



**JUSTIFICATION MEMORANDUM
COST IMPACT MEMORANDUM
TIME IMPACT MEMORANDUM**

Date: July 23, 2019

To: A. Jabsheh, City
File 49.04 (CCO-002)

From: D. Smith, RE

Project: Alder/Randall Street Improvements
P-140809

Subject: CCO-002
Storm Drain Lateral 3, 4, and 6 Revisions

RFP-003: Storm Drain Lat 3, 4, and 6 Revisions

While performing the requisite potholing prior to beginning general excavation, the Contractor found the elevations of the storm drain connection interfaces differed from those on the plans. The City requested additional potholing to determine the actual field conditions. The differences discovered resulted in the need to redesign to provide for gravity flow. The original junction structures were public works standard designs for buried structures that are not subject to traffic loads. After potholing, the structures were specifically redesigned to support traffic loads due to the shallowness.

Milor High School is on the north side of Randall Avenue, and the work is on the south side. Work on Lateral 6 will include moving traffic to the north to allow for working room on the south. In the interest of public safety, the contractor has agreed to diligently pursue the work to complete the majority of the deep excavation work prior to school beginning the end of August. It is the intent to restore traffic patterns to the existing condition prior to school starting.

Change Order work is:

Construct Storm Drain Laterals 3, 4, 5, and new Lateral 6 and associated Junction Structures per the modified Drainage Plans – Sheets 44, 44A, 44B, and 44C of 105 attached to Change Order 2. Demolish and remove approximately 10 feet of double Reinforced Concrete Box per Demolition Plan Sheet 10 of 105.



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Modified work includes:

- 1) Remove a segment of the existing double RCB box at Station 132+23.32 from 10 ft right to the existing headwall as shown on Sheet 10 of 105 Rev. 01.
- 2) Construct the new Lateral 6, cast in place double RCB box at Sta. 132+23.32, from 10 ft. right to approx. 19.7 ft. right as shown on Sheet 44A of 105.
- 3) Construct Laterals 3 and 4 to revised grades as shown on Sheet 44 of 105 Rev. 01.
- 4) Construct Junction Structure "RAN" 132+23.42 per details shown on Sheet 44B of 105 (Modified from SPPWC Standard Plan 320-2).
- 5) Construct Junction Structure "RAN" 131+47.89 per details shown on Sheet 44C of 105 (Modified from SPPWC Standard Plan 320-2).

The costs below take into account the following changed conditions:

- Traffic control plans and setup are required due to the installation of Lateral 6. The original design could have been constructed without shifting traffic to the north.
- Laterals 3, 4, and 5 are primarily precast, with the cast-in-place elements at the connections. Lateral 6 is a short section, therefore, the entire length is to be cast-in-place including dowelling into the existing box at the northerly connection.
- Cast-in-place also requires the excavations be open for a longer duration than precast installations in order to form, pour, and allow concrete to achieve the required strength prior to backfilling

Cost and Time Impact Memoranda are shown on the following page.



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Compensation is categorized into the following agreed-to lump-sum work:

Additional potholing to verify existing conditions \$990.75

Demo existing double RCB, includes traffic control plans,
set-up, maintenance and removal, excavation,
backfill, restore pavement \$32,325.00

Construct new Lateral 6 - Cast-in-Place double RCB \$19,980.00

Construct revised Junction Structure, identified as
RAN 132+23; includes offsite rebar fabrication,
cast-in-place formwork. \$24,800.00

Credit of 1 each Bid Item 43, Manhole 302-2 -(\$9,900.00)

Construct revised Junction Structure, identified as
RAN 132+47; includes offsite rebar fabrication,
cast-in-place formwork. \$23,600.00

Credit of 1 each Bid Item 43, Manhole 302-2 -(\$9,900.00)

Total CO Cost \$81,895.75

TIME IMPACT MEMORANDUM

The contractor has requested to reserve the right to address time impacts at a future date. Time impacts, if any, associated with this work are anticipated to be minor impacts as work will be performed concurrently with scheduled activities on the current contract. Costs listed above include increased labor to offset potential delays.

If the contractor identifies any time impacts, they shall be reviewed on a case by case basis.