



DEPARTMENT OF PUBLIC UTILITIES

CAPITAL IMPROVEMENT PROGRAM LARGE CONSTRUCTION CONTRACTS CHANGE STATUS REPORT

October 31, 2017
(Data through October 31, 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	W.M. Lyles Company
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	TC00096-SW1B	Garney Construction Co.
Recycled Water Transmission Main SW1C	TC00096-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.

Project Name: **Friant-Kern Canal Pipeline Project**
 Project Number: **WC00038-FKCP**
 Data Date: **10/30/17**

Original Contract Value: **\$15,157,862**
 Approved Contract Change Orders: **\$787,223**
 Current Contract Value: **\$15,945,085**



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			\$787,223	\$169,300	\$0	\$573,479	96
Change Order Requests							
COR 005	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 006	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.				\$178,360	
COR 008	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	
COR 010	Groundwater at STA 316+00	This request of change pertains to the presence of groundwater which the Contractor claims is not indicated in the Contract Documents near station 316+00.				\$1,627	
COR xxx	11/08/2016 Notice Canal Availability Delay TRA 0068	According to the baseline schedule and the terms of agreement which governs this project, the Friant-Kern Canal was to be turned over to the Contractor with minimal water or no water flow. Due to issues and complications, the Friant Kern Canal will not be available for work to start until two weeks later.				\$50,000	
COR xxx	Change Conditions -- Rock Excavation	The Contractor is claiming that the subsurface conditions east of Big Dry Creek were harder than anticipated.				\$75,000	
COR xxx	06/12/2017 Notice Garfield Backfill Delay TRA 0206	Due to communications with Garfield District, the Contractor was notified not to proceed with repairs of backfill of the 36" Garfield Line until confirmation was received.				\$25,000	
COR xxx	07/07/2017 CTS Delay TRA 241	Due to the California Tiger Salamander, work was restricted, and additional work was required to build boxes around dewatering pumps such that the larvae would not be harmed.				\$3,504	
COR xxx	09/05/2017 Notice NESWTF Pipe Misalignment Delay TRA 0293	The existing 60" connection point at the NESWTF is 5.14' to the east and approximately 0.08' lower than where it is shown on the revised Sheet 26. The existing 36" connection point on the raw water header is approximately 0.67' higher than where it is shown.				\$50,000	
COR xxx	Cal Valley Demob	The Contractor had to demobilize CalValley because the pavement could not be placed at that time.				\$7,500	
COR xxx	Remob to PGE Xing	Remob to PGE Xing				\$12,500	
COR xxx	Loss Production Due to Design Error TRA 0101	There was a design error at the NEWSTF, and it took months to complete a new design to give to the Contractor.				\$100,000	
COR xxx	Remove mud from trench at STA 249+00	Remove mud from trench at STA 249+00				\$15,000	
COR xxx	Replace bubble irrigation on Lemur property	During pipe laying operations, existing, unmarked, and buried bubblers on the property owner's irrigation system were broken.				\$7,500	
COR xxx	NESWTF Conduit	While excavating at the NESWTF, the Contractor found an unmarked electrical conduit.				\$2,500	
COR xxx	Plant Pipe Support Change	The pipe support as designed was in conflict with nearby fittings. Contractor had to move the pipe support.				\$8,000	

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)
COR xxx	Expose Failed CLSM	Lab results showed that the CLSM poured at approximate STA 333+00 did not pass the specification. The contractor was directed to dig up the CLSM at least 20 feet on either side of the pipe at that station.				\$5,000	
Requests for Proposal							
none							
Work Change Directives							
WCD 007	Property Owner Gates	Two additional 14' access gates are required on the Leshler property. Additional gates are needed to be ordered because the original gates are too small for Leshler's equipment to pass through the gates.		\$1,700			
WCD 008	Security System Alarm	Based on the lack of complete information in the Contract Documents and the City's actual needs at the turnout control building, MCI and Subcontractors are to install a door proximity switch and keyed bypass provided by the City. The switches will be wired to slot 2 channels 0 and 1, respectively, of the turnout control building ICP as indicated in the I/O list as a part of the response to RFI No. 110.		\$5,000			
WCD 010	Additional Property Owner Gates	Two additional 14' access gates are required at approximate STA 127+00 and 133+00 on the Leshler property. These gates will allow City access to the blow off located at Station 131+00 which is to the west of the Leshler fence and only accessible through the Leshler property. The remaining three gates, if necessary, will be installed at the location provide by the FKCP Construction Manager of Construction Inspector. This is a per unit item as per bid.		\$5,100			
WCD 011	Well 185 Connection	The current design has a misalignment with the proposed tie-in location for Well 185 at the Northeast Surface Water Treatment Facility. The current design requires the Contractor to tie into the valve that tee's off the existing line coming from Well 185. This connection point is 6'3" off station and 5 15/16" higher than the outlet on the 36"x 12" WS tee. Per this WCD, the Contractor is to provide costs for the additional materials to make this connection.		\$10,000			
WCD 012	Big Dry Creek Improvements	Due to the rain and flooding in the winter of 2016/2017, the banks and stream bed of Big Dry Creek in the construction area has eroded leaving unstable soil and a punchbowl basin downstream of the soil cement backfill. The soil cement installed by the Contractor to backfill the pipeline excavation did not erode as had been anticipated to match the existing native material. Therefore, the Fresno Metropolitan Flood Control District (FMFCD) is not satisfied with how the stream has been left. FMFCD has provided direction as to how FMFCD wants the creek bed modified. The City has directed the Contractor to complete additional improvements to restore the channel. Completion of work is dependent in obtaining necessary permits from the various Agencies involved.		\$30,000			
WCD 013	NESWTF Buttstraps	Due to inaccuracies of the tie-in location at the plant, the length of pipe needs to be adjusted. A small piece connecting with two buttstraps is needed to make up the difference.		\$10,000			
WCD 014	Existing 60" Pipe Repairs	RFP 013: The existing 60" steel pipe to which the Friant-Kern Canal Project is to connect to at Willow Avenue and the North-East Surface Water Treatment Facility was inspected in May 2017. The existing pipeline was constructed approximately 10 years ago, and has set unused during that period. The inspection revealed several minor deficiencies in the mortar lining. These deficiencies include cracking, point repairs, holes, delamination, and joint offset issues. The inspection also revealed the pipe has deflected and has become oval in shape.		\$75,000			
WCD 015	Foothill Shoulder Material	The current approved recycled Class II AB material which is acceptable base material under the AC on Foothill Lane will not make a suitable driveable surface for the shoulder due to dust concerns. Contractor is directed not to place the recycled AB material presently on site and use a recycled asphalt grinding.		\$9,000			

