

COUNTY OF LAKE
Department of Public Works
255 North Forbes Street
Lakeport, CA 95453

CHANGE ORDER NO: 2

DATE: February 11, 2018

PROJECT: Harbin Springs Road at Harbin Creek Bridge Replacement Project
Federal Project No. BRLO-5914(106)

CONTRACTOR: BRIDGEWAY CIVIL CONSTRUCTORS, INC.
4950 Allison Parkway, Suite A
Vacaville, CA 95688-9346

Note: These changes in no way relieve the Contractor of completing work in accordance with standards established by the Standard Specifications and Special Provisions.

ITEM NO.	DESCRIPTION	TIME EXTENSION	VALUE
1	Balancing of all Contract Items quantities.	0	-\$5,268.13
2	Balancing of CCO #1 Force Account Amount	0	-\$1,008.19
		0	-\$6,276.32

REQUESTED BY: Owner/Contractor

REASONS: 1. Balances all Contract Items to reflect actual in-place quantities.
See Attachment A for details.

ORIGINAL CONTRACT WORKING DAYS:	80	Days
TIME EXTENSION ON PREVIOUS CHANGE ORDER(S):	0	Days
TIME EXTENSION FOR THIS CHANGE ORDER:	0	Days
REVISED CONTRACT WORKING DAYS:	80	Days

ORIGINAL CONTRACT AMOUNT:	\$1,092,803.60
AMOUNT PREVIOUS CHANGE ORDERS: (Additions)	185,953.56
AMOUNT PREVIOUS CHANGE ORDERS and ADMINISTRATIVE DEDUCTION: (Deletion):	\$0.00
AMOUNT THIS CHANGE ORDER:	-\$6,276.32
REVISED CONTRACT AMOUNT:	\$1,272,480.84

ACCEPTED: CONTRACTOR

By:



Dylan Honaker, Project Manager 2/15/18
Name and Title Date

RECOMMENDED:

By:


Department of Public Works

Scott De Leon, Director
Name and Title

2/20/2018
Date

APPROVED: OWNER

By:

Board of Supervisors

Jim Steele, Chair
Name and Title

Date

CHANGE ORDER MEMORANDUM

Date
2/12/2018

TO: COUNTY OF LAKE			FILE: COUNTY CONTRACT NO. <u>17-04</u>	
FROM: PAUL CHANG, R.E., 123 ENGINEERING			COUNTY PROJECT NAME <u>Harbin Spring Road Bridge</u>	
			FEDERAL PROJECT NO. <u>BRLO-5914(106)</u>	
CCO NO. <u>2</u>	SUPPLEMENT NO.	CATEGORY CODE	CONTINGENCY BALANCE (Including this change): \$ <u>-125,030.84</u>	
CHANGE ORDER AMOUNT \$ <u>-\$6,276.32</u> <u> </u> INCREASE <u> X </u> DECREASE			COUNTY BOARD OF SUPERVISORS APPROVAL REQUIRED? YES <u> X </u> NO <u> </u>	
SUPPLEMENTAL FUNDS PROVIDED \$ <u>0</u>			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS YES <u> X </u> NO <u> </u>	
ORIGINAL CONTRACT TIME: <u>80</u> DAY(S)	TIME ADJUSTMENT THIS CHANGE: <u>0</u> DAY(S)	PREVIOUSLY APPROVED TIME ADJUSTMENTS: <u>0</u> DAY(S)	PERCENTAGE TIME ADJUSTED (Including this change) <u>0</u> %	TOTAL # OF UNRECONCILED DEFERRED TIME (Including this change) <u>0</u>

This Change Order provides for: ADJUSTING ALL CONTRACT ITEMS TO FINAL IN-PLACE QUANTITIES.

COMPREHENSIVE DESCRIPTION, JUSTIFICATION, AND COST SUMMARY.

This contract change order balances all of the projects contract items to actual final in-place quantities and reduced the remaining balance of force account work.

See Attachment A for details.

Discussion of Contract Items that were increased or decreased.

Item #10 Storm Water Sampling And Analysis Day
Engineers Estimate: 4 EA @ \$1,546.00/ EA = \$6,184.00
Actual: 1 EA @ \$1,546.00/ EA = \$1,546.00
Difference: -3 EA @ \$1,546.00/ EA = (\$4,638.00)
Finding: No adjustment to unit price required for this item.

