

CITY OF PALM BAY, FL

NRWTP VARIOUS STRUCTURAL REHABILITATIONS

In accordance with City's Master Agreement 36-0-2020 Dated July 28, 2020

May 8, 2024

**TASK ORDER NO. 24-07-WT
CITY PROJECT NO. 24WS05 & 24WS12**

SECTION I: BACKGROUND

The City of Palm Bay (City) has requested the engineering services of Wade Trim to assist with rehabilitating various structures and yard piping at the North Regional Water Treatment Plant (NRWTP) defined below. The following items will be included within the scope of this project:

- Demolition of the existing north and east walls of High Service Pump (HSP) Building No. 1, while not disrupting the existing structural columns and beams holding the roof in place and replacing them with new masonry walls and doors and windows to match existing.
- Installation of a new concrete slab at HSP Building No. 1 to match existing elevation. Work includes 3 new floor drains adjacent to each pump pad under each ARV and new base plates and grout connections on pump control panels #2 and #3. The existing footings will be analyzed to determine their adequacy for supporting the new wall and slab.
- Removal of exposed, unused electrical conduits in HSP Building No. 1 and replacement of the broken electrical box near the east doorway.
- Repainting of all interior and exterior walls at HSP Building No. 1.
- Removal and replacement of the existing roof membrane systems and flashing on HSP Buildings No. 1 & 2.
- Rehabilitation of the damaged support beam within the Transfer Pump Room at the WTP.
- Repair of one volatile organic compound (VOC) well pump pad at the WTP.
- Repair of the NRWTP Warehouse loading dock.
- Replacement of the existing 16-inch valve and connected asbestos concrete pipe on the west side of HSP Building No. 1.

The existing HSP Building No. 1, adjacent to the 0.5MG ground storage tank consists of a closed structure with a structural double tee beam roof, 2 double-door entrances, and 2 windows.

SECTION II: SCOPE OF WORK

Task 1 – 90% Design

- a) Kickoff Meeting: Wade Trim will lead an in-person project kickoff meeting with the City to review the project scope and introduce the project team members and their roles and responsibilities. Wade Trim's Project Manager and Structural Engineer will attend. The meeting will cover the overall project, project plans, City goals, scope, and schedule. In preparation for the meeting, Wade Trim will prepare a sign-in sheet and agenda for distribution to the meeting attendees. At the conclusion of the meeting, Wade Trim will prepare meeting notes to document the key meeting items and distribute the notes to all attendees electronically for feedback. The meeting will be followed by a site walk through to discuss the rehabilitation plans.
- b) 90% Drawings: Wade Trim will develop 90% design drawings. Drawings for the final submittal will be included as listed below.
- Cover
 - G-1 General Notes
 - G-2 Legend and Abbreviations
 - C-1 Existing Site Plan
 - C-2 Proposed Yard Piping Plan
 - C-3 Civil Details 1
 - C-4 Civil Details 2
 - S-1 Structural Notes and Legend
 - S-2 Photo Key Sheet
 - S-3 Demolition Plans and Photos
 - S-4 HSP Building Structural Elevations
 - S-5 HSP Building Structural Plans
 - S-6 HSP Roofing Support Details
 - S-7 Roofing Rehabilitation Plan
 - S-8 Roofing Rehabilitation Details
 - S-9 NRWTP Transfer Pump Room Beam Structural Repairs
 - S-10 VOC Well Pump Pad Repair
 - S-11 NRWTP Receiving Bay Repair
 - S-12 Structural Details 1
 - S-13 Structural Details 2
 - E-1 Electrical General Notes, Legend, and Abbreviations
 - E-2 HSP Building Electrical
 - E-3 Electrical Details
- c) 90% Specifications: Wade Trim will prepare the specifications package based on the 90% design.

- d) 90% Cost Estimate: Wade Trim will develop a Class 4 engineer's opinion of probable construction cost (EOPCC) based on the 90% drawings.
- e) 90% Review Meeting: Wade Trim will meet with the City staff two weeks after the conclusion of the 90% Design to review the submitted documents and discuss City comments. Wade Trim will compile the comments from the meeting into a comment log to be incorporated into the 100% design where appropriate.

Task 2 – 100% Design

- a) 100% Drawings: Wade Trim will update the drawings to a 100% level based on City comments received during the 90% review meeting.
- b) 100% Specifications: Wade Trim will update the specifications based on the 100% drawings for and City comments.
- c) 100% Cost Estimate: Wade Trim will update the EOPCC based on the 100% design drawings.
- d) 100% Review Meeting: Wade Trim will meet with the City staff two weeks after the conclusion of the 100% Design to review the submitted documents and discuss City comments. Wade Trim will compile the comments from the meeting into a comment log to be incorporated into the Final design where appropriate.

Task 3 – Final Design

- e) Final Plans: Wade Trim will finalize the drawings and provide a final Signed and Sealed Plan Set.
- f) Final Specifications: Wade Trim will finalize the specifications based on the Final Drawings and provide a final Signed and Sealed Specification Package.
- g) Final Cost Estimate: Wade Trim will finalize the cost estimate based on the final signed and sealed documents.

