RESOLUTION AUTHORIZING THE PREPARATION AND APPROVAL OF 2021 ADEQUATE PROGRESS REPORT DELTA FARMS RECLAMATION DISTRICT NO. 2042 BISHOP TRACT FOR URBAN LEVEL OF FLOOD PROTECTION (ULOP)

WHEREAS, State of California Senate Bill 5 has determined that a 200-year level of protection shall be the new standard for urban and urbanizing areas to achieve Urban Level of Flood Protection (ULOP); and,

WHEREAS, this Reclamation District is desirous of achieving said 200-year level of protection for Urban Level of Flood Protection (ULOP); and,

WHEREAS, the Reclamation District's Engineers have conducted an evaluation of its levee system to identify the work needed to comply with the Urban Levee Design Criteria (ULDC); and,

WHEREAS, the City of Stockton has requested the District prepare annually an Adequate Progress Report for Urban Level of Protection (ULOP)to demonstrate the steps RD 2042 is taking to secure adequate funding to implement the levee improvements necessary to achieve 200 Year Urban Levee of Flood Protection; and,

WHEREAS, the Reclamation District's Engineers, under the direction of the Board of Trustees, have prepared a 2021 Adequate Progress Report indicating work to be performed and the funding sources for said work through 2024.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Board of Trustees of Delta Farms Reclamation District No. 2042 – Bishop Tract, as follows:

- 1. That that certain 2021 Adequate Progress Report prepared by the District Engineers on behalf of this Reclamation District is hereby approved.
- 2. That the officers of the District, the Chairman, and/or the Secretary, be, and either of them individually are, hereby authorized and directed to approve on behalf of this Reclamation District, the said 2021 Adequate Progress Report and any and all other agreements, addenda or other documents associated with the said 2021 Adequate Progress Report.

CERTIFICATE

1. KAREN GARRETT. Chairman of the Board of Trustees of Delta Farms Reclamation District No. 2042. do hereby certify that the foregoing Resolution is a full, true and correct copy of a Resolution passed by the Board of Trustees of Delta Farms Reclamation District No. 2042 at a meeting thereof held on the 14th day of July. 2021, at which meeting a quorum was present: that said Resolution has never been revoked, and the same is now in full force and effect.

DATED: August 13, 2021

CHAIRMAN OF THE BOARD OF TRUSTEES OF DELTA FARMS RECLAMATION DISTRICT NO. 2042

Reclamation District No. 2042 Bishop Tract 2021 Annual Progress Report For Urban Level of Protection

August 13, 2021

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 meet the updated Urban Levee Design Criteria (ULDC) standards adopted by the Department of Water Resources, and the existing levees are not currently certified to provide 200-year protection. Accordingly, the City of Stockton as the local land use agency, in coordination with RD 2042, are jointly pursuing efforts to achieve ULOP within the RD 2042 boundary.

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 requirements:

- 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.

