

CITY OF FLAGSTAFF



- CONFIRMING CHANGE ORDER NO. _____
- CONSULTING CONTRACT CHANGE ORDER NO. 17
- CONSTRUCTION CONTRACT CHANGE ORDER NO. _____
- CONTRACT ALLOWANCE UPDATE NO. _____

PROJECT NO. 346800 **PROJECT NAME:** Rio de Flag Flood Control Utility Relocation

FILE NO. 03-04011 **PROJECT MANAGER:** Jeremy DeGeyter

TO: Shephard Wesnitzer, Inc.

You are hereby directed to make the herein described changes from the plans and/or specifications or perform the following described work not included in the plans and/or specifications of this contract. Description of work to be done:

Provide additional work tasks as described in the proposal dated March 23, 2023 for the Rio de Flag (RDF) Flood Control project as required by the US Army Corps of Engineers (USACE). The added tasks are requirements to meet the estate necessary to certify real estate for construction based on the lands, easements, rights-of-way, relocations and disposal site (LERRD) for the RDF Flood Control Project. The tasks include survey services, legal descriptions for real estate acquisitions, low flow channel revisions, pedestrian access at City Hall, and phasing of construction work at the Five Points Intersection. There is a 365-day time extension requested with this change order.

Change Order originated by: CITY OF FLAGSTAFF CONTRACTOR CONSULTANT OTHER: _____

Project Manager	<u>3/30/2023</u> Date	Approval Recommended	<u>Jeremy DeGeyter</u>
Department Head	<u>3/30/2023</u> Date	Approval Recommended	<u>Shannon Jones</u>
Water Services	<u>3/30/2023</u> Date	Approval Recommended	_____
Public Works	<u>3/30/2023</u> Date	Approval Recommended	_____
City Engineering	<u>3/30/2023</u> Date	Approval Recommended	Rescued
City Attorney	<u>3/30/2023</u> Date	Approval Recommended	_____
Purchasing (Chair)	<u>3/30/2023</u> Date	Approval Recommended	_____
City Manager	<u>3/30/2023</u> Date	Approval Recommended	_____

Digitally signed by Jeremy DeGeyter
DN: c=US, e=jdegeyter@flagstaffaz.gov, o=City of Flagstaff,
ou=Capital Improvements, cn=Jeremy DeGeyter
Date: 2023.03.29 17:32:46-07'00'

ORIGINAL CONTRACT PERIOD	<u>275</u> Days	END DATES <u>(10/30/05)</u>	ORIGINAL CONTRACT	\$ <u>1,582,521.00</u>
PRIOR TIME CHANGES	<u>6,820</u> Days	<u>(6/19/22)</u>	TOTAL PRIOR VALUE CHANGES	\$ <u>2,206,731.34</u>
THIS TIME CHANGE	<u>365</u> Days	<u>(10/1/24)</u>	VALUE OF THIS CHANGE	\$ <u>190,700.00</u>
NEW CONTRACT PERIOD	<u>7,460</u> Days	<u>(10/1/24)</u>	NEW CONTRACT	\$ <u>3,979,952.34</u>

We, the undersigned consultant, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above and perform all services necessary for the work above specified and will accept as full payment therefore the prices and time extensions shown above.

FIRM NAME: Shephard Wesnitzer, Inc.

