Reclamation District No. 2042 Bishop Tract 2024 Annual Progress Report For Urban Level of Protection

July 9, 2024

Prepared for:

Reclamation District No. 2042 – Bishop Tract and City of Stockton

> Prepared by: Kjeldsen, Sinnock & Neudeck, Inc.

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Overview

Reclamation District No. 2042 – Bishop Tract (RD 2042) has engaged Kjeldsen, Sinnock and Neudeck, Inc. (KSN) to prepare this document to support the demonstration of "adequate progress" toward the achievement of an Urban Level of Flood Protection (ULOP) within the RD 2042 basin. This document describes the steps that RD 2042 is taking to generate the local funding needed to advance and implement 200-Year levee improvements in accordance with the requirements of Senate Bill 5 (SB5).

RD 2042 is responsible for operating and maintaining the levee system and drainage facilities that provides flood protection for agricultural land, infrastructure, and urban development (comprised of residential and commercial). RD 2042 was formed in 1909, and currently encompasses an area of approximately 3,100 acres, surrounded by 8.0 miles of levee, all located within San Joaquin County. At the time of formation, RD 2042 originally consisted of nearly 2,200 acres. An annexation occurred in 1989 that extended the District's eastern limits to Interstate 5 thereby adding just over 900 acres to RD 2042. Figure 1 shows the RD 2042 levees and boundary.

The levee system of RD 2042 currently provides a 100-year level of protection and is fully accredited by the U.S. Department of Homeland Security, Federal Emergency Management Agency (FEMA) as meeting the minimum certification criteria as outlined in Title 44, CFR, Section 65.10. FEMA maintains Flood Insurance Rate Maps (FIRMs) that delineate special flood hazard areas and assist lending institutions and federal agencies to determine whether flood insurance is required. RD 2042 is currently located on FIRM panel numbers 06077C0285F, 06077C0295F, 06077C0305F, and 06077C0315F.

With the passage of SB5, the State of California has established that a 200-year level of protection shall be the new standard for urban and urbanizing areas. The existing RD 2042 levees currently do not entirely meet the updated Urban Levee Design Criteria (ULDC) standards adopted by the Department of Water Resources. Accordingly, the City of Stockton as the local land use agency, in coordination with RD 2042, approved a 200-year ULOP adequate progress finding within the RD 2042 boundary in 2017. RD 2042 continues to provide annual progress reports to the City of Stockton, including this report.

On behalf of RD 2042, a team of Professional Engineers consisting of Peterson Brustad Inc. (PBI), KSN, and Kleinfelder has conducted an evaluation of the RD 2042 levee system in accordance with ULDC. The goal of the evaluation was to identify any deficiencies and countermeasures needed to comply with the State's 200-year standards and to meet the requirements of making a ULOP finding for RD 2042's levees for the City of Stockton. The purpose of this Annual Progress Report is to address the ULOP requirements for adequate progress:

- 1. Identify the geographic area which will have a ULOP once the improvements are completed.
- 2. Describe the scope, schedule, and cost of completing the flood protection improvements described in the Engineer's Report.
- 3. Identify critical features of the system which are under construction.
- 4. Provide evidence that there are revenues sufficient to fund each year of the project improvements.

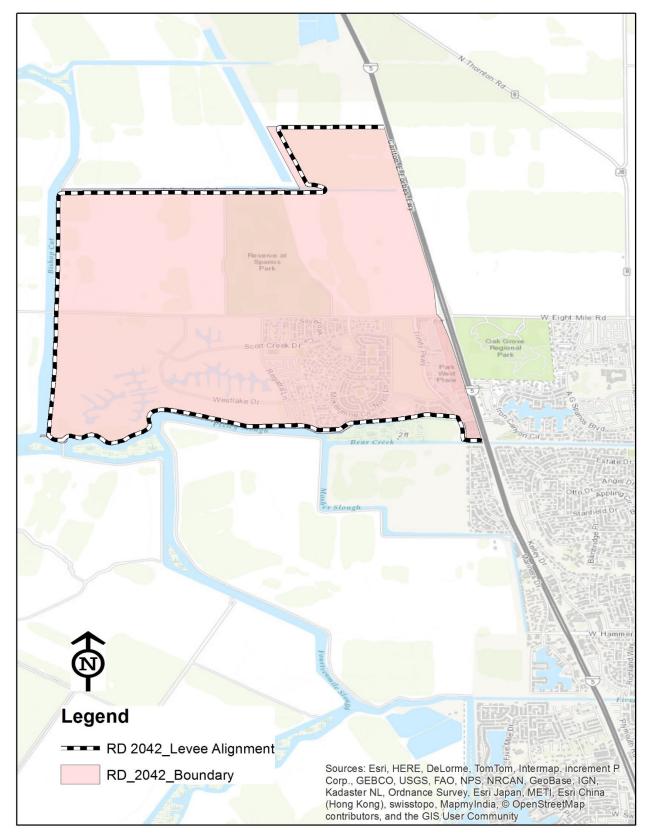


Figure 1 - RD 2042 Levee and Boundary

Project Improvements

In order for the RD 2042 levee system to meet ULDC, improvements are needed to several existing pipe penetrations. Pipe penetration rehabilitation is necessary at various locations, primarily due to deteriorated conditions. The improvements consist of reconstructing pipe penetrations that cross the levee by removing and replacing the portion of pipe through the levee prism and installing a positive closure device (i.e., gate valve). The new pipes will be installed above the Design Water Surface Elevation (DWSE). Conceptual improvement plans are included in Appendix 1. Locations of the pipe penetrations to be rehabilitated are shown on Figure 2 and listed in Table 1.



