Document 00941

CHANGE ORDER No. 2

PROJECT: Roadway Pavement Replacement Martinville and Sunbeam

CONTRACT No.:

4600014558

PROJECT No.:

N-321039-001A-4 (N-321039-001A)

TO:

Precise Services, Inc.

22337 Sandy Ln

Contractor and

Address for Written Notice

1.01 DESCRIPTION OF CHANGES

Porter, TX 77365\

CONTRACT CHANGE

Amount

Time

ITEM 1 SCOPE:

Use borrow/select fill for the subgrade stabilization on Sunbeam St.

\$281,125.00

24 Days

00941-1 Contractor Initial

CHANGE ORDER No. 2

JUSTIFICATION:

The design documents do not account for use of borrow/select fill for the subgrade stabilization of the proposed pavement for Sunbeam St. During Martinville Dr. construction, Alliance Laboratories prepared the soil boring logs for Martinville Dr. and Sunbeam St. as there were issues on the subgrade stabilization of Martinville Dr. The boring log shows that some areas of Sunbeam St. have existing unsuitable soil up to 26 inches. The existing unsuitable soil needs replacement with select fill/borrow.

Based on the soil boring information, Engineer of Record (EOR) recommended four different options for the pavement design changes in Sunbeam St. One of the options using borrow/select fill for the entire limit is found economical and suitable for this pavement work. In this method, the proposed 8 inches stabilized subgrade would begin at depth of 10 inches from the existing grade. The contractor will remove an average 12 inches of additional base (Excavation range can be lower or higher than 12 inches) depending on each location) and replace with borrow/select fill. The pavement will still be 8 inches lime stabilization, 6 inches flexbase and 4 inches Hot Mix Asphalt Concrete (HMAC).

The overall pricing was determined by using pricing on WCD#4 and other bid items. The contractor agreed on the price used on this WCD for the new added item Borrow and other items are already on the contract.

The City recommends adding this change in the scope of contract. Thirty (30) additional calendar days were requested to be added to the contract. The City Project manager evaluated the project schedule and determined that twenty-four(24) days impacted the critical path of the project schedule.

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
19	Roadway Excavation with or without subgrade	CY	6500.00	\$13.25	\$86,125.00
64	Borrow/Select Fill	CY	6500.00	\$30.00	\$195,000.00

ITEM 2 SCOPE:

Remove timber, repair existing storm sewer pipe and stabilize subgrade in Martinville Dr.

\$47,609.86

30 Days

Print Date: 09/06/2018

00941-2

Contractor Initial

CHANGE ORDER No. 2

JUSTIFICATION:

Contract documents do not account for timber and storm sewer pipe leakage underneath the subgrade. Contractor discovered the timbers underneath the subgrade between Station 14+80 to 21+22 during proof rolling. While excavating the subgrade to expose the timbers, the contractor found a storm pipe leakage at approximate station 17+50.

The Contractor submitted RFI No.15A ,15B and 17 requesting clarification for stabilization of subgrade. Engineer of Record (EOR) and the project team discussed this issue with the Technical Service Team, Testing and Lab Geotest Engineering, recommended to excavate 1.5 ft the entire limit between 14+80 to 21+22 and remove the horizontal timbers and cut the vertical timbers at the excavated level of 1.5ft and backfill using suitable on site soils and remainder of the backfill using borrow/select fill. EOR also recommended to use a concrete collar to bridge the gap between pipes using TXDOT specification item 464 and its standard detail. During this time, contractor was delayed and incurred for additional cost.

WCD #2 and WCD #3 were executed to expedite the work. The contractor's pricing was evaluated by the parallel estimate, analysis of existing bid data, and prices on WCD #2 and 3.

The City recommends adding this change in the scope of contract. Thirty-seven (37) additional calendar days were requested to be added to the contract. The City Project manager evaluated the project schedule and determined that thirty (30) days impacted the critical path of the project schedule. (RFI #15A, 15B and 17; WCD #2 and 3 and Contractor's request letter).

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
19	Roadway Excavation with or without subgrade	CY	428.00	\$13.25	\$5,671.00
20	Lime for Lime Stabilized Subgrade (7% Min. Dry Weight)	TON	14.00	\$180.00	\$2,520.00
21	Lime Stabilized Subgrade, 8 Inches Thick	SY	856.00	\$2.15	\$1,840.40
57	Excavation around obstructions	CY	14.00	\$10.00	\$140.00
65	Borrow/Select Fill	CY	428.00	\$30.00	\$12,840,00
66	Reinforced Concrete Pipe Collar	EA	1.00	\$750.00	\$750.00
67	Claim 2 - Delay Cost and Time	LS	1.00	\$23,848.46	\$23,848.46

ITEM 3 SCOPE:

Cost and Time due to unsuitable soil conditions on Martinville Dr.