Accepted Date: 03/28/2023 **By:**

CITY OF FLAGSTAFF			PROJECT STATUS FORM	
PROJECT NAME: Rio de Flag Flood Control Utility Relocation		<input checked="" type="checkbox"/> Design <input type="checkbox"/> Construction <input type="checkbox"/> Other		
PROJECT NO. 346800		FILE NO. 03-04011		
ACCT. NO.				
206-08-385-3236-0-4433		100%		\$3,979,952.34
PROPOSED CONTRACT TOTAL <i>(Includes Original Contract Amount & All Change Orders)</i>				\$3,979,952.34
COUNCIL APPROVAL: January 18, 2005		ORIGINAL CONTRACT AMOUNT: \$1,582,521.00		
PROJECT BUDGET \$2,870,940.00		FY: 12/13		
PROJECT BUDGET		FY:		
NOTICE TO PROCEED: January 28, 2005		ORIGINAL CONTRACT PERIOD (calendar days): 275		
ORIGINAL/REVISED COMPLETION DATES: October 30, 2006/October 1, 2024		ORIGINAL CONTRACT ALLOWANCE: \$75,000.00		
CONSULTANT: Shephard Wesnitzer, Inc.		LOCATION: Flagstaff, AZ		
CITY PROJECT MANAGER: Jeremy DeGeyter				
Change Orders	C.O. Amount/ Allowance Amt	C.O. Days	Council Date	REASON FOR CHANGE
Revision Date	New Total	Original / New Total	New Comp. Date	
CO#1	\$14,404.00	0	N/A	Revise sewer crossings & cost estimate due to change in structures & flood elevations by USACE. Amount is to be taken from City Manager's Authority. \$136,346.00/\$150,750.00
8/04/05	\$1,596,925.00	275	10/30/05	
Field Order #1	\$1,290.00	0	N/A	Prepare exhibits and convert files to Arcmap format. \$73,710.00/\$75,000.00
8/22/05			10/30/05	
Field Order #2	N/A	60	N/A	Time extension due to City/USACE delays.
10/26/05		335	12/29/05	
Field Order #3	2,800.00	60	N/A	Time extension due to City/USACE delays.
2/09/06	0	395	2/27/06	
CO#2	\$11,998.00	261	N/A	Additional Title Reports, time extension due to City delay. Amount is to be taken from City Manager's Authority. \$124,348.00/\$150,750.00
3/20/06	\$1,608,923.00	656	11/15/06	
Field Order #4	\$941.98	0	N/A	Prepare Brownfield Exhibits. \$69,968.02/\$75,000.00
5/20/06	N/A	656	11/15/06	
Field Order #5	N/A	60	N/A	Time extension due to City/USACE delays.
11/6/06		716	1/14/07	

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Revision Date	New Total	Original / New Total	New Comp. Date	
Field Order #6	N/A	60	N/A	Time extension due to City/USACE delays.
1/08/07		776	3/15/07	
CO#3	\$12,015	730	N/A	Additional design to determine estimate of right of way needed and utility relocations cost for the Corps Limited Re-evaluation Report. Amount is to be taken from City Manager's Authority. \$112,333.00/\$150,750.00
2/1/07	\$1,620,938	1506	3/14/09	
Field Order #7	N/A	60	N/A	Time delays due to City and USACE.
3/09/09		1566	5/13/09	
CO#4	\$1,038,036.34	270	5/05/09	Deliver Phase II of the project per the attached scope and fee.
4/16/09	\$2,658,974.34	1836	2/07/10	
Field Order #8	\$3,600.00	0	N/A	Provide additional sewer flow measurement.
9/14/09	2,662,574.34	1836	2/07/10	
CO#5	\$24,343.00	38	N/A	Accelerate design of lower 850 l.f. of utility plans to meet shovel ready designation. Amount is to be taken from City Manager's Authority. \$87,990.00/\$150,750.00
10/15/09	\$2,683,317.34	1874	3/17/10	

CITY OF FLAGSTAFF

PROJECT STATUS FORM

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PROPOSED CONTRACT TOTAL <i>(Includes Original Contract Amount & All Change Orders)</i>	\$3,979,952.34
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COUNCIL APPROVAL: January 18, 2005	ORIGINAL CONTRACT AMOUNT: \$1,582,521.00
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PROJECT BUDGET \$2,870,940.00	FY: 12/13
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PROJECT BUDGET	FY:
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NOTICE TO PROCEED: January 28, 2005	ORIGINAL CONTRACT PERIOD (calendar days): 275
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ORIGINAL/REVISED COMPLETION DATES: October 30, 2006/October 1, 2024	ORIGINAL CONTRACT ALLOWANCE: \$75,000.00
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CONSULTANT: Shephard Wesnitzer, Inc.	LOCATION: Flagstaff, AZ
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CITY PROJECT MANAGER: Jeremy DeGeyter