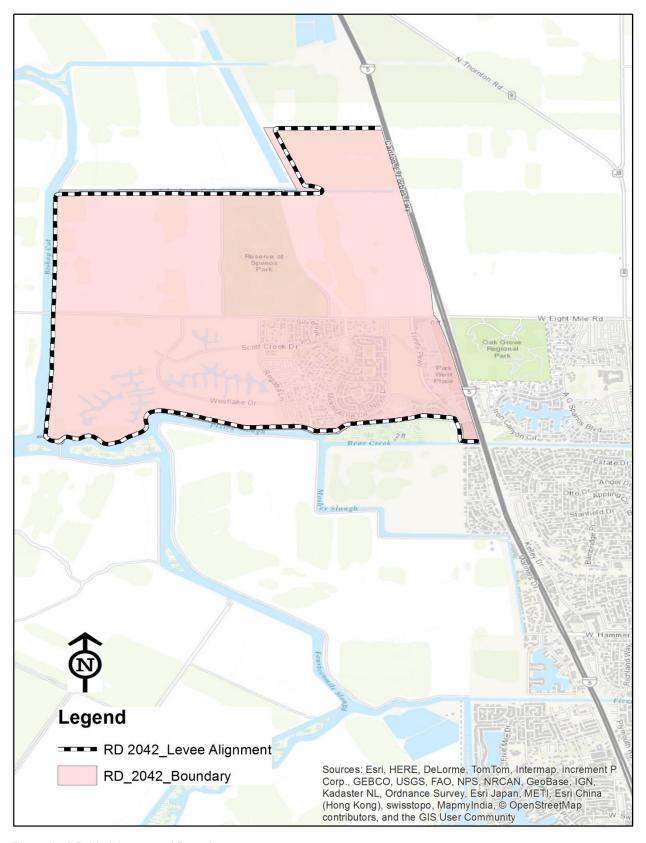


Figure 1 - RD 2042 Levee and Boundary

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

Table 1 - Pipe Penetration Rehabilitations

	Pipe Diameter	Progress Status		
Station	(inches)	Start Date	End Date	
N 15+50	16			
N 29+02	24			
N 29+07	24			
N 117+57	12	June 2017	December 2017	
N 137+81	16	June 2017	December 2017	
N 160+73	16	June 2017	December 2017	
N 177+38	16			
N 179+51	24	no wor	k needed ¹	
N 181+58	16	July 2018	November 2018	
N 191+34	16	July 2018	November 2018	
N 195+72	48	May 2021	in progress	
S 18+82	12	May 2021	in progress	
S 43+01	16	May 2021	in progress	
S 83+49	16	May 2019	in progress	

As shown in Table 1, work to rehabilitate the pipes at Station N 195+72, Station S 18+82, Station S 43+01, and Station S 83+49 is currently underway and is expected to be completed by the end of 2021.

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 - Summary of Project Costs

Description		Total Cost (2017\$)
Construction		\$1,730,000
Soft Costs		\$692,000
20% Contingency		\$484,400
	Total:	\$2.907.000

Project Schedule

It is anticipated that approximately two pipes will be rehabilitated each year over a seven-year time period. An estimated schedule of rehabilitation work is shown below in Table 3. An annual inflation escalator of 3% was used to determine the total cost in any given year as shown in Table 3. As noted above, work on the pipe at Station S 83+49 began in 2019. In the latter part of 2019, right-of-way considerations developed that needed to be addressed at this location. At that time, work on the pipe at Station S 83+49 was postponed and separated into two phases. Phase 1 consisted of the planning, surveying, and initial engineering and was completed in

¹ Further investigation of the pipe penetration at Station 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.

2019. Work resumed in 2020 with Phase 2 consisting of the final engineering and construction. Phase 2 is expected to be completed by the end of summer 2021.

Table 3 - Estimated Project Schedule

Year	Pipe Penetration	Estimated Cost	Actual Cost
2017	N 117+57, N 137+81, N 160+73	\$440,000	\$95,452
2018	N 181+58, N 191+34	\$332,100	\$105,287
2019	S 83+49 (Phase 1)	\$17,000	\$16,937
2020	S 83+49 (Phase 2)	\$159,300	\$127,745
2021	N 195+72, S 18+82, S 43+01	\$1,045,700	
2022	N 29+02, N 29+07	\$373,800	
2023	N 15+50, N 177+38	\$646,600	

Project Funding

RD 2042 is the sole funding entity for the ULDC improvements. A current statement of net position that indicates balances for all RD 2042 funds is included in Appendix 3. As of June 30, 2021, there is a balance of \$1,290,164 in the contingency fund and \$386,621 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 \$450,000 per year. Other sources of income generate another \$180,000 per year. A copy of this year's RD 2042 budget is included in Appendix 4. In order to fund the improvements, RD 2042 has created a ULDC fund. RD 2042 will continue to transfer funds from the contingency fund as well as reallocate a portion of excess budget funds previously directed to the contingency fund. For fiscal year 2021/2022, this translates to transferring approximately \$400,000 from the contingency fund to fund the fifth 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 4. Table 4 conservatively assumes that the ULDC fund will be funded at \$250,000 per year from excess budget funds with the balance coming from the 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 4 - Cash Flow Analysis

