

SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



SUBMITTAL DATE: January 6, 2015

FROM: General Manager-Chief Engineer

SUBJECT:

Approve Contract Change Order No. 2. Eagle Canyon Dam and Debris Basin, Project No. 6-0-00190, 4th District

\$998,762] District Funds 100%

RECOMMENDED MOTION: That the Board of Supervisors:

Ratify the attached Contract Change Order No. 2 between the District and Hal Hays Construction, Inc., providing compensation for extra work required and extending the total contract working days for the completion of the Eagle Canyon Dam and Debris Basin due to changed conditions.

BACKGROUND:

Summary

On November 4, 2014, the basis for this Change Order was reviewed by the Capital Project Review Committee (as established by Board of Supervisors, Item 3.40, November 7, 2006). The finding of the Committee was that the change request should be recommended for approval.

Continued on Page 2.

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WARREN D. WILLIAMS General Manager-Chief Engineer

FINANCIAL DATA	Current Fiscal Year:		Next Fiscal Year:	Year: Total Cost:		Ongoing Cost:	POLICY/CONSENT (per Exec. Office)	
COST	\$	998,762	\$	\$	998,762	\$	Consent □ Policy □	
NET DISTRICT COST	\$	998,762	\$	\$	998,762	\$	Consent D Policy D	

SOURCE OF FUNDS: 25160 947500 527980

Zone 6 Const/Maint/Misc-Contracts

Budget Adjustment: No

For Fiscal Year: 14/15

C.E.O. RECOMMENDATION:

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

Positions Added Change Order \boxtimes 4/5 Vote

Prev. Agn. Ref.: 11-2 of 02/26/13

District: 4th,

Agenda Number:

SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

FORM 11: Approve Contract Change Order No. 2, Eagle Canyon Dam and Debris Basin,

Project No. 6-0-00190, 4th District [\$998,762] District Funds 100%

DATE: January 6, 2015 PAGE: Page 2 of 2

BACKGROUND:

Summary (continued)

The Board approved a contract with Hal Hays Construction, Inc., in the amount of \$9,849,777 as Agenda Item Number 11-2 on February 26, 2013.

Per Section II, Article 2.07A, Board authorization of Contract Change Order No. 2 is necessary to ratify payment for Extra Work associated with the spillway modifications that are necessary to assure long-term stability of exposed rock cut slopes at the spillway. (See Change Order Report below for Technical Summary).

This Contract Change Order is set at a not to exceed cost of \$1,535,106. However, we have realized substantial savings on other items by designing the contract bid items to scale to actual quantities (particularly the site remediation items). Taking into account the savings, the adjusted authorized contract amount is \$10,848,539, which is \$998,762 (10.1%) above the original authorized contract amount (reflected in Financial Data field on Page 1 of this Form 11).

This significant additional new work requires an extension of contact working days from 350 to 544.

County Counsel has reviewed this matter and has approved the attached change order as to legal form.

A. CHANGE ORDER REPORT

NUMBER	AMOUNT	PERCENT	DESCRIPTION
Change Order No. 1	\$0	0%	Extension of Working Days
Change Order No. 2	\$1,535,106	15.6%	Spillway Geotechnical Issues

Change Order No. 2 Technical Summary - The project's original geotechnical investigation concluded that the cut slopes in the spillway would be stable under static and seismic conditions. However, in one area, the joints and fractures in the rock were found to be more extensive than expected and oriented such that seismic loading could cause rock to fall onto the right side of the spillway. The District, in consultation with our onsite geotechnical consultant, has determined that the most efficient remedy is additional concrete lining bolstered by rock bolt anchors (also known as tie-backs) to lock down the problematic cut slope. The approved plans and specifications did not include specialized work of this nature.

District Design staff and our geotechnical consultant worked up design drawings and detailed specifications for the additional work. The revised plans and specifications were reviewed and approved by the State of California Division of Safety of Dams. The District then negotiated the cost of the new work with our Contractor and Subcontractors.

