

REQUEST TO APPROVE ADDITIONAL COSTS FOR DRAINAGE AND LANDSCAPING CONTRACT AT SILVER CREEK CAMPUS

Recommendation:

Staff recommends approval of the additional cost of \$34,785.47 associated with three change requests for the drainage and landscaping project at the Silver Creek Campus. The original contract was for \$100,491.96 awarded to Navapache Equipment Services. Tetra Tech, architects for the project, advised the college on all change orders.

Summary:

Staff issued a request for bids to provide drainage and landscaping at the Silver Creek Campus in Snowflake/Taylor. The project consisted of two major components. One is the construction of a drainage channel at the north end of the campus. The other major component was the installation of culverts at the south end of the campus.

After the contract was awarded the design of the channel was modified to allow for better maintenance of the channel in future years and to better protect the property. The bottom of the channel was switched to concrete instead of rip rap (large boulders) and the width was increased from 5 feet to 6 feet requiring more material and supplies. In addition, the property owner to the north finally consented to using a portion of their property which required moving the fence, clearing vegetation to the new property line, and building a retaining wall for a utility pole. Lastly, additional cost was incurred for rerouting of conduits and sprinklers that were not buried deep enough, deepening and regrading boxes underneath culverts, redesigning and regrading of culverts, and extra underground sleeving. The changes were reviewed and approved by Tetra Tech in consultation with NPC.

The end result is that the Silver Creek Campus has better drainage to protect the property and allow for better maintenance of the drainage channel in the future. You are able to see the work in the photographs that follow.

The additional costs will be covered by contingency included in the capital budget.





CHANGE ORDER

No. 3

Project: NPC – Silver Creek Campus – Drainage & Landscape Project

Date of Issuance: February 26, 2016

Date of Contract: October 28, 2015

Owner: Northland Pioneer College

Contractor: Navapache Equipment Services, LLC

P.O. Box 610

Engineer: Tetra Tech, Inc.

Holbrook, AZ 86025

You are directed to proceed with the following change(s):

1. Perform the services and provide the rebates as listed in the letter prepared on February 25, 2016 in regards to effort spent on the Southern Drainage Channel.

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIME:

Original Contract Price:
\$100,491.96

Original Contract Time:
Original Notice to Proceed Date:

90 Calendar Days
11/11/2015

Increase/Decrease from previous Change Orders:
\$28,041.47

Increase/Decrease from previous Change Orders:
10 Days

Contract Price Prior to This Change Order:
\$128,533.43

Contract Days Prior to This Change Order:

100 Days

Increase This Change Order:
\$6,744.00

Increase This Change Order:

0 Days

Contract Price Including This Change Order:
\$135,277.43

Contract Time Including This Change Order:

100 Days

RECOMMENDED:

By:
Engineer Signature

Date: 02-26-2016

ACCEPTED:

By:
Owner Signature

Date: 3/14/16

ACCEPTED:

By:
Contractor Signature

Date: 2-29-16

3/1/16



NAVAPACHE EQUIPMENT SERVICES LLC
2050 E ADAMS
SHOW LOW, AZ 85901
928-537-4570

2/25/2016

David Huish,

In regards to the change order request for the transition from 24" culverts at 20 L.F. down to 18" at 20 L.F. and using concrete instead of asphalt over the culverts goes as follows:

Concrete over culverts which includes valley gutter increases the price by \$4,301. (See Receipt)

Credit for asphalt that would have been placed over culverts is: 450 S.F. which equals to 8.5 tons. At a price of \$120 a ton credit is given in the amount of \$1,020.

Credit of \$400 goes towards curb that was to be placed over culverts which breaks down to \$20 a ft. with 20ft of curb.

The restocking fee for exchanging the 24" culverts at 20 L.F. for 18" at 20 L.F. is an increase of \$813. (Receipts are attached)

We lost 3.5 days on the job site which accumulates to a labor charge of \$5,250. This work included rerouting of conduits and sprinklers that were not buried deep enough, deepening and regrading boxes underneath culverts, redesigning and regrading of culverts, and extra underground sleeving.

Our work crew consists of two operators that both work 10 hour days. Each operator gets paid \$30 an hour no matter what job they are performing. Since we lost 3.5 days on the job this breaks down to:

Omar worked for 10 hours during the 3.5 days at \$30 an hour:

$$10 \times 3.5 \times \$30 = \$1,050$$

Candelario worked for 10 hours during the 3.5 days at \$30 an hour:

$$10 \times 3.5 \times \$30 = \$1,050$$

Total labor hours add up to \$2,100

All of our equipment on the job included a 10,000 lb. skid steer, 15,000 lb. excavator, and a service truck that carries the rest of the equipment. Our equipment runs on day rates due to the fact that each piece of equipment could have been used on another job site, but it was used for the Snowflake NPC job during the 3.5 days. Day rates are set as follows:

The service truck was on site for the entire 3.5 days. The day rate for this equipment is \$150

$$3.5 \text{ days} \times \text{rate of } \$150 = \$525$$



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SHOW LOW, AZ 85901
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The skid steer was on site for the entire 3.5 days. The day rate for this equipment is \$350.
3.5 days x rate of \$350= \$1,225

The excavator was on site for the entire 3.5 days. The day rate for this equipment is \$400.
3.5 days x rate of \$400= \$1,400

The total cost of equipment for the 3.5 days is \$3,150

Total labor and equipment cost is \$5,250

Credit was also given for reducing retaining wall size by 30 ft. is a total deduction of \$1,200.

