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ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
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ADDENDUM NO. 1

BROAD RIVER WWTP IMPROVEMENTS
For
GAFFNEY BOARD OF PUBLIC WORKS

SCIIP No. A-23-E002

KCI Project No. 412403030

Date: April 24, 2025

TO: ALL HOLDERS OF RECORD OF CONTRACT DOCUMENTS

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject the bidder to disqualification.

The following revisions and/or additions to the Drawings and Contract Documents are hereby made a part of same and shall be incorporated in the Work of the Contract the same as if originally included in the Construction Documents. This addendum modifies them as follows:

Questions and Clarifications:

1. Will there be an on-site Pre-Bid Meeting?

   Answer: Originally there was not one planned. However, a non-mandatory pre-bid meeting has been added and will be held on Thursday, May 8th, 2025, at 10:00 A.M. at the Broad River WWTP site (located at 100 Marietta St., Gaffney, SC 29340).

2. Can the bid opening date be pushed back?

   Answer: Yes, the bid opening date has been moved to May 20, 2025, at 2:00 PM.

Contract Documents and Specifications:

1. **00020 – Advertisement**

   A. In the first paragraph, change the Bid Opening date to **May 20, 2025** at 2:00 PM. The bid opening location will remain the same (210 East Frederick St., Gaffney, SC 29342).

   B. In the first paragraph, add the following sentence concerning an On-Site Pre-Bid Meeting.

   "A Non-Mandatory Pre-Bid Meeting will be held at the Broad River WWTP site (located at 100 Marietta St., Gaffney, SC 29340) at 10:00 A.M. on Thursday, May 8, 2025."

2. **09900 – Painting**

   A. Sherwin Williams has been added as an approved equal manufacturer for the painting materials. Replace Section 09900 (Painting) with the revised specification that is attached with this addendum.

End of Addendum No. 1

PART I - GENERAL

1.1 WORK INCLUDED

A. The contractor shall furnish all materials, labor, equipment, and incidentals required to provide a protective coating system for the surfaces listed herein and not otherwise excluded.

B. The work includes painting and finishing of interior and exterior exposed items and surfaces such as structural steel, miscellaneous metals, ceilings, walls, floors, doors, frames, transoms, roof fans, construction signs, guardrails, posts, fittings, valves, equipment, and all other work obviously required to be painted unless otherwise specified herein or on the drawings. The omission of minor items in the schedule of work shall not relieve the contractor of his obligation to include such items where they come within the general intent of the specification as stated herein.

C. The following items will not be painted:

1. Any code-requiring labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name or nomenclature plates.
2. Any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sinkages, sensing devices, motor and fan shafts, unless otherwise indicated.
3. Aluminum handrails, walkways, windows, louvers and grating unless otherwise specified herein.
4. Signs and nameplates.
5. Finish hardware.
6. Stainless steel angles, tubes, pipe, etc.
7. Products with polished chrome, aluminum, nickel, or stainless steel finish.
8. Plastic switch plates and receptacle plates.
9. Flexible couplings, lubricated bearing surfaces, insulation and metal and plastic pipe interior.
10. Sprinkler heads.

1.2 REFERENCES

A. SSPC - Steel Structures Painting Council.

B. Metal Ladder Manufacturer's Association - Specification for Ladders and Scaffolds.

C. UL Requirement for Ladders and Scaffolds.

1.3 QUALITY ASSURANCE

A. Workmanship shall be performed by skilled workmen thoroughly trained in necessary crafts and completely familiar with specific requirements and methods specified herein.

B. All materials shall be produced by a single manufacturer. Total paint system shall be from one manufacturer and no cross coating allowed between primers and finish coats.

1.4 SUBMITTALS

A. Submit manufacturer's printed literature and other data as required to certify compliance with requirements and systems specified herein.

B. Colors to be selected by Engineer, and indicated on schedule.

C. Samples:

1. Samples of each finish and color shall be submitted to the Architect/Engineer for approval before any work is started.
2. Such samples when approved in writing shall constitute a standard, as to color and finish only, for acceptance or rejection of the finish work.
3. Rejected samples shall be resubmitted until approved.

D. VOC Requirements: Submit manufacturer's certification that paints and coatings comply with Federal, State, and Local, whichever is more stringent, requirements for VOC (Volatile Organic Compound).

1.5 DELIVERY, HANDLING AND STORAGE

A. Deliver all material to site in original, new, unopened containers, labeled and bearing manufacturer's name and stock number, product and brand name, contents by volume for major constituents, instructions for mixing and reducing, and application instruction.

B. Provide adequate storage facilities designed exclusively for the purpose of paint storage and mixing. Facility area shall be located away from open flames, be well ventilated, and be capable of maintaining ambient storage temperature of no less than 45 degrees F.

C. Paint, coatings, reducing agents, and other solvents must be stored in original containers until opened; if not resealable, then must be transferred to UL approved safety containers. Provide proper ventilation, personal protection and fire protection for storage and use of same.

