



HCFMO

Harris County Fire Marshal

Laurie L. Christensen
Fire Marshal

October 5, 2021

Honorable Commissioners Court
Lina Hidalgo
County Judge
Rodney Ellis
Commissioner, Precinct 1
Adrian Garcia
Commissioner, Precinct 2
Tom Ramsey
Commissioner, Precinct 3
Jack Cagle
Commissioner, Precinct 4

Subject: 10122021-001

We respectfully request Commissioner's Court approval of the Final Investment Memo for the Concrete Paving for Training Prop Expansion project for \$65,000 and request for approval of commercial paper funding for the Harris County Fire Marshal the project in the amount of \$65,000. Budget Management has reviewed and approved this request.

Respectfully Submitted,

A handwritten signature in blue ink, reading "Laurie L. Christensen".

Laurie L. Christensen CFPS, FM, FEMT
Fire Marshal

FOR INCLUSION ON COMMISSIONER'S COURT AGENDA- OCTOBER 12, 2021



HARRIS COUNTY

CIP Final Investment Memo

10/12/2021

Project Name: Concrete Paving for Training Prop Expansion

Precinct(s): Countywide

Investment Area: Justice and Safety

Managing Entity: Harris County Fire Marshal **Add'l Investment Requested:** \$65,000

Requesting Entity: Harris County Fire Marshal **Total Estimated Cost:** \$65,000

Requesting Entity Head: Rodney Reed, Assistant Chief

Project ID (if applicable):

Vendor Legal Name (if applicable): AJB Construction, Inc. & Big Z Lumber Co.

MWDBE Participation (if applicable):

Request Summary:

..title

Request for approval of Final Investment Memo for the Concrete Paving for Training Prop Expansion project for \$65,000 and request for approval of commercial paper funding for the Harris County Fire Marshal the project in the amount of \$65,000.

..end

Project Description:

On May 11th, 2021, Commissioners Court approved the Office of Management & Budget's (OMB) recommendations on Rollover requests. Of the \$69.4 million in requests, OMB recommended that the concrete paver project for the 2318 Atascocita Road Training Field goes through the CIP process.

The Harris County Fire Marshal department is requesting \$65,000 to pave 3 areas of the 2318 Atascocita Road Training facility with concrete, totaling about 6,273 square feet. The project was not approved to use the Federal Urban Areas Security Initiative (UASI) fund, but it is necessary to provide concrete support for the training prop expansion project.

Justification:

Currently, HCFMO does not have the available or appropriate infrastructure (concrete flooring) to support the donated props and funded UASI training prop (\$159,300) to ensure these simulators are safe for first responder training and support the longevity of the props themselves. The current available flooring is crush asphalt that HCFMO has received through various donations, this flooring cannot



support the identified props. Additionally, the UASI training prop funding request was submitted prior to the modification of FY22 rollover process.

Installing concrete ground pads in the confined space training area, fire training building, and pipeline/infrastructure training area is necessary as part of the 2318 Atascocita Road Training Field project. This training field will allow for the establishment of 3 training projects to train Fire/EMS/Law Enforcement/HazMat. Each training prop is expected to bring in an estimated 5-10 classes and allow for 350-500 first responders in the region to be training on hands-on simulators. The completion of this project is essential to support the growing threats faced by first responders in our evolving industrial area and in response to natural and man-made disasters, HCFMO must provide realistic training props and education.

This project supports the following Strategic Objectives:

1. (G1)The Fire Marshal's Office will strive to serve Harris County by providing comprehensive fire/life safety initiatives, investigation, training, and emergency response services for a safer community.
2. (G4)The Fire Marshal's Office will pursue additional ways to provide incident management and operational training to industry and first responders ensuring they can respond to and quickly mitigate emergencies.
3. (SO 17) Improve existing facilities through the construction of at least one (1) training simulator or service module per year.
4. (SO 19) Maintain a minimum of 8,000 student contacts per year in the delivery of on-site and off-site training services.

