



DEPARTMENT OF PUBLIC UTILITIES

CAPITAL IMPROVEMENT PROGRAM LARGE CONSTRUCTION CONTRACTS CHANGE STATUS REPORT

July 10, 2017
(Data through June 30, 2017)

Includes data for the following contracted projects:

Friant-Kern Canal Pipeline	WC00038-FKCP	Mountain Cascade Construction Co.
Kings River Pipeline	WC00057-KRP	Garney Construction Co.
Southeast Surface Water Ttmt Facility	WC00057-SEWTF	RFP 001.1 - After award of the construction cor
Regional Transmission Mains A1	WC00065-RTMFD (Segment A1)	Garney Construction Co.
Regional Transmission Mains A2	WC00065-RTMFD (Segment A2)	Floyd Johnston Construction Co.
Recycled Water Transmission Main SW1B	TC00095-SW1B	Garney Construction Co.
Recycled Water Transmission Main SW1C	TC00095-SW1C	Garney Construction Co.

Closed projects (data included in prior reports):

Water Storage Tank T-4	WC00061-TNK04	Mountain Cascade Construction Co.
Recycled Water Transmission Main SW1A	TC00095-SW1A	Floyd Johnston Construction Co.

The Enterprise Accountability and Oversight Act (adopted by City Council on February 26, 2015) and the Construction Management Act (adopted by City Council on May 21, 2015) provide for an Oversight Board to review and evaluate General Fund or Enterprise Capital Projects in excess of \$20 million.

This report summarized construction contract changes for all active Department of Public Utilities (DPU) Capital Improvement Projects valued at \$20 million or greater, and select other significant projects.

Construction Contract Change Item Descriptions (CID)

Project Name: **Friant-Kern Canal Pipeline Project**
 Project Number: **WC00038-FKCP**
 Data Date: **07/10/17**

Original Contract Value: **\$15,157,862**
 Approved Contract Change Orders: **(\$17,173)**
 Current Contract Value: **\$15,140,689**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			(\$17,173)	\$0	\$520,444	\$475,861	0
Change Order Requests							
COR XXX	Subgrade Stabilization at 36" Irrigation Line	Contractor requested change due to ground water and what they claimed is incompetent subgrade to support installation of replacement RCP for the Garfield Water District (GWD) line. Initial installation by Contractor of piping with subgrade backfill (sand) as specified by GWD, failed. Contractor requested and received permission from GWD to remove specified subgrade backfill which had failed and replace with 3/4" crushed rock. Contractor seeking reimbursement for 3/4 crushed rock.				\$5,196	
COR XXX	Nesting Birds in Work Zone	This request of change pertains to Contractor's assertion of changed environmental field conditions as the result of nesting birds within the work area, preventing the Contractor from completing certain portions of the remaining work until the buffer restrictions around the nests are lifted.				\$93,941	
COR XXX	CTS Shutdown Equipment Impacts	The associated cost are relative to the ceased and desist order issued by the California Department of Wildlife and Fisheries in conjunction with the US Bureau of Reclamation as a mechanism for the preservation and protection of the California Tiger Salamander. Equipment was left unused during the order.				\$79,727	
COR XXX	Canal Flows Exceed 300 CFS	PCO No. 014: Contractor requesting reimbursement for flooded work area during installation of intake structure in Friant-Kern Canal. Contractor claims storm water releases by USBR into Friant-Kern Canal exceeded 300 CFS. Specification required Contractor to design coffer dam to withstand 300 CFS releases into canal during construction. Contractor contends flows exceed 300 CFS on the date mentioned in PCO No.14 and flooded the work area.				\$8,792	
Requests for Proposal							
RFP 009	NESWTF Piping Redesign	This change is for costs associated with the recent redesign of water supply piping connecting the FKCP to the NESWTF plant.				\$288,204	
Work Change Directives							
WCD 003 - REV 1	Procurement of NE Redesign Materials	Purpose of this WCD was to allow the contractor to procure the mag meters and additional equipment needed per the redesign at the NE plant. WCD was needed to allow contractor to purchase the items prior to a change order due to time constraints in procuring the items.			\$231,800		
WCD 004	Procurement of Flow Meter Spool Pieces	Change is for the purchase of a 12" and 30" spool piece. Spool pieces will allow installation of the process piping at the NESWTF to proceed without the long lead time mag flow meters. Spool pieces will serve as place holders and will be replaced by mag flow meters once meters arrive onsite.			\$2,548		
WCD 007	Property Owner Gates	Two additional 14' access gates are required on the Leshar property. Additional gates are needed to be ordered because the original gates are too small for Leshar's equipment to pass through the gates.			\$1,700		
Change Orders							
CCO 001	Contract Change Order No. 1	WCD 001 -Excavation on Burrows: Contractor provided labor and equipment to support excavation of burrows per environmental permits. Cost increase of \$54,432.86. RFP 001 -- Tracer Wire Credit: Design Engineer recommended that the tracer wire is no longer needed for this project. Cost credit of (\$6,883.00). RFP 002 -- Access Vault Detail: Additional gravel was added to precast manholes as well as sump drain in order to be consistent with all Recharge Fresno Program projects. Cost increase of \$6,233.22.	(\$70,274)				0

