

# Papillion Creek and Tributaries Lakes, Nebraska

**General Reevaluation Report** 

# **Appendix E. Cost Engineering**



**June 2021** 

Omaha District
Northwestern Division
Cost & General Engineering Branch
Engineering Division



#### I. OVERVIEW OF APPENDIX

This cost appendix provides a summary explanation of the project assumptions and other cost related aspects of the project. Greater detail on many project topics can be found in the other technical appendices.

#### II. CONTRACT ACQUISITION

The contract acquisition strategy for the levee raise and floodwall construction on Little Papillion Creek and the nonstructural measures throughout the basin is anticipated to be small business. The contract acquisition strategy for Dam Site 10 and Dam Site 19 is anticipated to be full and open due to the technical requirements involved with constructing a dam.

#### III. COST METHODOLOGY

#### A. General

This Fully Funded Estimate (FFE) has been prepared to October 2020 price levels. The costs are considered to be fair and reasonable to a well-equipped and capable contractor and include overhead and profit. The preparation of this estimate was created in accordance with "ER 1110-1-1300 – Cost Engineering Policy and General Requirements, (26 March 1993)" and "ER 1110-2-1302 – Civil Works Cost Engineering, (revised 30 June 2016)". The Fully Funded Estimate (FFE) was completed in accordance with "EM 1110-2-1304 – Civil Works Construction Cost Index System (CWCCIS), (revised 31 March 2019)".

The estimate was developed using Micro Computer Aided Cost Estimate System (MCACES) MII v4.4.2 cost estimating software. Applicable crews and equipment were applied in the estimate to correspond with the work being performed. Material prices were developed using the MII Cost Book, R.S. Means references, and quotes obtained from suppliers.

#### **B.** Direct Cost

Direct costs are based on the anticipated material, equipment, and labor needed to construct the project based on the current scope of work. Material quotes were obtained for the major cost items. Direct costs were calculated independent of the contractor assigned to perform the work. Contractor assignments were determined after the formulation of the direct costs.

#### 1. Labor-Rate Determination

Labor rates are based on 2020 Omaha R.S. Means labor database with data from *RS Means Labor Rates for the Construction Industry 2020* book. Rates were checked to ensure they met or exceeded the minimum Davis-Bacon rates.

#### 2. Equipment Rates

All equipment costs are from MII Equipment Region 5, 2018 and MII English Cost Book 2016.

#### 3. Fuel Rates

Rates have been updated as of October 2020. Current fuel prices are updated prices from the Omaha, NE area. It comes from <a href="http://www.neo.ne.gov">http://www.neo.ne.gov</a> which includes: Regular gas, Midgrade, Premium and Diesel Fuel.

#### 4. Material Costs

Material costs are from MII English Cost Book 2016. A budgetary quote for closure structures was obtained from FloodBreak in August 2020.

#### 5. Sales Tax

Local taxes are applied to the project.

#### 6. Productivity

An average productivity factor for the estimate of 85% was used.

#### C. Indirect Costs

#### 1. Prime Contractor

#### a. Job Office Overhead (JOOH)

Overhead rates for JOOH were applied as a running percentage. In this case, a value of 10% was applied for the prime contractor and to subcontractor's work. JOOH includes work items such as trailers, utilities, surveying, reports, work plans and traffic control.

#### b. Home Office Overhead (HOOH)

Overhead rates for HOOH were applied as a running percentage. In this case, a value of 8% was applied for the prime contractor and on subcontractor's work. HOOH includes such items as office rental/ownership costs, utilities, office equipment ownership/maintenance, office staff (managers, accountants, clerical, etc.), insurance, and miscellaneous costs. In reality, the range of home office overhead can be quite broad and depends largely on the contractor's annual volume of work and the type of work that is generally performed by the contractor.

#### c. Field Office Overhead (FOOH)

Overhead rates for FOOH were applied as a direct percentage. In this case, a value of 6% was applied for the prime contractor and on subcontractor's work. FOOH primarily covers mobilization and demobilization costs.

#### d. Profit

Profit has been included as a percentage based on the Profit Weighted Guidelines for the prime contractor.

#### e. Bond

Bond was calculated off the Class A-1 bond table.

#### f. Excise Tax

No excise tax was included.

#### g. Sub-Contractor

#### 1) Job Office Overhead (JOOH)

Overhead rates for JOOH were applied as a running percentage. In this case, a value of 10% was applied for the sub-contractor.

#### 2) Home Office Overhead (HOOH)

Overhead rates for HOOH were applied as a running percentage. In this case, a value of 8% was applied for the sub-contractor.

#### 3) Profit

Profit has been included as a percentage. In this case, a value of 7% was applied for the sub-contractor.

#### D. Other Assumptions

#### 1. Mobilization

Equipment needs were identified from work items in the MII estimate. Equipment was assumed to be mobilized within 50 miles of the project. Costs are covered under the contractor's field office overhead markup.

#### 2. Government Furnished Materials

The estimate is based on no government furnished materials.

#### 3. Weather Inefficiency

At this phase of design, there are no weather inefficiency markups/delays expected due projected weather delay impacts.

#### 4. Site Access

On-site haul roads will have to be constructed and maintained. No cost is included in the estimates for the maintenance and repair of local or county roads.

#### 5. Waste Disposal

No waste will be hauled off-site except construction debris from the office. Assumed that contractor will dispose of office waste with waste at his home office.

#### 6. Material Factors

The placing of topsoil is to be with minimum compaction so it is assumed the imported bank cubic yards is equal to the final in-place cubic yards including any loss factor, so that BCY = CCY/ECY. One of the limitations of the MII estimating software is cannot use CCY in the proper context so ECY or Embankment CY was developed so that ECY is the same as CCY which is the unit of measure normally used in earthwork projects.

The following material factors were applied to various materials in this estimate.

Topsoil: ECY = BCY BCY (1.2) = LCY

Random Fill: LCY (1.25) = ECY

#### IV. TOTAL PROJECT COST

The following project markups are added to the construction costs to determine the rough order of magnitude of what the total project cost will be from start of design to completed project.

#### A. Escalation

Escalation rates have been applied using the Total Project Cost Summary (TPCS) form. Midpoints for design and construction vary for each feature and are summarized in the project schedule. Durations for the design portion of the project are based on level of effort required for each feature. Durations for the construction portion of the project are based on durations calculated using MII.

#### **B.** Contingencies

An initial Cost and Schedule Risk Analysis (CSRA) was conducted 12 May 2020. The CSRA was last updated in March 2021 with updated costs and risks. The results from the updated CSRA produced a contingency of 31%. Contingency for real estate is calculated separately from the CSRA.

#### C. (WBS 30) Planning, Engineering, and Design (PED)

The work covered under this account includes the project management, engineering, and design costs spent to date as well as the remaining estimated costs that will be associated with the engineering and design for this project. For this phase of design, a PED cost of 10% of the construction costs is assumed.

#### D. (WBS 31) Construction Management

The work covered under this account includes the expected costs for contract supervision, contract and construction administration, technical management activities, district office supervision, and administration costs. For this type of construction, an S&A cost of 8% of the construction costs is assumed.

# V. CURRENT WORKING ESTIMATES

Little Papillion Creek Levee Raise/Floodwall

	Contract Cost (\$)	Contingency (\$)	Project Cost (\$)
Lands & Damages	11,650,215	2,330,043	13,980,258
Mitigation	15,687	4,863	20,550
<b>Construction Costs</b>	20,568,253	6,376,158	26,944,411
Planning, Engineering, and Design	2,058,394	638,102	2,696,496
<b>Construction Management</b>	1,646,715	510,482	2,157,197

## **Dam Site 19 with Reservoir**

	Contract Cost (\$)	Contingency (\$)	<b>Project Cost (\$)</b>
Lands & Damages	4,966,263	993,253	5,959,516
Mitigation	244,622	75,833	320,455
<b>Construction Costs</b>	12,697,337	3,936,174	16,633,511
Planning, Engineering, and Design	1,294,196	401,201	1,695,397
<b>Construction Management</b>	1,035,357	320,961	1,356,318

Dam Site 10 – Dry Dam

	Contract Cost (\$)	Contingency (\$)	Project Cost (\$)
Lands & Damages	5,846,453	1,169,291	7,015,744
Mitigation	26,075	8,083	34,158
<b>Construction Costs</b>	8,679,148	2,690,536	11,369,684
Planning, Engineering, and Design	870,522	269,862	1,140,384
<b>Construction Management</b>	696,418	215,890	912,308

#### Nonstructural

	Contract Cost (\$)	Contingency (\$)	Project Cost (\$)
Big Papillion Creek	18,517,120	5,740,307	24,257,427
Papillion Creek	516,146	160,005	676,151
Saddle Creek	2,973,677	921,840	3,895,517
South Papillion Creek	2,987,569	926,146	3,913,715
West Papillion Creek	2,104,900	652,519	2,757,419
Planning, Engineering, and Design	2,709,941	840,082	3,550,023
<b>Construction Management</b>	2,167,953	672,065	2,840,018

## VI. PREVIOUS ESTIMATES

Estimates were created for the tentatively selected plan (TSP). After the TSP was determined, an optimization was performed. These previously created estimates are presented at the end of the Cost Appendix with the optimization estimates listed first and the TSP estimates at the end.

#### \*\*\*\* TOTAL PROJECT COST SUMMARY \*\*\*\*

PROJECT: Papillion Creek General Reevaluation Report

PROJECT NO: P2 445371 LOCATION: Omaha, NE

This Estimate reflects the scope and schedule in report;

Final Feasibility Report and Environmental Assessment

DISTRICT: Omaha District PREPARED: 7/9/2021
POC: CHIEF, COST ENGINEERING, Tracy Wolz

Civil	Works Work Breakdown Structure	ESTIMATED COST					PROJECT FIRST COST (Constant Dollar Basis)					TOTAL PROJECT COST (FULLY FUNDED)			
								gram Year (I ective Price	Budget EC): Level Date:	2021 1 OCT 20					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Spent Thru:	TOTAL FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER A	Feature & Sub-Feature Description  B	(\$K) C	(\$K) D		(\$K) <b>F</b>	(%) <b>G</b>	(\$K) <i>H</i>	(\$K)/	(\$K) J	(\$K)_	(\$K) K	(%)	(\$K) <b>M</b>	(\$K) <b>N</b>	(\$K) O
02	RELOCATIONS	\$28,484	\$8,830	31.0%	\$37,314	0.0%	\$28,484	\$8,830	\$37,314	\$0	\$37,314	20.8%	\$34,403	\$10,665	\$45,068
04 06	DAMS FISH & WILDLIFE FACILITIES	\$17,914 \$286	\$5,553 \$89	31.0% 31.0%	\$23,467 \$375	0.0%	\$17,914 \$286	\$5,553 \$89	\$23,467 \$375	\$0 \$0	\$23,467 \$375	14.8% 19.0%	\$20,573 \$341	\$6,378 \$106	\$26,951 \$446
11	LEVEES & FLOODWALLS	\$20.102	\$6.232	31.0%	\$26.334	0.0%	\$200 \$20,102	\$6,232	\$26.334	\$0	\$26,334	19.0%	\$24.003	\$7.441	\$446 \$31.444
14	RECREATION FACILITIES	\$2,544	\$789	31.0%	\$3,333	0.0%	\$2.544	\$789	\$3.333	\$0	\$3.333	17.7%	\$2.994	\$928	\$3,922
	#N/A	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
	#N/A	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	_	\$0	\$0	\$0
	#N/A	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
	CONSTRUCTION ESTIMATE TOTALS:	\$69,331	\$21,492	-	\$90,823	0.0%	\$69,331	\$21,492	\$90,823	\$0	\$90,823	18.7%	\$82,315	\$25,518	\$107,832
01	LANDS AND DAMAGES	\$22,463	\$4,493	20.0%	\$26,956	0.0%	\$22,463	\$4,493	\$26,956	\$0	\$26,956	11.2%	\$24,987	\$4,997	\$29,984
30	PLANNING, ENGINEERING & DESIGN	\$6,933	\$2,149	31.0%	\$9,082	0.0%	\$6,933	\$2,149	\$9,082	\$0	\$9,082	12.0%	\$7,762	\$2,406	\$10,168
31	31 CONSTRUCTION MANAGEMENT		\$1,719	31.0%	\$7,266	0.0%	\$5,546	\$1,719	\$7,266	\$0	\$7,266	24.6%	\$6,908	\$2,142	\$9,050
	PROJECT COST TOTALS:	\$104,273	\$29,854	28.6%	\$134,127		\$104,273	\$29,854	\$134,127	\$0	\$134,127	17.1%	\$121,972	\$35,063	\$157,034

CHIEF, COST ENGINEERING, Tracy Wolz

PROJECT MANAGER, Rachel Shrader

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

CHIEF, CONSTRUCTION, xxx

CHIEF, CONTRACTING,xxx

CHIEF, PM-PB, xxxx

Filename: Papillion Creek TPCS.xlsx CHIEF, DPM, xxx

TPCS

ESTIMATED TOTAL PROJECT COST:

\$157,034

Contingency on Base Estimate	80% Confidence Proj	ect Cost
Base Construction Estimate	\$69,111,187	
Baseline Estimate Cost Contingency Amount ->	\$21,424,468	31%
Baseline Estimate Construction Cost (80% Confidence) ->	\$90.535.655	

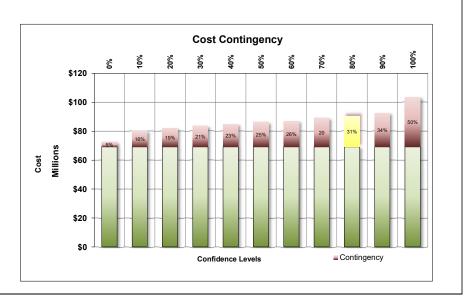
Contingency on Schedule	80% Confidence Project Scho	edule
Project Base Schedule Duration ->	> 39.8 Months	
Schedule Contingency Duration ->	> 10.8 Months 27	%
Project Schedule Duration (80% Confidence) ->	> 50.6 Months	

Papillion Creek GRR

# - PROJECT CONTINGENCY DEVELOPMENT -

# INITIAL CONSTRUCTION Contingency Analysis

Base Case Estimate	\$69,111,187					
(Excluding 01)  Confidence Level						
0%	3,455,559	Contingency 5%				
10%	11,057,790	16%				
20%	13,131,126	19%				
30%	14,513,349	21%				
40%	15,895,573	23%				
50%	17,277,797	25%				
60%	17,968,909	26%				
70%	20,042,244	29%				
80%	21,424,468	31%				
90%	23,497,804	34%				
100%	34,555,594	50%				

