



**SUPPLEMENTAL WORK AUTHORIZATION NO. 1
TO
WORK AUTHORIZATION NO. 2**

**WILLIAMSON COUNTY ROAD BOND PROJECT:
North Mays Extension (Paloma Dr. to Oakmont Dr.)**

This Supplemental Work Authorization No. 1 to Work Authorization No. 2 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated April 7, 2015 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and LJA Engineering, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 2 dated effective May 5, 2016 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the County that were set out in the original Attachment "A" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "A" (must be attached).
- II. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).
- III. The Work Authorization shall terminate on September 1, 2017. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- IV. The maximum amount payable for services under the Work Authorization is hereby increased from \$657,237.25 to \$696,991.25. The revised Work Schedule is attached hereto as Attachment "D" (must be attached).

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: _____

Signature

Ken Schrock

Printed Name

Senior Vice President

Title

4/10/17

Date

COUNTY:

By: _____

Signature

Printed Name

Title

Date

OK
m
4/10/17

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

ATTACHMENT A

SERVICES TO BE PROVIDED BY WILLIAMSON COUNTY
North Mays Extension (Arterial M)
Water & Wastewater Relocation Design

1. Williamson County will provide a Project Manager, through their GEC, to serve as the primary point of contact for the consultant.
2. Williamson County or its GEC, will act as direct contact with City of Round Rock.
3. Williamson County shall provide all existing CADD files.
4. Williamson County will provide all existing Subsurface Utility Engineering (SUE) information.
5. Williamson County will provide additional SUE survey as requested by The Engineer and as approved by Williamson County, if needed
6. Williamson County will provide easement acquisition and coordination, if needed.
7. Williamson County will provide utility coordination services for this project.

SERVICES TO BE PROVIDED BY CITY OF ROUND ROCK
North Mays Extension (Arterial M)
Water & Wastewater Relocation Design

1. City of Round Rock will provide review comments within 2 weeks of submission to support schedule.
2. City of Round Rock will prepare project manual with support from LJA.

Attachment B - Scope of Services

SERVICES TO BE PROVIDED BY THE ENGINEER

Roadway: North Mays Extension (Arterial M)
County: Williamson
Limits: PS&E: from Paloma Dr. to Oakmont Dr.

General Work Description: Provide standalone plans, specifications, and estimate (PS&E) development to develop City of Round Rock Water and Wastewater Relocation and Adjustment Plans in connection with the Interim North Mays Street Improvements. The plans will utilize existing utility coordination effort (provided by others) as basis for design along with existing information to complete the design.

The Engineer will perform the following tasks listed below, as described in detail in each Work Authorization:

TASK 1 – PROJECT MANAGEMENT AND COMMUNICATION PLAN

The Engineer will:

- ◆ **Update Project Management Plan**
 - Update a Project Management Plan that establishes all the responsibilities and roles of the team members, including the prime firm and subs. The plan will also detail the procedure process for all submittals.
 - The basis for the design criteria will be the City of Round Rock's Draft Utility Criteria Manual and the existing interim North Mays St. Plans. Should any relevant criteria change during the design process the County will be informed.
- ◆ **Meetings**
 - Milestone Meetings will be held for each of the following submittals: 60%, 90%, Final PS&E. These meeting will include Williamson County, City of Round Rock, and the Engineer's staff and are estimated to last up to 2 hours.
 - Meet with TCEQ (1 meeting)
- ◆ **Invoicing, Contract Document Coordination, Progress Reports**
 - Prepare monthly progress reports and send with invoice to County & GEC via email/ProjectWise.
 - Prepare monthly invoices for submission to the County for all requests for payment.
- ◆ **Coordinate with the City of Round Rock, GEC, & GEC Utility Coordinator**
 - Attend coordination meetings (2), prepare exhibits (as required), and along with the GEC assist in coordination with the City of Round Rock, GEC, and GEC Utility Coordinator and GEC SUE provider.