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		RFP 003 -- Stilling Well Detail: The stilling well utility box at the diversion site was changed to larger configuration as the specified unit was too small. Cost increase of \$339.66. RFP 004 -- Elimination of Pipe Joint Diapers: Contractor provided a credit to modify the exterior pipe joint corrosion protection to use additional depth CLSM backfill in lieu of hand palcing cement mortar grout. Cost credit of (\$124,397.00).					
CCO 002	Contract Change Order No. 2	COR 001 - This change was initiated by the City to replace lights on the pre-cast building with LED versions and also to eliminate the alarm system which will be covered by a separate contract. \$2,358.71 COR 002 - This change for additional cable was a resultant of RFI 095 when it was determined the length of cable shown on the plans is not of sufficient length. \$9,116.35 COR 004 - This change is associated with all extra work associated with the corrections necessary to bring the fencing of the Lesher Property into agreement with the Lesher MOU including purchase of "split" red cedar posts, removal of previously install red cedar post and replacement with "split" red cedar posts as defined in the Lesher MOU. \$29,822.59 RFP 005 - This change implements grating manufacture Anvil International recommendation for additional welded steel support brackets at the edge of the grating were needed to provide a safe working platform for City workers. \$1,445.90 RFP 006 - This change adds conduits to provide the necessary connections to support radio communications between the NESWTF and the Friant Kern Canal turnout site. \$1,669.50 RFP 008 - This change modified the coating on small diameter pipe specials from epoxy to an industry standard asphaltic coating to expedite the fabrication and provide a credit to the City of (\$11,068.75) RFP 012 - This change adds small diameter air relief vents in the pipe access manways to provide a long term means to support the City's future maintenance. \$19,757.72	\$53,101.73				0
Draft CCO 003	Draft Contract Change Order No. 3	COR 003 - Due to extremely wet winter Garonne Road had to be used for construction access. Construction traffic severely damaged the existing pavement resulting need to repair road. A two inch AC overlay will be used to repair from construction traffic. Cost will be divided 60/40 between the City and Contractor. The City's share is 60%. RFP 011 - This change provides repairs to a section of private road (Foothill Lane and Old Clovis Ave) due to damage by construction. The environmentally permitted construction zone in this area provided insufficient space for the necessary construction activities, and MCI used the private road for access. RFP 007 - Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. RFP 010 - This change provides modifications to the Foothill Lane roadway replacement design in response to emergency service agencies requirements to include gravel shoulders for passing and a widened roadway section at the Auberry Road intersection. Gravel shoulder will be on one side and 7 feet wide. WCD 002 - This change provides weather related maintenance required to Foothill Lane temporary road to maintain safe accesss to residents and emergency responders. WCD 005 - Additional ventilation equipment was required for confined space entry to allow for inspection of the existing pipe that this project will be tying into. Existing pipeline was installed 10 years ago and has not been used. Contractor provided last-minute equipment for City inspection.			\$38,700		
					\$25,500		
					\$23,454		
					\$35,486		
					\$85,000		
					\$3,756		

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		WCD 006 - Additional costs associated with necessary changes in construction methods which were required due to inclement weather, including import of prepared cementitious backfill material (in lieu of on-site preparation) and reverse laying of ten 60-inch diameter pipe joints. Work was required to be completed during the wet season in order to meet schedule requirements associated with operation of adjacent Garfield Water District pipeline.			\$72,500		

Construction Contract Change Item Descriptions (CID)

Project Name: **Kings River Pipeline Project**
 Project Number: **WC00057-KRP**
 Data Date: **07/10/17**

Original Contract Value: **\$45,583,750**
 Approved Contract Change Orders: **\$54,830**
 Current Contract Value: **\$45,638,580**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$54,830	\$0	\$191,779	\$28,000	60
Change Order Requests							
COR 001	Paleontological/Cultural Monitoring	Paleontological Monitoring: Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner.			\$127,333		
COR 004	Base Rock to Provide All-Weather Surface	This change was a negotiated solution to changes in the specifications to address the County's requirements for 2-way traffic in the construction soft closure zone.			\$56,056		
COR 005	Fabricate Turnout Structure Grating & Beams	Change Order Request is a result to field changes in the position of the traveling screen at intake verse position in approved submittal. As a result of the position change the prefabricated grates and support beams required modification. This change addresses costs associated with the modifications.			\$8,389		
Requests for Proposal							
None							
Work Change Directives							
WCD 003	Rotating Actuators	Change involves changes to the handrails at the intake to allow for the slide gate actuator to be rotates 180 degrees from its current installed position. As currently designed and constructed, the slide gate actuator will not allow the Rubicon flume meter to be removed for servicing. By rotating the actuator 180 degrees the Rubicon flume meter can be removed for service without disassembly of slide gate actuator over open water of the canal.				\$10,000	
WCD 004	Electrical Pad	Concrete pad added at request of Operations staff, plans omitted a concrete pad to allow for an safe all weather work surface.				\$5,000	
WCD 005	CARV at STA 100+20	CARV installed as per plans. However, during initial site visits the property owner failed to mention that a gate was present in the location of the CARV. Property owner has now stated the CARV is in conflict with his gate and will prevent furure developemet of his property and has requested the CARV be relocated. The CARV to be relocated to the east of present location.				\$8,500	
WCD 006	CARV at STA 308+22	CARV install within right-of-way but close to the edge. Property owner has planted vines crowding the right-of-way such that during normal agricultural cultivation there is a high probability of the equipment striking the CARV enclosure at its present location. WCD directed the Contractor to move the CARV three feet closer to Belmont to provided sufficient clearance and significantly reduce the possibility of damage to the CARV and a possible claim by the farmer for damage to his equipment. Property owner requested the CARV to be moved.				\$4,500	
Change Orders							
CCO 001	Contract Change Order No. 001	Contract Time Extension: Contract time extension granted with concurrence that additional time was needed to complete the proposed work and recognizing that time extension would not impact negatively impact ability to comission SESWTF on schedule. This is a no cost change for this CCO.	\$0				60
CCO 002	Contract Change Order No. 002	COR 002 - Change was initiated by the City to pay for additional signage for the Belmont Nursery as well as the Belmont Country Club. \$3,950 COR 003 - This change was initiated by the City to pay for the uplift labor cost to work on three Saturdays to ensure the Diversion Structure was completed ahead of schedule to support FID need to release water. \$8,353	\$54,830				0

