



**CITY OF SONORA**  
201 East Main  
Sonora, Texas 76950-3798  
325-387-2558  
FAX 325-387-5923

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## **Public Report on the Lift Station Project – City of Sonora**

### **Background:**

On September 21, 2018, the City of Sonora experienced a severe flood event that caused significant damage to public infrastructure. One of the most critically affected facilities was the lift station located in the 900 block of North Water Street near the Interstate Service Road. This lift station, which plays a vital role in managing wastewater for a key commercial area of Sonora, was completely submerged during the flood, leading to extensive damage.

### **Impact of the Flood Event:**

As a direct result of the flooding, the following damages occurred:

- **Inlet Line Damage:** The lines leading to the lift station sustained severe damage.
- **Station Displacement:** The force of the floodwaters shifted the lift station structure.
- **Equipment Failure:** The underground trash pumps were damaged, limiting operational capacity.
- **Electrical System Destruction:** The entire electrical panel controlling the lift station was destroyed.

Since the flood, city employees (working in collaboration with external contractors) have managed to restore partial functionality to the lift station. Currently, the station is operating on a single trash pump without any backup system. This lack of redundancy has already resulted in multiple instances of complete system failure, posing an ongoing risk to the community.

### **Importance of the Lift Station:**

This lift station serves a critical area of Sonora, including the majority of the city's motels, restaurants, and retail stores. Without a fully operational and reliable lift station, there is a significant risk of wastewater management failure, a catastrophic event that could disrupt essential services and public health.

### **Need for Relocation:**

One of the primary challenges in fully repairing the lift station is its location within the floodway of the Dry Devils River. To prevent future flood-related failures, it is essential to relocate the lift station to higher ground. EHT Engineering Services, which has been working closely with the



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city, has confirmed the necessity of constructing a new lift station and demolishing the damaged one. Public Management has also been involved in overseeing the project to ensure compliance with federal, state, and local guidelines.

### **Project Costs and Funding:**

Initially, the project was planned to be funded through American Rescue Plan Act (ARPA) funds in the amount of \$691,073.81. However, due to rising costs and the complexity of the relocation, the total estimated project cost has increased significantly. The contract for the project has been awarded to Darnell Construction at a total price of \$1,793,432. This figure reflects the necessary work to build a new, more resilient lift station outside the flood-prone area and to demolish the existing damaged structure.

It is important to note that this project cannot be analyzed with a single cost breakdown. Since its inception, multiple parties involved in assisting the City of Sonora have incurred significant expenses beyond the initial **\$700,000**. These parties include:

**Public Management** – Overseeing project management to ensure compliance with federal, state, and local guidelines, with incurred expenses totaling **\$12,250.00**.

**EHT Engineering Services** – Providing engineering expertise and construction oversight, with incurred expenses totaling **\$105,000.00**.

**Darnell Construction** – Selected as the lowest responsible bidder for the construction of the new lift station and relocation, with a proposed construction cost of **\$1,793,432**.

The total cost for the project is now **\$1,910,682.00**, including administrative, engineering, and construction costs.

### **Attached to this report are:**

1. A detailed cost breakdown from Darnell Construction.
2. Photographs of the lift station in its current condition.
3. Images depicting the extent of flooding during the 2018 flood event.

### **Conclusion:**

The City of Sonora is committed to addressing the risks posed by the damaged lift station and ensuring the reliability of wastewater management for our community. The relocation and



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reconstruction of this essential infrastructure will prevent future flood-related failures and protect the businesses and residents who rely on this service.

The City, alongside EHT Engineering Services, Public Management, and Darnell Construction, is working diligently to complete this project efficiently and in compliance with all regulatory guidelines.

