

RESOLUTION NO. R-2018-15

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BASTROP, TEXAS AWARDED A CONTRACT TO MWM DESIGN GROUP FOR DESIGN, BIDDING, AND CONSTRUCTION PHASE SERVICES FOR THE STATE PARK TRAIL PROJECT, IN AN AMOUNT NOT EXCEED \$172,905.75 (ONE HUNDRED SEVENTY-TWO THOUSAND, NINE HUNDRED FIVE DOLLARS AND SEVENTY-FIVE CENTS) WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY; AS ATTACHED IN EXHIBIT A; AUTHORIZING THE CITY MANAGER TO EXECUTE ALL NECESSARY DOCUMENTS; PROVIDING FOR A REPEALING CLAUSE; AND ESTABLISHING AN EFFECTIVE DATE.

WHEREAS, The City of Bastrop has received grant funding to help cover the costs of the State Park Trail Project; and

WHEREAS, The City of Bastrop is responsible for funding the costs related to the design of the project; and

WHEREAS, The City of Bastrop conducted a competitive procurement process in accordance with state law and the City's purchasing policy; and

WHEREAS, The City Council has appointed the City Manager as the Chief Administrative Officer of the City; and

WHEREAS, The City Manager is responsible for the proper administration of all affairs of the City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BASTROP, TEXAS:

Section 1: That the City Manager is hereby authorized to execute a contract to MWM Design Group to provide design, bidding, and construction phase services required to complete the State Park Trail Project in an amount not to exceed \$172,905.75 (one hundred seventy-two thousand, nine hundred five dollars and seventy-five cents) without prior written approval from the City Manager (Attached as Exhibit A).

Section 2: That the City Council of the City of Bastrop has found MWM Design Group to be qualified to perform the required scope of work.

Section 3: All orders, ordinances, and resolutions, or parts thereof, which are in conflict or inconsistent with any provision of this Resolution are hereby repealed to the extent of such conflict, and the provisions of this Resolution shall be and remain controlling as to the matters resolved herein.

Section 4: That this Resolution shall take effect immediately upon its passage, and it is so resolved.

DULY RESOLVED AND ADOPTED by the City Council of the City of Bastrop this 13th day of March, 2018.

APPROVED:



Connie B. Schroeder, Mayor

ATTEST:



Ann Franklin, City Secretary

APPROVED AS TO FORM:



Erin Higginbotham, City Attorney

**SCOPE OF SERVICES
DESIGN, BIDDING AND CONSTRUCTION PHASE SERVICES**

**CITY OF BASTROP
BASTROP STATE PARK TRAIL**

The City of Bastrop (City) requested a proposal for professional design, bidding, and construction phase services for the Bastrop State Park Trail Project. The proposed trail is anticipated to have a concrete surface with consideration for portions with decomposed granite surfaces and will be generally ten feet wide for approximately one mile on Chestnut Street (SH21) with approximately 450 feet being an elevated trail with handrail. The limits of the trail are from the end of existing sidewalk just west of SH 95 to the Bastrop State Park.

After an initial evaluation and discussions with City staff and TxDOT, MWM DesignGroup (MWM) proposes implementing a field engineering approach. Exhibits with either aerial or planimetric backgrounds will be prepared to convey the approximate proposed trail locations and a project manual including appropriate specifications and details will be prepared prior to advertisement with detailed design performed during the construction phase.

A detailed description of the scope of services for Design, Bidding, and Construction Phases is presented below.

SCOPE OF SERVICES

Task 1: Project Management

MWM will provide status reports and monthly invoices to cover work completed to date. The status report will summarize work completed, the work scheduled to be completed, and identify any outstanding issues or decisions that must be resolved by City staff or the project team.

Task 2: ROW Survey

MWM will perform the following survey services:

1. Establish horizontal control as necessary to perform survey. Control shall be established based on State Plane, Central Zone NAD 83 (2011).
2. Field stake approximate location of 3,250' of existing south ROW line of Chestnut Street (SH 21) beginning at the east line of SH 95 and extending to the east to the west line of Loop 150. Survey shall also include locating sufficient ROW monumentation, obtaining and reviewing available maps and plats identified from Bastrop Central Appraisal District and TxDOT records and performing calculations

and analysis to re-establish ROW line. Points shall be set on an approximate 200' interval and will consist of 60d nail with guard stake and lath.