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		RFP 002 - State of California law requires pre construction survey monument location data to be filed with the Fresno County Surveyor. This was not included as a contractor responsibility in the contract documents, the contractor was requested to provide a proposal to add the work. After reviewing the contractor's proposal, the City decided to use the design engineer's surveyor. \$47,745					
		RFP 003 - This change responds to Design Engineer's recommendation that tracer wire is no longer needed for this project. Credit (\$17,958)					
		WCD 002 - This change adds vehicular rumble bars and gravel surfacing at the construction staging area common entrance from Olive Ave. This entrance is shared with three Recharge Fresno Program contractors and the common area surfacing was not included in any individual contract. \$12,740					

Construction Contract Change Item Descriptions (CID)

Project Name: **Southeast Surface Water Treatment Facility**
 Project Number: **WC00057-SESWTF**
 Data Date: **06/30/17**

Original Contract Value: **\$158,766,000**
 Approved Contract Change Orders: **\$2,139,975**
 Current Contract Value: **\$160,905,975**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$2,139,975	\$73,483	\$0	\$60,000	0
Change Order Requests							
None							
Requests for Prop (Data through June 30, 2017)							
None							
Work Change Directives							
WCD 009	Soil-cement stabilization on Olive Avenue	COP 050 -- Provide soil-cement soil stabilization on Olive Avenue per the recommendations of BSK Associates due to saturated subgrade.		\$73,483			
WCD 010	Soil cement stabilization on Armstrong Avenue	COP xxx -- Provide Soil cement stabilization on Armstrong Avenue due to saturated subgrade.				\$40,000	
WCD 011	Replace FID irrigation pipeline at Floradora & Olive	RFP 001.1 - After award of the construction contract, high-speed rail development plans within the City were identified that were in conflict with the planned future				\$20,000	
Change Orders							
CCO 001	Contract Change Order No. 1	RFP 001 - CM Trailer Modifications - Modification of design for CM trailer complex, including reduction in size to align with a revised approach to housing the Program Team and CM teams for SESWTF and KRP projects. Credit \$1,153,313 WCD 002 - Establish Supplemental Line Item - Addition of supplemental task line item and budget to the construction contract in line with City's standard approach to change management and to allow for timely processing of time-critical changes during the course of construction. Cost Increase \$1,000,000	(\$153,313)				0
CCO 002	Contract Change Order No. 2	RFP 002 (WCD 001) - Finished Water Reservoir Change - Modification of finished water reservoir configuration to provide an overall cost savings. Credit \$1,552,734.	(\$1,552,734)				0
CCO 003	Contract Change Order No. 3	COR 004 -- VECP 001 -- Modify Site Permitter Block Wall from 6'-6" deep by 1'-0" wide footing to a 1'-6" deep by 3'-6" spread footing to provide the same foundation performance with less excavation, backfill, and concrete. Credit \$34,717. COR 004 -- VECP 002 -- Modify the crack control joints in Backwash Sludge Lagoons to provide the same level of shrinkage crack control with less manual saw-cutting and joint sealant. Credit \$62,224. COR 004 -- VECP 003 -- Change the Treated Water Reservoir structural underdrain collectors from buried Scheudle 80 PVC pipe to and HDPE dual wall corrugated pipe. Credit \$59,633.	(\$156,564)				0
CCO 004	Contract Change Order No. 4	COR 006 -- VECP 004 -- The current design calls for a cable trays installed about 20' above grade for routing cables within the Chemical Facility. This proposal relocates these wires to under-slab and in-slab conduits. Spare conduits and concrete encasement are provided. Credit \$100,581. COR 003 -- COP 009.1 -- Modifications to electrical feeder breaker DPOPS-1 in the chemical building. Cost increase \$6,429. COR 005 -- COP 014 -- Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. Cost increase \$24,938. RFP 023 -- COP 015 -- Minor revisions to security sytem device locations. Cost increase \$19,573. RFP 017 -- COP 016 -- Upgrades the type of fuel tank in response to recently changed City of Fresno Fire Department requirements for generator base mounted diesel fuel tanks to be constructed and listed to UL 2085 in lieu of UL 142. Cost increase \$172,899.	\$126,520				0

