



## DEPARTMENT OF PUBLIC UTILITIES

# CAPITAL IMPROVEMENT PROGRAM LARGE CONSTRUCTION CONTRACTS CHANGE STATUS REPORT

February 12, 2018  
(Data through February 9, 2018)

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.
Recycled Water Transmission Main SW1C2	TC00096-SW1C2	Bill Nelson GEC, Inc.

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: **02/09/18**

	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$15,157,862	\$14,857,862	500
Approved Contract Change Orders:	\$803,246	\$803,246	96
		5.41%	
Current Contract Value:	\$15,961,108	\$15,661,108	596



APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$803,246</b>	<b>96</b>	<b>\$239,029</b>	<b>\$7,915</b>	<b>\$721,941</b>	<b>0</b>
<b>Change Order Requests</b>								
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 013	Clean-out Trench from Stop Work Notice	This request pertains to additional work claimed by the Contractor to remove soil from the pipe trench at Station 248+00. The soil washed into the open trench during the winter rains. The Contractor claims that since they were under a stop work order due to environmental restrictions, they could not complete the trench backfill before weather moved in.					\$26,012	
COR 014	Change of Material - Rock	Contractor is claiming and change in conditions in regard to subsurface east of Big Dry Creek. Contractor is claiming the rock encountered during excavation in the pipe zone was harder than indicated in the geotechnical report requiring additional effort.					\$454,994	
COR 016	Remobilization for Unmarked PG&E Duct Bank	At the beginning of the project a conflict between the pipe and an unmarked PG&E power conduit was discovered, apparently the power conduit had been installed after the project was designed. The conduit was high voltage and ran well with the pipe zone. The Contractor was directed not to install 6 sticks of pipe to allow the design engineer time to determine the best course of action. The Contractor was directed to continue to install pipe to the north of the conflict. When a solution was reached the Contractor would be required to re-mobilize a crew and equipment of sufficient size to install the full lengths of pipe. The City was able to work with PG&E to have the power conduit repositioned which eliminated the conflict with the pipe. The Contractor remobilized to the location and completed the installation of the six sticks of pipe at the same time they connected on to the existing 60-inch pipeline. The cost associated with this change is to cover the cost of men and equipment necessary to installed the six full lengths of pipe. The cost will not include the men and equipment necessary to complete the tie-in which part of the contract.					\$36,990	
COR xxx	09/05/2017 Notice NESWTF Pipe Misalignment Delay TRA 0293	Contractor claims delay as a result of tie-in point to the existing 60-inch pipeline was not as per supplied revised drawings. The existing 60-inch connection point was 5.14 ft to the east and approximately 0.08 ft 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. Difference in actual location verses locations shown on drawings required review and reassessment original pipe lay drawings.					\$50,000	
COR xxx	Loss Production Due to Design Error TRA 0101	There was a design error at the Northeast Surface Water Treatment Facility that required an extensive amount of time to provide a new design to the Contractor.					\$100,000	
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.					\$50,000	
<b>Requests for Proposal</b>								
RFP 014	City Backcharge for Inspector Overtime	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$194,044)	
<b>Work Change Directives</b>								

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 007	Property Owner Gates	One additional 14 ft access gates was required on the fence line between the Johnson and Leshner property at Station 165+28.63. The original single 14 ft gate shown on the plans was not sufficiently wide enough to allow farm equipment to pass through. The single 14 ft gate became a double gate providing 28 feet of access. The decision to used two gates was base of the bid item for gate which were 14 feet wide. Using a second 14 ft gate standardized all of the gates on the project and the price was already establish in the bid.			\$1,700			
WCD 010	Additional Property Owner Gates	The WCD directs the Contractor to plan on procuring 5 additional 14 ft access gates to be installed at the unit price included in the bid item. Two of these 14 ft access gates are required at approximate STA 127+00 and 133+00 on the Leshner property. These gates will allow City access to the blow off located at Station 131+00 which is to the west of the Leshner fence and only accessible through the Leshner property. The remaining three gates, if necessary, will be installed at the location provide by the Construction Manager of the Construction Inspector. This is a per unit item as per bid.			\$8,500			
WCD 013	NESWTF Buttstraps	The Contractor claims due to the difference in the actual location of the tie-in point to the existing 60-inch pipe and the location show on the plans. An addition short pipe of 60-inch pipe and two butt straps will be required to make the connection. Contractor seeks reimbursement for locating existing tie-in, additional survey of the actual tie-in point, cost of materials and labor for the installation of the additional pipe.					\$19,629	
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 sat 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.			\$35,087			
WCD 020	Meter Vault Platform	In order for the United States Bureau of Reclamation to safely access the new pitot tube location (pitot tube access port addressed in WCD 017) a platform with a ladder is required to allow USBR to install their pitot tube and conduct a periodic quality control check of the City's flow meter. The platform shall allow for two USBR personnel to safely access the meter vault and insert the pitot tube into the pipe. This WCD directed the Contractor to purchase and install the prefabricated platform found suitable by the Design Engineer			\$10,000			
WCD 021	Intake Bollards	The City has directed the Contractor to install five additional removable bollards at the intake. Two of the bollards will be installed in-line with previously installed bollards on either side of the traveling screen to provide extra protection. The three additional bollards are to be placed at the eastern edge of the canal road across from where the newly installed and paved drive meets the paved canal road. The purpose is to prevent vehicles accessing the canal from the new road from traveling too far and falling into the canal.			\$0			
WCD 022	Staging Area Fencing	This change includes additional fencing at the lay down/ storage yard on Armstrong Avenue. The existing fencing which was removed or damaged during construction is to be replaced as per contract on the west, north and east sides of the yard. The new fencing is to tie into the existing fencing on the remainder of the property. The replacement fencing will be installed at the unit price as per the bid item for fencing.			\$5,000			
WCD 023	Stainless Steel Label Cable Ties	This change is to furnish and install stainless steel banding for the pipe maker signs at the Northeast Surface Water Treatment Facility in replacement of the plastic cable ties which were provided with the signs. The plastic ties are not sustainable for long outdoor use.			\$1,200			
<b>Change Orders</b>								
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.	\$54,433	0				
		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	(\$6,883)					

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		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.	\$6,233					
		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.	\$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 placing cement mortar grout. Cost credit of \$124,397.00	(\$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	\$2,358.71	0				
		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	\$9,116.35					
		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	\$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	\$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	\$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	(\$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	\$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	\$38,700.00	0				
		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	\$25,500.00					
		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	\$23,454.00					
		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	\$35,486.00					
		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	\$85,000.00					
		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	\$3,755.50					

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		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	\$72,500.00					
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.	\$27,000.00					
		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.	\$493,000.00					
		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. 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. 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.	\$0.00	96				
CCO 005	Contract Change Order No. 5	This change includes the items listed below which were negotiated on November 15, 2017 and included as one total cost: COR 005: Contractor requested change due to groundwater 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. Acceptance of this change includes MCI's waiver of all other claims associated with the Notice provided in MCI SL No. 013, Transmittal No. 149, Dated April 14, 2017. COR 008: 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. COR 010: 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. COR 012: Contractor had mobilized their paving subcontractor, CalValley, to complete paving through Change Order No. 004. CalValley had to demobilize per the request in the last item below. COR 013: Contractor requested extra compensation due to a change in the start date for work in the Friant-Kern Canal. COR 014: Compensation for an unmarked conduit found in the NESWTF zone.	\$0.00					