3. Provide a sketch showing data outlined above.

Task 3: Geotechnical Coordination

MWM will coordinate with Arias & Associates, Inc. (Arias) for a geotechnical investigation within the vicinity of the proposed elevated walkway. A detailed scope of services to be provided by Arias can be found in Attachment B of this Scope of Services.

Task 4: Structural Engineering Coordination

MWM will coordinate with PE Structural to provide detailed structural design of details to be utilized for the installation of the elevated sidewalk and associated support structure (anticipated to be piers). A detailed scope of services to be provided by PE Structural can be found in Attachment C of this Scope of Services.

Task 5: Environmental Services Coordination

MWM will coordinate with ACI Consulting to provide environmental review and permitting services, including Houston Toad Habitat Assessment and Effects Analysis and coordination with USFWS based on a "no effect" determination for the Houston Toad and critical habitat. A detailed scope of services to be provided by ACI Consulting can be found in Attachment D of this Scope of Services.

Task 6: Exhibits for Field Engineering

MWM will perform site assessments and provide exhibits, with the approximate proposed trail location, that will be submitted for TxDOT approval to construct in their ROW. The exhibits are anticipated to be drawn to scale and have aerial or planimetric backgrounds. They will provide general horizontal locations, finished slope requirements, and reference type of trail construction (on grade or suspended). In addition, the exhibits are anticipated to be included as part of the project manual to assist a contractor in bidding the field engineered project.

Task 7: Information Node Planting Plan

MWM anticipates up to four informational nodes consisting of benches and foundations for informational signs along the trail that will be located and configured during construction and will be field engineered. An information node planting plan that can be applied to any or all of the nodes will be provided during the design phase. The planting plan is anticipated to provide plant species, spacing, soil preparation requirements, and landscape details to support implementation

and installation of the plan. The plan is anticipated to be drawn to scale and have general backgrounds.

Task 8: Contract Document Update, Bid Document Preparation Assistance, and Technical Specification Selection

MWM will modify the City's standard contract documents (ASCE/EJCDC Standards) to accommodate the inclusion of the exhibits described in tasks 6 and 7 above in lieu of detailed designed plans and to incorporate Field Engineering during construction.

MWM will select appropriate and readily available technical specifications for inclusion in the project manual.

Task 9: Design Phase Submittals and Meetings

MWM anticipates providing draft submittals and an opinion of probable cost for the City's review and comment at 30%, 90%, and 100% milestones. The draft submittals are anticipated to include the structural designs for the suspended sidewalk, exhibits for field engineering, updated front end documents, technical specifications, and standard details (including standard traffic control details). Each submittal will be provided in pdf format and the 100% submittal will also be provided in digital CAD format. The 30% and 90% submittals are both anticipated to be followed by a meeting to discuss comments and the status of the overall project. Two (2) review/status meetings have been included in this scope of services.

Task 10: TxDOT Coordination

MWM will coordinate with TxDOT for acquisition of approval to construct the trail in TxDOT ROW and anticipates a Multi-Use Agreement (MUA) to establish maintenance responsibility of the trail. MWM will also coordinate with TxDOT to finalize the Advance Funding Agreement for the Surface transportation Program Metropolitan Mobility (STPMM). MWM anticipates attending up to two coordination meetings with TxDOT, in addition to email and phone communication, to accomplish these tasks.

Task 11: RAS Coordination

MWM will contract with Altura Solutions and coordinate with them for the project registration with TDLR and plan review. A detailed scope of services to be provided by Altura Solutions can be found in Attachment E of this Scope of Services.

Task 12: Bidding Phase Services

MWM will attend the Pre-Bid Conference planned and hosted by the City. MWM will also respond to questions from prospective contractors and shall issue up to two (2)

addenda as necessary to further explain or clarify the intent of the construction documents. MWM will provide a bid tab and review the three apparent low bids. MWM will check references and make a recommendation to the City concerning the award of the construction contract based on this review.

Task 13: Construction Phase Services

MWM will provide construction phase services as described below:

1. MWM will attend the Pre-Construction Meeting planned and hosted by the City's inspector for the project.
2. MWM will review Shop Drawings and other submittals provided by the Contractor in accordance with the Construction Contract Documents.
3. MWM will provide responses to Requests for Information (RFI) submitted by the Contractor as necessary to clarify the intent of the construction documents.
4. MWM will assist with preparing change orders as necessary to address changed conditions.
5. MWM will attend monthly construction meetings to provide input to the project. It is anticipated that a total of six (6) meetings will be required. Meetings beyond this number will be considered as an additional service.
6. In addition to the construction meetings, MWM will perform Field Engineering site visits to observe and direct the contractor regarding specific details of the sidewalk construction. The Field Engineering site visits are anticipated to be performed, on average, three days per week for the duration of the construction. The site visits that are anticipated to last 1.5 hours (plus 1.5 hours travel).
7. MWM will coordinate with PE Structural to respond to RFIs and provide up to three (3) site visits related to the structural components of the suspended sidewalk portion of the project.
8. Record drawings will not be provided for field engineered trails.

