AGENDA ITEM
July 19, 2016

Subject: Wastewater Collection System Improvements Project Construction Agreement Amendment 3

Department: Administration

The City of Nevada has employed Rosetta Construction, LLC, of Springfield, MO, to construct improvements to our waste water collection system. The attached amendment includes six changes to their construction agreement. Details are included in the attached letter. This change will result in a net increase of $75,461.85 to the construction agreement. This project is funded by an SRF loan from the Missouri DNR. Our consulting engineer, Allgeier, Martin & Associates has recommended these changes, and the DNR has given approval. This ordinance will approve the attached change order.

BILL NO. 2016-018 **ORDINANCE NO.**

A SPECIAL ORDINANCE OF THE CITY OF NEVADA, MISSOURI AUTHORIZING THE EXECUTION OF CHANGE ORDER NO. 3 TO AN AGREEMENT WITH ROSETTA CONSTRUCTION, LLC, OF SPRINGFIELD, MISSOURI.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF NEVADA, MISSOURI, THAT:

Section 1. The amendment to the agreement for construction services between the City of Nevada and Rosetta Construction, LLC, of Springfield, MO, attached hereto as Exhibit "A" and incorporated herein by reference is hereby approved.

Section 2. The City Manager is hereby authorized and directed to execute on behalf of the City of Nevada the attached documents relating to the Wastewater Collection System Improvements Project.

Section 3. This ordinance shall be in full force and effect after its passage.

PASSED, APPROVED AND ADOPTED by the City Council of the City of Nevada, Missouri, this _____ day of _____, 2016.

_____

(seal) Brian L. Leonard, Mayor

ATTEST:

_____

Johnna Williams, Deputy City Clerk

ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers

June 3, 2016

Mr. Randy Marti
City of Nevada
110 S. Ash Street
Nevada, MO 64772

Re: Wastewater Collection System and Lift Station Improvements, Project #C295698-01

Dear Mr. Marti:

Please find enclosed five (5) copies of partially executed Change Order Number 3 for the Wastewater Collection System Improvement Project funded by the Missouri Department of Natural Resources (MDNR). If acceptable to the City, please fully execute each copy of the change order and return all copies to our office. We will forward the fully executed copies of the change order to MDNR for their approval and then distribute the document back to all parties.

If you have any questions regarding this change order, do not hesitate to call.

Sincerely,

ALLGEIER, MARTIN and ASSOCIATES, INC.

John Briggs, P.E.

Enclosures

Corporate Office
7231 East 24th Street Joplin, Missouri 64804
www.amce.com
417.680.7200

ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers

CHANGE ORDER NO. 3

May 23, 2016

Rosetta Construction, LLC
P.O. Box 14024
Springfield, Missouri, 65814

Re: Interceptor Sewer Improvements
Nevada, Missouri
Project Number C295698-01

Gentlemen:

The following changes are hereby incorporated into your contract with the City of Nevada, Missouri, for the above referenced project.

1. Background: During the excavation of the 24" diameter South Interceptor sewer crossing at Spring Street, unstable soil conditions were encountered causing the sleeper slab under the bridge's approach slab to settle and tilt toward the trench. Additional crushed stone was added in order to stabilize the settlement of the sleeper slab during the pipe installation. The movement of the sleeper slab may have created a void underneath the existing approach slab. During the placement of the concrete repair slab at this location, the Contractor will excavate and expose the top portion of the sleeper slab for the full length of the trench. As much of the void as possible will be filled with concrete simultaneously with the placement of the concrete repair slab. Additionally, the Contractor will mud jack (grout) the area underneath the sleeper slab in an attempt to fill any undetectable void to further stabilize the bridge approach slab. If a large undetectable void does exist, it may be necessary to install additional grout during the mud jacking operation than has been estimated within this change order.

Cost Breakdown: The Rosetta Construction contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
*44	Lump Sum	Lump Sum	Additional Repair Costs to Stabilize Bridge Approach Slab	$8,000.00	$8,000.00
*45	Lump Sum	Lump Sum	Mobilization Costs for the Mud Jacking Crew/Equipment	$1,000.00	$1,000.00
*46	5 C.Y.	5 C.Y.	Cement Grout	$900.00	$4,500.00
			Total Addition/Subtraction		$13,500.00

*Denotes new contract item.

2. Background: During the excavation for the 24" diameter South Interceptor sewer, unsuitable subgrade material was encountered between Stations 25+41 to 28+14 and Stations 69+50 to 91+95. This unsuitable subgrade material was excavated and removed to a depth of approximately 30" below the proposed flowline of the 24" diameter pipe and replaced with compacted 1" clean crushed stone in order to provide adequate bearing support for the proposed sewer pipe. Aside from the additional bedding material, the excavation and removal of the unsuitable subgrade material caused a fairly significant loss of productivity for the Contractor. It has been estimated that the Contractor had a 50% loss in productivity due to the encountering of the poor soils conditions which increased labor and equipment costs. In addition to the cost breakdown below, an additional 90 calendar days have been added to the contract completion time.

Cost Breakdown: The Rosetta Construction contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
*47	Lump Sum	Lump Sum	Additional Material, Labor, and Equipment Costs due to the Unsuitable Subgrades Encountered	$68,394.52	$68,394.52
			Total Addition/Subtraction		$68,394.52

*Denotes new contract item.

