfaces which are to receive flooring.

3.02 VENTILATION AND SAFETY

A. The Contractor shall provide adequate temporary ventilation of all indoor areas at all times. Air changes per hour in the enclosed room shall be 12 minimum.

1. Vent odors from low areas (fumes heavier than air) to the outside. Do not allow fumes to enter any air conditioning ducts or air intake ducts. Fumes are flammable; verify all fans and electrical equipment are suitable to operate in area.

2. Seal off all adjacent areas. Provide Plan of Operation prior to this Work for Owner review and approval.

3. Prevent fans or air movement from blowing dust particles onto wet flooring areas.

4. Suitable respirators shall be used by all workers. Provide two additional respirators for Plant Personnel and Construction Inspectors.

5. Installer shall use a Portable Gas Monitor in all enclosed rooms/buildings to monitor combustible levels. Monitor shall be listed by a third party as intrinsically safe to Class I, Division I, Groups A, B, C, and D. Monitor range shall be 0-100 percent with a 1 percent resolution. Monitor shall be Passport Personal Alarm as manufactured by MSA Instruments or equal.

B. Provide suitable safety clothes and glasses for construction workers, plant personnel, and construction inspectors as necessary.

C. Install temporary potable water eyewashes and safety showers.

D. Keep open flames and sparks away from the area.

3.03 INSTALLATION TEMPERATURE

A. In order to promote proper curing of the coating systems, the Contractor shall be required to maintain a minimum air temperature surrounding all structures which have surfaces to be topped with resin materials.

1. Temperature requirements shall be maintained at least two days before the trowel coat topping installation begins and shall continue through the curing period required for the seal coat.

2. Minimum air temperature shall be 65°F. Provide warmer conditions if required by the resin Manufacturer.

3. The building heating and air handling units shall not be used by the Contractor.

B. In addition to the ambient air requirements, the temperatures of all surfaces to receive flooring shall also be maintained at a minimum temperature of 65°F.

3.04 FLOORING INSTALLATION

A. Comply with the Manufacturer's recommendations for preparation and priming of substrate, proportioning mixes, installation of strips, placing, curing, sealing and finishing.

B. Once flooring operations have commenced, control all unnecessary foot traffic, construction activities, etc., in the area in order to keep substrate clean.

C. General Substrate Preparation:

1. Concrete: Mechanical clean surfaces to remove oils, fats, greases, waxes, membrane coatings, paints, etc. Mechanically scarify surfaces to remove surface laitance and profile in accordance with ICRI 310.2, (CSP) Concrete Surface Profile 3 - 5. Chip and chase terminations and at edges of floor drains and other built in components as recommended by manufacturer.

2. Cover tops of floor drains with duct tape or similar material to allow placement of and finishing of abutting floor materials.

3. Test floor for moisture content prior to beginning work. Do not install flooring until moisture content is within allowable ranges recommended by manufacturer.

D. Install flooring materials at coved bases, curbs, stair treads and risers, and landings without interruptions or seams, except where divider strips, control joints and expansion joints are shown, or required, or specifically recommended by the resin Manufacturer.

E. Provide control joints where required by manufacturer and approved on shop drawings. Install joints flush with floor by placing angle-type divider strips back-to-back with neoprene rubber filler cemented between strips.

1. Install control joints immediately above all joints of structural concrete, or above all control or construction joints in new concrete slabs.

F. Provide expansion joints where shown or required.

G. Provide trim or finish strips along any exposed edges of flooring or along tops of coved bases that are exposed to view.

1. Apply a continuous bead of clear silicone caulking along all trim strip edges to seal any gaps or irregularities between masonry (or concrete) surfaces and the trim strip material.

H. All installation procedures shall be in strict accordance with manufacturer's recommendations and these specifications.

I. Floor shall be smooth with a slip resistance as required to meet accessibility requirements.

3.05 CLEANING AND PROTECTION

A. Protection:

1. Provide protection for finished floor topping Work until building is ready for occupancy.

2. Immediately repair any damaged surfaces in accordance with Manufacturer's instructions.

B. Final Cleaning:

1. Thoroughly wash all surfaces prior to final acceptance of the Work included under this Contract. Washing shall be by high pressure water cleaner with TSP (trisodium-phosphate).

END OF SECTION

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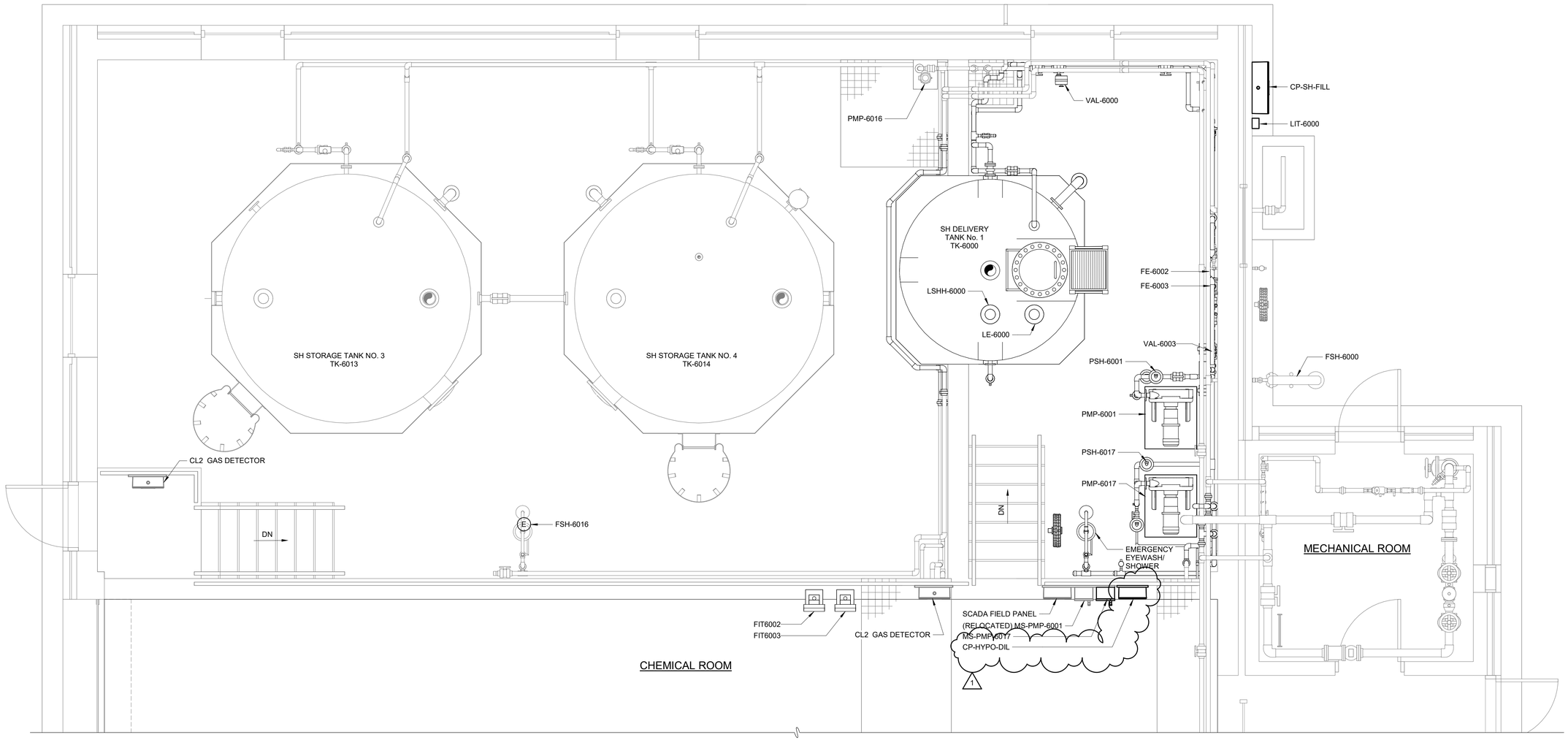
NOTES:

1. PLAN DRAWINGS SHOW APPROXIMATE EQUIPMENT AND INSTRUMENTATION LOCATIONS. COORDINATE EXACT LOCATIONS WITH FIELD REQUIREMENTS AND OTHER DISCIPLINES AND APPROVED SHOP DRAWINGS.

PLANT NORTH
N



ENLARGED CONTAINMENT AREA PLAN NORTH - POWER PLAN

3/8" = 1'-0"

GMP SUBMITTAL. DO NOT USE FOR CONSTRUCTION.

REV	ISSUED FOR	DATE	BY
1	ADDENDUM 3	01/16/25	BDB

PROJECT MANAGER:	T. HUDSON
DESIGNED BY:	S. CHAVEZ
DRAWN BY:	S. CHAVEZ
PROJECT ENGINEER:	B. BUELTEL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0 1/2" 1")

Hazen

HAZEN AND SAWYER
8150 N. CENTRAL EXPRESSWAY
TOWER II - SUITE 700
DALLAS, TEXAS 75206

CENTRAL ARKANSAS WATER
LITTLE ROCK, ARKANSAS

JACK H. WILSON WTP RENEWAL
AND RESILIENCY PROJECT

SODIUM HYPOCHLORITE CHEMICAL BUILDING
ELECTRICAL
ENLARGED CONTAINMENT AREA NORTH- POWER PLAN

DATE:	NOVEMBER 2024
HAZEN NO.:	60711-003
CONTRACT NO.:	1
DRAWING NUMBER:	E6004

480/277 VOLTS
3 PHASE, 4 WIRE

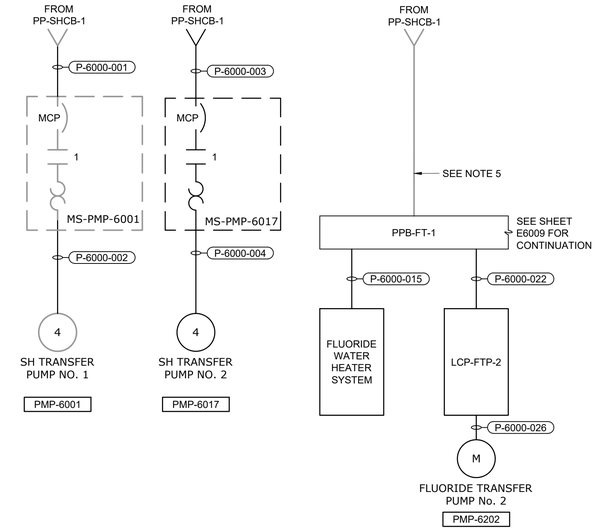
PP-SHCB-1
MAIN LUGS ONLY
400A 3P

TYPE: NEMA 1
MOUNT: SURFACE

MODS	DESCRIPTION	WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	WIRE	DESCRIPTION	MODS
LFD	FLUORIDE WATER HEATER SYSTEM	P-6000-015	25	3	1	4,500			13,333			2					
					3		4,500			13,333		4	3	70		PANEL "LP1" AND "LP2"	
					5			4,500			13,333	6					
					7	14,400			3,033			8					
	MAU-2		70	3	9		14,400			3,033		10	3	20		AHU-2	
					11			14,400			3,033	12					
					13	330			333			14					
	SUMP PUMP 1		20	3	15		330			333		16	3	20		SUMP PUMP 2	
					17			330			333	18					
					19	1,390			166			20					
	UH-2		20	3	21		1,390			166		22	3	20		EF-6 AND EF-8	
					23			1,390			166	24					
					25	83			1,330			26					
	EF-7		20	3	27		83			1,330		28	3	20	P-6000-001	SH TRANSFER PUMP PMP-6001	LFD
					29			80			1,330	30					
					31	83			1,330			32					
	EF-9		20	3	33		83			1,330		34	3	20	P-6000-003	SH TRANSFER PUMP PMP-6017	LFD
					35			83			1,330	36					
	LIGHTS-INTERIOR		30	3	37	2,250			-			38					
	LIGHTS-INTERIOR		30	3	39		2,250			-		40	3	20	P-6000-022	LCP-FTP-2	LFD
	LIGHTS-INTERIOR		30	3	41			2,250			-	42					
					TOTAL	23,036	23,036	23,033	19,525	19,525	19,525	TOTAL					
						PHASE TOTAL			TOTAL LOAD (VA)								
						42,561	42,561	42,558	127,680								
									TOTAL LOAD (A)								
									154								

MODIFICATION (MODS) LEGEND:
EPD - GROUND FAULT CIRCUIT INTERRUPTER (30mA)
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE

NOTES:



PP-SHCB-1
RISER DIAGRAM

NOTES:

1. NSSC SERIES MANUAL MOTOR STARTING SWITCH WITHOUT OVERLOAD PROTECTION.
2. UTILIZE SPARE BREAKERS TO POWER NEW VAL-6000, VAL-6003, FIT-6002, FIT-6003, LIT-6000, CP-SH-FILL, PMP-6025, FIT-6025, FIT-6026 AS SHOWN.
3. CONTRACTOR SHALL UPDATE EXISTING PANEL LP-SHCB-1 SCHEDULE TO REFLECT CHANGES SHOWN.
4. CONTRACTOR SHALL UPDATE EXISTING PANEL PP-SHCB-1 SCHEDULE TO REFLECT CHANGES SHOWN.
5. ROUTE THROUGH EXISTING 2" SPARE CONDUIT IN DB-17 TO FLUORIDE TANKS. SEE SHEET E6009 FOR ADDITIONAL LOADS FROM LP-SHCB-2 TO BE RUN IN THE SAME CONDUIT.
6. EXISTING PANEL LP-SHCB-1 IS A SQUARE D MODEL PANEL, CAT. No. 12281008340040001.
7. EXISTING PANEL PP-SHCB-1 IS S A SQUARE D MODEL NF, CAT. No. 1227237132003000 1
8. PROVIDE FLEXIBLE POWER PIGTAIL CORD AND PLUG AS SPECIFIED IN SECTION 26 05 19. TERMINATE CONDUCTORS IN JUNCTION BOX WITH TERMINAL STRIPS. INSTALL MINI CHANGE, C-SIZE 12 POLE, FEMALE RECEPTACLE INTO CONDUIT HUB ON MOTOR ACTUATOR FOR POWER CONNECTION.
9. PROVIDE FLEXIBLE CONTROLS PIGTAIL CORD AND PLUG AS SPECIFIED IN SECTION 26 05 19. TERMINATE CONDUCTORS IN JUNCTION BOX WITH TERMINAL STRIPS. INSTALL MINI CHANGE, C-SIZE 12 POLE, MALE RECEPTACLE INTO CONDUIT HUB ON MOTOR ACTUATOR FOR CONTROLS CONNECTION. 1
10. POWER AND CONTROLS WIRING SHALL TERMINATE IN SAME JUNCTION BOX. PIGTAIL CORDS FOR BOTH POWER AND CONTROLS FROM JUNCTION BOX TO ACTUATOR SHALL BE RAN IN SAME CONDUIT. SEE SHEET E6010 FOR CONTROLS CONNECTION FROM CP-WIL-SHCB TO JUNCTION BOX.

208/120 VOLTS
3 PHASE, 4 WIRE

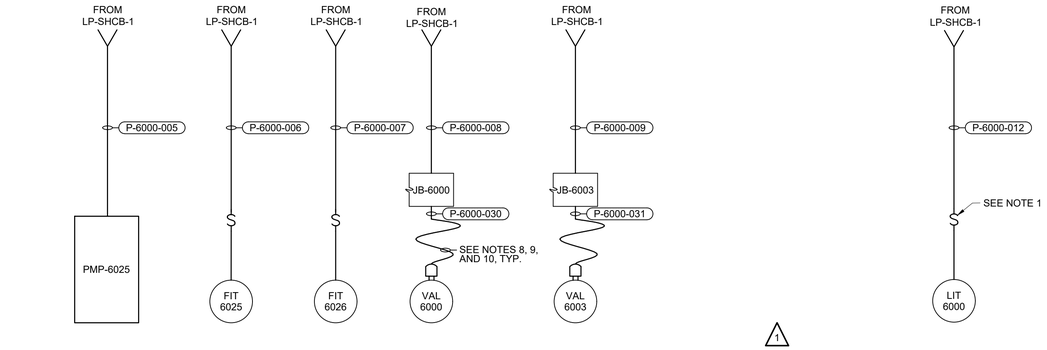
LP-SHCB-1
MAIN BREAKER
150A 3P

TYPE: NEMA 1
MOUNT: SURFACE

MODS	DESCRIPTION	WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	VOLT-AMPERES A	VOLT-AMPERES B	VOLT-AMPERES C	CKT No.	POLE	TRIP	WIRE	DESCRIPTION	MODS
	SPARE		50	2	1	-			1,440			2	1	20		RECEPTACLES-MECH. ROOM	
					3		-			900		4	1	20		RECEPTACLES-ELECT. ROOM	
LFD	VAL-6000	P-6000-008	10	1	5			500			0	6	1	20		RECEPTACLES-CHEM. AREA	
LFD	METERING PUMP PMP-6021	-	20	1	7	250			0			8	1	20		RECEPTACLES-CHEM. AREA	
LFD	METERING PUMP PMP-6023	-	20	1	9		250			530		10	1	20		RECEPTACLES-CHEM. AREA	
LFD	METERING PUMP PMP-6026	-	20	1	11			250			1,000	12	1	20		RECEPTACLES-CHEM. AREA	
LFD	METERING PUMP PMP-6022	-	20	1	13	250			500			14	1	20		EF-10	
LFD	METERING PUMP PMP-6024	-	20	1	15		250			500		16	1	20		ACCESS CONTROL PANEL	
LFD	VAL-6003	P-6000-009	10	1	17			500			250	18	1	20		FIT-600	
LFD	CP-HYPO-DIL	P-6000-032	20	1	19	500			250			20	1	20		FIT-601	
	SPARE		30	1	21					250		22	1	20		FIT-602	
	HVAC CONTROL PANEL		30	1	23			100			250	24	1	20		FIT-603	
	LIGHTS-MECHANICAL ROOM		30	1	25	640			250			26	1	20		FIT-605 WEST MTR	
	LIGHTS-ELECTRICAL ROOM		20	1	27		260			250		28	1	20		FIT-604 EAST MTR	
	FIT-606		20	1	29			250			200	30	1	20	P-6000-005	METERING PUMP PMP-6025	LFD
	LIGHTS-EXIT		20	1	31	2,700			200			32	1	20	P-6000-006	FIT-6025	LFD
LFD	LIT-6000	P-6000-012	20	1	33		200			-		34	1	20		ADVENT	
LFD	CP-SH-FILL	P-6000-013	20	1	35			500			-	36	1	20		SCADA	
	CL2 GAS DETECTOR		20	1	37	100			200			38	1	20	P-6000-007	FIT-6026	LFD
	CP-CL2		20	1	39		100				-	40	2	20		SPARE	
	FIRE ALARM CONTROL PANEL		20	1	41			-	-			42					
					TOTAL	4,440	1,060	2,100	2,840	2,430	1,700	TOTAL					
						PHASE TOTAL			TOTAL LOAD (VA)								
						7,280	3,490	3,800	14,570								
									TOTAL LOAD (A)								
									40								

MODIFICATION (MODS) LEGEND:
EPD - GROUND FAULT CIRCUIT INTERRUPTER (30mA)
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
LOD - LOCK-ON DEVICE
LFD - LOCK-OFF DEVICE

NOTES:



LP-SHCB-1
RISER DIAGRAM

GMP SUBMITTAL. DO NOT USE FOR CONSTRUCTION.