Description	2017	2018	2019	2020	2021	2022	2023
Beginning Balance	\$0	\$404,548	\$351,410	\$386,621	\$389,517	\$3,817	\$5,017
Revenues:							
Excess Budget Funds	\$0	\$52,149	\$52,148	\$130,641	\$260,000	\$250,000	\$250,000
Transfer from Contingency Fund	\$500,000	\$0	\$0	\$0	\$400,000	\$125,000	\$391,583
Total Revenues	\$500,000	\$52,149	\$52,148	\$130,641	\$660,000	\$375,000	\$641,583
Expenditures:							
ULDC Improvements	\$95,452	\$105,287	\$16,937	\$127,745	\$1,045,700	\$373,800	\$646,600
Total Expenditures	\$95,452	\$105,287	\$16,937	\$127,745	\$1,045,700	\$373,800	\$646,600
Ending Balance	\$404,548	\$351,410	\$386,621	\$389,517	\$3,817	\$5,017	\$0

Reclamation District No. 2042 2021 Annual Progress Report

Appendix 1
Conceptual Improvement Plans

RECLAMATION DISTRICT NO. 2042

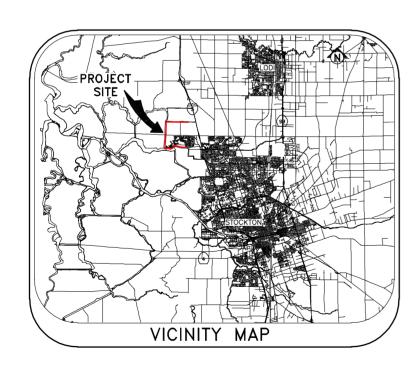
BISHOP TRACT

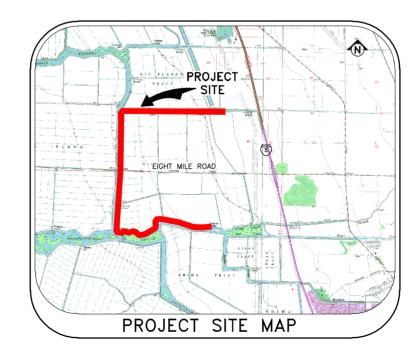
STOCKTON, CALIFORNIA

URBAN LEVEE DESIGN CRITERIA, PROJECT NO. 13.1

PENETRATION REHABILITATION

VARIOUS LOCATIONS





SHEET NO.	DESCRIPTION	//
1	TITLE SHEET	
2	BASE MAP	
3-5	DETAILS	
		}
		/
	LEET WIDEN	//
SF	IEET INDEX	
	1 2 3–5	1 TITLE SHEET 2 BASE MAP

BEFORE FOR	Submittal		
	%	Date	
	10%	9/23/2016	
227			
Who are VI			

K | KJELDSEN 711 N. Pershing Avenue Stockton, CA 95203 (209) 946-0268 S SINNOCK_ NEUDECK 1355 Halyard Drive, Suite 180
NEUDECK West Sacramento, CA 95691
INC. Civil Engineers (916) 403-5900 Civil Engineers