Figure 2 - Pipe Penetration Rehabilitation Locations

	Pipe Diameter		
Station	(inches)	Туре	Status
N 15+50	16	intake	pending ¹
N 29+02	24	discharge	remaining
N 29+07	24	discharge	remaining
N 117+57	12	intake	completed
N 137+81	16	intake	completed
N 160+73	16	intake	completed
N 177+38	16	intake	underway
N 179+51	24	intake	no work needed ²
N 181+58	16	discharge	completed
N 191+34	16	intake	completed
N 195+72	48	inlet / outlet	underway
S 18+82	12	intake	completed
S 43+01	16	intake	completed
S 83+49	16	intake	completed

Table 1 – Summary of Pipe Penetration Rehabilitations

Project Cost

The total estimated cost associated with the pipe penetration rehabilitations was originally budgeted at \$2,907,000 in 2017 dollars. This cost represents the total cost to obtain full ULDC compliance for the RD 2042 levee system. A summary of this cost is shown below in Table 2. A more detailed breakdown of the project costs is included in Appendix 2.

Table 2 - Original Overall Project Cost (2017\$)

Description		Total Cost (2017\$)
Construction		\$1,730,000
Soft Costs		\$692,000
20% Contingency		\$484,400
	Total:	\$2,907,000

A summary of estimated costs and actual expenditures to date per pipe penetration rehabilitation is shown below in Table 3. An annual inflation escalator of 3% was used to estimate the costs in any given year. As such, the sum of estimated costs as shown in Table 3 is greater than the total shown in Table 2 which is based on 2017 dollars.

¹ After further coordination with the landowner and farming tenant, the pipe penetration at Sta. N 15+50 will ultimately be removed and not replaced. It is currently used to provide irrigation water for agricultural uses. It will be phased out over the next several years at which time it will be removed.

² Further investigation of the pipe penetration at Sta. N 179+51 has revealed that the pipe is newer and in much better condition that originally assessed. Therefore, no work is required for this pipe.

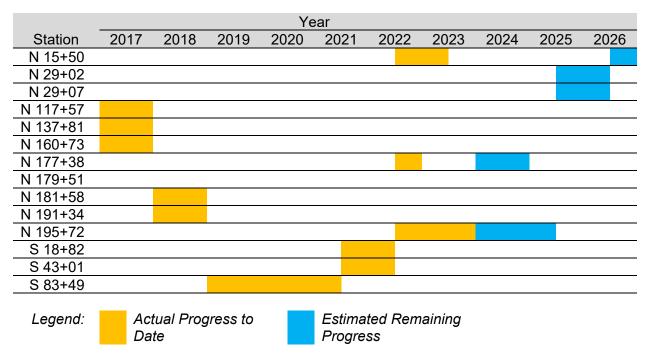
Station	Estimated Year	Estimated Cost	Actual Cost
N 15+50	2026	\$187,000	
N 29+02	2025-2026	\$323,500	
N 29+07	2025-2026	\$323,500	
N 117+57	2017	\$117,600	\$6,846
N 137+81	2017	\$161,300	\$54,941
N 160+73	2017	\$161,300	\$33,655
N 177+38	2024	\$187,000	
N 179+51	n/a	\$279,100	\$0
N 181+58	2018	\$166,200	\$46,732
N 191+34	2018	\$166,200	\$58,555
N 195+72	2023-2025	\$641,500	
S 18+82	2021-2022	\$132,400	\$534,803
S 43+01	2021-2022	\$181,600	\$229,201
S 83+49	2019-2020	\$176,300	\$215,896

Table 3 – Summary of Estimated Costs and Actual Project Expenditures

Project Schedule

It was originally anticipated that approximately two pipes would be rehabilitated each year over a seven-year time period. Currently, all rehabilitation work is expected to be completed by the end of 2026. Coordination efforts with the Reserve golf course will begin shortly for the pipe at Station N 177+38. Initial engineering, environmental compliance, and permitting are currently underway for the pipe at Station N 195+72. A project schedule is shown below in Table 4.

Table 4 - Project Schedule



Project Funding

RD 2042 is the sole funding entity for the ULDC improvements. A current draft statement of net position that indicates balances for all RD 2042 funds is included in Appendix 3. As of June 30, 2024, there is a balance of \$99,022 in the contingency fund, \$2,288,493 in the maintenance and operations fund, and \$776,164 in the ULDC fund.