REV	ISSUED FOR	DATE	BY
2	ADDENDUM 3	01/16/25	BDB
1	ADDENDUM 2	01/09/25	BDB

PROJECT MANAGER: T. HUDSON
DESIGNED BY: S. CHAVEZ
DRAWN BY: S. CHAVEZ
PROJECT ENGINEER: B. BUELTEL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

Hazen
HAZEN AND SAWYER
8150 N. CENTRAL EXPRESSWAY
TOWER II - SUITE 700
DALLAS, TEXAS 75206

CENTRAL ARKANSAS WATER
LITTLE ROCK, ARKANSAS

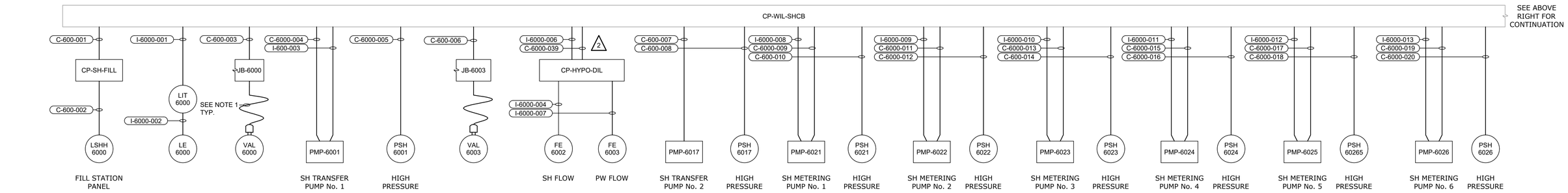
JACK H. WILSON WTP RENEWAL AND RESILIENCY PROJECT

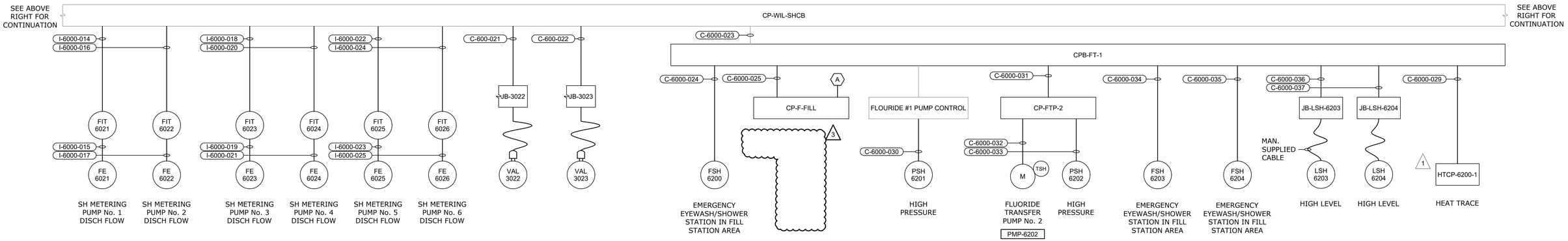
SODIUM HYPOCHLORITE CHEMICAL BUILDING
ELECTRICAL
PANEL SCHEDULES

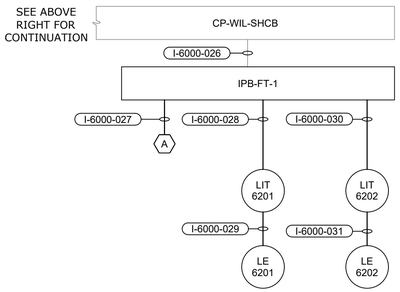
DATE: NOVEMBER 2024
HAZEN NO.: 60711-003
CONTRACT NO.: 1
DRAWING NUMBER: E6008

NOTES:

1. POWER AND CONTROLS WIRING SHALL TERMINATE IN SAME JUNCTION BOX. PIGTAIL CORDS FOR BOTH POWER AND CONTROLS FROM JUNCTION BOX TO ACTUATOR SHALL BE RAN IN SAME CONDUIT. SEE SHEET E6008 FOR CONNECTION DETAILS AND CONDUIT NUMBER.







CP-WIL-SHCB
CONTROL BLOCK DIAGRAM

GMP SUBMITTAL. DO NOT USE FOR CONSTRUCTION.

REV	ISSUED FOR	DATE	BY
3	ADDENDUM 3	01/16/25	BDB
2	ADDENDUM 2	01/09/25	BDB
1	ADDENDUM 1	12/17/24	BDB

PROJECT MANAGER:	T. HUDSON
DESIGNED BY:	S. CHAVEZ
DRAWN BY:	S. CHAVEZ
PROJECT ENGINEER:	B. BUELTEL

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

Hazen
HAZEN AND SAWYER
8150 N. CENTRAL EXPRESSWAY
TOWER II - SUITE 700
DALLAS, TEXAS 75206

CENTRAL ARKANSAS WATER
LITTLE ROCK, ARKANSAS

JACK H. WILSON WTP RENEWAL AND RESILIENCY PROJECT

SODIUM HYPOCHLORITE CHEMICAL BUILDING
ELECTRICAL
CONTROL BLOCK DIAGRAM

DATE:	NOVEMBER 2024
HAZEN NO.:	60711-003
CONTRACT NO.:	1
DRAWING NUMBER:	E6010

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS	REMARKS
P-6000-001	3/4"	PP-SHCB-1	MS-PMP-6001	3#12, #12GND	
P-6000-002	3/4"	MS-PMP-6001	PMP-6001	3#12, #12GND	
P-6000-003	3/4"	PP-SHCB-1	MS-PMP-6017	3#12, #12GND	
P-6000-004	3/4"	MS-PMP-6017	PMP-6017	3#12, #12GND	
P-6000-005	3/4"	LP-SHCB-1	PMP-6025	2#12, #12GND	
P-6000-006	3/4"	LP-SHCB-1	FIT-6025	2#12, #12GND	VIA DSW
P-6000-007	3/4"	LP-SHCB-1	FIT-6026	2#12, #12GND	VIA DSW
P-6000-008	3/4"	LP-SHCB-1	JB-6000	2#12, #12GND	VIA DSW
P-6000-009	3/4"	LP-SHCB-1	JB-6003	2#12, #12GND	VIA DSW
P-6000-010	3/4"	LP-SHCB-1	FIT-6002	2#12, #12GND	VIA DSW
P-6000-011	3/4"	LP-SHCB-1	FIT-6003	2#12, #12GND	VIA DSW
P-6000-012	3/4"	LP-SHCB-1	LIT-6000	2#12, #12GND	VIA DSW
P-6000-013	3/4"	LP-SHCB-1	CP-SH-FILL	2#12, #12GND	
P-6000-014	1"	LP-SHCB-2	HTCP-6200-1	2#10, #10GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-015	1"	PP-SHCB-1	FLUORIDE WATER HEATER SYSTEM	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-016	1"	LP-SHCB-2	FLUORIDE EYEWASH TANK 1	3#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-017	1"	LP-SHCB-2	FLUORIDE EYEWASH TANK 2	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-018	1"	LP-SHCB-2	FLUORIDE HOT BOX	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-019	3/4"	LP-SHCB-2	FLUORIDE EYEWASH FILL STATION	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-020	3/4"	LP-SHCB-2	CP-F-FILL	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-021	3/4"	LP-SHCB-2	LIT-6201	2#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-022	3/4"	PP-SHCB-1	LCP-FTP-2	3#12, #12GND	VIA EXISTING SPARE 2" TO FLUORIDE
P-6000-023	3/4"	FLUORIDE EYEWASH TANK 1	FSH-6003	2#12, #12GND	
P-6000-024	3/4"	FLUORIDE EYEWASH TANK 2	FSH-6004	2#12, #12GND	
P-6000-025	3/4"	FLUORIDE EYEWASH FILL STATION	FSH-6000	2#12, #12GND	
P-6000-026	1"	LCP-FTP-2	PMP-6202	3#12, #12GND	
P-6000-027	3/4"	HTCP-6200-1	WATER HEATER SUPPLY - CIRCUIT 1	2#10, #10GND	
P-6000-028	3/4"	WATER HEATER SUPPLY - CIRCUIT 1	FLUORIDE CONT. 2 - CIRCUIT 2	2#10, #10GND	
P-6000-029	3/4"	HTCP-6200-1	FLUORIDE CONT. 1 - CIRCUIT 3	2#10, #10GND	
P-6000-030	1-1/2"	JB-6000	VAL-6000	(2) PIGTAIL CORDSET	POWER AND CONTROLS
P-6000-031	1-1/2"	JB-6003	VAL-6003	(2) PIGTAIL CORDSET	POWER AND CONTROLS
P-6000-032	3/4"	LP-SHCB-1	CP-HYPO-DIL	2#12, #12GND	

