

**AGENDA
ITEM**


10




CITY COUNCIL
AGENDA STAFF REPORT

DATE: December 20, 2023

TO: Mayor and City Council

APPROVED BY: Esperanza Colio Warren, City Manager 

REVIEWED BY: Sandra L. Fonseca, Interim Finance Director 

PREPARED BY: Guillermo Sillas, Director of Public Works/City Engineer 

SUBJECT: Authorize City Manager to Sign Change Order No. 3 with Mountain Cascade, Inc. in the Amount of \$1,050,787.00 for the New River Improvement Project – Calexico Reach.

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Recommendation:

Authorize City Manager to Sign Change Order No. 3 with Mountain Cascade, Inc. in the amount of \$1,050,787.00 for the New River Improvement Project – Calexico Reach.

Background:

On February 15, 2023, the City Council of the City of Calexico awarded Mountain Cascade, Inc. the bid for construction services of the New River Improvement Project – Calexico Reach in the amount of \$40,690,908.04. The project consists of three primary construction components:

1. Trash screen and diversion structure for the New River downstream from the International Boundary with Mexico.
2. Bypass encasement infrastructure for the New River from a point downstream of the International Boundary to a point downstream of the eastern boundary of the City of Calexico to address the public health threat that New River water quality poses to the southern area of the city.
3. A pump-back system to take treated wastewater from the existing Calexico Wastewater Treatment Plant (WWTP) and discharge it into the New River channel at a point near the proposed river diversion and encasement structure.

On October 4, 2023, the City Council of the City of Calexico authorized the City Manager to sign Change Order No. 1 with Mountain Cascade, Inc. in the amount of \$282,500.00 and authorize

City Manager to approve any future change orders not-to-exceed \$610,363.62 (1.5% of Mountain Cascade, Inc. base bid) as per City Ordinance No. 1218.

Here is a list of change orders that have been approved since October 4, 2023:

#	Description	Amount	Balance
			\$892,863.62
Change Order No. 1			
139	72" CCFRFPM Pipe Freight Delivery/Mobilization (Calculation Error in Bid Item)	\$57,500.00	
CO1a	New River East Access – Change of Condition from bidding, required additional work to access east side of River for sheet piling work at NR diversion structure area, reduction of workspace area	\$47,042.73	
CO1b	Transfer Yard Clean-up of City property adjacent to Hensel Phelps property	\$31,754.48	
CO1c	Standby Time Delay for Equipment due to no encroachment permit & Hensel Phelps property not being available.	\$114,812.70	
		Total	\$251,109.91
			\$641,753.71
Change Order No. 2			
CO2a	New River East Access - Change of Condition from bidding, required additional work to access east side of River for sheet piling work at NR diversion structure area, reduction of workspace area	\$24,465.09	
CO2b	Transfer Yard Clean-up of City property adjacent to Hensel Phelps property	\$0.00	
CO2c	Standby Time Delay for Equipment due to no environmental clearance & Hensel Phelps property not being available.	\$109,899.84	
		Total	\$134,364.93
			\$507,388.78

Discussion and Analysis:

On a weekly basis, the State of California Department of Water Resources, City staff, Dynamic Consulting Engineers, Inc. and Mountain Cascade, Inc. meet to discuss the construction progress of the New River Improvement Project (NRIP) – Calexico Reach. One of the NRIP projects main components is the 72-inch pipe bypass encasement infrastructure for the New River from a point downstream of the International Boundary to a point downstream of the eastern boundary of the City to address the public health threat that new River water quality poses to the southern area of the city. The pipe will be installed along the south side of the New River and will cross several feet underneath the City’s two (2) main sanitary sewer lines that convey the wastewater of the City to the Wastewater Treatment Plant (WWTP). The size of the two (2) sanitary sewer lines are 18-inch and 30-inch diameter of Vitrified Clay Pipe (VCP) that were installed approximately 56 years ago when the WWTP was built. The 18-inch line was video inspected and found to be severely cracked & deteriorated. City staff is very concerned

that during the construction process and the running of heavy equipment around and on top of these lines the sewer lines will collapse and pose a great danger to the City.