\$45,651.73

43 Days

Print Date: 09/06/2018

00941-3

[A, L]
Contractor Initial

CHANGE ORDER No. 2

JUSTIFICATION:

The subgrade soil condition in Martinville Dr. was found different from the contract documents. During construction, the contractor discovered inconsistent base material containing limestone, asphalt, brick and shell fragments along the entire length of Martinville Dr.

The contractor submitted RFI No. 008,008A,009 and 009B requesting clarification for the method of stabilizing subgrade of inconsistent material. Engineer of Record (EOR) and the project team discussed the issue with Technical Services Team, Testing Lab and Geotest Engineering. Finally, after additional soil tests and some meetings on this issue, EOR recommended additional 4 inches of base thickness on the pavement. The cost of the design change has already been addressed in the change order no.1. Contractor incurred additional cost due to delay in evaluating and analyzing the soil samples and providing the new design for different site condition.

The contractor's pricing was evaluated by parallel estimate and analysis of differing site condition.

The City recommends adding the scope of this work to the contract. Fifty-three (53) additional calendar days were requested to be added to the contract. The City Project manager evaluated the project schedule and determined that forty-three (43) days impacted the critical path of the project schedule. (RFI No. 8, 8A, 9 and 9B, WCD 1 and Contractor's request letter)

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
68	Claim 1 - Delay Cost and Time	LS	1.00	\$45,651.73	\$45,651.73

ITEM 4 SCOPE:

Additional quantities for paving and drainage items on

Martinville Dr. and Sunbeam St

JUSTIFICATION:

The completion of Martinville Dr. and evaluation of Sunbeam St. identified the significant quantity overrun for the existing unit price items of flexible base course, Type-D hot mix asphalt base course, concrete driveway and storm sewer pipe.

The contractor submitted request for information on these overrun and Engineer of Record evaluated these items. The overrun is due to differing site condition and actual work needed to complete the project.

The overall pricing was determined by using existing unit price item in the contract.

The City recommends to add this additional scope of work to complete the project. No additional calendar days are added.

[A.L

\$180,303.00

Print Date: 09/06/2018

[/-] . L]
Contractor Initial

0 Days

CHANGE ORDER No. 2

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
25 ·	Flex Base Course Temporary Drive Commercial (24 foot maximum width)	EΑ	6.00	\$1,000.00	\$6,000.00
26	Type "D"- Hot Mix Asphaltic Concrete Pavement (4 inch)	TON	1168.00	\$88.00	\$102,784.00
28	Concrete Driveways, 6 Inches Thick	SF	2700.00	\$13.95	\$37,665.00
29	Concrete Driveways, 7 Inches Thick	SF	120.00	\$18.55	\$2,226.00
36	Remove and Dispose of Exist 15-Inch Diameter RCP Storm Pipe	LF	384.00	\$12.00	\$4,608.00
38	24-Inch Diameter RCP Storm Sewer, Installed by Open Cut Construction (Elliptical)	LF	193.00	\$140.00	\$27,020.00

TOTALS: \$554,689.59 97 Days

1.02 ACCEPTANCE BY CONTRACTOR

Contractor agrees to perform change(s) included in this Change Order for the price and time indicated. The prices for changes include all costs associated with this Change Order.

	1	
Contractor Signatur	e and Title	

1-6-18

Date

1.03	ACCEP	TANCE	BY THE	CITY
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Navaraj Penta	9/10/2018
Project Manager	Date
11.2 Pobonot & king	9/12/18
Managing Engineer	Date
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Deputy Director - Required for COs to Council

Date

Director - Required for COs to Council

Date

City Engineer

Date

Mayor - Required for COs to Council

Date

CHANGE ORDER No. 2

EXECUTIVE SUMMARY

1.01	CONTRACT PRICE SUMMARY	DOLLAR AMOUNT	PERCENT
A.	Original Contract Price	\$2,585,150.25	100.00%
В.	Previous Change Orders	\$0.00	0.00%
C.	This Change Order	\$554,689.59	21.46%
D.	Contract Price	\$3,139,839.84	121.46%

1.02	CONTRACT TIME SUMMARY	DURATION	COMPLETION DATE
A.	Original Contract Time	335 Days	Sunday, December 9, 2018
B.	Previous Change Orders	0 Days	Sunday, December 9, 2018
C.	This Change Order	97 Days	Saturday, March 16, 2019
D.	Contract Time	432 Days	Saturday, March 16, 2019

1.03 TOTAL VALUE OF INCREASES OUTSIDE OF GENERAL SCOPE OF WORK

A. Including this Change Order, the following table is provided to track conditions related to Paragraph 7.1.2.3 of Document 00700 - General Conditions.

<u>CHANGE ORDER</u> <u>No.</u>	AMOUNT ADDED	PERCENT OF ORIGINAL CONTRACT PRICE
1	\$58,713.16	2.27%
2	\$554,689.59	21.46%
TOTALS	\$613,402.75	23.73%

00941-6

[A . L] Contractor Initial

Print Date: 09/06/2018