SECTION III: PROJECT REPRESENTATIVES

City of Palm Bay Utilities: Thomas Marinelli, PE
 321-952-3420
 thomas.marinelli@pbfl.org

Wade Trim: Tyler Davidek, PE
 810-360-9729
 tdavidek@wadetrim.com

SECTION IV: CITY'S RESPONSIBILITY

The City is responsible for the following items in order to ensure a successful and efficient design:

- Provide Site Access
- Provide requested data on the project
- Provide available record drawings

SECTION V: DELIVERABLES

The following deliverables will be provided in electronic format (PDF) unless otherwise requested:

Task 1 – 90% Design

- Kickoff Meeting Notes
- 90% Plans
- 90% Specifications
- 90% Cost Estimate

Task 2 – 100% Design

- 100% Plans
- 100% Technical Specifications
- 100% Cost Estimate

Task 3 – Final Design

- Signed and Sealed Bid Plans
- Signed and Sealed Bid Technical Specifications
- Final Cost Estimate

SECTION VI: PERMITTING

Wade Trim does not anticipate any permits associated with the design of this Task Order. No permitting effort from Wade Trim will be included as part of this Task Order. Contractor to obtain Palm Bay Building Permit.

SECTION VII: SCHEDULE

Work will begin within 7 days of notice-to-proceed (NTP) with the schedule as follows:

MILESTONE	WEEKS	From
Kickoff Meeting	1	NTP
Task 1 – 90% Design	7	Kickoff Meeting
Task 2 – 100% Design	4	90% Review Meeting
Task 3 – Final Design	2	100% Review Meeting

SECTION VIII: BASIS OF COMPENSATION

The fee for the scope of work described in Section II, shall not exceed a total lump sum fee of \$128,950.00 and shall not exceed the amounts shown in the table below for each specific task. The City shall periodically compensate Wade Trim a portion of the task fee based on mutually agreed upon percentages of completion of each task.

TASK	DESCRIPTION	FEE
1	90% Design	\$ 64,400.00
2	100% Design	\$ 43,250.00
3	Final Design	\$ 21,300.00
	TOTAL	\$ 128,950.00

At the direction of the City, Wade Trim may be requested to provide additional services. These additional services will be billed at the standard hourly billing rates on a negotiated Lump Sum basis.

SECTION IX: ACCEPTANCE

If the above scope and fees meet your approval, please indicate by your signature in the space provided below and return one signed copy which will constitute an "Agreement and Notice to Proceed" for the accomplishment of this work. The Master Agreement 36-0-2020, dated July 28, 2020, supersedes the purchase order terms and conditions.

WADE TRIM, INC.

CITY OF PALM BAY, FLORIDA



William Harrington
Projects Director

George Barber, CPPO, CPPB
Chief Procurement Officer

5/8/24

Date

Date



Project: NRWTP Various Structural Rehab
Client: PBUD
Prepared By: Tyler Davidek
Date: May 2, 2024

Project Cost
Estimating Sheet

TO# 24-07-WT

TASKS		Task 1 80% Design HOURS \$	Task 2 100% Design HOURS \$	Task 3 Final Design HOURS \$	Task 4 HOURS \$	Task 5 HOURS \$	Task 6 HOURS \$	Task 7 HOURS \$	Task 8 HOURS \$	Task 9 HOURS \$	TOTAL HOURS \$	OTHER DIRECT COSTS
CLASSIFICATION	RATE											
Principal/Associate	\$ 250.00	37 \$9,250.00	26 \$6,500.00	12 \$3,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	75 \$18,750.00	Subconsultants Aerial Photos Sole Eng.
Senior Technical Professional	\$ 225.00	54 \$12,150.00	38 \$8,550.00	24 \$5,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	116 \$26,100.00	Survey
Professional Engineer 2	\$ 150.00	204 \$30,600.00	124 \$18,600.00	54 \$8,100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	382 \$57,300.00	Mechanical Electrical
Technician 4	\$ 100.00	124 \$12,400.00	98 \$9,800.00	48 \$4,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	268 \$26,800.00	Environmental Stormwater Management Permitting
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Sub Total \$0.00
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Direct Cost
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	CADD
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Computers
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Equipment
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Photocopies
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Color Copies
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Graphics
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Computer
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Travel
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Scanner
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	OCE Printer
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Sub Total \$0.00
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	OTHER DIRECT COSTS TOTAL \$0.00
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Labor Multiplier (=1 for billing rate schedule) 1.00
	\$ -	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	TOTAL DIRECT LABOR \$ 128,950.00
TOTAL		419 \$64,400.00	284 \$43,250.00	138 \$21,300.00	0 \$ -	0 \$ -	0 \$ -	0 \$ -	0 \$ -	0 \$ -	841 \$128,950.00	TOTAL COST \$128,950.00