Change Orders	C.O. Amount/ Allowance Amt	C.O. Days	Council Date	REASON FOR CHANGE
Revision Date	New Total	Original / New Total	New Comp. Date	
Change Order #6	\$0	180	N/A	Time extension due to City/USACE delays as a result of the January 2010 VE study.
3/4/10	\$2,683,317.34	2054	9/13/10	
Change Order #7	\$0	365	N/A	Time extension due to City/USACE delays as a result of the 2010 VE study and revisions to the 90% plans.
9/9/10	\$2,683,317.34	2419	9/13/11	
Change Order #8	\$0	365	N/A	Time extension due to City/USACE delays as a result of the 2010 VE study and revisions to the 90% plans.
9/8/11	\$2,683,317.34	2784	9/13/12	
Change Order #9	\$0	365	N/A	Time extension due to City/USACE delays as a result of the 2010 VE study and revisions to the 90% plans.
9/13/12	\$2,683,317.34	3149	9/13/13	
Change Order #10	\$0	972	N/A	Time extension due to City/USACE delays.
5/21/15	\$2,683,317.34	4,121	5/12/2016	
Change Order #11	\$0	491	N/A	Time extension due to City/USACE delays.
9/15/16	\$2,683,317.34	4,612	9/15/2017	

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PROJECT BUDGET \$2,870,940.00		FY: 19		
PROJECT BUDGET		FY:		
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CONSULTANT: Shephard Wesnitzer, Inc.		LOCATION: Flagstaff, AZ		
CITY PROJECT MANAGER: Jeremy DeGeyter				
Change Orders	C.O. Amount/ Allowance Amt	C.O. Days	Council Date	REASON FOR CHANGE
Revision Date	New Total	Original / New Total	New Comp. Date	
Change Order #12	\$0	958	N/A	Time extension to bring current the existing contract and meet the new USACE final design completion date of 04/30/2020
3/7/19	\$2,683,317.34	5,845	4/30/20	
Change Order #13	\$483,100.00	365	3/17/2020	Additional work to bring outstanding tasks to comply with the USACE final design and meet the project schedule for construction delivery, Spring 2021
2/13/2020	\$3,166,417.34	6,210	4/30/21	
Change Order #14	\$374,135.00	180	11/17/2020	Added tasks are supplemental to the design as outlined and requested by the USACE; supplemental survey services, additional side drain analysis, final design and coordination to produce 100% Construction Plans
11/05/2020	\$3,540,552.34	6390	10/27/21	
Change Order #15	\$97,500.00	235	7/06/2021	Added tasks to ensure the real estate certification has sufficient rights. The added tasks will include revised legal descriptions, schedule B maps, segment maps.
6/17/2021	\$3,638,052.34	6625	6/19/22	
Change Order #16	\$151,200.00	470	11/15/2022	Added tasks related to relocation of utilities within BNSF right of way, real estate acquisitions, design of replacement of pedestrian bridge at City Hall, and phased construction plans to meet USACE requirements.
10/27/2022	\$3,789,252.34	7095	10/1/23	

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CONSULTANT: Shephard Wesnitzer, Inc.		LOCATION: Flagstaff, AZ		
CITY PROJECT MANAGER: Jeremy DeGeyter				
Change Orders	C.O. Amount/ Allowance Amt	C.O. Days	Council Date	REASON FOR CHANGE
Revision Date	New Total	Original / New Total	New Comp. Date	
Change Order #17	\$190,700.00	365	10/1/23	Added tasks related to survey services, legal descriptions for real estate acquisitions, low flow channel revisions, pedestrian access at City Hall, and phasing of construction work at the Five Points Intersection.
3/30/23	\$3,979,952.34	7,460	10/1/24	

COMMENTS: The allocations shown above are inclusive of all Change Orders shown.