The 30-inch sewer line was not shown on the project plans. The 18-inch sewer while shown on the plans, did not indicate its material, nor a manhole just adjacent to where the proposed 72-inch pipe bypass will be placed. The trench bottom for the 72-inch pipe will need to go approximately 21' below the 18-inch sewer line, which would need to be supported over the trench top width, even with a shoring box will be more than 20' span.

The replacement of the sewer lines is not part of the original scope of work for the NRIIP-Calexico Reach; however, the risk of collapse is such that both the City and the contractor recommend their replacement. This was supported by the design engineer in the RFI process, including review of their generic support detail for sewer crossings. They acknowledged that the old VCP sewer, with 4' joints would not be practical using this detail. The City would expect the contractor to provide a cost credit for not using this detail, which would have been required for such crossings.

Mountain Cascade, Inc. has provided a cost estimate to remove and replace both 18-inch and 30-inch line. After careful review of the proposed cost estimate, City staff is recommending that the City Council of the City of Calexico approve the following change orders:

#	Description	Amount
1	Pothole and Verify Existing Sewer Line Invert Elevation	\$10,346.00
2	Construction Staking	\$17,865.00
3	Temporary Sewer Bypass to Allow for Construction of 18-inch Sewer Pipe and Sewer Manholes	\$158,402.00
4	Remove and Dispose Existing Sewer Manholes	\$19,958.00
5	Remove and Dispose Existing 18" VCP Sewer Pipe	\$107,940.00
6	Furnish and Install 5-ft Diameter Sewer Manhole, including Manhole Coating	\$104,697.00
7	Furnish and Install 18-inch Diameter PVC Sanitary Sewer, including Trenching, Backfill and Compaction to 90% Relative Compaction	\$60,060.00
8	Temporary Sewer Bypass to Allow for Construction of 30-inch Sewer and Sewer Manhole	\$182,384.00
9	Remove and Dispose Existing 30-inch VCP	\$128,800.00
10	Furnish and Install 30-inch Diameter PVC Sanitary Sewer, including Trenching, Backfill and Compaction to 90% Relative Compaction	\$213,360.00
11	Pressure Testing of Sewer Pipe, including 18-inch and 30-inch Diameter Pipes	\$26,011.00
12	Concrete Encasement 30-inch Sewer Pipe (24-ft length of pipe)	\$20,964.00
	Total	\$1,050,787.00

Fiscal Impact:

Capital Improvement Program Budgeted Item for FY 2023-2024	
Revenue – Fund No. 475-91-902	
DWR Grant - Construction	\$42,725,453.00
Sub-Total	\$42,725,453.00
Expenditures – Fund No. 475-91-902	
Mountain Cascade, Inc. – Original Bid	\$40,690,908.04
Mountain Cascade, Inc. – Change Order No. 1	\$251,109.91
Mountain Cascade, Inc. – Change Order No. 2	\$134,364.93
Mountain Cascade, Inc. – Change Order No. 3	\$1,050,787.00
Contract amount including change orders no. 1, 2 & 3 Sub-Total	\$42,127,169.88
Total Construction Balance (\$42,725,453.00 - \$42,127,169.88)	\$598,283.12

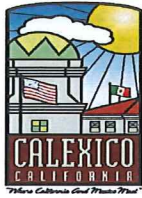
Please note that DWR provided the City with a five percent (5%) contingency from Mountain Cascade, Inc. original bid for the construction phase of said project (\$40,690,908.04 x 5% = \$2,034,545.00). If Change Order No. 3 is approved, the remaining construction contingency balance will be \$598,283.12 for any future change order requests.

Coordinated With:

California Department of Water Resources.
City Manager’s Office.
Public Works Department.
Office of the City Clerk.

Attachment(s):

1. Mountain Cascade, Inc. Change Order No. 3.



**CITY OF CALEXICO
PUBLIC WORKS DEPARTMENT
CHANGE ORDER NO. 3**

Name of Project: New River Improvement Project - Calexico Reach

Name of Contractor: Mountain Cascade, Inc.