RECLAMATION DISTRICT NO. 2042

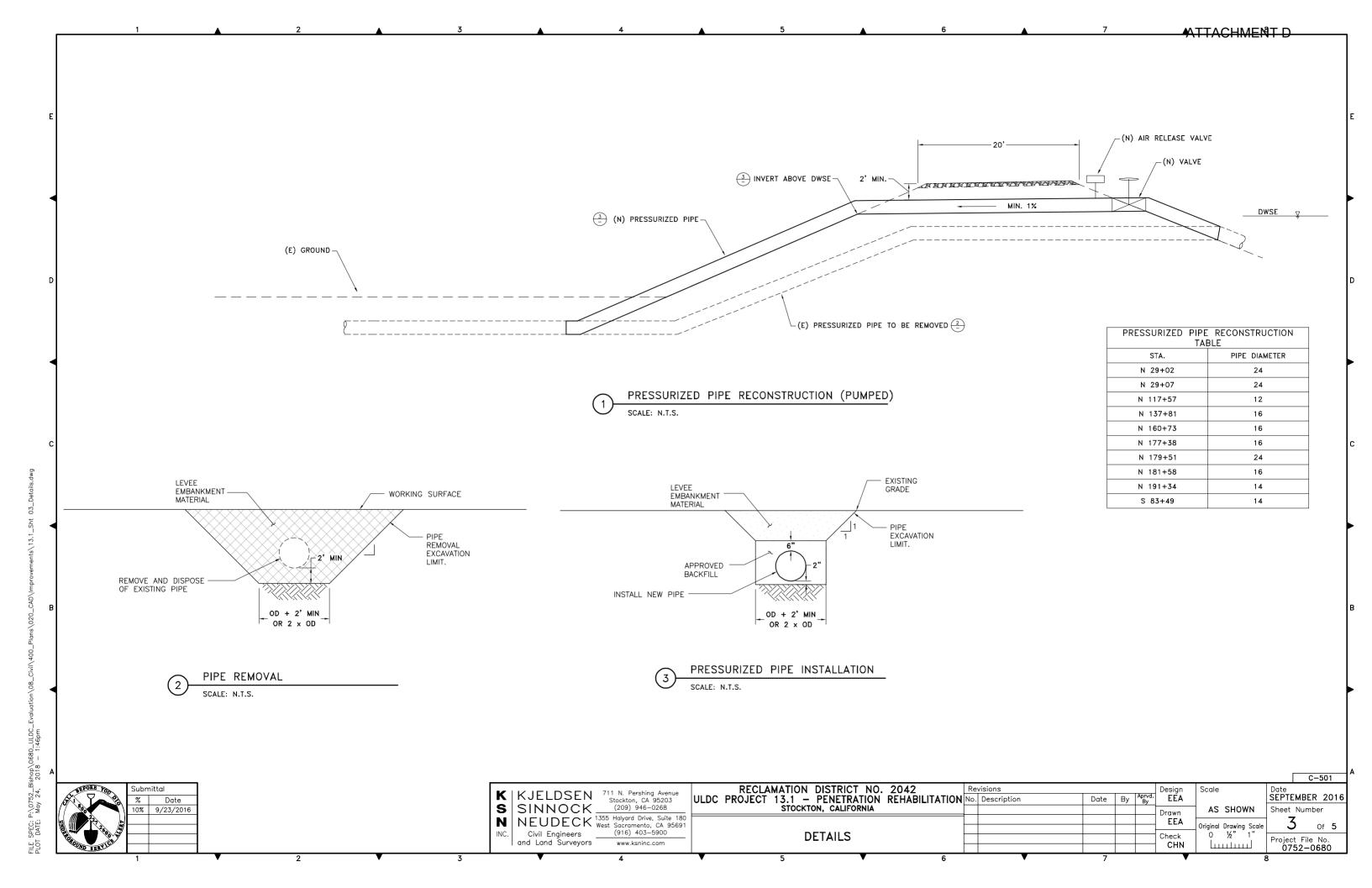
ULDC PROJECT 13.1 — PENETRATION REHABILITATION
STOCKTON, CALIFORNIA

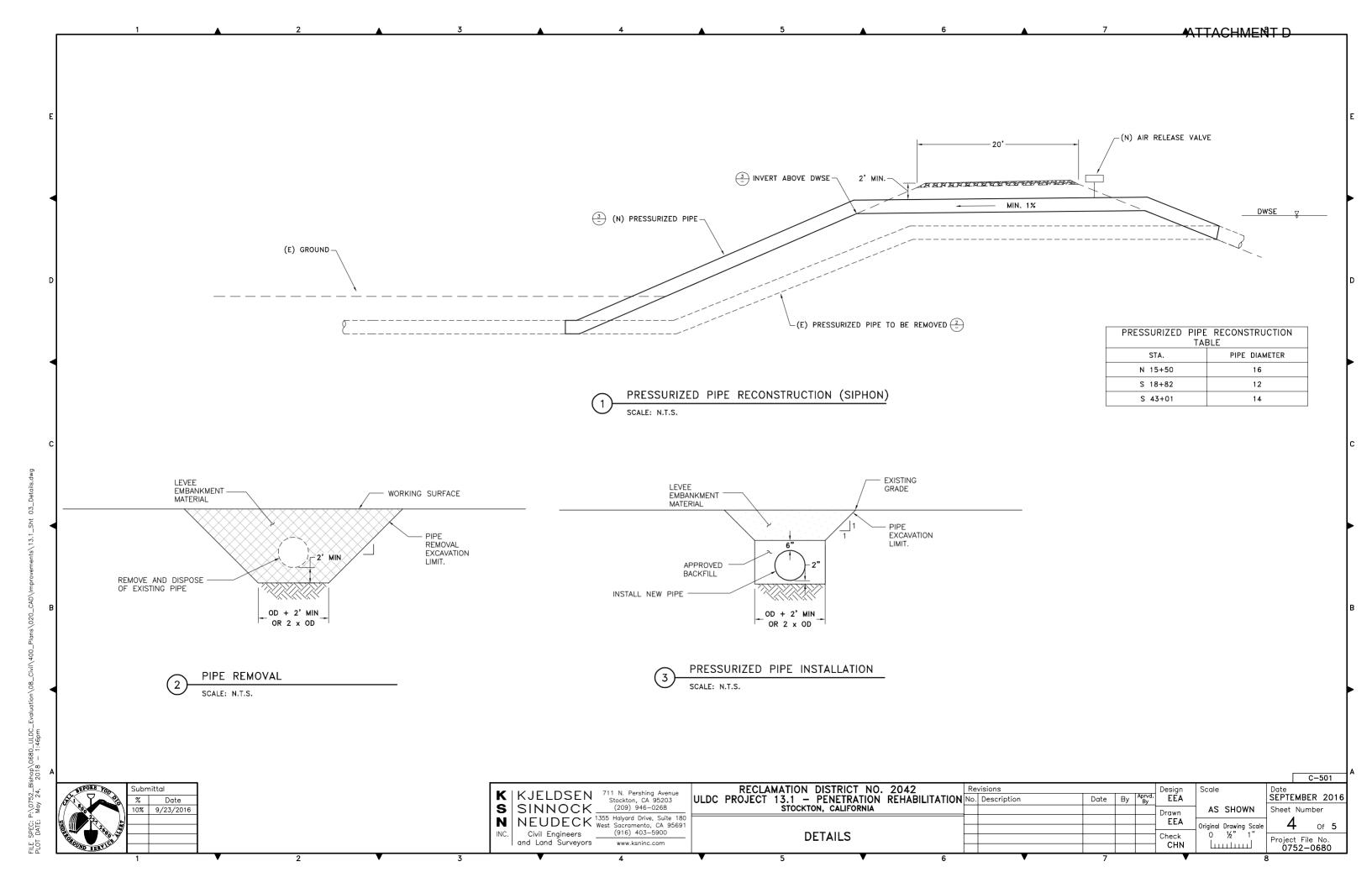
Revisions
No. Description TITLE SHEET

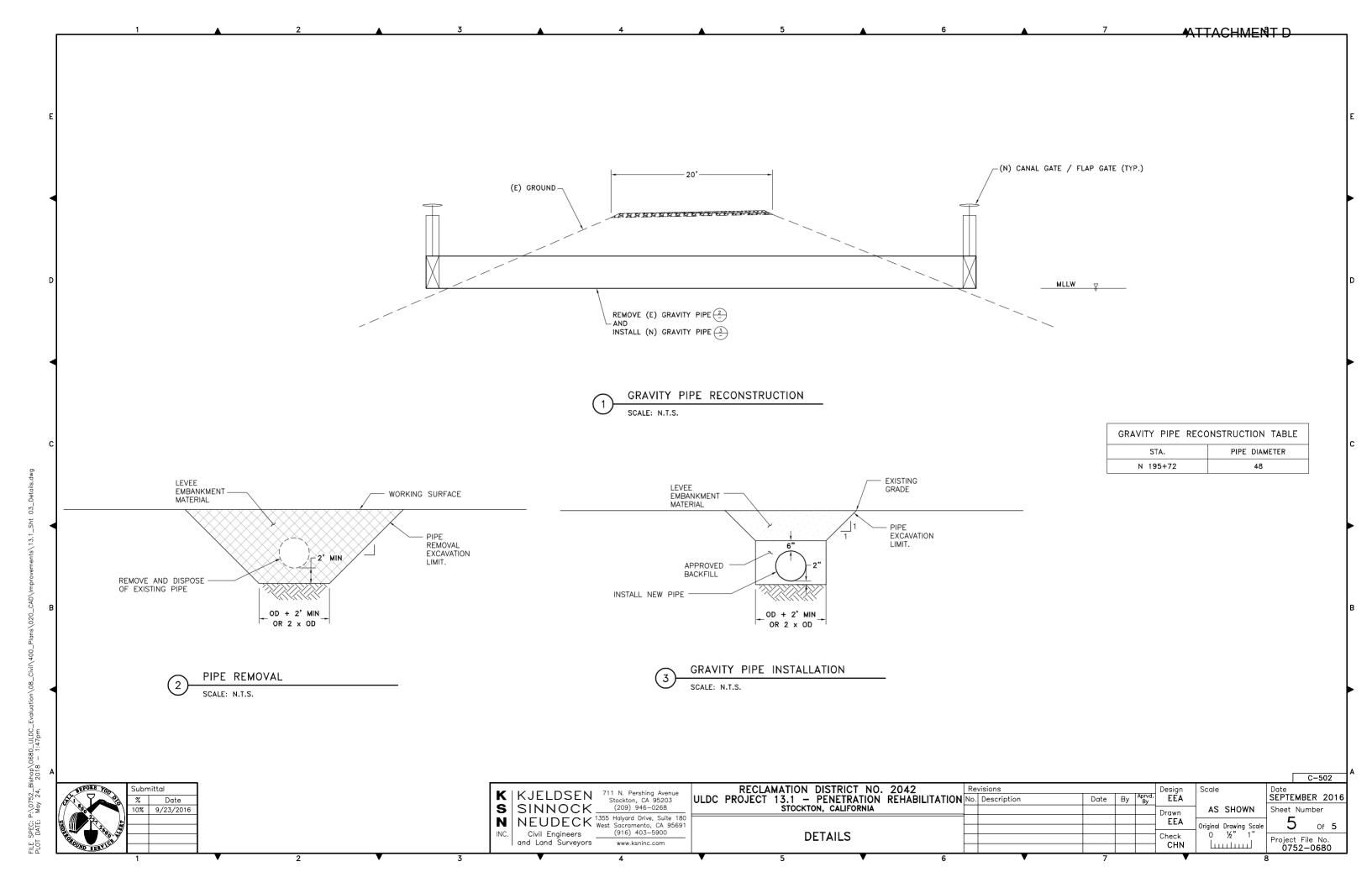
Design **EEA** Date SEPTEMBER 2016 AS SHOWN EEA Check

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Reclamation District No. 2042 2021 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

Item Description	Quantity	Unit Unit	Cost Total Cost
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PROJECT NO. 13.1 PENETRATION 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

Man	Mangement / 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
CONTIN	NGENCY (20%):	\$484,400
PROJ	ECT TOTAL:	\$2,907,000