# Construction Contract Change Item Descriptions (CID)

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		COR 011: This change recognizes a changed condition caused by the presence of Tiger Salamander larvae in the work zone. Work was restricted, and additional work was required to build boxes around dewatering pumps such that the larvae would not be harmed.	\$14,250.00					
		Per Change Order No. 003, COR 003 and RFP 011, the contractor was authorized to repair private access roads (Old Clovis and Garonne Avenue) within or adjacent to the construction zone that have deteriorated during construction. The City is in the process of obtaining a waiver/release from the impacted Foothill residents authorizing the repairs and indemnifying the City and MCI from any further road related damage claims. However, the residents intend to make additional road repairs beyond what the City and MCI have agreed to do. This change modifies the scope of work by directing MCI to provide a single \$90,000 remittance to the residents' escrow account as named in the waiver/release documents and to not perform any remedial work as previously required. Once the \$90,000 remittance is made, MCI can bill the City \$65,000 as authorized by CCO 003.	\$1,773.00					
DRAFT CCO 006	Draft Contract Change Order No. 6	WCD 008: Based on the lack of complete information in the Contract Documents and the City's actual needs at the turnout control building, MCI is 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.			\$2,621			
		WCD 011: 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.			\$8,206			
		WCD 015: 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.			\$10,950			
		WCD 016: 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.			\$2,608			
		WCD 017: 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.			\$1,121			
		WCD 018: Due to the high rain fall and the poor surface drainage on Willow Avenue in the vicinity of the FKCP pipeline the subgrade material became saturated causing the pavement to fail. The previously place subgrade and pavement which was place by the Contractor as per specification was removed. As there appears no changes will be made to the drainage at the intersection Of Willow and Copper before the next high rainfall event which will lead to flooding. The Contractor was directed to replace the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was place on top of the CLSM. The CLSM will resist infiltration by standing water into the subgrade and will prevent subgrade and pavement failures in the trench zone in the future. This action should prevent the City from having to make repairs to the pavement in the trench zone for the foreseeable future.			\$63,522			

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		WCD 019: Similar situation existed in the trench zone on Copper Ave as was described for Willow Ave in WCD 018 (please review Change Item Description for WCD 018). The previously installed subgrade material and pavement was installed as per specification. The subgrade and pavement failure was not a result of poor workmanship by the Contractor. To correct the subgrade issue and to prevent the issue from reoccurring in the future, the existing pavement and subgrade material was removed by the Contractor. At the direction of the CM the Contractor replaced the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was placed over the CLSM, this process should prevent the need of the City to address any pavement issues in the future in this area. A county of Fresno inspector was present during the repair process.			\$88,514			
		WCD 024: Contractor had demolished two trees along Willow Avenue for pipeline construction. The City will be replacing these trees in lieu of the Contractor replacing them. Therefore, this WCD is for a credit for the trees.				(\$300)		
		COR 015: Change order addresses the cost for the addition of re-enforcing steel (rebar) to a concrete slab at the intake structure. The contract drawing omitted a detail and call out for the rebar.				\$3,103		
		COR 017: The pipe support as designed was in conflict with nearby fittings. Contractor had to move the pipe support.				\$5,112		

# Construction Contract Change Item Descriptions (CID)

Project Name: **Kings River Pipeline Project**  
 Project Number: **WC00057-KRP**  
 Data Date: **02/09/18**

	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$45,583,750	\$45,083,750	575
Approved Contract Change Orders:	\$578,579	\$578,579	64
		1.28%	
Current Contract Value:	\$46,162,329	\$45,662,329	639



APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$578,579</b>	<b>64</b>	<b>\$156,557</b>	<b>\$96,092</b>	<b>\$446,186</b>	<b>75</b>
<b>Change Order Requests</b>								
COR 010	Unmarked Fiber Line in Harvey Ave	An unmarked fiber line was discovered while excavating for pipe installation. The fiber line ran parallel to and in some instances in the trench zone. Fiber line had to be supported and moved slightly to allow for pipe installation. The unforeseen condition caused delays to the Contractor.				\$96,092		7
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	
COR 017	Access Manway at Academy Ave Time Extension	This time extension is associated with the work under WCD 012. Due to an unmarked utility (25 kV PG&E) which conflicted with the pipe, the pipeline profile was lowered three feet to pass under the power line. The profile change was reviewed by design engineer which required an addition of a 10 foot piece of pipe containing an access manway. The decision by the design engineer came after contractor had already installed several 100 feet of pipe past the utility. Since the requirement for the addition of the access manway was not in the original contract and not a result of Contractor error. The Contractor is entitled to addition time to return to the location, remove original pipe and install the pipe with the access						5
COR 018	Veteran's Day 2016 Delay	Contractor requested a Rider from the County of Fresno to begin work on Belmont Avenue at Station 30+00 (approximately 300 feet east of the intersection of Belmont and Armstrong) on November 10, 2016. At a November 9, 2016 meeting with the County of Fresno, the County raised concerns with the proposed start date of November 10, 2016 of the mainline heading on Belmont Ave. The County informed the Contractor that the County does not allow closure of a major roadway the day before a holiday. Which in this case was November 11th. The Contractor claims they were never informed of this condition and is claiming delay and seeking compensation.					\$ 12,946.28	2
COR 019	Sugar Sand Change of Material Conditions at River Bend Ave Intersection	The Contractor is claiming a change of conditions of the materials found in the excavation on Belmont Ave near Riverbend Avenue. The Contractor claims the geotechnical report provided does not indicate a soil condition which would result in excess sloughing and requiring additional shoring. Contractor is seeking compensation for additional costs associated to complete work in area plus additional time.					\$ 173,152.73	8
COR 020	Fresno County Requirement to Move Operations	This change request is a assertion that the County of Fresno cause a delay in the Contractor's ability to start work at the location on Armstrong Avenue. The County was concerned at the amount of closures in the vicinity due to the work at the SESWTF. The County indicted they did not want the intersection of Belmont and Armstrong closed to or impacted by construction on the date the Contractor planned to start. The County indicated they would allow work to begin in Belmont Ave at Station 30+00. Contractor seeking compensation for costs they claim to have experienced and requests additional time for delay.					\$ 44,614.90	2