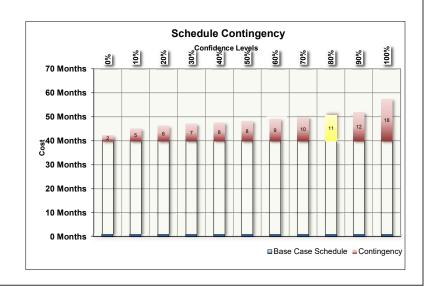


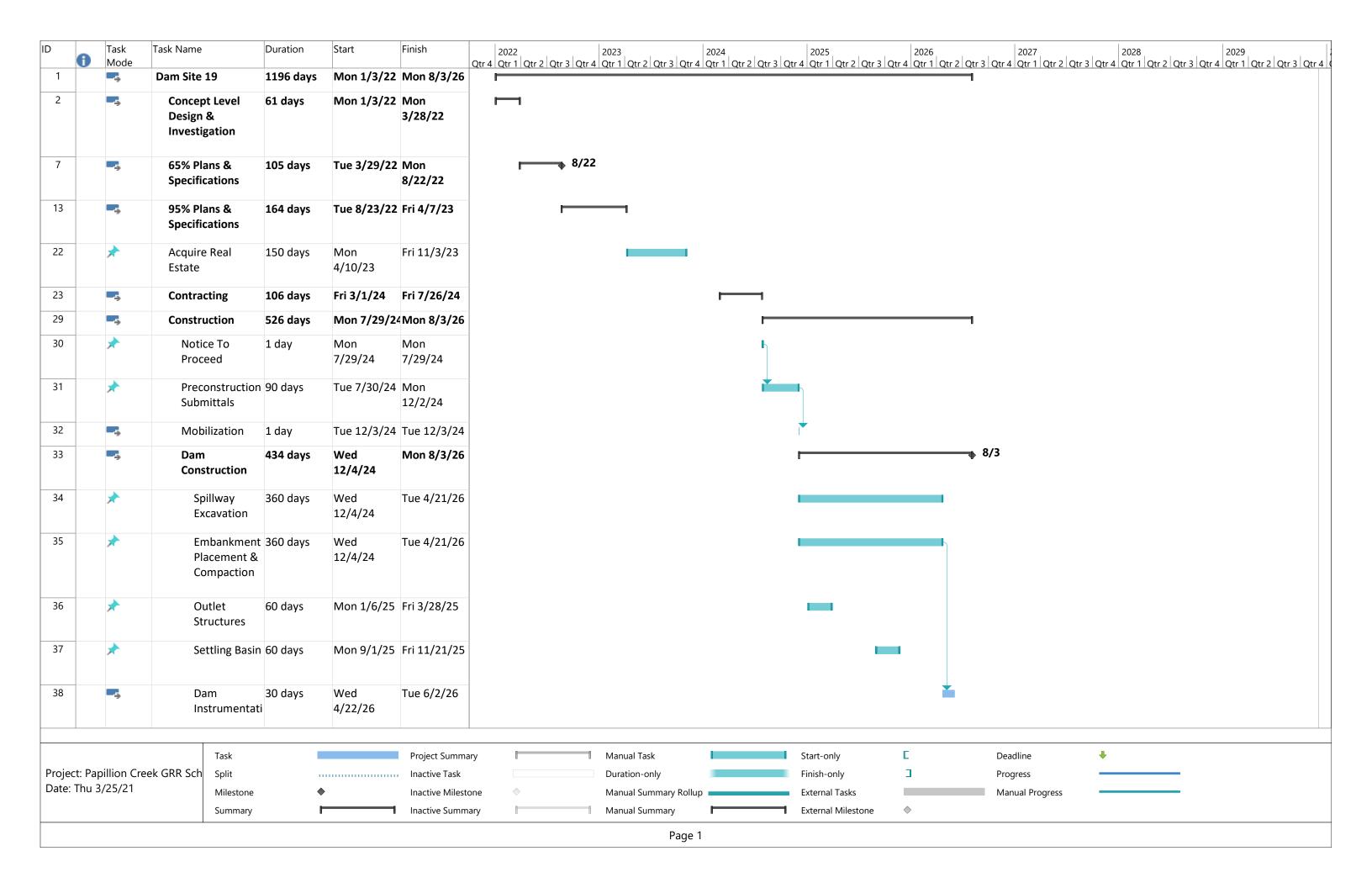
Papillion Creek GRR

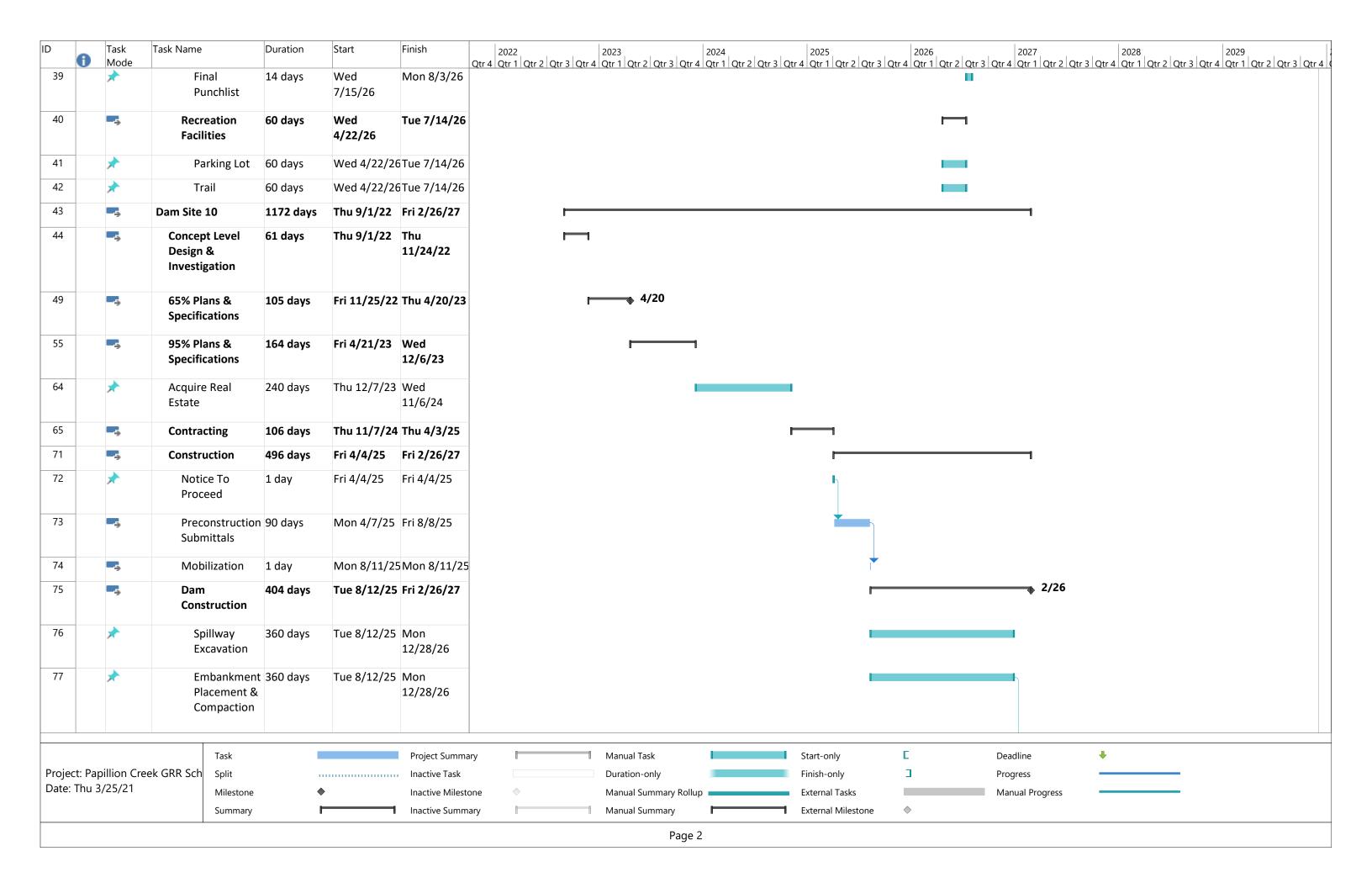
# - SCHEDULE CONTINGENCY (DURATION) DEVELOPMENT -

#### **Contingency Analysis**

Base Case Schedule	39.8 Mont	hs
Confidence Level	Contingency Value	Contingency
0%	2 Months	6%
10%	5 Months	13%
20%	6 Months	16%
30%	7 Months	18%
40%	8 Months	19%
50%	8 Months	21%
60%	9 Months	23%
70%	10 Months	25%
80%	11 Months	27%
90%	12 Months	30%
100%	18 Months	44%







	Task Mode	Task Name		Duration	Start	Finish Qtr 4	2022 Qtr 1   Qtr 2   Qtr 3   Q	2023 tr 4   Qtr 1   Qtr 2   Qtr 3   Qtr 4	2024 Qtr 1   Qtr 2   Qtr 3   Qt	2025 r 4   Qtr 1   Qtr 2   Qtr 3	2026 Qtr 4 Qtr 1 Qtr 2	2027   Qtr 3   Qtr 4   Qtr 1   Qtr 2   Q	2028 Otr 3   Qtr 4   Qtr 1   Qtr 2   Qtr	2029 3   Qtr 4   Qtr 1   Qtr 2   Qtr 3
3	*		tlet uctures	30 days	Mon 10/6/25	Fri 11/14/25	<u> </u>		<u>q</u>				X	
	=5	Da Ins	m trumenta	30 days ti	Tue 12/29/26	Mon 2/8/27								
	=5	Fin Pui	al nchlist	14 days	Tue 2/9/27	Fri 2/26/27								
	-9	Little Papil Raise	lion Leve	e 1235 days		Tue 11/23/27		1					<del></del> 1	
	=5	Concept Design & Investig	<u> </u>	61 days	Wed 3/1/23	Wed 5/24/23								
	-5	65% Pla Specific		105 days	Thu 5/25/23	Wed 10/18/23		10,	/18					
3	-5	95% Pla Specific		164 days	Thu 10/19/23	Tue 6/4/24		-						
2	*	Acquire Estate	Real	180 days	Wed 6/5/24	Tue 2/11/25								
3		Contrac	ting	106 days	Wed 2/12/25	Wed 7/9/25								
04	*	Contr Prepa Packa		14 days	Wed 2/12/25	Mon 3/3/25				III				
05		Solici	ation	60 days	Tue 3/4/25	Mon 5/26/25								
06	-5	Bid O	pening	1 day	Tue 5/27/25	Tue 5/27/25				<b>h</b>				
7		Awar	d Process	30 days	Wed 5/28/25	Tue 7/8/25								
08	-5	Awar	d	1 day	Wed 7/9/25	Wed 7/9/25								
09	-3	Constru	ction	619 days	Thu 7/10/25					_			<b>—</b>	
10	*	Notic Proce		1 day	Thu 7/10/25	Thu 7/10/25				<b>I</b>				
11	=5	Preco Subm		n 90 days	Fri 7/11/25	Thu 11/13/25								
			Task			Project Summary		Manual Task		Start-only	Е	Deadline	•	
-	Papillion Cre	eek GRR Sch	Split			Inactive Task		Duration-only		Finish-only	3	Progress		
ate: T	hu 3/25/21		Milestone	•	<b>♦</b>	Inactive Milestone	$\Diamond$	Manual Summary Rollup		External Tasks		Manual Progress		
			Summary			Inactive Summary		Manual Summary		External Milestone	$\Diamond$			

0	Task Mode	Task Name	Duration	Start	Finish Qtr	2022 2023 2024 2025 2026 2027 2028 2029 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
112		Mobilization	1 day	Fri 11/14/25	Fri 11/14/25	
113	-3	Levee Construction	527 days	Mon 11/17/25	Tue 11/23/27	11/23
14	*	Demo Existing Tra	60 days	Mon 11/17/25	Fri 2/6/26	
15	*	Levee Constructio	120 days	Mon 12/1/25	Fri 5/15/26	
16	*	Floodwall Constructio	420 days	Mon 12/1/25	Fri 7/9/27	
117	*	Order Closure Structures	107 days	Thu 10/1/26	Fri 2/26/27	
118	*	Install Closure Structures	60 days	Mon 3/1/27	Fri 5/21/27	
119	*	Place Ripra and Beddin		Mon 5/24/27	Fri 7/2/27	
20	*	Install New Trail	90 days	Thu 7/1/27	Wed 11/3/27	
21	=5	Final Punchlist	14 days	Thu 11/4/27	Tue 11/23/27	
22	-5	Nonstructural	1894 days	Thu 9/1/22	Tue 12/4/29	
123	-5	Concept Level Design & Investigation	46 days	Thu 9/1/22	Thu 11/3/22	
128	-5	65% Plans & Specifications	75 days	Fri 11/4/22	Thu 2/16/23	2/16
134	-9	95% Plans & Specifications	104 days	Fri 2/17/23	Wed 7/12/23	
143	-9	Contracting	106 days	Fri 3/1/24	Fri 7/26/24	
		Task			Project Summary	Manual Task Start-only ☐ Deadline ♣
-	•	ek GRR Sch Split				Duration-only Finish-only Progress
ate: Th	u 3/25/21	Milestone		<b>♦</b>	Inactive Milestone	Manual Summary Rollup External Tasks Manual Progress
		Summary			Inactive Summary	Manual Summary External Milestone

0	Task Mode	Task Name	Duration	Start	Finish Q	2022 tr 4   Qtr 1   Qtr 2   Qtr 3	2023 3   Qtr 4   Qtr 1   Qtr 2   Qtr	2024 3   Qtr 4   Qtr 1   Qtr 2   Qtr 3   Q	2025 tr 4   Qtr 1   Qtr 2   Qtr 3	2026 Qtr 4   Qtr 1   Qtr 2   0	2027   Qtr 3   Qtr 4   Qtr 1   Qtr 2   Qt	2028 r 3   Qtr 4   Qtr 1   Qtr 2   Qtr	2029 3   Qtr 4   Qtr 1   Qtr 2   Qtr 3   Q
44	*	Contracting Prepare Package	14 days	Fri 3/1/24	Wed 3/20/24								
45		Solicitation	60 days	Thu 3/21/24	Wed 6/12/24								
46		Bid Opening	1 day	Thu 6/13/24	Thu 6/13/24			<b>†</b>					
47		Award Process	30 days	Fri 6/14/24	Thu 7/25/24			<b>*</b>					
48	-5	Award	1 day	Fri 7/26/24	Fri 7/26/24			<b>+</b>					
49		Construction	1397 days	Mon 7/29/2	4Tue 12/4/29								
50	*	Notice To Proceed	1 day	Mon 7/29/24	Mon 7/29/24								
51	*	Preconstruction Submittals	90 days	Tue 7/30/24	Mon 12/2/24			_					
152	-5	Mobilization	1 day	Tue 12/3/24	Tue 12/3/24				+				
153	-5	Nonstructural Implementatio	_	Wed 12/4/24	Tue 12/4/29				1				
54	*	Year 1 Implementat	261 days	Wed 12/4/24	Wed 12/3/25								
55	*	Year 2 Implementat	261 days	Thu 12/4/25	Thu 12/3/26								
156	*	Year 3 Implementat	261 days	Fri 12/4/26	Fri 12/3/27								
157	*	Year 4 Implementat	261 days	Mon 12/6/27	Mon 12/4/28								
58	*	Year 5 Implementat	261 days	Tue 12/5/28	Tue 12/4/29								
		Task			Project Summary		Manual Task		Start-only	E .	Deadline	•	
	apillion Cre 3/25/21	ek GRR Sch Split Milestone			Inactive Task Inactive Milestone	<b>\langle</b>	Duration-only  Manual Summa	ırv Rollup	Finish-only External Tasks	3	Progress  Manual Progress		
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U.S. Army Corps of Engineers Project: Cl17819 Final Proposed Plan Papillion Creek GRR Final Cost Estimate

Title Page

Time 10:50:48

CI17819 Final Proposed Plan Project Markups:

# **Current Working Estimate**

S&A 8% (Displayed as SIOH)
E&D 10% (Displayed as MiscOwner)
Construction Contingency: 31% (as determined by CSRA)
Real Estate Contingency: 20% (as described in Real Estate Appendix)

This project includes levees, floodwalls, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. A productivity rate of 85% is assumed due to site constraints. The fill material for the levee raise will be purchased within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 11/10/2020 Effective Date of Pricing 11/10/2020 Estimated Construction Time Days

U.S. Army Corps of Engineers Project : Cl17819 Final Proposed Plan Papillion Creek GRR Final Cost Estimate

Summary Page 1

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Summary			91,793,465	134,126,657
Lands and Damages	1	EA	22,462,931	26,955,517
Little Papillion Levee Raise Real Estate	1	EA	11,650,215	13,980,258
Dam Site 10 Real Estate	1	EA	5,846,453	7,015,744
Dam Site 19 Real Estate	1	EA	4,966,263	5,959,516
Relocations	1	EA	28,483,764	44,030,202
Little Papillion Levee Raise Utility Relocations	1	EA	380,607	588,342
Little Papillion Creek Levee Raise Real Estate Considerations	1	EA	85,289	131,839
Dam Site 10 Real Estate Considerations	1	EA	670,464	1,036,404
Dam Site 19 Real Estate Considerations	1	EA	247,993	383,347
Nonstructural Plan	1	EA	27,099,412	41,890,271
Dams	1	EA	17,913,880	27,691,276
Dam Site 10 - Dry Dam	1	EA	8,008,684	12,379,824
Dam Site 19 with Reservoir	1	EA	9,905,196	15,311,452
Mitigation	1	EA	286,384	442,692
Little Papillion Levee Raise Mitigation	1	EA	15,687	24,249
Dam Site 10 Mitigation	1	EA	26,075	40,307
Dam Site 19 Mitigation	1	EA	244,622	378,137
Levees and Floodwalls	1	EA	20,102,358	31,074,225
Little Papillion Levee Raise and Floodwall (100 Year + 3')	1	EA	20,102,358	31,074,225
Recreation Facilities	1	EA	2,544,148	3,932,744
Dam Site 19 Recreation Facilities	1	EA	2,544,148	3,932,744

U.S. Army Corps of Engineers
Project : CI17819 TSP Optimization Dry DS19 for Econ
Papillion Creek GRR Cost Estimate

Title Page

Time 13:39:26

Dry Dam Site 19 FRM Optimization

CI17819 TSP Optimization Dry DS19 for Econ Project Markups:

S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner) Contingency: 25% (as determined by CSRA)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 1/4/2021 Effective Date of Pricing 1/4/2021 Estimated Construction Time Days

# U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Dry DS19 for Econ Papillion Creek GRR Cost Estimate

DS19 - After ADM Dry Dam Design Page 1

Description	Quantity	UOM	ContractCost	ProjectCost
DS19 - After ADM Dry Dam Design			6,203,148	9,149,644
Dry Dam Site 19 (ADM Dry Dam Design) with Spillway Invert EL 1172.4 and TOD EL 1183.9	1	EA	6,203,148	9,149,644
Dry Dam Site 19	1	EA	6,203,148	9,149,644
Embankment & Spillway	1	EA	4,625,304	6,822,323
Embankment	316,100	BCY	2,602,950	3,839,352
Spillway	295,500	CY	2,022,354	2,982,972
Structures	1	EA	1,134,133	1,672,846
Intake Structure	1	EA	73,238	108,026
Stilling Basin	200	CY	161,106	237,631
Conduit, Cradle and Manhole	1	EA	391,898	578,049
Dewatering	1	EA	46,519	68,616
Filter Drain	1	EA	461,372	680,524
Reservoir	1	EA	263,755	389,039
Dam Instrumentation	1	EA	179,956	265,435

U.S. Army Corps of Engineers Project: CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Title Page

Time 17:06:57

# **Dam Site 10 Optimization**

CI17819 TSP Optimization Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 6/5/2020 Effective Date of Pricing 6/5/2020 Estimated Construction Time Days

Time 17:06:57

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

DS10 - After ADM Dry Dam Design Page 1

Description	Quantity	UOM	ContractCost	ProjectCost
DS10 - After ADM Dry Dam Design			9,145,182	14,083,581
Dry Dam Site 10 (After ADM Dry Dam Design) with Spillway Invert EL 1191.6 and TOD EL 1207.4	1	EA	9,145,182	14,083,581
Dam Site 10 - Dry Dam	1	EA	9,145,182	14,083,581
Embankment & Spillway	1	EA	7,111,508	10,951,722
Embankment	387,617	BCY	3,771,657	5,808,352
Spillway	425,500	CY	3,339,851	5,143,371
Structures	1	EA	1,693,498	2,607,986
Low Level Intake	1	EA	63,412	97,655
Intake Structure	1	EA	72,385	111,472
Stilling Basin	1	EA	61,734	95,071
Conduit, Cradle and Manhole	1	EA	280,703	432,282
Settling Basin	1	EA	723,981	1,114,930
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	340,177	523,872

Time 17:06:57

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

DS10 - After ADM Dam Design (Cost Op) Page 2

Description	Quantity	UOM	ContractCost	ProjectCost
DS10 - After ADM Dam Design (Cost Op)			10,089,054	15,537,143
Dry Dam Site 10 (After ADM Dry Dam Design - Cost Op) with Spillway Invert EL 1182.0 and TOD EL 1200.7	1	EA	10,089,054	15,537,143
Dam Site 10 - Dry Dam	1	EA	10,089,054	15,537,143
Embankment & Spillway	1	EA	8,055,380	12,405,285
Embankment	261,167	BCY	2,849,871	4,388,801
Spillway	521,800	CY	5,205,509	8,016,484
Structures	1	EA	1,693,498	2,607,986
Low Level Intake	1	EA	63,412	97,655
Intake Structure	1	EA	72,385	111,472
Stilling Basin	1	EA	61,734	95,071
Conduit, Cradle and Manhole	1	EA	280,703	432,282
Settling Basin	1	EA	723,981	1,114,930
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	340,177	523,872

U.S. Army Corps of Engineers Project: CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Title Page

Time 17:05:09

# **Dam Site 19 Optimization**

CI17819 TSP Optimization Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 6/5/2020 Effective Date of Pricing 6/5/2020 Estimated Construction Time Days

Time 17:05:09

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

DS19 - ADM Wet Dam Design Page 1

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
DS19 - ADM Wet Dam Design			8,936,873	13,762,785
Dam Site 19 with Reservoir (ADM Wet Dam Design) with Spillway Invert EL 1177.5 and TOD EL 1188.7	1	EA	8,936,873	13,762,785
Dam Site 19 with Reservoir	1	EA	8,936,873	13,762,785
Embankment & Spillway	1	EA	6,864,772	10,571,750
Embankment	414,050	BCY	5,162,163	7,949,731
Spillway	245,000	CY	1,702,610	2,622,019
Structures	1	EA	1,786,756	2,751,604
Intake Structure	1	EA	72,385	111,472
Stilling Basin	200	CY	166,505	256,418
Conduit, Cradle and Manhole	1	EA	332,602	512,207
Settling Basin	1	EA	723,981	1,114,930
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	285,345	439,431

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

DS19 - After ADM Wet Dam Design - NRD Pool Page 2

Description	Quantity	UOM	ContractCost	ProjectCost
DS19 - After ADM Wet Dam Design - NRD Pool			11,457,712	17,644,876
Dam Site 19 with Reservoir (After ADM Wet Design - NRD Pool) with Spillway Invert EL 1177.5 and TOD EL 1186.3	1	EA	11,457,712	17,644,876
Dam Site 19 with Reservoir	1	EA	11,457,712	17,644,876
Embankment & Spillway	1	EA	9,385,611	14,453,841
Embankment	361,800	BCY	3,818,876	5,881,069
Spillway	583,970	CY	5,566,735	8,572,772
Structures	1	EA	1,786,756	2,751,604
Intake Structure	1	EA	72,385	111,472
Stilling Basin	200	CY	166,505	256,418
Conduit, Cradle and Manhole	1	EA	332,602	512,207
Settling Basin	1	EA	723,981	1,114,930
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	285,345	439,431

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

DS19 - ADM Dry Dam Design Page 3

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
DS19 - ADM Dry Dam Design			7,650,208	11,781,321
Dry Dam Site 19 (ADM Dry Dam Design) with Spillway Invert EL 1172.4 and TOD EL 1183.9	1	EA	7,650,208	11,781,321
Dry Dam Site 19	1	EA	7,650,208	11,781,321
Embankment & Spillway	1	EA	5,253,335	8,090,136
Embankment	316,100	BCY	2,810,097	4,327,549
Spillway	302,120	CY	2,443,238	3,762,587
Structures	1	EA	1,907,651	2,937,783
Intake Structure	1	EA	72,385	111,472
Stilling Basin	200	CY	166,505	256,418
Conduit, Cradle and Manhole	1	EA	401,328	618,045
Settling Basin	1	EA	723,981	1,114,930
Dewatering	1	EA	52,169	80,341
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	309,266	476,270
Dam Instrumentation	1	EA	179,956	277,132

Time 17:05:09

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
DS19 - After ADM Wet Dam Design - Cost Op			12,017,915	18,507,589
Dam Site 19 with Reservoir (After ADM Wet Design - Cost Op) with Spillway Invert EL 1175.6 and TOD EL 1184.5	1	EA	12,017,915	18,507,589
Dam Site 19 with Reservoir	1	EA	12,017,915	18,507,589
Embankment & Spillway	1	EA	9,945,814	15,316,554
Embankment	327,200	BCY	3,583,551	5,518,669
Spillway	633,400	CY	6,362,263	9,797,884
Structures	1	EA	1,786,756	2,751,604
Intake Structure	1	EA	72,385	111,472
Stilling Basin	200	CY	166,505	256,418
Conduit, Cradle and Manhole	1	EA	332,602	512,207
Settling Basin	1	EA	723,981	1,114,930
Filter Drain	1	EA	491,283	756,575
Reservoir	1	EA	285,345	439,431

U.S. Army Corps of Engineers
Project : CI17819 TSP Optimization Updated Libraries
Papillion Creek GRR Cost Estimate

Title Page

Time 16:55:39

Dam Site 19 Recreation Only Analysis

CI17819 TSP Optimization Updated Libraries Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 11/9/2020 Effective Date of Pricing 11/9/2020 Estimated Construction Time Days

U.S. Army Corps of Engineers
Project : CI17819 TSP Optimization Updated Libraries
Papillion Creek GRR Cost Estimate DS19 Time 16:55:39

DS19 - After ADM Wet Dam Design - Cost Op, Recreation Only Page 1

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
DS19 - After ADM Wet Dam Design - Cost Op, Recreation Only			15,700,757	24,179,165
Dam Site 19 with Reservoir (After ADM Wet Design - Cost Op, Recreation Only) with Spillway Invert EL 1164.0 and TOD EL 1184.5	1	EA	15,700,757	24,179,165
Dam Site 19 with Reservoir	1	EA	15,700,757	24,179,165
Embankment & Spillway	1	EA	13,729,752	21,143,818
Embankment	327,200	BCY	3,436,284	5,291,878
Spillway	633,400	CY	10,293,468	15,851,940
Structures	1	EA	1,727,945	2,661,035
Intake Structure	1	EA	73,238	112,787
Stilling Basin	200	CY	161,106	248,103
Conduit, Cradle and Manhole	1	EA	312,511	481,267
Settling Basin	1	EA	719,717	1,108,365
Filter Drain	1	EA	461,372	710,513
Reservoir	1	EA	243,060	374,313

U.S. Army Corps of Engineers Project: CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Title Page

Time 16:42:56

**Big Papillion Channel Widening Optimization** 

CI17819 TSP Optimization Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 6/5/2020 Effective Date of Pricing 6/5/2020 Estimated Construction Time Days

Time 16:42:56

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Big Papillion Channel Widening Summary Page 1

Description	Quantity	UOM	ContractCost	ProjectCost
Big Papillion Channel Widening Summary			33,897,175	52,201,649
Big Papillion Channel Widening Alternatives	1	EA	33,897,175	52,201,649
Channel Widening - 150 ft Bench Width	140,000	CY	8,281,575	12,753,625
Channel Widening - 170 ft Bench Width	189,300	CY	9,048,757	13,935,086
Channel Widening - 200 ft Bench Width	285,300	CY	10,542,662	16,235,700
Channel Widening - Varied Bench Width (No Bridge Modifications)	105,000	CY	6,024,181	9,277,238

Time 16:42:56

U.S. Army Corps of Engineers Project : Cl17819 TSP Optimization Papillion Creek GRR Cost Estimate

	Papillion Creek GRR Cost Estimate	Big Papillion Channel Widening 150 ft Bench Width Page 2
escrintion		Quantity LIOM ContractCost ProjectCost

Description	<u>Quantity</u>	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Channel Widening 150 ft Bench Width			8,281,575	12,753,625
Channel Widening - 150 ft Bench Width	140,000	CY	8,281,575	12,753,625
Site Prep & Site Maintenance	1	LS	502,733	774,209
Earthwork	140,000	CY	4,163,650	6,412,020
Utility Relocations	1	EA	338,451	521,215
Replace Trail	12,775	LF	1,192,066	1,835,782
Bridge Modifications	1	EA	1,712,741	2,637,621
Riprap	5,566	TON	330,952	509,665
Bedding	1,043	TON	40,982	63,112

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Time 16:42:56

Big Papillion Channel Widening 170 ft Bench Width Page 3

Description	Quantity	UOM	ContractCost	ProjectCost
Big Papillion Channel Widening 170 ft Bench Width			9,048,757	13,935,086
Channel Widening - 170 ft Bench Width	189,300	CY	9,048,757	13,935,086
Site Prep & Site Maintenance	1	LS	502,733	774,209
Earthwork	189,300	CY	4,930,832	7,593,481
Utility Relocations	1	EA	338,451	521,215
Replace Trail	12,775	LF	1,192,066	1,835,782
Bridge Modifications	1	EA	1,712,741	2,637,621
Riprap	5,566	TON	330,952	509,665
Bedding	1,043	TON	40,982	63,112

U.S. Army Corps of Engineers Project : Cl17819 TSP Optimization Papillion Creek GRR Cost Estimate

Time 16:42:56

Big Papillion Channel Widening 200 ft Bench Width Page 4

Description	Quantity	UOM	ContractCost	ProjectCost
Big Papillion Channel Widening 200 ft Bench Width			10,542,662	16,235,700
Channel Widening - 200 ft Bench Width	285,300	CY	10,542,662	16,235,700
Site Prep & Site Maintenance	1	LS	502,733	774,209
Earthwork	285,300	CY	6,424,737	9,894,095
Utility Relocations	1	EA	338,451	521,215
Replace Trail	12,775	LF	1,192,066	1,835,782
Bridge Modifications	1	EA	1,712,741	2,637,621
Riprap	5,566	TON	330,952	509,665
Bedding	1,043	TON	40,982	63,112

Time 16:42:56

Big Papillion Channel Widening Varied Bench Width Page 5

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Channel Widening Varied Bench Width			6,024,181	9,277,238
Channel Widening - Varied Bench Width (No Bridge Modifications)	105,000	CY	6,024,181	9,277,238
Site Prep & Site Maintenance	1	LS	502,733	774,209
Earthwork	105,000	CY	3,618,997	5,573,255
Utility Relocations	1	EA	338,451	521,215
Replace Trail	12,775	LF	1,192,066	1,835,782
Riprap	5,566	TON	330,952	509,665
Bedding	1,043	TON	40,982	63,112

U.S. Army Corps of Engineers Project: CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Title Page

Time 16:08:04

Big Papillion Levee Raise/ Floodwall Optimization CI17819 TSP Optimization Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 6/5/2020 Effective Date of Pricing 6/5/2020 Estimated Construction Time Days

Time 16:08:04

Big Papillion Levee Raise/Floodwall Summary Page 1

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Levee Raise/Floodwall Summary			111,510,812	171,726,651
Big Papillion Levee Raise and Floodwall Alternatives	1	EA	111,510,812	171,726,651
Big Papillion Levee Raise and Floodwall (100 Year)	1	EA	24,904,266	38,352,570
Big Papillion Levee Raise and Floodwall (100 Year + 3')	1	EA	38,791,271	59,738,557
Big Papillion Levee Raise and Floodwall (100 Year + 5`)	1	EA	47,815,276	73,635,525

Big Papillion Levee Raise/Floodwall 100 Year Page 2

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Levee Raise/Floodwall 100 Year			24,904,266	38,352,570
Big Papillion Levee Raise and Floodwall (100 Year)	1	EA	24,904,266	38,352,570
LP8-1 RR Bridge to L St	1	EA	3,058,202	4,709,631
Replace Trail	4,072	LF	379,968	585,151
Left Bank Levee	6,790	CY	74,534	114,783
Right Bank Levee	9,270	CY	127,026	195,621
Left Bank Floodwall	1	EA	1,636,919	2,520,856
Right Bank Floodwall	1	EA	839,754	1,293,221
LP8-2 L St to Confluence	1	EA	2,017,920	3,107,597
Replace Trail	2,388	LF	222,830	343,158
Left Bank Levee	53,650	CY	1,242,826	1,913,952
Right Bank Levee	23,840	CY	552,264	850,487
BP7-1 RR to L St	1	EA	3,599,623	5,543,420
Replace Trail	4,058	LF	378,662	583,139
Left Bank Levee	23,230	CY	419,039	645,321
Right Bank Levee	7,360	CY	96,228	148,192
Left Bank Floodwall	1	EA	1,066,207	1,641,959
Right Bank Floodwall	1	EA	1,639,487	2,524,810
BP7-2 L St to Q St	1	EA	4,171,355	6,423,886
Replace Trail	5,321	LF	496,515	764,634
Left Bank Levee	65,065	CY	1,448,018	2,229,947
Right Bank Levee	25,470	CY	480,473	739,928
Left Bank Floodwall	1	EA	533,163	821,071
Right Bank Floodwall	1	EA	1,213,186	1,868,306
BP8 - Q St to Harrison St	1	EA	5,400,310	8,316,477
Replace Trail	5,898	LF	550,357	847,549
Left Bank Levee	87,470	CY	2,023,227	3,115,770
Right Bank Levee	122,030	CY	2,826,726	4,353,158
Closure Structures	1	EA	6,656,856	10,251,559
L St (Big Papio), Right Side	1	EA	1,457,589	2,244,687

Time 16:08:04

U.S. Army Corps of Engineers Project : CI17819 TSP Optimization Papillion Creek GRR Cost Estimate

Big Papillion Levee Raise/Floodwall 100 Year Page 3

Description	Quantity	UOM	ContractCost	ProjectCost
72nd St (Big Papio), Left Side	1	EA	660,254	1,016,791
72nd St (Big Papio), Right Side	1	EA	660,254	1,016,791
Q St (Big Papio), Left Side	1	EA	432,432	665,946
Q St (Big Papio), Right Side	1	EA	397,666	612,405
Harrison St (Big Papio), Right Side	1	EA	385,982	594,413
L St (Little Papio), Left Side	1	EA	1,399,387	2,155,056
L St (Little Papio), Right Side	1	EA	1,112,698	1,713,555
Closure Gate Assembly	8	EA	150,594	231,914

