



# 2024 WATER MASTER PLAN

Green Valley Special Utility District



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# Table of Contents

TABLE OF CONTENTS .....	2
LIST OF TABLES .....	4
LIST OF EXHIBITS.....	4
1.0 INTRODUCTION AND BACKGROUND .....	5
1.1 2014 WATER MASTER PLAN.....	5
1.2 CHANGES SINCE 2014.....	5
2.0 WATER CONNECTIONS.....	8
3.0 HISTORICAL WATER CONNECTIONS AND WATER USE.....	8
4.0 PROJECTED WATER CONNECTIONS AND WATER USE .....	10
5.0 SUMMARY OF EXISTING WATER SYSTEM .....	11
5.1 EXISTING WATER SUPPLY CAPACITY AND WATER RIGHTS .....	12
5.2 PRESSURE PLANES .....	14
5.2.1 <i>Plant 1-Plant 11 Pressure Plane Description</i> .....	14
5.2.2 <i>Plant 2 Pressure Plane Description</i> .....	15
5.2.3 <i>Plant 3 Pressure Plane Description</i> .....	15
5.2.4 <i>Plant 4-Plant 12 Pressure Plane Description</i> .....	15
5.2.5 <i>Plant 5 Pressure Plane Description</i> .....	15
5.2.6 <i>Plant 14 Homestead Pressure Plane</i> .....	16
5.2.7 <i>Wells Pressure Plane (Plant 7, 8, &amp; 9) Description</i> .....	16
5.2.8 <i>Plant 10 Pressure Plane Description</i> .....	17
5.2.9 <i>1518 Tower Pressure Plane Description</i> .....	17
5.2.10 <i>Leissner School Road Pressure Plane Description</i> .....	17
5.2.11 <i>Haeckerville Pressure Plane Description</i> .....	17
5.2.12 <i>Wagner Pressure Plane Description</i> .....	17
5.2.13 <i>Damerau Tower Pressure Plane Description</i> .....	17
5.2.14 <i>Bolton Road Meter Station Pressure Plane Description</i> .....	17

5.2.15	<i>Linne Road Meter Station Pressure Plane Description</i> .....	18
6.0	TCEQ DESIGN STANDARDS.....	23
	<i>Water Treatment Plant</i> .....	23
	<i>Minimum Water Storage</i> .....	23
	<i>Minimum Pumping Capacity</i> .....	23
7.0	GVSUD DESIGN REQUIREMENTS.....	23
8.0	RECOMMENDED CAPITAL IMPROVEMENTS .....	26
8.1	PROPOSED WATER SUPPLY .....	29
9.0	CONCLUSIONS AND RECOMMENDATIONS.....	30
	APPENDIX A: EXHIBITS.....	31
	APPENDIX C: PROJECT BUDGET & DETAILED CONSTRUCTION COST ESTIMATE.....	38

## List of Tables

Table 1-1 Completed or Financed CIP projects.....	6
Table 1-2 Proposed Capital Improvements Project Status From 2014 Water Master Plan.....	7
Table 3-1 CCN Service Area Growth rate .....	9
Table 3-2 Historical water usage.....	9
Table 4-1 GVSUD projected growth.....	11
Table 5-1 Existing connections per pressure plane.....	12
Table 5-2 GVSUD available water lines by size .....	13
Table 5-3 GVSUD available water inventory.....	14
Table 5-3 GVSUD existing developments.....	18
Table 5-4 GVSUD Current Capacities .....	19
Table 5-5 GVSUD 2029 Capacity without Proposed Capital Improvements.....	20
Table 5-6 GVSUD 2029 Capacity with Proposed Capital Improvements .....	21
Table 5-7 GVSUD 2034 Capacity with Proposed Capital Improvements .....	22
Table 7-1 GVSUD Historic Water Use.....	24
Table 7-2 TCEQ vs GVSUD design criteria Current .....	25
Table 7-3 TCEQ vs GVSUD design criteria 2029 without CIP .....	25
Table 7-4 TCEQ vs GVSUD design criteria 2029 with CIP .....	25
Table 7-5 TCEQ vs GVSUD design criteria 2034 with CIP .....	26
Table 8-1 Year 2024-2029 CIP Projects .....	27

## List of Figures

Figure 3-1 GVSUD Historical Water Connections.....	10
Figure 3-2 GVSUD historical water usage .....	10
Figure 5-1 GVSUD Water Inventory and Future Demand .....	13

## List of Exhibits

Exhibit 1: Existing Pressure Planes .....	32
Exhibit 2: Proposed Capital Improvements.....	34

# 1.0 Introduction and Background

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Green Valley Special Utility District (GVSUD) has experienced steady growth since its beginnings as Green Valley Water Service Company in 1963. GVSUD currently serves 17,499 customers in Guadalupe, Comal, and Bexar Counties. In an effort to keep up with growing demands, GVSUD has authorized Utility Engineering Group (UEG) to update this Water Master Plan and provide proposed Capital Improvement Projects (CIPs) for the 5 and 10 year service horizons.

The purpose of this Master Plan is to analyze GVSUD's existing conditions, estimate future water demands, determine the necessary capital improvement projects to meet those demands, estimate proposed project costs, and serve as a guide for long-term water needs, including capital projects.

## 1.1 2014 Water Master Plan

In 2014, a water master plan was developed for GVSUD, titled "2014 Water Master Plan". At that time, the District operated on 12 pressure planes and had the following water resources:

- 3 Edwards Aquifer wells;
- 1 Trinity Aquifer well;
- Lake Dunlap WTP capacity;
- Wells Ranch Phase I & II capacity.

Table 1-1 lists the completed or in process projects from the 2024 Master Plan. Table 1-2 lists the proposed capital improvement projects from the 2014 plan and their current status. As you can see in the table we designate the project status with a F for Future, U for Underway, M for Modified, and C for Complete. The modified projects consist of updated projects that were either relocated to a different location or capacities were provided through a different project (i.e. developer driven extensions that shortened line lengths, tank locations that changed or pressure plane modifications that changed the project priority)

## 1.2 Changes Since 2014

There have been numerous changes and improvements to GVSUD's water system since 2014. The following is a list of changes made since the 2014 study:

- The East Central pressure plane was upgraded with the Linne Road meter station and the Co-op Meter station was installed. A portion of the East Central line was replaced to remove an older section of pipe.
- Plant 3 and 12 1,000,000 gallon elevated storage tanks were constructed and put into service.
- Numerous water main improvements were constructed or are currently underway.
- ARWA Phase I supply was financed and is currently being constructed.

- The Bolton Road meter station was installed and 16 inch waterline installed for distribution, eliminating a dead end line.
- Plant 11 fill line was completed and is in service.