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		RFP 019 -- COP 019 -- Delete the two 6" ozone vents located inside the ozone contact basins, including the slab penetration and pipe support. Credit \$2,707.00. COR 001 -- COP 006 -- Add additional exit sign in the Ozone Facility lower level. Cost increase \$1,424. COR 002 -- COP 007 -- Add additional conduit tags for heat trace wire. Cost increase \$3,680. RFP 007 -- COP 005 -- Reroute 36-in BWS pipeline to provide more efficient flow and less opportunity for air entrainment. Cost increase \$8,461. RFP 009 -- COP 003 -- Revise landscaping plan to mitigate for removal of large California Live Oak. Cost increase \$4,245. RFP 011 -- COP 008 -- Change the location of the ISO Flanges on the Finished Water Transmission Main leaving the site. Reduces the number of ISO flanges. Credit \$29,658. WCD 003 -- COP 004 -- CM directed abandonment of old water well on site. Cost increase \$3,168. WCD 002 -- COP 011 -- CM directed removal of old residential garbage dump on site. Cost increase \$14,649.					
CCO 005	Contract Change Order No. 5	RFP 029 -- COP 023 -- Added scope for SCADA (plant control system) programming. Originally anticipated to be performed under separate contract, it was determined that addition of scope to the SESWTF construction contract was the most effective and efficient method of implementation. Thus this change does not require additional funding for the overall project. Cost Increase \$2,493,750	\$2,493,750				0
CCO 006	Contract Change Order No. 6	COR 007 -- COP 025 -- Delete concrete encasement of plumbing under Operations Building and Maintenance Facility and install per code for occupied buildings. Credit \$21,465 RFP 015 -- COP 012 -- Add several conduits and cables to support the required ozone emergency shutoff switches. Cost Increase \$5,590 RFP 016 -- COP 017 -- Provide larger panel boards for LP-MAINT-1 and DP-MAINT-1 to accommodate the maintenance shop requirements to support pipe heat tracing. Cost Increase \$48,399 RFP 021 -- COP 013 -- Miscellaneous changes to electrical service to plumbing fixtures. Cost Increase \$9,560 RFP 025 -- COP 021 -- Add 36 stator baffle walls to improve flow patterns in the flocculation basins at high flow rates. Cost Increase \$140,989 WCD 007 -- FO 002 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Olive Ave in order to provide suitable road subgrade. Cost Increase \$47,898 WCD 008 -- FO 001 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Floradora Ave in order to provide suitable road subgrade. Cost Increase \$34,148	\$265,119				0
CCO 007	Contract Change Order No. 7	COR 008 -- COP 026 Contractor suggested that the west wall of the filter building requires damp proofing on the buried section and the DE concurred. \$2,018.00 COR 009 -- COP 034 -- Revised wall opening at two locations for connection between Ozone and Filtration processes. \$24,876.00 RFP 012 -- COP 028 -- Delete the removal & reinstallation of 107 LF of 8" PVC C-900 water main in Floradora Avenue from Sta. 36+36.02 to Sta. 37+06.22. Credit \$4,280.00 RFP 020 -- COP 030 -- During construction of the CM trailer, several modifications were required: ADA parking spots, reduced scope of fire alarm, reduced scope of security, and added networking capability. \$60,156.00 RFP 027 -- COP 027 -- Several miscellaneous changes to the piping in Floradora resulted from CoF and FID plan checks at beginning of project. \$10,790.00 RFP 036 -- COP 032 -- Change modifies the connection detail for the CAV line to the 16-inch potable water line. \$6,674.00	\$103,837				0

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		RFP 046 -- COP 033 -- Provides revisions to the ozone destruct vent piping based on manufacturer's recommendations. Timing was urgent on this item. \$3,603.00					
CCO 008	Contract Change Order No. 8	COR 010 -- COP 037 -- CoF Fire Department review of the Fire Alarm panel resulted in some mandatory changes to the specifications.. (RFI 0165) (\$16,796.00) COR 011 -- COP 045 -- Make multiple changes in electrical feeder sizes resutling from clarifications provided in RFI 0131. (RFI 0131) (\$13,363.00) COR 012 -- COP 047 -- Change the ceiling in Server Room from acoustic ceiling tiles to a hard lid gypsum wall board ceiling to contain the clean agent fire suppression system.. (RFI 0173) (\$3,694.00) COR 013 -- COP 052.1 -- Change the components of the VPN Firewall to meet connection requirements oif the City-Wide CISCO Identify Services Engine for all VPN communications. (RFI 0228) (\$67,559.00) COR 014 -- COP 057 -- Change the CTS Diffuser material from PVC to stainless steel. (RFI 0231) (\$9,531.00) COR 015 -- COP 062 --Change two in-line Polymer diffusers from PVC to Hastelloy C per manufacturer recommendation. (\$2,583.00) COR 016 -- COP 066 -- Change the components of the VOIP & Communications Firewall to meet connection requirements oif the City-Wide CISCO Identify Services Engine. RFP 052 -- COP 060 -- Modify the Ops Building Entryway Sunshade to coordinate with CMU wall configuration. (DC 066) (\$2,137.00) RFP 026 -- COP 036 -- Change configuration of local control panels for field equipment. (DC 042) (\$ 6,358.00) RFP 033 -- COP 035 -- Modify offsite street lighting configuration as result of CoF plan checks at beginning of project. (DC -029) (\$67,363.00) RFP 035 -- COP 043 -- Modify the telephone service conduits to accommodate AT&T revised service plans. (DC 045) (\$17,856.00) RFP 041 -- COP 039.2 -- Provide plates to cover trenches under access manways to Ozone Contact Basins. (DC 050) (\$6,736.00) RFP 044 -- COP 040 -- Provide revisions to main operator room entrance for added security. (DC 055) (\$2,695.00) RFP 045 -- COP 042 -- Change turbidimeters to align with the City's standards. (DC 056) (\$27,594.00) RFP 046 -- COP 049 -- Provide connection on 72-inch Raw Water Pipeline for future extension to the T3 facility. (RFP 078) (\$74,995.00) RFP 048 -- COP 055 -- Extend the Meter Vault access hatch 12 inches above grade for visibility and provide three bollards on the south side. side of the manhole. (DC 055) (\$6,573.00) RFP 049 -- COP 056 -- Add CAV Valves on varfious high points on the site PW Line loop. (DC 060.1) (\$5,687.00) RFP 050 -- COP -- 058 -- Add CAV Valves on 6" PW south end of the Operations Building. (DC 064) (\$5,163.00) RFP 051 -- COP 059 -- Provide security screen on the Perimeter Wall Opening stormwater overflow section. (RFP 009) (\$9,848.00) RFP 053 -- COP 061 -- Incorporate all modifications to the SCADA hardware described as "Option 2" in the Helix 01/19/17 letter attachment to COP 061. Additionally, Increase the SCADA Hardware Allowance from \$20,000 to \$22,613 to cover the full cost of this modification. (COP 061). (\$2,613.00) RFP 054 -- COP 063 -- Change the flooring type in the Operations Building upper story hall from Polished and Densified Concrete to Linoleum with a pattern per the attached figure. (DC 065) (\$6,281.00)	\$469,975				0
CCO 009	Contract Change Order No. 9	RFP 022 WQ -- COP 018.1 -- Add mixers to the two Caustic Soda Tanks (DC 036) RFP 024 WQ -- COP 020 -- Add a tap on the Raw Water Pipe for injection of Sodium Hydroxide. (DC 038)	\$543,385				0