D. Comply with requirements set forth by Occupational Safety and Health Act, OSHA, for storage and use of painting materials and equipment.

1.6 EXTRA STOCK

A. Upon completion of work, provide owner with at least one gallon of each type and color of product used.

B. Containers shall be tightly sealed and clearly labeled for identification.

PART 2 - PRODUCTS

2.1 ACCEPTABLE SYSTEMS AND MANUFACTURERS

A. Materials specified are those that have been evaluated for the specific service. Products of the Tnemec Co. and the Sherwin Williams Company are listed to establish a standard of quality. Equivalent “or equal” materials of other manufacturers may be substituted by the contractor on written approval of the Engineer.

Local Field Tnemec Technical Support: Tnemec Company, 101 Rice Bent Way Suite 5 Columbia, SC 29229. Phone: (803) 736-1553 Email: TSE@tnemec.com

Local Field Sherwin Williams Support: Sherwin Williams, 3080 SC Highway 14, Greer, SC 29650 darryl.t.rzepka@sherwin.com 843-214-3265.

B. Requests for substitution shall include manufacturer's literature for each product giving the name, product number, generic type, descriptive information, solids by volume, recommended dry film thickness, certified test reports showing results to equal the performance criteria of the products specified herein, cost per gallon/unit and cost savings. No request for substitution shall be considered that will decrease film thickness or offer a change in the generic type of coatings specified. In addition, a list of five similar projects shall be submitted in which each product has been used and rendered satisfactory service for at least 5 years.

Requests for product substitution shall be made at least thirty (30) days prior to bid date.

Any material savings shall be passed to the owner in the form of a contract dollar reduction.

Manufacturer's color charts shall be submitted to the Owner at least 30 days prior to paint application. General contractor and painting contractor shall coordinate work so as to allow sufficient time (five to ten days) for paint to be delivered to the jobsite.

2.2 MATERIALS

A. Tnemec Company, Inc., North Kansas City, Missouri.
B. Sherwin Williams Company, Cleveland, Ohio
C. Or Approved Equal.

PART 3 - EXECUTION

3.1 INSPECTION

A. Thoroughly examine surface scheduled to be painted prior to commencing work. Report in writing to the Engineer any condition that may affect proper application and overall performance of coating system. Do not proceed with work until such conditions have been corrected. Commencing with work indicates acceptance of existing conditions and for responsibility for performance of applied coating.

3.2 PROTECTION

A. Extreme diligence shall be taken to ensure that vehicles, equipment, hardware, fixtures, materials, etc., are protected against paint spillage, overspray, etc. Such damages shall be corrected at no expense to Owner.
B. Surfaces not to be coated shall be masked, removed, or otherwise covered to protect against cleaning and coating application procedures and weather. Drop cloths shall be used to protect floor, walls, machinery, equipment, and previously coated surfaces.
C. Exercise care in erecting, bracing, handling, and dismantling staging and scaffolding, to avoid scratching or damaging walls, floors, equipment, etc.

3.3 SURFACE PREPARATION

A. Perform preparation and cleaning procedures in strict accordance with manufacturer's instructions for each substrate condition.

B. Ferrous metals (structural steel and miscellaneous metals) requiring shop or field priming shall be prepared as listed in PART 4 "Coating System Schedule" specified herein and listed for each individual coating system. All metal surfaces shall be cleaned prior to sandblasting to remove oil and grease present by following methods and procedures outlined in SSPC-SP1 Solvent Cleaning.

C. Surface preparation for field touch-up of ferrous metals shop-primed shall be as follows:

1. Immersion - Remove all oil, grease, dirt, dust and foreign matter from the surface. Weld slag, weld spatter, rough edges and sharp corners of weld seams shall be ground smooth. All rusted, abraded and unpainted areas shall be blast cleaned to a Near-White Finish as outlined in Steel Structures Painting Council's Specification SP-10.

2. Non-Immersion - Remove all oil, grease, dirt, dust and foreign matter from the surface. Follow cleaning with Steel Structures Painting Council's Specification SP-3 Power Tool cleaning.

D. Galvanized metals requiring paint (only as directed by Engineer) shall be cleaned by removing all oil, grease, dirt, dust and foreign matter by solvent cleaning in accordance with SSPC-SP1 prior to applying any finish.

E Concrete and concrete masonry surfaces shall be cleaned and free of oils, laitance, dust, dirt, loose mortar, and excess moisture. Structural cracks and defects shall be repaired. All surfaces must be completely dry prior to applying any coatings/paint.

F. Gypsum board (or drywall) surfaces shall be dry, flat, and free of dust, dirt, grease, oil, powdery residue, wax, soap and other contaminants.

3.4 TOUCH-UP OF SHOP APPLIED COATINGS

A. All shop applied coatings with manufacturer's standard paint and in non-immersion service, shall be touched-up with compatible barrier coating, Tnemec Series 135 Chembuild or Sherwin Williams Macropoxy 646 FC, able to receive specified topcoat(s). Notify the Engineer in writing of anticipated problems due to incompatible coating systems.