**Table 1-1 Completed or Financed CIP projects.**

Project	Description	Total Cost
<b>Complete or In-process CIP projects to be included in Impact Fee Assessment</b>		
100	8" Pipe along Alt Hwy 90 - FM 725 to River Road	\$ 395,319.50
101	EST @ Hardy Rd and Union Wine - Plant 12	\$ 3,124,000.00
102	24" Weil Road BPS Fill Pipeline -Youngsford to Weil Rd EPS	\$ 3,788,280.01
103	Plant 1 1MG EST	\$ 2,569,654.00
104	GVSUD Take-point Meter Station at AW Texas, & 16" Pipeline	\$ 976,085.20
105	16" Pipe along Abbott Road -FM 1518 to FM 2538	\$ 667,606.87
106	Plant 11 Phase I GST & Pumps	\$ 2,231,000.00
107	Plant 11 Phase II GST and Pumps	\$ 2,514,065.18
108	830' EST @ Plant 3	\$ 3,383,500.00
109	16" Pipe Homestead Fill Line	\$ 1,232,846.00
110	Homestead EST	\$ 2,588,128.93
111	16" Pipe Hallies Ranch	\$ 412,048.99
112	Homestead GST and Pump Station	\$ 1,190,550.00
113	12" & 16" Pipe FM 725 - County Line to Schumann Beach Road	\$ 857,315.09
114	16" Pipe Bolton Road Meter Station to Lower Seguin Road/Santa Clara Road	\$ 1,972,781.00
115	16" Pipe along FM 78 - Wagner to Santa Clara Road	\$ 1,256,996.00
116	16" Pipe along Fm 725 - Zipp Road to Union Wine	\$ 1,435,065.00
117	16" Pipe along Union Wine - FM 725 to Zipp extension	\$ 1,698,654.00
118	16" Pipe along Klein Road Phase I	\$ 1,511,827.20
119	16" Pile along Klein Road Phase II	\$ 996,452.68
120	24" Pipe Green Valley Road Plant 1 to Dean Road	\$ 2,334,560.00
<b>Total Projected Cost Complete or In-process CIP projects</b>		<b>\$ 37,136,735.65</b>

**Table 1-2 Proposed Capital Improvements Project Status From 2014 Water Master Plan**

Project	Description	Status
1	16" Pipe Line along Terminal loop	F
2	24" Pipe Line that Connects Plant 1 to Plant 9	U
3	12" Pipe along Youngsford Road from Country Lane to Santa Clara	F
4	GVSUD Take-point Meter Station at Zuehl Road & IH10	M
5	16" Pipe Line Along Green Valley Road Plant 1 to Plant 2	F
6	12" Pipe from Wells to Plant 1	F
7	12" Pipe along FM 1518 from Abbott to Kusmierz	F
8	GVSUD Take-point Meter Station at Linne Road & IH10	C
9	24" Pipe Line from Wells to Plant 9 improvements	F
10	12" Pipe Line Along FM 482	F
11	24" Pipe Line IH-35 crossing	F
12	Well Side Booster Pump Station	F
13	Plant 9 improvements	F
14	830' Elevated Storage Tank at Most Western FM 78	F
15	12" Pipe Line along Marion Road from CRWA Pipe to GV Road	F
16	12" Pipe Line along Tolle Road & Country Lane	F
17	750' Elevated Storage Tank at McQueeney	F
18	12" Pipe along Schwab & Wosnig	F
19	Common Ground Storage Tank and Booster Pump Station	F
20	24" Pipe Line connects Existing Wells	F
21	750' Elevated storage Tank of Plant 10	F
22	12" Pipeline along Weil Road -BPS extension to Marion Road	U
23	Pipeline along Klein Road - FM 1044 to FM 725	C
24	830' EST @ Hardy Rd and Union Wine	C
25	Pipeline from FM 725 to CRWA Lake Dunlap WTP	M
26	16" Pipeline along FM 725 - Union Wine to Altwein	M
27	16" Weil Road BPS Fill Pipeline -Youngsford to Weil Rd EPS	C
28	830' EST @ Youngsford and Short Cut Rd	M
29	12" Pipeline along N Santa Clara Rd - Weil Rd to Gerdes Rd	CM
30	16" Pipeline along Schumann Rd -Pioneer Rd to Plant 10	F
31	16" Pipeline along Pioneer Rd (connect)	F
32	8" Pipeline along Lower Valle Ln Weir Rd to Haeckerville Rd	F
33	8" Pipeline along Lower Seguin Rd (connect)	F
34	8" Pipeline along Bolton Rd (connect)	C
35	8" Pipeline along Schmoekel Rd -Stolte Rd to Santa Clare Rd	F
36	GVSUD Take-point Meter Station at Santa Clara Rd & IH10	C

37	750' EST @ Gin Road	F
38	8" Pipeline along FM 775 - Leissner School Rd to Beutnagel Ln	F
39	12" Pipeline along Abbott Road -FM 1518 to FM 2538	MU
40	8" Pipeline along New Berlin Rd -Gable Ln to Miller Rd	F
41	8" Pipeline along Engel Rd . Green Valley Rd to Service Boundary	F
42	Plant 1- 1MG Ground Storage Tank	M
43	16" Pipeline along FM 1044 from Green Valley Rd to Youngsford	F
44	16" Pipeline along Union Wine from FM 1044 to Sunshine Lane	FM
45	16" Pipeline along Youngsford from FM 1044 to FM 725	F
46	16" Pipeline along FM 1044 from Youngsford to Wosnig Road	F
47	830' EST @ Plant 3	C
48	Trinity Well Development	M

Legend: C- completed, U-underway, F- Future work, M- Modified

20 year CIP from 2014 Plan	
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## 2.0 Water Connections

GVSUD has not experienced significant commercial growth since the 2014 study. The developments in recent years align with residential type meters in more dense developments. For simplification, all GVSUD existing and proposed water connections will be considered equal to a single-family residential meter or Equivalent Dwelling Unit (EDU).

## 3.0 Historical Water Connections and Water Use

Predicting the growth in connections is difficult due to a variety of factors. The growth and development within an area is attributed, but not limited to: the economy, housing inventory, environmental constraints, economic development incentives, regulatory authorities and roadways/mobility.

The historical connection growth and water usage for the years from 2014 to 2023 are shown in Table 3-1 and Table 3-2, respectively. The district has experienced an annual growth rate average of 5.58% and average water usage of 0.33 acre-feet/connection. For planning we utilized 0.40 AF per connection as referenced in the feasibility studies completed for the District.

**Table 3-1 CCN Service Area Growth rate**

Year	Guadalupe County Population (pop.) <sup>(1)(3)</sup>	Guadalupe County Growth (%)	GVSUD Water Service Connections <sup>(2)</sup>	GVSUD Water Service Growth (%)	Average Growth Rate (%)
2014	145,580	2.60%	10046	4.42%	3.51%
2015	149,394	2.62%	10723	6.74%	4.68%
2016	153,368	2.66%	11645	8.60%	5.63%
2017	157,368	2.61%	12329	5.87%	4.24%
2018	161,538	2.65%	13331	8.13%	5.39%
2019	166,846	3.29%	13990	4.94%	4.11%
2020	172,706	3.51%	14358	2.63%	3.07%
2021	177,036	2.51%	15273	6.37%	4.44%
2022	182,760	3.23%	16325	6.89%	5.06%
2023	188,608	3.20%	17,499	7.19%	5.20%
10-YR Average Growth			5.58%	4.19%	
(1) - Figures from 2014-2020 were collected from US Census Bureau website representing Guadalupe County					
(2) - Number of water service connections provided by GVSUD					
(3) - Population estimates from 2020-2023 are based on 2020 Census					

**Table 3-2 Historical water usage**

Year	GVSUD Water Service Connections <sup>(1)</sup>	Total Water Pumped (ac-ft) <sup>(1)</sup>	% Increase in Annual Usage	Water Usage per Connection per Year (ac-ft/yr)
2014	10046	3053	12%	0.30
2015	10723	3266	7%	0.30
2016	11645	3529	8%	0.30
2017	12329	4166	15%	0.34
2018	13331	4033	-3%	0.30
2019	13990	4293	6%	0.31
2020	14358	5307	19%	0.37
2021	15273	5503	4%	0.36
2022	16325	6243	12%	0.38
2023	17499	6417	3%	0.37
Average Water Usage (ac-ft/connection/yr)			5%	0.33
(1) Information provided by GVSUD				

Figure 3-1 displays the historical water connections for the years 2014 to 2023. An average historical growth rate of 5.58% was experienced in the past ten years. However, recent years have experienced above average growth rate, and we are seeing the average water usage per customer increase slightly from 0.31 AF/connection to 0.33 AF/connection through 2023. A conservative growth rate of 6% will be used to forecast future connections.