The success of the project can be measured through the following performance metrics:

1. Increase in the number of first responder organizations utilizing the enhanced training props stationed on the funded concrete.
2. Monitoring of the maintenance costs of the training props stationed on the funded concrete

Project Scope:

The project is to construct three (3) concrete pads to serve as a base for three (3) training props to be installed to assist the HCFMO Training Division in the delivery of fire and hazmat training. The key task to be conducted is the delivery of safe, realistic training to better prepare first responders to meet the growing expectations of industrial incident-based response. Each of these training props will enhance the ability to bring additional personnel to the training field. Below are the purposes for each concrete pad and specific requirements:

Purpose:

1. 3600 SQ FT: Confined Space Training Prop



- a. Through industry partnership, HCFMO was given training equipment to develop a confined space training prop in order to better train first/industry responders.
- b. HCFMO does not currently have a confined space training prop and expects to see an increase in training field usage, exact numbers are unclear at this time due to current pandemic.
2. 405 SQ FT: Fire Training Building Expansion
 - a. This expansion will allow for additional firefighting space for portable props to be placed adjacent to our existing fire training building to provide the opportunity for first responders to manage interior and exterior firefighting operations simultaneously.
3. 2268 SQ FT: Pipeline/Infrastructure Training Prop
 - a. HCFMO sought and was approved for \$159,300 in funding from UASI for a fully interactive training prop to simulate pipeline and industrial infrastructure incidents. This valve and piping array will increase the operational knowledge and help to minimize the duration of an industrial incident.

The exact project details are:

1. Approx. 90'x40' (3600 SQ FT) concrete pad
 - a. Install #4 rebar throughout at 16" apart
 - b. Minimum 4-5" thickness
 - c. 5000 PSI minimum
2. Approx. 15'x27' (405 SQ FT) concrete pad
 - a. Install #4 rebar throughout at 16" apart
 - b. Minimum 4-5" thickness
 - c. 5000 PSI minimum
3. Approx. 57'x33' (2,268 SQ FT) concrete pad
 - a. Install #4 rebar throughout at 16" apart
 - b. Minimum 4-5" thickness
 - c. 5000 PSI minimum

Alternatives and Engagement:

No sufficient alternative exists to support the operations, weight, and intended use of these training simulators.



HARRIS COUNTY

CIP Final Investment Memo

October 12, 2021

Anticipated Project Expenditures and Timeline:

| Scope of Work | Estimated Cost* | Estimated Completion |
|---|-----------------|-------------------------|
| 3 x Concrete Pad (Labor & Equipment) | \$27,000 | 30 days after PO issued |
| 3 x Concrete Pad (Parts, Materials, and Supplies) | \$38,000 | Quarter 4 2021 |
| Total | \$65,000 | |

HCFMO worked with Harris County Engineering and Purchasing to identify county approved vendors that have already bid on continuous service to complete this project. The finished product will be maintained by the agency, there will not be any additional operating impact nor expenses.

Project timeline for the laying of concrete will begin two weeks after the receipt of funding and will be completed within 30 days.

Project needs to be completed by February 2022 when the \$159,300 UASI funded training prop is expected to come in.

The project does not bear any risk due to the simplicity of the project.

Previous Court Action: This is a rollover project, which was approved to go through the CIP process 5/11/2021

Commercial Paper Requested: \$65,000

Department Approval by: Rodney Reed, Assistant Chief 9/29/2021

OMB Approval by: Amiel Chen, 9/30/2021



Commercial Paper Funding Request

<For most projects request 3-6 months of commercial paper>

Request for Court Action: Initial Commercial Paper Funding Request

Department: Fire Marshal

Type of Request: Commercial Paper

Project Name: Concrete Paving for Training Prop Expansion

CP Series Description: Commercial Paper Series D can be used for (1) construction of public works, (2) the purchase of automobiles, equipment and machinery, including computers, materials and supplies for the operation of the County's precincts and departments (3) Professional services, including services provided by engineers, architects, attorneys, auditors, financial advisors, and fiscal agents, in connection with the contractual obligations described in (1) and (2).

Commercial Paper is being requested for the Concrete Paving for Training Prop Expansion project and is expected to be repaid within the next three fiscal years either through bonds, budgetary means or pay-as-you-go sources.

HB 1869 compliance confirmed by: Michael James, Assistant County Attorney, September 22, 2021

Financial Management contact(s): Amy Perez, Director, Financial Management, Office of Management and Budget

Request Summary: Request for approval of commercial paper funding for Fire Marshal for the Concrete Paving for Training Prop Expansion in the amount of \$65,000 contingent upon project approval in the amount of \$65,000.

