

MARCH JOINT POWERS AUTHORITY



DRAINAGE INFRASTRUCTURE

DATE: April 2023

PURPOSE

To provide information and overview of the drainage facilities bordering March Air Reserve Base.

DISCUSSION

- March Air Reserve Base was historically subject to considerable flooding. There are three main facilities that border MARB and provide storm water drainage. On its Eastern Border is the Heacock Channel. On the Western Border of the base runs the Perris Valey Extension, Lateral B un-improved drainage facility. On the Northern border of the base is the Cactus Channel unimproved drainage facility.

- Heacock Channel

-- A major 2004 flooding event forced a brief closure of March Air Reserve Base (MARB) resulting in regional meetings between local and federal officials seeking solutions to improve the channel to alleviate flooding concerns on the Base. March JPA with Riverside County Flood Control District and MARB officials were able to complete a significant improvement project in 2019 that effectively removed a large part of MARB from a flood plain.

- Lateral B

-- The Perris Valley system runs from West of the -I-215 freeway, North of MARB, along the Western border of MARB. This is a dirt, un-improved system. The recent project, VIP 215, funded a portion of the system improvements. March JPA is working with another developer, at no cost to the Air Force, to improve the facility West of the I-215 freeway. And finally, March JPA, Riverside County Flood Control, and MARB signed an MOU to develop cost and schedule for the remaining portion of the facility South of the VIP 215 project. This MOU is at no cost to the Air Force.

-- Status: We are working closely with Riverside Flood Control District, Air Force Reserve Command, and March Air Reserve Base. We have a signed cooperative agreement with the AFR and Riverside County Flood Control to finish the remainder of the channel that borders March ARB. Progress is going well and we hope to complete construction within the next 2-4 years. California Environmental Quality Analysis should be complete by June 2023 and the AF EBS was already completed and approved. Part of the facility will be on AF property, so an easement package has been submitted to the Installation Commander.

- Cactus Channel

-- The Cactus Channel is an approximately 2.5 mile, un-improved facility that stretches along the Northern border of MARB from the I-215 freeway to the terminus in the Heacock Channel. The improvements to this channel were discussed in 2004 as a part of the flooding event. Until recently, only the Heacock Channel has been improved. Though the Heacock Channel provided significant flooding reduction, the Cactus Channel still requires improvement.

Project Delivery Cost Estimate -	
	\$20,800,000 All Underground Construction Contract Estimate (CCE)
	\$2,080,000 DESIGN COST, Eng & Enviro & Admin of CCE
	\$624,000 MSHCP (3%) of CCE
	\$5,180,000 Offsite Mitigation 7.4ac @ 2:1 X \$350,000 per acre
	\$28,684,000 PROJECT total cost

Cost Share Summary -		\$28,684,000 PROJECT total cost	
<i>Fixed Price Partners: Contribution</i>			
DISTRICT CONTRIBUTION	\$9,000,000	31%	
CITY CONTRIBUTION	\$573,680	2% of PROJECT total cost (as previously shown)	
	\$19,110,000 Remaining Funding Gap		
<i>Frontage Prorated Partners:</i>			
	Proration	Proration (%)	Contribution
USAF CONTRIBUTION	(900ft/7700ft)	12%	\$2,233,636
USDA CONTRIBUTION	(1575ft/7700ft)	20%	\$3,908,864
MERIDIAN CONTRIBUTION	(2365ft/7700ft)	31%	\$5,869,500
MARCHLIFE CONTRIBUTION	(2860ft/7700ft)	37%	\$7,098,000
	<i>Total Project Length:</i>	7700 ft	\$19,110,000

-- Status: We are working closely with Riverside Flood Control District, Air Force Reserve Command, and March Air Reserve Base to request the Air Force consider funding the portion of the un-improved channel that is on base property. Design of the proposed facility is at the 95% level. We are now working through funding and easement approvals by the Air Force and USDA. Once fully constructed, the Riverside County Flood Control District will take ownership and provide maintenance to the facility.

RECOMMENDATIONS / REQUESTS

- We are aware of the potential for flooding impacts to the base due to the Lateral B and Cactus Channel's and seek AF Reserve assistance to address these issues.

-- Lateral B: Continued engagement by AFRC personnel to support the Easement requests for construction and maintenance.

-- Cactus Channel: Continued engagement by AFRC and 452 AMW personnel to support processing the Easement requests for construction and maintenance as well as financial support to complete the project. We will staff a formal request for the financial support of the project through the 452 AMW CC along with an estimated timeline for the project. Current cost sharing is displayed in the below Table.