The last credit given goes towards Sod at \$1,000.

Deducts:

- Credit for the asphalt that would have been placed over the culverts = \$ 1,020
- Decrease of retaining wall size by 30 ft. = \$1,200
- \$1,000 credit for sod
- \$400 credit for curb

Increases:

- + Exchanging 24" culverts for 18" = \$813
- + Replacing concrete for asphalt over culverts and gutter = \$4,301
- + 3.5 Days of labor, determining plan = \$5,250

TOTAL DEDUCTIONS = - \$3,620

TOTAL INCREASES = + \$10,364

In summary, the change order will be in the amount of the cost for the exchange of culverts, plus replacing the asphalt with concrete, plus labor and equipment, minus credit for asphalt, minus the reduction in retaining wall size, and minus the credit for Sod and curb. Which equals to a total increase of cost at \$6,744. In addition, we commit to fixing the broken asphalt where the conduits are tied to.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read "Lynn DeWitt". The signature is fluid and extends across the width of the page.

Lynn DeWitt



CHANGE ORDER

No. 2

Project: NPC – Silver Creek Campus – Drainage & Landscape Project

Date of Issuance: February 26, 2016

Date of Contract: October 28, 2015

Owner: Northland Pioneer College

Contractor: Navapache Equipment Services, LLC

P.O. Box 610

Engineer: Tetra Tech, Inc.

Holbrook, AZ 86025

You are directed to proceed with the following change(s):

1. Perform the services and provide the rebates as listed in the letter prepared on February 25, 2016 in regards to effort spent on the North Drainage Channel. This effort required additional time and an additional 10 days are requested.

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIME:

Original Contract Price:
\$100,491.96

Original Contract Time:
Original Notice to Proceed Date:

90 Calendar Days
11/11/2015

Increase/Decrease from previous Change Orders:
\$21,180.55

Increase/Decrease from previous Change Orders:
10 Days

Contract Price Prior to This Change Order:
\$121,672.51

Contract Days Prior to This Change Order:

100 Days

Increase This Change Order:
\$6,860.92

Increase This Change Order:

Days

Contract Price Including This Change Order:
\$128,533.43

Contract Time Including This Change Order:

100 Days

RECOMMENDED:

By: *Doug Winkler*
Engineer Signature

Date: 02-26-2016

ACCEPTED:

By: *[Signature]*
Owner Signature

Date: 3/14/16

ACCEPTED:

By: *[Signature]*
Contractor Signature

Date: 2-29-16

ok 3/1/16
[Signature]



NAVAPACHE EQUIPMENT SERVICES LLC
2050 E ADAMS
SHOW LOW, AZ 85901
928-537-4570

2/25/2016

David Huish,

In regards to the change order request for the change of removing the retaining wall the prices are set as follows:

We only built the retaining wall at 52ft. The wall was originally proposed at a total of 100ft. This leaves credit of $\$50 \times 48\text{ft.} + 10\% + \text{tax } (4.605\%) = \$2,761.83$

The deal with the property owner was that we can use part of his land in exchange for 18" culverts at a length of 40ft. including 1 band for an increase of = \$545

We added 3 days on the job site. Day 1 included moving the fence and clearing vegetation to new property line. Day 2 included of excavation work from the new property and moving dirt alongside the trench. Day 3 included of more grading alongside trench and moving the fence back. \$1,500 a day for the new digging/excavating which accumulates to a labor charge of \$4,500.

Our work crew consists of two operators that both work 10 hour days. Each operator gets paid \$30 an hour no matter what job they are performing. Since we added 3 days on the job this breaks down to:

Omar worked for 10 hours during the 3.5 days at \$30 an hour:
 $10 \times 3 \times \$30 = \900

Candelario worked for 10 hours during the 3.5 days at \$30 an hour:
 $10 \times 3 \times \$30 = \900

Total labor hours add up to \$1,800

All of our equipment on the job included a 10,000 lb. skid steer, 15,000 lb. excavator, and a service truck that carries the rest of the equipment. Our equipment runs on day rates due to the fact that each piece of equipment could have been used on another job site, but it was used for the Snowflake NPC job during the 3 days. Day rates are set as follows:

The service truck was on site for the entire 3 days. The day rate for this equipment is \$150
 $3 \text{ days} \times \text{rate of } \$150 = \$450$

The skid steer was on site for the entire 3 days. The day rate for this equipment is \$350.
 $3 \text{ days} \times \text{rate of } \$350 = \$1,050$



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The excavator was on site for the entire 3.5 days. The day rate for this equipment is \$400.
3 days x rate of \$400= \$1,200

The total cost of equipment for the 3 days is \$2,700

Total labor and equipment cost is \$4,500

There was also an increase of 450 s.f. and 162 s.f. of extra concrete for the corner replacing part of the retaining wall and the dirt in the corner. This makes 612 s.f. x \$6.50 + 10% + tax = \$4,577.75

We will also give an extended 3-year warranty on the rip rap that was placed on the north side of the ditch.