Big Z Lumber Co.
7225 Cullen
P.O. Box 14228
Houston, Texas 77221
PHONE: (713) 748-1730

PAGE NO 1

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|-----------------|----------------|------------------------|-------------------|---------------|---------------|---------------------|
| CUST NO: | JOB NO: | PURCHASE ORDER: | REFERENCE: | TERMS: | CLERK: | DATE / TIME: |
| 9805 | 000 | . | | NET 10TH | AS | 8/30/21 6:18 |

TERMINAL: 559

SOLD TO:

HARRIS COUNTY FACIL-PROP MGMT
AUDITORS OFFICE ACTS PAYABLE
1001 PRESTON SUITE 800
HOUSTON TX 77002

SHIP TO:

HC CONTRACT 210084
PROJECT #84022
2310 ATASCOSITA RD

EXP. DATE: 8/28/21

TAX: 002 CHARGE SALES NON TAXA

ESTIMATE: 241963

| LINE | SHIPPED | ORDERED | UM | SKU | DESCRIPTION | SUGG | UNITS | PRICE/ | PER | EXTENSION |
|------|---------|---------|----|----------|----------------------------|------|-------|--------|-----|-------------|
| 1 | | 113 | EA | YARD | 3500 PSI CONCRETE | | 113 | 233.88 | /EA | 26,428.44 N |
| 2 | | 900 | EA | 12R | 1/2"X20' REBAR | | 900 | 6.49 | /EA | 5,841.00 N |
| 3 | | | | | 150/UNIT | | | | | |
| 4 | | 20 | EA | 10416T2 | 1X4 16 #2 TREATED | | 20 | 9.88 | /EA | 197.60 N |
| 5 | | 40 | EA | 10616T2 | 1X6 16 #2 TREATED | | 40 | 14.48 | /EA | 579.20 N |
| 6 | | 36 | EA | SSAND | YARDS STABILIZED SAND | | 36 | 52.00 | /EA | 1,872.00 N |
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| 9 | | 3 | EA | TIEWIRE | 3-1/2# COIL TIE WIRE 340' | | 3 | 5.99 | /EA | 17.97 N |
| 10 | | 900 | EA | XXXX | 1/2 PLASTIC SLEEVES 5' | | 900 | 1.85 | /EA | 1,665.00 N |
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REPRINT

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| TAXABLE | 0.00 |
| NON-TAXABLE | 37276.40 |
| SUBTOTAL | 37276.40 |

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| TAX AMOUNT | 0.00 |
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| TOTAL | 37276.40 |
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TOT WT: 1048.58

X _____
Received By

AJB CONSTRUCTION, INC.

28211 LONGSPUR DR.

KATY, TX 77494

(832) 449-2587

jc.ajbconstruction@gmail.com

Estimate

| Date | Estimate # |
|-----------|------------|
| 8/25/2021 | 3406 |

| Name / Address |
|--|
| HARRIS COUNTY FPM JIM JACOBS 1310 PRAIRIE ST., 13TH FLOOR HOUSTON, TX 77002 |

| Project | | | | | |
|----------------------------|--|--------------|-----|------|-------|
| 84022 - HC CONTRACT 210084 | | | | | |
| Item | Description | Qty | U/M | Cost | Total |
| | <p>HARRIS COUNTY FIREMARSHALL'S TRAINING FACILITY 2310 ATASCOCITA ROAD HUMBLE, TX 77396</p> <p>UNDER THE DIRECTION OF HARRIS COUNTY, UNDER CONTRACT NUMBER 210084, AJB CONSTRUCTION, INC. WILL SUPPLY ALL PERSONNEL, EQUIPMENT, SCHEDULING, PLANNING AND REPORTING NECESSARY TO:</p> <p>PROVIDE LABOR AND MATERIAL SERVICES TO POUR (3) CONCRETE PADS AT TRAINING FACILITY LOCATIONS</p> <p>SECTION (1) - APPROX. 90' X 40' (3600 SQ FT) - PREP AREA FOR CONSTRUCTION AND INSTALL PROPER BARRICADES - SCRAPE NECESSARY LANDSCAPING - FORM AREA AND INSTALL #4 REBAR THROUGHOUT AT 16" APART - FORM TO ALLOW FOR MINIMUM 4-5" THICK CEMENT POUR - POUR 5000 PSI MINIMUM CONCRETE - PROVIDE CEMENT SAMPLE FOR TESTING - FINISH CONCRETE TO SMOOTH SURFACE, MATCH EXISTING - ALLOW MINIMUM (7) DAYS FOR CONCRETE TO CURE BEFORE ANY TRAFFIC - CLEAN ALL CONSTRUCTION RELATED DEBRIS AND MATERIALS - ALL WORK TO BE PERFORMED DURING REGULAR BUSINESS HOURS</p> <p>SECTION (2) - APPROX. 15' X 27' (405 SQ FT) - PREP AREA FOR CONSTRUCTION AND INSTALL PROPER BARRICADES - SCRAPE NECESSARY LANDSCAPING</p> | | | | |
| | | Total | | | |