Big Papillion Levee Raise/Floodwall 100 Year + 3' Page 4

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Levee Raise/Floodwall 100 Year + 3'			38,791,271	59,738,557
Big Papillion Levee Raise and Floodwall (100 Year + 3`)	1	EA	38,791,271	59,738,557
LP8-1 RR Bridge to L St	1	EA	3,119,641	4,804,247
Replace Trail	3,533	LF	329,673	507,696
Left Bank Levee	34,385	CY	738,982	1,138,032
Right Bank Levee	16,150	CY	293,963	452,702
Left Bank Floodwall	1	EA	773,809	1,191,665
Right Bank Floodwall	1	EA	983,216	1,514,152
LP8-2 L St to Confluence	1	EA	3,675,498	5,660,267
Replace Trail	2,388	LF	222,830	343,158
Left Bank Levee	87,930	CY	2,036,937	3,136,883
Right Bank Levee	4,930	CY	50,800	78,233
Right Bank Floodwall	1	EA	1,364,931	2,101,993
BP7-1 RR to L St	1	EA	4,806,095	7,401,386
Replace Trail	4,208	LF	392,659	604,694
Left Bank Levee	30,890	CY	576,027	887,081
Right Bank Levee	8,145	CY	108,650	167,322
Left Bank Floodwall	1	EA	1,621,136	2,496,550
Right Bank Floodwall	1	EA	2,107,623	3,245,739
BP7-2 L St to Q St	1	EA	6,676,020	10,281,071
Replace Trail	5,321	LF	496,515	764,634
Left Bank Levee	88,180	CY	1,954,629	3,010,129
Right Bank Levee	80,680	CY	1,760,734	2,711,531
Left Bank Floodwall	1	EA	982,543	1,513,116
Right Bank Floodwall	1	EA	1,481,598	2,281,661
BP8 - Q St to Harrison St	1	EA	9,019,409	13,889,890
Replace Trail	5,898	LF	550,357	847,549
Left Bank Levee	185,165	CY	4,289,428	6,605,720
Right Bank Levee	180,425	CY	4,179,624	6,436,621
Closure Structures	1	EA	11,494,607	17,701,695

Big Papillion Levee Raise/Floodwall 100 Year + 3' Page 5

Description	Quantity	UOM	ContractCost	ProjectCost
F St (Big Papio), Left Side	1	EA	447,809	689,626
F St (Big Papio), Right Side	1	EA	447,809	689,626
L St (Big Papio), Left Side	1	EA	818,634	1,260,696
L St (Big Papio), Right Side	1	EA	2,271,423	3,497,991
72nd St (Big Papio), Left Side	1	EA	832,229	1,281,633
72nd St (Big Papio), Right Side	1	EA	832,229	1,281,633
Q St (Big Papio), Left Side	1	EA	606,952	934,707
Q St (Big Papio), Right Side	1	EA	600,871	925,342
Harrison St (Big Papio), Left Side	1	EA	414,547	638,403
Harrison St (Big Papio), Right Side	1	EA	444,049	683,836
L St (Little Papio), Left Side	1	EA	2,123,013	3,269,440
L St (Little Papio), Right Side	1	EA	1,268,761	1,953,891
Railroad Bridge	1	EA	161,939	249,386
Closure Gate Assembly	12	EA	224,342	345,487

Big Papillion Levee Raise/Floodwall 100 Year + 5' Page 6

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Big Papillion Levee Raise/Floodwall 100 Year + 5'			47,815,276	73,635,525
Big Papillion Levee Raise and Floodwall (100 Year + 5`)	1	EA	47,815,276	73,635,525
LP8-1 RR Bridge to L St	1	EA	3,774,528	5,812,774
Replace Trail	3,778	LF	352,534	542,903
Left Bank Levee	46,815	CY	1,028,455	1,583,820
Right Bank Levee	22,740	CY	446,775	688,034
Left Bank Floodwall	1	EA	866,364	1,334,201
Right Bank Floodwall	1	EA	1,080,399	1,663,815
LP8-2 L St to Confluence	1	EA	4,446,102	6,846,997
Replace Trail	2,388	LF	222,830	343,158
Left Bank Levee	114,475	CY	2,651,864	4,083,870
Right Bank Levee	4,930	CY	49,132	75,664
Right Bank Floodwall	1	EA	1,522,276	2,344,305
BP7-1 RR to L St	1	EA	5,474,783	8,431,166
Replace Trail	4,278	LF	399,191	614,753
Left Bank Levee	44,115	CY	899,185	1,384,745
Right Bank Levee	10,035	CY	99,711	153,555
Left Bank Floodwall	1	EA	1,637,700	2,522,058
Right Bank Floodwall	1	EA	2,438,996	3,756,054
BP7-2 L St to Q St	1	EA	8,460,859	13,029,722
Replace Trail	5,321	LF	496,515	764,634
Left Bank Levee	100,050	CY	2,205,403	3,396,320
Right Bank Levee	113,170	CY	2,516,433	3,875,307
Left Bank Floodwall	1	EA	1,580,426	2,433,855
Right Bank Floodwall	1	EA	1,662,082	2,559,606
BP8 - Q St to Harrison St	1	EA	11,896,441	18,320,519
Replace Trail	5,898	LF	550,357	847,549
Left Bank Levee	248,425	CY	5,754,874	8,862,506
Right Bank Levee	241,360	CY	5,591,210	8,610,464
Closure Structures	1	EA	13,762,563	21,194,348

Big Papillion Levee Raise/Floodwall 100 Year + 5' Page 7

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
F St (Big Papio), Left Side	1	EA	524,873	808,304
F St (Big Papio), Right Side	1	EA	442,667	681,707
L St (Big Papio), Left Side	1	EA	632,959	974,757
L St (Big Papio), Right Side	1	EA	2,519,526	3,880,070
72nd St (Big Papio), Left Side	1	EA	1,050,539	1,617,829
72nd St (Big Papio), Right Side	1	EA	1,050,539	1,617,829
Q St (Big Papio), Left Side	1	EA	722,652	1,112,884
Q St (Big Papio), Right Side	1	EA	893,834	1,376,505
Harrison St (Big Papio), Left Side	1	EA	529,589	815,567
Harrison St (Big Papio), Right Side	1	EA	699,171	1,076,724
L St (Little Papio), Left Side	1	EA	2,576,438	3,967,714
L St (Little Papio), Right Side	1	EA	1,655,713	2,549,797
Railroad Bridge	1	EA	239,723	369,174
Closure Gate Assembly	12	EA	224,342	345,487

Title Page

Time 16:42:09

## Little Papillion Levee Raise/ Floodwall Optimization

CI17819 TSP Optimization Project Markups:

Contingency: 36% (as determined by CSRA) S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

This project includes levees, floodwalls, channel widening, and dam construction throughout the Papillion Creek basin. There are two dams included in the estimate. The dams are costed as both dry dams and dams with a reservoir to determine what portion of the dam with a reservoir should be allocated to recreation. On West Papillion Creek, a floodwall and levee will be constructed. On South Papillion Creek, Dam Site 19 will be constructed. Little Papillion Creek includes Dam Site 10 (technically on Thomas Creek but the benefits are shown on Little Papillion Creek) and a levee/floodwall downstream. Big Papillion Creek includes channel widening, levee raises and floodwalls. The estimate is organized by reach. Some of the bridges along the new levee/levee raise will require closure structures. In most areas of the project, there is a trail running along one side of the creek. Therefore costs to replace the trail were included where work was being performed. Since the trails are already existing, this is included in the construction cost and is not considered recreation that has a different federal/sponsor cost share amount. It is assumed that the project will be scheduled so that overtime is not required. The fill material for the levee raise will be purchased (\$5/CY) within a 10 mile one-way haul distance of the project site.

Estimated by Designed by

Prepared by Elizabeth Peterson

Preparation Date 6/5/2020 Effective Date of Pricing 6/5/2020 Estimated Construction Time Days

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Time 16:42:09

Little Papillion Levee Raise/Floodwall Summary Page 1

Description	Quantity	UOM	ContractCost	ProjectCost
Little Papillion Levee Raise/Floodwall Summary			49,608,011	76,396,337
Little Papillion Creek Levee Raise and Floodwall Alternatives	1	EA	49,608,011	76,396,337
Little Papillion Levee Raise and Floodwall (100 Year)	1	EA	6,505,605	10,018,632
Little Papillion Levee Raise and Floodwall (100 Year + 3')	1	EA	18,754,861	28,882,487
Little Papillion Levee Raise and Floodwall (100 Year + 5')	1	EA	24,347,544	37,495,218

Little Papillion Levee Raise/Floodwall 100 Year Page 2

Little Papillion Levee Raise and Floodwall (100 Year)         6,505,605         10,10,832           Little Papillion Levee Raise and Floodwall (100 Year)         1         EA         6,505,605         50,101,832           LPS-Up Tier ha shove Cass St         1         EA         55,241         88,611           Replace Trail         36         LF         32,286         49,721           Left Bank Levee         1,50         CY         20,206         31,118           LPS Cass St to Dodge St         1         EA         590,704         909,864           Replace Trail         20         CY         42,276         66,645           Right Bank Levee         200         CY         42,277         3,969           Left Bank Levee         220         CY         2,577         3,969           LP6-1 Dodge St Lor Syral St         1         EA         460,555         169,855           Left Bank Levee         220         CY         2,577         3,969           LP6-1 Dodge St Lor Syral St         4         450,555         569,930           Left Bank Levee         2,30         CY         24,372         37,333           Replace Trail         3,30         CY         24,372         37,333	Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
LP5-Up Tie-in above Cass St         1 EA         56,241         86,611           Replace Trail         346         LF         32,286         49,721           Left Bank Levee         1,75         CY         3,749         5,773           Right Bank Levee         1,850         CY         20,206         31,118           LP5 Cass St to Dodge St         1         EA         599,704         909,684           Replace Trail         989         LF         92,286         142,120           Left Bank Levee         2,000         CY         43,276         66,645           Right Bank Levee         2,000         CY         2,577         3,989           Left Bank Floodwall         1         EA         462,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         462,565         696,950           LP6-1 Dodge St to 72nd St         2,940         CY         2,437         3,753           Replace Trail         1,884         LF         17,581         2,773         3,733           Left Bank Levee         2,940         CY         88,557         136,379           Left Bank Levee         2,270         CY         29,424         45,649	Little Papillion Levee Raise/Floodwall 100 Year			6,505,605	10,018,632
Replace Trail         346         LF         32,286         49,721           Left Bank Levee         175         CY         3,749         5,773           Right Bank Levee         1,650         CY         20,206         31,118           LPS Cass St to Dodge St         1         E         590,704         909,684           Replace Trail         989         LF         92,286         142,120           Left Bank Levee         2,060         CY         43,276         66,645           Right Bank Levee         2,060         CY         2,577         3,989           Left Bank Levee         1         EA         462,555         696,950           Left Bank Levee         2,940         CY         2,4372         37,533           Left Bank Levee         2,940         CY         24,372         37,533           Left Bank Ripodwall         1         EA         522,964         805,364           Replace Trail         1,027         LF         95,332         147,581           Left Bank Levee         2,700         CY         25,362         45,649           Replace Trail         1,027         LF         95,332         147,581           Left Bank Levee	Little Papillion Levee Raise and Floodwall (100 Year)	1	EA	6,505,605	10,018,632
Left Bank Levee         175         CY         3,749         5,773           Right Bank Levee         1,650         CY         20,206         31,118           LP5 Cass St to Dodge St         1         EA         590,704         90,826         124,120           Replace Trail         89         LF         92,286         142,120         Left Bank Levee         2,000         CY         43,276         66,645         Right Bank Levee         220         CY         43,276         66,645         Right Bank Levee         220         CY         45,565         66,645         Right Bank Levee         220         CY         2,577         3,989         Left Bank Evet Trail         1         EA         452,565         66,645         1,017,248         Replace Trail         1,88         LF         175,801         270,733         Left Bank Levee         2,490         CY         24,372         37,533         Right Bank Levee         4,360         CY         24,372         37,533         Right Bank Levee         4,360         CY         24,372         37,533         Right Bank Levee         1,027         LF         95,832         147,581         LF         1,25,604         A5,844         Left Bank Levee         2,730         CY         29,832         147,581 <td>LP5-Up Tie-in above Cass St</td> <td>1</td> <td>EA</td> <td>56,241</td> <td>86,611</td>	LP5-Up Tie-in above Cass St	1	EA	56,241	86,611
Right Bank Levee         1,650         CY         20,206         31,118           LP5 Cass St to Dodge St         1         EA         590,704         909,684           Replace Trail         989         LF         92,286         142,120           Left Bank Levee         2,060         CY         43,276         66,645           Right Bank Levee         220         CY         2,577         3,989           Left Bank Floodwall         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         2         4         5         29	Replace Trail	346	LF	32,286	49,721
LPS Cass St to Dodge St         1         EA         599,704         909,684           Replace Trail         989         LF         92,286         142,120           Left Bank Levee         2,060         CY         43,276         66,645           Right Bank Levee         220         CY         2,577         3,969           Left Bank Floodwall         1         EA         462,565         696,950           LPG-1 Dodge St to 72nd St         1         EA         660,551         1,017,248           Replace Trail         1,884         LF         175,801         270,733           Left Bank Levee         2,940         CY         24,372         37,533           Right Bank Levee         4,360         CY         24,372         37,533           Left Bank Floodwall         1         EA         371,821         572,604           Left Bank Levee         2,700         CY         24,372         37,533           Replace Trail         1,027         LF         95,832         147,581           Left Bank Levee         2,700         CY         29,842         45,649           Right Bank Levee         2,700         CY         5,483         8,444           Left Ban	Left Bank Levee	175	CY	3,749	5,773
Replace Trail         989         LF         92,286         142,120           Left Bank Levee         2,060         CY         43,276         66,645           Right Bank Levee         220         CY         2,577         3,969           Left Bank Floodwall         1         EA         452,565         696,950           LPG-1 Oodge St to 72nd St         1         EA         660,551         1,017,248           Replace Trail         1,884         LF         175,801         227,0733           Left Bank Levee         2,940         CY         24,372         37,533           Right Bank Levee         4,360         CY         24,372         37,533           Left Bank Floodwall         1         EA         522,964         805,364           Replace Trail         1,027         LF         95,832         147,581           Left Bank Levee         2,730         CY         29,642         45,649           Right Bank Levee         2,270         CY         5,483         8,444           Left Bank Floodwall         1         EA         1,90,479         603,690           Replace Trail         3,335         LF         311,290         479,387           Left Bank	Right Bank Levee	1,650	CY	20,206	31,118
Left Bank Levee         2,060         CY         43,276         66,645           Right Bank Levee         220         CY         2,577         3,969           Left Bank Floodwall         1         EA         452,565         696,951           LP6-1 Dodge St to 72nd St         1         EA         660,551         1,017,248           Replace Trail         1,884         LF         175,801         270,733           Left Bank Levee         2,940         CY         24,372         37,533           Right Bank Levee         4,360         CY         24,372         37,533           Left Bank Floodwall         1         EA         371,821         572,604           LP6-2 72nd St to Pacific St         1         EA         522,964         805,364           Replace Trail         1,027         LF         95,832         147,581           Left Bank Levee         2,40         CY         95,832         147,581           Left Bank Floodwall         1         EA         332,007         603,690           LP7 Pacific St to Mercy Rd         1         EA         332,007         603,690           Left Bank Levee         5,330         CY         52,355         80,627	LP5 Cass St to Dodge St	1	EA	590,704	909,684
Right Bank Levee       220       CY       2,577       3,969         Left Bank Floodwall       1       EA       452,565       696,950         LP6-1 Dodge St to 72nd St       1       EA       660,551       1,017,248         Replace Trail       1,888       LF       175,801       270,733         Left Bank Levee       2,940       CY       24,372       375,333         Right Bank Levee       4,360       CY       24,372       375,333         Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,70       CY       2,642       45,649         Right Bank Levee       2,70       CY       5,483       34,44         Left Bank Floodwall       1       EA       392,007       603,690         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       30,627         Right Bank Levee       5,330       CY       52,355       30,627 <t< td=""><td>Replace Trail</td><td>989</td><td>LF</td><td>92,286</td><td>142,120</td></t<>	Replace Trail	989	LF	92,286	142,120
Left Bank Floodwall         1         EA         452,565         696,950           LP6-1 Dodge St to 72nd St         1         EA         660,551         1,017,248           Replace Trail         1,884         LF         175,801         270,733           Left Bank Levee         2,940         CY         24,372         37,533           Right Bank Levee         4,360         CY         88,557         136,379           Left Bank Floodwall         1         EA         522,964         805,364           Replace Trail         1,027         LF         95,832         147,581           Left Bank Levee         2,730         CY         29,642         45,649           Right Bank Levee         2,700         CY         29,642         45,649           Right Bank Levee         2,700         CY         5,483         8,444           Left Bank Floodwall         1         EA         392,007         603,690           Left Bank Levee         5,330         CY         52,355         80,627           Right Bank Levee         5,330         CY         52,355         80,627           Right Bank Levee         5,330         CY         52,355         80,627           Ri	Left Bank Levee	2,060	CY	43,276	66,645
LP6-1 Dodge St to 72nd St       1       EA       660,551       1,017,248         Replace Trail       1,884       LF       175,801       270,733         Left Bank Levee       2,940       CY       24,372       37,533         Right Bank Levee       4,360       CY       88,557       136,379         Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,561         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       31,290       470,590         Replace Trail       3,333       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       5,330       CY       52,355       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504	Right Bank Levee	220	CY	2,577	3,969
Replace Trail       1,884       LF       175,801       270,733         Left Bank Levee       2,940       CY       24,372       37,533         Right Bank Levee       4,360       CY       88,557       136,379         Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       392,007       603,690         Replace Trail       3,330       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       5,330       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825	Left Bank Floodwall	1	EA	452,565	696,950
Left Bank Levee       2,940       CY       24,372       37,533         Right Bank Levee       4,360       CY       88,557       136,379         Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       392,007       603,690         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       5,330       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,345       LF       133,997       206,355	LP6-1 Dodge St to 72nd St	1	EA	660,551	1,017,248
Right Bank Levee       4,360       CY       88,557       136,379         Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581     <	Replace Trail	1,884	LF	175,801	270,733
Left Bank Floodwall       1       EA       371,821       572,604         LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       392,007       603,690         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Left Bank Levee	2,940	CY	24,372	37,533
LP6-2 72nd St to Pacific St       1       EA       522,964       805,364         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,336       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Right Bank Levee	4,360	CY	88,557	136,379
Replace Trail       1,027       LF       95,832       147,881         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Left Bank Floodwall	1	EA	371,821	572,604
Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	LP6-2 72nd St to Pacific St	1	EA	522,964	805,364
Right Bank Levee       240       CY       5,483       8,444         Left Bank Floodwall       1       EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1       EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1       EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1       EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Replace Trail	1,027	LF	95,832	147,581
Left Bank Floodwall       1 EA       392,007       603,690         LP7 Pacific St to Mercy Rd       1 EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1 EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Left Bank Levee	2,730	CY	29,642	45,649
LP7 Pacific St to Mercy Rd       1 EA       1,084,798       1,670,590         Replace Trail       3,336       LF       311,290       479,387         Left Bank Levee       5,330       CY       52,355       80,627         Right Bank Levee       1,245       CY       19,527       30,072         Left Bank Floodwall       1 EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Right Bank Levee	240	CY	5,483	8,444
Replace Trail       3,336 LF       311,290       479,387         Left Bank Levee       5,330 CY       52,355       80,627         Right Bank Levee       1,245 CY       19,527       30,072         Left Bank Floodwall       1 EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA       679,757       1,046,825         Replace Trail       1,436 LF       133,997       206,355         Left Bank Levee       4,380 CY       71,157       109,581	Left Bank Floodwall	1	EA	392,007	603,690
Left Bank Levee       5,330 CY       52,355 80,627         Right Bank Levee       1,245 CY       19,527 30,072         Left Bank Floodwall       1 EA       701,626 1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA       679,757 1,046,825         Replace Trail       1,436 LF       133,997 206,355         Left Bank Levee       4,380 CY       71,157 109,581	LP7 Pacific St to Mercy Rd	1	EA	1,084,798	1,670,590
Right Bank Levee       1,245 CY       19,527 30,072         Left Bank Floodwall       1 EA 701,626 1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA 679,757 1,046,825         Replace Trail       1,436 LF 133,997 206,355         Left Bank Levee       4,380 CY 71,157 109,581	Replace Trail	3,336	LF	311,290	479,387
Left Bank Floodwall       1 EA       701,626       1,080,504         LP8 Mercy Rd to Saddle Creek       1 EA       679,757       1,046,825         Replace Trail       1,436       LF       133,997       206,355         Left Bank Levee       4,380       CY       71,157       109,581	Left Bank Levee	5,330	CY	52,355	80,627
LP8 Mercy Rd to Saddle Creek       1 EA       679,757 1,046,825         Replace Trail       1,436 LF 133,997 206,355         Left Bank Levee       4,380 CY 71,157 109,581	Right Bank Levee	1,245	CY	19,527	30,072
Replace Trail       1,436 LF       133,997       206,355         Left Bank Levee       4,380 CY       71,157       109,581	Left Bank Floodwall	1	EA	701,626	1,080,504
Left Bank Levee 4,380 CY 71,157 109,581	LP8 Mercy Rd to Saddle Creek	1	EA	679,757	1,046,825
	Replace Trail	1,436	LF	133,997	206,355
Right Bank Levee 8,605 CY 198,193 305,218	Left Bank Levee	4,380	CY	71,157	109,581
	Right Bank Levee	8,605	CY	198,193	305,218