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
		RFP 034 WQ -- COP 041 -- Add electrical and instrumentation for mixers on two Chemical Storage Tanks. (DC 044)					
		RFP 037 WQ -- COP 038 -- Add a Lime Fill Access Station in the Chemical Building. (DC047)					
		RFP 039 WQ -- COP 031 -- Add a tap on the Treated Water Pipe Tap for injection of CO2. (DC 039)					
		RFP 040 WQ -- COP 044.2 -- Add three caustic chemical feed pumps. (DC 049.1)					
		RFP 043 WQ -- COP 046 -- Make modifications to the Caustic Tanks to convert two for Sodium Hydroxide. (DC 053)					
		RFP 042 WQ -- COP 048 -- Add roof hatches to the two lime tank roofs. (DC 052)					
		RFP 047 WQ -- COP 065 -- Delete two Sodium Hydroxide System mixing eductors.(DC 067)					
		RFP 055 WQ -- COP 065 -- Make multiple mechanical changes in the Chemical Building to facilitate the addition of a Calcium Hydroxide feed system to the treatment scheme. (DC 058.1)					

Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A1**
 Project Number: **WC00065**
 Data Date: **07/11/17**

Original Contract Value: **\$28,471,884**
 Approved Contract Change Orders: **\$88,282**
 Current Contract Value: **\$28,560,166**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$88,282	\$54,187	\$107,901	\$308,252	4
Change Order Requests							
COR 003	Additional Signs - Fowler to Clovis	Contractor pursuing additional costs associated with furnishing special notification signage to address public outreach concerns for businesses along the project alignment.		\$3,171			
COR 004	Utility Conflicts @ 665+54 and 665+39	Contractor pursuing costs associated with extra work to lower RTM alignment to avoid conflict with two unidentified 24-inch irrigation lines at Sta. 665+39 and 665+54.				\$21,253	
COR 005	Flagging for Gallo	Increased traffic congestion caused by road closure required traffic flagging to alleviate gridlock at intersections near Gallo and Fwy 180.		\$36,959			
COR 006	Repair 15-Inch RCP Storm Drain	Unforeseen 15-inch reinforced concrete pipe storm drain was encountered within the RTM alignment. Contractor pursuing additional costs associated with repairing unmarked facilities.				\$5,000	
COR XXX	Unmarked Unknown 6-Inch Sewer at 633+81	An unmarked unknown 6-inch sewer was struck at station 633+81, on Olive Avenue west of Clovis. Change order request is for repair of sewer				\$5,105	
COR XXX	Unknown Utilities 518+74- 24" concrete pipe, 4" PVC, 1-1/2" steel pipe	Contractor found (and did not damage) three additional utilities that were not shown on plans. Change order request for the excavation and support of the utilities.				\$1,023	
COR XXX	Unknown Utilities - 8" Steel, 6" Steel, 24" SD at 492+33	Unknown utilities were found at Station 492+33. Change order request for the excavation and support of the utilities				\$10,000	
COR XXX	Unmarked Crossing Water Services- previously improperly abandoned in Caltrans 168 ROW (6)	Old water services in the 168 Right-of-Way were not properly abandoned and were not marked. Live stubs crossed the RTM alignment and required extra time to excavate and support until they could be terminated.				\$20,000	
COR XXX	Unmarked Unknown Gas and Water at 465+65 (Ninth and Olive)	Unknown utilities were found at Station 465+65 (Ninth and Olive). Change order request for the excavation and support of the utilities				\$7,500	
COR XXX	Repair of Unmarked Unknown Sewer in 8" Steel Casing Damaged at 460+10	Unknown unmarked sewer was damaged at 460+10. Change order request for the repair to the sewer				\$2,500	
COR XXX	Offsetting Credit for Weld Seam Alignment, 5 joints west of Clovis	Five RTM pipe joints have improperly aligned weld seams at joints. In lieu of repairing the pipe (which the design engineer believes has very low probability of failure), the Contractor proposes crediting the City \$12,000 per joint.				(\$60,000)	
Requests for Proposal							
RFP 003	Paleontological Monitoring	The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City. Number of monitoring days is to be determined.			\$107,901		
RFP 008	Removal of Abandoned Water Main	Removal and disposal of abandoned 12" water main between station 446+00 and 426+00 as determined by preconstruction potholing/surveying information.				\$30,000	4
Work Change Directives							
WCD 002	Crossing Guard	Per City's request, MCI to provide a crossing guard at the intersection of Peach Street and Olive Avenue for the duration of work involving the signal modifications that are set to "Flashing Red". The purpose of the crossing guard is to assist students walking to Turner Elementary; however, this Work Change Directive and Contractor's proposal, once agreed, shall be used for any future instances that may require a school crossing guard.		\$14,057			