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS	REMARKS
I-6000-001	3/4"	CP-WIL-SHCB	LIT-6000	(2/C#16TSH), #14GND	
I-6000-002	3/4"	LIT-6000	LE-6000	MAN. SUPPLIED CABLE	
I-6000-003	1"	CP-WIL-SHCB	PMP-6001	3(2/C#16TSH), #14GND	
I-6000-004	3/4"	CP-HYPO-DIL	FE-6002	MAN. SUPPLIED CABLE	
I-6000-005	-	-	-	NOT USED	
I-6000-006	1"	CP-WIL-SHCB	CP-HYPO-DIL	3(2/C#16TSH), #14GND	
I-6000-007	3/4"	CP-HYPO-DIL	FE-6003	MAN. SUPPLIED CABLE	
I-6000-008	1"	CP-WIL-SHCB	PMP-6021	2(2/C#16TSH), #14GND	
I-6000-009	1"	CP-WIL-SHCB	PMP-6022	2(2/C#16TSH), #14GND	
I-6000-010	1"	CP-WIL-SHCB	PMP-6023	2(2/C#16TSH), #14GND	
I-6000-011	1"	CP-WIL-SHCB	PMP-6024	2(2/C#16TSH), #14GND	
I-6000-012	1"	CP-WIL-SHCB	PMP-6025	2(2/C#16TSH), #14GND	
I-6000-013	1"	CP-WIL-SHCB	PMP-6026	2(2/C#16TSH), #14GND	
I-6000-014	3/4"	CP-WIL-SHCB	FIT-6021	(2/C#16TSH), #14GND	
I-6000-015	3/4"	FIT-6021	FE-6021	MAN. SUPPLIED CABLE	
I-6000-016	3/4"	CP-WIL-SHCB	FIT-6022	(2/C#16TSH), #14GND	
I-6000-017	3/4"	FIT-6022	FE-6022	MAN. SUPPLIED CABLE	
I-6000-018	3/4"	CP-WIL-SHCB	FIT-6023	(2/C#16TSH), #14GND	
I-6000-019	3/4"	FIT-6023	FE-6023	MAN. SUPPLIED CABLE	
I-6000-020	3/4"	CP-WIL-SHCB	FIT-6024	(2/C#16TSH), #14GND	
I-6000-021	3/4"	FIT-6024	FE-6024	MAN. SUPPLIED CABLE	
I-6000-022	3/4"	CP-WIL-SHCB	FIT-6025	(2/C#16TSH), #14GND	
I-6000-023	3/4"	FIT-6025	FE-6025	MAN. SUPPLIED CABLE	
I-6000-024	3/4"	CP-WIL-SHCB	FIT-6026	(2/C#16TSH), #14GND	
I-6000-025	3/4"	FIT-6026	FE-6026	MAN. SUPPLIED CABLE	
I-6000-026	1-1/2"	CP-WIL-SHCB	IPB-FT-1	4(2/C#16TSH), #14GND	VIA EXISTING 2" TO FLUORIDE
I-6000-027	1"	IPB-FT-1	CP-F-FILL	2(2/C#16TSH), #14GND	
I-6000-028	3/4"	IPB-FT-1	LIT-6201	(2/C#16TSH), #14GND	
I-6000-029	3/4"	LIT-6201	LE-6201	MAN. SUPPLIED CABLE	
I-6000-030	3/4"	IPB-FT-1	LIT-6202	(2/C#16TSH), #14GND	EXISTING CONDUIT
I-6000-031	3/4"	LIT-6202	LE-6202	MAN. SUPPLIED CABLE	
I-6000-032	-	-	-	NOT USED	
I-6000-033	-	-	-	NOT USED	