Respectfully submitted,

  
Arturo Fuentes  
City Manager

SONORA

CITY OF SONORA

# PROJECT COST BREAKDOWN FROM DARNELL CONSTRUCTION

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## BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

### ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to: **City of Sonora**  
**201 E Main Street**  
**Sonora, Texas 76950**

**Project Name: Sewer Collection System Improvements**

**Project Number: 8189**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

### ARTICLE 2—ATTACHMENTS TO THIS BID

- 2.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
  - B. List of Proposed Subcontractors;
  - C. List of Proposed Suppliers;
  - D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
  - E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
  - F. Required Bidder Qualification Statement with supporting data; and

### ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

3.01 *Unit Price Bids*

- A. Bidder will perform the following Work at the indicated unit prices:

BASE BID				
Item No.	Estimated Quantity	Description and Unit Price (Price to be written in words)	Unit Price	Total Amount
1	1 LS	Mobilization, bonds and insurance (not to exceed 5 percent of bid) for <u>Seventy Eight Thousand</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>78,000<sup>00</sup></u>	<u>\$ 78,000<sup>00</sup></u>

Item No.	Estimated Quantity Total	Description and Unit Price (Price to be written in words)	Unit Price	Total Amount
2	1 LS	Furnish and install Traffic Control Plan (TCP), complete and in place, for <u>Two Thousand Five Hundred Forty</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>2,440<sup>00</sup></u>	<u>2,440<sup>00</sup></u>
3	1 LS	Furnish and install Stormwater Pollution Prevention Plan (SWPPP), complete and in place, for <u>Two Thousand Six Hundred Forty</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>2,640<sup>00</sup></u>	<u>2,640<sup>00</sup></u>
4	3,340 LF	Furnish and install Trench Safety System Plan (TSSP) (depths greater than 5 feet) all related appurtenances, as shown and as specified, complete and in place, for <u>Seven</u> Dollars and <u>Zero</u> Cents per linear foot.	<u>7<sup>00</sup> / LF</u>	<u>23,380<sup>00</sup></u>
<b>NORTHEAST LIFT STATION (NELS)</b>				
5	1 LS	Furnish and install Northeast Lift Station (NELS), including wet well, pumps, davit crane, valve vault, discharge piping, valves, combination air/vacuum relief valve assembly, electrical, controls, site paving, startup, training, O&M manuals, and all related appurtenances, as shown and as specified, complete and in place, for <u>Two Hundred Thirty One Thousand Seven Hundred Fifty</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>231,750<sup>00</sup></u>	<u>231,750<sup>00</sup></u>
6	300 LF	Furnish and install 1.5" HDPE DR17 Sewer Force Main Line, all related appurtenances, as shown and as specified, complete and in place, for <u>Sixty Eight</u> Dollars and <u>Zero</u> Cents per linear foot.	<u>68<sup>00</sup> / LF</u>	<u>20,400<sup>00</sup></u>
<b>NORTHWEST LIFT STATION (NWLS)</b>				
7	1 LS	Furnish and install Northwest Lift Station (NWLS), including wet well, pumps, davit crane, valve vault, discharge piping, valves, combination air/vacuum relief valve assembly, electrical, controls, site paving, startup, training, O&M manuals, and all related appurtenances, as shown and as specified, complete and in place, for <u>Three Hundred Three Thousand Four Hundred Fifty</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>303,450<sup>00</sup></u>	<u>303,450<sup>00</sup></u>
8	1,460 LF	Furnish and install 3" HDPE DR17 Sewer Force Main Line, all related appurtenances, as shown and as specified, complete and in place, for <u>Eighty Four</u> Dollars and <u>Zero</u> Cents per linear foot.	<u>84<sup>00</sup> / LF</u>	<u>122,640<sup>00</sup></u>