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
WCD 004	Test Station Schedule Modifications	The RTM pipeline is steel, but has smaller diameter ductile-iron branches that are used to drain and bleed air from the RTM pipeline. At the branch connections, plumbing kits are installed in order to electrically separate/isolate the steel pipe from the ductile iron pipe in order to minimize possible future pipe corrosion. This WCD is for the Contractor to install permanent monitoring points at these branches to evaluate possible corrosion.				\$41,748	
WCD 005	Alignment Revision at Willow Ave.	A gas main was discovered in conflict at Olive Avenue and Willow Avenue after the project was bid but prior to construction. This WCD is for the realignment of the RTM at Willow.				(\$15,000)	
WCD 006	Alignment Revisions at Olive and Maple	Per SJVRR requirements, the Contractor was directed to install a steel casing to surround RTM pipe segments in the vicinity where abandoned railroad tracks are located on Maple Avenue. The requirement of a casing pipe was not identified until after the Contract was bid and thus not shown in the Project Plans.				\$95,369	
WCD 007.1	Additional CAV Assemblies	Contractor was directed to field-install two additional combination air valve assemblies to relieve air at new high points of the RTM due to field adjustments caused by utility conflicts/changed conditions.				\$45,000	
WCD 008	Asbestos Pipe and Alignment Change on Olive btw Minnewawa and Dewitt	Removal of transit pipe located within the trench zone of the RTM alignment				\$6,500	
WCD 009	NSF-61 Gaskets	The Contract specified flange gaskets materials that are not NSF-61 approved. Contractor was directed to furnish and install				\$17,253	
WCD 010	Alignment Revisions 511+50 to 507+00	A conflict with an unknown unmarked private house branch sewer necessitated a design realignment of the RTM. The RTM was realigned above the conflicting sewer				\$50,000	
WCD 011	Alignment Revisions 603+00 to 600+00	A conflict with an unknown unmarked private house branch necessitated a field change to lower the RTM by 2.5' for approximately 300 LF.				\$15,000	
WCD 012	Repair of Unmarked Traffic Signal Conduit at Ninth and Olive	An unmarked unknown traffic signal duct was struck at Ninth and Olive. Work change directive for Contractor to repair the duct and cable				\$10,000	
Change Orders							
CCO 001	Contract Change Order No. 1	COR 001 For safety reasons, the Contractor proposes adding crash cushions at the leading edge of concrete barrier wall (K-rail) near live-traffic lanes. \$40,380.99 RFP 001 The City provided a site for staging for the RTM projects prior to Contract Bid. This site is for storage of materials and field office trailers. The power for the field office trailers was to be supplied by overhead electric lines; however, it has been determined that the power lines only contain high-voltage power. This RFP is for providing metering cabinets, associated electrical work for bringing the high voltage power onto the site and transforming power supply to 110V for the field offices. \$17,202.06 RFP 002 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress. \$17,150.90 RFP 004 City requested that additional joint assemblies be furnished by the Contractor to enable efficient adjustment of pipeline alignment during construction, if required due to unknown utility conflicts. This will reduce cost risk associated with potential unknown conditions. \$12,159.12 WCD 003 Modify traffic control to create entrance for Beacon Gas on Olive Ave. \$1,388.72	\$88,282				0

Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A2**
 Project Number: **WC00065**
 Data Date: **07/10/17**