Little Papillion Levee Raise/Floodwall 100 Year Page 3

Description	Quantity	UOM	ContractCost	ProjectCost
Left Bank Floodwall	1	EA	276,410	425,671
Closure Structures	1	EA	2,605,971	4,013,195
Ped Bridge 2 (Little Papio), Left Side	1	EA	46,557	71,697
Ped Bridge 3 (Little Papio), Left Side	1	EA	40,585	62,501
Pacific St (Little Papio), Left Side	1	EA	622,253	958,270
72nd St (Little Papio), Left Side	1	EA	919,471	1,415,985
72nd St (Little Papio), Right Side	1	EA	919,471	1,415,985
Closure Gate Assembly	3	EA	57,634	88,756
Riprap	4,537	TON	269,768	415,442
Hauling to site	4,537	TON	199,960	307,939
Hauling on site	4,537	TON	18,046	27,790
Placement	4,537	TON	51,762	79,713
Bedding	887	TON	34,852	53,672

Little Papillion Levee Raise/Floodwall 100 Year + 3' Page 4

Little Papillion Levee Raise and Floodwall (100 Year + 3')         1 Ed. 19,100 Floodwall (100 Year + 3')         1 Ed. 19,132 Ed. 19,242 Floodwall (100 Year + 3')         2 8,282,487         <	Description	Quantity	UOM	ContractCost	ProjectCost
P5-Up Tie-in above Cass St   1,131,266   1,742,150   1,742,150   1,742,150   1,742,175	Little Papillion Levee Raise/Floodwall 100 Year + 3'			18,754,861	28,882,487
Replace Trail         677         LF         63,173         97,286           Left Bank Levee         1,365         CY         26,277         40,466           Right Bank Levee         11,384         CY         165,109         254,286           Left Bank Floodwall         1         EA         48,147         74,446           Right Bank Floodwall         1         EA         32,561         1,275,931           Left Bank Levee         2,855         CY         44,222         68,410           Right Bank Levee         2,855         CY         37,040         57,422           Left Bank Levee         2,855         CY         37,040         57,422           Left Bank Floodwall         1         EA         588,160         902,887           Right Bank Floodwall         1         EA         4,985,693         6,861,76           Replace Trail         4,347         LF         496,629         62,646           Left Bank Levee         10,205         CY         95,600         147,225           Right Bank Levee         10,205         CY         95,600         147,225           Right Bank Floodwall         1         EA         2,952,298         2,73,700 <t< td=""><td>Little Papillion Levee Raise and Floodwall (100 Year + 3')</td><td>1</td><td>EA</td><td>18,754,861</td><td>28,882,487</td></t<>	Little Papillion Levee Raise and Floodwall (100 Year + 3')	1	EA	18,754,861	28,882,487
Left Bank Levee         1,365         CY         26,277         40,466           Right Bank Levee         11,840         CY         165,109         254,288           Left Bank Floodwall         1         EA         48,147         7,416           Right Bank Floodwall         1         EA         48,147         7,416           LP5 Cass St to Dodge St         1         EA         13,80,514         2,125,981           Replace Trail         1,454         LF         135,676         208,941           Left Bank Levee         3,350         CY         44,422         68,410           Right Bank Levee         3,350         CY         44,422         68,410           Right Bank Floodwall         1         EA         566,160         902,687           Right Bank Levee         1,025         CY         45,629         8,641,176           Replace Trail         4,347         LF         405,629         824,689           Left Bank Levee         10,025         CY         145,629         223,380           Right Bank Floodwall         1         EA         1,556,298         2,370,00           Right Bank Floodwall         1         EA         2,192,989         3,377,203      <	LP5-Up Tie-in above Cass St	1	EA	1,131,266	1,742,150
Right Bank Levee         11,840         CY         165,109         254,288           Left Bank Floodwall         1         EA         48,147         74,146           Right Bank Floodwall         1         EA         282,561         1,75,983           LP5 Cass St Dodge St         1         EA         1,380,514         2,715,983           LP5 Cass St Dodge St         1         EA         1,380,514         2,715,983           LP5 Cass St Dodge St         1         EA         1,380,514         2,715,983           Left Bank Levee         2,855         CY         44,422         68,410           Right Bank Levee         3,330         CY         37,040         57,042           Left Bank Floodwall         1         EA         586,160         90,2687           Right Bank Floodwall         1         EA         4,715,569         6,461,176           Replace Trail         4,347         LF         405,629         624,669           Left Bank Levee         10,025         CY         95,600         147,225           Right Bank Floodwall         1         EA         1,356,298         2,088,700           Right Bank Floodwall         1         EA         1,356,298         2,088,700 <td>Replace Trail</td> <td>677</td> <td>LF</td> <td>63,173</td> <td>97,286</td>	Replace Trail	677	LF	63,173	97,286
Left Bank Floodwall       1       EA       48,147       74,146         Right Bank Floodwall       1       EA       828,661       1,275,983         LP5 Cass St to Dodge St       1       EA       1380,514       2,125,991         Replace Trail       1,454       LF       135,676       209,941         Left Bank Levee       2,655       CY       44,422       66,410         Right Bank Floodwall       1       EA       577,215       88,972         Left Bank Floodwall       1       EA       577,215       88,987         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,205       CY       95,000       147,225         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,025       CY       95,000       147,225         Right Bank Floodwall       1       EA       1,136,298       2,23,380         Right Bank Floodwall       1       EA       1,136,298       2,887,000         Right Bank Floodwall       1       EA       2,129,298       3,377,203         Left Bank Levee       1,027       LF       95,832       147,541 <td>Left Bank Levee</td> <td>1,365</td> <td>CY</td> <td>26,277</td> <td>40,466</td>	Left Bank Levee	1,365	CY	26,277	40,466
Right Bank Floodwall         1         EA         828,561         1,275,982           LP5 Cass St to Dodge St         1         EA         1,380,514         2,125,991           Replace Trail         1,454         LF         135,676         208,941           Left Bank Levee         2,855         CY         44,422         67,042           Left Bank Levee         3,350         CY         37,040         57,042           Left Bank Floodwall         1         EA         586,160         902,687           Right Bank Floodwall         1         EA         577,215         388,912           LP6-1 Dodge St to 72nd St         1         EA         4,195,698         6,461,176           Replace Trail         4,347         LF         405,629         624,669           Left Bank Levee         10,025         CY         95,600         147,225           Right Bank Floodwall         1         EA         1,356,298         2,088,700           Left Bank Floodwall         1         EA         2,192,989         3,377,203           Left Bank Levee         1         EA         2,192,989         3,377,203           Left Bank Levee         1         EA         2,193,832         1474,820	Right Bank Levee	11,840	CY	165,109	254,268
LPS Cass St to Dodge St         1         EA         1,380,514         2,125,991           Replace Trail         1,454         LF         135,676         208,941           Left Bank Levee         2,855         CY         44,422         68,410           Right Bank Levee         3,50         CY         37,040         570,042           Left Bank Floodwall         1         EA         577,215         888,912           LP6-1 Dodge St to 72nd St         1         EA         4,195,569         6,461,176           Replace Trail         4,347         LF         405,629         624,669           Left Bank Levee         10,025         CY         95,600         147,225           Right Bank Floodwall         1         EA         2,192,989         3,377,203           Left Bank Floodwall         1         EA         2,192,989         3,377,203           Right Bank Floodwall         1         EA         2,192,989         3,377,203           Replace Trail         1,027         LF         95,832         147,852           Left Bank Levee         2,730         CY         20,077         30,918           Left Bank Floodwall         1         EA         502,945         774,536	Left Bank Floodwall	1	EA	48,147	74,146
Replace Trail         1,454         LF         135,676         208,941           Left Bank Levee         2,855         CY         44,422         68,410           Right Bank Levee         3,350         CY         37,040         57,042           Left Bank Floodwall         1         EA         586,160         902,687           Right Bank Floodwall         1         EA         577,215         888,912           LP6-1 Dodge St to 72nd St         1         EA         4,195,569         624,669           Left Bank Levee         10,205         CY         95,600         147,225           Right Bank Levee         10,025         CY         156,622         223,380           Left Bank Floodwall         1         EA         1,356,228         2,088,700           Right Bank Floodwall         1         EA         2,192,989         3,377,203           Left Bank Levee         2,730         CY         295,282         147,581           Left Bank Levee         2,730         CY         29,642         45,649           Right Bank Floodwall         1         EA         502,945         745,536           Left Bank Floodwall         1         EA         308,790         2475,536	Right Bank Floodwall	1	EA	828,561	1,275,983
Left Bank Levee       2,855       CY       44,422       68,410         Right Bank Levee       3,350       CY       37,040       570,424         Left Bank Floodwall       1       EA       586,160       902,687         Right Bank Floodwall       1       EA       577,215       888,912         LP6-1 Dodge St to 72nd St       1       EA       4,195,669       6,461,176         Replace Trail       4,347       LF       405,629       6,461,176         Left Bank Levee       10,025       CY       95,600       147,625         Right Bank Levee       10,025       CY       145,602       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         Left Bank Levee       2,730       CY       95,832       147,422         Right Bank Levee       2,730       CY       29,642       145,649         Right Bank Floodwall       1       EA       502,945       774,536         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       502,945       774,536 <td>LP5 Cass St to Dodge St</td> <td>1</td> <td>EA</td> <td>1,380,514</td> <td>2,125,991</td>	LP5 Cass St to Dodge St	1	EA	1,380,514	2,125,991
Right Bank Levee       3,350       CY       37,040       57,042         Left Bank Floodwall       1       EA       586,160       902,687         Right Bank Floodwall       1       EA       577,215       888,912         LP6-1 Dodge St to 72nd St       1       EA       4,195,569       6,461,176         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,025       CY       95,600       147,225         Right Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       2,192,989       3,377,203         Left Bank Levee       2,703       CY       29,642       45,649         Right Bank Levee       1,407       CY       20,077       30,918         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         Right Bank Floodwall       1       EA       308,790 <t< td=""><td>Replace Trail</td><td>1,454</td><td>LF</td><td>135,676</td><td>208,941</td></t<>	Replace Trail	1,454	LF	135,676	208,941
Left Bank Floodwall       1       EA       586,160       902,687         Right Bank Floodwall       1       EA       577,215       388,912         LP6-1 Dodge St to 72nd St       1       EA       4,195,669       6,461,176         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,025       CY       95,600       147,225         Right Bank Levee       10,025       CY       145,652       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       1,956,298       3,377,203         Left Bank Cevee       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       1,03       CY       29,642       45,649         Right Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         Right Bank Floodwall       1       EA       308,790       475,536         Left Bank Floodwall       1       EA       308,790       475,536	Left Bank Levee	2,855	CY	44,422	68,410
Right Bank Floodwall       1       EA       577,215       888,912         LP6-1 Dodge St to 72nd St       1       EA       4,195,569       6,461,176         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,205       CY       95,600       147,225         Right Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,812         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       1,470       CY       20,077       30,918         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1       EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515 <t< td=""><td>Right Bank Levee</td><td>3,350</td><td>CY</td><td>37,040</td><td>57,042</td></t<>	Right Bank Levee	3,350	CY	37,040	57,042
LP6-1 Dodge St to 72nd St       1       EA       4,195,569       6,461,176         Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,205       CY       95,600       147,225         Right Bank Levee       10,025       CY       145,052       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       1,470       CY       20,077       30,918         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Left Bank Floodwall	1	EA	586,160	902,687
Replace Trail       4,347       LF       405,629       624,669         Left Bank Levee       10,205       CY       95,600       147,225         Right Bank Levee       10,025       CY       145,052       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         Left Bank Levee       1,027       LF       95,832       1474,220         Right Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       1,470       CY       20,077       30,918         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1       EA       308,790       475,536         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Right Bank Floodwall	1	EA	577,215	888,912
Left Bank Levee       10,205       CY       95,600       147,225         Right Bank Levee       10,025       CY       145,052       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       1,470       CY       20,077       30,918         Left Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1       EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	LP6-1 Dodge St to 72nd St	1	EA	4,195,569	6,461,176
Right Bank Levee       10,025       CY       145,052       223,380         Left Bank Floodwall       1       EA       1,356,298       2,088,700         Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       3,979       LF       371,290       571,787         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Replace Trail	4,347	LF	405,629	624,669
Left Bank Floodwall       1 EA       1,356,298       2,088,700         Right Bank Floodwall       1 EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1 EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Floodwall       1 EA       502,945       774,536         Right Bank Floodwall       1 EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Left Bank Levee	10,205	CY	95,600	147,225
Right Bank Floodwall       1       EA       2,192,989       3,377,203         LP6-2 72nd St to Pacific St       1       EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Floodwall       1       EA       502,945       774,536         Right Bank Floodwall       1       EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1       EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Right Bank Levee	10,025	CY	145,052	223,380
LP6-2 72nd St to Pacific St       1 EA       957,285       1,474,220         Replace Trail       1,027       LF       95,832       147,581         Left Bank Levee       2,730       CY       29,642       45,649         Right Bank Levee       1,470       CY       20,077       30,918         Left Bank Floodwall       1 EA       502,945       774,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Left Bank Floodwall	1	EA	1,356,298	2,088,700
Replace Trail       1,027 LF       95,832       147,581         Left Bank Levee       2,730 CY       29,642       45,649         Right Bank Levee       1,470 CY       20,077       30,918         Left Bank Floodwall       1 EA       502,945       774,536         Right Bank Floodwall       1 EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979 LF       371,290       571,787         Left Bank Levee       11,410 CY       157,515       242,573	Right Bank Floodwall	1	EA	2,192,989	3,377,203
Left Bank Levee       2,730 CY       29,642 45,649         Right Bank Levee       1,470 CY       20,077 30,918         Left Bank Floodwall       1 EA       502,945 774,536         Right Bank Floodwall       1 EA       308,790 475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633 2,654,395         Replace Trail       3,979 LF       371,290 571,787         Left Bank Levee       11,410 CY       157,515 242,573	LP6-2 72nd St to Pacific St	1	EA	957,285	1,474,220
Right Bank Levee       1,470 CY       20,077       30,918         Left Bank Floodwall       1 EA       502,945       774,536         Right Bank Floodwall       1 EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Replace Trail	1,027	LF	95,832	147,581
Left Bank Floodwall       1 EA       502,945       774,536         Right Bank Floodwall       1 EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979       LF       371,290       571,787         Left Bank Levee       11,410       CY       157,515       242,573	Left Bank Levee	2,730	CY	29,642	45,649
Right Bank Floodwall       1 EA       308,790       475,536         LP7 Pacific St to Mercy Rd       1 EA       1,723,633       2,654,395         Replace Trail       3,979 LF       371,290       571,787         Left Bank Levee       11,410 CY       157,515       242,573	Right Bank Levee	1,470	CY	20,077	30,918
LP7 Pacific St to Mercy Rd       1 EA 1,723,633 2,654,395         Replace Trail       3,979 LF 371,290 571,787         Left Bank Levee       11,410 CY 157,515 242,573	Left Bank Floodwall	1	EA	502,945	774,536
Replace Trail       3,979 LF       371,290       571,787         Left Bank Levee       11,410 CY       157,515       242,573	Right Bank Floodwall	1	EA	308,790	475,536
Left Bank Levee 11,410 CY 157,515 242,573	LP7 Pacific St to Mercy Rd	1	EA	1,723,633	2,654,395
	Replace Trail	3,979	LF	371,290	571,787
Right Bank Levee 7,940 CY 181,949 280,201	Left Bank Levee	11,410	CY	157,515	242,573
	Right Bank Levee	7,940	CY	181,949	280,201