EXCLUDED SERVICES

Services that are not provided under this Agreement specifically include, but are not limited to:

Preparation of detailed plans and/or profiles for the proposed trail, establishing control on State Plane basis; re-establishing boundary lines of intersecting/adjacent tracts along existing ROW; obtaining title commitments or title and easement

report(s); topographic survey or surveys to obtain vertical data; location of surface improvements; tree survey; research and mapping of underground utilities; survey in support of geotechnical investigation services provided by others; survey in support of SUE services provided by others; surveys in support of environmental surveys performed by others; construction phase surveying and other services or expenses which may become necessary for the completion of this project but which are not reasonably anticipatable at this time. Such services may be performed as Additional Services to this Agreement, if authorized by the City.

SCHEDULE

- 90% Design Submittal (project manual) will be provided 9 weeks after NTP
- 100% Design Submittal will be provided 2 weeks after receipt of 90% comments and 90% comment review meeting
- Bidding Phase is anticipated to last 3 months
- Construction Phase is anticipated to last 10 months

SCHEDULE OF COMPENSATION

Design and Bidding Phase Services, Tasks 1-12 described above, will be provided on a Lump Sum basis for an amount of \$86,790.75.

Construction Phase Services, Task 13 described above, will be provided on a Time an Materials Basis with an amount not to exceed of \$77,565.00 based on the labor rates indicated in the detailed fee breakdown included as Attachment A.

Task Description	Deliverable	Budget
Design and Bidding Phases (Lump Sum)		
Task 1: Project Management		\$4,940.00
Task 2: ROW Survey	Flagging on ROW line	\$10,100.00
Task 3: Geotechnical Coord		\$780.00
Task 4: Structural Engineering Coord		\$780.00
Task 5: Environmental Services Coord		\$780.00
Task 6: Exhibits for Field Engineering	Exhibits for TxDOT and Manual	\$5,080.00
Task 7: Information Node Planting Plan		\$4,030.00
Task 8: Contract Doc Update and Manual		\$6,350.00
Task 9: Design Phase Submittals and Meetings	90%/100% Trail Exhibit, Structural Details, Updated Front- End, Tech Specs	\$2,640.00
Task 10: TxDOT Coordination		\$3,200.00
Task 11: RAS Coordination		\$390.00
Task 12: Bidding Phase Services	addenda, award recommendation	\$1,240.00
Task Subtotal		\$40,310.00
Subconsultants (with 5% markup)		
Geotechnical - Arias (Includes \$5,000 in contingency items)	<i>Geotech report and recommend.</i>	\$14,579.25
Structural - PESC	<i>Structural Design Details</i>	\$22,575.00
Environmental - ACI	<i>Enviro. Investigation</i>	\$15,387.75
RAS - Altura	<i>RAS Registration and Review</i>	\$2,388.75
Subconsultant Total		\$54,930.75
Reimbursable Expenses (0% markup)		
Mileage		\$100.00
Reimbursable Expenses Total		\$100.00
Design and Bidding Phase Total (Lump Sum)		\$95,340.75
Construction Phase Services (Hourly)		
Task 5: Construction Phase Services (incl. Field Engineering)		\$67,865.00
Task Subtotal		\$67,865.00
Subconsultants (with 5% markup)		
Structural - PESC		\$6,300.00
Subconsultant Total		\$6,300.00
Reimbursable Expenses (0% markup)		
Mileage		\$3,400.00
Reimbursable Expenses Total		\$3,400.00
Construction Phase Total (Hourly)		\$77,565.00
Project Total		\$172,905.75

ATTACHMENTS

- Attachment A: Construction Phase Fee Breakdown
- Attachment B: Arias & Associates, Inc. Detailed Scope of Services
- Attachment C: PE Structural Detailed Scope of Services
- Attachment D: ACI Consultants Detailed Scope of Services
- Attachment E: Altura Solutions Detailed Scope of Services

LAND SURVEYING

Complaints on the land surveying services provided by MWM DesignGroup can be directed to the Texas Board of Professional Land Surveying, 12100 Park 35 Circle, Building A, Suite 156, Austin, Texas 78753, (512) 239-5263. MWM DesignGroup TBPLS Firm Registration No.: 10065600.

