

OPINION OF PROBABLE COST

Ector County ISD
6" Force Main from Knox Campus to Odessa
Phase 1



PARKHILLSMITH&COOPER

Parkhill, Smith & Cooper, Inc
4222 85th Street
Lubbock, Texas 79423

Item No.	Description	Unit	Quantity	Unit Price	Extension
1.	Contractor Mobilization/Bonds/Overhead	E.A.	1	\$130,000.00	\$130,000
New Transmission Line from Knox to Cavazos					
2.	Manholes (0-8' Depth)	E.A.	3	\$4,500.00	\$13,500
3.	Lift Station	L.S.	1	\$150,000.00	\$150,000
4.	6" Force Main	L.F.	10,500	\$35.00	\$367,500
5.	12" Steel Casing in bore	L.F.	450	\$150.00	\$67,500
6.	Electrical	L.S.	1	\$50,000.00	\$50,000
7.	6' Chain Link Fence for Lift Station	L.S.	200	\$35.00	\$7,000
8.	6" Ductile Iron Fittings	TON	1.00	\$12,000.00	\$12,000
9.	6" Gate Valve & Box	EA	11	\$1,500.00	\$16,500
New Transmission Line from Cavazos to Kellus Turner					
10.	Manholes (0-8' Depth)	E.A.	3	\$4,500.00	\$13,500
11.	Lift Station	L.S.	1	\$150,000.00	\$150,000
12.	6" Force Main	L.F.	10,800	\$35.00	\$378,000
13.	12" Steel Casing in bore	L.F.	770	\$150.00	\$115,500
14.	Electrical	L.S.	1	\$50,000.00	\$50,000
15.	6' Chain Link Fence for Lift Station	L.S.	200	\$35.00	\$7,000
16.	6" Ductile Iron Fittings	TON	1.00	\$12,000.00	\$12,000
17.	6" Gate Valve & Box	EA	11	\$1,500.00	\$16,500
New Transmission Line from Kellus Turner to Odessa Tie In					
18.	Manholes (0-8' Depth)	E.A.	3	\$4,500.00	\$13,500
19.	Lift Station	L.S.	1	\$150,000.00	\$150,000
20.	6" Force Main	L.F.	21,000	\$35.00	\$735,000
21.	12" Steel Casing in bore	L.F.	1,425	\$150.00	\$213,750
22.	Electrical	L.S.	1	\$50,000.00	\$50,000
23.	6' Chain Link Fence for Lift Station	L.S.	200	\$35.00	\$7,000
24.	6" Ductile Iron Fittings	TON	1.00	\$12,000.00	\$12,000
25.	6" Gate Valve & Box	EA	21	\$1,500.00	\$31,500
SubTotal Construction Items					\$2,769,250
Contingency (12%)					\$332,300
Opinion of Total Construction Cost					\$3,101,550
Engineering					\$286,600
Ector County Pipeline Agreement**					\$77,000
Surveying					\$92,000
Testing/Geotech					\$90,000
RPR*					\$130,000

TOTAL OPINION OF PROBABLE CONSTRUCTION COST **\$3,777,150**

This Opinion of Probable Cost was prepared by Kori E. Welch, P.E. # 111781, firm No. 560, and shall not be used for construction permitting or other construction purposes.

*RPR fee based upon average of 4 half days per week Inspection for 12 Month Construction Time Period.

Forced Sewer Solution for new west side elementary campuses AND Cavazos elementary:

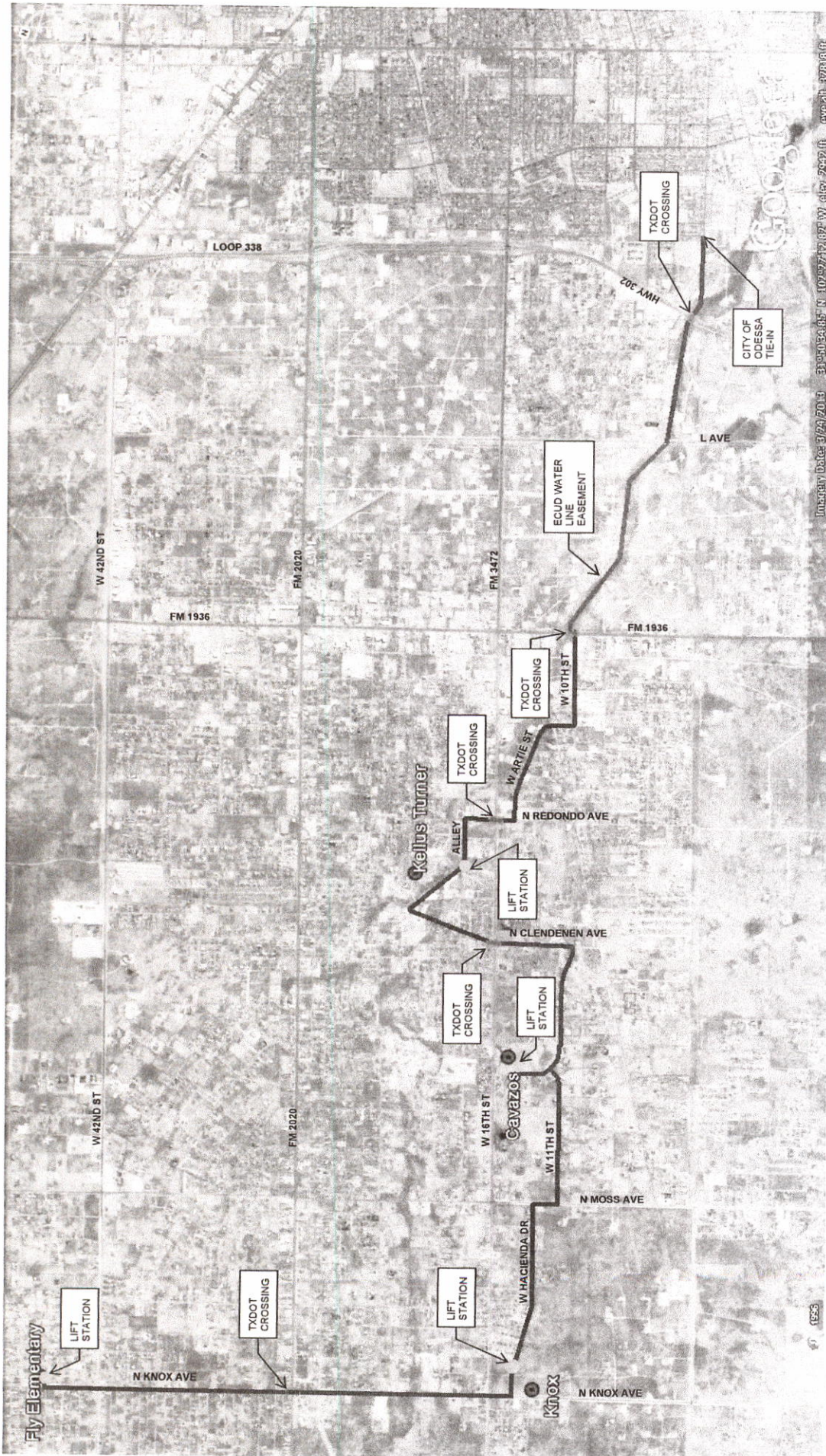
An unanticipated change to the flood plain in West Odessa has the design team investigating alternate solutions for the sanitary sewer system. In short, this change to the flood plain demanded a new solution to the original sewer design (State does not allow a drain field in the flood plain). The new study involves the extension of our west side campus sewer systems to the existing City of Odessa system. An exciting component of the design would be the elimination of the need for sewer processing plants at Cavazos and the two new elementary schools.

We have received detailed information regarding the new sanitary sewer system extension. The engineers have received verbal approval to allow ECISD to utilize existing right-of-ways from all parties to construct the new sewer line. The approximate length of the sewer extension would be 7.6 miles and the engineered size is 6". The project itself will be broken into two major phases (depending on funding). Phase-One would be the construction of the sewer line between the two new elementary schools and Cavazos Elementary. Phase two would be the construction of the sewer line connecting Fly elementary to the new infrastructure. We are also recommending we consider these project(s) as a separate "bids". This will provide a level of control needed on both the construction as well as the procurement of services.

The anticipated cost is 3.75 million for Phase One and an additional 1.4 million for Phase Two. Though costly, there are a multitude of long term benefits for ECISD, including:

1. Reduction of man-hours/overtime needed to maintain and monitor ALL the sewer processing plants, seven days a week, 365 days a year (as stipulated in our State permits).
2. ECISD will no longer be under State regulations regarding the operations of a sewer processing plant in the State of Texas. These regulation includes, but not limited to, monthly lab analysis and reports, flow metering and documentation (seven days a week), inspections, both planned and unplanned and review of existing permits, recommendations for improvements and expansion.
3. The real possibility of fines or orders given to suspend sewer plant operations due to permit violations.
4. Future cost to replace original plants at Fly and Cavazos elementary (as they are the 23 years old).
5. The need to procure additional land for the new construction to allow for the required drain field site associated with the originally planned sewer plants.
6. The cost to construct larger processing facilities than originally planned due to changes in the permitting requirements.