Item #13 Temporary Fiber Roll
Engineers Estimate: 910 LF @ \$7.00/ LF = \$6,370.00
Actual: 1,052 LF @ \$7.00/ LF = \$7,364.00
Difference: 142 LF @ \$7.00/ LF = \$994.00
Finding: Quantity within 25% of bid quantity. No adjustment to unit price required.

Item #14 Temporary Silt Fence
Engineers Estimate: 500 LF @ \$8.00/ LF = \$4,000.00
Actual: 148 LF @ \$8.00/ LF = \$1,184.00
Difference: -352 LF @ \$8.00/ LF = (\$2,816.00)
Finding: Quantity underrun greater than 25% of bid quantity. Bridgeway did not request an adjustment. Therefore, adjustment to unit price not required.

Item #16 Water Quality Sampling and Analysis Day
Engineers Estimate: 8 EA @ \$612.00 / EA = \$4,896.00
Actual: 6 EA @ \$612.00 / EA = \$3,672.00
Difference: -2 EA @ \$612.00 / EA = (\$1,224.00)
Finding: Quantity within 25% of bid quantity. No adjustment to unit price required.

Item #17 Water Quality Monitoring Report
Engineers Estimate: 4 EA @ \$773.00 / EA = \$3,092.00
Actual: 3 EA @ \$773.00 / EA = \$2,319
Difference: -1 EA @ \$773.00 / EA = (\$773.00)
Finding: Quantity within 25% of bid quantity. No adjustment to unit price required.

Item #22 Roadway Excavation

Engineers Estimate: 890 CY @ \$87.00/ CY = \$77,430.00

Actual: 878.90 CY @ \$87.00/ CY = \$76,464.30

Difference: -11.1 CY @ \$87.00/ CY = (\$965.70)

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

Item #25 Structure Excavation (Rock Type D)

Engineers Estimate: 16 CY @ \$241.00/ CY = \$3,856.00

Actual: 16.638 CY @ \$241.00/ CY = \$4,009.76

Difference: 0.638 CY @ \$241.00/ CY = \$153.76

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

Item #29 Erosion Control (Bonded Fiber Matrix)

Engineers Estimate: 3,560 SQFT @ \$0.62/ SQFT = \$2,207.20

Actual: 6,500 SQFT @ \$0.62/ SQFT = \$4,030.00

Difference: 2,940 SQFT @ \$0.62/ SQFT = \$1,822.80

Finding: Quantity overrun greater than 25% of bid quantity. Bridgeway did not request an adjustment. Therefore, adjustment to unit price not required.

Item #30 Class 2 Aggregate Base (CY)

Engineers Estimate: 130 CY @ \$158.00/ CY = \$20,540.00

Actual: 127.60 CY @ \$158.00/ CY = \$20,160.80

Difference: -2.40 CY @ \$158.00/ CY = (\$379.20)

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

Item #31 Hot Mix Asphalt (Type A)

Engineers Estimate: 80 TON @ \$339.00/ TON = \$27,120.00

Actual: 93.99 TON @ \$339.00/ TON = \$31,862.61

Difference: 13.99 TON @ \$339.00/ TON = \$4,742.61

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

Item #37 Architectural Treatment

Engineers Estimate: 634 SQFT @ \$16.00/ SQFT = \$10,144.00

Actual: 507 SQFT @ \$16.00/ SQFT = \$8,112.00

Difference: -127 SQFT @ \$16.00/ SQFT = (\$2,032.00)

Finding: Abutment #2 quantity was reduced due to improper installation of formliner joints.

Item #46 Rock Slope Protection Fabric (Class 9)

Engineers Estimate: 370 SQFT @ \$5.00/ SQFT = \$1,850.00

Actual: 339.32 SQFT @ \$5.00/ SQFT = \$1,696.60

Difference: -30.68 SQFT @ \$5.00/ SQFT = (\$153.40)

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

Decrease in Bid Items at Bid Unit Prices: \$5,268.13

CCO #1 Extra Work at Force Account

Engineers Estimate: \$60,512.00

Actual: \$59,503.81

Difference: (\$1,008.19)