As the sole funding entity, RD 2042 is responsible for funding the improvements. The primary source of revenue for RD 2042 is from the existing assessment district which generates approximately \$500,000 per year. Other sources of income generate approximately \$200,000 per year. A copy of this year's RD 2042 draft budget is included in Appendix 4. In order to fund the improvements, RD 2042 created a ULDC fund at the beginning of the project. RD 2042 will generally transfer funds from the contingency fund and the maintenance and operations fund as well as reallocate a portion of excess budget funds previously directed to the contingency fund. For fiscal year 2024/2025, this translates to using approximately \$161,755 in excess budget funds to fund the eighth year of ULDC improvements in addition to the available, existing ULDC funds.

A cash flow analysis that demonstrates a feasible solution for implementation of the needed 200-year ULDC improvements is shown below in Table 5. Table 5 conservatively assumes that the ULDC fund will be funded each year from excess budget funds with the balance coming from the maintenance and operations fund and emergency contingency fund. It is expected that this table will be refined over time as the planning and development of the project progress over time.

Table 5 - Cash Flow Analysis

Description	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Beginning Balance	\$0	\$404,548	\$351,410	\$386,621	\$389,517	\$279,767	\$746,584	\$776,164	\$769,280	\$2,143
Revenues:										
Excess Budget Funds	\$0	\$52,149	\$52,148	\$130,641	(\$3,135)	\$241,296	\$55,806	\$161,755	\$130,000	\$130,000
Transfer from Contingency Fund	\$500,000	\$0	\$0	\$0	\$0	\$742,000	\$0	\$0	\$0	\$0
Transfer from Maintenance & Operations Fund	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$204,096
Total Revenues	\$500,000	\$52,149	\$52,148	\$130,641	(\$3,135)	\$1,233,296	\$55,806	\$161,755	\$130,000	\$334,096
Expenditures:										
ULDC Improvements	\$95,452	\$105,287	\$16,937	\$127,745	\$106,615	\$766,479	\$26,226	\$168,639	\$897,136	\$336,239
Total Expenditures	\$95,452	\$105,287	\$16,937	\$127,745	\$106,615	\$766,479	\$26,226	\$168,639	\$897,136	\$336,239
Ending Balance	\$404,548	\$351,410	\$386,621	\$389,517	\$279,767	\$746,584	\$776,164	\$769,280	\$2,143	\$0

ATTACHMENT D

Reclamation District No. 2042

2024 Annual Progress Report

Appendix 1

Conceptual Improvement Plans

RECLAMATION DISTRICT NO. 2042

BISHOP TRACT

STOCKTON, CALIFORNIA

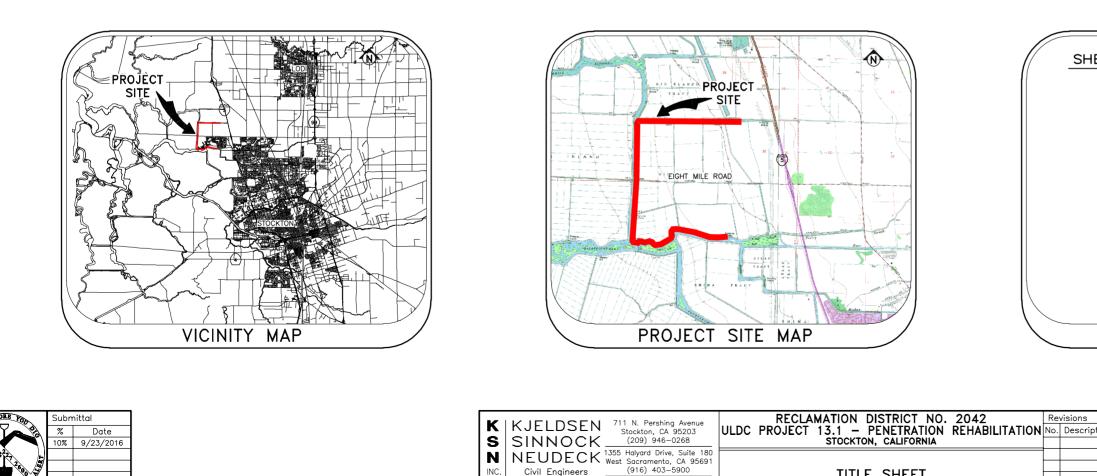
URBAN LEVEE DESIGN CRITERIA, PROJECT NO. 13.1