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COR 021	Unmarked Cuvlert Drain Line on Trimmer Springs Ave	This change is associated with an unmarked storm water drain culvert which crossed Trimmer Springs Ave at approximate Station 662+00. The culvert was not the County inventory and was not shown on the project's plans. The culvert was in direct conflict with pipeline which required the culvert to be cut, an portion removed, and pugged to prevent storm water flow into the pipe trench. Permission was required from the County of Fresno to take the storm drain out of service. The City CM directed the Contractor not to proceed until County approval could be obtained. County permission was eventually obtained. Contractor is requesting costs incurred to pothole the utility to determine its exact location and elevation, loss of production and two days of lost time.					\$ 20,121.86	2
COR 022	Mobilization of a Second Crew to East Trimmer Springs Ave	The Contractor is claiming that they were requested to mobilize a crew to start a second heading in the "cobble area" at Belmont Avenue and Trimmer Springs Avenue. Contractor is requesting compensation for the mobilization of the second crew.					\$ 181,023.98	
COR 023	Concrete Change of Material Conditions at Fancher Creek	The Contractor is claiming a change of conditions in the material while excavating to pass under Fancher Creek in 2016. Contractor is seeking compensation what they consider extra work and request additional time.					\$ 117,467.63	7
COR 024	Fresno County Rider Delay	The Contractor is claiming the County of Fresno delayed production due to not issuing a second Rider for work east of the intersection of Temperance and Belmont Avenues because an existing Rider at McCall and Belmont Avenues was issued and still in force. Contractor seeking compensation for lost production and additional time.					\$ 90,250.68	8
COR 025	Time Extension	This change item adds thirty-four (34) calendar days of non-compensable Contract Time Extension to the Contract. Garney requested forty-seven (47) calendar days additional Contract Time related to ten (10) CORs/WDCs: COR 07 – Freewater; COR 11 – Weir; COR 18 – Veterans Day; COR 19 – Sugar Sand Riverbend; COR 20 – Tie-in to 29+50; COR 21 – Culvert; COR 23 – Fancher; COR 24 – County Delays; WCD 05, 06, 11 – CAVs; and WCD 12 - Academy Pup Piece. Some of these requests relate to Non-Critical Path work, may be concurrent, or are otherwise not normally considered compensable. This Contract Time Extension is full and just time compensation for the time extension requests identified above as well as any forthcoming COR time extension requests addressing work accomplished prior to January 4, 2018. The Contractor acknowledges that while this change provides non-compensable time for multiple Change Order Requests and/or Work Change Directives, it is not intended to imply the City's acceptance of the merits of the Change Order Requests or Work Change Directive cost proposals. Garney reserves their rights to claim additional direct costs related to the ten changes identified above.						34
COR 026	Cost Incentive	This change item adds a \$100,000 lump sum payment to the Contract as full compensation for Garney's commitment of sufficient personnel and other resources to ensure the KRP is ready in its entirety and in all respects to be filled with water and begin the hydrostatic water testing process no later than 6:00 am on January 22nd 2018. The lump sum payment will only be made if the readiness criteria is achieved to the Construction Manager's satisfaction. This change item also requires the Contractor to provide a detailed testing plan, five (5) days prior to beginning hydrostatic testing, that, at a minimum, itemizes sequence, duration, methods, and procedures for filling the pipe, air venting, soaking the lining, pipeline test section identification, pipeline pressure test, mainline valve leakage test, and appurtenance pressure test.					\$ 100,000.00	
COR xxx	Sugar Sand - CID	We anticipate that the Contractor will be submitting a change order request for a change of conditions of material found at the CID Lone Tree crossing on Belmont Avenue.					\$ 1.00	
COR xxx	Sugar Sand - Freewater	We anticipate that the Contractor will be submitting a change order request for a change of conditions of material found at the Freewater irrigation culvert crossing on Belmont Avenue.					\$ 1.00	
COR xxx	Sugar Sand - Trimmer to Diversion	We anticipate that the Contractor will be submitting a change order request for a change of conditions of material found along Trimmer Springs Avenue to the diversion site.					\$ 1.00	

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
COR xxx	Shorten Vents on Trimmer Springs	We anticipate that the Contractor will be submitting a change order request requesting cost compensation for adjustments to locations of several vent pipes along Trimmer Springs Avenue. Adjustment will be necessary to match existing site conditions.					\$ 5,000.00	
COR xxx	Reimbursement for Rectifier Design & Maint	Due to a issuance of a non-conformance concerning the pipe primer, Garney has been given the option to either dig up and fix all pipe joints on all pipe fabricated after June 1, 2017. June 1, 2017 is when the pipe priming process has been documented to have been changed. Or installing a an impressed current cathodic protection system to cover the entire pipe line with associated design and maintenance fees. Per Garney's suggestion, a impressed current rectifier system has been selected. Currently a place holder as specific details are pending.					(\$120,000)	
<b>Requests for Proposal</b>								
RFP xxx	City Backcharge for Inspection OT	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$198,396)	
<b>Work Change Directives</b>								
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.			\$1,804			
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 accessway 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 accessway. 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.			\$101,897			
WCD 014	Provide CHP at Trimmer Springs Ave.	Due to requests by the residents on Flume Road to improve control of 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.			\$17,252			
WCD 017	Diversion Electrical Enclosure	The City has requested an enclosure around the electrical panels at the diversion site to keep the electrical equipment in a climate controlled environment and to improve security of the delicate and costly equipment. The construction site has been burglarized several times during the past year due to its remote location and close proximity to the road. This WCD is to allow the Contractor to procure the enclosure as the building has a long lead time.			\$30,000			
WCD 018	Additional Diversion Electrical Enclosure Items	This WCD will cover all modifications required to install the building as procured through WCD 017. Items include but are not limited to extended the concrete pad, electrical rerouting, moving the turbidimeter, and other misc. items as identified on the engineered drawings.					\$20,000	
<b>Change Orders</b>								

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending 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	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					
		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.	(\$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					
CCO 003	Contract Change Order No. 003	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	0				
		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					
		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					
CCO 004	Contract Change Order No. 004	RFP 004: The Armstrong Avenue/Harvey Street intersection pavement (pipeline Station 10+00 to Station 14+00) was significantly deteriorated prior to construction, and subsequent pipeline construction activity essentially destroyed the pavement beyond what a normal trench patch would remedy. The City agreed with the County's request to replace the entire paved surface within the intersection. This change directs the Contractor to rebuild the intersection to match the recently installed roadway pavement on Armstrong South of the intersection. The agreed road section consists of 4-inches of HMA over 8-inches of compacted AB with a 2% cross slope (See Rider 19, Item 11 and RFI 064). The City agrees to reimburse the Contractor for a portion of the cost for work that is outside the Contract Scope of Work.	\$52,071					
		RFP 005: This change adds small diameter air relief vents in the pipe access manways covers to allow for release of air during the filling of the pipe, to release pockets of air trapped in the access manways to expedite the pipeline hydrostatic testing, and to facilitate future filling of the pipeline during routine maintenance.	\$15,038					
		WCD 004: This change adds a concrete pad at the Diversion Site electrical panels to allow for a safe all weather work surface. This change was requested by City Operations staff.	\$7,865					
		WCD 005: This change modifies the location of an already installed CARV that was in conflict with a property owner's access gate. The CARV was relocated to	\$5,605					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 006: This change modifies the location of a CARV that was installed within the right-of-way but too close to the property owner's orchard. The CARV was relocated three feet closer to the Belmont roadway to provided sufficient clearance to the orchard thus reducing the possibility of damage to the CARV.	\$5,605					
		WCD 007: This change modified the standard detail for driveway replacement to the Warmerdam property on Armstrong Avenue. The easement document for the Warmerdam's property requires that access driveways be sawcut and replaced to the edge of the right-of-way. This requirement was discovered after the initial paving was completed and applies to two driveways.	\$5,220					
		WCD 011: This change modifies the location of a CARV that was installed too close to the AT&T pole south of Belmont Ave. The CARV relocated to the East of its planned location.	\$5,605					
		WCD 012: 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 accessway 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 accessway. 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.	\$101,897					
		COR 006: Adverse Weather Days: Garney requested a total of 21 Adverse Weather Days (AWDs) from October 28, 2016 to February 20, 2017 as shwon on Page 3 of this Contract Change Order. The CM agreed that a total of 3 Excess AWDs are validated for 2016 and a total of 1 Excess AWD is validated for 2017 through October 31, 2017. This change adds 4 calendar days to the Contract Time for Excess AWDs.		4				
		COR 007: This change addresses a change condition at the intersection of Belmont and Trimmer Springs Avenues. An unmarked 18" irrigation line owned by the Free Water Irrigation District was discovered during pothole investigations. The Contractor was directed to provide a temporary steel beam truss to support active irrigation pipe while the 72" RW pipeline was installed underneath.	\$71,920					
		COR 008: This change adds traffic control measures to the detour route around the work zone from Trimmer Springs Road to Flume Road section of pipeline to moitigate public safety concerns raised by the County and various stakeholder.	\$3,337					
		COR 009: This change modifies the depth of the pipeline to clear an unmarked communication line that was discovered during 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: This change addresses the discovery of a previously unknown, possible historic concrete structure located approximately 8 feet below the ground surface in the pipeline trench. Construction was stopped while the City's project archeologist determined the origin and purpose of the structure. The project archeologist's determination was that the structure should be measured and photographically documented, then broken up and removed by the Contractor. The delay covered two work days and the work necessary to remove the structure.	\$15,828					
		COR 012: This change addresses an unmarked communication line that was discovered while excavating for pipe installation. The communication line was not shown on the project drawing or located in the field by the utility locator. The unforeseen condition caused delays to the Contractor to temporarily support and work around the line.	\$9,325					