TASK 2 – GEOTECHNICAL SERVICES

Not Required for this Supplemental.

TASK 3 –PLANS, SPECIFICATIONS, AND ESTIMATE (PS&E) DEVELOPMENT

The Engineer will:

- ◆ **Field Reconnaissance**

- The Engineer will conduct one site visit to collect data on utility locations, future alignments, conflicts, and other engineering aspects, and collect additional photography of existing conditions. For the purposes of estimating the effort for this task, it is assumed that the design team will conduct one (1) site visit using two (2) personnel.

The Engineer will prepare PS&E for this Work Authorization.

The Engineer will develop the following plan set and perform the following engineering in accordance with City of Round Rock guidelines.

- ◆ **Water and Wastewater System Improvements**

- Cover Sheet
- Project Layout Sheets
- General Notes
- E&S Controls, Tree Protection Details
- Waterline Plan and Profile Sheets
- Wastewater Plan and Profile Sheets
- Water/Wastewater Adjustment Details
- Standard Construction Details
- Quantity Summaries

- ◆ **ROW Acquisition Prioritization**

Analyze and develop a ROW acquisition prioritization matrix to allow for the construction of the proposed utilities prior to the roadway.

- ◆ **Organized Sewage Collection System Plan**

Prepare an SCS for TCEQ approval and include design plans, construction notes, and details in the construction drawings.

- ◆ **Milestone Comment Resolution**

Update plans per GEC, County, and City of Round Rock comments received from the 60%, 90% and Final milestone review meetings.

- ◆ **Construction Estimates**

Develop a construction estimate of North Mays (Arterial M) Water and Wastewater Improvements for 60%, 90% and Final Submittals. The estimate will be in Microsoft

Excel spreadsheet format, reflect current bid items and descriptions, and contain all major items that will likely be on the project (Current TxDOT and/or local bid information unit bid prices, with a reasonable adjustment for inflation to the anticipated bid opening date, will be used in preparation of the estimates.

◆ **QA/QC**

- Require these reviews: Detailed Check Review for all designs, Inter-discipline coordination review, detailed plan and construction reviews, and County oversight review.
- PM will maintain documentation of the reviews and it will be made available to the County at their request. All submittals will include a red line set.

TASK 4 –BIDDING PHASE SERVICES

The Engineer will provide a bid tabulation spreadsheet of water/wastewater items for inclusion in the Project Manual that will be compiled/produced by the City of Round Rock. The Engineer will also respond to bidder question, attend the bid opening (if requested), and provide a letter of recommendation based on low bid only.

Work Authorization #2 - Supplemental #1
Water & Wastewater Relocation PS&E

ATTACHMENT C
PROJECT SCHEDULE

WILLAMSON COUNTY
NORTH MAYS EXTENSION (ARTERIAL M)

