

# RCFC & WCD

2018

May 13, 2019

Calendar On

2018 - 0089 -

DATE

PROJECT NUMBER

INDIO MDP- AVENUE 48 ALTERNATIVE 1

PROJECT NAME

CONSTRUCTION COST	\$	20,560,995
PLUS 22% LUMP SUM ITEMS	+	4,523,419
PLUS 12% CONTINGENCY	+	2,467,319
SUBTOTAL	=	27,551,733
ENV. MITIGATION COSTS	+	0
PLUS 25% ENG & ADMIN	+	5,757,079
PLUS 3% MSHCP MITIGATION FEE	+	690,849
RIGHT-OF-WAY	+	0
<b>TOTAL</b>		<b>\$ 34,000,000</b>

DATE OF R/W ESTIMATE

## ADDITIONAL INFORMATION

PROJECT  
LENGTH  
00 + 00

RESPONSIBLE  
SECTION

ENGR. INT.

## PROJECT TYPE:

Flood Control     Water Conservation     Water Quality Enhancement     Ground Water Recharge

Other    CITY OF INDIO MDP

## PROJECT DESCRIPTION:

AVENUE 48 MDP DRAINAGE FACILITY, INCLUDING STORM DRAIN PIPE, EXISTING BASIN MODIFICATION, PARKWAY INFILTRATION TRENCH, CONCRETE TRAP CHANNEL ALTERNATIVE (RCP OR RCB), TUNNELING UNDER R/R TRACKS... FROM SHIELDS ROAD TO CVSWC (WHITE WATER RIVER CHANNEL)

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
2018 PROJECT PLANNING COSTS**

PROJECT DESCRIPTION:

INDIO MDP- AVENUE 48 ALTERNATIVE 1

ITEM	UNIT	QUANTITY	CRITERIA	2018 Cost	TOTAL
TRAP. CHANNEL EXCAVATION	CY		b > 8	\$6.60	
			b ≤ 8	\$9.20	
RCB & RECT. CHAN. EXCAVATION	CY	22150	b > 12	\$8.00	
			b ≤ 12	\$12.10	\$268,015
COMPACTED FILL	CY		EXC > FILL	\$3.25	
			EXC < FILL	\$7.30	
STRUCTURE BACKFILL	CY	9600		\$10.40	\$99,840
TRAP. CHANNEL CONCRETE	CY		b > 8 <sup>1</sup>	\$380.00	
			b ≤ 8	\$480.00	
R.C.B. CONCRETE (INCLUDING STEEL)	CY	4900	L > 150	\$720.00	\$3,528,000
			L < 150	\$860.00	
RECT. CHAN. CONC. (INCLUDING STEEL)	CY		L > 150	\$440.00	
			L < 150	\$615.00	
CUTOFF WALL (2' TYP.)	LF			\$13.50	
SUBDRAIN	LF		6 < b ≤ 16	\$12.50	
			b > 16	\$25.00	
FENCING (6' TYP.)	LF			\$21.30	
CATCH BASINS	LF	1164		\$560.00	\$651,840
MANHOLES (PIPE)	EA	18	FOR MAINLINE	\$6,200.00	\$111,600
		40	FOR JUNCTION	\$8,000.00	\$320,000
MANHOLES (RCB)	EA	6		\$2,100.00	\$12,600
HOT MIX ASPHALT (HMA) TYPE A <sup>3</sup>	SF			\$3.00	
CLASS 2 BASE (3" THICK)	SF			\$0.40	
ROCK SLOPE PROTECTION <sup>4</sup> CONC.-ROCK SLOPE PROTECTION	CY <sup>2</sup>			\$80.00	
				\$130.00	
STORM DRAINS	SEE STORM DRAIN COST SHEET				\$13,365,500
SLAB BRIDGES	LBS	SEE BRIDGE COST SHEET	REBAR CONCRETE	\$1.10	
	CY			\$540.00	
MISCELLANEOUS COSTS	SEE MISCELLANEOUS COST SHEET				\$2,203,600
DAM & BASIN COSTS	SEE DAM & BASIN COST SHEET				
1. No.4 bars at 18 inches 2. 1.9 tons/cy 3. Includes 4" A.C. & 8" A.B. 4. Use 75% for large installations (>1000cy) 5. Use 125% of rock slope protection to determine concreted-rock quantity 6. i.e. Mobilization, Water Control, etc. 7. Connector pipe, etc. 8. Cell typically only used for ADP Updates.	CONSTRUCTION COST				\$20,560,995
	LUMP SUM ITEMS (22%) <sup>6</sup>				\$4,523,419
	CONTINGENCIES (12%) <sup>7</sup>				\$2,467,319
	SUBTOTAL				\$27,551,733
	ENG & ADMIN. (25%); MSHCP MITIGATION FEE: (3%) ? <input checked="" type="checkbox"/> ON FOR YES				\$6,447,928
AS-BUILT COSTS <sup>8</sup>				\$0	
ENV. MITIGATION COSTS (LS)				\$0	
R/W (FROM R/W SHEET)				\$0	
R/W (FROM DAM & BASIN SHEET)				\$0	
NAME & DATE				TOTAL	\$33,999,661
05/13/19					