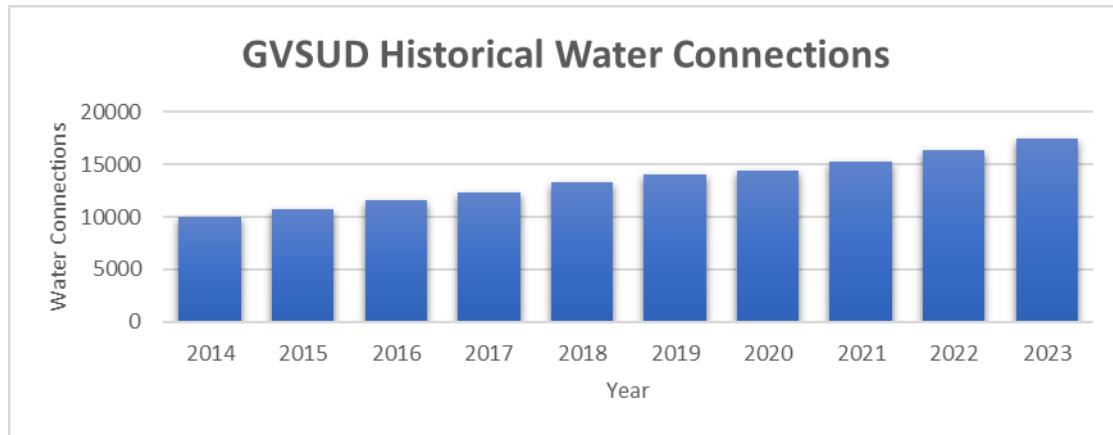


Figure 3-1 GVSUD Historical Water Connections

Figure 3-2 displays the historical water usage for the years 2014 to 2023. The average water usage of 0.33 acre-feet/connection/year.

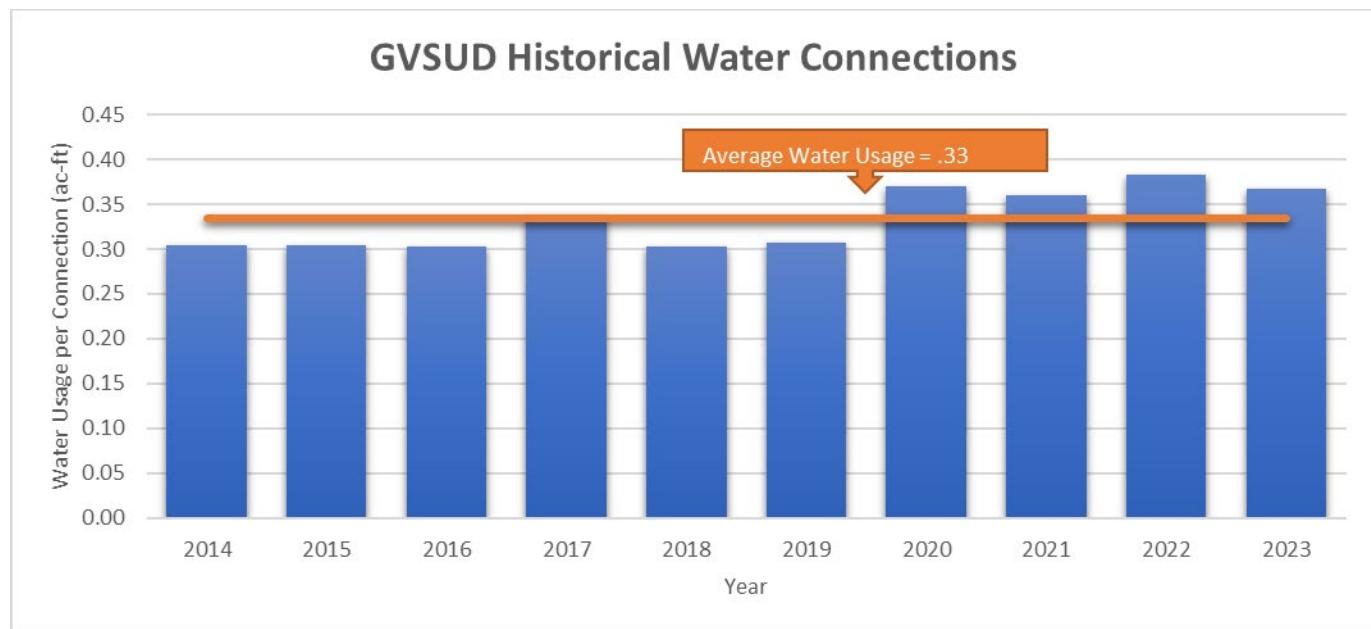


Figure 3-2 GVSUD historical water usage

## 4.0 Projected Water Connections and Water Use

Table 4-1 displays the projected the future water connections based on the 4% average annual growth along with an 6% and 8% average annual growth rate to represent accelerated growth of the GVSUD service area. Current developments underway are listed below. The future connections in conjunction with the 0.33 acre-feet/connection/year average water use was used to determine the future estimated water demand.

This data indicates a projected water demand for the year 2040 of 12,500 acre-feet, 17,280 acre-

feet, 23,743 acre-feet for the associated growth rates of 4%, 6%, and 8%, respectively.