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 014: This change addresses an unmarked AT&T line at Station 107+95 that was discovered while excavating for pipe installation. 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: This change addresses two unmarked utility lines in the vicinity of Station 120+00 that were discovered while excavating for pipe installation. The communication line (AT&T) was not 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					

# Construction Contract Change Item Descriptions (CID)

Project Name: **Southeast Surface Water Treatment Facility**  
 Project Number: **WC00057-SESWTF**  
 Data Date: **02/05/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$158,766,000	\$157,766,000	1000
Approved Contract Change Orders:	\$3,697,886	\$2,697,886	0
		1.71%	
Current Contract Value:	\$162,463,886	\$160,463,886	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$3,697,886</b>	<b>0</b>	<b>\$110,192</b>	<b>\$112,663</b>	<b>\$117,500</b>	<b>0</b>
<b>Change Order Requests</b>								
COR xxx	Ops Bldg HVAC Duct Sizes (RFI 343)	Increase HVAC duct sizes in Ops Bldg					\$10,000	
COR xxx	Maint Storage Struct Steel (RFI 378)	Modify Maintenance Bldg Storage Area Structural Steel to coordinate with Skylights					\$12,500	
COR xxx	Network Topo Mods (RFI 043)	Modify SCADA network topo to address new City Standards					\$5,000	
COR xxx	Delete Conduit C-40-185 (RFI 046)	Delete unnecessary conduits					(\$2,500)	
COR xxx	Relax light control Ops Bld (RFI 202)	Modify the lighting control in the Operations Bldg					(\$5,000)	
COR xxx	Add Conduit/Wires TWP (RFI 284)	Add conduits and wires to Treated Water Pumps for heat sensors					\$12,500	
COR xxx	Area 81 Maint Panel Sched (DC 027)	Modify Area 8 Lighting Control Panel					\$10,000	
<b>Requests for Proposal</b>								
RFP xxx	Panel Change SST to FRP	Panel Change SST to FRP					(\$10,000)	
RFP xxx	Maint Panel Schedule Change	Maint Panel Schedule Change					\$7,500	
RFP xxx	Add Cleanouts Admin Bldg	Add Cleanouts Admin Bldg					\$7,500	
RFP xxx	Modify SCADA Comm Config	Modify SCADA Comm Config					\$30,000	
RFP xxx	Install 12-strand FO to Ops Bldg	Install 12-strand FO to Ops Bldg					\$5,000	
RFP xxx	Add turbidimeter on Res Outlet	Add turbidimeter on Res Outlet					\$10,000	
RFP xxx	Add seal water lube for pumps	Add seal water lube for pumps					\$25,000	
<b>Work Change Directives</b>								
WCD 015	Backfill Behind Curb (FO 010)	WCD 015 -- Provide additional labor to backfill the landscape area behind the perimeter curbs to provide proper drainage and mitigate ponding.			\$50,000			
WCD 016	Relocate Site Light Pole (FO 011)	Relocate Site Light Pole (FO 011)			\$5,000			
WCD 017	Change wall colors Ops Bldg (FO 012)	Change wall colors Ops Bldg (FO 012)			\$3,500			
<b>Change Orders</b>								
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	(\$1,153,313)					
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 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.	(\$34,717) (\$62,224) (\$59,633)					
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.	(\$100,581) \$6,429					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		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.	\$24,938					
		RFP 023 -- COP 015 -- Minor revisions to security sytem device locations. Cost increase \$19,573.	\$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.	\$172,899					
		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.	(\$2,707)					
		COR 001 -- COP 006 -- Add additional exit sign in the Ozone Facility lower level. Cost increase \$1,424.	\$1,424					
		COR 002 -- COP 007 -- Add additional conduit tags for heat trace wire. Cost increase \$3,680.	\$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.	\$8,461					
		RFP 009 -- COP 003 -- Revise landscaping plan to mitigate for removal of large California Live Oak. Cost increase \$4,245.	\$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.	(\$29,658)					
		WCD 003 -- COP 004 -- CM directed abandonment of old water well on site. Cost increase \$3,168.	\$3,168					
		WCD 002 -- COP 011 -- CM directed removal of old residential garbage dump on site. Cost increase \$14,649.	\$14,649					
CCO 005	Contract Change Order No. 5	RFP 029 -- COP 023 -- Added scope for SCADA (plant control system) programming. Origanilly 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	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	(\$21,465)					
		RFP 015 -- COP 012 -- Add several conduits and cables to support the required ozone emergency shutoff switches. Cost Increase \$5,590	\$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	\$48,399					
		RFP 021 -- COP 013 -- Miscellaneous changes to electrical service to plumbing fixtures. Cost Increase \$9,560	\$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	\$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	\$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	\$34,148					
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 sectionn and the DE concurred. Cost increase \$2,018.00	\$2,018					
		COR 009 -- COP 034 -- Revised wall opening at two locations for connection between Ozone and Filtration processes. Cost increase \$24,876.00	\$24,876					
		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	(\$4,280)					
		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	\$60,156					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending 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	\$10,790					
		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	\$6,674					
		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	\$3,603					
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	\$16,796					
		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	\$13,363					
		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	\$3,694					
		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	\$67,559					
		COR 014 -- COP 057 -- Change the CTS Diffuser material from PVC to stainless steel. (RFI 0231) Cost increase \$9,531.00	\$9,531					
		COR 015 -- COP 062 --Change two in-line Polymer diffusers from PVC to Hastelloy-C per manufacturer recommendation. Cost increase \$2,583.00	\$2,583					
		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	\$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	\$2,137					
		RFP 026 -- COP 036 -- Change configuration of local control panels for field equipment. (DC 042) Cost increase \$ 6,358.00	\$6,358					
		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	\$67,363					
		RFP 035 -- COP 043 -- Modify the telephone service conduits to accommodate AT&T revised service plans. (DC 045) Cost increase \$15,750.00	\$15,750					
		RFP 041 -- COP 039.2 -- Provide plates to cover trenches under access manways to Ozone Contact Basins. (DC 050) Cost increase \$6,736.00	\$6,736					
		RFP 044 -- COP 040 -- Provide revisions to main operator room entrance for added security. (DC 055) Cost increase \$2,566.00	\$2,566					
		RFP 045 -- COP 042 -- Change turbidimeters to align with the City's standards. (DC 056) Cost increase \$27,594.00	\$27,594					
		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	\$74,995					