PENETRATION REHABILITATION

AT

TITLE SHEET

VARIOUS LOCATIONS



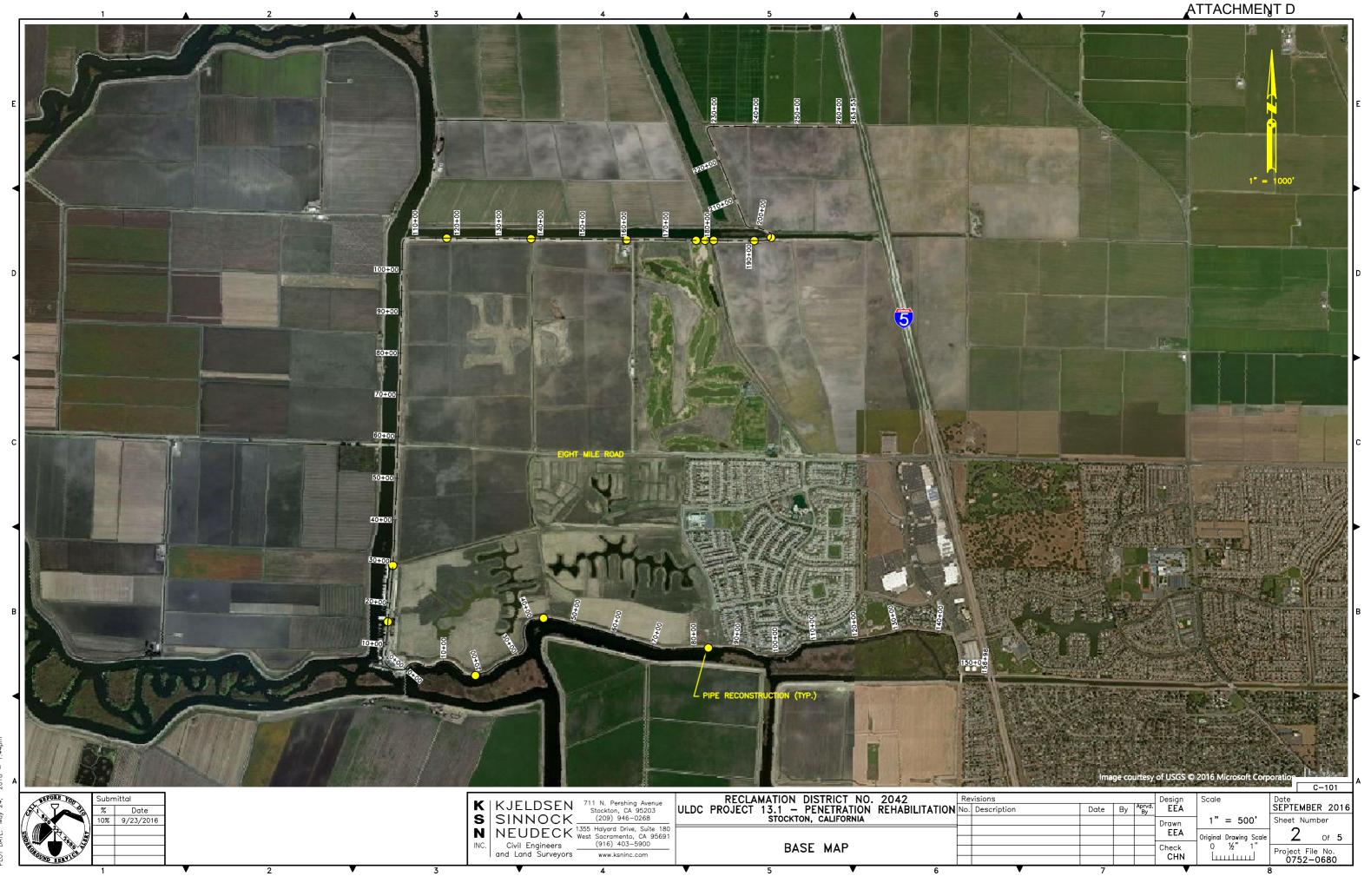
Civil Engineers

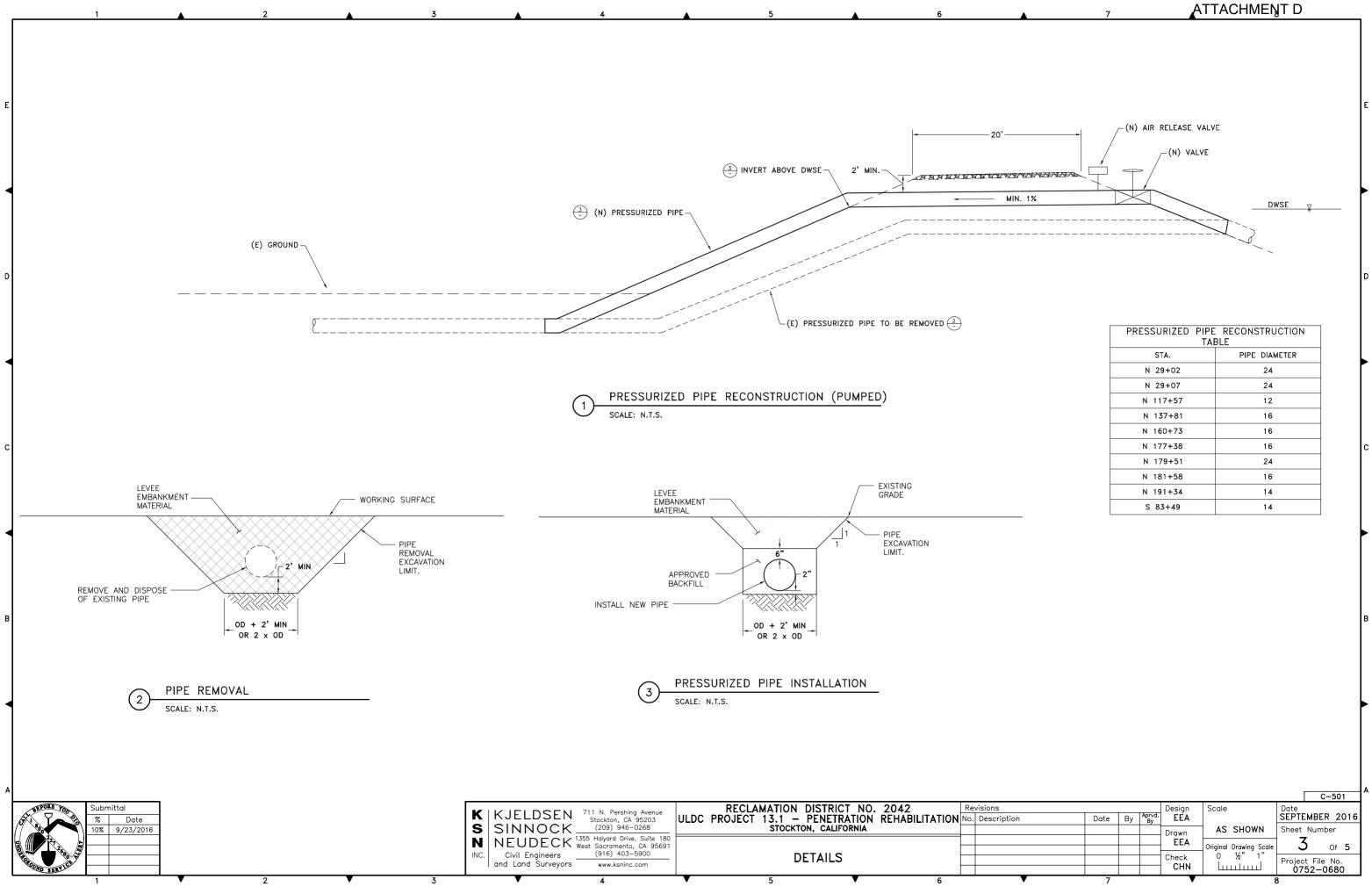