**Table 4-1 GVSUD projected growth**

Year	Permit SubTotal	Projected Water Demand (AF)			Projected Water Connections		
		4%	6%	8%	4%	6%	8%
<b>2023</b>	11410	6417	6417	6417	17,499	17,499	17,499
<b>2024</b>	11410	6674	6802	6930	18,199	18,549	18,899
<b>2025</b>	11760	6941	7210	7485	18,475	19,662	20,411
<b>2026</b>	11628	7218	7643	8084	19,215	20,842	22,044
<b>2027</b>	11628	7507	8101	8730	19,506	22,093	23,808
<b>2028</b>	12818	7807	8587	9429	20,287	23,419	25,713
<b>2029</b>	12818	8120	9103	10183	20,594	24,824	27,770
<b>2030</b>	15003	8444	9649	10998	21,419	26,313	29,992
<b>2031</b>	15003	8782	10228	11877	21,743	27,892	32,391
<b>2032</b>	15003	9133	10841	12828	22,614	29,566	34,982
<b>2033</b>	15003	9499	11492	13854	22,956	31,340	37,781
<b>2034</b>	15003	9879	12181	14962	23,876	33,220	40,803
<b>2035</b>	15003	10274	12912	16159	24,237	35,213	44,067
<b>2036</b>	15003	10685	13687	17452	25,208	37,326	47,592
<b>2037</b>	15003	11112	14508	18848	25,589	39,566	51,399
<b>2038</b>	15003	11557	15379	20356	26,615	41,940	55,511
<b>2039</b>	15003	12019	16301	21984	27,017	44,456	59,952
<b>2040</b>	15003	12500	17280	23743	28,100	47,123	64,748

## 5.0 Summary of Existing Water System

GVSUD was divided into pressure planes based on Hydraulic Grade Lines in order to quantify the existing and projected number of connections. These areas are shown in Attachment ‘A’, Existing Pressure Planes Map. Table 5-1 summarizes the existing connections per pressure planes. As of January 2024, there are 17,499 existing connections in GVSUD’s system.

**Table 5-1 Existing connections per pressure plane**

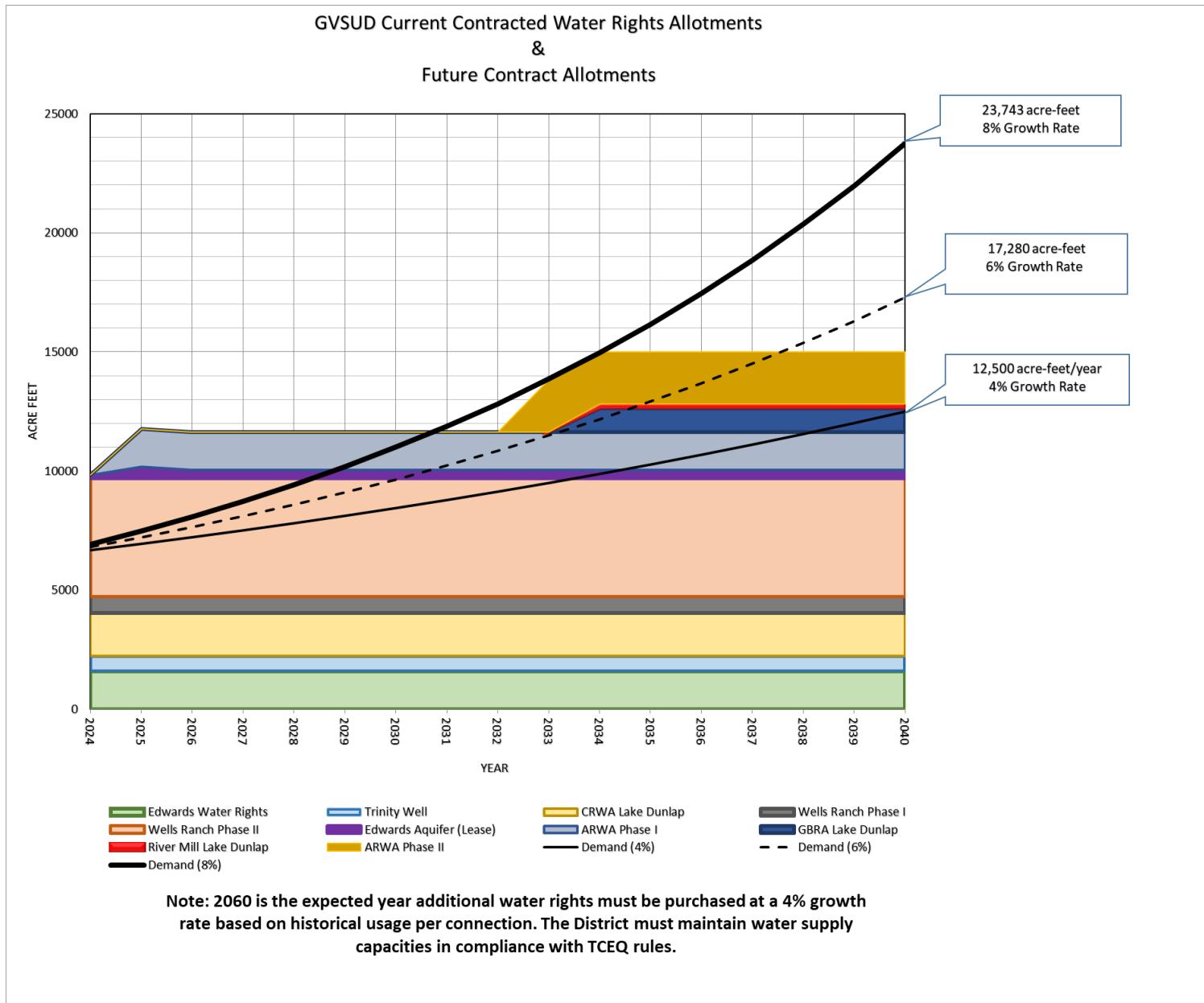
Pressure Plane	Connections	% of Total Connections	Water Source
<b>Plant 1</b>	3,313	18.93%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>Plant 2</b>	434	2.48%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>Plant 3</b>	308	1.76%	Wells Ranch
<b>Plant 4 &amp; 12</b>	5,600	32.00%	Lake Dunlap
<b>Plant 5</b>	366	2.09%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>Wells</b>	136	0.78%	EA, Trinity
<b>Plant 9</b>	2,125	12.14%	EA, Trinity
<b>Plant 10</b>	0	0.00%	Wells Ranch
<b>Plant 11</b>	313	1.79%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>1518 EST</b>	1,540	8.80%	Wells Ranch
<b>Leissner</b>	1,165	6.66%	Wells Ranch
<b>Haeckerville</b>	251	1.43%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>Wagner</b>	999	5.71%	Lake Dunlap, Wells Ranch
<b>Linne Road MS</b>	470	2.69%	Wells Ranch
<b>Homestead</b>	18	0.10%	EA, Trinity, Wells Ranch, Lake Dunlap
<b>Damerau EST</b>	451	2.58%	Lake Dunlap
<b>Bolton Road MS</b>	10	0.06%	Wells Ranch
<b>TOTAL</b>	17,499	100.00%	

## 5.1 Existing Water Supply Capacity and Water Rights

GVSUD has a diversified supply of water with contracts with various sources. These include: three Edwards Wells, a Trinity Well, Canyon Regional Water Authority (CRWA) Lake Dunlap and Wells Ranch, and Alliance Regional Water Authority water. As of 2024 GVSUD has 9,944.49 acre-feet/year in existing water rights that can currently be produced without additional infrastructure. In late 2024, the ARWA Phase I water will be delivered to GVSUD at the CRWA Lake Dunlap Plant. This will increase available inventory to 11,538.49 AF/year. Based on the 10 year historic use for the District, this allotment will serve approximately 34,965 connection, basically doubling the current connection count for the District. Figure 5-1 along with Table 5-3 provide a summary of the current water rights in relation to the projected demand. GVSUD currently has approximately 1832.812 acre-feet of Edward Aquifer well water and 656 acre-feet of Trinity Aquifer well water available for use. It is important to note that the Edwards Aquifer water is regulated by the EAA and can experience extended periods of Critical Period Management (CPM) which reduces the amount of available water to the District. We illustrate this in Table 5-3 with a 35% Critical Period Cutback. In 2023, the EAA CPM was 35.81%. These supplies are received and distributed through over 500 miles of waterline. Table 5-2 illustrates the pipe sizes and miles of lines that GVSUD owns and maintains.