Purchase Order Number: 14-000120	Line Number: 1	Amount: \$698,015.35
Purchase Order Number: 14-000120	Line Number: 2	Amount: \$7,244.66
Purchase Order Number: 14-000120	Line Number: 3	Amount: \$483,100.00
Purchase Order Number: 14-000120	Line Number: 4	Amount: \$374,135.00
Purchase Order Number: 14-000120	Line Number: 5	Amount: \$97,500.00
Purchase Order Number: 14-000120	Line Number: 6	Amount: \$151,200.00



Shephard  Wesnitzer, Inc.

Engineering an environment of excellence

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Flagstaff, AZ 86001

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www.swiaz.com

Engineering an environment of excellence.

Ms. Christine Cameron
City of Flagstaff
211 W. Aspen Avenue
Flagstaff, AZ 86001 ("Client")

March 23, 2023
Job # 04473

RE: Rio De Flag
Additional Services Change Order #17

Dear Ms. Cameron:

SWI has been asked to provide additional services for the design and real estate portions of the project. Please provide a change order for the additional services listed below.

1.0 SCOPE OF SERVICES, ADDITIONAL

We propose to provide the following:

Item No.	Description	Fee
1.	Phase 2 Segment Map Revisions: Item #4 of ASWO #14 included preparation of the USACE Segment Maps. This item includes the revision of the right-of-way (ROW) and temporary construction easement (TCE) linework provided by the Army Corps to eliminate areas with insignificant acreage and to follow existing, surveyed parcel boundaries. The Segment Maps for the Upper Reach have been updated to reflect the revised linework. The Army Corps will ultimately approve of the revisions to the easements.	\$2,300
2.	Santa Fe 595 Storm Drain Survey Services: Item #2 of ASWO #13 included final design and construction plans for Santa Fe. This project will be separate from the Rio De Flag project and include storm drain improvements along Santa Fe Avenue and any associated utility relocations and surface reconstruction. This item includes additional survey services as stated below.	\$19,300

Topographic and Boundary Survey:

This item includes topographic survey to include limits of ROW for Santa Fe Avenue from the intersection of Sycamore Street/Summit Avenue to Santa Fe Avenue/Sitgreaves Street. across the City Hall parking lot, and a portion of Grand Canyon Avenue from Walnut Street to Santa Fe Avenue. This item also includes field survey, ROW verification and data processing. SWI will coordinate with utility companies to document existing utilities facilities per the maps and information provided by the franchise utility companies.

Utility Potholing:

This item includes a budget for utility potholing at conflict location identified from maps and information provided by the franchise utility companies.

Legal Descriptions:

This item includes preparing up to five (5) legal exhibits and descriptions for TCEs and/or other easements needed for improvements.

3. City Hall Pedestrian Access:

Item #7 of ASWO #16 included the reconstruction design for the existing pedestrian bridge at City Hall. This item includes a change of design scope to replace the existing City Hall pedestrian bridge with an at-grade sidewalk pedestrian access. The low flow channel will end upstream of Aspen Avenue. The area between the parking lot and City Hall will be utilized as an LID facility.

Structural Engineering Services:

No additional fees are needed. Sirius Structures will prepare the necessary roof details. Field Order #1 documents the change in scope of work.

\$10,300

Electrical Engineering Services:

Electrical construction includes relocating existing PV system and site lighting raceways that run through the existing bridge. The existing PV inverters are to remain in place, not affected by the new work. New city friendly lighting shall be added to the walkway along with any other related electrical power and low voltage raceways.