rev. 9/21/2017



## RCB QUANTITY SUMMARY SHEET

MDP / ADP

INDIO MDP- AVENUE 48 ALTERNATIVE 1

FACILITY

5/13/19

DATE

ENGINEER

	Location	No. Cells	Cell Height (FT)	Cell Width (FT)	Concrete per Cell (CF/LF) <sup>1</sup>	Length (FT)	Depth from F.G. to Top of RCB (FT)	Avg. Overburden E.G. to F.G. (FT)	RCB Height (FT) <sup>2</sup>	RCB Width (FT) <sup>2</sup>	Concrete (CY)	Trench Depth Below F.G. (FT)	Sloped or Shored Trench	Height of Sloped Portion of Trench (FT)	Structural Excavation (CY) <sup>3</sup>	Structural Backfill (CY) <sup>3</sup>	R/W Width (FT) <sup>4</sup>	R/W (AC)	With Overburden			
																			Overburden Excavation (CY)	R/W Width (FT) <sup>5</sup>	R/W (AC)	
1	DILLON ROAD	1	7.0	12.0	44.0	3000.0	3.0	2.0	8.50	13.33	4888.9	11.5	Shored		22149.0	9555.8	31.5	2.17	7343.1	34.5	2.38	
2									0.00	0.00		0.0		0.0	0.0	0.0						
3									0.00	0.00		0.0		0.0	0.0	0.0						
4									0.00	0.00		0.0		0.0	0.0	0.0						
5									0.00	0.00		0.0		0.0	0.0	0.0						
6									0.00	0.00		0.0		0.0	0.0	0.0						
7									0.00	0.00		0.0		0.0	0.0	0.0						
8									0.00	0.00		0.0		0.0	0.0	0.0						
9									0.00	0.00		0.0		0.0	0.0	0.0						
10									0.00	0.00		0.0		0.0	0.0	0.0						
11									0.00	0.00		0.0		0.0	0.0	0.0						
12									0.00	0.00		0.0		0.0	0.0	0.0						
13									0.00	0.00		0.0		0.0	0.0	0.0						
14									0.00	0.00		0.0		0.0	0.0	0.0						
15									0.00	0.00		0.0		0.0	0.0	0.0						
16									0.00	0.00		0.0		0.0	0.0	0.0						
17									0.00	0.00		0.0		0.0	0.0	0.0						
18									0.00	0.00		0.0		0.0	0.0	0.0						
19									0.00	0.00		0.0		0.0	0.0	0.0						
20									0.00	0.00		0.0		0.0	0.0	0.0						
						3,000						4,889						22,149	9,556	2.2	7,343	2.4

rev. 9/21/2017

1. Caltrans Standard Plans, 2010, D80 & D81.
2. Assumes wall thickness, t2 = 8", roof and invert slab thicknesses, t1, t3 = 9".
3. Below finish grade, per RCB pay lines (normal condition), Std. Dwg. No. M815. Refer to "Storm Drain Easement Widths," RCFC, Nov. 10, 1987 for sloped or shored trench sections.
4. "Storm Drain Easement Widths," RCFC, Nov. 10, 1987. Assumes a minimum width of 10' for construction access, the width of the sloped excavation, or the width of the shored excavation plus 8', whichever is greater.
5. Assumes cut slopes of 0.75H:1V between overburden and finish grade.