Ivins City Staff Report
City Council Meeting 12/20/18

Agenda Item: Discuss and Consider Award of Bid and Expenditure for the Red Mountain Dams Rehabilitation Project

Submitted by: Thomas Jorgensen, P.E., Assistant Public Works Director

Recommended City Council Action:
Approval awarding the bid for the Red Mountain Dams Rehabilitation Project to Whitaker Construction. Approve expenditure of $1,556,120 for construction services for the Red Mountain Dams Rehabilitation Project plus an additional $155,000 for contingency for a total of $1,711,120.

BACKGROUND:
The debris basins located along the base of the Red Mountain are currently not meeting the NRCS and Utah Dam Safety regulations and current engineering standards for a high hazard class dam. Ivins City has requested and received Watershed Work Plan funding from the Natural Resources Conservation Service (NRCS) to rehabilitate Debris Basins 1-6, and bring them within current regulations and standards. The project would generally consist of the following modifications to some or all the six basins: crest grading, sediment removal, trash rack replacement, new auxiliary spillways, and rill erosion improvement.

The NRCS, in combination with funding from the State, will reimburse 96.5% of total construction costs with Ivins City paying for the remaining 3.5%. The consultant and City staff advertised for bids and have received bids from 6 contractors, all of which are considered qualified to the work. The bid tabulation has been included.

FINDINGS AND ANALYSIS:
The following bids were received:

	Bid Price
Whitaker Construction	$1,556,120.00
JP Excavating Inc.	$1,667,850.00
Progressive Contracting	$1,697,552.22
Schmidt Construction	$1,789,500.00
VanCon	$1,889,850.00
Feller Enterprises	$2,096,998.08

The apparent low bidder for the project was Whitaker Construction. Staff recommends that Council approve awarding the bid to Whitaker Construction and approve the expenditure for $1,556,120 plus an additional $155,000 for contingency for a total of $1,711,120.

SUPPORT MATERIALS:
- Bid Tabulation for the NRCS Debris Basin Rehabilitation Project

FINANCIAL IMPACT:
The expense has been budgeted.
GL 53-42-878: $1,711,120 (96.5% of this expense to be reimbursed by NRCS/State funding)

Respectfully Submitted: _____
Thomas Jorgensen, P.E., Assistant Public Works Director