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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 016	Request for Excavator Standby	This WCD is in direct relation to work work described in WCD 012. The purpose of this WCD was to hold the excavator on-site for improvements in Big Dry Creek. The contractor was going to move the equipment off-site because they are done with the equipment for other work. Standby costs were occurred to keep the equipment on-site.		\$5,000			
WCD 017	Meter Vault Pitot Tube Changes	After conversations with USBR, the original pitot tube locations will no longer work. Only one pitot tube is now required, and the pitot tube is now longer than originally anticipated. At the currently location, there is not enough room to fit the pitot tube into the pipe. Therefore, the hole will now have to be located on the upper portion of the pipeline to allow for enough clearance.		\$3,500			
WCD 018	CLSM in Willow Ave	Due to saturated subgrade in the southbound lane of Willow Avenue, CLSM is needed to get a stable subgrade for paving.		\$7,500			
WCD 019	CLSM in Copper Ave	Due to saturated subgrade in the eastbound lane of Copper Avenue, CLSM is needed to get a stable subgrade for paving.		\$7,500			
WCD 020	Meter Vault Platform	After conversations with USBR, the pitot tube locations were edited per WCD 017. In order for USBR to safety install the pitot tube at the new location, a platform with ladder is required for two personnel to safety insert the pitot tube into the pipe.				\$10,000	
WCD xxx	Friant-Kern Canal Road Restoration	After conversations with USBR, the Friant-Kern Canal Road is in disrepair due to construction traffic using it for access to the diversion site. The road is to be repaired with new asphaltic-base material to the satisfaction of USBR per the agreement.				\$8,000	
Change Orders							
CCO 001	Contract Change Order No. 1	<p>WCD 001 -Excavation on Burrows: Contractor provided labor and equipment to support excavation of burrows per environmental permits. Cost increase of \$54,432.86.</p> <p>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</p> <p>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.</p> <p>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.</p> <p>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 placing cement mortar grout. Cost credit of \$124,397.00</p>	(\$70,274)				0
CCO 002	Contract Change Order No. 2	<p>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</p> <p>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</p> <p>COR 004 - This change is associated with all extra work associated with the corrections necessary to bring the fencing of the Leshar Property into agreement with the Leshar 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 Leshar MOU. \$29,822.59</p> <p>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</p> <p>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</p>	\$53,101.73				0

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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 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					
CCO 003	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%. \$38,700 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. \$25,500 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. \$23,454 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. \$35,486 WCD 002 - This change provides weather related maintenance required to Foothill Lane temporary road to maintain safe access to residents and emergency responders. \$85,000 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. \$3,755.50 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	\$284,395.50				0
CCO 004	Contract Change Order No. 4	COR 007 - 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. \$27,000 WCD 009 - NESWTF Redesign Total - This change is for costs associated with the recent redesign of water supply piping connecting the FKCP to the NESWTF plant. The purpose of the change was to provide the City with flexibility to feed the NESWTF from multiple sources simultaneously for improved water production reliability. WCD 009 supersedes WCD 003 REV1 Procurement of NE Redesign Materials and WCD 004 Procurement of Flow Meter Spool Pieces. \$493,000.	\$520,000.00				96

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)
		<p>COR 009 - Excess inclement weather days. MCI requested a total of 140 Inclement Weather Days (IWDs) through May 03, 2017. Parties agreed that a total of 109 IWDs are valid. Since the contract baseline includes an allowance of 13 IWDs, a total of 96 excess IWDs will be added to the contract time.</p> <p>The June/July 2017 Schedule Update incorporates the 96 excess IWDs as well as accurate activity status data through July 2017 including the time impacts of the contractor's claimed delay events. Both parties agree that the June/July 2017 Schedule Update shows full schedule recovery with 28 days of float.</p> <p>The contractor agrees that the June/July 2017 Schedule Update sets schedule Activity TEST 110- Pressure Test 60" and 42" Pipe to start on or before September 1, 2017. This will provide at least 30 calendar days to complete the activity and effect any necessary leak repairs (i.e. excavation to expose leaks) prior to the start of CTS breeding season on October 1, 2017.</p>					

Project Name: **Kings River Pipeline Project**
 Project Number: **WC00057-KRP**
 Data Date: **10/30/17**



Original Contract Value: \$45,583,750
 Approved Contract Change Orders: \$246,608
 Current Contract Value: \$45,830,358