**Table 5-2 GVSUD available water lines by size**

Line Size	1 inch	1.25 inch	1.5 inch	2 inch	3 inch	4 inch	6 inch
ft	230,178	3,946	111,597	423,257	10,613	564,538	271,338
Line Size	8 inch	10 inch	12 inch	16 inch	20 inch	24 inch	<b>TOTAL</b>
ft	744,933	1,293	338,408	153,590	15,415	29,483	2,898,589
miles	43.6	0.7	21.1	80.2	2.0	106.9	51.4



**Figure 5-1 GVSUD Water Inventory and Future Demand**

**Table 5-3 GVSUD available water inventory**

Source	Permitted - Contracted Amount	Critical Period Cutback (Edwards 35%)	Current or Future Production
<b>Current Rights with Capacity to Produce</b>			
Edwards 1	300	195	Current
Edwards 2	1400.812	910.5278	Current
Edwards 3	132	85.8	Current
Trinity	656	656	Current
CRWA Lake Dunlap	1800	1800	Current
Wells Ranch Ph 1	700	700	Current
Wells Ranch Ph 2	4955.68	4955.68	Current
	<b>9,944.49</b>	<b>9,303.01</b>	
<b>Future Capacity - Improvements needed to Produce</b>			
ARWA Ph 1	1594	1594	2024
ARWA Ph 2	2185	2185	2032
GBRA Dunlap	1000	1000	2035
River Mill Dunlap	190	190	2035
<b>TOTAL</b>	<b>14,913.49</b>	<b>14,082.01</b>	

## 5.2 Pressure Planes

The boundary of each pressure plane was determined from USGS topography with the help of GVSUD staff. The different water pressure planes are established based on desired minimum and maximum water pressures. The boundaries of the pressure planes are shown in Attachment 'A', GVSUD Existing Pressure Planes. Table 5-3 summarizes the equipment located in each pressure plane.

### 5.2.1 Plant 1-Plant 11 Pressure Plane Description

Plant 1-Plant 11 Pressure Plane serves the area in the northwestern part of GVSUD. This pressure plane has a hydraulic grade line of 1008 feet mean sea level (MSL). The water supply is provided by the Edwards Aquifer, the Trinity Aquifer, CRWA Lake Dunlap & Wells Ranch and ARWA in the future. The Weil Road Booster Pump station provides CRWA water and future ARWA water to this service area. This pressure plane currently serves 3,626 connections. A summary of the existing infrastructure is listed below:

#### Plant 1

- 200,000-gallon Ground Storage
- 1,000,000-gallon Elevated Storage
- 5,000-gallon Pneumatic Pressure Tank
- 3 Booster Pumps @ 450 gpm = 1,350 gpm

## Plant 11 Booster Pump Station

- 500,000-gallon Ground Storage
- 2 Booster Pumps @ 1,440 gpm = 2,800 gpm
- The booster station and GST expansion that is in design currently will add 500,000 gallons of ground storage and 2,880 gpm of pumping capacity to the area.

### 5.2.2 Plant 2 Pressure Plane Description

Plant 2 Pressure Plane serves the area in the northeastern part of GVSUD within Plant 1 Pressure Plane. This pressure plane has a hydraulic grade line of 897 feet mean sea level (MSL). The water supply is provided by Plant 1. This pressure plane currently serves 434 connections. A summary of the existing infrastructure is listed below:

#### Plant 2

- 127,000-gallon Ground Storage
- 80,000-gallon Ground Storage
- 100,000-gallon Elevated Storage
- 4 Booster Pumps @ 450 gpm = 1,800 gpm

### 5.2.3 Plant 3 Pressure Plane Description

Plant 3 Pressure Plane serves the area south of the GVSUD Headquarters to IH 10 and east to City of Seguin. The water supply is provided by the CRWA Wells Ranch and Lake Dunlap supplies. This pressure plane has a hydraulic grade line of 830 feet MSL. This pressure plane currently serves 308 connections. A summary of the existing infrastructure is listed below:

- 127,000-gallon Ground Storage
- 80,000-gallon Ground Storage
- 1,000,000-gallon Elevated Storage
- 4 Booster Pumps @ 450 gpm = 1,800 gpm

### 5.2.4 Plant 4-Plant 12 Pressure Plane Description

Plant 4-Plant 12 Pressure Plane serves the northeast GVSUD service area. The water supply is provided by the CRWA's Lake Dunlap plant. This pressure plane has a hydraulic grade line of 830 feet MSL. This pressure plane currently serves 5,607 connections. CRWA-Lake Dunlap equipment is used to fill an elevated storage tank. A summary of the existing infrastructure is listed below:

- 500,000-gallon Elevated Storage – Plant 4
- 1,000,000-gallon Elevated Storage – Plant 12
- CRWA-Lake Dunlap tanks and high service pumps

### 5.2.5 Plant 5 Pressure Plane Description

Plant 5 Pressure Plane serves the area east of East Central Special Utility District service area and southwest of GVSUD's service area. The water supply is provided by the Edwards Aquifer and piped from Plant 7, 8, & 9 as well as CRWA supplies. This pressure plane currently serves 366

connections. A summary of the existing infrastructure is listed below:

- 60,000-gallon Ground Storage
- 3,000-gallon Pneumatic Pressure Tank
- 2 Booster Pumps @ 225 gpm = 450 gpm

### 5.2.6 Plant 14 Homestead Pressure Plane

The Plant 14 Pressure Plane serves the area of Homestead and Legendary Trails in the northern part of the District. The water supply is provided by three Edwards Aquifer wells, one Trinity well and CRWA Supplies through Plant 1. This pressure plane has a hydraulic grade line of 1,110 feet MSL. This pressure plane currently serves 18 connections. A summary of the existing infrastructure is listed below:

#### Plant 14

- 100,000-gallon Ground Storage
- 300,000-gallon Elevated Storage Tank
- 3 Booster Pumps @ 600 gpm = 1,800 gpm

### 5.2.7 Wells Pressure Plane (Plant 7, 8, & 9) Description

The Wells Pressure Plane serves the area in the northwest of GVSUD's service area. The water supply is provided by three Edwards Aquifer wells and one Trinity well. This pressure plane has a hydraulic grade line of 1008 feet MSL. This pressure plane currently serves 1,771 connections. A summary of the existing infrastructure is listed below:

#### Plant 7

- 200,000-gallon Ground Storage
- 5,000-gallon Pneumatic Pressure Tank
- 2 Booster Pumps @ 800 gpm = 1,600 gpm
- 2 Booster Pumps @ 450 gpm = 900 gpm
- Well #2, 1 Well Pump @ 800 gpm
- Well #3, 1 Well Pump @ 1,600 gpm
- Well #4, 1 Well Pump @ 600 gpm