and Land Surveyors

www.ksninc.com

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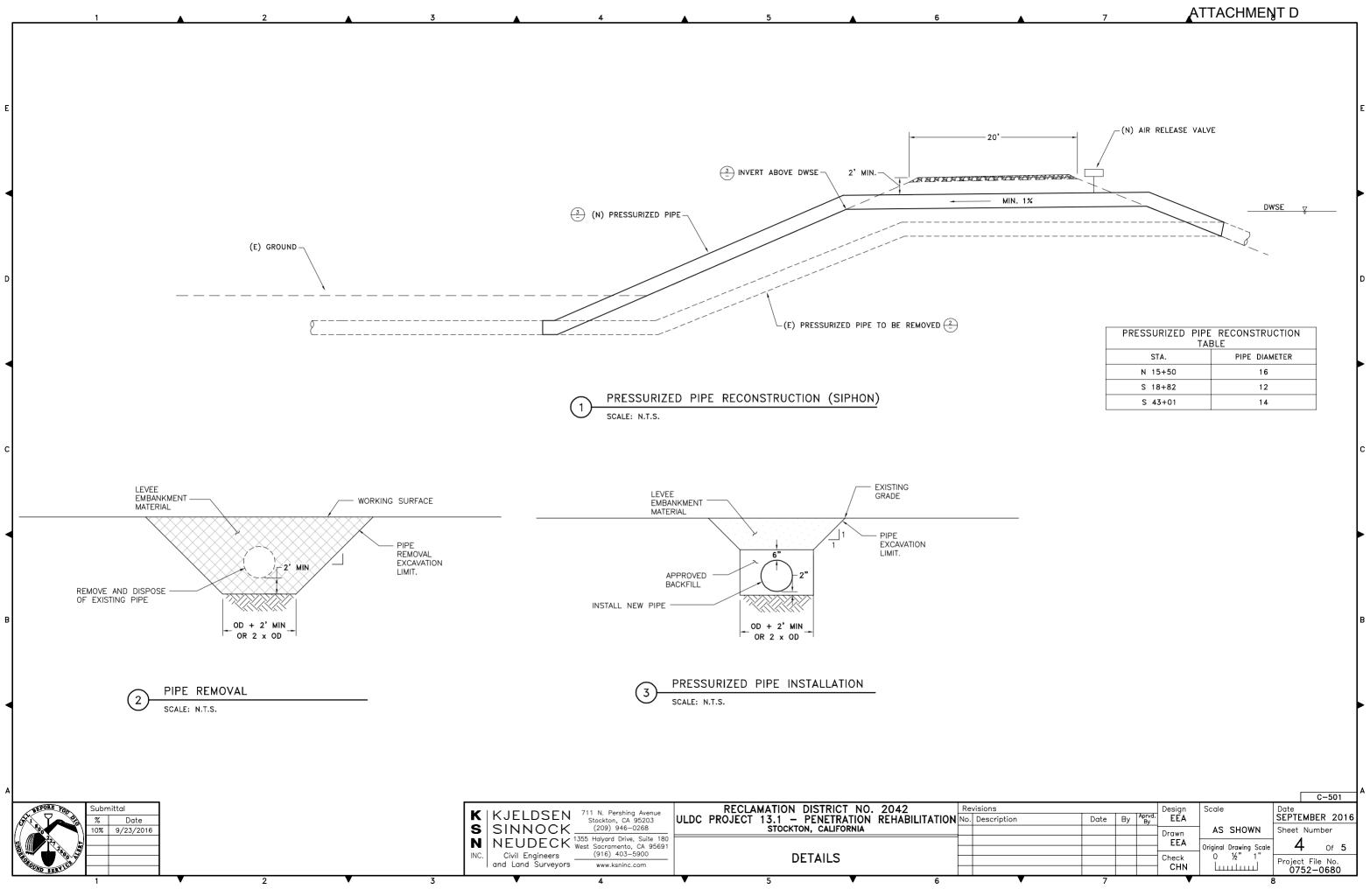