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			\$246,608	\$177,090	\$138,779	\$108,500	64
Change Order Requests							
COR 006	Adverse Weather Days	Garney requested a total of 21 Adverse Weather Days (AWDs) from October 28, 2016 to February 20, 2017. Parties agreed that all 21 AWDs are valid and that at least 50% of critical path work was impacted due to weather conditions. Since the contract baseline includes an allowance of 1 AWD in October, 1 AWD in November, 2 AWDs in December, 13 IWDs in 2017, a total of 4 excess AWDs will be added to the contract time.					4
COR 007	Unmarked Free Water Irrigation Crossing	At the intersection of Belmont and Trimmer Springs Avenues, an unmarked 18" irrigation line owned by the Free Water Irrigation District was discovered. Additional work was required to stabilize and suspend the pipeline. Production of the 72" pipe was impacted due to work around the unanticipated pipeline.			\$ 71,919.77		
COR 008	Cobble Zone Traffic Control	Due to public safety concerns, additional traffic control measures were required to route traffic safely around the work zone from Trimmer Springs Road to Flume Road.			\$3,337		
COR 009	Unmarked Communication Line 330+90	An unmarked communication line was discovered while excavating for pipe installation. A change of slope to the pipeline was required to clear the communication line. The change in slope of the pipe resulted in addition work for the Contractor.			\$3,418		
COR 011	Unmarked Concrete Irrigation Weir	A possible historic, unmarked concrete structure was discovered approximately 8 feet below the ground surface in the pipeline trench. Production stopped the allow for a determine of the origin and purpose of the structure by the project archeologist. It was determined that the structure was a weir which had be placed in an irrigation ditch which had been filled in and was now covered by Trimmer Springs Road. The determination that the structure should be measured and photographically documented by the project archeologist and then broken up and removed by the Contractor. The delay covered two work days.			\$15,828		
COR 014	Unmarked AT and T Line at 108	Contractor encountered an unmarked AT&T line at Station 107+95. The communication line was not shown on the project drawing or located in the field by the utility locator. The communication line was in a steel conduit which the contractor damaged. AT&T was called to repair the damaged line. AT&T found a second steel conduit below the damaged conduit and decided to install the communication line in the second conduit. Second conduit was in conflict with CARV outlet on conveyance pipe. Contractor directed by the CM to move CARV 40 feet to east by installing a straight section of piping out of sequence to avoid conflict. Contractor delayed by AT&T response and need to lay pipe out of sequence to avoid CARV conflict.			\$16,701		
COR 015	Unmarked AT and T Line at STA 120+00	Encountered two unmarked utility line in the vicinity of Station 120+00. The communication line (AT&T) was shown on the contract drawings or marked in the field by the utility locator. Contractor experienced delays while AT&T responded to the damaged utility.			\$12,537		
COR 016	Unmarked PG and E Line at STA 120+00	Unmarked PG&E lines at Station 120+00 was in close proximity to AT&T communication at Station 120+00 as indicated in COR 015. PG&E line was not shown on project drawings and was not marked in the field by the utility locating service. Contractor damaged line at the same time at the AT&T line referenced in COR 015. Delay was simultaneous with the communication line. COR 016 should have been included in COR 015. CM denied COR 016.				\$0	

APPROVED AND PENDING CHANGES							
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COR xxx	11/01/2016 Notice of Traffic Control Impact	At the September 28, 2016 meeting with the County of Fresno, they raised concern with conflicting traffic control detours on Armstrong Ave. The Contractor wanted to start mainline installation on Armstrong Ave at approximate STA 17+45. The traffic control and closure of Armstrong Ave. would conflict with other existing traffic control related to southeast plant work. The County indicted that work would have to start at approximate STA 30+00 to avoid conflicts.				\$2,500	
COR xxx	11/16/2016 Notice of Traffic Control Impact	At the November 9, 2016 meeting with the City of Fresno, they raised concern with the proposed start date of November 10, 2016 of the mainline heading on Belmont Ave. Garney's plan was to start mainline installation on Belmont Ave. at approximate STA 30+00. The City would not allow closure on November 10, 2016 due to the City holiday on November 11, 2016.				\$2,500	
COR xxx	01/09/2017 County Permit Delays	The riders were not being issued by Fresno County.				\$2,500	
COR xxx	Unmarked Pond Drain Line Lost Production	It is anticipated that Garney will claim lost production for an unmarked drain line near STA 647+00.				\$5,000	
COR xxx	Share FID Culvert Crossing	It is anticipated that Garney will claim lost production and additional costs related to skilling the FID culvert and installing it out of sequence.				\$75,000	
COR xxx	Share CID Culvert Crossing	It is anticipated that Garney will claim lost production and additional costs related to skilling the Consolidated Irrigation Ditch (Lone Tree No. 4) culvert and installing it out of sequence.				\$50,000	
COR xxx	Change Condition Concrete Debris Fancher	It is anticipated that Garney will claim lost production for unanticipated debris in Fancher Creek.				\$25,000	
COR xxx	Reimbursement for Rectifier Design & Maint	Due to a non-conformance issuance of the pipe primer, Garney is responsible for either digging up and fixing the joints or installing a rectifier system with associated design and maintenance fees. Per Garney's suggestion, a rectifier system has been selected. Details to come on the specifics.				(\$120,000)	
COR xxx	Pavement Profilograph	The City agreed to pay for the inertial profiler on Belmont Ave from Harvey to Academy Avenues if the pavement has no defects.				\$5,000	
Requests for Proposal							
RFP 004	Armstrong Paving	The quality of the pavement on Armstrong Avenue between Station 10+00 to Station 14+00 was such, that any construction activity could destroy the current pavement or leave a portion of the existing poor quality pavement adjacent the new pavement. The City agreed to the County request to replace the entire paved surface and to match the pavement recently installed by the SESWTF contractor. The City has agreed to pay the cost of the additional paving beyond that required by Contract of the Garney Construction. The County has agreed to the pavement being replaced with 4-inches of HMA of 8-inches of compacted AB with a 2% cross slope (See Rider 19, Item 11 and RFI 064). This request is for costs associated with approximately 400 linear feet of 12-foot wide 4"/8" paving from STA 10+00 to STA 14+00 which proceeds to the north side of the intersection of Armstrong and Harvey Avenues.		\$52,071			
RFP 005	Air Release Valves	This change adds small diameter air relief vents in the pipe access manways covers allow for release of air during the filling of the pipe and to aid in release of air trapped in the access manways to expedite the hydrostatic testing of the pipeline. The air release valves will provide future City workers with a means to remove air from the pipeline during future maintenance activities.			\$15,038		
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 rotated 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.		\$3,000			
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.		\$7,865			