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS	REMARKS
C-6000-001	3/4"	CP-WIL-SHCB	CP-SH-FILL	4#14, #14GND	
C-6000-002	3/4"	CP-SH-FILL	LSHH-6000	4#14, #14GND	
C-6000-003	3/4"	CP-WIL-SHCB	VAL-6000	14#14, #14GND	
C-6000-004	3/4"	CP-WIL-SHCB	PMP-6001	10#14, #14GND	
C-6000-005	3/4"	CP-WIL-SHCB	PSH-6001	4#14, #14GND	
C-6000-006	3/4"	CP-WIL-SHCB	VAL-6003	14#14, #14GND	VIA JB-6003
C-6000-007	3/4"	CP-WIL-SHCB	PMP-6017	10#14, #14GND	
C-6000-008	3/4"	CP-WIL-SHCB	PSH-6017	4#14, #14GND	
C-6000-009	3/4"	CP-WIL-SHCB	PMP-6021	10#14, #14GND	
C-6000-010	3/4"	CP-WIL-SHCB	PSH-6021	4#14, #14GND	
C-6000-011	3/4"	CP-WIL-SHCB	PMP-6022	10#14, #14GND	
C-6000-012	3/4"	CP-WIL-SHCB	PSH-6022	4#14, #14GND	
C-6000-013	3/4"	CP-WIL-SHCB	PMP-6023	10#14, #14GND	
C-6000-014	3/4"	CP-WIL-SHCB	PSH-6023	4#14, #14GND	
C-6000-015	3/4"	CP-WIL-SHCB	PMP-6024	10#14, #14GND	
C-6000-016	3/4"	CP-WIL-SHCB	PSH-6024	4#14, #14GND	
C-6000-017	3/4"	CP-WIL-SHCB	PMP-6025	10#14, #14GND	
C-6000-018	3/4"	CP-WIL-SHCB	PSH-6025	4#14, #14GND	
C-6000-019	3/4"	CP-WIL-SHCB	PMP-6026	10#14, #14GND	
C-6000-020	3/4"	CP-WIL-SHCB	PSH-6026	4#14, #14GND	
C-6000-021	3/4"	CP-WIL-SHCB	VAL-3022	14#14, #14GND	
C-6000-022	3/4"	CP-WIL-SHCB	VAL-3023	14#14, #14GND	
C-6000-023	1"	CP-WIL-SHCB	CPB-FT-1	44#14, #14GND	VIA EXISTING 2" TO FLUORIDE
C-6000-024	3/4"	CPB-FT-1	FSH-6200	4#14, #14GND	
C-6000-025	3/4"	CPB-FT-1	CP-F-FILL	6#14, #14GND	
C-6000-026	-	-	-	NOT USED	
C-6000-027	1"	FPP-WIL-SHCB	FPP-WIL-CLDX	FO CABLE	
C-6000-028	1"	FPP-WIL-CLDX	FPP-WIL-BCB	FO CABLE	
C-6000-029	3/4"	CPB-FT-1	HTCP-6200-1	4#14, #14GND	
C-6000-030	3/4"	FLOURIDE #1 PUMP CONTROL	PSH-6201	4#14, #14GND	
C-6000-031	3/4"	CPB-FT-1	LCP-FTP-2	14#14, #14GND	
C-6000-032	3/4"	CP-FTP-2	PMP-6202	4#14, #14GND	
C-6000-033	3/4"	CP-FTP-2	PSH-6202	4#14, #14GND	
C-6000-034	3/4"	CPB-FT-1	FSH-6203	4#14, #14GND	
C-6000-035	3/4"	CPB-FT-1	FSH-6204	4#14, #14GND	
C-6000-036	3/4"	CPB-FT-1	JB-LSH-6203	4#14, #14GND	
C-6000-037	3/4"	CPB-FT-1	JB-LSH-6204	4#14, #14GND	
C-6000-038	1"	FPP-WIL-CLDX	FPP-WIL-BCB	EMPTY W/PULLSTRING	
C-6000-039	3/4"	CP-WIL-SHCB	CP-HYPO-DIL	4#14, #14GND	

GMP SUBMITTAL. DO NOT USE FOR CONSTRUCTION.

REV	ISSUED FOR	DATE	BY
3	ADDENDUM 3	01/16/25	BDB
2	ADDENDUM 2	01/09/25	BDB
1	ADDENDUM 1	12/17/24	BDB

PROJECT MANAGER: T. HUDSON
DESIGNED BY: S. CHAVEZ
DRAWN BY: S. CHAVEZ
PROJECT ENGINEER: B. BUELTEL
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

Hazen
HAZEN AND SAWYER
8150 N. CENTRAL EXPRESSWAY
TOWER II - SUITE 700
DALLAS, TEXAS 75206

CENTRAL ARKANSAS WATER
LITTLE ROCK, ARKANSAS

JACK H. WILSON WTP RENEWAL AND RESILIENCY PROJECT

SODIUM HYPOCHLORITE CHEMICAL BUILDING
ELECTRICAL
CONDUIT AND WIRE SCHEDULE

DATE: NOVEMBER 2024
HAZEN NO.: 60711-003
CONTRACT NO.: 1
DRAWING NUMBER: E6012

Number	Question	Drawing/Specification Reference	Response
97	[NW Pipe] Reference Section 33 11 13, 1.01,B and Section 40 05 24.23, 2.04,A: Section 33 11 13 states that the pipe needs to be polyurethane lined and Section 40 05 24.23 states that the pipe needs to be cement mortar lined. Are we supplying the pipe with polyurethane lining or Cement mortar lining?	33 11 13 - 1.01.B / 40 05 24.23 - 2.04.A	Please note that these specifications are for different pipe applications. The steel raw water piping, as specified under 33 11 13 shall be supplied with a polyurethane interior lining. All other steel piping shall conform to the requirements of 40 05 24.23 unless otherwise noted.
98	[NW Pipe] Reference Drawing C1207 and Drawing C1201: Drawing C1207 has a 72” blind flange at approx. station 6+95. Drawing C1201 has a 72” welded bulkhead at approx. station 6+95. Are we supplying a blind flange or dish head at station 6+95?	C1201/C1207	The revised notation on Sheet C1201 is correct for a welded bulkhead. C1201 was revised in Addendum No. 1.
99	[NW Pipe] Reference Drawing C1207 and Drawing C1201: Drawing C1207 shows a 48” ball valve at approx. station 7+26 and it doesn’t show a 72” ball valve at this approx. location. Drawing C1201 shows a 72” ball valve at approx. station 6+95. Will a 72” ball valve be installed at approx. station 6+95 in addition to the 48” ball valve at approx. station 7+26?	C1201/C1207	The perviously shown 72" diameter ball valve has been removed from the raw water line. The 48" ball valve at Station 7+26 is required for isolation. Sheet C1201 and C1207 were revised in Addendum No. 1.
100	[Ideal Construction] Is there any fire sprinkler work in the Architectural package.		No Fire Protection Plans in the Project.
101	[Ideal Construction] I’m not seeing an Epoxy Flooring Spec. Do we have one?		Epoxy floor coating specification will be provided.
102	[Dixie Metals] Drawing SD1, Alum Grate & Cover Plate Notes, States that Grate panels are to be Alum with Galv. Steel embed and structural supports	SD1	We will revise this Note in a subsequent addendum to indicate aluminum grating and cover plate supported by aluminum structural members, unless noted otherwise. A suitable coating system will have to be applied where any aluminum member comes in contact with concrete.
103	[Dixie Metals] Drawing SD2, Details S-05-200 & S-05-202 show Galv steel support members, however detail S-05-201 notes ledger supports to be aluminum.	SD2	We will revise these Details in a subsequent addendum to show aluminum structural member supports. The exception to this will be the W12 x 40 galvanized steel beams that will support the mixers in the Rapid Mix.
104	[Dixie Metals] Spec 05 50 00, 2.5, C: States that Metal frames & supports at Alum grating shall be of the same material as the grating.	05 50 00 - 2.5.C	This part of the spec reads “Metal frames and supports for grating shall be of the same material as the grating unless otherwise shown on the Drawings". Where aluminum supports are used, they shall be fabricated from AA 6061 T6.
105	[Dixie Metals] Spec 05 53 00, 2.1, B: States that Metal frames & supports at Alum grating shall be Galv. Steel.	05 53 00 - 2.1. B	The specification is under revision to clarify this item and will be issued in a future Addendum.
106	[Dixie Metals] Typical Plan views indicate Alum embed and beam supports. (For example, Ref drawings S2126, S2138)	S2126/S2138	Acknowledged as correct.
107	[Dixie Metals] Are we to price Alum Supports for gratings, which is more in line with industry standards?		Yes.
108	Can the EOR offer clarity on when/where Steel supports might be required?		Please reference prior responses.