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	RECONSTRUCTION
STA.	PIPE DIAMETER
N 29+02	24
N 29+07	24
N 117+57	12
N 137+81	16
N 160+73	16
N 177+38	16
N 179+51	24
N 181+58	16
N 191+34	14
S 83+49	14

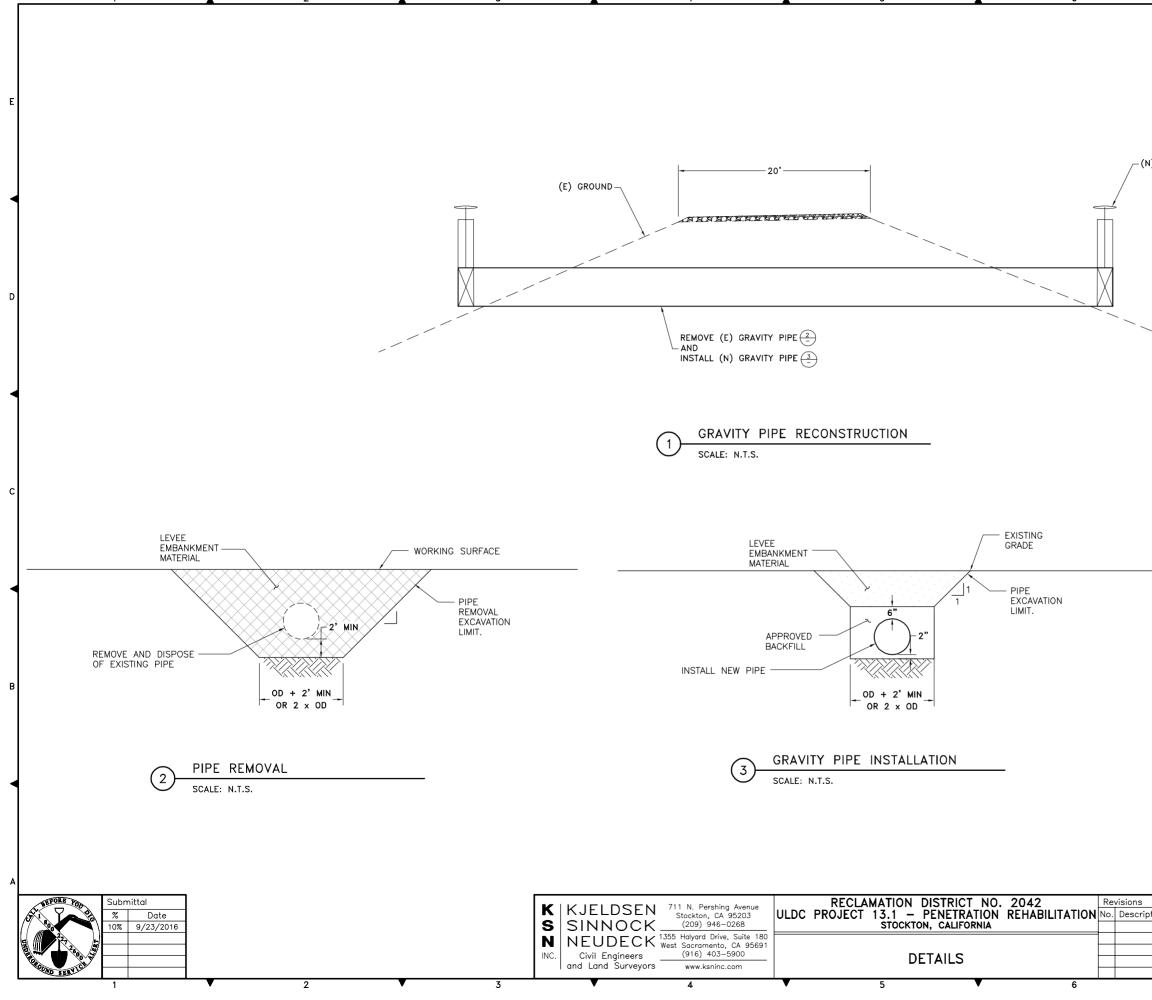
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	RECONSTRUCTION
STA.	PIPE DIAMETER
N 15+50	16
S 18+82	12
S 43+01	14