Original Contract Completion Date:	31 May 2016
Revised Contract Completion Date (CO 3):	29 August 2016

3. Background: After the existing 10" diameter Tower Street interceptor sewer line was pulled out of the existing casing pipe under the railroad tracks, the Contractor and the on-site representative noted additional subgrade material within the existing casing pipe. Alliance Water Resources utilized their television inspection equipment to determine the condition of the existing casing pipe. Their inspection revealed that a continuous casing under the railroad tracks did not exist. Approximately 35' of casing pipe was found to exist on both sides of the railroad but there was a gap in the middle of nearly 30'. A temporary 15" diameter corrugated pipe was pushed through the existing casing pipes in order to tie the gravity sewer line together and allow for the bypass pumping operations to be suspended until the new casing pipe could be delivered. Finally, a 16" diameter welded steel casing pipe was pushed under the railroad tracks allowing for the proposed 12" diameter carrier pipe to be installed. Lastly, the exterior of the new 16" diameter steel casing pipe was pressure grouted in an effort to fill any voids that may have developed under the railroad tracks.

Cost Breakdown: The Rosetta Construction contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
*48	Lump Sum	Lump Sum	Additional Cost For the Emergency Repairs and Installation of a 16" Dia. Steel Casing Pipe for the Completion of the Railroad Crossing, Complete	$16,134.63	$16,134.63
			Total Addition/Subtraction		$16,134.63

*Denotes new contract item.

4. Background: As construction of the South Interceptor sewer progressed, additional areas requiring the placement of stone rip rap and concrete pipe encasement were identified. The placement of stone rip rap on the banks of existing stormwater channels will minimize future erosion while the installation of concrete encasement provides additional protection for the interceptor sewer line. Additionally, two manholes were added to the project as additional existing manholes that were previously buried were identified. Lastly, the existing manhole at Station 0+00 of the South Interceptor sewer line shall be raised approximately 3.3 feet in order to bring its rim elevation to nearly the same elevation as proposed manhole number 1A. This will also include the grouting of interior joints and the application of epoxy coating on the existing interior manhole joints.

Cost Breakdown: The Rosetta Construction Contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
23	90 L.F.	296 L.F.	Plain Concrete Encasement of 24" Dia. Gravity Sewer	$80.00	$7,200.00
31	2 EA	63 EA	Type I, 48" Dia. Manhole	$3,000.00	$6,000.00
32	11.8 FT	185.7 FT	Type I, 48" Dia. Manhole Extra Depth	$125.00	$1,475.00
33	2 EA	63 EA	Hydrostatic Testing of Type I, 48" Dia. Manhole	$250.00	$500.00
34	45 LF	107 LF	Stone Riprap, 24" Thick	$50.00	$2,250.00
42	3.3 V.F.	201.3 V.F.	Installation of Interior Epoxy Coating System for 48" Dia. MH's	$119.00	$392.70
			Total Addition/Subtraction		$17,817.70

5. Background: In order to reduce project costs, the installation of the fiber optic cable in the Tower Street interceptor sewer trench shall be removed from the project. The installation of the 2" diameter conduit at all of the roadway crossings along the Tower Street interceptor sewer line shall remain in the project for the future installation of the fiber optic cable.

Cost Breakdown: The Rosetta Construction Contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
AA-3	(4,765) L.F.	0 L.F.	Direct Bury Fiber Optic Cable Installed in Tower Street Interceptor Sewer Trench	$9.00	$(42,885.00)
			Total Addition/Subtraction		$(42,885.00)

6. Background: In order to satisfy the Nevada Country Club of the final grading and cleanup across their property, the Contractor has agreed to prepare the disturbed areas and provide sod and 10 loads of black dirt to the Country Club for their own use in repairing the sewer line crossings. Laying of Sod and spreading of black dirt provided will be the responsibility of the Nevada Country Club.

Cost Breakdown: The Rosetta Construction Contract will be revised as follows:

Item No.	No. of Units Add/Subtract	Revised Quantity	Item Description	Unit Price	Total Addition/ Deletion- Dollars
*49	Lump Sum	Lump Sum	Additional Nevada Country Club Surface Restoration	$2,500.00	$2,500.00
			Total Addition/Subtraction		$2,500.00

*Denotes new contract item.

Original Contract Amount	$1,996,880.00
Change Order No. 1 Amount	$45,424.55
Total All Items, This Change Order No. 2	$19,509.00
Total All Items, This Change Order No. 3	$75,461.85
REVISED CONTRACT AMOUNT	**$2,137,275.40**

This change order constitutes full and mutual accord and satisfaction for all time and all costs related to these changes. By acceptance of this change order, the Contractor agrees that the change order represents an equitable adjustment to the contract, and further agrees to waive all rights to file a claim arising out of a result of these changes.

APPROVED BY THE OWNER
CITY OF NEVADA, MISSOURI

By:_____

Date:_____

APPROVED BY THE ENGINEER
ALLGEIER, MARTIN & ASSOCIATES, INC.

By: [signature]

Date: 6/3/16

APPROVED BY THE CONTRACTOR
ROSETTA CONSTRUCTION, LLC.

By: [signature]

Date: 5/31/16