B. All shop applied coatings with specified primer as listed in PART 4 "Coating System Schedule" shall be touched up with same primer before any topcoat(s) are applied.

3.5 APPLICATION

A. No paint shall be applied when surrounding air temperature, as measured in the shade, is below 45 degrees F. No paint shall be applied when the temperature of the surface to be painted is below 40 degrees F. Paint shall not be applied to wet or damp surfaces, and shall not be applied in rain, snow, fog or mist, or when the relative humidity exceeds 85%. Paint shall not be applied when the substrate temperature is within 5 degrees of the dewpoint. Paint manufacturer's temperature guidelines must be followed.

B. No paint shall be applied when it is expected that the relative humidity will exceed 85% or that the air temperature will drop below 45 degrees F within 4 hours after the application of the paint.

C. Maintain proper ventilation in area of work to alleviate volatile solvents evaporating from coating materials.
D. All ingredients in any container of the coating materials shall be thoroughly mixed and shall be agitated often enough during application to keep the pigment suspended.
E. Should thinning be required use only the amounts specified by the coating manufacturer.
F. Application of coating shall be by brush, roller, mitt, or spray and in accordance with manufacturer's recommendations. All material shall be evenly applied to form a smooth, continuous, unbroken coating. Drips, runs, sags, or pinholes shall not be acceptable.
G. Provide proper application equipment, including ladders, scaffolding, masking materials, and tools to perform work. Ladders and scaffolding shall meet or exceed UL requirements and Metal Ladder Manufacturer's Association.
H. Meet all requirements set forth by Occupational Safety and Health Act, OSHA, for confined space.

3.6 SYSTEM INSPECTION AND TESTING

A. After application of each coating in the specified system and its surface has cured, measure its thickness with a properly calibrated Nordson Microtest Dry Film Thickness Gauge, or equivalent. Follow standard method for measurement of dry paint thickness with magnetic gauges as outlined in Steel Structures Painting Council's SSPC-PA2
B. Make as many determinations as needed to ensure the specified thickness values in each typical area. To all surfaces having less dry film thickness than specified, apply additional coat(s) at no extra cost to Owner to bring thickness up to specifications.
C. Structural metals in immersion service that receive a protective coating system shall be checked with a non-destructive holiday detector that shall not exceed 67 1/2 volts. All pinholes or defects shall be repaired in accordance with manufacturer's printed recommendations and then retested.
D. Masonry, drywall, or other non-metallic surfaces shall be continuously checked with wet-film thickness gauges during application to ensure proper dry film thickness will be attained. Also, square feet coverage needs to be monitored to verify proper coverage rates.
E. Painting contractor shall permit Engineer and/or paint & coating manufacturer (as requested by owner) to inspect his work for conformance to this specification. Owner reserves the right to reject all work that does not comply with this specification.

3.7 CLEAN-UP

A. Upon completion, painting contractor shall clean up and remove from site all surplus materials, tools, appliances, empty cans, cartons, and rubbish resulting from painting work. Site shall be left in neat, orderly condition.
B. Remove all protective drop cloths and masking from surfaces not being painted. Provide touch-up around same areas as directed by Engineer.
D. Remove all misplaced paint splatters or drippings resulting from this work.

PART 4 - COATING SYSTEM SCHEDULE

4.1 STEEL - STRUCTURAL, TANKS, PIPES AND EQUIPMENT

A. Immersion - Non-Potable Water

		Dry Film-Mils
Surface Preparation:	SSPC-SP10 Near White Blast Cleaning	
1st Coat:	Tnemec Series 66 Hi-Build Epoxoline	4.0 - 5.0
2nd Coat:	Tnemec Series 66 Hi-Build Epoxoline	5.0 - 6.0
		11.5 - 14.5
1st Coat:	Sherwin Williams Macropoxy 646 FC Epoxy	5.0 - 6.0
2nd Coat:	Sherwin Williams Macropoxy 646 FC Epoxy	5.0 - 6.0
		10.0 - 12.0

4.2 GALVANIZED STEEL - PIPE AND MISCELLANEOUS FABRICATIONS

A. Exterior/Interior Exposure (Non-Immersion)

		Dry Film-Mils
Surface Preparation:	SSPC-SP7 Brush-off blast. Exterior surfaces to be cleaned as required by manufacturer.	
1st Coat:	Tnemec Series 66 Hi-Build Epoxoline	4.0 - 5.0
2nd Coat:	Series 73 Endura-Shield	3.0 - 4.0
		7.0 - 9.0
1st Coat:	Sherwin Williams Macropoxy 646 FC Epoxy	4.0 - 5.0
2nd Coat:	Sherwin Williams Acrolon 7700 Gloss	3.0 - 4.0
		7.0 - 9.0

4.3 COLOR SYSTEM MATERIAL INDENTIFICATION

Water	**Generic Color**
Sewage	Gray

END OF SECTION