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-(N) CANAL GATE / FLAP GATE (TYP.)

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GRAVITY PIPE RECO	INSTRUCTION TABLE			
STA.	PIPE DIAMETER			
N 195+72	48			

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Reclamation District No. 2042

2024 Annual Progress Report

Appendix 2 Detailed Cost Estimate

RECLAMATION DISTRICT NO. 2042 - BISHOP TRACT ULDC EVALUATION STOCKTON, CALIFORNIA

OPINION OF PROBABLE COSTS DETAILS OF PROPOSED IMPROVEMENTS

ltem	Description	Quantity	Unit	Unit Cost	Total Cost
PENE	DJECT NO. 13.1 ETRATION REHABILITATION				
Cons	truction				
1.	Mobilization			3%	\$49,000
2.	Erosion Control			3%	\$49,000
3.	Reconstruct Existing 12" Pipe	2	EA	\$60,000	\$120,000
4.	Reconstruct Existing 16" Pipe	8	EA	\$80,000	\$640,000
5.	Reconstruct Existing 24" Pipe	3	EA	\$125,000	\$375,000
6.	Reconstruct Existing 48" Pipe	1	EA	\$200,000	\$200,000
7.	Air Release Valve	13	EA	\$2,000	\$26,000
8.	12" Valve	2	EA	\$4,000	\$8,000
9.	16" Valve	8	EA	\$8,500	\$68,000
10.	24" Valve	3	EA	\$25,000	\$75,000
11.	48" Valve	2	EA	\$60,000	\$120,000
				Subtotal:	\$1,730,000
Mana	gement / Environmental / Engineering				

wang	gement / Environmental / Engineering		
1.	Administration	5%	\$86,500
2.	Planning	3%	\$51,900
3.	Environmental and Permitting	5%	\$86,500
4.	Geotechnical Engineering	2%	\$34,600
5.	Surveying and Civil Engineering	10%	\$173,000
6.	Construction Management and Inspection	12%	\$207,600
7.	Mitigation	3%	\$51,900
		Subtotal:	\$640,100

SUBTOTAL:	\$2,422,000
CONTINGENCY (20%):	\$484,400
PROJECT TOTAL:	\$2,907,000

Reclamation District No. 2042

2024 Annual Progress Report

Appendix 3

Draft Statement of Net Position (as of June 30, 2024)

Reclamation District No. 2042 Statement of Net Position As of June 30, 2024

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, -	
	Jun 30, 24
ASSETS	
Current Assets	
Checking/Savings	
1000 · Unrestricted Cash	00 704 50
1000-00 · Bank of Stockton - Checking	80,731.59
1010-00 · Bank of Stockton - Savings	49,246.82
1030-00 · SJC General Fd 53501	538,430.04
1035-00 · SJC Emerg. Contingency Fd 53511	,
1045-00 · SJC Maintenance & Ops. Fd 53594	
1050-00 · SJC Urban Levee Design Fd 53596	
Total 1000 · Unrestricted Cash	3,832,087.52
1050 · Restricted Cash	
1020-00 · US Bank-205248000 (Mello-Roos)	0.11
1022-00 · US Bank-205248002 (Mello-Roos)	408,878.76
1040-00 · SJC Direct Assmt Fd 53575 (MR)	812,019.47
Total 1050 · Restricted Cash	1,220,898.34
Total Checking/Savings	5,052,985.86
Accounts Receivable	\mathbf{O}
1100 · Accounts Receivable	5,918.13
Total Accounts Receivable	5,918.13
Other Current Assets	
1300 · Prepaid Insurance	30,942.00
Total Other Current Assets	30,942.00
Total Current Assets	5,089,845.99
Fixed Assets	
1070-00 · Capital Assets	9,164,641.00
1080-00 · Accumulated Depreciation	-3,746,978.00
Total Fixed Assets	5,417,663.00
	10,507,508.99
LIABILITIES & NET POSITION	
Current Liabilities	
Accounts Payable	11 000 01
2000-00 · Accounts Payable Total Accounts Payable	14,688.64
Total Accounts Payable	14,688.64
Other Current Liabilities	15.00
2200-00 · Payroll Liabilities	15.00
2210-00 · Accrued Payroll Lilabilities	2,353.30
2300-00 · Accrued Expenses	9,500.00
2300-10 · Interest Payable	33,725.68
2500-00 · Mello-Roos Bonds Payable	2,422,101.00
Total Other Current Liabilities	2,467,694.98
Total Current Liabilities	2,482,383.62
Total Liabilities	2,482,383.62
Net Position	
3000-00 · Opening Balance Net Position	5,371,200.19
3010-00 · Net Position	2,167,070.81
	486,854.37
Change in Net Position	400,004.07
Change in Net Position Total Net Position TOTAL LIABILITIES & NET POSITION	8,025,125.37 10,507,508.99