Basic Services:

- 1. Electrical construction documents including,
 - Up to (1) site observation(s) during design
 - Walkway lighting and photometrics
 - Site power and demolition plans
 - Relocation of PV system feeders
- 2A. Electrical construction administration (CA) / post design (in-house) services including submittal reviews, response to RFIs through construction may be provided as follows,
 - X on a time and materials basis as needed per current engineering rates in force.
 - The amount indicated below for CA services is not to exceed without prior authorization.
 - Additional services beyond NTE amount may be added with client approval.
- 2B. Site visits during construction phase indicated amount below (each visit as needed).

Assumptions:

- Energy calculations are included when required by codes in force.
- Online meetings are included as needed.
- Special systems raceway design is a standard inclusion and includes conduits, wireways, boxes, floor boxes, trays, and similar systems for use by low voltage system installers.

Standard exclusions (unless specifically included in scope of services):

Service or major gear replacement, UPS systems, emergency generators, PV or battery systems, instrumentation / controls, design of AV, access controls, video surveillance, or IT hardware and cabling systems, time-current coordination, arc flash analysis, permitting, meetings with AHJ or utility, cost estimates, LEED design, rebates, engineered fire alarm.

\$15,800

Landscape Services:

The new task includes landscape architecture and irrigation revisions to plans and details for the project segment between Birch Avenue and Route 66 in order to preserve the existing covered walkway in place. Resulting changes will include a stormwater quality feature between Aspen and the north end of the existing covered walkway.

Add to Existing Task 2: Construction Documents:

1. Revision to Landscape Plans
2. Revision to Landscape Details
3. Revision to Irrigation Plans
4. Revision to Irrigation Details
5. Meetings:
 - a. (1) Kick-off meeting
 - b. (1) Coordination meeting
 - c. (1) Client meeting to review changes

\$38,200

Low Flow Channel Engineering Services:

Natural Channel Design, Inc. (NCD) has provided sealed final design documents to SWI as of November 2022. These design documents are part of a much larger set of construction documents tied to both Tetra Tech and SWI project tasks. As final designs in these other tasks are changed, there is a need to modify plans for the surface channel. NCD is continuing to provide coordination and design changes to accommodate the project needs. This statement of work attempts to quantify those efforts.

This statement of work includes the following tasks/deliverables by NCD:

Task 1: Design Coordination & Meetings: NCD will be available to attend multiple design meetings and coordinate one on one with the design team.

Task 2: Engineering Plan Development: NCD is currently working on several design changes and anticipates several others. These are:

- Dale Crossing redesign and sheet regeneration
- Changes to typical details
- Changes to drawing borders and border information
- Changes to Cherry St. crossing
- Oversight, QA/QC

This item also includes revisions to the existing open channel final design. This revision is specifically for the replacement of the channel adjacent to city hall with a LID style swale. The swale will be integrated into FUTS trail alignment changes, city hall access changes and the stormwater conveyance box culvert. Consequent to this change the channel over the box culvert will terminate into the box culvert on the upstream side of Aspen Avenue.

This statement of work includes the following tasks/deliverables by NCD:

Task 1: Design and Coordination Meetings: NCD will attend multiple design meetings as part of the design team. These meetings will be needed to provide timely coordination on utility relocations; rights-of-way and easement needs; verify most current information on crossings designs; flood culvert alignment, elevations and dimension changes; and other project parameters which are needed and relevant to the channel design process. We anticipate multiple meetings with City staff for design review and potential public outreach meetings to present the design and answer questions from stakeholders.

Task 2: Engineering Plan Development: NCD will be responsible for design and plan development of the LID style swale and FUTZ alignment through the reach. This design will be coordinated with City of Flagstaff personnel, SWI engineering and landscape architects (Norris Design) working on the same area.

4. Phase 1 and Phase 2 Traffic Control Plans:

Quail Construction has prepared eleven (11) Phase 1 and five (5) Phase 2 traffic control plans. This item also includes an estimated ten (10) traffic control plans needed for the

\$2,800

Five Points intersection. The City of Flagstaff has approved the submitted plans, excluding the Five Points intersection.