TEXAS BOARD OF ARCHITECTURAL EXAMINERS

The Texas Board of Architectural Examiners, Hobby Building, 333 Guadalupe, Suite 2-350, Austin, Texas 7870, telephone (512) 305-9000, has jurisdiction over individuals licensed under the Architectural Registration Law, Texas Civil Statutes, Article 249a.

This proposal is valid for a period of 60 days from date of proposal. If you concur, please include this proposal as part of the task order for the above referenced project.

Approved:



Julia Harrod, P.E.
President

February 20, 2018

Date

MWM DesignGroup
305 E Huntland Dr., Suite 200
Austin, Texas 78752

ATTACHMENT A

City of Bastrop												26-Oct-17
Bastrop State Park Trail	Principal	Licensed	Licensed	Licensed	Eng / Arch	Eng / Arch	Sr Tech /				Subtask	Subtask
	Licensed	Prof III /	Prof II /	Prof I /	Support	Support	CAD	Tech	Clerical		Subtotal	Subtotal
MWM F Project: F18-002	Prof IV	Sr PM	PM	PM	Staff II	Staff I	Manager				Hours	Costs
	Billing Rate per Hour	\$ 260.00	\$ 195.00	\$ 155.00	\$ 130.00	\$ 115.00	\$ 90.00	\$ 110.00	\$ 95.00	\$ 60.00		
Basic Construction Phase Services Task Description												
Task 5: Construction Phase Services (incl. Field Engineering)												
Pre-con meeting		3									3	\$ 585.00
Shop Drawing Review		6				12					18	\$ 2,550.00
RFI Responses		6				6					12	\$ 1,860.00
Change orders		2				2					4	\$ 5,000.00
Monthly Construction Meetings (6)		18	6								24	\$ 4,440.00
Field Engineering		270									270	\$ 52,650.00
Coordinate with PESC		4									4	\$ 780.00
BASIC CONSTRUCTION PHASE SERVICES SUBTOTAL		0	309	6	0	20	0	0	0	0	335	\$ 67,865.00
Subconsultant Expenses												
Structural - PESC												\$ 6,000.00
Markup												5%
REIMBURSABLE EXPENSES SUBTOTAL												\$ 6,300.00
Reimbursable Expenses												
Mileage												\$ 3,400.00
Markup												0%
REIMBURSABLE EXPENSES SUBTOTAL												\$ 3,400.00
TOTAL												\$ 77,565.00



ATTACHMENT B

13581 Pond Springs Road, Suite 210, Austin, Texas 78729 • Phone: (512) 428-5550 • Fax: (512) 428-5525

January 17, 2018
Arias Project No. 2018-35

VIA Email: TonyB@MWMDesignGroup.com

Mr. Tony Buonodono, P.E., PMP
MWM Design Group
305 E Huntland Dr
Austin, TX 78752

RE: Proposal for Geotechnical Engineering Services
City of Bastrop State Trail Pedestrian Walkway
Bastrop, Texas

Dear Mr. Buonodono:

Arias & Associates, Inc. (Arias) is pleased to be selected to provide this proposal for Geotechnical Engineering Services associated with the above referenced project. Our understanding of the project is based on the information provided by you. We have received a PDF of the proposed pedestrian path alignment and a sketch of the proposed sidewalk configuration. Based on our understanding of the proposed construction, the following sections of the proposal present the project information, proposed scope of services, compensation requirements, and proposed schedule.

Project Information

The project will consist of a new elevated sidewalk approximately 500 ft long and will likely consist of a toe wall at the top of the slope and drilled piers on the lower section of the slope. The elevated sidewalk is part of a planned 1-mile long pedestrian trail along E SH-21 (Chestnut St) in Bastrop Tx, the remaining ground-supported trail will be field engineered and is outside the scope of this proposal. The site is currently densely wooded and slopes steeply away from the roadway toward an unnamed creek with estimated slopes on the order of 2H:1V.

Proposed Investigation

Based on our experience in the vicinity of the project, and published geologic mapping, the site is likely underlain by mudstone and/or sandstone of the Calvert Bluff Formation. While not specifically mapped at the site, alluvium consisting of clay, silt, sand and gravel from the nearby site creek will likely be encountered overlying the Calvert Bluff Formation. Based on our understanding of the proposed construction and the suggested scope, we propose the following field investigation program: