COUNTY OF LAKE
DEPARTMENT OF PUBLIC WORKS

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	D-4-		

CHANGE ORDER MEMORANDUM

Date 07/10/2017

		ANGE ONDER ME	INOINAINDON				
TO: COUNTY OF LAKE			FILE: COUNTY CONTRACT NO	16-03			
FROM:			COUNTY PROJECT NAME	COUNTY PROJECT NAME Foard Road at Anderson Creek			
Ramon Montes de Oca, R.E., QUINCY ENGINEERING			Bridge Replacement				
	-, ,		FEDERAL PROJECT NO	BRLO-5914(068)			
CCO NO.	SUPPLEMENT NO.	CATEGORY CODE	CONTINGENCY BALANCE (I	(noteding this shapes)			
3	SUFFLEWENT NO.	CATEGORT CODE	I).	ncluding this change);			
CHANGE ORDER AM	The state of the s		COUNTY BOARD OF SUPER				
INCREASE	X DECREASE		REQUIRED? YES X	NO			
SUPPLEMENTAL FUI	NDS PROVIDED		IS THIS REQUEST IN ACCORD	ANCE WITH ENVIRONMENTAL			
\$0			DOCUMENTS YES X NO				
ORIGINAL	TIME ADJUSTMENT	IDDEVIOUSLY	PERCENTAGE TIME	TOTAL # OF UNRECONCILED			
CONTRACT TIME:	THIS CHANGE:	APPROVED TIME	ADJUSTED (Including this	DEFERRED TIME			
CONTRACT TIME.	ITIIO CHANGE.	ADJUSTMENTS:	change)	(Including this change)			
90 DAY(S)	64 DAY(S)	3_ DAY(S)	Gridinge)	0			
		— <u>s</u> = DAT(s)	74.4 %				
COMPREHENSIVE	DECODIDATION III	I STIFICATION, AND					
COMPREHENSIVE	DESCRIPTION, JU	STIFICATION, AND	COST SUMMARY				
TI-:- 01 01							
This Change Order	•						
CCO #3 Item #1: AL	DJUST CONTRACT	ITEMS AT CONTRA	CT PRICE				
Bid Item # 11 Tempo	orary Fiber Roll: (∆ =	: -25%)					
Engineers Estimate	, ,	,					
370 LF @ \$5.00/ LF	= \$1 850 00						
Actual	† 1,000.00						
277 LF @ \$5.00/ LF	= \$1 385 00						
Difference	- ψ1,303.00						
	- (\$40E.00)						
(-93 LF @ \$5.00/ LF	· = (\$465.00)						
Finding							
		ntractor did not reque	est adjustment.				
Therefore, no adjustment to unit price required.							
Bid Item # 12 Tempo	orarv Silt Fence: (∆ =	= -81%)					
Engineers Estimate							
370 LF @ \$8.00/ LF = \$2,960.00							
Actual							
70 LF @ \$8.00/ LF = \$560.00							
Difference							
(-300) LF @ \$8.00/ LF = (\$2,400.00)							
Finding							
	Quantity underrun greater than 25%, Contractor did not request adjustment.						
Therefore, no adjustment to unit price required.							

COUNTY OF LAKE DEPARTMENT OF PUBLIC WORKS

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Date 07/10/2017

CHANGE ORDER MEMORANDUM

Bid Item # 20 Salvage Concrete Barrier (Type K): (Δ = -100%)

Engineers Estimate

130 LF @ \$25.00/LF = \$3,250.00

Actual

0 LF @ \$25.00/ LF = \$0.00

Difference

(- 130) LF @ \$25.00/ LF = (\$3,250.00)

Finding

Quantity underrun greater than 25%, Contractor did not request adjustment.

Therefore, no adjustment to lump sum price required.

Bid Item # 23 Roadway Excavation: ($\Delta = -25\%$)

Engineers Estimate

200 CY @ \$92.00/ CY = \$18,400.00

Actual

149.2 CY @ \$92.00/ CY = \$13,726.40.00

Difference

(-50.8) CY @ \$92.00/ CY = (\$4,673.60)

Finding

Quantity underrun greater than 25%, Contractor did not request adjustment.