Reclamation District No. 2042

2024 Annual Progress Report

Appendix 4 Draft Budget (2024/2025)

Reclamation District No. 2042 Budget July 2024 through June 2025

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Working Draft Co	py #1
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	General Administrative	Mello-Roos	TOTAL
	Jul '24 - Jun 25	Jul '24 - Jun 25	Jul '24 - Jun 25
Revenue			
4000-00 · Property Assessments	542,705.00	0.00	542,705.00
4005-00 · Mello-Roos Assessments (County)	0.00	420,000.00	420,000.00
4025-00 · State Assistance - Subventions	150,000.00	0.00	150,000.00
4050-00 · Interest Income			
4050-05 · Interest Income - Bank Accounts	25.00	0.00	25.00
4050-10 · Interest Income - SJC Funds	50,000.00	10,000.00	60,000.00
4050-15 · Interest Income - Bond Funds	0.00	25.00	25.00
Total 4050-00 · Interest Income	50,025.00	10,025.00	60,050.00
Total Revenue	742,730.00	430,025.00	1,172,755.00
Expense			
6020-00 · Dues & Subscriptions	675.00	0.00	675.00
6025-00 · Engineering	100,000.00	0.00	100,000.00
6050-00 · Insurance			
6050-05 · Insurance - General	45,000.00	0.00	45,000.00
6050-10 · Insurance - Workers Comp.	10,000.00	0.00	10,000.00
Total 6050-00 · Insurance	55,000.00	0.00	55,000.00
6055-00 · Interest Expense	0.00	96,000.00	96,000.00
6060-00 · Legal & Accounting			
6060-05 · Legal	20,000.00	0.00	20,000.00
6060-10 · Accounting - General	20,000.00	0.00	20,000.00
6060-12 · Accounting - Mello-Roos	0.00	5,000.00	5,000.00
6060-20 · Audit Fees	9,500.00	0.00	9,500.00
6060-30 · SJ County Accounting Charges	5,500.00	5,000.00	10,500.0
Total 6060-00 · Legal & Accounting	55,000.00	10,000.00	65,000.00
6065-00 · Levee Maintenance			
6065-01 · Rock Slope Protection	25,000.00	0.00	25,000.00
6065-02 · Vegetation Control	35,000.00	0.00	35,000.00
6065-03 · Herbicide Control	15,000.00	0.00	15,000.00
6065-04 · Storm Damage Rill Repair	50,000.00	0.00	50,000.00
6065-05 · All Weather Road	25,000.00	0.00	25,000.00
6065-06 · Rodent Control	25,000.00	0.00	25,000.00
6065-07 · Encroachment/Debris	25,000.00	0.00	25,000.00
6065-08 · Toe Ditch Cleaning	50,000.00	0.00	50,000.00
6065-09 · Gate Repairs	10,000.00	0.00	10,000.00
Total 6065-00 · Levee Maintenance	260,000.00	0.00	260,000.00
6075-00 · Mello-Roos Administration	0.00	12,000.00	12,000.00
6081-00 · ULDC Expenses	200,300.00	0.00	200,300.00
6085-00 · Office Expense	500.00	0.00	500.00
6090-00 · Oil & Gas	250.00	0.00	250.00
6095-00 · Payroll Expenses	40,000.00	0.00	40,000.00
6100-00 · Permits, License & Other Fees	2,000.00	0.00	2,000.00
6110-00 · Property Taxes	1,550.00	0.00	1,550.00
6115-00 · Repairs & Maintenance	,		,
6115-10 · Repairs & Maint - Pumps	25,000.00	0.00	25,000.00
Total 6115-00 · Repairs & Maintenance	25,000.00	0.00	25,000.00
6122-00 · Storage	500.00	0.00	500.00
6130-00 · Tools & Supplies	500.00	0.00	500.00
6135-00 · Utilities	40,000.00	0.00	40,000.00
6200-00 · Debt Service - Principal	40,000.00	305,827.00	305,827.0
Total Expense	781,275.00	423,827.00	1,205,102.0
nge in Net Position	-38,545.00	6,198.00	-32,347.0
-			
-Cash Items:			
		0.00	77,028.00