Original Contract Value: **\$18,204,180**
 Approved Contract Change Orders: **\$0**
 Current Contract Value: **\$18,204,180**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$0	\$49,983	(\$25,119)	\$472,922	20
Change Order Requests							
COR 001	Additional Pothole at Fresno Bore Pit	An unknown conduit was discovered by the Contractor prior to construction at the tunneling of the FID dry creek canal in Fresno south of McKinley. This conduit is in direct conflict with the installation of the work shaft for the tunneling construction. No utility claimed the conduit, and the Contractor is unable to construct the tunnel as designed. This RFP is issued to Floyd Johnston Construction (FJC) for the purpose of re-exposing the conduit in order to either confirm utility ownership or utility abandonment.		\$3,153			
COR 002	Unforeseen Utilities via SUE	The Contractor is pursuing costs to protect and install around 48 additional utilities that have been encountered during SUE investigations that were not shown on the Contract Plans.				\$164,476	20
COR 003	Removal of Additional Concrete - Fresno St. and Olive	The concrete surface on Fresno St. at the Olive intersection extended further than what was identified on the plans. This cost is for labor, equipment, and trucking involved for the concrete demo and removal.				\$4,000	
COR 004	Unforeseen 24-inch Storm Drain	An unknown and unmarked 24-inch RCP storm drain pipe was damaged during excavation. This pipe was not indicated on the plans, SUE, or by USA service locator marks. Cost is for the repair to return the utility to service.		\$4,327			
Requests for Proposal							
RFP 001	Access Manways	Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress.		\$9,144			
RFP 002	Traffic Control Mods - Fresno St. FID Xing	Traffic control changes necessary for safe access to/from San Joaquin Memorial High School during pickup and dropoff. Also, additional signage for 4-way stop signs at Floradora and Fresno Street.			\$9,131		
RFP 003	Additional Utility Investigations	Three unknown conduits were discovered by the Contractor prior to construction at the tunneling of McKinley and Blackstone. These conduits are in direct conflict with the installation of the work shaft for the tunneling construction. No utility claims these conduits, and the Contractor is currently unable to construct the tunnel as designed, and also cannot proceed with pipe fabrication. This RFP is issued to Floyd Johnston Construction (FJC) for the purpose of re-exposing the unknown utilities and tracing the utilities using a utility locator equipment in order to either confirm utility ownership or utility abandonment.		\$4,009			
RFP 004	Relocation of Blow-Off Assembly	The Owner requested to relocate the blow-off assembly at Station 249+63 to the left of the section line and station line to avoid conflict with the existing concrete median island. The Contractor shall ensure that the blow-off assembly is located in the center of the travel lane to avoid vehicle wheel paths.			(\$3,000)		
Work Change Directives							
WCD 001	Alignment Relocation of H Street Bore	Prior to construction, the Contractor located (previously unidentified) utilities that were in conflict with the installation of the Contract Work. Realignment of tunneling pits were necessitated to avoid conflicting utilities.				\$20,265	
WCD 002	Alignment Changes From Preconstruction Pothole Data	Prior to construction, the Contractor excavated test-holes to locate utilities that may conflict with the RTM pipe. On Palm, between Belmont and McKinley, the Contractor found utilities in conflict. This work change directive is for modifications to the RTM pipe prior to fabrication, and for the costs associated with installing the RTM deeper than the original design.				\$96,619	

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
WCD 003	Test Station Schedule Modifications	The RTM pipeline is steel, but has smaller diameter ductile-iron branches that are used to drain and bleed air from the RTM pipeline. At the branch connections, plumbing kits are installed in order to electrically separate/isolate the steel pipe from the ductile iron pipe in order to minimize possible future pipe corrosion. This RFP is for the Contractor to install permanent monitoring points at these branches to evaluate possible corrosion.			(\$31,250)		
WCD 004	Paleontological Monitoring	The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City. Number of monitoring days is to be determined.		\$23,749			
WCD 005	CMS Boards	As specified in the approved Traffic Control Plans, the Contractor shall furnish and install two additional CMS boards to direct Olive traffic through Belmont Avenue due to concurrent traffic control on other RTM segments.		\$2,445			
WCD 006	Flagging for Effie and Peralta	When westbound McKinley was closed east of Blackstone, traffic backed up on the side streets of Effie and Peralta. City of Fresno Water Division had significant impacts to their ability to access their Water Yard. After considering all other options, this work change directive was issued to the RTM Contractor to provide two flaggers to control traffic.		\$3,156			
WCD 007	Repair of Existing Street Conditions, Olive Ave and Fresno St	During construction, additional work was necessary in order to repair the existing roadway in Fresno Street and Olive Avenue. This work became necessary because the restoration work for the RTM construction abutted defective concrete and unsuitable soils that could have contributed to the failure of the newly restored roadway or created hazardous roadway conditions.				\$5,562	
WCD 008	Hydro-Excavation of PG&E Utilities	During construction at the intersection of Olive & Fresno St., PG&E mismarked their gas facilities and once located, PG&E stipulated work within two feet of existing gas utilities could not be performed by machine excavation. Per the changed requirements, the Contractor exposed the 6 and 12-inch gas utilities by methods of hydro vacuum excavation. Without any advanced notice, PG&E stopped the Contractor from performing machine-excavation around their gas mains at Fresno and Olive. The Contractor had crew and equipment onsite that necessarily was placed on stand by.				\$62,000	
WCD 009	Additional CAV at Hammond Ave.	A fiberoptic utility at Fresno and Hammond was potholed during construction and was found to be in conflict with the RTM. The pipeline was raised to cross over the fiberoptic utility. This adjustment in elevation necessitated the installation of a combination air/vacuum release valve.				\$25,000	
WCD 010	Additional Paving on McKinley - Blackstone to Wishon	Since McKinley Avenue was recently paved between Blackstone and Wishon, after bid (but prior to construction) Public Works requested additional 2" grind and overlay paving. Limits were established by City Engineer and City CM staff.				\$95,000	
Change Orders							
None							

Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1B**
 Project Number: **TC00096B**
 Data Date: **07/10/17**