Date: December 20, 2023

#	Description	Price Increase	Price Decrease	Time Extension
1	Pothole and Verify Existing Sewer Line Invert Elevation	\$10,346.00		
2	Construction Staking	\$17,865.00		
3	Temporary Sewer Bypass to Allow for Construction of 18-inch Sewer Pipe and Sewer Manholes	\$158,402.00		
4	Remove and Dispose Existing Sewer Manholes	\$19,958.00		
5	Remove and Dispose Existing 18" VCP Sewer Pipe	\$107,940.00		
6	Furnish and Install 5-ft Diameter Sewer Manhole, including Manhole Coating	\$104,697.00		
7	Furnish and Install 18-inch Diameter PVC Sanitary Sewer, including Trenching, Backfill and Compaction to 90% Relative Compaction	\$60,060.00		
8	Temporary Sewer Bypass to Allow for Construction of 30-inch Sewer and Sewer Manhole	\$182,384.00		
9	Remove and Dispose Existing 30-inch VCP	\$128,800.00		
10	Furnish and Install 30-inch Diameter PVC Sanitary Sewer, including Trenching, Backfill and Compaction to 90% Relative Compaction	\$213,360.00		
11	Pressure Testing of Sewer Pipe, including 18-inch and 30-inch Diameter Pipes	\$26,011.00		
12	Concrete Encasement 30-inch Sewer Pipe (24-ft length of pipe)	\$20,964.00		
	Sub-Total	\$ 1,050,787.00	-	
	Total	\$ 1,050,787.00		
	Contract Amount	\$ 41,076,382.88		
	Total Contract Amount (Contract + Change Order No. 3)	\$ 42,127,169.88		

Esperanza Colio Warren, City Manager
City of Calexico, 608 Heber Avenue, Calexico, California

Carlos Beltran, Construction Manager
Dynamic Consulting Engineers, 2415 Imperial Business Park Drive, STE B, Imperial, California

Michael D. Fuller, President
Mountain Cascade, Inc., 555 Exchange Court, Livermore, CA



Proposal
 PO Box 5050, Livermore, CA 94551
 (925) 373-8370 Fax (925) 373-8379

TO: City of Calexico

MCI Job # 91597
 Contract # City of Calexico
 Project Title New River Improvement Project Calexico Reach

Date TBD
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Att'n: Mrs. Liliana Falomir

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	BID TOTAL
1	Pothole and Verify Existing Sewer Line Invert Elevation	1	LS	\$10,346.00	\$10,346.00
2	Construction Staking	1	LS	\$17,865.00	\$17,865.00
3	Temporary Sewer Bypass to Allow for Construction of 18" sewer pipe and sewer manholes	1	LS	\$158,402.00	\$158,402.00
4	Remove and Dispose Existing Sewer Manholes	2	EA	\$9,979.00	\$19,958.00
5	Remove and Dispose Existing 18" VCP Sewer Pipe,	420	LF	\$257.00	\$107,940.00
6	Furnish and Install 5-ft Diameter Sewer Manhole, include manhole coating	3	EA	\$34,899.00	\$104,697.00
7	Furnish and Install 18" DIA PVC Sanitary Sewer, including trenching, backfill and compaction to 90% relative compaction	420	LF	\$143.00	\$60,060.00
8	Temporary Sewer Bypass to Allow for Construction of 30" Sewer and sewer manhole	1	LS	\$182,384.00	\$182,384.00
9	Remove and Dispose Existing 30" VCP	560	LF	\$230.00	\$128,800.00
10	Furnish and Install 30" DIA PVC Sanitary Sewer, including trenching, backfill and compaction to 90% relative compaction	560	LF	\$381.00	\$213,360.00
11	Pressure testing of Sewer Pipes, Including 18" and 30" diameter pipes	1	LS	\$26,011.00	\$26,011.00
12	Concrete Encasement 30" Sewer Pipe (24-ft length of pipe)	1	LS	\$20,964.00	\$20,964.00
TOTAL =					\$1,050,787.00