Customer Signature

AJB CONSTRUCTION, INC.

28211 LONGSPUR DR.

KATY, TX 77494

(832) 449-2587

jc.ajbconstruction@gmail.com

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| Item | Description | Qty | U/M | Cost | Total |
| | <ul style="list-style-type: none">- FORM AREA AND INSTALL #4 REBAR THROUGHOUT AT 16" APART- FORM TO ALLOW FOR MINIMUM 4" THICK CEMENT POUR- POUR 5000 PSI MINIMUM CONCRETE- PROVIDE CEMENT SAMPLE FOR TESTING- FINISH CONCRETE TO SMOOTH SURFACE, MATCH EXISTING- ALLOW MINIMUM (7) DAYS FOR CONCRETE TO CURE BEFORE ANY TRAFFIC- CLEAN ALL CONSTRUCTION RELATED DEBRIS AND MATERIALS- ALL WORK TO BE PERFORMED DURING REGULAR BUSINESS HOURS SECTION (3) <ul style="list-style-type: none">- APPROX. 57' X 33' (2268 SQ FT)- PREP AREA FOR CONSTRUCTION AND INSTALL PROPER BARRICADES- SCRAPE NECESSARY LANDSCAPING- FORM AREA AND INSTALL #4 REBAR THROUGHOUT AT 16" APART- FORM TO ALLOW FOR MINIMUM 4" THICK CEMENT POUR AND PREP FOR POSSIBLE DROP- POUR 5000 PSI MINIMUM CONCRETE- PROVIDE CEMENT SAMPLE FOR TESTING- FINISH CONCRETE TO SMOOTH SURFACE, MATCH EXISTING- ALLOW MINIMUM (7) DAYS FOR CONCRETE TO CURE BEFORE ANY TRAFFIC- CLEAN ALL CONSTRUCTION RELATED DEBRIS AND MATERIALS- ALL WORK TO BE PERFORMED DURING REGULAR BUSINESS HOURS | | | | |
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| 82 | LABOR - FOREMAN | 80 | hr | 48.00 | 3,840.00 |
| 83 | LABOR - EXCAVATOR OPERATOR | 32 | hr | 30.00 | 960.00 |
| 11 | MINI EXCAVATOR | 1 | wk | 1,017.50 | 1,017.50 |
| 51 | SKID STEER W/ BUCKET, AUGER, HYDRAULIC AUXILIARY ATTACHMENT | 1 | wk | 2,403.50 | 2,403.50 |
| 89 | SKID STEER OPERATOR | 40 | hr | 48.00 | 1,920.00 |
| 97 | LABOR - UNSKILLED LABOR | 320 | hr | 21.40 | 6,848.00 |
| 54 | 14 CY TANDEM DUMP TRUCK | 2 | day | 951.50 | 1,903.00 |
| 90 | DUMP TRUCK OPERATOR | 24 | hr | 26.40 | 633.60 |
| 39 | BACKHOE W/ LOADER | 1 | wk | 1,707.20 | 1,707.20 |
| REL... | TOOL TRUCK (PER DAY) | 4 | | 680.00 | 2,720.00 |
| REL... | TRAFFIC CONTROL/ SIGNAGE | 1 | | 1,350.00 | 1,350.00 |
| REL... | CONCRETE PUMP | 1 | | 1,620.00 | 1,620.00 |
| | | Total | | | |
| | | \$26,922.80 | | | |

Customer Signature _____

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P.O. Box 14228
Houston, Texas 77221
PHONE: (713) 748-1730

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