#### Plant 8

- 200,000-gallon Ground Storage
- 5,000-gallon Pneumatic Pressure Tank
- Well #1, Well Pump @ 1,200 gpm
- Well #1, 1 Booster Pump @ 800 gpm
- Well #1, 1 Booster Pump @ 450 gpm

#### Plant 9

- 200,000-gallon Ground Storage
- 80,000-gallon Ground Storage
- 300,000-gallon Elevated Storage
- 2 Booster Pumps @ 500 gpm = 1,000 gpm
- 2 Booster Pumps @ 1,000 gpm = 2,000 gpm

### 5.2.8 Plant 10 Pressure Plane Description

Plant 10 Pressure Plane is located in the southeast area of GVSUD's service area. The water supply is provided by CRWA through a take point at Leissner Booster Pump Station. Plant 10 does not currently serve any connections, but is being maintained if needed in the future. A summary of the existing infrastructure is listed below:

- (2) ea. 250,000-gallon Ground Storage
- 13,000-gallon Pneumatic Pressure Tank
- 3 Booster Pumps @ 500 gpm = 1,500 gpm

### 5.2.9 1518 Tower Pressure Plane Description

The 1518 Pressure Plane serves the southwestern GVSUD service area. The water supply is provided by the CRWA FM 1518 elevated storage tank. This pressure plane has a hydraulic grade line of 880 feet MSL. This pressure plane currently serves 1,540 connections.

### 5.2.10 Leissner School Road Pressure Plane Description

The Leissner School Road Pressure Plane serves the area southeast of GVSUD service area. The water supply is Wells Ranch water provided by the CRWA's Leissner Booster Pump Station. This pressure plane currently serves 1,165 connections.

### 5.2.11 Haeckerville Pressure Plane Description

Haeckerville Pressure Plane serves the area southwest of the Wagner service area. The water supply is provided by CRWA Wells Ranch, Lake Dunlap and future ARWA Phase I. This pressure plane currently serves 251 connections.

### 5.2.12 Wagner Pressure Plane Description

Wagner Pressure Plane serves the area southwest of the City of Marion. The area is served using CRWA's Wagner Booster Pump Station. This pressure plane has a hydraulic grade line of 880 feet MSL. This pressure plane currently serves 999 connections.

### 5.2.13 Damerau Tower Pressure Plane Description

Damerau Pressure Plane serves the northwestern GVSUD service area, within Plant 1, 2 & Weil Rd Pressure Plane. Water is provided by the CRWA elevated storage tank from Lake Dunlap. This pressure plane currently serves 451 connections.

### 5.2.14 Bolton Road Meter Station Pressure Plane Description

The Bolton Road Meter Station Pressure Plane serves the central GVSUD service area along IH 10, Water is provided by the CRWA Wells Ranch. This pressure plane currently serves 10 connections.

## 5.2.15 Linne Road Meter Station Pressure Plane Description

Linne Road Meter Station Pressure Plane serves the southcentral portion of GVSUD. This pressure plane currently serves 470 connections.

The GVSUD water system has enough capacity to meet current demands. As connections increase, the District will need to construct additional infrastructure to meet future demand as shown in this plan and associated analysis. Table 5-3 summarizes the current developments and associated service area. This is the basis for the following capacity calculations.

**Table 5-3 GVSUD existing developments**

Green Valley Special Utility District		
Developments under contract		
	# of EDU remaining	Service Area
Marion Oaks	1665	Bolton/Wagner
Dove Song	888	Wagner
Kayden Springs	655	Bolton
Ann Austin Tract	880	Plant 11
Cibolo Farms	390	Homestead/Plant 1
Grace Valley	833	Plant 11
Hild Tract	134	Plant 11
Clearwater Creek	950	1518 EST
Lily Trails	700	1518 EST
Thea Springs	99	1518 EST
Century Oaks	105	Linne Road
Voges	253	Plant 4/12
Winding Creek Ranch	966	Plant 4/12
Hilltop	219	Plant 4/12
Park Place	785	Plant 4/12
Kraft Tract	550	Plant 4/12
Avilla Homestead	289	Plant 4/12
Engel Tract	59	Plant 1
Omni Tract	50	Bolton
WBWT West End	278	Plant 4/12
JM Eagles Nest	1	Plant 1
Guadalupe Bend	1200	Plant 4/12
<b>Total</b>	<b>11949</b>	

The following tables illustrate the capacity impacts of the growth and planned CIP projects introduced in this report. Please note that this analysis was completed using only the contracts that are currently in place with no additional land developing in the system. For this reason, this plan should be monitored annually and updated periodically as additional information becomes available.

**Table 5-4 GVSUD Current Capacities**

Green Valley Special Utility District (2024) Existing Equipment									
Plane Name		Over Flow Elevation (MSL)	Connections	Booster Pump	Well Pumps	Pneumatic Pressure Tank (Gallons)	GST Capacity (Gallons)	EST Capacity (Gallons)	Total Storage (Gallons)
Plant 1		1008	3,313	3 @ 450 gpm		5,000	200,000	1,000,000	1,200,000
Plant 2			434	4 @ 450 gpm			127,000	100,000	227,000
Plant 3		830	308	4 @ 450 gpm (1,800 gpm)			127,000 80,000	1,000,000	1,207,000
Plant 4-Plant 12		830	5,600				127,000	1,500,000	1,627,000
Plant 5			366	2 @ 225 gpm 2 @ 800 gpm		3,000 5,000	60,000 200,000		60,000 200,000
Wells Pressure Plane	Plant 7		2,261		1 @ 800 gpm 1 @ 1,600 gpm 1 @ 600 gpm				
	Plant 7, Well #2								
	Plant 7, Well #3								
	Plant 7, Well #4								
	Plant 8				5,000	200,000			200,000
	Plant 8, Well #1			1 @ 800 gpm 2 @ 500 gpm (1,000 gpm)	1 @ 1,200 gpm		200,000 80,000	300,000	580,000
	Plant 9								
Plant 10			0	3 @ 500 gpm (1,500 gpm)		13,000	2 @ 250,000 (500,000)		500,000
Plant 11		1008	313	4 @ 1440 gpm (5,760 gpm)			1,000,000		1,000,000
Plant 14		1110	18						
1518 Tower		880	1,540						
Bolton Road Meter Station			10						
Leissner School Rd			1,165						
Haekerville			251						
Wagner		880	999						
Damerau Tower			451						
Linne Road Meter Station			470						
TOTAL			17,499	16,060	4,200	31,000	2,901,000	3,900,000	6,801,000
Capacity per Connection				0.92	1.86		165.78	222.87	388.65

Connection data provided by GVSUD based on January 16, 2024 status.

Plant 11 GST and Pumps are out to bid now, capacity will be available this year.

Plant 14 Tanks and Pumps are in construction now.

Table 5-4 shows the current status of capacity and service within the District. The District is performing well, however, as development continues to advance the District will need to construct additional infrastructure capacity to maintain compliance with TCEQ regulations for public water systems and maintain overall operational capacity to provide continuous and adequate service to the rate payers. Table 5-5 illustrates the District status if the referenced developments deliver connections as intended and capacity is not added to the system.