The financial team and the Superintendent's Leadership Team have been included in this investigation and recommendation. The funding source would be a new budget set up for this specific purpose and the project would also be competitively bid under a unique contractual obligation. We would like to recommend funding Phase One prior to the overall bond construction and delay funding Phase two until we have the majority of the projects bid and money designated (winter 2014). Do not hesitate to call David Finley if you have any questions or would like more detailed information.



Proposed Date: 3/24/2013 3:50:34.85 N 102:37:12.127 W elev: 2642 ft eye alt: 3781.8 ft

PARKHILLSMITH & COOPER



ECTOR COUNTY ISD
FORCE MAIN OPTION B

6" FORCE MAIN	14,500 LF (2.75 MI)
LIFT STATION	10,500 LF (1.99 MI)
TXDOT CROSSING	10,800 LF (2.05 MI)
ECUD EASEMENT	21,000 LF (3.96 MI)
FLY TO KNOX	
KNOX TO CAVAZOS	
CAVAZOS TO KELLUS TURNER	
KELLUS TURNER TO ODESSA	

Finley, David

From: Dan Hart <DHart@team-psc.com>
Sent: Monday, November 25, 2013 3:00 PM
To: Finley, David
Cc: Brian Stephens
Subject: ECISD.Wastewater Direction Follow Up.Cavazos or no
Attachments: EC ISD Route Map.pdf; Ector County ISD EOPC.pdf; PIPELINE AGREEMENT 2012 revision 6-25-2012 \$250.00 Agreement Fee.doc

It looks like (see below) the \$3.3M options does not include Cavazos, while the \$3.7M option does. Brian can correct me if I'm misunderstanding.

Dan Hart

Firm Principal

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From: Dan Hart
Sent: Thursday, November 14, 2013 3:41 PM
To: David Finley (david.finley@ectorcountyisd.org)
Subject: ECISD.Wastewater Direction Follow Up

Hi David,

Give me a call when you've had a chance to digest. I'd like to discuss your thoughts on direction and what we need to do to get this started.

Dan Hart

Firm Principal

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From: Brian Stephens
Sent: Wednesday, November 13, 2013 12:02 PM
To: Hector De Santiago
Cc: Jay Edwards; Dan Hart; Kendra Hanfeld; Alan Holly; Kori Welch
Subject: RE: Wastewater Direction Follow Up

All,

Want to give you an update on the Wastewater Options for ECISD. In the past couple of weeks we have met with and or talked to City of Odessa, Ector County, Ector County Utility District, TXDOT and LCA to gather all of the information that we can. We have assembled a possible Force Main route that would minimize pavement repair, and that would stay in existing ROW's and easements so that no land acquisition would be required.

Option #1 Force Main to Odessa

- PSC met with City of Odessa staff on 10/30 to discuss options. City of Odessa will agree to take sewage at the intersection of 3rd street and Veneta avenue (just East of Loop 302) in a manhole along their 24" sanitary sewer interceptor.
- City of Odessa will charge ECISD based upon quantity and quality of the sewage (Thomas Kerr with City is still working on potential disposal cost).

- PSC met with Ector County officials on Nov 6th. County officials are ok with the project, provided we follow their pipeline agreement/rules (See attached) and we pay the permit fee of \$30/Rod which would equate to approximately \$52,000 which we included in the EOPC.
- Please find attached Proposed FM Route (See attached PDF)
 - Highlighted Route pumps Knox flow to Kellus Turner site.
 - Kellus Turner Lift Station then pumps everything to Odessa.
 - Total Force Main Length is approximately 7.6 Miles. Size of FM would be 6".
 - Route Utilizes County Right of Way and Ector County Utility District (ECUD) Right of Way.
 - It does not appear that any land acquisition will be required.
 - TXDOT is ok with Route, County is ok with Route, ECUD board will meet next week to consider allowing us to use their utility easement between FM 1936 and Loop 302 (See highlighted area in PDF).
- Estimated cost will be \$3,318,850 (Without Cavazos)
- Estimated cost will be \$3,750,000 (With Cavazos)

Option #2 Treatment

- KT will be pumped to Knox for Treatment.
- Cannot use most of the school grounds for irrigation of treated effluent per TCEQ.
- Can use package WWTP & GST or Lagoon Pond System for treatment options.
- Estimated cost will be \$2,800,000 to \$3,000,000.
- Will Need 35-40 acres of additional land acquisition at Knox site for WWTP and disposal site.

Hope this helps. Let me know if questions. Force Main option is dependent upon if the ECUD will allow us to use their existing utility easement.

Brian

Brian M. Stephens, P.E.

Senior Engineer



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David,
 I am getting an updated version of the opinion of probable costs to reflect the 3,750,000 costs. I am anticipating receiving the info this week.
 — David

Information included in previous updates to the Board
 — DJ