Little Papillion Levee Raise/Floodwall 100 Year + 3' Page 5

Left Bank Floodwall         1         EA         1,012,800         1,559,812           LP8 Mercy Rd to Saddie Creek         1         EA         1,052,075         1,250,195           Replace Trail         1,221         LF         1619,322         225,046           Left Bank Levee         8,720         CV         1449,021         2229,426           Right Bank Levee         8,955         CY         240,454         315,000           Left Bank Floodwall         1         EA         502,558         614,020           Closure Structures         1         EA         8,009,900         12,335,246           Mercy Rd (Little Papio), Left Side         1         EA         800,315         862,884           Ped Bridge 2 (Little Papio), Left Side         1         EA         40,584         62,884           Ped Bridge 2 (Little Papio), Left Side         1         EA         40,505         69,722           Ped Bridge 2 (Little Papio), Left Side         1         EA         40,505         69,725           Ped Bridge 3 (Little Papio), Right Side         1         EA         40,505         69,725           Ped Bridge 3 (Little Papio), Right Side         1         EA         42,167         64,985           Ped Bridge 5	Description	Quantity	UOM	ContractCost	ProjectCost
Replace Trail         1,821         LF         163,922         26,680           Left Bank Levee         8,720         CY         149,021         229,492           Right Bank Levee         8,720         CY         149,021         229,492           Left Bank Floodwall         1         EA         520,568         315,000           Left Bank Floodwall         1         EA         520,698         414,023           Closure Structures         1         EA         580,315         582,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         582,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         582,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         582,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         582,884           Mercy Rd (Little Papio), Left Side         1         EA         45,300         682,894           Ped Bridge 2 (Little Papio), Left Side         1         EA         45,300         69,762           Ped Bridge 2 (Little Papio), Left Side         1         EA         42,170         64,968           Pacific St (Little Papio), Right	Left Bank Floodwall	1	EA	1,012,880	1,559,834
Left Bank Levee         8,72         CY         149,021         229,492           Right Bank Levee         8,955         CY         204,545         315,000           Left Bank Floodwall         1         EA         52,856         814,020           Closure Structures         1         EA         8,009,900         12,335,246           Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Ped Bridge 2 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         45,300         69,762           Ped Bridge 2 (Little Papio), Right Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Right Side         1         EA         40,566         77,856           Ped Bridge 3 (Little Papio), Right Side         1         EA         43,807         1,293,095           72nd St (Little Papio), Right Side         1         EA         43,807         1,293,095           72nd St (Little Papio), Right Side         1         EA         4,5060         69,392 <t< td=""><td>LP8 Mercy Rd to Saddle Creek</td><td>1</td><td>EA</td><td>1,052,075</td><td>1,620,195</td></t<>	LP8 Mercy Rd to Saddle Creek	1	EA	1,052,075	1,620,195
Right Bank Levee         8,955         CY         204,545         315,002           Left Bank Floodwall         1         EA         528,586         314,023           Closure Structures         1         EA         8,009,900         12,335,246           Mercy Rd (Little Papio), Left Side         1         EA         560,315         362,884           Mercy Rd (Little Papio), Left Side         1         EA         500,315         362,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 3 (Little Papio), Right Side         1         EA         45,500         69,762           Ped Bridge 3 (Little Papio), Right Side         1         EA         42,187         64,988           Pacific St (Little Papio), Right Side         1         EA         476,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         41,867,673         1,042,174           72nd St (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69	Replace Trail	1,821	LF	169,922	261,680
Left Bank Floodwall         1         EA         528,588         814,023           Closure Structures         1         EA         8,009,900         12,335,246           Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd (Little Papio), Left Side         1         EA         600,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         40,584         62,884           Ped Bridge 2 (Little Papio), Left Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Right Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Right Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Left Side         1         EA         45,056         77,856           Ped Bridge 3 (Little Papio), Left Side         1         EA         45,100         64,958           Pacific St (Little Papio), Left Side         1         EA         45,056         17,856           Pacific St (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Left Side         1         EA         45,060	Left Bank Levee	8,720	CY	149,021	229,492
Closure Structures         1         EA         8,009,900         12,335,246           Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd (Little Papio), Right Side         1         EA         560,315         862,884           Ped Bridge I (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         77,379         119,163           Ped Bridge 3 (Little Papio), Left Side         1         EA         50,556         77,856           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,989           Ped Bridge 3 (Little Papio), Left Side         1         EA         476,70         14,921,74           Ped Bridge 3 (Little Papio), Left Side         1         EA         476,76         14,921,74           Pacific St (Little Papio), Left Side         1         EA         476,76         14,921,74           Pacific St (Little Papio), Left Side         1         EA         45,06         69,392           72nd St (Little Papio), Right Side         1         EA         45,06         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA <td< td=""><td>Right Bank Levee</td><td>8,955</td><td>CY</td><td>204,545</td><td>315,000</td></td<>	Right Bank Levee	8,955	CY	204,545	315,000
Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd (Little Papio), Right Side         1         EA         560,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         77,379         119,163           Ped Bridge 3 (Little Papio), Left Side         1         EA         45,300         69,765           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,968           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,968           Pacific St (Little Papio), Right Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Left Side         1         EA         439,672         1,239,095           72nd St (Little Papio), Left Side         1         EA         4,380,722         1,226,315           72nd St (Little Papio), Left Side         1         EA         4,5060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA<	Left Bank Floodwall	1	EA	528,586	814,023
Mercy Rd (Little Papio), Right Side         1         EA         560,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         77,379         119,163           Ped Bridge 2 (Little Papio), Left Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,968           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,968           Pacific St (Little Papio), Left Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         839,672         1,293,095           72nd St (Little Papio), Right Side         1         EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         844,821         1,301,024           Dodge St (Little Papio), Right Side         1 <t< td=""><td>Closure Structures</td><td>1</td><td>EA</td><td>8,009,900</td><td>12,335,246</td></t<>	Closure Structures	1	EA	8,009,900	12,335,246
Ped Bridge 1 (Little Papio), Left Side         1         EA         40,584         62,499           Ped Bridge 2 (Little Papio), Left Side         1         EA         77,379         119,163           Ped Bridge 2 (Little Papio), Right Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Left Side         1         EA         50,556         77,856           Ped Bridge 3 (Little Papio), Left Side         1         EA         42,187         64,968           Pacific St (Little Papio), Left Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         839,6724         2,128,315           72nd St (Little Papio), Right Side         1         EA         1,366,167         1,795,897           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         844,821         1,301,024           Dodge St (Little Papio), Right Side         1         EA         844,821         1,301,024           Closure Gate Assembly         2         EA<	Mercy Rd (Little Papio), Left Side	1	EA	560,315	862,884
Ped Bridge 2 (Little Papio), Left Side         1 EA         77,379         119,163           Ped Bridge 2 (Little Papio), Right Side         1 EA         45,300         69,762           Ped Bridge 3 (Little Papio), Left Side         1 EA         50,556         77,856           Ped Bridge 3 (Little Papio), Left Side         1 EA         42,187         64,968           Pacific St (Little Papio), Left Side         1 EA         839,672         1,293,095           Pacific St (Little Papio), Right Side         1 EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1 EA         1,66,167         1,795,897           Ped Bridge 5 (Little Papio), Left Side         1 EA         45,060         69,392           Ped Bridge 5 (Little Papio), Left Side         1 EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1 EA         45,060         69,392           Dodge St (Little Papio), Left Side         1 EA         84,821         1,301,024           Dodge St (Little Papio), Right Side         1 EA         84,821         1,301,024           Closure Gate Assembly         9 EA         172,081         265,005           Riprap         4,537         TON         269,768         415,424           Haulin	Mercy Rd (Little Papio), Right Side	1	EA	560,315	862,884
Ped Bridge 2 (Little Papio), Right Side         1         EA         45,300         69,762           Ped Bridge 3 (Little Papio), Left Side         1         EA         50,556         77,856           Ped Bridge 3 (Little Papio), Right Side         1         EA         42,187         64,968           Pacific St (Little Papio), Left Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         839,672         1,293,095           72nd St (Little Papio), Right Side         1         EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         844,821         1,301,024           Dodge St (Little Papio), Right Side         1         EA         844,821         1,301,024           Closure Gate Assembly         9         EA         172,081         265,005           Riprap         4,537         TON         269,768	Ped Bridge 1 (Little Papio), Left Side	1	EA	40,584	62,499
Ped Bridge 3 (Little Papio), Left Side         1         EA         50,556         77,856           Ped Bridge 3 (Little Papio), Right Side         1         EA         42,187         64,968           Pacific St (Little Papio), Left Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         839,672         1,293,095           72nd St (Little Papio), Left Side         1         EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1         EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1         EA         4,5060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Dodge St (Little Papio), Right Side         1         EA         844,821         1,301,024           Cass St (Little Papio), Right Side         1         EA         844,821         1,301,024           Closure Gate Assembly         9         EA         172,081         265,005           Riprap         4,537         TON         269,768	Ped Bridge 2 (Little Papio), Left Side	1	EA	77,379	119,163
Ped Bridge 3 (Little Papio), Right Side         1         EA         42,187         64,968           Pacific St (Little Papio), Left Side         1         EA         676,736         1,042,174           Pacific St (Little Papio), Right Side         1         EA         839,672         1,293,095           72nd St (Little Papio), Left Side         1         EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1         EA         1,166,167         1,795,897           Ped Bridge 5 (Little Papio), Left Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Dodge St (Little Papio), Right Side         1         EA         844,821         1,301,024           Dodge St (Little Papio), Right Side         1         EA         844,821         1,301,024           Cass St (Little Papio), Right Side         1         EA         618,126         951,913           Closure Gate Assembly         9         EA         172,081         265,005           Riprap         4,537         TON         269,768         415,442           Hauling to site         4,537         TON         18,046         27,790 </td <td>Ped Bridge 2 (Little Papio), Right Side</td> <td>1</td> <td>EA</td> <td>45,300</td> <td>69,762</td>	Ped Bridge 2 (Little Papio), Right Side	1	EA	45,300	69,762
Pacific St (Little Papio), Left Side       1       EA       676,736       1,042,174         Pacific St (Little Papio), Right Side       1       EA       839,672       1,293,095         72nd St (Little Papio), Left Side       1       EA       1,380,724       2,126,315         72nd St (Little Papio), Right Side       1       EA       1,166,167       1,795,897         Ped Bridge 5 (Little Papio), Left Side       1       EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1       EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1       EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1       EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1       EA       618,126       951,913         Closure Gate Assembly       9       EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	Ped Bridge 3 (Little Papio), Left Side	1	EA	50,556	77,856
Pacific St (Little Papio), Right Side         1 EA         839,672         1,293,095           72nd St (Little Papio), Left Side         1 EA         1,380,724         2,126,315           72nd St (Little Papio), Right Side         1 EA         1,166,167         1,795,897           Ped Bridge 5 (Little Papio), Left Side         1 EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1 EA         844,821         1,301,024           Dodge St (Little Papio), Right Side         1 EA         844,821         1,301,024           Cass St (Little Papio), Right Side         1 EA         618,126         951,913           Closure Gate Assembly         9 EA         172,081         265,005           Riprap         4,537         TON         269,768         415,442           Hauling to site         4,537         TON         199,960         307,939           Hauling on site         4,537         TON         18,046         27,790           Placement         4,537         TON         51,762         79,713	Ped Bridge 3 (Little Papio), Right Side	1	EA	42,187	64,968
72nd St (Little Papio), Left Side       1       EA       1,380,724       2,126,315         72nd St (Little Papio), Right Side       1       EA       1,166,167       1,795,897         Ped Bridge 5 (Little Papio), Left Side       1       EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1       EA       45,060       69,392         Dodge St (Little Papio), Left Side       1       EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1       EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1       EA       618,126       951,913         Closure Gate Assembly       9       EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	Pacific St (Little Papio), Left Side	1	EA	676,736	1,042,174
72nd St (Little Papio), Right Side       1 EA       1,166,167       1,795,897         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       45,060       69,392         Dodge St (Little Papio), Left Side       1 EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	Pacific St (Little Papio), Right Side	1	EA	839,672	1,293,095
Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       45,060       69,392         Dodge St (Little Papio), Left Side       1 EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1 EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	72nd St (Little Papio), Left Side	1	EA	1,380,724	2,126,315
Ped Bridge 5 (Little Papio), Right Side       1 EA       45,060       69,392         Dodge St (Little Papio), Left Side       1 EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1 EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	72nd St (Little Papio), Right Side	1	EA	1,166,167	1,795,897
Dodge St (Little Papio), Left Side       1 EA       844,821       1,301,024         Dodge St (Little Papio), Right Side       1 EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537       TON       269,768       415,442         Hauling to site       4,537       TON       199,960       307,939         Hauling on site       4,537       TON       18,046       27,790         Placement       4,537       TON       51,762       79,713	Ped Bridge 5 (Little Papio), Left Side	1	EA	45,060	69,392
Dodge St (Little Papio), Right Side       1 EA       844,821       1,301,024         Cass St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537 TON       269,768       415,442         Hauling to site       4,537 TON       199,960       307,939         Hauling on site       4,537 TON       18,046       27,790         Placement       4,537 TON       51,762       79,713	Ped Bridge 5 (Little Papio), Right Side	1	EA	45,060	69,392
Cass St (Little Papio), Right Side       1 EA       618,126       951,913         Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537 TON       269,768       415,442         Hauling to site       4,537 TON       199,960       307,939         Hauling on site       4,537 TON       18,046       27,790         Placement       4,537 TON       51,762       79,713	Dodge St (Little Papio), Left Side	1	EA	844,821	1,301,024
Closure Gate Assembly       9 EA       172,081       265,005         Riprap       4,537 TON       269,768       415,442         Hauling to site       4,537 TON       199,960       307,939         Hauling on site       4,537 TON       18,046       27,790         Placement       4,537 TON       51,762       79,713	Dodge St (Little Papio), Right Side	1	EA	844,821	1,301,024
Riprap       4,537 TON 269,768 415,442         Hauling to site       4,537 TON 199,960 307,939         Hauling on site       4,537 TON 18,046 27,790         Placement       4,537 TON 51,762 79,713	Cass St (Little Papio), Right Side	1	EA	618,126	951,913
Hauling to site       4,537 TON 199,960 307,939         Hauling on site       4,537 TON 18,046 27,790         Placement       4,537 TON 51,762 79,713	Closure Gate Assembly	9	EA	172,081	265,005
Hauling on site       4,537 TON       18,046       27,790         Placement       4,537 TON       51,762       79,713	Riprap	4,537	TON	269,768	415,442
Placement 4,537 TON 51,762 79,713	Hauling to site	4,537	TON	199,960	307,939
	Hauling on site	4,537	TON	18,046	27,790
Bedding 887 TON 34,852 53,672	Placement	4,537	TON	51,762	79,713
	Bedding	887	TON	34,852	53,672