Decrease in Force Account Work: \$1,008.19

CONCURRED BY:		ESTIMATE OF COST		
	DATE:		THIS REQUEST	TOTAL TO DATE
DESIGN ENGINEER		ITEMS		
Quincy Engineering	N/A	FORCE ACCOUNT	-\$5,268.13	-\$5,268.13
		AGREED PRICE	-\$1,008.19	\$59,503.81
RESIDENT ENGINEER				
Paul Chang	2/12/2018	ADJUSTMENT	\$0.00	\$121,000.00
			\$0.00	\$4,441.56
PUBLIC WORKS DIRECTOR		TOTAL	-\$6,276.32	\$179,677.24
Scott De Leon		FEDERAL PARTICIPATION		
		☒ PARTICIPATING	☐ PARTICIPATING IN PART	☐ NONE
OTHER		☐ NON-PARTICIPATING (Maintenance)	☐ NON-PARTICIPATING	

BALANCING OF FINAL IN-PLACE QUANTITIES

CONTRACT AMOUNT				FINAL IN-PLACE QUANTITIES				DIFFERENCE	
BASE BID	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITIES	UNIT COST	TOTAL	QTY / %	TOTAL	QTY / %	TOTAL
1	FURNISH FIELD OFFICE	1	LS	\$27,520.00	\$27,520.00	1.00	\$27,520.00	0	\$ -
2	CONSTRUCTION STAKING	1	LS	\$16,000.00	16,000.00	1.00	16,000.00	0	-
3	CONSTRUCTION AREA SIGNS	1	LS	\$3,607.00	3,607.00	1.00	3,607.00	0	-
4	TRAFFIC CONTROL SYSTEM	1	LS	\$2,829.00	2,829.00	1.00	2,829.00	0	-
5	TYPE III BARRICADE	5	EA	\$97.00	485.00	5.00	485.00	0	-
6	TEMPORARY RAILING (TYPE K)	60	LF	\$40.00	2,400.00	60.00	2,400.00	0	-
7	JOB SITE MANAGEMENT	1	LS	\$10,705.00	10,705.00	1.00	10,705.00	0	-
8	PREPARE STORM WATER POLLUTION PREVENTION PLAN	1	LS	\$2,554.00	2,554.00	1.00	2,554.00	0	-
9	RAIN EVENT ACTION PLAN	5	EA	\$70.00	350.00	5.00	350.00	0	-
10	STORM WATER SAMPLING AND ANALYSIS DAY	4	EA	\$1,546.00	6,184.00	1.00	1,546.00	-3.00	(4,638.00)
11	STORM WATER ANNUAL REPORT	1	EA	\$928.00	928.00	1.00	928.00	0	-
12	TEMPORARY DIVERSION SYSTEM	1	LS	\$47,061.00	47,061.00	1.00	47,061.00	0	-
13	TEMPORARY FIBER ROLL	910	LF	\$7.00	6,370.00	1,052.00	7,364.00	142.00	994.00
14	TEMPORARY SILT FENCE	500	LF	\$8.00	4,000.00	148.00	1,184.00	-352.00	(2,816.00)
15	TEMPORARY CONCRETE WASHOUT	1	LS	\$1,970.00	1,970.00	1.00	1,970.00	0	-
16	WATER QUALITY SAMPLING AND ANALYSIS DAY	8	EA	\$612.00	4,896.00	6.00	3,672.00	-2.00	(1,224.00)
17	WATER QUALITY MONITORING REPORT	4	EA	\$773.00	3,092.00	3.00	2,319.00	-1.00	(773.00)
18	CONTRACTOR-SUPPLIED BIOLOGIST (LS)	1	LS	\$11,169.00	11,169.00	1.00	11,169.00	0	-
19	FISH PROTECTION	1	LS	\$10,843.00	10,843.00	1.00	10,843.00	0	-
20	SALVAGE BAILEY BRIDGE	1	LS	\$18,825.00	18,825.00	1.00	18,825.00	0	-
21	CLEARING AND GRUBBING (LS)	1	LS	\$12,000.00	12,000.00	1.00	12,000.00	0	-
22	ROADWAY EXCAVATION	890	CY	\$87.00	77,430.00	878.90	76,464.30	-11.10	(965.70)
23	STRUCTURE EXCAVATION (BRIDGE) (F)	203	CY	\$135.00	27,405.00	203.00	27,405.00	0	-
24	STRUCTURE EXCAVATION (TYPE D) (F)	106	CY	\$130.00	13,780.00	106.00	13,780.00	0	-