Therefore, no adjustment to lump sum price required.

Bid Item # 27 Imported Borrow: ($\Delta = -13\%$)

Engineers Estimate

240 CY @ \$65.00/ CY = \$15,600.00

Actual

209.11 CY @ \$65.00/ CY = \$13,592.15

Difference

(-30.89) CY @ \$65.00/ CY = (\$2,007.85)

Finding

Quantity within 25% of bid quantity. No adjustment to unit price required.

Bid Item # 30 Class 2 Aggregate Base: ($\Delta = -14\%$)

Engineers Estimate

150 CY @ \$100.00/ CY = \$15,000.00

Actual

129.58 CY @ \$100.00/ CY = \$12,958.00

Difference

(-20.42) CY @ \$100.00/ CY = (\$2,042.00)

Finding

Quantity within 25% of bid quantity. No adjustment to unit price required.

COUNTY OF LAKE
DEPARTMENT OF PUBLIC WORKS

CHANGE ORDER MEMORANDUM

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Date 07/10/2017

Bid Item # 43 Midwest Guardrail System: ($\Delta = -10\%$)

Engineers Estimate

75 CY @ \$350.00/ LF = \$26,250.00

Actual

67.5 LF @ \$350.00/ LF = \$23,625.00

Difference

(-7.5) LF @ \$350.00/ LF = (\$2,625.00)

Finding

Quantity within 25% of bid quantity. No adjustment to unit price required.

CCO #3 Item #2: EXTRA WORK AT AGREED LUMP SUM

Grooving of the Bridge decks was attempted on 12/17/2016. The operator told the Resident Engineer that that machine would remove approximately 1.5" to 2" from the bridge deck due to the relatively short vertical curve of the structure. (see attached daily for additional detail). This was not allowed by the Resident Engineer as it violated the project Specifications and would be detrimental to the Structure. Over the following months the Designer and construction management team researched how to best comply with the Caltrans Specifications. It was determined that the equipment of the size required for a structure of this geometry was specialty equipment with only one or two units in the Country. After several site visits and discussions with the Director of Research of the International Grind and Groove Association, it was decided that the grooving would be changed to the transverse direction. The Contractor found a subcontractor who could perform this work and a price was agreed upon. During the time that these events occurred, "grind and groove" was the controlling operation and could not be performed, therefore, the Contractor is entitled to additional working days that represent the time from 12/17/2016 to 3/23/2017 when the operation resumed. The Contractor is granted 64 working day for this item.

This contract ran concurrently with a similar project (Dry Creek) that involved the same prime and sub contractors. It was decided by all that the cost to perform this change in grooving operation would be split evenly between both projects.

Concurred By		ESTIMATE OF COST	
DESIGN ENGINEER DATE:		THIS REQUEST	TO DATE
THU 7/11/20	ITEMS	-\$17,463.45	-\$5,774.05
Robert Ferguson	FORCE ACCOUNT	\$0.00	\$4,304.39
Quincy Engineering	AGREED PRICE	\$7,986.75	\$8,081.75
PROJECT MANAGER DATE:	ADJUSTMENT	\$0.00	\$0.00
Fred Pezeshk	TOTAL	-\$9,476.70	\$6,612.09
Lake County		FEDERAL PARTICIPATION	N
Resident Engineer Signature DATE:	X PARTICIPATING	PARTIC	IPATING IN PA <u>F_</u> 0 NONE
Ramon Montes de Oca / 7/11/1 Quincy Engineering	NON-PARTICIPAT (Maintenance)	ING NON-PA	RTICIPATING

COUNTY of LAKE
DEPARTMENT OF TRANSPORTATION PUBLIC WORKS
Foard Road at Anderson Creek
Bridge Replacement Project