Deducts:

- Credit for the 48ft. of retaining wall = \$2,761.83

Increases:

- + 2 culverts at 20ft. with band = \$545
- + Labor and equipment charge of = \$4,500
- + 650 s.f. of concrete = \$4,577.75

TOTAL DEDUCTIONS = - \$2,761.83

TOTAL INCREASES = + \$9,622.75

In summary, the change order will be in the amount of the cost for the price of the 18" culverts and band, labor charge, and price of concrete; minus the credit of 48ft of retaining wall that was not built. This adds up to a total increase in price of \$6,860.92. In addition to the price increase, we will include an extended 3-year warranty on the rip rap on the north side of the ditch.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'Lynn DeWitt'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Lynn DeWitt



TETRA TECH

814
12/11/15

CHANGE ORDER

No. 1

Project: NPC - Silver Creek Campus - Drainage & Landscape Project

Date of Issuance: December 9, 2015

Date of Contract: October 28, 2015

Owner: Northland Pioneer College

Contractor: Navapache Equipment Services, LLC

P.O. Box 610

Engineer: Tetra Tech, Inc.

Hollbrook, AZ 86025

You are directed to proceed with the following change(s):

1. Change the North Channel bottom width from 5 feet to 6 feet.
2. Remove the Riprap from the channel bottom & install 6" thick concrete, 6 feet wide with No. 3 rebar, 24" on center in both directions, based on the attached revised cross-section drawing. This cross-section will apply approximately from Station 10+00 to Station 13+21. Install short retaining walls along edge of channel.

Attachments: Exhibit A - Drawing showing new channel cross-section

<u>CHANGE IN CONTRACT PRICE:</u>		<u>CHANGE IN CONTRACT TIME:</u>	
Original Contract Price:	\$100,491.96	Original Contract Time:	90 Calendar Days
Increase/Decrease from previous Change Orders:	None \$0.00	Original Notice to Proceed Date:	11/11/2015
Contract Price Prior to This Change Order:	\$100,491.96	Increase/Decrease from previous Change Orders:	None 0 Days
Increase This Change Order:	\$21,180.55	Contract Days Prior to This Change Order:	90 Days
Contract Price Including This Change Order:	\$121,672.51	Increase This Change Order:	10 Days
		Contract Time Including This Change Order:	100 Days

RECOMMENDED:

By: Doug Donibald
Engineer Signature

Date: 12-9-15

ACCEPTED:

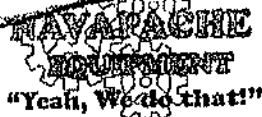
By: Melissa Johnson
Owner Signature

Date: 12/15/15

ACCEPTED:

By: [Signature]
Contractor Signature

Date: 12-9-15



NAVAPACHE EQUIPMENT SERVICES LLC
2050 E ADAMS
SHOW LOW, AZ 85901
928-537-4570

December 7, 2015

David Huish,

In regards to the change order request for the placement of concrete on the bottom of the channel for the Silver Creek Campus, the price below will include 3000 lb concrete and #3 rebar on 24 in. centers throughout the concrete.

\$6.50 per sq. ft. Adds up to: $333.33\text{ft} \times 6\text{ft} = 2000\text{ sf} \times \$6.50 + \text{tax } (4.615\%) + 10\% = \$14,960$

At a price per lineal ft. of \$50 for retaining wall, amount of $\$50 \times 100\text{ ft.} + \text{tax} + 10\% = \$5,753.83$

As far as changes to the work that will be required, there will be less excavation on the channel bottom, but more excavation on the sides.

In regards to changes in material, there will be less rip rap, but the effort required to place the remaining rip rap will increase. Below is a breakdown showing the requested changes.

Amount of Rip Rap removed: $5\text{ft.} \times 323 \times 1.5 / 27 = 89.72\text{ S.Y.}$ being removed.

At a price per C.Y. of \$24 for Rip Rap the amount saved is $89.72 \times 24 = \$2,153.28$

At a price per S.Y. of \$2.00 for Fabric the amount saved is $180 \times 2.00 = \$360.00$

<u>Deducts:</u>	<u>Increases:</u>
89.72 S.Y. of rip rap removed = $-\$2,153.28$	72 C.Y. at \$15 grading on sides = $+\$1,080$
180 S.Y. of Fabric removed = $-\$360$	Additional Effort placing rip rap = $+\$2,800$
60 C.Y. at \$15 Grading Removed = $-\$900$	
TOTAL DEDUCTIONS = $\$3,413.28$	TOTAL INCREASES = $\$3,880.00$

In summary, the change order will be in the amount of the cost for the placement of the concrete floor, the concrete wall, and total increases, minus the total deductions, which accumulates to an increase of \$21,180.55. The placement of concrete will require additional time, and we request 10 additional days for this change in scope.

Sincerely,

Lynn DeWitt