APPROVED AND PENDING CHANGES							
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WCD 005	CARV at STA 100+20	CARV installed as per plans. Property owner has informed the City that the CARV is in conflict with his gate and will prevent future development of his property and has requested the CARV be relocated. The CARV to be relocated to the east of present location.		\$5,605			
WCD 006	CARV at STA 308+22	CARV install within right-of-way but too close to the property owner orchard. 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.		\$5,605			
WCD 007	Mr. Warmerdam Driveways	In Mr. Warmerdam's easement document, it states that his driveways are to be sawcut at the property line transition to the new paving. After the paving was completed, Mr. Warmerdam pointed out that the transition was not along the property line and left damaged pavement between property line and new paving. To fix the driveways, one will need to be sawcut and replaced with new paving for approximately 2 feet and the other for approximately 4 feet.		\$12,107			
WCD 011	CAV at STA 34+77.80	As designed, the CAV and appurtenances are located too close to the AT&T pole south of Belmont Ave. The CAV is to be installed east of its current location.		\$5,605			
WCD 012	AM at Academy Ave	Due to the field change required to pass the pipeline under an existing utility east of Academy Ave which was found to be lower than indicated on the design drawings, the Design Engineer determined the Contractor is to install a pup piece of pipe with an access way at approximately Station 372+00 to address the change in elevation of the pipeline. This change requires the Contractor to have an addition piece of pipe fabricated and to install said piece at Station 372+00. The installation will require the contractor to expose the previously place pipe, cut and remove a 10 foot section of the existing pipe and replace with the new pup piece containing the access way. The pup piece will be connected with the use of two welded buttstraps. The Contractor is to then backfill and compact the excavation and then repave Belmont Avenue in the area of the work.		\$67,534			
WCD 013	Roads Signs	As the result of mainline installation, Garney has damaged or completely destroyed various road signs (including bike path signs) throughout the project area. Garney is to repair or replace all road signage, in-kind, as soon as possible as the lack of signage can be a safety hazard to the traveling public. Determination as to adequacy of proposed repairs will be made by the Construction Manager. Per the contact, the Contractor is responsible for replacing any existing items damaged during construction.		\$0			
WCD 014	Provide CHP at Trimmer Springs Ave.	Due to complaints and a request by the residents on Flume Road to do a better job at controlling the speed of vehicles being detoured on to Flume Road due to the construction of the KRP pipeline on Trimmer Springs Road. Project Management requested the Contractor to obtain the services of a dedicated California Highway Patrol (CHP) officer to patrol the construction area to reduce traffic speed and to improve the safety to all that travel through the construction zone. As part of this request the City agreed to share in 50% of the cost for the CHP officer.		\$17,700			
WCD xxx	Diversion Electrical Enclosure	The City has requested for an enclosure around the electrical panels at the diversion site to keep the electrical equipment in air conditioning and to help with security. The electrical concrete pad will have to be extended to accommodate the new building.				\$50,000	
WCD xxx	Turbidimeter Move	The City has requested that the turbidimeter be moved from the meter vault to the new diversion site electrical enclosure. A pH unit will also need to be installed as it was not shown on the drawings but required.				\$8,000	
WCD xxx	Security Conduit	An additional conduit may be required from the antenna tower to the electrical panels for power and communications of the security cameras on the antenna tower.				\$3,000	
Change Orders							

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)
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 commission SESWTF on schedule. This is a no cost change for this CCO.					60
CCO 002	Contract Change Order No. 002	<p>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</p> <p>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</p> <p>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</p> <p>RFP 003 - This change responds to Design Engineer's recommendation that tracer wire is no longer needed for this project. Credit of \$17,958</p> <p>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</p>	\$54,830				
CCO 003	Contract Change Order No. 003	<p>COR 001 - 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. \$127,333.45</p> <p>COR 004 - 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. \$56,056.00</p> <p>COR 005 - 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. \$8,389.07</p>	\$191,779				0

Project Name: **Southeast Surface Water Treatment Facility**
 Project Number: **WC00057-SESWTF**
 Data Date: **10/30/17**



Original Contract Value: \$158,766,000
 Approved Contract Change Orders: \$2,338,038
 Current Contract Value: \$161,104,038