25	STRUCTURE EXCAVATION (ROCK, TYPE D)	16,000	CY	\$241.00	3,856.00	16,638	4,009.76	0.638	153.76
26	STRUCTURE BACKFILL (BRIDGE) (F)	151	CY	\$141.00	21,291.00	151.00	21,291.00	0	-
27	IMPORTED BORROW (CY)	180	CY	\$76.00	13,680.00	180.00	13,680.00	0	-
28	VEGETATED ROCK SLOPE PROTECTION	110	LF	\$27.00	2,970.00	110.00	2,970.00	0	-
29	EROSION CONTROL (BONDED FIBER MATRIX) (SOFT)	3,560	SOFT	\$0.62	2,207.20	6,500.00	4,030.00	2,940.00	1,822.80
30	CLASS 2 AGGREGATE BASE (CY)	130	CY	\$158.00	20,540.00	127.60	20,160.80	-2.400	(379.20)
31	HOT MIX ASPHALT (TYPE A)	80	TON	\$339.00	27,120.00	93.99	31,862.61	13.99	4,742.61
32	TACK COAT	0.1	TON	\$8,444.00	844.40	0.10	844.40	0	-
33	TEMPORARY BRIDGE	1	LS	\$115,478.00	115,478.00	1.00	115,478.00	0	-
34	STRUCTURAL CONCRETE BRIDGE (F)	53	CY	\$400.00	21,200.00	53.00	21,200.00	0	-
35	STRUCTURAL CONCRETE BRIDGE (POLYMER FIBER) (F)	104	CY	\$950.00	88,400.00	104.00	88,400.00	0	-
36	STRUCTURAL CONCRETE BRIDGE (POLYMER FIBER) (F)	118	CY	\$1,000.00	118,000.00	118.00	118,000.00	0	-
37	ARCHITECTURAL TREATMENT (F)	534	SOFT	\$16.00	8,544.00	507.00	8,112.00	-127.00	(2,032.00)
38	BAR REINFORCING STEEL (BRIDGE) (F)	47,258	LB	\$1.50	70,887.00	47,258.00	70,887.00	0	-
39	BRIDGE REMOVAL	1	LS	\$20,000.00	20,000.00	1.00	20,000.00	0	-
40	WELDED STEEL PIPE CASING (BRIDGE)	60	LF	\$215.00	12,900.00	60.00	12,900.00	0	-
41	REMOVE PIPE (LF)	150	LF	\$32.00	4,800.00	150.00	4,800.00	0	-
42	REMOVE MANHOLE	1	EA	\$3,000.00	3,000.00	1.00	3,000.00	0	-
43	ROCK SLOPE PROTECTION (1/4 T. METHOD B) (CY) (F)	193	CY	\$130.00	25,090.00	193.00	25,090.00	0	-
44	ROCK SLOPE PROTECTION (NO.3 METHOD B) (CY) (F)	21	CY	\$200.00	4,200.00	2.10	420.00	0	-
45	ROCK SLOPE PROTECTION (NO.1 METHOD B) (CY) (F)	115	CY	\$151.00	17,515.00	115.00	17,515.00	0	-
46	ROCK SLOPE PROTECTION (NO.1 METHOD B) (CY) (F)	370	SOYD	\$5.00	1,850.00	339.32	1,696.60	-30.68	(153.40)
47	PREPARE AND STAIN CONCRETE	1,283	SOFT	\$10.00	12,830.00	1,283.00	12,830.00	0	-
48	DELINEATOR (BRIDGE MOUNTED) (TYPE E)	2	EA	\$100.00	200.00	2.00	200.00	0	-
49	OBJECT MARKER (TYPE P)	2	EA	\$145.00	290.00	2.00	290.00	0	-
50	REMOVE ROADSIDE SIGN	3	EA	\$103.00	309.00	3.00	309.00	0	-
51	TRANSITION RAILING (TYPE WB-31)	2	EA	\$9,662.00	19,324.00	2.00	19,324.00	0	-
52	ALTERNATIVE IN-LINE TERMINAL SYSTEM	2	EA	\$6,377.00	12,754.00	2.00	12,754.00	0	-
53	CALIFORNIA ST-10 BRIDGE RAIL (F)	130	LF	\$250.00	32,500.00	130.00	32,500.00	0	-
54	MOBILIZATION	1	LS	\$100,000.00	100,000.00	1.00	100,000.00	0	-
CCO #1	FOOTHILL YELLOW LEGGED FROG	185,954	EA	\$1.00	185,953.56	184,945.37	184,945.37	-1,008.19	(1,008.19)
TOTAL					\$1,278,757.16		\$1,272,480.84		-\$6,276.32