Number	Question	Drawing/Specification Reference	Response
109	[Dixie Metals] Alum Plank Gratings are noted at some section cuts. For example, ref drawings 3/S2129 & keynote 3. Can the EOR clarify which grating type applies at the different openings?	S2129	1 ½-inch Aluminum Grating is typical at most all locations, except for the aluminum planking proposed for the south end of each of the four (4) Basins above the settled water channel. Another exception is FRP grating and support members for any chemical storage areas. Generally, the FRP grating is noted as FRP grating and FRP supports in these areas on the plans to specifically distinguish it from aluminum grating.
110	[WR Meadows] Please see the attachment for our formal request for product substitution consideration on Jack H. Wilson Water Treatment Plant Rehabilitation Project. We are submitting CEM-KOTE™ CW PLUS Capillary/Crystalline Waterproofing for your consideration. We appreciate your time in reviewing our request. If you have any questions or comments, please feel free to contact either Russell Vaughn (405) 826-9039 or myself (847) 214-2100.		No substitute products can be considered prior to the GMP for this product due to inadeqate review time. Products submitted as substitutes by the Contractor after the GMP is approved may be reviewed for use on this project.
111	[Koontz Electric] The control block diagram on E6010 shows a High-High Level Switch for Tank 1 at the Fluoride Containment (LSHH-6201). The corresponding circuit is also listed on the conduit/wire schedule on E6012, C-6000-026. On the P&IDs, I6200, the only instrument shown at Tank 1 is the Radar Level LE/LIT-6201. Please confirm if LSHH-6201 should be added or not.	E6010/E6012/I6200	LSHH-6201 has been removed from Tank 1 in order to be identical to that of Tank 2.
112	[Koontz Electric] There is a control panel that shows up on the control block diagram and conduit/wire schedule for the Sodium Hypo Chemical Building as VCP-HYPO-DIL1, but on the P&IDs its labeled as CP-HYPO-DIL. Assuming this is the same panel, please confirm if this is intended to be provided as part of the vendor package as a vendor control panel or not.	E6000/I6000 series	CP-HYPO-DIL will be provided by the vendor. The Electrical drawings have been modified in Addendum No. 3 to match "CP-HYPO-DIL" as shown on the P&IDs.
113	[Koontz Electric] Spec 40 79 00, 2.03 B states to provide diaphragm seals with capillaries where specified. Can you please confirm which, if any, diaphragm seals are to have capillaries as we do not see it called out anywhere if required.	40 79 00 - 2.03.B	Capillaries are not necessary for the diaphragm seals on this project.
114	[Koontz Electric] Drawing M3021 for the west gallery says that the flowmeters at each filter are to be 20” (typical for all). Drawing M3022 for the east gallery states flowmeters are to be 24” (typical for all). Detail 5 on drawing M3030 shows the flowmeters are to be 24”. Please confirm correct sizing of these flowmeters.	M3021/M3022	All filter flow meters are 24". This is included in Addendum No. 3.
115	[Koontz Electric] Please confirm correct sizing for flowmeters FE/FIT-6021 thru -6026. Their sizing is not called out on the mechanical or electrical drawings.	M6000 series	See Spec 40 61 91 for sizing of these flow meters.
116	[Koontz Electric] Please confirm the desired cable tray width for the sample lines in the Filter Bldg. Drawing M3027 shows the cable tray to be 24” wide, while Note 9 states to use Enduro model EHL4-12-06-10 which is 12” wide.	M3027	Cable trays are 12". Adding statement to Addendum No. 3 to address.

Number	Question	Drawing/Specification Reference	Response
117	[MFCC] Reference drawing S2134. Please clarify where sections UU and TT are cut from.	S2134	Section TT is a typical cross section of the center wall in Basin 1 and Basin 2. Section UU is a typical cross section of a center wall in Basin 3 and Basin 4. Details will be included in a subsequent addendum that depict the general location of these sections in plan view.
118	[D.L. Neuner Company, Inc.] Would you please add the following door hardware products to the Division 8 specs for bidding the upcoming Jack H. Wilson Water Treatment Plant Rehabilitation project – •Division 087100 – Section 2.2 o(B) – Best Hinges o(F) – Precision Exits o(G) – Best Door Closers o(I) – Trimco o(N) – Trimco Approval requests and product information are attached for your review. Please let me know if you have any questions and thanks for specifying ASI!	08 71 00 - Section 2.2	These hardware manufactures are acceptable - included in Addendum No. 3.
119	[MAPEI] I have reviewed the project specifications and attached a spreadsheet with MAPEI's equivalent products, including the relevant specification sections and page numbers. Additionally, I have included the applicable technical data sheets (TDS) and some other useful links below. I look forward to your response and the opportunity to support this project. I am happy to answer any questions or provide further information you may need. Thank you for your time and consideration.		No substitute for the specified products can be considered prior to the GMP for this product due to inadeqate review time. Products submitted as substitutes by the Contractor after the GMP is approved may be reviewed for use on this project and will be approved if they are determined to be equal.
120	[Calgon Carbon] Who will be responsible for removing and handling the spent GAC and sand? Confirming this is not part of the scope.	03 60 00	Max Foote Construction is self-performing the removal and handling of GAC. The filter media bid package is material. procurement only.
121	[Calgon Carbon] Who will be responsible for disposal of the spent GAC and sand? Confirming this is not part of the scope.	03 60 00	Max Foote Construction is self-performing the disposal of GAC. The filter media bid package is material procurement only.
122	[Open Air Products] Please see attached substitution request for sections 071100 (Henry 788) from the Henry Company. Attached is the data sheet for the proposed substitution. If you have questions or concerns, please feel free to contact Kevin Cheeks (205) 821-0329 he is copied on this email. kevin@openairproductsusa.com	07 11 00	Where is the information from "Open Air Products" located so we can review?
123	[Jack Tyler/Peabody Tanks] Our vendor, Peabody Tanks, is who we would like to quote the poly tanks. Can you forward to the engineer to get Peabody named? Below are the comments and considerations:	43 41 43	Our preference is HDXLPE tanks for their durability. HDLPE tanks will not be acceptable.
124	[Ideal Construction] The plans I have say "GMP Submittal". The Specifications I have say "90% Design Set". Please confirm these are the correct sets to use for pricing.	General - All Buildings	Correct.