		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	\$6,573					
		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	\$5,687					
		RFP 050 -- COP 058 -- Add CAV Valves on 6" PW south end of the Operations Building. (DC 064) Cost increase \$5,163.00	\$5,163					
		RFP 051 -- COP 059 -- Provide security screen on the Perimeter Wall Opening stormwater overflow section. (RFP 009) Cost increase \$9,848.00	\$9,848					
		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	\$2,613					
		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	\$6,281					
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	\$110,696					
		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	\$15,002					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 034 WQ -- COP 041 -- Add electrical and instrumentation for mixers on two Chemical Storage Tanks. (DC 044) Cost increase \$72,456.00	\$72,456					
		RFP 037 WQ -- COP 038 -- Add a Lime Fill Access Station in the Chemical Building. (DC047) Cost increase \$21,706.00	\$21,706					
		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	\$27,592					
		RFP 040 WQ -- COP 044.2 -- Add three caustic chemical feed pumps. (DC 049.1) Cost increase \$34,231.00	\$34,231					
		RFP 043 WQ -- COP 046 -- Make modifications to the Caustic Tanks to convert two for Sodium Hydroxide. (DC 053) Credit \$8,187.00	(\$8,187)					
		RFP 042 WQ -- COP 048 -- Add roof hatches to the two lime tank roofs. (DC 052) Cost increase \$19,379.00	\$19,379					
		RFP 047 WQ -- COP 053 -- Delete two Sodium Hydroxide System mixing eductors.(DC 067) Credit \$5,243.00	(\$5,243)					
		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	\$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. Cost decrease \$14,800	(\$14,800)					
		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. (RFI 021) Cost increase \$9,309	\$9,309					
		COR 019 -- COP 071 -- Add capability to control the TWPS discharge based on flow rate as an alternative to the specified system pressure control. (RFI 323) Cost increase \$2,620	\$2,620					
		COR 020 -- COP 075 -- Change specified radios to allow operation with the specified broadcast frequencies. (RFI 030) Cost increase \$4,370	\$4,370					
		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. (RFI 0326) Cost increase \$12,590	\$12,590					
		COR 022 -- COP 064 -- Modify architectural resin panels based on DE review comments to provide additional resin panels at door hams and headers, additional plywood backing, and additional painting. Cost increase \$8,862	\$8,862					
		RFP 056 -- COP 069 -- Delete color-code painting of indoor PVC chemical feed piping and add color bands. (RFP 008) Cost decrease of \$30,731	(\$30,731)					
		RFP 057 -- COP 070 -- Add 480VAC 3-phase power service, disconnects, conduit, and cabling for the Maintenance Building Bridge Crane. (DC 074) Cost increase \$6,395	\$6,395					
		RFP 058 -- COP 076 -- Add remote valve actuator control stations for the two butterfly valves located in the Flow Control Vault. (DC 072) Cost increase \$12,007	\$12,007					
		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. (DC 059) Cost increase \$14,540	\$14,540					
		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. (DC 077) Cost increase \$40,378	\$40,378					
		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. (DC 069) Cost increase \$21,272	\$21,272					
		WCD 009 -- COP 050 -- Provide soil cement treatment to stabilize saturated subgrade materials in Olive Avenue. (FO 003) Cost increase \$73,483	\$73,483					
		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. (FO 005) Cost increase \$32,081	\$32,081					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		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. (FO 004) Cost increase \$5,679	\$5,679					
CCO 011	Contract Change Order No. 11	COR 023 -- COP 081 -- Relocate and modify the filter underdrain access covers. (RFI 0268) Cost increase \$16,755	\$16,755					
		COR 024 -- COP 089 -- Modify the Operations Building HVAC grills by providing T-Bar grill adaptors and remote linkage dampers for balancing. (RFI 0359) Cost increase \$6,347	\$6,347					
		COR 025 -- COP 088 -- Add conduits and outlets in the Operations Bldg. copy room.. (RFI 0339) Cost increase \$7,263	\$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. (DC 048.1) Cost increase \$80,119	\$80,119					
		RFP 062 -- COP 086 -- Provide additional electrical/control equipment, conduits, and cables to support the site sewer discharge metering flume. (DC 071) Cost increase \$80,553	\$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 in dispersed locations to meet the pressure requirements of the Fresno Fire Department. (DC 078.1) Cost increase \$117,627	\$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. (FO 007) Cost increase	\$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. (FO 008) Cost increase \$21,256	\$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. (FO 009) Cost increase \$21,211	\$21,211					
CCO 012	Contract Change Order No. 12	RFP 064 -- COP 090 -- Add design configuration, construction, and implementation of a complete Security System for the SESWTF and Kings River Pipeline 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. (RFP 010) Cost increase of \$990,191	\$990,191					
Draft CCO 013	Draft Contract Change Order No. 13	COR 026 -- COP 092 -- PG&E requested that Contractor provide required compound meter NETA testing to expedite the meter installation and connection of the electrical substation to the PG&E transmission grid. PG&E will credit the City for this cost which was intended to be borne by PG&E. Cost Increase \$2,223			\$2,223			
		COR 027 -- COP 096 -- Install 6"x6"x4" J boxes on the flocculator mixer motor to accommodate 1.5" feeder conduits per design. (RFI 349)				\$7,333		
		COR 028 -- COP 095 -- Install hot standby module and redundant processor at each control valve station. (DC 041)				\$57,124		
		COR 029 -- COP 094 -- Install additional outlets and lighting in Ops Building Attic space to accomodate servicing of HVAC equipment. (RFI 392)				\$21,657		
		COR 030_COP 097_Install SST safety chains at two locations in the Ozone process area. (DC 086)				\$3,481		
		COR 031_COP 098_Increase the size of the feeder breakers and cable for the Cathodic Protection Power Panels. (RFI 384)				\$8,203		

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 032--COP 099--Provide and install Floor Drain Trap Seal on floor drains with p-traps in the Chemical Building. (DC 076)				\$1,143		
		COR 033--COP 100--Install remote indicating transmitters at Flowmeters 20.0111 and 20.0121 in the Pretreatment Gallery. (DC 085)				\$10,437		
		COR 034--COP 101 -- Change the specified MOXA Nport 5232 ethernet to 485 converter to a MOXA MGate 3170 per the manufacturer's recommendation.				\$3,285		
		RFP 065 -- COP 093_Add outdoor feature lighting to illuminate the flagpole in front of the Operations Building so the flag does not need to be removed each day.			\$6,814			
		WCD 016 -- COP 067.1 -- Provide soil cement treatment to stabilize saturated subgrade materials in Armstrong Avenue. (FO 006)			\$42,655			

# Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A1**  
 Project Number: **WC00065**  
 Data Date: **02/09/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$28,471,884	\$28,171,884	500
Approved Contract Change Orders:	\$376,859	\$376,859	0
		1.34%	
Current Contract Value:	\$28,848,743	\$28,548,743	500

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$376,859</b>	<b>0</b>	<b>\$283,082</b>	<b>(\$59,850)</b>	<b>(\$8,207)</b>	<b>0</b>
<b>Change Order Requests</b>								
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.			\$1,164			
COR 022	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 007	Three Unknown and Unmarked Utilities at Sta 518+74.	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 021	Unknown utilities 8" steel, 6" steel, 24" SD	The Contractor encountered 3 unknown and unmarked utilities at station 492+33, including a 6" & 8" steel incased utility and 24" storm drain.			\$4,893			
COR 020	Unknown utility @ 465+69	Unknown and unmarked utilities discovered at 465+69 requiring change in shoring methods			\$6,302			
COR 023	Electrical work at Garden and Olive	The electrical work at Olive and Garden was not included in the original bid for the project and is not listed in the current Schedule Of Values.			\$40,000			
COR 024	Install (2) 45 degree bends @ 612+45	In order to clear the existing 12" waterline and 6" gas line, two 45 degree bends were added to the CAV piping.			\$1,691			
COR 025	Additional concrete CAV	Additional concrete was needed for the CAV at Sta. 571+57. The CAV extended outside of the curblin and required modified drainage.			\$6,000			
COR 026	Credit for curb and gutter at Garden and Winery	Due to the pipe alignment shifting south near Garden and Winery, the removal and replacement of the curb and gutter was descoped.			(\$2,356)			
COR 027	Ameron double cut elbow	Per the approved plan revisions, a double cut elbow was installed to avoid an unknown 12" water utility.			\$14,425			
COR 028	NSF-61 Gaskets	Contractor is requesting compensation for costs associated with the repair of leaks found at flanged joints throughout the project. The leaks were found to be caused by the Owner-requested gaskets which were required for this project for their NSF 61 rating.					\$250,000	
<b>Requests for Proposal</b>								
RFP XXX	Inspection Overtime	As per the General Conditions, Contractor is responsible to pay the City of Fresno for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays and hours worked by the inspector other than those of the normal City working days.					(\$258,207)	
<b>Work Change Directives</b>								
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.			\$39,805			
WCD 005	Alignment Revision at Willow Ave. CREDIT	A gas main was discovered in conflict at Olive Avenue and Willow Avenue after the project was bid but prior to construction. This WCD 5.0 is for the CREDIT BACK for the realignment of the RTM at Willow.				(\$59,850)		
WCD 005.1	Alignment Revision at Willow Ave. EW	A gas main was discovered in conflict at Olive Avenue and Willow Avenue after the project was bid but prior to construction. This WCD 5.1 is for the EXTRA WORK 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.			\$106,369			
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			

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
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			\$2,117			
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 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.			\$1,336			
<b>Change Orders</b>								
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.	\$40,381					
		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					
		RFP 002 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress.	\$17,151					
		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					
		WCD 003 Modify traffic control to create entrance for Beacon Gas on Olive Ave.	\$1,389					
CCO 002	Contract Change Order No. 2	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					
		COR 005 Increased traffic congestion caused by road closure required traffic flagging to alleviate gridlock at intersections near Gallo and Fwy 180.	\$36,959					
		RFP 003 The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City.	\$107,901					
		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.	\$14,057					
		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					
		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					
CCO 003	Contract Change Order No. 3	WCD 014 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					
		COR 009 - During construction, the Contractor encountered two 24-inch EJ Gallo steel irrigation lines at Olive and Sunnyside. The Contractor was given direction to install the RTM deeper underneath the irrigation lines. In order to do so, the Contractor needed to remove two segments of RTM pipe.	\$20,152					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 010 - 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					
		COR 011 -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					
		COR 013 - 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					
		COR 012 - During RTM installation, the Contractor encountered three unmarked PG&E gas mains located between Station 492+62 and 492+38 on Olive Ave. west of HWY 168. None of the PG&E mains were broken, however, additional work was necessary in order to excavate, support and shore the trench.	\$14,279					
		COR 014 - Eight RTM pipes were improperly installed such that the welding seams from the manufacturer align at the pipe joints. The Contractor proposes a credit back to the City of \$12,000 per joint.	(\$96,000)					
CCO 004	Contract Change Order No. 4	COR 015 - During pipe trench excavation, Contractor broke a 4" sewer main that was not shown on the plans. Costs include downtime, cleanup, and repair of the unknown sewer line conflicting with RTM installation on Olive, 300 ft. east of Maple, station 509 + 07.	\$3,165					
		COR 016 - The Contractor needed to perform additional potholing to locate possible utility conflicts. A 6" sanitary sewer was located at station 508 + 70, 200 ft. east of Maple on Olive Ave. The 6" sanitary sewer required additional support during excavation. The Contractor also located an unknown sanitary sewer in the same area at station 507 + 70. The Contractor relocated an additional (3) 4" sanitary sewer services in order to install the RTM.	\$13,997					
		COR 017 - During pipe trench excavation, Contractor broke two unknown water services located on Olive Ave. and the HWY 168 overpass. The two services struck and repaired were a 3/4" water service at station 496 + 00 and a 1-1/2" water service at station 495 + 49.	\$2,199					
		COR 018 - On Olive Ave., 600 ft. east of Jackson, the Contractor exposed a 1" water service at station 494 + 14 and a 3/4" gas service at station 494 + 21. Both utilities were unknown and not shown on the plans. The Contractor incurred downtime to excavate around each utility.	\$3,010					
		COR 019 - During excavation, the Contractor struck and damaged an unknown 4" sewer line incased in a protective steel sleeve. The incident occurred on Olive Ave., 100 ft. east of 8th Street at station 460 + 10. The Contractor removed and replaced the damaged portion of the sewer line and steel sleeve.	\$1,950					
		WCD 008 - On Olive Ave. west of Dewitt, the Contractor encountered an abandoned 6" transite (asbestos) water main that was shown on the plans. In order to keep the 6" transite water main outside of the trench excavation, the Contractor was directed to shift the RTM alignment 3' to the north between stations 613 + 00 and 623 + 00 to avoid further conflict. The work includes removal and disposal of transite pipe exposed and broken during excavation prior to shifting the RTM alignment.	\$4,668					
		WCD 015 - An unmarked and unknown sewer lateral west of the Olive and Cedar intersection was found and in conflict with the RTM alignment. This work includes televising of the sewer lateral to determine if it is abandoned or active.	\$1,336					
		COR 004 - Extra work to remove and reinstall the RTM at a lower elevation in order to avoid conflict with two unidentified 24-inch irrigation lines on Olive east of Sunnyside Avenue.	\$14,907					

# Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A2**  
 Project Number: **WC00065**  
 Data Date: **02/09/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$18,204,180	\$17,904,180	500
Approved Contract Change Orders:	\$335,691	\$333,994	40
		1.87%	
Current Contract Value:	\$18,539,871	\$18,238,174	540

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$335,691	40	\$290,535	(\$241,982)	(\$130,322)	0
<b>Change Order Requests</b>								
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.			\$26,000			
<b>Requests for Proposal</b>								
RFP XXX	Inspection Overtime	As per the General Conditions, Contractor is responsible to pay the City of Fresno for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays and hours worked by the inspector other than those of the normal City working days.					(\$130,322)	
<b>Work Change Directives</b>								
WCD 022	Realignment due to AT&T duct at Station 56+45	During excavation for the RTM, the Contractor encountered previously installed AT&T ducts at station 56+45.00 on H street. The AT&T ducts where neither marked nor shown on the plans and are located within the east side of the RTM excavation. In order to perform additional exploratory work, the Contractor had to widen their excavation and remove the slurry covering the AT&T ducts. The removal of the slurry required additional hauling and disposal. An AT&T representative was present while the exploratory work was performed. After determining the location of the AT&T ducts, the RTM alignment must shift two feet to the west. Additional slurry is needed to fill the widened trench and cover the exposed AT&T duct.			\$10,000			
WCD 023	Additional commissioning activities (chlorination and connections)	Due to schedule constraints, Contractor is required to perform additional work as part of final acceptance and commissioning of the RTM. Additional work includes dewatering the main, relocating a backflow preventer, chlorination and acidification of the water, installation of sample ports, and sampling and testing.			\$75,000			
WCD 021	Shifting of tunneling pit due to AT&T duct conflict	During excavation of the tunneling pit at station 58+36.84 on H street, the Contractor encountered previously installed AT&T ducts apparently limited to the southeast corner of the pit excavation. The ducts where unmarked and not shown on the plans. Exploratory work was performed by the Contractor to determine the extent of the conflict. If the duct is in conflict and the pit can be shifted within three feet without modification to tunnel alignment, contractor shall perform such additional excavation.			\$15,000			
WCD 019	Exploratory work for AT&T duct conflict at station 60+75	During excavation for the RTM at the intersection at Palm Ave. and H Street, the Contractor encountered previously installed AT&T ducts at station 60+75. The AT&T ducts where neither marked nor shown on the plans and are located within the east side of the RTM excavation. In order to perform additional exploratory work, the Contractor had to widen their excavation and remove the slurry covering the AT&T ducts. The removal of the slurry required additional hauling and disposal. The Contractor exploratory work determined that the top of the AT&T duct's concrete encasement was approximately 11' deep, with the bottom of the RTM approximately 14.5' deep.			\$35,000			

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 019.1	RTM alignment at station 60+75	After performing additional exploratory work to determine the extent of the conflict with the AT&T duct at station 60+75, the Contractor was directed to widen their excavation 6' and realign the RTM 6' to the west to avoid conflict with the AT&T duct. The realignment required the Contractor to perform additional excavating, provide additional slurry, perform additional backfill, and additional pavement restoration.			\$12,127			
<b>Change Orders</b>								
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	0				
		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					
		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.	\$4,009					
		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.	(\$3,000)					
		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.	\$14,801					
		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					
		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.	(\$31,250)					
		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					
		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					
		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.	\$3,156					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 001An 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 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.	\$4,327					
CCO 002	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					
DRAFT CCO 003	Draft Contract Change Order No. 3	RFP 005 - 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.			\$10,882			
		RFP 005.1 - Cost of materials associated with RFP 005. Materials have long lead time, therefore were approved to be ordered in advance.			\$9,408			
		WCD 001.1 - A utility conflict exists between the design alignment of the RTM with AT&T fiber optic facilities at the FID Canal on H street (Sheet 11 of the Contract Plans). The proximity of the launching and receiving pits of the RTM Segment A2 tunneling operations to the existing AT&T manholes at each side necessitate a realignment of the RTM.			\$8,695			

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 011 - 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 - 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 repaired conduit per City Standards. Work included pulling wires, inspection of wires, and replacement of wires and conduit as necessary. All performed work was inspected by City TSSL.			\$6,640			
		WCD 013 - 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.			\$6,919			
		WCD 016 - 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".			\$17,260			
		WCD 017 - 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. Replaced per City Standards.			\$1,443			
		WCD 018 - Elevation of existing sewer lateral at Station 254+80 was found to be deeper than shown on the plans and in conflict with the proposed RTM. Contractor was required to locate and expose the lateral which was also found to be out of conformance with City Standards. Contractor was required to bring the existing sewer lateral into conformance and realign the lateral to clear the RTM.			\$13,105			
		WCD 020 - A stubbed 4" gas main located at station 113+40 is located further to the west than is shown on the contract plans and is located within the RTM trench. The excavation was halted while PG&E investigated to determine whether the gas main was live. After PG&E determined that the 4" gas main was live, the contractor was directed to realign the RTM 18" to the west to avoid conflict with the gas main.			\$10,715			
		COR 002 - These costs are associated with protecting and supporting 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			
DRAFT CCO 004	Draft Contract Change Order No. 4	RFP 006 - Descope Installation of 24" RTM Station 10+00 to 17+25 - 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.				(\$241,982)		

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1B**  
 Project Number: **TC00096B**  
 Data Date: **02/09/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$9,341,491	\$9,041,491	1000
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$9,341,491	\$9,041,491	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$0</b>	<b>0</b>	<b>\$187,960</b>	<b>(\$117,937)</b>	<b>\$82,151</b>	<b>39</b>
<b>Change Order Requests</b>								
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.			\$4,381			
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			0
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	
COR 007	Debris in Trench at 14" PVC at Belmont/Marks intersection	Garney encountered concrete debris in the trench excavation near the intersection of Marks and Belmont but did not provide a preliminary Notice of Change or any subsequent timely backup. During negotiations Garney presented cost sheets requesting compensation for impacts on December 27th, 28th, and 30th of 2016 and on January 3rd, 5th, 6th, and 21st of 2017. The CM verified with the project Inspector that Garney was potentially impacted by the debris on January 3rd, 5th, 6th, 9th, 10th, and 11th. Agreed that Garney was impacted on six (6) days for about 33% of the 8-hour work day; and for this change, Garney's crew rate was agreed to be \$1,500 per hour. The resulting compensation is \$24,000 and two (2) days of time extension.			\$24,000			2
COR 009	Blythe Bore Pit Permeation at Houghton Canal	Garney encountered water seepage into the B&J pit at approximate Station 132+00. The City's Inspector stopped work until the situation could be evaluated and a remedy implemented. Agreed that Garney was impacted on two days: March 17th and March 18th for 4 hours and 5 hours respectively. The attached cost worksheet shows the compensable charges for these two days. The resulting compensation is \$9,273 and one (1) day of time extension. (See Attached Cost Breakdown)			\$9,273			1