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			\$2,338,038	\$61,011	\$308,664	\$1,000,000	0
Change Order Requests							
COR xxx	Add Security System to Contract	This change order item adds a complete security system for the South East Surface Water Facility and the Kings River Diversion Site. The security system conforms to the U.S. Department of Homeland Security 2010 Water Sector Specific Plan for critical infrastructure strategies for drinking water facilities. It is an integrated system including cameras, keyed entry devices, motion detectors, intrusion monitors, and a central control station. (COP xxx -- RFP 010)				\$1,000,000	
Requests for Proposal							
None							
Work Change Directives							
None							
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)				
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)				
CCO 003	Contract Change Order No. 3	COR 004 -- VECP 001 -- Modify Site Perimeter 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 Schedule 80 PVC pipe to and HDPE dual wall corrugated pipe. Credit \$59,633.	(\$156,564)				
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 system device locations. Cost increase \$19,573.	\$126,520				

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)
		<p>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.</p> <p>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.</p> <p>COR 001 -- COP 006 -- Add additional exit sign in the Ozone Facility lower level. Cost increase \$1,424.</p> <p>COR 002 -- COP 007 -- Add additional conduit tags for heat trace wire. Cost increase \$3,680.</p> <p>RFP 007 -- COP 005 -- Reroute 36-in BWS pipeline to provide more efficient flow and less opportunity for air entrainment. Cost increase \$8,461.</p> <p>RFP 009 -- COP 003 -- Revise landscaping plan to mitigate for removal of large California Live Oak. Cost increase \$4,245.</p> <p>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.</p> <p>WCD 003 -- COP 004 -- CM directed abandonment of old water well on site. Cost increase \$3,168.</p> <p>WCD 002 - COP 011 -- CM directed removal of old residential garbage dump on site. Cost increase \$14,649.</p>					
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				
CCO 006	Contract Change Order No. 6	<p>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</p> <p>RFP 015 -- COP 012 -- Add several conduits and cables to support the required ozone emergency shutoff switches. Cost Increase \$5,590</p> <p>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</p> <p>RFP 021 -- COP 013 -- Miscellaneous changes to electrical service to plumbing fixtures. Cost Increase \$9,560</p> <p>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</p> <p>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</p> <p>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</p>	\$265,119				
CCO 007	Contract Change Order No. 7	<p>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. Cost increase \$2,018.00</p> <p>COR 009 -- COP 034 -- Revised wall opening at two locations for connection between Ozone and Filtration processes. Cost increase \$24,876.00</p> <p>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</p> <p>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. Cost increase \$60,156.00</p>	\$103,837				

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 027 -- COP 027 -- Several miscellaneous changes to the piping in Floradora resulted from CoF and FID plan checks at beginning of project. Cost increase \$10,790.00					
		RFP 036 -- COP 032 -- Change modifies the connection detail for the CAV line to the 16-inch potable water line. Cost increase \$6,674.00					
		RFP 046 -- COP 033 -- Provides revisions to the ozone destruct vent piping based on manufacturer's recommendations. Timing was urgent on this item. Cost increase \$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) Cost increase \$16,796.00	\$469,975				
		COR 011 -- COP 045 -- Make multiple changes in electrical feeder sizes resulting from clarifications provided in RFI 0131. (RFI 0131) Cost increase \$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) Cost increase \$3,694.00					
		COR 013 -- COP 052.1 -- Change the components of the VPN Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine for all VPN communications. (RFI 0228) Cost increase \$67,559.00					
		COR 014 -- COP 057 -- Change the CTS Diffuser material from PVC to stainless steel. (RFI 0231) Cost increase \$9,531.00					
		COR 015 -- COP 062 --Change two in-line Polymer diffusers from PVC to Hastelloy C per manufacturer recommendation. Cost increase \$2,583.00					
		COR 016 -- COP 066 -- Change the components of the VOIP & Communications Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine. Cost increase \$116,785					
		RFP 052 -- COP 060 -- Modify the Ops Building Entryway Sunshade to coordinate with CMU wall configuration. (DC 066) Cost increase \$2,137.00					
		RFP 026 -- COP 036 -- Change configuration of local control panels for field equipment. (DC 042) Cost increase \$ 6,358.00					
		RFP 033 -- COP 035 -- Modify offsite street lighting configuration as result of CoF plan checks at beginning of project. (DC -029) Cost increase \$67,363.00					
		RFP 035 -- COP 043 -- Modify the telephone service conduits to accommodate AT&T revised service plans. (DC 045) Cost increase \$15,750.00					
		RFP 041 -- COP 039.2 -- Provide plates to cover trenches under access manways to Ozone Contact Basins. (DC 050) Cost increase \$6,736.00					
		RFP 044 -- COP 040 -- Provide revisions to main operator room entrance for added security. (DC 055) Cost increase \$2,566.00					
		RFP 045 -- COP 042 -- Change turbidimeters to align with the City's standards. (DC 056) Cost increase \$27,594.00					
		RFP 046 -- COP 049 -- Provide connection on 72-inch Raw Water Pipeline for future extension to the T3 facility. (RFP 078) Cost increase \$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) Cost increase \$6,573.00					
		RFP 049 -- COP 056 -- Add CAV Valves on various high points on the site PW Line loop. (DC 060.1) Cost increase \$5,687.00					
		RFP 050 -- COP 058 -- Add CAV Valves on 6" PW south end of the Operations Building. (DC 064) Cost increase \$5,163.00					
		RFP 051 -- COP 059 -- Provide security screen on the Perimeter Wall Opening stormwater overflow section. (RFP 009) Cost increase \$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). Cost increase \$2,613.00					

