Staff Report

for the Regular Meeting of the Board of Directors, August 14, 2018

FROM: Gary D. King, P.E., PhD, Engineering Manager

DATE: August 6, 2019

SUBJECT: Armstrong Road and Ironhorse Drive DFWLE Pipeline Installation Project (FATR#1019)

ENGINEERING

RECOMMENDATION:

Award a construction contract to Hansen Brothers, Inc. for the installation of the Armstrong Road and Ironhorse Drive District Financed Waterline Extension (DFWLE) Pipeline Installation Project in the amount of \$1,070,776.00 and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

The funding agreement with the residents for Armstrong Road and Ironhorse Road DFWLE Project was approved by the Board on November 14, 2018, the funds were encumbered for this project by the Board on May 23, 2018, and it was placed on the DFWLE list by Engineering Committee on March 21, 2017. The project pipeline location is indicated on the attached map.

Quotes for the construction of the project were requested from 8 qualified contractors (C & D Contractors, Hansen Brothers Enterprises, McGuire & Hester Construction, T & S Construction, Western Engineering Contractors, Lorang Brothers Construction, Syblon Reid Contractors, and TCB Industrial, Inc.). After the mandatory pre-bid meeting on March 20, 2019, the list was reduced to five approved contractors (C & D Contractors, Hansen Brothers Enterprises, McGuire & Hester Construction, T & S Construction, and Western Engineering Contractors). Quotes were opened on April 11, 2019. Five quotes were received as shown below.

Quoter	Quote
Hansen Brothers Enterprises	\$1,070,776.00
T & S Construction	\$1,160,797.00
McGuire and Hester	\$1,233,207.00
Western Engineering Contractors	\$1,260,507.00
C & D Contractors	\$1,596,914.00

The current estimate for the construction portion of the project is \$1,177,640.00. Bidding was done in compliance with District Policy #3080, which was approved by the Board on June 27, 2018. The contract documents for this project were approved by the Board on July 25, 2018.

The project was filed as a categorical exemption per Section 15303 on January 30, 2019.

This project aligns with Strategic Goal 3 of the 2016-2018 Strategic Plan to strengthen reliability and redundancy of facilities as indicated on the Districts website at https://nidwater.com/wp-content/uploads/2016/04/2016_2018-Strategic-Plan.pdf.

Staff is recommending that the Board award the contract with Hansen Brothers Enterprises in the amount of \$1,070,776.00.

BUDGETARY IMPACT:

The budget (10151-52912-1019) for this project is \$1,515,876 that was encumbered for this project by the Board on May 23, 2018.

ATTACHMENTS: (3)

- Armstrong Road and Ironhorse Drive Pipeline Summary of Bid Responses
- Staff Report dated May 23, 2018
- Staff Report dated March 21, 2017

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NEVADA IRRIGATION DISTRICT

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Summary of Bid Response(s)-FATR 1019 Armstrong RD and Iron Horse DR

	Descriptions	Hansen Bros Enterprises	T & S Contruction	McGuire and Hester	Western Engineering	C & D Contractors
			CO		Contractors	
ltem 1	8 " PVC Pipeline	\$688,548	\$716,652	\$734,217	\$878,250	\$990,666
Item 2	2" Blow Off	\$15,540	\$27,000	\$24,000	\$13,200	\$24,432
Item 3	8" Valves	\$26,235	\$16,500	\$33,000	\$22,000	\$23,056
Item 4	Fire Hydrants	\$52,504	\$72,000	\$88,000	\$43,440	\$78,848
Item 5	Air Release Valve	\$10,347	\$15,600	\$15,000	\$8,100	\$13,497
ltem 6	Water Meter (SDII)	\$36,806	\$44,000	\$38,500	\$34,100	\$45,507
Item 7	Water Meter (SDII) HP (Note 13)	\$43,536	\$50,400	\$42,000	\$45,900	\$51,192
Item 8	Reconnect to existing service (Note 13)	\$9,861	\$12,000	\$12,000	\$5,820	\$12,798
Item 9	1-1/2 " Asphalt Overlay	\$34,620	\$49,045	\$40,390	\$31,735	\$23,080
ltem 10	Double Chip Seal	\$88,200	\$119,000	\$140,000	\$92,512	\$140,000
ltem 11	Rock excavation unforeseen	\$27,800	\$100	\$15,000	\$31,500	\$40,600
ltem 12	Road Base in addition to trench as directed by inspector	\$4,560	\$3,400	\$10,000	\$22,000	\$4,440
ltem 13	Abandon 1-Double service and 1- Single service near Station 1 0+00	\$2,156	\$5,000	\$2,000	\$920	\$3,385
ltem 14	Bollards at FH near station 26+15, 60+00, 82+00	\$4,776	\$3,600	\$4,200	\$5,040	\$4,878
ltem 15	Culvert Crossing Replacement	\$882	\$3,500	\$4,900	\$1,680	\$2,842
ltem 16	SWPPP Permit, Implementation and closeout	\$10,750	\$8,000	\$10,000	\$7,910	\$129,570
ltem 17	Seeding and storm water controls	\$13,655	\$15,000	\$20,000	\$16,400	\$8,123
Total Base Quote Price		\$1,070,776	\$1,160,797	\$1,233,207	\$1,260,507	\$1,596,914
		Hanson Bros. Enterprises	T & S Construction CO.	McGuire and Hester	Western Engineering Contractors	C & D Contractors

Memorandum

for the Engineering Committee Meeting of March 21, 2017

TO:	Engineering Committee Members
FROM:	Chip Close, Operations Manager Shannon Wood, Business Services Technician
DATE:	March 1, 2017
SUBJECT:	Iron Horse/Brewer Road District Financed Waterline Extension

OPERATIONS

RECOMMENDATION: Review and evaluate the project using District Financed Waterline Extension policy criteria; advise staff as appropriate.

BACKGROUND: Originally, the District recognized a petition for this group and processed it on the following timeline:

- Engineering Committee March 19, 2014
- Administrative Practices Committee January 6, 2015
- Board of Directors encumbered funds January 14, 2015
- Neighborhood kick-off meeting February 5, 2015
- The project was closed due to lack of Good-Faith deposits May 21, 2015
- A meeting to discuss the option of utilizing a State Revolving Fund loan for extending waterlines – August 26, 2015
- Engineering Committee encouraged the group to reapply for the DFWLE program if they desired March 15, 2016

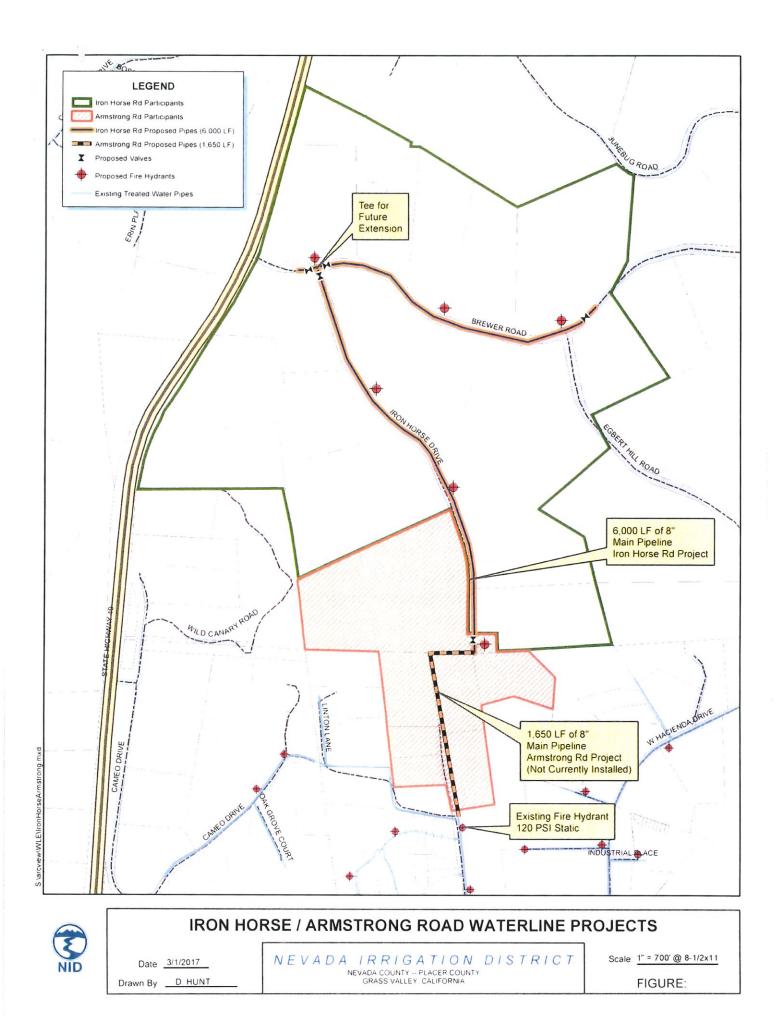
In the meantime, due to three Temporary Service Location parcels on Armstrong Road, the District has worked on a waterline extension on Armstrong Road terminating with a fire hydrant at the south end of Iron Horse Drive. This extension shortens the length of pipeline necessary to supply the Iron Horse/Brewer Road group by approximately 1,650lf.

The District received a "renewed interest" petition representing interest by twelve (12) landowners. The newly proposed project would consist of extending a waterline from the south end of Iron Horse Drive and continuing east on Brewer Road. The area has been mapped using the current policy methods and proposes approximately 6,000lf of 8-inch pipe, potentially serving 18 parcels (60% is 11 parcels). There are 15 mainline connections and 3 variance connections. There appears to be 1 vacant parcel.

BUDGETARY IMPACT: To be determined.

Attachments (1):

Area Map



Staff Report

for the Board of Directors' Meeting of May 23, 2018

- TO: Board of Directors
- FROM: Chip Close, Water Operations Manager Shannon Wood, Business Services Technician
- **DATE:** May 15, 2018

SUBJECT: Iron Horse/Brewer Road District Financed Waterline Extension

OPERATIONS

RECOMMENDATION:

Encumber funds for the Iron Horse/Brewer Road District Financed Waterline Extension project, as recommended by the Administrative Practices Committee.

BACKGROUND:

The District received a petition signed by twelve (12) landowners to extend treated water from Armstrong Road to Iron Horse Drive and continuing east on Brewer Road. The signed petition meets the 50 percent threshold and the area has been mapped using the current policy methods.

The Engineering Committee recognized this group March 21, 2017. The project proposes approximately 7,650 lf of 8-inch pipe, potentially serving 21 parcels of which 18 are mainline connections and 3 variance connections. It appears that there is one (1) vacant parcel. The total not-to-exceed cost per participant, including meter, is \$79,377.

The Administrative Practices Committee reviewed the project at the May 1, 2018 meeting. The committee unanimously agreed to advance to the Board of Directors to encumber funds as appropriate.

BUDGETARY IMPACT: The overall project estimate is \$1,515,876 of which \$55,210 will be District participation and \$26,249 collected from previous Temporary Service Location connections leaving the balance to be recovered through DFWLE Funding Agreements or future District Reimbursement as follows:

Total Project Estimate: \$1,515,876

Community Investment Stabilization Fund (District Participation): \$55,210 Temporary Service Location Funds (previously collected): \$26,249 Community Investment Stabilization Fund (Property Owner Participation): \$1,434,417

Reimbursement Potential:

Cash Deposit (Good Faith Deposit 11 @ \$7,938): \$87,318 – beginning of project Deferred Revenue (minimum of 11 @ \$60,368): \$664,048 – over 30 years Future Reimbursement (10 parcels @ \$68,306): \$683,060 – at request of meter(s)

CC/sm

Attachments (2):

- Project Estimate
- Area Map

IRON HORSE-BREWER ROAD WATER LINE EXTENSION

ADMINISTRATION

	152 25 158					District Pa	rticipation	Project Participant
	Description	Quan	tity	Unit Cost	Total Cost	Transmission &	Community	Costs
						Storage Facilities ¹	Investment Funds	00313
	Preliminary engineering study (Labor)	1	ls	\$500	\$500	\$0	\$500	\$0
	Engineering administration (Labor)	1	ls	\$1,500	\$1,500	\$0	\$1,500	\$0
b	Survey and Engineering (Consultant)	1	ls	\$10,000	\$2,500	\$0	\$2,500	\$0
Up-Front	Right of way (Labor)	1	ls	\$1,000	\$1,000	\$0	\$1,000	\$0
3	Engineering/Administration Subtotal				\$5,500	\$0	\$5,500	\$0
	Burden on Payroll (Labor only)	47	%		\$1,410	\$0	\$1,410	\$0
	Subtotal				\$6,910	\$0	\$6,910	\$0
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	Contract administration (Labor)	1	ls	\$3,000	\$3,000	\$0	\$0	\$3,000
	Engineering administration (Labor)	1	ls	\$10,000	\$10,000	\$0	\$0	\$10,000
	Engineering (Consulting fees)	1	ls	\$0	\$0	\$0	\$0	\$0
	Drafting (Labor)	1	ls	\$5,000	\$5,000	\$0	\$0	\$5,000
E	Survey (Labor)	1	ls	\$10,000	\$10,000	\$0	\$0	\$10,000
reement	Inspection (Labor)	1	ls	\$10,000	\$10,000	\$0	\$0	\$10,000
Lee	Right of way (Labor)	1	ls	\$5,000	\$5,000	\$0	\$0	\$5,000
Ag	Right of way (Acquisition) ²	1	ls	\$90,000	\$90,000	\$0	\$0	\$90,000
After	Right of way (Consultant)	0	ls	\$0	\$0	\$0	\$0	\$0
	CEQA administration (Labor) ³	1	ls	\$1,000	\$1,000	\$0	\$0	\$1,000
	Fish & Game, CEQA, & Recording Fees	0	ls	\$3,000	\$0	\$0	\$0	\$0
	Engineering/Administration Subtotal				\$134,000	\$0	\$0	\$134,000
	Burden on Payroll (Labor only)	47	%		\$20,680	\$0	\$0	\$20,680
	Subtotal				\$154,680	\$0	\$0	\$154,680
	Administration Subtotal				\$161,590	\$0	\$6,910	\$154,680

CONSTRUCTION

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е	φ.	\$2,000	\$12,000	\$0	\$0	\$12,000
	a \$	6,000	\$42,000	\$0	\$42,000	\$0
ls	\$	\$2,000	\$4,000	\$0	\$0	\$4,000
ls	\$2	20,000	\$20,000	\$0	\$0	\$20,000
е	a \$	51,200	\$28,800	\$0	\$0	\$28,800
е	a \$	\$2,000	\$0	\$0	\$0	\$0
0 s	f \$	\$2.40	\$27,840	\$0	\$0	\$27,840
0 S	F \$	\$0.60	\$84,000	\$0	\$0	\$84,000
ls	\$1	10,000	\$10,000	\$0	\$0	\$10,000
С	y s	\$200	\$20,000	\$0	\$0	\$20,000
			\$1,177,640	\$0	\$42,000	\$1,135,640
9	6		\$176,646	\$0	\$6,300	\$170,346
			\$1,354,286	\$0	\$48,300	\$1,305,986
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TOTAL ESTIMATED PROJECT COST

\$1,515,876

\$0 \$55,210 Payment from TSLs Total

CONSTRUCTION COST PER PARCEL =

LINEAR FEET PER PARCEL=

18 Parcels fronting mainline

3 Parcel by variance

3 Parcel by TSLs (not included in the cost per parcel, costs removed from total)

24 Total Parcels

1 Funding for Transmission & Storage Facilities from Capacity Fees.

2 There is a PUE on Brewer and not on Iron Horse, these funds are for the purchase of ROW on Iron Horse assumes purchase of 9

3 CEQA includes as a categorical exemption

4 Assume 2 inch overlay on Armstrong

Assumes Double Chip Seal per previous requirements on the Golden Oaks Homeowners Association
 Miscellaneous repair on Brewer required by Golden Oaks Homeowners Association

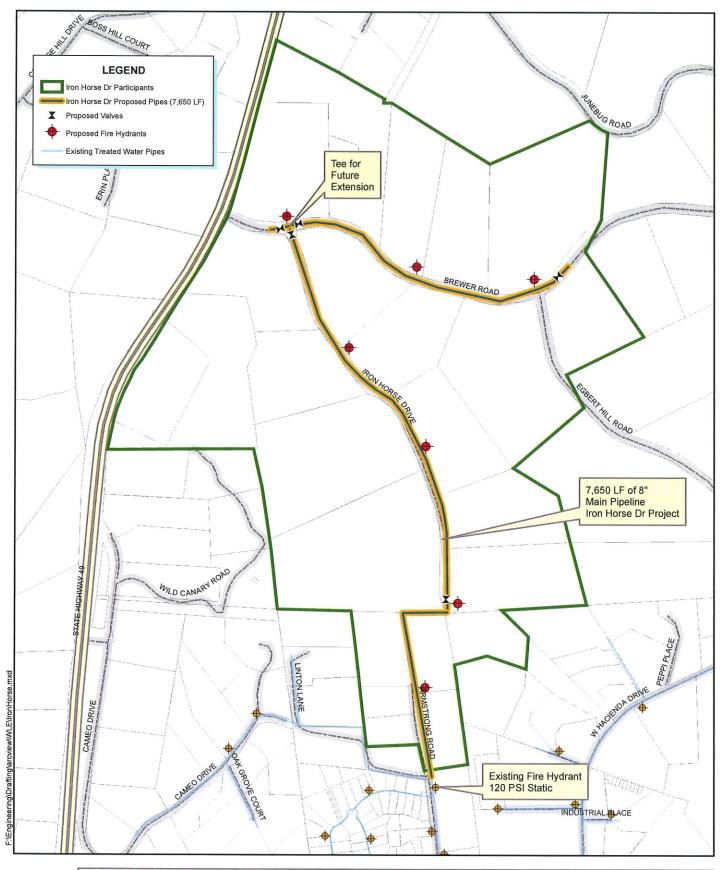
\$1,460,666

-\$26,249

\$1,434,417

319

\$68,306



Date: 4/10/2018 NEVADA IRRIGATION DISTRICT Scale: 1" = 700'@ 8-1/2x11 Drawn By: D. HUNT NEVADA COUNTY - PLACER COUNTY FIGURE:

NID