**Table 5-5 GVSUD 2029 Capacity without Proposed Capital Improvements**

Green Valley Special Utility District (2029) Existing Equipment									
Plane Name		Over Flow Elevation (MSL)	Connections	Booster Pump	Well Pumps	Pneumatic Pressure Tank (Gallons)	GST Capacity (Gallons)	EST Capacity (Gallons)	Total Storage (Gallons)
Plant 1		1008	4,113	3 @ 450 gpm		5,000	200,000	1,000,000	1,200,000
Plant 2			634	4 @ 450 gpm			127,000	100,000	227,000
Plant 3		830	808	4 @ 450 gpm (1,800 gpm)			127,000 80,000	1,000,000	1,207,000
Plant 4-Plant 12		830	8,347				127,000	1,500,000	1,627,000
Plant 5			366	2 @ 225 gpm 2 @ 800 gpm		3,000 5,000	60,000 200,000		60,000 200,000
Wells Pressure Plane	Plant 7		2,261		1 @ 800 gpm 1 @ 1,600 gpm 1 @ 600 gpm				
	Plant 7, Well #2								
	Plant 7, Well #3								
	Plant 7, Well #4								
	Plant 8			1 @ 800 gpm	5,000	200,000			200,000
	Plant 8, Well #1			2 @ 500 gpm (1,000 gpm)	1 @ 1,200 gpm		200,000 80,000	300,000	580,000
	Plant 9								
Plant 10			0	3 @ 500 gpm (1,500 gpm)		13,000	2 @ 250,000 (500,000)		500,000
Plant 11		1008	1,820	4 @ 1440 gpm (5,760 gpm)			1,000,000		1,000,000
Plant 14		1110	372	3 @ 600 gpm (1,800 gpm)			100,000	300,000	400,000
1518 Tower		880	2,439						
Bolton Road Meter Station			1,725						
Leissner School Rd			1,165						
Haackerville			251						
Wagner		880	1,943						
Damerau Tower			451						
Linne Road Meter Station			1,075						
TOTAL			27,770	17,860	4,200	31,000	3,001,000	4,200,000	7,201,000
Capacity per Connection				0.64	1.86		108.07	151.24	259.31

Connection data provided by GVSUD based on January 16, 2024 status.

Table 5-6 illustrates the District status if the referenced developments deliver connections as intended and capacity is shown in the 5 year CIP plan is added to the system as intended.

**Table 5-6 GVSUD 2029 Capacity with Proposed Capital Improvements**

Green Valley Special Utility District (2029) Proposed CIP & Development Growth									
Plane Name		Over Flow Elevation (MSL)	Connections	Booster Pump	Well Pumps	Pneumatic Pressure Tank (Gallons)	GST Capacity (Gallons)	EST Capacity (Gallons)	Total Storage (Gallons)
Plant 1		1008	4,113	3 @ 450 gpm		5,000	200,000	1,000,000	1,200,000
Plant 2			634	4 @ 450 gpm			127,000	100,000	227,000
Plant 3		830	808	4 @ 750 gpm (3,000 gpm)			500,000	1,000,000	1,500,000
Plant 4-Plant 12		830	8,347				127,000	1,500,000	1,627,000
Plant 5			366	2 @ 225 gpm		3,000	60,000		60,000
Wells Pressure Plane	Plant 7		2,261	2 @ 800 gpm		5,000	200,000		200,000
	Plant 7, Well #2				1 @ 800 gpm				
	Plant 7, Well #3				1 @ 1,600 gpm				
	Plant 7, Well #4				1 @ 600 gpm				
	Plant 8					5,000	200,000		200,000
	Plant 8, Well #1			1 @ 800 gpm	1 @ 1,200 gpm				
	Plant 9			2 @ 500 gpm (1,000 gpm)			200,000	1,000,000	1,280,000
							80,000		
Plant 10			0	3 @ 500 gpm (1,500 gpm)		13,000	2 @ 250,000 (500,000)		500,000
Plant 11		1008	1,820	4 @ 1440 gpm (5,760 gpm)					1,000,000
Plant 14		1110	372	3 @ 600 gpm (1,800 gpm)			100,000	300,000	400,000
Plant 15		830		4 @ 750 gpm (3,000 gpm)			500,000	1,000,000	1,500,000
Plant 16				4 @ 750 gpm (3,000 gpm)			500,000	1,000,000	1,500,000
1518 Tower		880	2,439						
Bolton Road Meter Station			1,725						
Leissner School Rd			1,165						
Haekerville			251						
Wagner		880	1,943						
Damerau Tower			451						
Linne Road Meter Station			1,075						
<b>TOTAL</b>			<b>27,770</b>	<b>25,060</b>	<b>4,200</b>	<b>31,000</b>	<b>4,294,000</b>	<b>6900000</b>	<b>11,194,000</b>
<b>Capacity per Connection</b>				0.90	1.86		154.63	248.47	403.10

Connection data provided by GVSUD based on January 16, 2024 status.

Table 5-7 illustrates the District status if the referenced developments deliver connections as intended and capacity is shown in the 10 year CIP plan is added to the system as intended.

**Table 5-7 GVSUD 2034 Capacity with Proposed Capital Improvements**

Green Valley Special Utility District (2034) Proposed CIP & Development Growth									
Plane Name		Over Flow Elevation (MSL)	Connections	Booster Pump	Well Pumps	Pneumatic Pressure Tank (Gallons)	GST Capacity (Gallons)	EST Capacity (Gallons)	Total Storage (Gallons)
Plant 1		1008	4,913	3 @ 450 gpm		5,000	200,000	1,000,000	1,200,000
Plant 2			934	4 @ 450 gpm			127,000	100,000	227,000
Plant 3		830	1,908	4 @ 750 gpm <b>(3,000 gpm)</b>			500,000	1,000,000	1,500,000
Plant 4-Plant 12		830	10,640				127,000	1,500,000	1,627,000
Plant 5			616	2 @ 225 gpm		3,000	60,000		60,000
Wells Pressure Plane	Plant 7		2,461	2 @ 800 gpm		5,000	700,000	500,000	1,200,000
	Plant 7, Well #2			4 @ 500 gpm <b>(2,000 gpm)</b>	1 @ 800 gpm				
	Plant 7, Well #3				1 @ 1,600 gpm				
	Plant 7, Well #4				1 @ 600 gpm				
	Plant 8					5,000	200,000		200,000
	Plant 8, Well #1			1 @ 800 gpm	1 @ 1,200 gpm		200,000		
	Plant 9			2 @ 500 gpm <b>(1,000 gpm)</b>			80,000	1,000,000	1,280,000
Plant 10			0	3 @ 500 gpm <b>(1,500 gpm)</b>		13,000	2 @ 250,000 (500,000)		500,000
Plant 11		1008	2,724	4 @ 1440 gpm <b>(5,760 gpm)</b>					1,000,000
Plant 14		1110	568	3 @ 600 gpm <b>(1,800 gpm)</b>			100,000	300,000	400,000
Plant 15		830	1,425	4 @ 750 gpm <b>(3,000 gpm)</b>			500,000	1,000,000	1,500,000
Plant 16			950	4 @ 750 gpm <b>(3,000 gpm)</b>			500,000	1,000,000	1,500,000
Plant 17			650	4 @ 750 gpm <b>(3,000 gpm)</b>			500,000	1,000,000	1,500,000
1518 Tower		880	3,289						
Bolton Road Meter Station			2,280						
Leissner School Rd			1,665						
Haeckerville			251						
Wagner		880	2,653						
Damerau Tower			451						
Linne Road Meter Station			2,425						
<b>TOTAL</b>			40,803	30,060	4,200	31,000	5,294,000	8400000	13,694,000
<b>Capacity per Connection</b>				0.74	1.71		129.75	205.87	335.61

Connection data provided by GVSUD based on January 16, 2024 status.