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 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) Cost increase \$6,281.00					
CCO 009	Contract Change Order No. 9	RFP 022 WQ -- COP 018.1 -- Add mixers to the two Caustic Soda Tanks (DC 036) Cost increase \$110,696.00	\$543,385				
		RFP 024 WQ -- COP 020 -- Add a tap on the Raw Water Pipe for injection of Sodium Hydroxide. (DC 038) Cost increase \$15,002.00					
		RFP 034 WQ -- COP 041 -- Add electrical and instrumentation for mixers on two Chemical Storage Tanks. (DC 044) Cost increase \$72,456.00					
		RFP 037 WQ -- COP 038 -- Add a Lime Fill Access Station in the Chemical Building. (DC047) Cost increase \$21,706.00					
		RFP 039 WQ -- COP 031 -- Add a tap on the Treated Water Pipe Tap for injection of CO2. (DC 039) Cost increase \$27,592.00					
		RFP 040 WQ -- COP 044.2 -- Add three caustic chemical feed pumps. (DC 049.1) Cost increase \$34,231.00					
		RFP 043 WQ -- COP 046 -- Make modifications to the Caustic Tanks to convert two for Sodium Hydroxide. (DC 053) Credit \$8,187.00					
		RFP 042 WQ -- COP 048 -- Add roof hatches to the two lime tank roofs. (DC 052) Cost increase \$19,379.00					
		RFP 047 WQ -- COP 053 -- Delete two Sodium Hydroxide System mixing eductors.(DC 067) Credit \$5,243.00					
		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) Cost increase \$255,753					
CCO 010	Contract Change Order No. 10	COR 017 -- COP 068 -- Reimbursement for extra Design Engineer cost required by Contractor selected substation transformer foundation requirements.	\$198,063				
		COR 018 -- COP 071 -- Add fire smoke dampers, including associated electrical and access hatches, to meet requirements of the specified clean agent fire suppression system in the Server Room.					
		COR 019 -- COP 071 -- Add capability to control the TWPS discharge based on flow rate as an alternative to the specified system pressure control.					
		COR 020 -- COP 075 -- Change specified radios to allow operation with the specified broadcast frequencies.					
		COR 021 -- COP 079 -- Add structural stiffeners around electrical penetrations in 2nd floor metal decking in Ops Building in response to City Building Inspector comments/requirements.					
		COR 022 -- COP 064 -- Modify architectural resin panels based on DE review comments to provide additional resin panels at door jambs and headers, additional plywood backing, and additional painting.					
		RFP 056 -- COP 069 -- Delete color-code painting of indoor PVC chemical feed piping and add color bands.					
		RFP 057 -- COP 070 -- Add 480VAC 3-phase power service, disconnects, conduit, and cabling for the Maintenance Building Bridge Crane.					
		RFP 058 -- COP 076 -- Add remote valve actuator control stations for the two butterfly valves located in the Flow Control Vault.					
		RFP 059 -- COP 077 -- Increase size of four (4) ozone side stream motors from 25 HP to 40 HP and increase size of power feed conduits and cables.					

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 060 -- COP 078 -- Add precast drain outlet into the onsite detention basin and 90-feet of 24-inch storm drain pipe to drain the southwest corner of site.					
		RFP 061 -- COP 080 -- Modify the Olive Avenue site entrance to provide a paved truck turn-around area on the street side of the security gate.					
		WCD 009 -- COP 072 -- Provide soil cement treatment to stabilize saturated subgrade materials in Olive Avenue.					
		WCD 010 -- COP 072 -- Relocate approximately 181 feet of 12-inch private irrigation pipe, including three 23-inch standpipes, found in the intersection of Armstrong Ave and Floradora Ave. This pipeline was not shown on the drawings.					
		WCD 011 -- COP 073 -- Provide temporary relocation of an existing direct-buried telephone line on Armstrong Ave. This telephone line was not shown on the drawings.					
Draft CCO 011	Draft Contract Change Order No. 11	COR 023 -- COP 081 -- Relocate and modify the filter underdrain access covers.			\$16,755		
		COR 024 -- COP 089 -- Modify the Operations Building HVAC grills by providing T-Bar grill adaptors and remote linkage dampers for balancing			\$6,347		
		COR 025 -- COP 088 -- Add conduits and junction boxes at all doors to accommodate the security system design and minimize subsequent costs associated with installation of door security system components.			\$7,263		
		RFP 038 -- COP 082 -- Add conduits and junction boxes at all doors to accommodate the security system design and minimize subsequent costs associated with installation of door security system components.			\$80,119		
		RFP 062 -- COP 086 -- Provide additional electrical/control equipment, conduits, and cables to support the site sewer discharge metering flume.			\$80,553		
		RFP 063 -- COP 087 -- Modify the plant potable water supply backflow prevention system by deleting the two 16-inch centralized backflow prevention devices and adding 10 decentralized backflow prevention devices to meet the pressure requirements of the Fresno Fire Department.			\$117,627		
		WCD 012 -- COP 083 -- Provide a connection to the distribution system at a 16-inch water line on Olive Avenue east of Armstrong Avenue. This connection from the easterly end of the new 48-inch treated water main will improve service and allow circulation of water in the treated water main.		\$18,544			
		WCD 013 -- COP 084 -- Modify the alignment of the new 16-inch distribution water line on Fowler Avenue south of Olive Avenue to accommodate unmarked utilities.		\$21,256			
		WCD 014 -- COP 085 -- Subsequent to bidding the SESWTF work, AT&T decided to install new underground conduits in the Fowler/Olive intersection. This change required sequencing coordination during the installation of water/sewer/storm drain pipelines and rebuilding of the Fowler Avenue and Olive Avenue intersection with AT&T.		\$21,211			