Little Papillion Levee Raise/Floodwall 100 Year + 5' Page 6

Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Little Papillion Levee Raise/Floodwall 100 Year + 5'			24,347,544	37,495,218
Little Papillion Levee Raise and Floodwall (100 Year + 5')	1	EA	24,347,544	37,495,218
LP5-Up Tie-in above Cass St	1	EA	1,491,874	2,297,486
Replace Trail	677	LF	63,173	97,286
Left Bank Levee	2,720	CY	57,666	88,806
Right Bank Levee	18,960	CY	330,811	509,448
Left Bank Floodwall	1	EA	55,783	85,907
Right Bank Floodwall	1	EA	984,442	1,516,040
LP5 Cass St to Dodge St	1	EA	2,003,609	3,085,558
Replace Trail	1,535	LF	143,235	220,581
Left Bank Levee	3,295	CY	50,078	77,120
Right Bank Levee	3,350	CY	37,040	57,042
Left Bank Floodwall	1	EA	1,092,353	1,682,224
Right Bank Floodwall	1	EA	680,904	1,048,591
LP6-1 Dodge St to 72nd St	1	EA	4,862,404	7,488,102
Replace Trail	4,462	LF	416,360	641,194
Left Bank Levee	13,450	CY	138,049	212,596
Right Bank Levee	10,335	CY	143,522	221,024
Left Bank Floodwall	1	EA	1,658,573	2,554,203
Right Bank Floodwall	1	EA	2,505,899	3,859,084
LP6-2 72nd St to Pacific St	1	EA	1,084,771	1,670,547
Replace Trail	1,027	LF	95,832	147,581
Left Bank Levee	2,125	CY	32,627	50,245
Right Bank Levee	1,470	CY	20,077	30,918
Left Bank Floodwall	1	EA	576,631	888,012
Right Bank Floodwall	1	EA	359,604	553,791
LP7 Pacific St to Mercy Rd	1	EA	2,234,588	3,441,266
Replace Trail	4,104	LF	382,954	589,749
Left Bank Levee	16,885	CY	281,826	434,012
Right Bank Levee	16,555	CY	382,053	588,362

Little Papillion Levee Raise/Floodwall 100 Year + 5' Page 7

Left Bank Floodwall         1         EA         1,187,755         1,829,142           LP8 Mercy Rt to Saddle Creek         1         EA         1,481,937         2,282,183           Replace Trail         2,287         LF         213,408         328,645           Left Bank Levee         13,155         CY         227,408         303,232           Right Bank Levee         16,805         CY         227,408         303,232           Left Bank Floodwall         1         EA         10,833,742         160,640           Closure Structures         1         EA         10,833,742         167,609           Mercy Rd (Little Papio), Left Side         1         EA         43,270         66,586           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,271         66,586           Ped Bridge 2 (Little Papio), Left Side         1         EA         43,212         66,640           Ped Bridge 3 (Little Papio), Left Side         1         EA         43,212         66,640           Ped Bridge 3 (Little Papio), Right Side         1         EA         45,124         83,532           Ped Bridge 3 (Little Papio), Right Side         1         EA         54,122         83,352           Ped Bridge 4 (L	Description	Quantity	<u>UOM</u>	ContractCost	ProjectCost
Replace Trail         2,287         LF         213,406         328,645           Left Bank Levee         13,555         CY         227,433         350,324           Right Bank Levee         15,605         CY         387,346         596,375           Left Bank Floodwall         1         EA         653,662         1,006,640           Closure Structures         1         EA         560,345         862,884           Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd Little Papio), Left Side         1         EA         560,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,270         66,636           Ped Bridge 2 (Little Papio), Right Side         1         EA         43,271         66,536           Ped Bridge 2 (Little Papio), Right Side         1         EA         43,271         66,546           Ped Bridge 3 (Little Papio), Right Side         1         EA         51,577         116,851           Ped Bridge 4 (Little Papio), Left Side         1         EA         51,452         792,375           First Data Access Road (Little Papio), Left Side         1         EA         54,124         83,352	Left Bank Floodwall	1	EA	1,187,755	1,829,142
Left Bank Levee         13,155         CY         227,483         350,324           Right Bank Levee         16,805         CY         387,385         596,575           Left Bank Floodwall         1         EA         653,662         1,006,640           Closure Structures         1         EA         1,883,742         16,760,962           Mercy Rd (Little Papio), Left Side         1         EA         560,315         362,884           Mercy Rd (Little Papio), Right Side         1         EA         560,315         362,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,270         66,546           Ped Bridge 2 (Little Papio), Right Side         1         EA         43,271         66,546           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 4 (Little Papio), Right Side         1         EA         541,529         792,375           Ped Bridge 5 (Little Papio), Right Side         1         EA         541,224         83,352	LP8 Mercy Rd to Saddle Creek	1	EA	1,481,937	2,282,183
Right Bank Levee         16,805         CY         387,386         596,576           Left Bank Floodwall         1         EA         653,662         1,006,640           Closure Structures         1         EA         1,088,742         16,760,962           Mercy Rd (Little Papio), Left Side         1         EA         560,315         382,884           Mer Glittle Papio, Right Side         1         EA         560,315         382,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,272         66,636           Ped Bridge 2 (Little Papio), Left Side         1         EA         43,272         66,638           Ped Bridge 3 (Little Papio), Left Side         1         EA         43,272         66,839           Ped Bridge 3 (Little Papio), Left Side         1         EA         75,877         116,851           Ped Bridge 3 (Little Papio), Left Side         1         EA         561,483         97,578           Ped Bridge 4 (Little Papio), Left Side         1         EA         514,529         792,375           Ped Bridge 4 (Little Papio), Left Side         1         EA         51,452         792,375           Ped Bridge 5 (Little Papio), Right Side         1         EA         41,20         1,333,3	Replace Trail	2,287	LF	213,406	328,645
Left Bank Floodwall         1 EA         653,662         1,006,640           Closure Structures         1 EA         10,883,742         16,760,962           Mercy Rd (Little Papio), Left Side         1 EA         560,315         362,884           Mercy Rd (Little Papio), Right Side         1 EA         560,315         362,884           Ped Bridge 1 (Little Papio), Left Side         1 EA         43,272         66,636           Ped Bridge 2 (Little Papio), Left Side         1 EA         43,212         66,546           Ped Bridge 2 (Little Papio), Left Side         1 EA         43,212         66,546           Ped Bridge 3 (Little Papio), Left Side         1 EA         56,839         87,548           Ped Bridge 3 (Little Papio), Right Side         1 EA         56,839         87,548           Ped Bridge 3 (Little Papio), Left Side         1 EA         514,529         792,375           First Data Access Road (Little Papio), Left Side         1 EA         514,529         792,375           Ped Bridge 4 (Little Papio), Left Side         1 EA         54,124         83,352           Ped Bridge 5 (Little Papio), Right Side         1 EA         91,254         1,405,252           Pacific St (Little Papio), Right Side         1 EA         1,697,603         2,614,308 <th< td=""><td>Left Bank Levee</td><td>13,155</td><td>CY</td><td>227,483</td><td>350,324</td></th<>	Left Bank Levee	13,155	CY	227,483	350,324
Closure Structures         1 EA         10,883,742         16,760,982           Mercy Rd (Little Papio), Left Side         1 EA         560,315         362,884           Mercy Rd (Little Papio), Right Side         1 EA         560,315         362,884           Ped Bridge I (Little Papio), Left Side         1 EA         43,270         66,636           Ped Bridge 2 (Little Papio), Left Side         1 EA         43,210         66,548           Ped Bridge 2 (Little Papio), Left Side         1 EA         56,849         87,548           Ped Bridge 3 (Little Papio), Left Side         1 EA         75,877         116,851           Ped Bridge 3 (Little Papio), Right Side         1 EA         75,877         116,851           Ped Bridge 4 (Little Papio), Left Side         1 EA         541,629         792,375           Ped Bridge 4 (Little Papio), Left Side         1 EA         541,629         792,375           Ped Bridge 4 (Little Papio), Right Side         1 EA         54,124         83,352           Ped Bridge 4 (Little Papio), Right Side         1 EA         91,501         1,393,976           72nd St (Little Papio), Right Side         1 EA         91,501         1,393,976           72nd St (Little Papio), Left Side         1 EA         1,097,502         2,622,966	Right Bank Levee	16,805	CY	387,386	596,575
Mercy Rd (Little Papio), Left Side         1         EA         560,315         862,884           Mercy Rd (Little Papio), Right Side         1         EA         560,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,270         66,536           Ped Bridge 2 (Little Papio), Right Side         1         EA         43,212         66,536           Ped Bridge 2 (Little Papio), Left Side         1         EA         121,035         186,394           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Left Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Left Side         1         EA         564,527         75,877         116,851           Ped Bridge 4 (Little Papio), Left Side         1         EA         541,224         83,352         726         726         726         726         726         726         726         726         726         726         726         726         726         726         726         726         726         726         726	Left Bank Floodwall	1	EA	653,662	1,006,640
Mercy Rd (Little Papio), Right Side         1         EA         560,315         862,884           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,270         66,636           Ped Bridge 1 (Little Papio), Left Side         1         EA         43,271         66,636           Ped Bridge 2 (Little Papio), Left Side         1         EA         121,035         186,394           Ped Bridge 2 (Little Papio), Left Side         1         EA         56,849         87,587           Ped Bridge 3 (Little Papio), Left Side         1         EA         62,181         95,759           Ped Bridge 3 (Little Papio), Right Side         1         EA         62,181         95,759           First Data Access Road (Little Papio), Left Side         1         EA         514,529         792,375           Ped Bridge 4 (Little Papio), Right Side         1         EA         54,124         83,352           Ped Bridge 4 (Little Papio), Right Side         1         EA         54,124         83,352           Pacific St (Little Papio), Right Side         1         EA         91,501         1,303,976           72nd St (Little Papio), Right Side         1         EA         1,003,225         2,622,966           72nd St (Little Papio), Right Side         1	Closure Structures	1	EA	10,883,742	16,760,962
Ped Bridge 1 (Little Papio), Left Side         1         EA         43,270         66,636           Ped Bridge 1 (Little Papio), Right Side         1         EA         43,212         66,546           Ped Bridge 2 (Little Papio), Left Side         1         EA         121,035         186,394           Ped Bridge 2 (Little Papio), Left Side         1         EA         56,849         87,587           Ped Bridge 3 (Little Papio), Left Side         1         EA         62,181         95,759           Ped Bridge 3 (Little Papio), Right Side         1         EA         62,181         95,759           First Data Access Road (Little Papio), Left Side         1         EA         514,529         792,375           Ped Bridge 4 (Little Papio), Left Side         1         EA         54,124         83,352           Ped Bridge 4 (Little Papio), Right Side         1         EA         54,124         83,352           Pacific St (Little Papio), Right Side         1         EA         91,501         1,405,252           Pacific St (Little Papio), Right Side         1         EA         1,703,225         2,622,966           72nd St (Little Papio), Right Side         1         EA         1,697,603         2,614,308           Ped Bridge 5 (Little Papio), Right Side	Mercy Rd (Little Papio), Left Side	1	EA	560,315	862,884
Ped Bridge 1 (Little Papio), Right Side         1         EA         43,212         66,546           Ped Bridge 2 (Little Papio), Left Side         1         EA         121,035         186,394           Ped Bridge 3 (Little Papio), Right Side         1         EA         56,849         87,587           Ped Bridge 3 (Little Papio), Left Side         1         EA         75,877         116,851           Ped Bridge 3 (Little Papio), Left Side         1         EA         514,529         792,375           First Data Access Road (Little Papio), Left Side         1         EA         541,529         792,375           First Data Access Road (Little Papio), Left Side         1         EA         541,529         792,375           Fed Bridge 4 (Little Papio), Left Side         1         EA         541,24         83,352           Ped Bridge 4 (Little Papio), Right Side         1         EA         905,179         1,393,976           72nd St (Little Papio), Right Side         1         EA         1,697,603         2,614,308           Ped Bridge 5 (Little Papio), Right Side         1         EA         1,697,603         2,614,308           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Righ	Mercy Rd (Little Papio), Right Side	1	EA	560,315	862,884
Ped Bridge 2 (Little Papio), Left Side         1 EA         121,035         186,394           Ped Bridge 2 (Little Papio), Right Side         1 EA         56,849         87,548           Ped Bridge 3 (Little Papio), Left Side         1 EA         75,877         116,851           Ped Bridge 3 (Little Papio), Left Side         1 EA         62,181         95,759           First Data Access Road (Little Papio), Left Side         1 EA         514,529         792,375           Ped Bridge 4 (Little Papio), Left Side         1 EA         54,124         83,352           Ped Bridge 4 (Little Papio), Left Side         1 EA         912,501         1,405,252           Pacific St (Little Papio), Left Side         1 EA         905,179         1,393,976           72nd St (Little Papio), Right Side         1 EA         1,605,252         2,622,966           72nd St (Little Papio), Right Side         1 EA         1,697,603         2,614,308           Ped Bridge 5 (Little Papio), Right Side         1 EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1 EA         1,043,859         1,607,542           Dodge St (Little Papio), Right Side         1 EA         1,043,859         1,607,542           Dodge St (Little Papio), Right Side         1 EA         1,043,859 <td< td=""><td>Ped Bridge 1 (Little Papio), Left Side</td><td>1</td><td>EA</td><td>43,270</td><td>66,636</td></td<>	Ped Bridge 1 (Little Papio), Left Side	1	EA	43,270	66,636
Ped Bridge 2 (Little Papio), Right Side         1         EA         56,849         87,548           Ped Bridge 3 (Little Papio), Left Side         1         EA         75,877         116,851           Ped Bridge 3 (Little Papio), Right Side         1         EA         62,181         95,759           First Data Access Road (Little Papio), Left Side         1         EA         514,529         792,375           Ped Bridge 4 (Little Papio), Left Side         1         EA         54,124         83,352           Ped Bridge 4 (Little Papio), Right Side         1         EA         54,124         83,352           Ped Bridge 5 (Little Papio), Left Side         1         EA         912,501         1,405,252           Pacific St (Little Papio), Right Side         1         EA         905,179         1,333,976           72nd St (Little Papio), Right Side         1         EA         107,03,225         2,622,966           72nd St (Little Papio), Right Side         1         EA         1,697,603         2,614,308           Ped Bridge 5 (Little Papio), Left Side         1         EA         45,060         69,392           Ped Bridge 5 (Little Papio), Right Side         1         EA         45,060         69,392           Dodge St (Little Papio), Right Side         <	Ped Bridge 1 (Little Papio), Right Side	1	EA	43,212	66,546
Ped Bridge 3 (Little Papio), Left Side       1 EA 75,877       116,851         Ped Bridge 3 (Little Papio), Right Side       1 EA 62,181       95,759         First Data Access Road (Little Papio), Left Side       1 EA 514,529       792,375         Ped Bridge 4 (Little Papio), Left Side       1 EA 54,124       83,352         Ped Bridge 4 (Little Papio), Right Side       1 EA 91,201       1,405,252         Pacific St (Little Papio), Left Side       1 EA 905,179       1,333,976         72nd St (Little Papio), Left Side       1 EA 1,703,225       2,622,966         72nd St (Little Papio), Right Side       1 EA 1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Right Side       1 EA 45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA 63,957       98,493         Dodge St (Little Papio), Right Side       1 EA 1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA 1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA 707,318       1,008,270         Western St (Little Papio), Right Side       1 EA 243,933       683,657         Closure Gate Assembly       1 EA 209,061       321,954	Ped Bridge 2 (Little Papio), Left Side	1	EA	121,035	186,394
Ped Bridge 3 (Little Papio), Right Side       1       EA       62,181       95,759         First Data Access Road (Little Papio), Left Side       1       EA       514,529       792,375         Ped Bridge 4 (Little Papio), Left Side       1       EA       54,124       83,352         Ped Bridge 4 (Little Papio), Right Side       1       EA       54,124       83,352         Pacific St (Little Papio), Left Side       1       EA       912,501       1,405,252         Pacific St (Little Papio), Right Side       1       EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1       EA       1,703,225       2,622,966         72nd St (Little Papio), Right Side       1       EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Right Side       1       EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1       EA       404,365       1,607,542         Dodge St (Little Papio), Right Side       1       EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1       EA       707,318       1,089,270         Western St (Little Papio), Right Side       1       EA       443,933       683,657         Closure	Ped Bridge 2 (Little Papio), Right Side	1	EA	56,849	87,548
First Data Access Road (Little Papio), Left Side       1       EA       514,529       792,375         Ped Bridge 4 (Little Papio), Left Side       1       EA       54,124       83,352         Ped Bridge 4 (Little Papio), Right Side       1       EA       54,124       83,352         Pacific St (Little Papio), Left Side       1       EA       912,501       1,405,252         Pacific St (Little Papio), Right Side       1       EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1       EA       1,697,603       2,612,966         72nd St (Little Papio), Right Side       1       EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1       EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1       EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1       EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1       EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1       EA       707,318       1,089,270         Western St (Little Papio), Right Side       1       EA       443,933       683,657         Clos	Ped Bridge 3 (Little Papio), Left Side	1	EA	75,877	116,851
Ped Bridge 4 (Little Papio), Left Side       1 EA       54,124       83,352         Ped Bridge 4 (Little Papio), Right Side       1 EA       54,124       83,352         Pacific St (Little Papio), Left Side       1 EA       912,501       1,405,252         Pacific St (Little Papio), Right Side       1 EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Ped Bridge 3 (Little Papio), Right Side	1	EA	62,181	95,759
Ped Bridge 4 (Little Papio), Right Side       1 EA       54,124       83,352         Pacific St (Little Papio), Left Side       1 EA       912,501       1,405,252         Pacific St (Little Papio), Right Side       1 EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1 EA       1,703,225       2,622,966         72nd St (Little Papio), Right Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	First Data Access Road (Little Papio), Left Side	1	EA	514,529	792,375
Pacific St (Little Papio), Left Side       1 EA       912,501       1,405,252         Pacific St (Little Papio), Right Side       1 EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1 EA       1,703,225       2,622,966         72nd St (Little Papio), Right Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Ped Bridge 4 (Little Papio), Left Side	1	EA	54,124	83,352
Pacific St (Little Papio), Right Side       1 EA       905,179       1,393,976         72nd St (Little Papio), Left Side       1 EA       1,703,225       2,622,966         72nd St (Little Papio), Right Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Ped Bridge 4 (Little Papio), Right Side	1	EA	54,124	83,352
72nd St (Little Papio), Left Side       1 EA       1,703,225       2,622,966         72nd St (Little Papio), Right Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Pacific St (Little Papio), Left Side	1	EA	912,501	1,405,252
72nd St (Little Papio), Right Side       1 EA       1,697,603       2,614,308         Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Pacific St (Little Papio), Right Side	1	EA	905,179	1,393,976
Ped Bridge 5 (Little Papio), Left Side       1 EA       45,060       69,392         Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	72nd St (Little Papio), Left Side	1	EA	1,703,225	2,622,966
Ped Bridge 5 (Little Papio), Right Side       1 EA       63,957       98,493         Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	72nd St (Little Papio), Right Side	1	EA	1,697,603	2,614,308
Dodge St (Little Papio), Left Side       1 EA       1,043,859       1,607,542         Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Ped Bridge 5 (Little Papio), Left Side	1	EA	45,060	69,392
Dodge St (Little Papio), Right Side       1 EA       1,006,214       1,549,570         Cass St (Little Papio), Right Side       1 EA       707,318       1,089,270         Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Ped Bridge 5 (Little Papio), Right Side	1	EA	63,957	98,493
Cass St (Little Papio), Right Side       1 EA       707,318 1,089,270         Western St (Little Papio), Right Side       1 EA       443,933 683,657         Closure Gate Assembly       11 EA       209,061 321,954	Dodge St (Little Papio), Left Side	1	EA	1,043,859	1,607,542
Western St (Little Papio), Right Side       1 EA       443,933       683,657         Closure Gate Assembly       11 EA       209,061       321,954	Dodge St (Little Papio), Right Side	1	EA	1,006,214	1,549,570
Closure Gate Assembly 11 EA 209,061 321,954	Cass St (Little Papio), Right Side	1	EA	707,318	1,089,270
	Western St (Little Papio), Right Side	1	EA	443,933	683,657
Riprap 4,537 TON 269,768 415,442	Closure Gate Assembly	11	EA	209,061	321,954
	Riprap	4,537	TON	269,768	415,442