REPORT NO. Cat. 46

DATE: 12/17/16 DAY: <u>Saturday</u> Shift Start: 1130 Stop 1200

BID No. 16-04 FAP No. BRLO-5914

ASSISTANT RESIDENT ENGINEER'S DAILY REPORT

HOURS - ITEMS

•	TOON	11 - 11 L	7715					
	Or	site						
WEATHER	Item 35 – STRUCTURAL CONCRETE, BRIDGE (F)							
Clear am.		Item						
Clear pm.		Item						
Temp. Min. 30 F		Item						
Max 47 F				Ite	em		1	
					Off	job		
							IDLE	
DESCRIPTION							Contr.	Names & Equip. #'s
Superintendent w/TRUCK T&TT 00-06		1			7		Bridgeway	Rafael Jiminez
Laborer w/TRUCK T&TT 12-20		1			7		Bridgeway	Juan Garcia
OE W/ TRUCK T&TT 60		1			7		Penhall	David Bailey
OE W/ TRUCK T&TT 60		1			7		Penhall	Steve Dunbar
Grinder /profiler					8		Penhall	#142-1938
Tribal Monitor	х						Middletown Rancheria	Jesse Reyes

LOCATION & DESCRIPTION OF OPERATION:

Bridgeway

At 0810 I arrived on site at Dry Creek to find no one had arrived yet. Arrival time of the Contractor was anticipated to be between 0800 and 0900.

Before the Contractor arrived, I began checking the deck for with the straight edge to locate any must grinds prior to the profile grinding and grooving. The bridge was covered in dirt and debris – contrary to specifications requiring that the Contractor prep the site before we perform this work. At 0900 the Bridgeway crew and their grinding subcontractor, Penhall, showed up on site.

We made introductions and then began talking about their approach to the work and how they thought that the bridge may be troublesome to grind on profile. We went to mid-span of the bridge and Penhall's operator said his machine would see the vertical curve of the bridge as a "bump" in the road and flatten it out. He explained that they had just come from the

Matthews bridge last night and that the bridge had a flatter profile and they still were required to take a significant amount of material from the high point. He said that this bridge would require even more grinding than Matthews because of the greater profile.

According to the operator, he said he would be cutting about 2.5" from the high point of the deck. This was not acceptable and I questioned why he was not able to just take the maximum allowed ½" off the deck at the high point and his reply was that this machine was a fixed frame machine and it has no adjustment between wheels. The only control they had is with mechanical screws at the four wheel corners that they use to set the depth and sometimes adjust to super elevation changes.

I made calls to the design Engineer to see if he could confirm in Cad what the operator was saying. I measured the wheel base of the grinding machine to be 17' 4" and the cutting head 5' in front of the rear wheels. Greg Young plotted machine dimension in cad along the theoretical profile and found that it would be cutting 5/8 to 3/4" from the surface due to the machine length. This was not acceptable as specifications limit the minimum rebar clearance to 1 3/4" cover. Since 1/4" sacrificial cover was added to the 2" planed dimension per the project specifications, the maximum grind depth would be 1/2".

Everyone then went to the Anderson Creek Bridge to look at that deck to see if it was any better. It turned out to be a worse grind compared to Dry Creek due to vertical curve geometry that would require a deeper grind of about 2.5".

We then returned to Dry Creek and I spoke with Rafael Jimenez (Bridgeway). I told him that according to Penhall, they cannot grind the deck per the project specifications with this machine. He replied yes we will have to figure something else out. Penhall and Bridgeway then began leaving the site. The grinder was never unloaded from the trailer.

I also reminded Rafael that when they perform the grind and groove that the machine will only be able to reach approximately 18" from the railing and that the portion outside that would have to be transitioned from vertical by hand or other alternate method. He said he knew that and was ready to do that as soon as the main grind occurs.

We will request that Bridgeway provide an equipment submittal for the grind and groove operation prior to the next attempt.

Penhall

Penhall arrived on site at about 0900. They never unloaded the grinder form the trailer. We had discussion while standing on the deck. The operator David Bailey said he could not grind this deck with this equipment to the 1/2" maximum grind specification. The crew left at approximately 1242 hours from the Dry Creek site.

Middletown Rancheria

No monitor on site today.

Signature

Title

Ramon Montes de Oca, PE

Assistant Resident Engineer