Project Name: **Phase 2 Regional Transmission Main - Segment A1**
 Project Number: **WC00065**
 Data Date: **10/30/17**



Original Contract Value: **\$28,471,884**
 Approved Contract Change Orders: **\$344,084**
 Current Contract Value: **\$28,815,968**

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			\$344,084	\$216,776	(\$15,000)	\$1,023	0
Change Order Requests							
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 006	Repair 15-Inch RCP Storm Drain	Unmarked 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 007	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 008	R&R 6" sewer + pothole unmarked fiber optic line	Coordination and construction modifications to deal with unmarked utilities.		\$3,256			
COR 017	Unmarked utility @ 496+00 - 495+49	Contractor struck an unmarked 3/4" water service at Station 496+00 and an unmarked 1-1/2" water service at Station 495+49. Contractor pursuing additional cost associated with repairing the facilities.		\$2,199			
COR 018	Unmarked water line @495+20	Contractor encountered unmarked water line at Station 495+20 and is pursuing additional cost associated with the repair.		\$3,010			
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	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)	Unmarked utilities were found at Station 465+65 (Ninth and Olive). Change order request for the excavation and support of the utilities.		\$5,000			
COR XXX	Unmarked utilities @ 654+78	Coordination and construction modifications to deal with unmarked utilities.				\$1,023	
COR XXX	Unmarked utilities 8" steel, 6" steel, 24" SD	Coordination and construction modifications to deal with unmarked utilities.		\$6,966			
COR XXX	Unmarked utility @ 602+22	Coordination and construction modifications to deal with unmarked utilities.		\$5,140			
COR XXX	Unmarked utility @ 465+69	During pipe trench excavation, Contractor hit a steel traffic control conduit at Station 465+69 that was not shown on the plans. Steel plates were required to hold pipe trench walls due to unstable soil. Larger 12'x20' steel shields were required due to the location of the conduit.		\$6,203			
Requests for Proposal							
none							
Work Change Directives							
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.		\$35,000			
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 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	Contractor was directed to move the alignment of the RTM 3' north of plan alignment to keep the existing abandoned 6" transite water main outside the trench excavation.		\$4,668			

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 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		\$32,068			
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.		\$5,140			
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		\$1,700			
WCD 013	Replace 2 Loop Detectors East of Clovis	Contractor was directed to install two loop detectors east of Clovis that were not included in the contract drawings		\$3,000			
WCD 015	Sewer Line 477+59	An unmarked sewer line was found at 477+59. The contractor will be setting up traffic control, removing the plate, and televising the contents of the pipe to determine if the pipe is abandoned.		\$7,500			
WCD 016	Plug and bag traffic signal head Olive and Chestnut	Contractor is directed to install plugs and bag the middle signal head for westbound Olive at Chestnut to resolve public complaints regarding confusing traffic signaling for the traffic control setup.		\$3,000			
WCD 017	Replacement of concrete driveway @ 531+05	Pre-existing damage to the sidewalk at the driveway approach adjacent to construction at Station 531+05 101'Lt constitutes a safety hazard due to heaving. Replace the concrete driveway per City Standards.		\$8,000			
Change Orders							
CCO 001	Contract Change Order No. 1	<p>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</p> <p>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</p> <p>RFP 002 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress. \$17,150.90</p> <p>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</p> <p>WCD 003 Modify traffic control to create entrance for Beacon Gas on Olive Ave. \$1,388.72</p>	\$88,282				
CCO 002	Contract Change Order No. 2	<p>COR 003 Contractor pursuing additional costs associated with furnishing special notification signage to address public outreach concerns for businesses along the project alignment. \$3,171.28</p> <p>COR 005 Increased traffic congestion caused by road closure required traffic flagging to alleviate gridlock at intersections near Gallo and Fwy 180. \$36,959.12</p> <p>RFP 003 The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City. \$106,800.12</p> <p>WCD 002 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. \$14,056.88</p> <p>WCD 006 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. \$76,460.10</p>	\$255,802				

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 009 The Contract specified flange gasket materials that are not NSF-61 certified. Contractor was directed to install NSF-61 certified gaskets. \$17,253.22					
DRAFT CCO 003	Draft Contract Change Order No. 3	The Contractor has been directed to move their excavation north to allow for the removal of a 10" abandoned main. By moving their trench north, the abandoned 10" main will lay within the trenching of the Contractor, allowing for its removal without the need for extra excavating.		\$35,998			
		Remove and reinstall existing pipe from Station 666+41 to 665+59 that was obstructing new RTM installation.		\$20,152			
		The Contractor broke unmarked PG&E electric cables not shown on the plans on Olive Ave. at Sta. 657+91 (700' west of Sunnyside). PG&E determined that the cables were not live, and once confirmed, the Contractor sawcut and removed the cables and resumed RTM installation.		\$5,343			
		The Contractor broke unmarked PG&E electric cables not shown on the plans on Olive Ave. at Sta. 654+78 (1000' west of Sunnyside). PG&E determined that the cables were not live, and once confirmed, the Contractor sawcut and removed the cables and resumed RTM installation.		\$2,514			
		During RTM installation, the Contractor encountered 1-1/2" unmarked gas service and a 3/4" unmarked water service that were not shown on the plans at Olive and Ninth. The location of the utilities precluded the Contractors ability to properly shore the excavation with materials onsite.		\$5,259			
		Unknown unmarked sewer was damaged at 460+10. Change order request for the repair of the sewer		\$14,279			
		Eight 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.		(\$96,000)			