Reclamation District No. 2042 2021 Annual Progress Report

Appendix 3
Statement of Net Position
(as of June 30, 2021)

Reclamation District No. 2042 Statement of Net Position

As of June 30, 2021

	Jun 30, 21
ASSETS	
Current Assets	
Checking/Savings	
1000 · Unrestricted Cash	
1000-00 · Bank of Stockton - Checking	37,983.87
1010-00 · Bank of Stockton - Savings	44,180.62
1030-00 · SJC General Fd 53501	229,481.10
1035-00 · SJC Emerg. Contingency Fd 53511	1,299,830.00
1045-00 · SJC Maintenance & Ops. Fd 53594	1,219,260.17
1050-00 · SJC Urban Levee Design Fd 53596	389,517.14
Total 1000 · Unrestricted Cash	3,220,252.90
1050 · Restricted Cash	
1020-00 · US Bank-205248000 (Mello-Roos)	114.31
1022-00 · US Bank-205248002 (Mello-Roos)	555,432.85
1040-00 · SJC Direct Assmt Fd 53575 (MR)	986,077.89
Total 1050 · Restricted Cash	1,541,625.05
Total Checking/Savings	4,761,877.95
Total Current Assets	4,761,877.95
Fixed Assets	
1070-00 · Capital Assets	9,170,515.04
1080-00 · Accumulated Depreciation	-3,516,001.00
Total Fixed Assets	5,654,514.04
TOTAL ASSETS	10,416,391.99
LIABILITIES & NET POSITION	
Liabilities	
Current Liabilities	
Other Current Liabilities	
2500-00 · Mello-Roos Bonds Payable	4,443,138.00
Total Other Current Liabilities	4,443,138.00
Total Current Liabilities	4,443,138.00
Total Liabilities	4,443,138.00
Net Position	
3000-00 · Opening Balance Net Position	5,371,200.19
3010-00 · Net Position	565,022.33
Change in Net Position	37,031.47
Total Net Position	5,973,253.99
TOTAL LIABILITIES & NET POSITION	10,416,391.99

