

CIP Planning And Implementation Presentation

Durham Irrigation District

Board Meeting

June 8, 2023

Meeting #2

Eddy Teasdale/Jacques DeBra



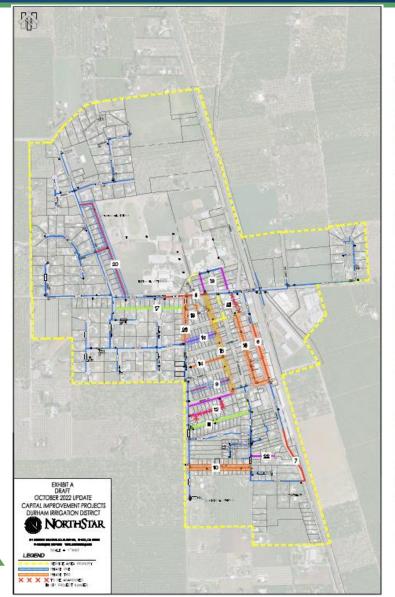
DID Board Meeting – CIP Planning Item

- 1. Discuss Water CIP Plan
- 2. Discuss Implementation Plan funding options
- 3. Implementation Plan funding options
- 4. Next Steps



DID – October 2022 CIP Plan Update

TOTAL OF ALL CAPITAL IMPROVEMENT PROJECTS



CAPITAL IMPROVEMENT PROGRAM PROJECT LIST and PROJECT COSTS



\$ 9,297,300.00

DRAFT - October 2022 Update

Project #	Project Description	P	roject Cost
Infrastru	cture Improvements		
1	Lead Service Pipe Study - PROJECT COMPLETO UNDER USBR GRANT	S	
2	Wharf Hydrant Replacement - 14 Locations District Wide	\$	153,615.00
3	PHASE ONE Isolation Valve Replacement/Installation - District Wide (Completed Separate of Projects Below)(20 Valves)	\$	114,380.00
4	Metering of Flat Rate Services (Approximately 121 Services)	\$	277,695.0
5	Automatic Meter Reading Conversion	\$	155,000.0
6	New 8" Main on Midway - Durham St. to Brown St. (Complete Loop)	\$	318,393.0
7	New 8" Main on Midway - South Loop Connection	\$	247,860.0
8	Durham Dayton Hwy Replace 6" Main with 8" Main	S	242,964.0
9	Alley Between Brown & Faber - Replace 4" Main with 8" Main	\$	213,894.0
10	Serviss St Replace 4" Main with 8" Main	\$	375,538.5
11	Florida Ln Replace 4" Main with 8" Main	\$	367,506.0
12	Brown St Replace 4" Main with 8" Main - Abandon Alley	S	347,157.0
13	Alley Between Midway & Goodspeed - Replace 4" Main with 8" Main	\$	435,897.0
14	Alley Between Campbell & Faber - Replace 4" Main with 8" Main	\$	236,155.5
15	Alley Between Holland & Goodspeed - Replace 6" Main with 8" Main	\$	552,330.0
16	Alley Between Campbell & Durham - Replace 4" Main with 8" Main	\$	176,026.5
17	Abandon Ex. Main in Backyards of Houses South of Durham Dayton - Connect Existing Services to 8" Main in Durham Dayton	\$	53,550.0
18	Alley West of Well #3 & South of Durham Dayton Hwy Replace 2" Main with 8" Main	\$	178,474.5
19	Alley Loop North of Durham Dayton & South DUSD/DPRD - Replace 6" Main with 8" Main (Partially completed by DUSD and DRPD)	\$	246,636.0
20	6" Main on West PL of Durham High School - Replace 6" with 8" in PUSD Easement	\$	519,358.5
21	Goodspeed St Durham Dayton to Durham St, Durham St - Alley to Midway - New 8" Main - Abandon Alley between Durham Dayton and Durham	\$	308,448.0
22	Sakeley Lane - Replace 2" Main with 6" Main	\$	120,487.5
23	Holland Avenue - Replace 2" Main with 8" Main	\$	264,384.0
24	Solar at Holland Well Site	\$	120,000.0
	Infrostructure Improvements Total	\$	6,025,750.0
25	Well Station 3 Upgrades (Building, Filter & Generator)	Ś	399,000.0
		Ś	50,050.0
26	XIO - Cloud Based SCADA Controls & Metering	5	120,000.0
27	Well Station #5 Upgrades	5	10,000.0
28	Well Sonic Water Level Moritoring (2 locations)	5	15,000.0
29	Groundwater Well Assessment (3 locations)	5	2,677,500.0
30	Well Station #5 - 1.0 MG Steel Reservoir with Booster Pump Well Improvements Total		