Hal Hays' onsite drilling and blasting Subcontractor (Edick and Watt, Inc.) is experienced with installation of rock bolt anchorage systems and will be used to perform the specialty work. Edick and Watt, Inc. carried out the small-scale proof-of-concept testing needed to finalize the scope of the rock bolting design and they performed well.

As described in detail in the attached change order, four individual new contract items will be added in accordance with Section II, Article 2.07 and Section VII, Article 7.03 of the General Provisions.

BY: NEAL R. KIPNIS DATE

RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

	Eagle Canyon Dam		<u> </u>		Sheet1 of1	sheets
	Project No. 6-0-001		TOUANCE	OBDED NO	2	
_			CHANGE	ORDER NO		Ozztanaton
You are her	Hal Hays Construct reby directed to make the the plans and specification	e herein described ch	nanges from the pl	ans and specification	ns or to do the following des	, Contractor cribed work not
NOTE: TH	IS CHANGE ORDER IS N PERVISORS OF THE DISTI	IOT EFFECTIVE UNTI			AGER-CHIEF ENGINEER OR	
Description o	f work to be done, estimate actually used and no allowar	of quantities, and price			s for rental of equipment cover of	only such time as
necessary investigat and seisr extensive spillway. efficient r	y to assure long-ter tion performed for the mic conditions. Ho than expected and The District, in co	m stability of ex- ne project conclude wever, in one a oriented such the nsultation with o concrete lining l	posed rock cu ded that the cu rea, the joints nat seismic loa ur onsite geot polstered by ro	t slopes at the s t slopes in the sl and foliation in ding could cause echnical consult ock bolts (also ki	the spillway modification of the spillway. The original spillway would be stable the rock were found the rock fall onto the right ant, has determined the nown as tie-backs). The spill of	geotechnical under static to be more at side of the most
and appronue work on four in No. 59, 5 through 5 Article 7.0	oved by the State of with our Contractor or dividual new contraction in the state of the state o	f California Division and Subcontract ct items: Item Noth (Rock); and Iter ividual lump sum covisions. Contra	on of Safety of tors. The Extra o. 57, Rock Bo n No. 60, Con l basis in acco ct Item No. 60	Dams. The Disa Work described Its; Item No. 58, tract Extension rdance with Secwill be based or	ons. The new plans we strict then negotiated the din this change order of Class "A" Concrete, Soverhead. Contract lition II, Article 2.07 and a monthly unit price in ons.	e cost of the will be based pillway; Item tem Nos. 57 Section VII,
associate Item No.	ed with Item No. 58,	Class "A" Conc ation (Rock) is	rete, Spillway 3213,911.28; th	is \$334,240.00; ne monthly unit	\$128,300.00; the lum the lump sum cost ass price associated with i	sociated with
The total	not to exceed cost f	or this change or	der is \$1,535,1	05.91.		
make no including	claim for additiona	I compensation and covered	against District	related to this	king days. Contractor project extension of w terial hauling, or other	orking days,
,			Estimated Cost:	Decrease \$	or Increase \$ <u>1,535,10</u>	5.91
	this order the time of ill be adjusted as follows:	Additional 194 w	orking days.			
Completion in	17/1	////	3 11,1			/
Submitted by	ROBERT JA	ULLEN, Chief of Design	and Construction Di	vision	Date: 8 Decem	Ser 2019
Approved:	unanh	WILLIAMS, General Ma	(Date:	14_
	1111.001.1010.30	2.000	Tager Office Engineer		Date:	
	Chairman, Bo	pard of Supervisors				
equipment, fu	ersigned Contractor, have giv urnish all materials, except a refor the prices shown above	s may be otherwise note	to the change propo d above, and perform	sed and hereby agree, all services necessary	if this proposal is approved, that for the work above specified, and	we will provide all d will accept as full
Accepted: Da	ate_DECEMBER	9,2014		Contractor	L HAYS CONSTRUC	mon, Inc.
By. Trus	5e/m. 1	CIRBY S. HA-	15	Title PRESID	ENT/CEO	

If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to the proceeding with the ordered work and filing a written protest within the time therein specified.