Number	Question	Drawing/Specification Reference	Response
125	[Ideal Construction] Aluminum Frames & Doors designated as 'AL' on the Door Schedule (A0013). Are they to be provided under Specification 08 11 16 (Aluminum Doors & Frames) or Specification 08 41 00 (Aluminum Storefront) ??	General - All Buildings - A0013	All alum. doors and frames to be provided under 08 11 16. Door frames in an alum. storefront system may be fabricated from the storefront system, however the elements of that system that will carry the door and hardware, shall be structurally enhanced to carry such doors equal to or better than described in Section 08 11 16.
126	[Ideal Construction] I assume Max Foote will take of any building permits if required, correct?	General - All Buildings	Correct.
127	[Ideal Construction] I assume plumbing and HVAC subs will get their own permits, correct?	General - All Buildings	Correct.
128	[Ideal Construction] I assume ALL testing will be paid for by the owner or by Max Foote, is that correct?	General - All Buildings	Correct.
129	[Ideal Construction] Is sheet A0004 (Entry & Tour Accessibility) included in our scope of work, or no?	General - All Buildings / A0004	No.
130	[Ideal Construction] Is mortar color required in the new brick?	General - All Buildings	Mortar color of new construction will match as close as possible, that of the existing buildings.
131	[Ideal Construction] Misc Concrete—Is this is our scope of work?	Finished Water Chemical Feed Room (3100)	See below.
	a. Tank Pads (please provide details if required)		No, this is in CMAR's scope.
	b. Containment curbs		No, this is in CMAR's scope.
	c. Concrete Fill		No, this is in CMAR's scope.
132	[Ideal Construction] No Structural Drawings for the Filter Building were listed on the Bid Package. (S3000 thru S3026). a. We assume, "No Work" associated with these drawings?	Filter Building (3000)	Correct, CMAR is performing.
133	[Ideal Construction] Room 3050 in East Gallery. Finish schedule calls for new quarry floor tile. Plan sheet A3010 calls for the existing tile to be cleaned and resealed. Which is correct?	A3010	Existing tile shall be cleaned and resealed.
134	[Ideal Construction] Is the Earthwork part of this Bid Package ?	Bulk Chemical Building (6100)	CMAR (MFCC) will perform the cut to subgrade of rock bedding to within 0.1'.
	a. Clear & Grubb ?		No.
	b. Cut & Fill for Building Pad ?		Rock bedding.
	c. Other items of Earthwork ?		None.
135	[Ideal Construction] Is the Concrete Foundation part of this Bid Package ?	Bulk Chemical Building (6100)	Yes.
	a. There are No Concrete Details or Rebar design.		Response deferred to next addendum.
	b. If Concrete is to be included, what about:		See responses below:
	i. Tank Pads ?		Yes
	ii. Course Drain Fill ?		Yes
	iii. Slab on Deck at Electrical Room ?		Yes
136	[Ideal Construction] Some Masonry structural reinforcement details are not shown.	Bulk Chemical Building (6100)	Architectural wall sections are shown on sheets A0015 through A0018 - typical for all buildings
	#5 Rebar (not shown)		Response deferred to next addendum
	#5 Dowels (not shown)		Response deferred to next addendum

Number	Question	Drawing/Specification Reference	Response
	Hilti HY 200 (not shown)		Response deferred to next addendum
	Ladder Dur-O-Wall (not shown)		See note above related to Archictectural components
	Brick Ties (not shown)		See note above related to Archictectural components
	Grout fill cells (not shown)		Response deferred to next addendum
	Bond Beam (not shown)		Response deferred to next addendum
137	[Ideal Construction] Bearing Plates for Bar Joists are not shown.	Bulk Chemical Building (6100)	This detail will be provided in a subsequent amendment.
138	[Ideal Construction] Built-Up Roofing Details not provided. (check specs)	Bulk Chemical Building (6100)	See details on sheet A0021 and Built-up Roofing Specifications
139	[Ideal Construction] Room Finish Schedule, Electrical Room (6142) says Gypboard Ceiling at 9'-0", but it is not shown on section B/A6104. Is it to be a Suspended Gyp Ceiling or is the Room Finish Schedule wrong?	Bulk Chemical Building (6100) / A6104/A6142	No ceiling is to be provided in the electrical room. Paint exposed structure.
140	[Ideal Construction] Is the Earthwork part of this Bid Package?	Electrical Building No. 2 (7100)	Yes, in its entirety, including micropiles.
	a. Site Prep ?		Yes
141	[Ideal Construction] Is the Concrete Foundation part of this Bid Package?	Electrical Building No. 2 (7100)	Yes
142	[Ideal Construction] Some Masonry details are not shown. (Cavity details, reinforcements)	Electrical Building No. 2 (7100)	See question 136 above. See details on sheets A0015 through A0018. New construction is all similar.
	f. 1" Cavity Drainage Mat (not shown)		see above
	g. Rigid Insulation (not shown)		see above
	h. Dampproofing (not shown)		see above
	i. Ladder Dur-O-Wall (not shown)		see above
	j. Brick Ties (not shown)		see above
143	[Ideal Construction] Joist Bearing Plates?	Electrical Building No. 2 (7100)	This detail will be provided in a subsequent amendment.
144	[Ideal Construction] Bridging Connections?	Electrical Building No. 2 (7100)	This detail will be provided in a subsequent amendment.
145	[Ideal Construction] Note 1, A8004: Is the Owner or Architect going to do the Evaluation of the Exterior Envelope to further find potential air leakage issues?	Administration Building (8000) / A8004	At this time proposed work appears to be sufficient. Further testing may be conducted at a later date.
146	[Ideal Construction] What is the size of the Epoxy Terrazzo Floor tile?	Administration Building (8000)	24" x 24" closest to a "standard" size
147	[Ideal Construction] Note 3 & 1 (A8003/ A8004)- Exterior Envelope to be evaluated further to find potential air leakage issues with the exterior walls and windows. Is this in our scope? Please explain this note including the Spray Foam insulation requirements.	Administration Building (8000) / A8003 / A8004	Exterior wall evaluation is NOT in scope of work. Spray foam insulation requirements will be provided
148	[Ideal Construction] Library Note 4, sheet A8003 says to install shelving. Is this in our scope? If so, is there a spec or a detail?	Administration Building (8000) / A8003	Yes
149	[Ideal Construction] Note 13, A8003- Insulate Existing Columns- Please provide more information on this. It looks like most of the columns are incased in drywall partitions. Are we to demo the drywall and replace or is there other way to get to the columns? How are they to be insulated? Spray Foam or something else?	Administration Building (8000) / A8003	Access to columns can be through the ceilng plenums. Existing exposed steel structural members are to be insulated with spray foam material. If steel is not exposed, it does not need to be foam insulated
150	[Ideal Construction] Relocating any "IT" equipment is NOT in our scope, correct? Note 4, A8004	Administration Building (8000) / A8004	Correct. This will be performed by the Electrical/I&C subcontractor.