DID 2022 CIP Plan Priorities

CIP Project Priority	Target	Useful Life	Actual Life
Lead Service Line Study	Field Surveys – SDWA Compliance	40 years	If found, replace with C-900
Hydrant Replacements	24	30 years	50-75 years
Valve Replacements	70	40 years	50-75 years
Meter Installations	141 unmetered flat rate customers	20 years	New meters to be installed
SCADA System	Install XiO System For 3 Wells	20 years	Operational savings
Pipelines	1 mile (5,280 ft.) - failing	50-75 years	50-75 years
Well Rehabs (#3, #4, #5)	Various items (R&R)	30-40 years	> 30 years



DID 2022 CIP Plan Priorities

CIP Project Priority	Phase One Capital Budget	Phase Two Capital Budget	Phase 3 Capital Budget
Valve Replacements	\$114,380	\$0	TBD
Hydrant Replacements	\$0	\$0	TBD
Main Replacements	\$909,279	\$1,946,541.50	TBD
Meter Installations (121)	\$277,695	\$0	TBD
Well Rehabs/SCADA	\$714,050	\$0	TBD
Total	\$2,015,404	\$1,946,542	\$5,335,300

Total capital budget phases 1-3 = \$9.3M over next ten years!



Current Water CIP Funding Needs

- Phase 1 = \$2.015M
 - Water main replacements
 - Valve and meter replacements
 - Well rehab work
- Phase 2 = \$1.946M
 - Water main replacements
- Phase 3 = \$5.34M
 - Water main replacements
 - Well Rehabs
 - AMI Metering System Upgrade
- TOTAL = \$9.3M

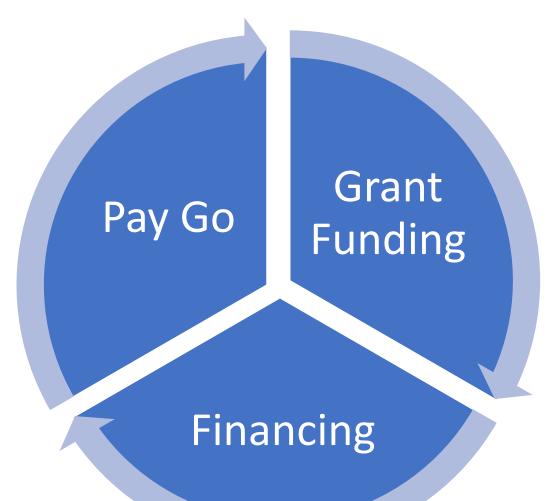
Consider combining phases 1 and 2 for economies of scale benefits from delivering larger projects.

Total Funding Request = \$3.961M (2022 dollars)

CIP funding strategy will drive future water rate policy.



Common Utility – Long Term Funding Strategy



The long-term utility funding strategy will be unique for each utility and be a function of system needs, infrastructure risk, and market timing.

December 9, 2022 Board Meeting:

Review FY22-23 Water CIP Plan Support Cost-Effective CIP Funding Strategy Pursue grants & low interest loans where needed

Needed for phase 1 and 2 CIP priority projects.



DID CIP Implementation Plan – Funding Strategy



Lowest Cost Financing In Rising Interest Rate Environment

- DWSRF has the cheapest financing available (still)
 - Construction Application can fund 100% of project costs (planning/design/construction/administration)
 - 30-Year Term Financing/full loan payments begin 1 year after construction
 - 3-Year Construction Period from Loan Agreement Execution
- Structure Applications based on DWSRF funding criteria and priority
- Application submittal to Funding Agreement execution = 18-24 months
- Categorically Exempt projects a big plus (R&R) CEQA Plus Required
- DWSRF will provide DID with the most CIP budget flexibility



- Finalize DWSRF application funding request
 - Decision on final funding request scope/amount of CIP improvements to include
 - Approval of project cost estimate for final funding request
 - Commitment to 3-Year Construction Period from Loan Agreement Execution
- Approve submittal of DWSRF Construction Application
- Prepare DWSRF Construction Application
- Approve DWSRF authorizing resolution
- Submit DWSRF application to State for processing



- DWSRF Construction Funding Application <<< Preferred Option
 - General Package
 - Financial Package
 - Environmental Package
 - Technical Package
- Environmental approval with Application submittal
 - Categorically Exempt projects a big plus (R&R) CEQA Plus Required
- Technical package requires 90% design and Engineer's Report
- Takes 18-24 months from Application submittal to Funding Agreement execution