Project Name: **Phase 2 Regional Transmission Main - Segment A2**
 Project Number: **WC00065**
 Data Date: **10/30/17**



Original Contract Value: **\$18,204,180**
 Approved Contract Change Orders: **\$165,994**
 Current Contract Value: **\$18,370,174**

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			\$165,994	\$232,752	\$0	\$105,287	0
Change Order Requests							
COR 002	Unforeseen Utilities via SUE	The Contractor is pursuing costs to protect and support utilities during construction that were not shown on the Contract Plans. McKinley - Fresno to Clark and Blackstone to Echo; Olive Avenue; Fresno Street; Palm - McKinley to Floradora		\$26,747			
COR 005	Unforeseen Utilities via SUE	The Contractor is pursuing costs to protect and support utilities during construction that were not shown on the Contract Plans.				\$49,000	
Requests for Proposal							
RFP 005	Construct Bulkheads and Phased Testing & Disinfection	Proposal to cut and seal a segment of the RTM in order to isolate for testing and disinfection such that the RTM segment can be tested, disinfected, and placed into service in spite of anticipated delays associated with High Speed Rail coordination. Proposal shall also include costs associated with additional disinfection and reconnection of remaining RTM segment including traffic control, backfilling, compaction, and restoration.				\$56,287	
RFP 005.1	Materials for Phased Testing & Disinfection	Cost of materials associated with RFP 005. Materials have long lead time, therefore were approved to be ordered in advance.		\$8,713			
RFP 006	Desclope Installation of 24" RTM Station 10+00 to 17+25	Proposal of credit associated with descoping the installation of approximately 725 linear feet of 24" RTM between H Street and G Street. Cost of descoped pipe and casing to remain borne by Owner, however, proposal shall include costs for storage and transportation of such materials. Costs associated with lowering the RTM below existing 60" storm drain as per redesign shall also be incorporated into the proposal.					
Work Change Directives							
WCD 011	24" NSF 61-Certified Gaskets	The Contractor shall submit for approval, and shall furnish and install 24" Garlock Style 3760 NSF 61 certified gaskets at 18 manway locations in place of the specified non-compliant 24" Garlock Bluegard 3300 gaskets.		\$5,595			
WCD 012	Repair of Unmarked Traffic Signal Conduits	City traffic control conduits located at Station 228+60 (at McKinley and Van Ness) and at Station 241+60 (near McKinley and San Pablo) were damaged during excavation. Conduit was neither marked nor shown on the Plans. Contractor shall repair conduit per City Standards. Work shall include pulling wires, inspection of wires, and replacement of wires and conduit as necessary.		\$10,000			
WCD 013	Additional Flagging at McKinley & Clark	Due to heightened traffic congestion from westbound traffic near McKinley and Clark, the City requested Floyd Johnston Construction provide one additional full-time flagger in order to control work zone access and enhance public safety.		\$5,000			
WCD 016	Alignment Changes due to Sewer Conflict at Station 236+37	While excavating in McKinley between Blackstone and Maroa, an unknown and unmarked 12" sewer lateral was hit at approximately Station 236+37. The elevation of the RTM was in conflict with the elevation of the sewer lateral, therefore had to be lowered by approximately 35".		\$5,000			
WCD 017	Repair Gutter Pan Station 255+38 to 255+75	Sawcut, remove, and dispose of approximately 37LF of existing damaged concrete gutter pan and 1-foot width of adjacent AC pavement between Stations 255+38 and 255+75. Replace per City Standards.		\$2,000			
Change Orders							
CCO 001	Contract Change Order No. 1	RFP 001 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress. \$9,144.06 RFP 002 Traffic control changes necessary for safe access to/from San Joaquin Memorial High School during pickup and drop off. Also, additional signage for 4-way stop signs at Floradora and Fresno Street. \$9,131.47	\$165,994				0

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 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. \$4,008.60					
		RFP 004 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. Credit \$3,000.00					
		WCD 001 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. \$14,800.97					
		WCD 002 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. \$126,328.30					
		WCD 003 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. Credit \$31,250.00					
		WCD 004 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. \$23,749.43					
		WCD 005 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. \$2,445.47					
		WCD 006 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. \$3,155.78					
		COR 001 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. \$3,152.64					
		COR 004 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. \$4,326.83					

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)
DRAFT CCO 002	DRAFT Contract Change Order No. 2	WCD 007 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.		\$5,673			
		WCD 008 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.		\$40,412			
		WCD 009 A fiber optic 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 fiber optic utility. This adjustment in elevation necessitated the installation of a combination air/vacuum release valve.		\$12,038			
		WCD 010 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.		\$96,922			
		WCD 014 Approximately 630 SF of pre-existing damaged concrete pavement along Fresno Street between Olive and Floradora required replacement.		\$12,955			
		WCD 015 Due to inconsistency of field conditions with project plans, minimum separation of 12" could not be maintained between the RTM and an existing PG&E facility. To ensure protection of the facilities, cathodic protection bonding wires were furnished and installed by PG&E. To avoid prolonged impacts to traffic and disturbance of finished paving, excavation and restoration for this installation was completed by Floyd Johnston.		\$1,697			

Project Name: **RWTM Southwest Quadrant Project SW1B**
 Project Number: **TC00096B**
 Data Date: **10/30/17**

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	\$2,789	\$0	\$3,000	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.		\$4,447			
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)			

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							

Project Name: **RWTM Southwest Quadrant Project SW1C**
 Project Number: **TC00096C**
 Data Date: **10/30/17**



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	<p>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</p> <p>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</p> <p>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</p>	\$269,718				0