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1	Task	North Mays Water & Wastewater Relocations	94 days	Mon 4/17/17	Thu 8/24/17	
2	Task	Notice to Proceed	0 days	Mon 4/17/17	Mon 4/17/17	
3	Task	Site Visit	1 day	Thu 4/20/17	Thu 4/20/17	2FS+3 days
4	Task	PS&E Development	90 days	Fri 4/21/17	Thu 8/24/17	3
5	Task	60% Plan & Detail Development	30 days	Fri 4/21/17	Thu 6/1/17	
6	Task	60% Plans Development	15 days	Fri 4/21/17	Thu 5/11/17	
7	Task	60% Internal QA/QC	2 days	Fri 5/12/17	Mon 5/15/17	6
8	Task	60% GEC/City Review	10 days	Tue 5/16/17	Mon 5/29/17	7
9	Task	60% Comment Review Meeting	1 day	Thu 6/1/17	Thu 6/1/17	8FS+2 days
10	Task	90% Plan & Detail Development	25 days	Tue 5/30/17	Mon 7/3/17	
11	Task	90% Plans Development	10 days	Tue 5/30/17	Mon 6/12/17	8
12	Task	60% Comment Responses	1 day	Fri 6/2/17	Fri 6/2/17	9
13	Task	90% Internal QA/QC	2 days	Tue 6/13/17	Wed 6/14/17	11,12
14	Task	90% GEC/City Review	10 days	Thu 6/15/17	Wed 6/28/17	13
15	Task	90% Comment Review Meeting	1 day	Mon 7/3/17	Mon 7/3/17	14FS+2 days
16	Task	100% Plan & Detail Development	7 days	Thu 6/29/17	Fri 7/7/17	
17	Task	100% Plans Development	5 days	Thu 6/29/17	Wed 7/5/17	14
18	Task	90% Comment Responses	1 day	Tue 7/4/17	Tue 7/4/17	15
19	Task	100% Internal QA/QC	2 days	Thu 7/6/17	Fri 7/7/17	17
20	Task	100% Submittal to City	0 days	Fri 7/7/17	Fri 7/7/17	19
21	Task	TCEQ SCS Application	46 days	Thu 6/22/17	Thu 8/24/17	
22	Task	TCEQ SCS Meeting	1 day	Thu 6/22/17	Thu 6/22/17	13FS+5 days
23	Task	TCEQ SCS Application Preparation	5 days	Fri 6/23/17	Thu 6/29/17	22
24	Task	TCEQ SCS Application Submission	0 days	Thu 6/29/17	Thu 6/29/17	23
25	Task	TCEQ SCS Permit	0 days	Thu 8/24/17	Thu 8/24/17	24FS+40 days
26	Task	Project Manual Assembly (By CORR)	10 days	Mon 7/10/17	Fri 7/21/17	20
27	Task	Project Ready to Let	0 days	Thu 8/24/17	Thu 8/24/17	4

Project: Attachment C North M

Date: Mon 4/10/17

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

ATTACHMENT D	
SERVICES FOR NORTH MAYS WA#2:	
LABOR	
LJA	\$38,760.00
DIRECT COSTS	
LJA	\$994.00
TOTAL FOR WA#2	\$39,754.00