Item No.	Estimated Quantity Total	Description and Unit Price (Price to be written in words)	Unit Price	Total Amount
<b>TRES AMIGOS GRINDER LIFT STATION (TAGLS)</b>				
9	1 LS	Furnish and install Tres Amigos Grinder Lift Station (TAGLS), including wet well, pumps, discharge piping, valves, electrical, controls site paving, and all related appurtenances, as shown and as specified, complete and in place, for <u>one</u> <u>Hundred Fifty Three Thousand Five Hundred</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>153,500<sup>00</sup></u>	<u>\$ 153,500<sup>00</sup></u>
10	235 LF	Furnish and install 1.25" HDPE DR17 Sewer Force Main Line, all related appurtenances, as shown and as specified, complete and in place, for _____ <u>Sixty Eight</u> Dollars and <u>Zero</u> Cents per linear feet.	<u>\$ 68<sup>00</sup> /LF</u>	<u>\$ 15,900<sup>00</sup></u>
<b>SOUTH LIFT STATION (SLS)</b>				
11	1 LS	Furnish and install South Lift Station (SLS), including wet well, pumps, davit crane, valve vault, discharge piping, valves, combination air/vacuum relief valve assembly, electrical, controls, site paving, fencing, startup, training, O&M manuals, and all related appurtenances, as shown and as specified, complete and in place, for <u>Five Hundred</u> <u>Five Thousand Forty</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>505,040<sup>00</sup></u>	<u>\$ 505,040<sup>00</sup></u>
12	830 LF	Furnish and install 4" HDPE DR17 Sewer Force Main Line, all related appurtenances, as shown and as specified, complete and in place, for _____ <u>Seventy Five</u> Dollars and <u>Zero</u> Cents per linear feet.	<u>\$ 75<sup>00</sup> /LF</u>	<u>\$ 62,250<sup>00</sup></u>
13	515 LF	Furnish and install 6" SCR-35 PVC Gravity Sewer Line, all related appurtenances, as shown and as specified, complete and in place, for _____ <u>Two Hundred</u> Dollars and <u>Thirty</u> Cents per linear feet.	<u>\$ 230<sup>00</sup> /LF</u>	<u>\$ 118,450<sup>00</sup></u>
14	3 EA	Furnish and install 4' Diameter Fiberglass Manhole, all related appurtenances, as shown and as specified, complete and in place, for <u>Twelve</u> <u>Thousand Nine Hundred</u> Dollars and <u>Twenty Six</u> Cents per each.	<u>\$ 2,936<sup>00</sup> /EA</u>	<u>\$ 38,808<sup>00</sup></u>

Item No.	Estimated Quantity Total	Description and Unit Price (Price to be written in words)	Unit Price	Total Amount
15	50 LF	Furnish and install 12" DR18 C900 PVC Water Main Relocation, all related appurtenances, as shown and as specified, complete and in place, for <u>Two Hundred Twenty Five</u> Dollars and <u>Zero</u> Cents per linear foot.	\$ <u>225</u> <sup>00</sup> /LF	\$ <u>11,250</u> <sup>00</sup>
16	1 EA	Furnish and install 1" HDPE Water Service Line and Yard Hydrant Assembly, including tap, valves, meter box, and related assemblies, as shown and as specified, complete and in place, for <u>One Thousand Eight Hundred</u> Dollars and <u>Zero</u> Cents per each.	\$ <u>1,800</u> <sup>00</sup> /EA	\$ <u>1,800</u> <sup>00</sup>
17	345 SY	Furnish and install Gravel Pavement, and all related appurtenances, as shown and as specified, complete and in place, for <u>Sixty Six</u> Dollars and <u>Zero</u> Cents per square yard.	\$ <u>66</u> <sup>00</sup> /SY	\$ <u>22,770</u> <sup>00</sup>
18	167 SY	Furnish and install Asphalt Pavement, and all related appurtenances, as shown and as specified, complete and in place, for <u>Fifty Two</u> Dollars and <u>Zero</u> Cents per square yard.	\$ <u>52</u> <sup>00</sup> /SY	\$ <u>8,684</u> <sup>00</sup>
19	1 LS	Demolition of existing lift station and site restoration, as shown and as specified, complete and in place, for <u>Eleven Thousand Four Hundred</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>11,400</u> <sup>00</sup>	\$ <u>11,400</u> <sup>00</sup>
20	1 LS	Remove existing manholes and abandon existing sewer lines (including grout fill), as shown and as specified, complete and in place, for <u>Ten Thousand</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>10,000</u> <sup>00</sup>	\$ <u>10,000</u> <sup>00</sup>
21	1 LS	Furnish and install Bypass Pumping, as shown and as specified, for <u>Forty Three Thousand Eight Hundred</u> Dollars and <u>Zero</u> Cents per lump sum.	<u>43,800</u> <sup>00</sup>	\$ <u>43,800</u> <sup>00</sup>
TOTAL BASE BID (Items 1 thru 21)			\$ <u>1,793,432</u> <sup>00</sup>	

8. Bidder acknowledges that:

- Each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
- Estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

PHOTOGRAPH OF THE AREA WHERE THE LIFT STATION IS UNDERWATER





CURRENT PHOTOGRAPH OF FLOOD DAMAGED LIFT STATION