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
COR 010	Removal of Concrete Structure at Cornelia and Belmont	Garney encountered an unmarked, buried concrete structure while excavating the receiving pit for HDD at the intersection of Belmont & Cornelia. The City Inspector confirmed that the T&M sheets accurately reflect the labor/equipment required to remove the obstruction. Agreed to pay Garney's cost request less the mobilization charge for CalValley to pave the excavated trench since the installation required them to mobilize. The resulting compensation is \$34,027 and three (3) days of time extension.			\$34,027			3
COR 011	Utility Conflict w/Bore Pit at West End Sta 132	Garney encountered an unmarked, conflicting 4-inch conduit when excavating the B&J pit at approximate Station 132+00. The conduit was determined to be abandoned, but it was leaking water into the excavation. The decision was made by the CM to the pit. Agreed that March 2nd and March 3rd 2017 are compensable to cover cost of excavating/filling the abandoned pit. The original Contract Price covers the relocated pit location. The relocation also required the B&J to be lengthened by 20-feet. Since the City Standard Specifications Section 1 TERMS, DEFINITIONS, GENERAL PROVISIONS paragraph 3-2.1.2 page 23 states that Unit Prices apply to all changes until the change exceeds 25% of the Contract Bid Quantities, the City will pay Garney \$30,000 as compensation for the 20-foot casing extension. Garney is to resubmit a COR for this change to incorporate the agreements described herein, and they are to submit the resubmittal as a numbered COR.					TBD	2
COR 012	PG&E Marking Discrepancies	Garney struck multiple PG&E underground utilities prompting PG&E to request extensive potholing. Garney has not submitted a COR for this work, so there was nothing to review. The City agreed to consider the cost as compensable once Garney submits a complete COR.					TBD	
COR 013	Additional Fiber Optic Box	The horizontal directional drill at the intersection of Belmont and Cornelia required a 5' minimum clearance from the bore to the box culvert. Garney claims, due to this required clearance, the bore pit was dug south of the previously installed fiber optic box resulting in the need of a new fiber optic box to be installed south of the existing box.					\$2,794	
COR XXX	Bore Pit Conflicts - Add 5' of Depth	Garney claims the additional 5 feet of depth was required in order to bore under the FID canal while during irrigation season.					\$105,000	
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)		
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			
RFP XXX	Backcharge of Inspector Overtime	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$28,643)	
Work Change Directives								

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
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			1
<b>Change Orders</b>								
None								

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C**  
 Project Number: **TC00096C**  
 Data Date: **02/09/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$4,198,175	\$4,043,175	1000
Approved Contract Change Orders:	\$269,718	\$269,718	0
		6.67%	
Current Contract Value:	\$4,467,893	\$4,312,893	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$269,718	0	\$10,293	\$0	(\$3,260)	3
<b>Change Order Requests</b>								
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			
<b>Requests for Proposal</b>								
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
RFP XXX	Backcharge for Inspection Overtime	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$3,260)	
<b>Work Change Directives</b>								
None								
<b>Change Orders</b>								
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.</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.</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.</p>	\$246,512					
			\$19,193					
			\$4,013					

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C2**  
 Project Number: **TC00096**  
 Data Date: **02/08/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$7,682,290	\$7,382,290	1000
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$7,682,290	\$7,382,290	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$0</b>	<b>0</b>	<b>\$118,810</b>	<b>\$0</b>	<b>\$39,527</b>	<b>0</b>
<b>Change Order Requests</b>								
COR XXX	Standby due to FAA Authorization	After commencing excavation of the jacking pit on Whitesbridge, it was discovered that authorization from the Federal Aviation Administration was required before work can begin. Contractor was put on standby until proper approvals could be attained. Costs include equipment standby, shoring, demobilization, remobilization, and traffic control.					\$15,000	
COR XXX	Concrete Road Below Pavement	While potholing along the project route, the Contractor has encountered an old concrete road below the surface of the AC pavement. The concrete lays within the trench path in areas on Whitesbridge, between Hughes and Fuit Avenues, and ranges between 4 and 7 inches in thickness. As instructed per RFI 028, the Contractor shall remove all concrete within the trench so that the 24" RWTM can be installed.					\$6,000	
<b>Requests for Proposal</b>								
RFP 001	Traffic Rated Blow-off Lids	Contractor shall substitute a traffic rated steel lid in place of a concrete lid for the blow-off locations on Hughes Ave at Station 231+44 and 236+92.					\$2,000	
<b>Work Change Directives</b>								
WCD 001	Ground Water at Nielsen	In order to manage groundwater encountered at lower excavation depths in the trench on Nielsen, the Contractor was directed to install crushed rock in the bottom of the trench as needed, followed by placement of CLSM in the pipe bedding zone. Water was pumped out of the trench as necessary until the RWTM was back on grade where groundwater was no longer present.			\$44,607			
WCD 002	Nielsen Ave Gas Line & Amador St Duct Bank	While potholing along Amador, an AT&T duct bank at Station 466+34 was found to be in conflict with the proposed 8" RWTM. Contractor was directed to utilize fittings to divert the main under the duct bank then immediately come back up to line elevation. The actual location of the existing utilities on Amador St. were also found to be situated in a way that allowed the Contractor to make the elevation change shown in the plans from Station 303+70.85 to Station 303+78.76 without the installation of 11.25 degree bends. Appropriate credit shall be included in the cost totals to be submitted under this WCD for the eliminated fittings.			\$15,000			
WCD 002.1	Duct Bank at B St and Amador	While excavating along B St., an AT&T duct bank at Station 451+72 was found to be in conflict with the 8" RWTM alignment, as referenced in RFI 032. The Contractor shall perform additional excavation and utilize fittings to divert the 8" RWTM under the duct bank then immediately come back up to line elevation			\$15,000			
WCD 003	Realignment at Fruit Ave due to Existing Water Main	During excavation on Fruit Ave., the existing 42" sewer main encroached upon the 12" RWTM entering the trench at station 556+60. The 12" RW alignment was shifted to the west to avoid conflict with the 42" sewer main. At station 558+10, the 12" RWTM was shifted back to the original alignment.			\$5,000			
WCD 005	Realignment at Hughes Ave due to Conflicting Utilities	While potholing along Hughes Avenue, between Roeding and Highway 180, several utilities were found to be in conflict with the proposed 24" RWTM. As instructed per RFI 019, the Contractor shall adjust the vertical alignment of the RWTM between Stations 262+98.53 and 272+54.95.			\$19,203			
WCD 005.1	Realignment at Trinity St due to Conflicting Utilities	Potholing data along Trinity Street revealed several utilities in conflict with the proposed 24" RWTM. As instructed per RFI 035, the Contractor shall adjust the vertical alignment of the RWTM between Stations 499+92 and 500+40.			\$8,000			

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 005.2	Realignment at Hughes Ave due to Conflicting Utilities	Potholing data along Hughes Avenue revealed several utilities in conflict with the proposed 24" RWTM between the Union Pacific Rail Road and Nielsen Avenue, and between Highway 180 and Whitesbridge Avenue. As shown in the attached plan revisions, the Contractor shall adjust the vertical alignment of the RWTM from Station 245+55 to 256+05 and from Station 277+03 to 283+07.			\$12,000			
WCD 005.3	Realignment at Whitesbridge Ave due to Conflicting Utilities	Potholing data along Hughes Avenue revealed several utilities in conflict with the proposed 24" RWTM. Data is currently being analyzed to determine the extent of existing conflicts.					\$16,527	
<b>Change Orders</b>								
None								