Reclamation District No. 2042 2021 Annual Progress Report

> Appendix 4 Budget (2021/2022)

Reclamation District No. 2042 Budget July 1, 2021 through June 30, 2022

	General	Mello-Roos	Total
Revenues			
4000-00 · Property Assessments	450,000.00	0.00	450,000.00
4005-00 · Mello-Roos Assessments (County)	0.00	580,000.00	580,000.00
4025-00 · State Assistance - Subventions FY 19/20	160,264.00	0.00	160,264.00
4025-00 · State Assistance - Subventions FY 20/21	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	26,000.00	6,000.00	32,000.00
4050-15 · Interest Income - Bond Funds	0.00	30.00	30.00
Total 4050-00 · Interest Income	26,025.00	6,030.00	32,055.00
4060-00 · Other Revenues	1,500.00	0.00	1,500.00
Total Revenues	787,789.00	586,030.00	1,373,819.00
Expenditures			
6020-00 · Dues & Subscriptions	550.00	0.00	550.00
6025-00 · Engineering	100,000.00	0.00	100,000.00
6050-00 · Insurance			
6050-05 · Insurance - General 4/1/21-4/1/22	22,100.00	0.00	22,100.00
6050-05 · Insurance - General 4/1/22-4/1/23	23,000.00	0.00	23,000.00
6050-10 · Insurance - Workers Comp.	11,500.00	0.00	11,500.00
Total 6050-00 · Insurance	56,600.00	0.00	56,600.00
6055-00 · Interest Expense	0.00	178,905.00	178,905.00
6060-00 · Legal & Accounting		,	,
6060-05 · Legal	15,000.00	0.00	15,000.00
6060-10 · Accounting	20,000.00	2,000.00	22,000.00
6060-12 · Accounting - Mello-Roos	0.00	3,300.00	3,300.00
6060-20 · Audit Fees	6,100.00	0.00	6,100.00
6060-30 · SJC Accounting Charges	3,400.00	3,000.00	6,400.00
Total 6060-00 · Legal & Accounting	44,500.00	8,300.00	52,800.00
6065-00 · Levee Maintenance	44,300.00	0,300.00	32,000.00
	25,000,00	0.00	25,000,00
6065-01 · Rock Slope Protection	25,000.00		25,000.00
6065-02 · Vegetation Control	25,000.00	0.00	25,000.00
6065-03 · Herbicide	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 · Encroachments/Debris	25,000.00	0.00	25,000.00
6065-08 · Toe Ditch Maintenance	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	250,000.00	0.00	250,000.00
6075-00 · Mello-Roos Administration	0.00	8,800.00	8,800.00
6080-00 · Miscellaneous	2,000.00	0.00	2,000.00
6081-00 · ULDC Expenses	1,045,700.00	0.00	1,045,700.00
6085-00 · Office Expense	1,000.00	0.00	1,000.00
6095-00 · Payroll Expenses	30,000.00	0.00	30,000.00
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-Pumps	25,000.00	0.00	25,000.00
6135-00 · Utilities	15,000.00	0.00	15,000.00
6200-00 · Debt Service Principal	0.00	367,006.00	367,006.00
Total Expenditures	1,573,900.00	563,011.00	2,136,911.00
inge in Net Position	-786,111.00	23,019.00	-763,092.00