

E2 Shear Key S1/S2 and Anchor Rod CCO Tracking Status

CCO NO.	Description	Reference	Work Performed By	Method of Payment	Rough Order of Magnitude (per ABFJV, 5/14/13) Revised 5/22/13	Engineer's Estimate 5/31/13	CCO Net Dollar Amount (Adds & Credits)	Date of TBPOC Approval	ATP Letter to ABF	Executed Date	EWB Submitted	ABFJV Spent to Date (Info known as of 6/3/13)	TBPOC Notes
Field Work													
320	Temporary Bearing Shimming	Install steel shim plates between the temporary bearing foot and a temporary jacking lug welded to the temporary bearing base plate. (RFI 3242)	ABFJV	LS	\$ 100,000.00	\$ -	\$ 100,000.00		5/21/13				To TBPOC June 6, 2013 meeting for approval
325	Concrete Demolition	- E-2 Concrete Demolition - Surface prep. (bush hammering)	Conco	EWFA	\$ 750,000.00	\$ 503,000.00	\$ 750,000.00		5/21/13			\$ 207,309	To TBPOC June 6, 2013 meeting for approval
329	E2 Shear Key Concrete	Forming, placing, curing, and finishing concrete	Conco	EWFA	\$ 1,000,000.00	\$ 1,616,000.00							
326	Concrete Coring	E-2 Concrete Coring + Keyway saw cutting + water disposal	Penhall	EWFA	\$ 1,000,000.00	\$ 189,000.00	\$ 1,500,000.00		5/28/13			\$ 542,537	To TBPOC June 6, 2013 meeting for approval
327	ABFJV Field Work	All ABFJV Field work and subcontractor support, incl.: - Mob. and Demob. access/falsework/platforms, etc. - Field work and subcontractor support - Survey, Testing, and QC - Install Steel Saddle (set, grout into place, etc.) - Final Field paint and touch-up	ABFJV	EWFA	\$ 2,000,000.00	\$ 1,305,000.00	\$ 450,000.00		5/21/13			\$ 767,396	To TBPOC June 6, 2013 meeting for approval
328	Bar Reinforcing Steel	Furnish and place rebar	Harris Salinas	EWFA	\$ 500,000.00	\$ 844,000.00						\$ 110,158	
330	Post Tensioning	Furnish strand/anchors, install, stress, grout, etc	Schwager Davis	EWFA	\$ 1,000,000.00	\$ 630,000.00							
Subtotal					\$ 6,350,000.00	\$ 5,087,000.00	\$ 2,800,000.00					\$ 1,627,400	
Fabrication													
313	Shear Key Materials	Procuring the necessary long lead time materials for Pier E2 Shear Keys 1 & 2 Steel Saddle.	Leeco, XKT Evraz	EWFA	\$ 1,500,000.00	\$ 1,500,000.00	\$ 1,500,000.00		4/19/2013 5/21/13			\$ 1,455,566.12	To TBPOC June 6, 2013 meeting for approval
319	E2 Shear Key Fabrication	Fabricate Steel Saddle	XKT	EWFA	\$ 2,000,000.00	\$ 1,040,000.00							
Subtotal					\$ 3,500,000.00	\$ 2,540,000.00	\$ 1,500,000.00					\$ -	\$ 1,455,566
Subtotal (Field Work & Fabrication)					\$ 9,850,000	\$ 7,627,000	\$ 4,300,000					\$ -	\$ 3,082,966
*TBPOC Approved Expenditure (Field Work & Fabrication)							\$ 4,300,000				\$ 4,300,000	\$ 4,300,000	
Remaining Funds from TBPOC Approved Expenditure (Field Work & Fabrication)							\$ -				\$ 4,300,000	\$ 1,217,034	
Testing/ Rod Replacement													
312	Furnish Anchor Rods	Furnishing twenty (20) replacement ASTM A354 Grade BD anchor bolt assemblies for the Pier E2 Crossbeam Shear Keys and Orthotropic Box Girder (OBG) Bearings. Performing one embrittlement test per anchor bolt lot on the full size diameter threaded section.	Dyson	EWFA	\$ 150,000.00		\$ 100,000.00		4/19/13 4/24/13			\$ 118,375.40	
314	Remove, Replace & Test Sample Rods	-Removing anchor rods from Pier E2 shear keys and bearings. Retensioning the selected rods to 0.75 Fu, re-securing the nut, and then letting the rods sit for a period of 24 hours prior to removal. At an independent testing laboratory, loading the removed rods to failure. -Removing galvanizing from the top of shear key and bearing rods. After the Department has performed hardness tests on the rods, replacing the galvanizing that was removed with inorganic zinc primer. -Removing and test anchor rod from Tower -Wet Test -Removal of the following rods: S3 Rod D2, S4 Rod E2,B1 Rod F4, B2 Rod F5 -Removing galvanizing from the top of 194/388 3" tower anchor rods and 36/36 4" tower rods -Procure and fabricate materials for the test rig for wet test as detailed in the attached plan sheets	ABFJV + subs (Carpenter Rigging, etc)	EWFA	\$ 500,000.00		\$ 200,000.00		4/19/13 5/3/13 (email) 5/6/13 5/7/13 5/21/13 5/23/13 (2ATPs)			\$ 200,000.00	
Subtotal					\$ 650,000		\$ 300,000					\$ -	\$ 318,375
**TBPOC Approved Expenditure							\$ 1,000,000				\$ 1,000,000	\$ 1,000,000	
Remaining Funds from TBPOC Approved Expenditure							\$ 700,000				\$ 1,000,000	\$ 681,625	

*4/11/13 TBPOC Meeting: TBPOC approved an expenditure of up to \$4.3M to (1) purchase replacement rods, (2) secure long lead materials for retrofit strategy B and C, and (3) to keep retrofit strategy A in play, but not to spend any of the approved \$ on it.

**5/9/13 TBPOC Meeting: TBPOC Meeting- The TBPOC approved a not-to-exceed amount of \$1 M for the wet test of 2010 bolts, and revised the April 11 approval for the \$4.3 M expenditure to include all E2 shear key anchor bolt activities. See meeting minutes.