Time 16:42:09

Little Papillion Levee Raise/Floodwall 100 Year + 5' Page 8

Description	Quantity UOM ContractC	ost ProjectCost
Hauling to site	4,537 TON 199,	960 307,939
Hauling on site	4,537 TON 18,	046 27,790
Placement	4,537 TON 51,	762 79,713
Bedding	887 TON 34,	852 53,672

U.S. Army Corps of Engineers Project : Papillion Creek Papillion Creek

Title Page

Time 11:39:51

**TSP Estimates** 

Papillion Creek Project Markups:

Contingencies Determined by ARA S&A 8% (Displayed as SIOH) E&D 10% (Displayed as MiscOwner)

Estimated by
Designed by
Prepared by EMP

Preparation Date 10/21/2019 Effective Date of Pricing 10/21/2019 Estimated Construction Time Days

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U.S. Army Corps of Engineers Project : Papillion Creek Papillion Creek

Time 11:39:51 Summary Page 1

Description	Quantity	UOM	ContractCost	Contingency	SIOH	MiscOwner	ProjectCost
Summary			81,313,733	31,284,839	7,285,710	9,107,138	128,991,420
Damage Reach with 100 Year Levees	1	EA	54,191,461	17,484,429	4,855,555	6,069,444	82,600,889
Little Papillion Creek	1	EA	21,692,880	7,632,627	1,943,682	2,429,603	33,698,792
Big Papillion Creek	1	EA	25,408,955	8,247,056	2,276,642	2,845,803	38,778,456
West Papillion Creek	1	EA	7,089,626	1,604,745	635,231	794,038	10,123,640
Dam Site 10 with Reservoir	1	EA	8,131,432	3,122,268	728,576	910,720	12,892,997
Dam Site 10 with Reservoir	1	EA	8,131,432	3,122,268	728,576	910,720	12,892,997
Dam Site 19 with Reservoir	1	EA	5,540,694	3,842,969	496,446	620,558	10,500,667
Dam Site 19 with Reservoir	1	EA	5,540,694	3,842,969	496,446	620,558	10,500,667
Dam Site 10 - Dry Dam	1	EA	7,986,364	3,059,889	715,578	894,473	12,656,303
Dam Site 10 - Dry Dam	1	EA	7,986,364	3,059,889	715,578	894,473	12,656,303
Dam Site 19 - Dry Dam	1	EA	5,463,781	3,775,285	489,555	611,943	10,340,564
Dam Site 19 - Dry Dam	1	EA	5,463,781	3,775,285	489,555	611,943	10,340,564

Detail Page 2

Description	Quantity	UOM	ContractCost	Contingency	SIOH	MiscOwner	ProjectCost
Detail			81,313,733	31,284,839	7,285,710	9,107,138	128,991,420
Damage Reach with 100 Year Levees	1	EA	54,191,461	17,484,429	4,855,555	6,069,444	82,600,889
Little Papillion Creek	1	EA	21,692,880	7,632,627	1,943,682	2,429,603	33,698,792
Little Papillion Creek Levees with Dam Site 10	1	EA	6,084,204	2,355,066	545,145	681,431	9,665,846
Levee Raises	1	EA	1,941,223	873,550	173,934	217,417	3,206,124
Floodwall	1	EA	1,595,106	334,972	142,921	178,652	2,251,652
Levee - Closure Structures	1	EA	2,547,875	1,146,544	228,290	285,362	4,208,071
Levee Raises (100 Year)	1	EA	545,484	245,468	48,875	61,094	900,921
LP7 - Pacific St to Mercy Rd	9,236	CY	84,074	37,833	7,533	9,416	138,857
LP8 - Mercy Rd to Saddle Creek	30,125	CY	461,410	207,634	41,342	51,678	762,064
Floodwall	1	EA	7,276,431	1,528,051	651,968	814,960	10,271,410
LP 5 - Cole St to Dodge St	1	EA	972,828	204,294	87,165	108,957	1,373,244
LP6 - Dodge St to 72nd St	1	EA	3,537,919	742,963	316,998	396,247	4,994,126
LP6 - 72nd St to Pacific Street	1	EA	713,068	149,744	63,891	79,864	1,006,567
LP7 - Pacific St to Mercy Rd	1	EA	1,895,983	398,156	169,880	212,350	2,676,369
LP8 - Mercy Rd to Saddle Creek	1	EA	156,634	32,893	14,034	17,543	221,104
Levee - Closure Structures	1	EA	7,786,761	3,504,043	697,694	872,117	12,860,615
Pedestrian Bridge 1	2	EA	90,944	40,925	8,149	10,186	150,202
Pedestrian Bridge 2	2	EA	196,553	88,449	17,611	22,014	324,627
Pedestrian Bridge 3	2	EA	99,026	44,562	8,873	11,091	163,551
Pacific St	2	EA	1,612,428	725,593	144,474	180,592	2,663,086
72nd St	2	EA	4,059,672	1,826,852	363,747	454,683	6,704,954
Pedestrian Bridge 5	2	EA	128,867	57,990	11,546	14,433	212,837
Cass St	2	EA	1,599,272	719,672	143,295	179,118	2,641,357
Big Papillion Creek	1	EA	25,408,955	8,247,056	2,276,642	2,845,803	38,778,456
Channel Widening	1	EA	7,230,068	1,716,377	647,814	809,768	10,404,027
Blondo to 1680	201,247	CY	7,230,068	1,716,377	647,814	809,768	10,404,027
Levee Raises (100 Year)	1	EA	7,367,894	3,315,552	660,163	825,204	12,168,813
BP7 - RR to L St	96,289	CY	1,526,428	686,892	136,768	170,960	2,521,048
BP7 - L St to Q St	100,178	CY	1,676,709	754,519	150,233	187,791	2,769,253

Detail Page 3

Description	Quantity	UOM	ContractCost	Contingency	SIOH	MiscOwner	ProjectCost
BP8 - Q St to Harrison St	200,534	CY	3,025,076	1,361,284	271,047	338,809	4,996,216
LP8 - L St to Confluence	37,611	CY	693,533	312,090	62,141	77,676	1,145,439
LP8 - RR to L St	32,139	CY	446,148	200,766	39,975	49,969	736,858
Levee - Closure Structures	1	EA	1,900,313	855,141	170,268	212,835	3,138,557
L St (Little Papio)	2	EA	1,900,313	855,141	170,268	212,835	3,138,557
Floodwall	1	EA	2,131,700	447,657	191,000	238,750	3,009,108
LP8 - RR Bridge to L St	1	EA	1,350,117	283,525	120,971	151,213	1,905,826
LP8 - L St to Confluence	1	EA	781,583	164,132	70,030	87,537	1,103,282
Channel Widening with Levee	1	EA	6,778,981	1,912,329	607,397	759,246	10,057,952
Blondo to I680	201,247	CY	6,778,981	1,912,329	607,397	759,246	10,057,952
West Papillion Creek	1	EA	7,089,626	1,604,745	635,231	794,038	10,123,640
Floodwall	1	EA	6,606,611	1,387,388	591,952	739,940	9,325,892
WP6 - Millard Ave to 144th St	1	EA	4,650,876	976,684	416,718	520,898	6,565,177
WP5 - 144th St to 149th St	1	EA	1,955,735	410,704	175,234	219,042	2,760,716
Levee	1	EA	483,015	217,357	43,278	54,098	797,748
WP5 - 144th St to 149th St	25,867	CY	290,182	130,582	26,000	32,500	479,265
WP6 - Millard Ave to 144th St	19,687	CY	192,833	86,775	17,278	21,597	318,483
Dam Site 10 with Reservoir	1	EA	8,131,432	3,122,268	728,576	910,720	12,892,997
Dam Site 10 with Reservoir	1	EA	8,131,432	3,122,268	728,576	910,720	12,892,997
Dam Site 10 with Reservoir	1	EA	8,131,432	3,122,268	728,576	910,720	12,892,997
Embankment & Spillway	1	EA	6,657,134	2,862,568	596,479	745,599	10,861,780
Structures	1	EA	1,134,116	181,459	101,617	127,021	1,544,212
Reservoir	1	EA	340,182	78,242	30,480	38,100	487,005
Dam Site 19 with Reservoir	1	EA	5,540,694	3,842,969	496,446	620,558	10,500,667
Dam Site 19 with Reservoir	1	EA	5,540,694	3,842,969	496,446	620,558	10,500,667
Dam Site 19 with Reservoir	1	EA	5,540,694	3,842,969	496,446	620,558	10,500,667
Embankment & Spillway	1	EA	4,121,825	3,627,206	369,316	461,644	8,579,991
Structures	1	EA	1,133,519	158,693	101,563	126,954	1,520,730
Reservoir	1	EA	285,350	57,070	25,567	31,959	399,946
Dam Site 10 - Dry Dam	1	EA	7,986,364	3,059,889	715,578	894,473	12,656,303

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Description	Quantity	<u>UOM</u>	ContractCost	Contingency	SIOH	MiscOwner	ProjectCost
Dam Site 10 - Dry Dam	1	EA	7,986,364	3,059,889	715,578	894,473	12,656,303
Dam Site 10 - Dry Dam	1	EA	7,986,364	3,059,889	715,578	894,473	12,656,303
Embankment & Spillway	1	EA	6,512,065	2,800,188	583,481	729,351	10,625,086
Structures	1	EA	1,134,116	181,459	101,617	127,021	1,544,212
Reservoir	1	EA	340,182	78,242	30,480	38,100	487,005
Dam Site 19 - Dry Dam	1	EA	5,463,781	3,775,285	489,555	611,943	10,340,564
Dam Site 19 - Dry Dam	1	EA	5,463,781	3,775,285	489,555	611,943	10,340,564
Dam Site 19 - Dry Dam	1	EA	5,463,781	3,775,285	489,555	611,943	10,340,564
Embankment & Spillway	1	EA	4,044,912	3,559,522	362,424	453,030	8,419,888
Structures	1	EA	1,133,519	158,693	101,563	126,954	1,520,730
Reservoir	1	EA	285,350	57,070	25,567	31,959	399,946