TASK DESCRIPTION	North Mays										Number of Sheets	Hours/Sheet
	Senior Project Manager	Senior Engineer	Project Engineer	EIT	Senior Engineering Tech	CADD Operator	Assistant	Total	Hours	Minutes		
TASK 1 - PROJECT MANAGEMENT AND COMMUNICATION PLAN	215.00	175.00	145.00	120.00	175.00	50.00	20.00					
1.1 Develop Project Management Plan	1.0	2.0						3.0				
1.2 Meetings												
Milestone Meetings (60%, 80%, Final)		8.0		3.0				9.0				
Meeting with TCEQ (1)		3.0		3.0				6.0				
1.3 Providing Continued Document Control, Progress Reports												
Monthly Progress Reports		2.0						2.0				
1.4 Coordinate with CORR & GEC												
Coordination Meetings (2)		8.0		6.0				12.0				
Coordinate with GEC SUE provider		2.0		2.0				4.0				
Coordinate with GEC Utility Coordination Team		2.0		2.0				4.0				
Coordination Meeting Exhibits		1.0	0.0	1.0	2.0			3.0				
		23.0	0.0	17.0	2.0	2.0	0.0	45.0				
SUB TOTAL HOURS	1.0	\$4,025	\$0	\$2,210	\$220	\$160	\$0	\$6,630				
SUB TOTAL FEE	\$215											
TASK 2 - GEOTECHNICAL SERVICES												
2.1 Geotechnical Services												
NOT USED												
TASK 3 - PLANS, SPECIFICATIONS, AND ESTIMATE (P&S) DEVELOPMENT												
3.1 P&S Development												
3.1.1 P&S Reconnaissance												
Site Visits (1)		4.0		4.0				8.0				
3.2 Water & Wastewater Improvements												
Cover Sheet		2.0		1.0	1.0			2.0				
General Notes				2.0				4.0				
Quantity Summary				4.0	4.0			8.0				
Project Layouts Sheets				1.0	2.0			3.0				
E&S Controls, Tree Protection Sheets		1.0		2.0	4.0			7.0				
Hydraulic Improvements Plan and Profile		8.0		16.0	32.0			56.0				
Wastewater Improvements Plan and Profile		8.0		16.0	24.0			48.0				
Water/Wastewater Adjustment Details		1.0		6.0	6.0			13.0				
Standard Construction Details				2.0				2.0				
Q&AOC 60%		4.0		1.0	2.0			7.0				
Q&AOC 80%		1.0		1.0	1.0			3.0				
Q&AOC Final		1.0		1.0	1.0			3.0				
3.3 ROW Acquisition Prioritization												
Analyze ROW needs & priorities		2.0		4.0		2.0		8.0				
3.4 Organized Sample Collection System Plan												
Prepare and Submit SCS Permit Application		4.0		6.0		2.0		12.0				
3.5 Mitigation Component Resolution												
Respond to DE Chronology 60% comments		2.0		4.0	8.0			14.0				
Respond to DE Chronology 80% comments		1.0		4.0	4.0			9.0				
3.6 Construction Estimate												
Estimate (60%, 80%, Final)		3.0		8.0				11.0				
SUB TOTAL HOURS	4.0	48.0	0.0	78.0	91.0	4.0	0.0	224.0				
SUB TOTAL FEE	\$860	\$8,050	\$0	\$10,270	\$10,010	\$320	\$0	\$29,510				
TASK 4 - BIDDING PHASE												
4.1 Bidding Phase												
Construction Manual (Assist City)		2.0	1.0	2.0				5.0				
Respond to Bid Questions			2.0	4.0				6.0				
Attend Bid Opening		1.0		2.0				3.0				
Provide Letter of Recommendation		1.0		1.0				2.0				
SUB TOTAL HOURS	0.0	3.0	5.0	9.0	0.0	0.0	0.0	17.0				
SUB TOTAL FEE	\$0	\$525	\$725	\$1,170	\$0	\$0	\$0	\$2,420				
TOTAL North Mays Tasks												
TOTAL HOURS (LJA)	5.0	72.0	5.0	105.0	93.0	6.0	0.0	286.0				
TOTAL LABOR FEE (LJA)	\$1,075	\$12,600	\$725	\$13,650	\$10,230	\$480	\$0	\$39,760				

LJA'S OVERHEAD DIRECT COSTS

DIRECT REIMBURSABLE EXPENSES	Rate	Quantity	Cost
Lodging/Hotel	\$85.00		
Meals	\$36.00		
Mileage	\$0.58	340	\$195.50
Rental Car	\$45.00		
Standard Postage	\$0.42		
Overnight Mail - letter size	\$16.00		
Overnight Mail - oversized box	\$30.00		
Courier Services (Deliveries)	\$30.00	3	\$90.00
CADD Plotting (per SQ/FT)	\$1.50	9	\$13.50
Photocopies B/W (8.5 X 11)	\$0.10	100	\$10.00
Photocopies B/W (11 X 17)	\$0.15	100	\$15.00
Photocopies Color (8 X 10)	\$0.75		
Photocopies Color (11 X 17)	\$1.00		
Blue/line/Black/line Prints (11" X 17")	\$0.20		
Blue/line/Black/line Prints (22" X 34")	\$0.50		
Plots (B/W on Bond)	\$0.25		
Plots (Color on Bond)	\$2.00	10	\$20.00
Plots (Color on Photographic Paper)	\$5.50		
Mylar (11" X 17")	\$3.00		
Traffic Counts	\$2,000.00		
CD Archive	\$1.50		
TCEQ SCS Filing Fee	\$650.00	1	\$650.00
TDLR Registration and Inspection	\$1,450.00		
TOTAL LJA DIRECT COSTS			\$994.00