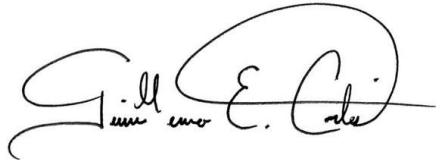
- 5. Five Points Construction Plans:** **\$58,200**
- This item includes fees to prepare construction plans for the box culvert, utility relocation and surface reconstruction through the Five Points intersection. Arizona Department of Transportation (ADOT) requires construction plans, specifications, and a traffic control plan for the temporary improvements to be included in the encroachment permit application. It is assumed that the Army Corps will prepare the specifications needed.
- Topographic and Boundary Survey:**
- This item includes a fee for aerial topographic survey for the intersection. This item also includes survey control, supplemental ground survey, ROW verification, and data processing.
- Legal Descriptions:**
- This item includes preparing up to four (4) legal exhibits and descriptions for TCEs or other easements needed for improvements.
- Traffic Phasing Plan:**
- SWI has prepared a one-lane and two-lane option for the two (2) traffic phases for this intersection. This item includes multiple drafting iterations of the conceptual phasing plan to address COF, ADOT, and the Army Corps comments.
- Construction Plans:**
- SWI will prepare a separate set of construction plans to include the temporary improvements needed to route traffic at this intersection for the box culvert, utility relocation and surface reconstruction improvements.
- Drainage Report:**
- This item includes fees to prepare a drainage report to support the drainage improvements and routing required for the temporary pavement around the intersection. This does not include any additional hydrologic analysis outside of what has already been prepared in the Army Corps drainage report.
- Weekly Meetings:**
- This item includes weekly meetings for up to six (6) months with the City of Flagstaff, Army Corps, and Arizona Department of Transportation to discuss traffic phasing concepts and submittal requirements needed for this intersection.
- 6. Traffic Signal Modification:** **\$16,700**
- Lee Engineering will update the traffic signal facility design and prepare signal plans to reflect the changes due to the Five Points intersection construction plan. The previous plans are salvaging existing equipment, but the construction will now require removal and relocation of the entire traffic signal. This item includes conducting a site visit and developing an Engineer's cost estimate and special provisions.
- 7. Fiber Optic Plan Revision:** **\$5,100**
- Item #8 of ASWO #14 included fees to prepare fiber optic plans for Phase 1 and Phase 2. Item #4 of ASWO #16 included fees to prepare the legal descriptions and exhibits for the fiber optic easements. This item includes revising the fiber optic plan per requests for City of Flagstaff IT. This item also includes mapping existing facilities on Phoenix and Mikes Pike per as-builts and show proposed fiber optic line connections that will occur prior to the RDF project. SWI will coordinate with the Army Corps to determine if fiber conduit crossings with box culvert are acceptable.

- 8. Sewer Siphon Plan Revisions:** **\$3,800**
 Item #6 of ASWO #13 includes fees for final design and plans for the sanitary sewer siphon. This item includes additional fees for revisions to the design and plans. Waterworks provided updated construction plans and calculations for shifting the sewer siphon due to coordinating with the VP gas station signage and Country Inn & Suites Hotel property owners.
- 9. Meetings & Coordination:** **\$18,200**
 Item #15 of ASWO #14 included weekly coordination meetings. This item includes the following meetings for an additional six months with two SWI staff:
- Weekly meetings with the City of Flagstaff
 - Bi-weekly meetings with the City of Flagstaff, Corps, and Tetra Tech
 - Monthly coordination meetings to coordinate the Lone Tree Overpass and RDF projects.
 - Monthly coordination meetings with BNSF to coordinate all City projects along the BNSF corridor.

ASWO#17 DESIGN TOTAL: \$190,700.00

Your signature below will serve as your acceptance of this Work Order, pursuant to the terms and conditions of the original contract. Feel free to call if you have any questions or concerns.

Sincerely,



Guillermo E. Cortes, P.E.
 Vice President

Accepted: _____ Date: _____