Original Contract Value: **\$9,341,491**
 Approved Contract Change Orders: **\$0**
 Current Contract Value: **\$9,341,491**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$0	(\$10,658)	\$0	\$18,444	30
Change Order Requests							
COR 001	Potholing for Abandoned Chevron Line	After award of the construction contract, Chevron informed the City of an abandoned crude oil pipeline located within the railroad right-of-way at two of the recycled water pipeline crossings. The Contractor was directed to pot hole and verify the location of the crude oil pipeline crossings in order to confirm no conflict with recycled water pipeline construction.				\$6,444	
COR 002	Revised Trench Credit Costs	The Contractor proposed changes to contract requirements for pipeline trench size and configuration. Proposed changes were reviewed by the Engineer and found to be acceptable. The changes resulted in reduction of cost to the Contractor and savings to the City.		(\$87,201)			
COR 003	Agency Permitting Impacts	The Contractor has provided written notice of intent to pursue compensation for schedule delays and cost impacts associated with County of Fresno permit conditions and traffic control requirements, as well as additional railroad crossing permitting requirements. Merit for County of Fresno related issues has not yet been determined. At this time, the Contractor has provided only a general notice and has not yet identified specific changed conditions, costs, and other supporting information needed for merit review and change determination.				TBD	TBD
COR 004	Fiber Optic Conduit Crossing at Marks Ave.	The Contractor proposed an alternate method of construction for the fiber optic conduit crossing at Marks Avenue, similar to methods used for other similar crossings on this project. Use of the alternate method will simplify construction sequencing, facilitate County permitting, reduce traffic impacts, and minimize delay to execution of the work.		\$11,352			
COR 005	Extended Irrigation Season	Fresno Irrigation District extended the end of the 2016 irrigation season from August 31st, as identified in the contract plans and specifications, to September 30th.					30
COR 006	Petro Mat Removal	It was revealed during construction, that existing asphalt sections of Ave. had consisted of a previous overlay of a Petro Mat underlayer. Some areas of Petro Mat deterioration was shedding the remaining layer of asphalt. The City directed Contractor to remove and/or torch any loose delaminated material and continue with overlay asphalt application as originally specified.				\$3,000	
Requests for Proposal							
RFP 001.1	Additional Steel Pipe and Water Service	After award of the construction contract, the final tie-in point was moved to accommodate construction phase changes to the end-point of the SW1A recycled water pipeline. The revised tie-in location resulted in an increased depth and length to the SW1B piping approach run. Additionally, a recycled water service connection assembly was added on Belmont Avenue for the City municipal service yard neighboring City Fire House No.19.		\$52,224			
RFP 002	Additional Water Service Connections	Two future users for recycled water service were identified along the Cornelia Avenue alignment after award of the construction contract. Recycled water service connection assemblies were added to the work in order to accommodate the identified future users.		\$33,670			
RFP 003.1	Fiber Optic Conduit Railroad Crossings	Additional railroad agency requirements were identified after award of the construction contract that required changes to the installation alignment for the fiber optic conduit at two railroad crossing locations. In order to mitigate extra cost and further delays to the work, the fiber optic conduit crossings were deleted from the project. The fiber optic conduit crossings are planned for completion under separate future contract.		(\$30,736)			

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
RFP 004	Commercial Truck Fill Stations	The project work included five recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues.		\$10,033			
Work Change Directives							
WCD 001	Unidentified Telecommunication Conduits	Two buried telecommunication conduits were found to be in conflict with the new facilities during construction. The telecommunications lines were not identified on the project plans. The Contractor was directed to add additional pipe fittings and build the recycled water pipeline under the telecommunication obstacle.				\$9,000	
Change Orders							
None							

Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C**
 Project Number: **TC00096C**
 Data Date: **07/10/17**

Original Contract Value: **\$4,198,175**
 Approved Contract Change Orders: **\$269,718**
 Current Contract Value: **\$4,467,893**



APPROVED AND PENDING CHANGES							
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Additional Time (Days)
Total			\$269,718	\$10,293	\$0	\$0	3
Change Order Requests							
COR 001	Petro Mat Removal	It was revealed during construction, that existing asphalt sections of Belmont Ave. had consisted of a previous overlay of a Petro Mat underlayer. Some areas of Petro Mat deterioration was shedding the remaining layer of asphalt. The City directed Contractor to remove and/or torch any loose delaminated material and continue with overlay asphalt application as originally specified.		\$2,798			
Requests for Proposal							
RFP 005	Additional Recycled Water Service Stub	Beth Israel Cemetery on Belmont Avenue was identified as a future user for recycled water after award of the construction contract. A buried recycled water pipe connection stub was added to the work to accommodate future piping into the cemetery.		\$7,495			3
Work Change Directives							
None							
Change Orders							
CCO_001	Contract Change Order No 1	RFP 001.1 - After award of the construction contract, high-speed rail development plans within the City were identified that were in conflict with the planned future project route of the recycled water pipeline feed to downtown Fresno. The future downtown design route for the recycled water pipeline was therefore changed, resulting in increased pipe size for a majority of the SW1C piping within Roeding Park. The redesigned SW1C pipeline also included additional recycled water service connection assemblies inside Roeding Park, on Parkway Drive, and along Belmont Avenue to accommodate additional future users identified during the redesign time frame. \$246,511.92 RFP 002 - Caltrans was identified as a future user for recycled water service at the Highway 99 crossing location after award of the construction contract. A recycled water service connection assembly was added to the work to accommodate planned future Caltrans use. \$19,192.77 RFP 003 - The project work included two recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues. \$4,013.12	\$269,718				0