Content Review: _____
Dale Coulam, City Manager

BID SCHEDULE SUMMARY

NRCS Debris Basin Rehabilitation Project

Ivins City/NRCS

Bids Were Opened On: Tuesday, December 18, 2018

BID SCHEDULES A & B				Engineer's Estimate		Whitaker Construction		JP Excavating		Progressive Contracting		Schmidt Construction		VanCon	
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	Bid Schedule 1 - Basin 1														
1-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 9,793	$ 9,793.00	$ 640.00	$ 640.00	$ 11,000.00	$ 11,000.00	$ 6,293.00	$ 6,293.00	$ 7,500.00	$ 7,500.00	$ 12,000.00	$ 12,000.00
1-2	Field Survey and Staking	1	LS	$ 3,000	$ 3,000.00	$ 8,800.00	$ 8,800.00	$ 5,000.00	$ 5,000.00	$ 14,500.00	$ 14,500.00	$ 10,000.00	$ 10,000.00	$ 12,000.00	$ 12,000.00
1-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-09	1	LS	$ 23,600	$ 23,600.00	$ 29,300.00	$ 29,300.00	$ 20,000.00	$ 20,000.00	$ 19,952.00	$ 19,952.00	$ 5,000.00	$ 5,000.00	$ 19,000.00	$ 19,000.00
1-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$15.00	$ 14,250.00	$ 15.00	$ 14,250.00	$ 20.00	$ 19,000.00	$ 11.60	$ 11,020.00	$ 20.00	$ 19,000.00	$ 30.00	$ 28,500.00
1-5	Sediment Excavation within Basin	1	LS	$ 7,000	$ 7,000.00	$ 7,160.00	$ 7,160.00	$ 15,000.00	$ 15,000.00	$ 17,400.00	$ 17,400.00	$ 20,000.00	$ 20,000.00	$ 14,000.00	$ 14,000.00
1-6	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 225	$ 225.00	$ 6,750.00	$ 6,750.00	$ 10,000.00	$ 10,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
1-7	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 27,140	$ 27,140.00	$ 25,500.00	$ 25,500.00	$ 45,000.00	$ 45,000.00	$ 23,415.25	$ 23,415.25	$ 20,000.00	$ 20,000.00	$ 37,000.00	$ 37,000.00
1-8	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 1,200	$ 1,200.00	$ 590.00	$ 590.00	$ 3,000.00	$ 3,000.00	$ 246.50	$ 246.50	$ 3,600.00	$ 3,600.00	$ 5,000.00	$ 5,000.00
1-9	Revegetate Disturbed Areas at Basin	1	LS	$ 14,712	$ 14,712.00	$ 4,750.00	$ 4,750.00	$ 3,000.00	$ 3,000.00	$ 2,702.10	$ 2,702.10	$ 2,500.00	$ 2,500.00	$ 3,000.00	$ 3,000.00
1-10	Install Drainage Channel Grade Control	150	SY	$ 36	$ 5,400.00	$ 100.00	$ 15,000.00	$ 50.00	$ 7,500.00	$ 67.28	$ 10,092.00	$ 67.00	$ 10,050.00	$ 85.00	$ 12,750.00
	Bid Schedule 1 Subtotal				**$ 106,320.00**		**$ 112,740.00**		**$ 138,500.00**		**$ 107,940.85**		**$ 107,650.00**		**$ 151,250.00**
	Bid Schedule 2 - Basin 2														
2-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 11,832	$ 11,832.00	$ 2,530.00	$ 2,530.00	$ 13,400.00	$ 13,400.00	$ 8,033.00	$ 8,033.00	$ 7,500.00	$ 7,500.00	$ 15,000.00	$ 15,000.00
2-2	Field Survey and Staking	1	LS	$ 3,000	$ 3,000.00	$ 8,800.00	$ 8,800.00	$ 5,000.00	$ 5,000.00	$ 14,500.00	$ 14,500.00	$ 10,000.00	$ 10,000.00	$ 12,000.00	$ 12,000.00
2-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-10	1	LS	$ 11,800	$ 11,800.00	$ 11,100.00	$ 11,100.00	$ 20,000.00	$ 20,000.00	$ 30,160.00	$ 30,160.00	$ 5,000.00	$ 5,000.00	$ 15,000.00	$ 15,000.00
2-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$ 15	$ 14,250.00	$ 13.50	$ 12,825.00	$ 20.00	$ 19,000.00	$ 11.60	$ 11,020.00	$ 20.00	$ 19,000.00	$ 13.00	$ 12,350.00
2-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 225	$ 225.00	$ 4,560.00	$ 4,560.00	$ 10,000.00	$ 10,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
2-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 24,960	$ 24,960.00	$ 25,800.00	$ 25,800.00	$ 38,000.00	$ 38,000.00	$ 26,198.02	$ 26,198.02	$ 20,000.00	$ 20,000.00	$ 32,000.00	$ 32,000.00
2-7	New Auxiliary Spillway, Complete, including Concrete Cut-off Wall, Geotextile Fabric, Riprap, Grout, and Native Soil Cover	1	LS	$ 51,400	$ 51,400.00	$ 53,000.00	$ 53,000.00	$ 44,000.00	$ 44,000.00	$ 31,229.38	$ 31,229.38	$ 30,000.00	$ 30,000.00	$ 57,000.00	$ 57,000.00
2-8	Revegetate Disturbed Areas at Basin	1	LS	$ 11,190	$ 11,190.00	$ 3,550.00	$ 3,550.00	$ 3,000.00	$ 3,000.00	$ 2,055.23	$ 2,055.23	$ 2,500.00	$ 2,500.00	$ 3,000.00	$ 3,000.00
2-9	Remove Soil Piles at South End of Basin 2	1	LS	$ 21,000	$ 21,000.00	$ 19,500.00	$ 19,500.00	$ 18,000.00	$ 18,000.00	$ 17,400.00	$ 17,400.00	$ 5,000.00	$ 5,000.00	$ 35,000.00	$ 35,000.00
	Bid Schedule 2 Subtotal				**$ 149,657.00**		**$ 141,665.00**		**$ 170,400.00**		**$ 142,915.63**		**$ 109,000.00**		**$ 189,350.00**
	Bid Schedule 3 - Basin 3				$ -										
3-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 14,363	$ 14,363.00	$ 640.00	$ 640.00	$ 12,000.00	$ 12,000.00	$ 7,453.00	$ 7,453.00	$ 8,500.00	$ 8,500.00	$ 17,000.00	$ 17,000.00
3-2	Field Survey and Staking	1	LS	$ 3,000	$ 3,000.00	$ 9,350.00	$ 9,350.00	$ 5,000.00	$ 5,000.00	$ 14,964.00	$ 14,964.00	$ 10,000.00	$ 10,000.00	$ 12,000.00	$ 12,000.00
3-3	Decommission Existing Auxiliary Spillway, Complete	1	LS	$ 12,600	$ 12,600.00	$ 2,780.00	$ 2,780.00	$ 10,000.00	$ 10,000.00	$ 20,300.00	$ 20,300.00	$ 10,000.00	$ 10,000.00	$ 37,500.00	$ 37,500.00
3-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$ 15	$ 14,250.00	$ 15.50	$ 14,725.00	$ 20.00	$ 19,000.00	$ 11.60	$ 11,020.00	$ 20.00	$ 19,000.00	$ 30.00	$ 28,500.00
3-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 225	$ 225.00	$ 6,990.00	$ 6,990.00	$ 10,000.00	$ 10,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
3-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 27,150	$ 27,150.00	$ 26,000.00	$ 26,000.00	$ 39,000.00	$ 39,000.00	$ 27,035.40	$ 27,035.40	$ 20,000.00	$ 20,000.00	$ 37,000.00	$ 37,000.00
3-7	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 1,200	$ 1,200.00	$ 590.00	$ 590.00	$ 3,000.00	$ 3,000.00	$ 246.50	$ 246.50	$ 3,600.00	$ 3,600.00	$ 9,000.00	$ 9,000.00
3-8	New Auxiliary Spillway, Complete, including Concrete Cut-off Wall, Geotextile Fabric, Riprap, Grout, and Native Soil Cover	1	LS	$ 70,880	$ 70,880.00	$ 66,100.00	$ 66,100.00	$ 52,000.00	$ 52,000.00	$ 36,540.00	$ 36,540.00	$ 50,000.00	$ 50,000.00	$ 68,000.00	$ 68,000.00
3-9	Revegetate Disturbed Areas at Basin	1	LS	$ 13,800	$ 13,800.00	$ 4,740.00	$ 4,740.00	$ 3,000.00	$ 3,000.00	$ 2,534.60	$ 2,534.60	$ 2,500.00	$ 2,500.00	$ 3,000.00	$ 3,000.00
	Bid Schedule 3 Subtotal				**$ 157,468.00**		**$ 131,915.00**		**$ 153,000.00**		**$ 122,413.50**		**$ 133,600.00**		**$ 220,000.00**
	Bid Schedule 4 - Basin 4				$ -										
4-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 31,723	$ 31,723.00	$ 1,140.00	$ 1,140.00	$ 30,000.00	$ 30,000.00	$ 17,748.73	$ 17,748.73	$ 43,000.00	$ 43,000.00	$ 25,000.00	$ 25,000.00
4-2	Field Survey and Staking	1	LS	$ 3,000	$ 3,000.00	$ 10,500.00	$ 10,500.00	$ 10,000.00	$ 10,000.00	$ 16,124.00	$ 16,124.00	$ 11,000.00	$ 11,000.00	$ 12,000.00	$ 12,000.00

BID SCHEDULE SUMMARY

NRCS Debris Basin Rehabilitation Project

Ivins City/NRCS

Bids Were Opened On: Tuesday, December 18, 2018

BID SCHEDULES A & B				Engineer's Estimate		Whitaker Construction		JP Excavating		Progressive Contracting		Schmidt Construction		VanCon	
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
4-3	Decommission Existing Auxiliary Spillway, Complete	1	LS	$ 3,600	$ 3,600.00	$ 1,600.00	$ 1,600.00	$ 7,200.00	$ 7,200.00	$ 6,322.00	$ 6,322.00	$ 20,000.00	$ 20,000.00	$ 32,000.00	$ 32,000.00
4-4	Level Grade Dam Crest and Install Type 'G' Material	1,000	LF	$ 15	$ 15,000.00	$ 14.50	$ 14,500.00	$ 20.00	$ 20,000.00	$ 11.60	$ 11,600.00	$ 20.00	$ 20,000.00	$ 30.00	$ 30,000.00
4-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 225	$ 225.00	$ 5,260.00	$ 5,260.00	$ 10,000.00	$ 10,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
4-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 27,240	$ 27,240.00	$ 25,500.00	$ 25,500.00	$ 39,000.00	$ 39,000.00	$ 30,490.02	$ 30,490.02	$ 20,000.00	$ 20,000.00	$ 37,000.00	$ 37,000.00
4-7	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 1,200	$ 1,200.00	$ 590.00	$ 590.00	$ 3,000.00	$ 3,000.00	$ 246.50	$ 246.50	$ 3,600.00	$ 3,600.00	$ 7,000.00	$ 7,000.00
4-8	New Concrete Auxiliary Spillway, Complete	1	LS	$ 252,180	$ 252,180.00	$ 251,000.00	$ 251,000.00	$ 235,000.00	$ 235,000.00	$ 128,898.84	$ 128,898.84	$ 400,000.00	$ 400,000.00	$ 124,000.00	$ 124,000.00
4-9	Concrete Floodwall, See Detail S/4040	170	LF	$ 231	$ 39,270.00	$ 315.00	$ 53,550.00	$ 135.00	$ 22,950.00	$ 238.89	$ 40,611.30	$ 295.00	$ 50,150.00	$ 175.00	$ 29,750.00
4-10	Revegetate Disturbed Areas at Basin	1	LS	$ 16,470	$ 16,470.00	$ 5,090.00	$ 5,090.00	$ 3,000.00	$ 3,000.00	$ 29,294.64	$ 29,294.64	$ 27,500.00	$ 27,500.00	$ 30,000.00	$ 30,000.00
	Bid Schedule 4 Subtotal				**$ 389,908.00**		**$ 368,730.00**		**$ 380,150.00**		**$ 283,656.03**		**$ 605,250.00**		**$ 334,750.00**
	Bid Schedule 5 - Basin 5				$ -										
5-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 7,178	$ 7,178.00	$ 640.00	$ 640.00	$ 6,800.00	$ 6,800.00	$ 3,973.00	$ 3,973.00	$ 7,000.00	$ 7,000.00	$ 9,000.00	$ 9,000.00
5-2	Field Survey and Staking	1	LS	$ 3,000	$ 3,000.00	$ 8,520.00	$ 8,520.00	$ 2,000.00	$ 2,000.00	$ 14,152.00	$ 14,152.00	$ 10,000.00	$ 10,000.00	$ 13,000.00	$ 13,000.00
5-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-13	1	LS	$ 11,400	$ 11,400.00	$ 14,400.00	$ 14,400.00	$ 20,000.00	$ 20,000.00	$ 16,008.00	$ 16,008.00	$ 28,000.00	$ 28,000.00	$ 25,000.00	$ 25,000.00
5-4	Level Grade Dam Crest and Install Type 'G' Material	1,200	LF	$ 15	$ 18,000.00	$ 12.00	$ 14,400.00	$ 20.00	$ 24,000.00	$ 11.60	$ 13,920.00	$ 20.00	$ 24,000.00	$ 15.00	$ 18,000.00
5-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 225	$ 225.00	$ 7,960.00	$ 7,960.00	$ 5,000.00	$ 5,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 9,000.00	$ 9,000.00
5-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 25,560	$ 25,560.00	$ 25,500.00	$ 25,500.00	$ 37,000.00	$ 37,000.00	$ 25,362.82	$ 25,362.82	$ 20,000.00	$ 20,000.00	$ 37,000.00	$ 37,000.00
5-7	Revegetate Disturbed Areas at Basin	1	LS	$ 13,992	$ 13,992.00	$ 5,090.00	$ 5,090.00	$ 3,000.00	$ 3,000.00	$ 2,556.64	$ 2,556.64	$ 2,500.00	$ 2,500.00	$ 3,000.00	$ 3,000.00
	Bid Schedule 5 Subtotal				**$ 79,355.00**		**$ 76,510.00**		**$ 97,800.00**		**$ 78,292.46**		**$ 101,500.00**		**$ 114,000.00**
	Bid Schedule 6 - Basin 6														
6-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 83,100	$ 83,100.00	$ 25,200.00	$ 25,200.00	$ 58,000.00	$ 58,000.00	$ 54,683.85	$ 54,683.85	$ 52,000.00	$ 52,000.00	$ 70,000.00	$ 70,000.00
6-2	Field Survey and Staking	1	LS	$ 9,500	$ 9,500.00	$ 34,300.00	$ 34,300.00	$ 3,000.00	$ 3,000.00	$ 39,440.00	$ 39,440.00	$ 35,000.00	$ 35,000.00	$ 24,000.00	$ 24,000.00
6-3	Level Grade Dam Crest and Install Type 'G' Material	5,000	LF	$ 15	$ 75,000.00	$ 10.50	$ 52,500.00	$ 20.00	$ 100,000.00	$ 11.60	$ 58,000.00	$ 20.00	$ 100,000.00	$ 16.00	$ 80,000.00
6-4	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 450	$ 450.00	$ 7,960.00	$ 7,960.00	$ 10,000.00	$ 10,000.00	$ 2,320.00	$ 2,320.00	$ 10,000.00	$ 10,000.00	$ 37,000.00	$ 37,000.00
6-5	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02 (Includes 3 Inlet Riser Structures)	1	LS	$ 77,620	$ 77,620.00	$ 73,500.00	$ 73,500.00	$ 39,000.00	$ 39,000.00	$ 138,948.86	$ 138,948.86	$ 60,000.00	$ 60,000.00	$ 35,000.00	$ 35,000.00
6-6	New Concrete Labyrinth Weir Spillway, Complete	1	LS	$ 359,050	$ 359,050.00	$ 394,000.00	$ 394,000.00	$ 175,000.00	$ 175,000.00	$ 196,736.36	$ 196,736.36	$ 395,000.00	$ 395,000.00	$ 245,000.00	$ 245,000.00
6-7	Revegetate Disturbed Areas at Basin	1	LS	$ 80,040	$ 80,040.00	$ 24,900.00	$ 24,900.00	$ 3,000.00	$ 3,000.00	$ 14,700.68	$ 14,700.68	$ 12,500.00	$ 12,500.00	$ 15,500.00	$ 15,500.00
6-8	Install Drainage Channel Grade Control	6,800	SY	$ 34	$ 231,200.00	$ 16.50	$ 112,200.00	$ 50.00	$ 340,000.00	$ 67.28	$ 457,504.00	$ 10.00	$ 68,000.00	$ 55.00	$ 374,000.00
	Bid Schedule 6 Subtotal				**$ 915,960.00**		**$ 724,560.00**		**$ 728,000.00**		**$ 962,333.75**		**$ 732,500.00**		**$ 880,500.00**
	Total Price:				**$ 1,798,668.00**		**$ 1,556,120.00**		**$ 1,667,850.00**		**$ 1,697,552.22**		**$ 1,789,500.00**		**$ 1,889,850.00**
	TOTAL BID PRICE:				**$ 1,798,668.00**		**$ 1,556,120.00**		**$ 1,667,850.00**		**$ 1,697,552.22**		**$ 1,789,500.00**		**$ 1,889,850.00**
	DIFFERENCE FROM LOW BID:				$ -		$ -		$ 111,730.00		$ 141,432.22		$ 233,380.00		$ 333,730.00
	% DIFFERENCE FROM LOW BID:				0%		0%		7%		9%		15%		21%

BID SCHEDULE SUMMARY
NRCS Debris Basin Rehabilitation Project
Ivins City/NRCS
Bids Were Opened On: Tuesday, December 18, 2018

BOWEN COLLINS & ASSOCIATES
Celebrating 20 years

BID SCHEDULES A & B				Feller Enterprises		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Average	Low	High
	Bid Schedule 1 - Basin 1							
1-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 7,798.56	$ 7,798.56	$ 7,538.59	$ 640.00	$ 12,000.00
1-2	Field Survey and Staking	1	LS	$ 4,826.08	$ 4,826.08	$ 9,187.68	$ 4,826.08	$ 14,500.00
1-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-09	1	LS	$ 26,519.36	$ 26,519.36	$ 19,961.89	$ 5,000.00	$ 29,300.00
1-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$ 36.96	$ 35,112.00	$ 21,147.00	$ 11,020.00	$ 35,112.00
1-5	Sediment Excavation within Basin	1	LS	$ 8,263.36	$ 8,263.36	$ 13,637.23	$ 7,160.00	$ 20,000.00
1-6	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,677.10	$ 5,677.10	$ 7,124.52	$ 2,320.00	$ 10,000.00
1-7	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 36,197.70	$ 36,197.70	$ 31,185.49	$ 20,000.00	$ 45,000.00
1-8	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 11,609.40	$ 11,609.40	$ 4,007.65	$ 246.50	$ 11,609.40
1-9	Revegetate Disturbed Areas at Basin	1	LS	$ 7,115.90	$ 7,115.90	$ 3,844.67	$ 2,500.00	$ 7,115.90
1-10	Install Drainage Channel Grade Control	150	SY	$ 56.10	$ 8,415.00	$ 10,634.50	$ 7,500.00	$ 15,000.00
	Bid Schedule 1 Subtotal				$ 151,534.46	$ 128,269.22	$ 107,650.00	$ 151,534.46
	Bid Schedule 2 - Basin 2							
2-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 4,739.90	$ 4,739.90	$ 8,533.82	$ 2,530.00	$ 15,000.00
2-2	Field Survey and Staking	1	LS	$ 4,739.90	$ 4,739.90	$ 9,173.32	$ 4,739.90	$ 14,500.00
2-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-10	1	LS	$ 8,182.90	$ 8,182.90	$ 14,907.15	$ 5,000.00	$ 30,160.00
2-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$ 37.40	$ 35,530.00	$ 18,287.50	$ 11,020.00	$ 35,530.00
2-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,890.50	$ 5,890.50	$ 6,795.08	$ 2,320.00	$ 10,000.00
2-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 35,630.10	$ 35,630.10	$ 29,604.69	$ 20,000.00	$ 38,000.00
2-7	New Auxiliary Spillway, Complete, including Concrete Cut-off Wall, Geotextile Fabric, Riprap, Grout, and Native Soil Cover	1	LS	$ 94,044.50	$ 94,044.50	$ 51,545.65	$ 30,000.00	$ 94,044.50
2-8	Revegetate Disturbed Areas at Basin	1	LS	$ 8,125.70	$ 8,125.70	$ 3,705.16	$ 2,055.23	$ 8,125.70
2-9	Remove Soil Piles at South End of Basin 2	1	LS	$ 22,315.70	$ 22,315.70	$ 19,535.95	$ 5,000.00	$ 35,000.00
	Bid Schedule 2 Subtotal				$ 219,199.20	$ 162,088.31	$ 109,000.00	$ 219,199.20
	Bid Schedule 3 - Basin 3							
3-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 6,940.64	$ 6,940.64	$ 8,755.61	$ 640.00	$ 17,000.00
3-2	Field Survey and Staking	1	LS	$ 4,826.08	$ 4,826.08	$ 9,356.68	$ 4,826.08	$ 14,964.00
3-3	Decommission Existing Auxiliary Spillway, Complete	1	LS	$ 5,011.60	$ 5,011.60	$ 14,265.27	$ 2,780.00	$ 37,500.00
3-4	Level Grade Dam Crest and Install Type 'G' Material	950	LF	$ 37.40	$ 35,530.00	$ 21,295.83	$ 11,020.00	$ 35,530.00
3-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,677.10	$ 5,677.10	$ 7,164.52	$ 2,320.00	$ 10,000.00
3-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 37,878.50	$ 37,878.50	$ 31,152.32	$ 20,000.00	$ 39,000.00
3-7	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 10,811.90	$ 10,811.90	$ 4,541.40	$ 246.50	$ 10,811.90
3-8	New Auxiliary Spillway, Complete, including Concrete Cut-off Wall, Geotextile Fabric, Riprap, Grout, and Native Soil Cover	1	LS	$ 101,912.80	$ 101,912.80	$ 62,425.47	$ 36,540.00	$ 101,912.80
3-9	Revegetate Disturbed Areas at Basin	1	LS	$ 8,803.30	$ 8,803.30	$ 4,096.32	$ 2,500.00	$ 8,803.30
	Bid Schedule 3 Subtotal				$ 217,391.92	$ 163,053.40	$ 122,413.50	$ 220,000.00
	Bid Schedule 4 - Basin 4							
4-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 8,052.00	$ 8,052.00	$ 20,823.46	$ 1,140.00	$ 43,000.00
4-2	Field Survey and Staking	1	LS	$ 7,449.20	$ 7,449.20	$ 11,178.87	$ 7,449.20	$ 16,124.00

BID SCHEDULE SUMMARY
NRCS Debris Basin Rehabilitation Project
Ivins City/NRCS
Bids Were Opened On: Tuesday, December 18, 2018

BOWEN COLLINS & ASSOCIATES
Celebrating 20 Years

BID SCHEDULES A & B				Feller Enterprises		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Average	Low	High
~~4-3~~	Decommission Existing Auxiliary Spillway, Complete	1	LS	$ 2,756.60	$ 2,756.60	$ 11,646.43	$ 1,600.00	$ 32,000.00
4-4	Level Grade Dam Crest and Install Type 'G' Material	1,000	LF	$ 36.30	$ 36,300.00	$ 22,066.67	$ 11,800.00	$ 36,300.00
4-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,677.10	$ 5,677.10	$ 6,676.18	$ 2,320.00	$ 10,000.00
4-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 36,523.30	$ 36,523.30	$ 31,418.89	$ 20,000.00	$ 39,000.00
4-7	Install Concrete Collar Around Outlet Pipe, See Detail C/2248	1	EA	$ 10,811.90	$ 10,811.90	$ 4,208.07	$ 246.50	$ 10,811.90
4-8	New Concrete Auxiliary Spillway, Complete	1	LS	$ 271,074.80	$ 271,074.80	$ 234,995.61	$ 124,000.00	$ 400,000.00
4-9	Concrete Floodwall, See Detail S/4040	170	LF	$ 321.20	$ 54,604.00	$ 41,935.88	$ 22,950.00	$ 54,604.00
4-10	Revegetate Disturbed Areas at Basin	1	LS	$ 8,803.30	$ 8,803.30	$ 17,281.32	$ 3,000.00	$ 30,000.00
	Bid Schedule 4 Subtotal				$ 442,052.20	$ 402,431.37	$ 283,656.03	$ 605,250.00
	Bid Schedule 5 - Basin 5							
5-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 4,951.10	$ 4,951.10	$ 5,394.02	$ 640.00	$ 9,000.00
5-2	Field Survey and Staking	1	LS	$ 4,739.90	$ 4,739.90	$ 8,735.32	$ 2,000.00	$ 14,152.00
5-3	Grade Existing Auxiliary Spillway Crest, See Drawing C-13	1	LS	$ 12,203.40	$ 12,203.40	$ 19,268.57	$ 12,203.40	$ 28,000.00
5-4	Level Grade Dam Crest and Install Type 'G' Material	1,200	LF	$ 36.30	$ 43,560.00	$ 22,980.00	$ 13,920.00	$ 43,560.00
5-5	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,890.50	$ 5,890.50	$ 6,695.08	$ 2,320.00	$ 10,000.00
5-6	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02	1	LS	$ 36,523.30	$ 36,523.30	$ 30,231.02	$ 20,000.00	$ 37,000.00
5-7	Revegetate Disturbed Areas at Basin	1	LS	$ 8,803.30	$ 8,803.30	$ 4,158.32	$ 2,500.00	$ 8,803.30
	Bid Schedule 5 Subtotal				$ 116,671.50	$ 97,462.33	$ 76,510.00	$ 116,671.50
	Bid Schedule 6 - Basin 6							
6-1	Mobilization, Demobilization, and Administrative Items (not to exceed 8% of Total Base Bid)	1	LS	$ 10,096.90	$ 10,096.90	$ 44,996.79	$ 10,096.90	$ 70,000.00
6-2	Field Survey and Staking	1	LS	$ 8,803.30	$ 8,803.30	$ 24,090.55	$ 3,000.00	$ 39,440.00
6-3	Level Grade Dam Crest and Install Type 'G' Material	5,000	LF	$ 33.00	$ 165,000.00	$ 92,583.33	$ 52,500.00	$ 165,000.00
6-4	Remove Woody Vegetation from Embankment Slopes	1	LS	$ 5,109.50	$ 5,109.50	$ 12,064.92	$ 2,320.00	$ 37,000.00
6-5	Remove and Replace Inlet Riser Trash Rack including excavation around structure, See Drawings S-01 and S-02 (Includes 3 Inlet Riser Structures)	1	LS	$ 97,724.00	$ 97,724.00	$ 74,028.81	$ 35,000.00	$ 138,948.86
6-6	New Concrete Labyrinth Weir Spillway, Complete	1	LS	$ 339,175.10	$ 339,175.10	$ 290,818.58	$ 175,000.00	$ 395,000.00
6-7	Revegetate Disturbed Areas at Basin	1	LS	$ 40,000.00	$ 40,000.00	$ 18,433.45	$ 3,000.00	$ 40,000.00
6-8	Install Drainage Channel Grade Control	6,800	SY	$ 41.80	$ 284,240.00	$ 272,657.33	$ 68,000.00	$ 457,504.00
	Bid Schedule 6 Subtotal				$ 950,148.80	$ 829,673.76	$ 724,560.00	$ 962,333.75
		Total Price:			$ 2,096,998.08	$ 1,782,978.38	$ 1,556,120.00	$ 2,096,998.08
		TOTAL BID PRICE:			$ 2,096,998.08			
					$ 540,878.08			
					35%			