	DID Water C DWSRF General Package - Estir					
		Total Project Costs		Requested Financing		Avg. 20-Year CIP
% Total	Cost Classification		Other Financing	rinancing	Comments	Approach
1.75%	A. Facilities Planning-w/funding	\$70,000	\$0	\$70,000	DWSRF Appl/CEQA	\$100,000
13.75%	B. Facilities Design-100%	\$550,000	\$0	\$550,000	Efficient Design	\$785,714
70.00%	C. Construction-Distribution Network	\$2,800,000	\$0	\$2,800,000	1 Large CIP Project	\$4,000,000
3.50%	C. Construction Management	\$140,000	\$0	\$140,000	Streamlined CM	\$200,000
0.00%	D. Value Engineering	\$0	\$0	\$0		\$0
1.00%	E. Administration-funding/reporting	\$40,000	\$0	\$40,000	DWSRF Reporting	\$57,143
10.00%	G. Contingency	\$400,000	\$0	\$400,000	Lower end contingency	\$571,429
0.00%	H. Pre-purchase Materials/Equip.	\$0	\$0	\$0		\$0
0.00%	I. Land and Right-of-Way	\$0	\$0	\$0		\$0
0.00%	J. Other	\$0	\$0	\$0		\$0
100.00%	K. Total Project Costs	\$4,000,000	\$0	\$4,000,000	\$0	\$5,714,286

Includes: Main replacements, well improvements, and meter upgrades.

For DWSRF construction application DID would need to fund the planning and design costs upfront then get reimbursed upon DWSRF funding approval.



						Durham Irrigation District – DWSRF Funding Program														
									ct - Phase 1 and											
						PRO-	JECT IMPLEM	ENTATION S	CHEDULE - Wi											
Water CIP Task (DWSRF Funding)	CY2023				CY2024				CY2025 - 1st Year Construction			CY2026 - 2nd Year Construction					CY2027 - 3rd Ye	ar Constructio	ı <mark>n</mark>	
Water Cir Task (Effort) Tunding)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
DID Water CIP Planning						1														
DID Budget Approval - w/CIP Plan						1														
Project Design/CEQA Approval						ĺ .														
DWSRF Construction Application					Submittal				T											
DWSRF Funding Approval Process									Agr. Execution	'										
Construction - Bid/Award					,	1														
Construction			1	T	†'				1											
Construction Management				T	T	1			T '											
Ongoing Start-up & Testing				Τ	T'	1														
Project Closeout				Τ	T'	1														х
DWSRF Reimbursement Processing				T	T	1			х	х	х	х	х	х	х	Х	х	х	х	х
DWSRF Reporting/Updates					,	1			х	х	x	х	х	х	x	х	x	x	х	x
Project Budget Allocation-\$4.0M					'	1														
DWSRF Project Budget \$4.0M - includes pla	anning, design a	and construction c	osts and assume	s some economie	s of scale for large	r project scale.			<u>'</u>											
DWSRF will reimburse for 100% of DID Pro	iect costs (includ	ding planning, des	ign and construct	tion costs).																
LSCE/DID would prepare 100% design docu	ıments to exped	lite DWSRF Cons	truction Application	on review and appr	roval process; 90%	, design documer	nts required for fun	iding approval.												
Project budget assumes CEQA Mitigated N	eg Dec for entire	e Project; explore	CEQA exemption	n approach due to	the fact that the pro	oject will replace ε	əxisting facilities w	ith the same purp	ose, function and c	apacity.										/

DID DWSRF Construction Application planning and design upfront costs reimbursable upon DWSRF funding approval.



- DWSRF Planning Funding Application <<< Plan B (\$620,000)
 - General Package
 - Financial Package
 - Environmental Package
 - Technical Package
- Environmental approval with Application submittal
 - Categorically Exempt projects a big plus (R&R) CEQA Plus Required
- Technical package requires 90% design and Engineer's Report
- Takes 6-9 months from Application submittal to Funding Agreement execution



For projects who do not have final plans/specs and Environmental documentation completed.

Five-year low interest loan option to fund project planning and design costs only.

Construction application follow.

Board DWSRF Options: Plan A Construction Application vs Plan B Planning Application

DWSRF Funding Option	FY23-24	FY24-25	FY25-26
Planning Application Approach	\$ 20,000	\$0	\$25,000 (for Construction Appl.)
Construction Application Approach	\$620,000	\$0	\$0

Planning Application approach requires <u>two</u> DWSRF Applications however reduces District cash flow budget impacts. Planning Application approach would add <u>two</u> additional years for project completion vs. Construction Application.



Next Steps

- Recommendations:
 - Approve DWSRF as preferred Water CIP funding mechanism
 - Approve DWSRF funding request amount = \$4M (adjust for inflation)
 - Approve scope of projects to fund through DWSRF Phase 1 and 2 projects
 - Approve pursuit of DWSRF Planning or Construction Funding Application in 2023.
 - Update long term water funding strategies for FY23-24 budget process
 - Maintain on-going Board communications regarding progress



DID Board Meeting – Water CIP Planning and Implementation Item

DISCUSSION AND QUESTIONS?