## 6.0 TCEQ Design Standards

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The Texas Commission on Environmental Quality (TCEQ) established minimum design standards (30 TAC §290.45) that ensure a water system is capable of meeting the demands of its customers. Additionally, TCEQ does not include consideration for additional fire flows that may be necessary for future development in their minimum requirements. These standards must be met to be compliant within the state.

### Water Treatment Plant

- Treatment capacity for a water treatment plant is 0.6 gpm/connection (must be greater than the anticipated maximum daily demand)

### Minimum Water Storage

- Total Storage: 200 gallons/connection
- Elevated Storage: 100 gallons/connection
- Pressure Tank: 20 gallons/connection (in lieu of elevated storage up to 2,500 connections)

### Minimum Pumping Capacity

- If less than 200 gallons/connection of elevated storage is provided, two or more pumps with a total capacity of 2.0 gpm/connection, or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demands with the largest pump out of service, whichever is less.
- If at least 200 gallons/connection of elevated storage is provided: two or more pumps with a minimum capacity of 0.6 gpm/connection.

## 7.0 GVSUD Design Requirements

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UEG used historical water usage records to establish design requirements to ensure that minimum service equals or exceeds the minimum requirements set by TCEQ and meets or exceeds GVSUD future water demands.

As a whole, GVSUD design requirements exceed the minimum criteria established by TCEQ. GVSUD current water system is in full compliance with TCEQ and is able to meet current demands in the system. GVSUD's historical water usage records are found in Table 7-1.

**Table 7-1 GVSUD Historic Water Use**

Year	GVSUD Water Service Connections	Daily Avg. Pumped (gpd)	Daily Avg. Pumped per Conn. (gpd/Conn)	Average Daily Water Usage per Conn. (gpm/Conn)	Peak Hour Water Usage per Conn. (gpm/Conn)*
2014	10046	2725543	271.31	0.19	0.8
2015	10723	2915660	271.91	0.19	0.8
2016	11645	3150712	270.56	0.19	0.8
2017	12329	3697022	299.86	0.21	0.8
2018	13331	3686104	276.51	0.19	0.8
2019	13990	3832543	273.95	0.19	0.8
2020	14358	4737784	329.98	0.23	0.9
2021	15273	4912762	321.66	0.22	0.9
2022	16325	5573391	341.40	0.24	0.9
2023	17499	5728728	327.37	0.23	0.9
Average			298.45	0.21	0.8

\*Based on a Peak Factor of 4

Table 7-1 shows the average daily and peak hour water usage. The last 10 years of data was used to represent modern operating conditions. The average water used for the past 10 years is 0.21 gpm/connection, the average daily demand is 298.45 gpd/connection is down from 304.80 gpd/connection in 2014, and the peak hour demand is 0.8 gpm/connection. These values were used in determining GVSUD's design requirements.

Calculations include only infrastructure and capacity owned and operated by GVSUD. Including CRWA infrastructure would provide a more accurate portrayal of the system in place, however we did not include their capacities since TCEQ views this as unowned capacity and therefore, does not give any credit toward that capacity in the overall system. Water production capacity is designed to meet historical peak daily demand. System storage is designed and based on average daily demand. Annual evaluations of the average daily demand and peak daily demand of water flows should be conducted based on daily records of pumping for the calendar year. GVSUD design requirements for the average and peak flows are as follows:

- Average Daily Demand: 343 gpd/connection
- Peak Daily Demand: 686 gpd/connection
- Peak Hour Demand: 0.8 gpm/connection + Fire Flow

The average daily demand of 343 gpd/connection is based on the 10-year historic average of 298.45 gpd/connection with an additional 15-percent safety factor. The maximum peak daily demand of 686 gpd/connection is based on the average maximum with a peak factor of 2, the industry standard for an average water system.

The water supply capacity of 0.24 gpm/connection was determined by taking the average daily demand and adding an additional 15-percent. The daily average pumped for each year of 343 gpd/connection represents full 24 hours of storage capacity. This value was halved to allow for 12

hours of total storage capacity. The same ratio that TCEQ established in their design criteria was used to calculate ground and elevated storage. The elevated storage requirement from TCEQ was half of the total storage. Therefore, a total storage of 172 gallons/connection and elevated storage of 86 gallons/connection of elevated storage was established. Table 7-2 summarizes and compares the requirements between TCEQ and GVSUD. The more stringent value will be used for future capacity criteria.

**Table 7-2 TCEQ vs GVSUD design criteria Current**

Design Criteria 2024			
Description	TCEQ (minimum)	Green Valley SUD (existing)	Green Valley SUD (demand)
Water Rights (acre-feet/connection/year)		0.85	0.33
Water Plant Supply (gpm/connection)	0.6	1.86	0.24
Total Storage (gallons/connection)	200	388.65	172
Ground Storage (gallons/connection)	-	165.78	86
Elevated Storage (gallons/connection)	100	222.87	86
Pumping (gallons/connection)	0.6	0.92	0.8

**Table 7-3 TCEQ vs GVSUD design criteria 2029 without CIP**

Design Criteria 2029 without CIP Projects Implemented			
Description	TCEQ (minimum)	Green Valley SUD (existing)	Green Valley SUD (demand)
Water Rights (acre-feet/connection/year)		0.54	0.33
Water Plant Supply (gpm/connection)	0.6	1.86	0.24
Total Storage (gallons/connection)	200	259.31	172
Ground Storage (gallons/connection)	-	108.07	86
Elevated Storage (gallons/connection)	100	151.24	86
Pumping (gallons/connection)	0.6	0.64	0.8

**Table 7-4 TCEQ vs GVSUD design criteria 2029 with CIP**

Design Criteria 2029 CIP Projects Implemented			
Description	TCEQ (minimum)	Green Valley SUD (existing)	Green Valley SUD (demand)
Water Rights (acre-feet/connection/year)		0.54	0.33
Water Plant Supply (gpm/connection)	0.6	1.86	0.24
Total Storage (gallons/connection)	200	403.10	172
Ground Storage (gallons/connection)	-	154.63	86
Elevated Storage (gallons/connection)	100	248.47	86
Pumping (gallons/connection)	0.6	0.90	0.8

**Table 7-5 TCEQ vs GVSUD design criteria 2034 with CIP**

<b>Design Criteria 2034 CIP Projects Implemented</b>			
<b>Description</b>	<b>TCEQ (minimum)</b>	<b>Green Valley SUD (existing)</b>	<b>Green Valley SUD (demand)</b>
Water Rights (acre-feet/connection/year)		0.37	0.33
Water Plant Supply (gpm/connection)	0.6	1.71	0.24
Total Storage (gallons/connection)	200	335.61	172
Ground Storage (gallons/connection)	-	129.75	86
Elevated Storage (gallons/connection)	100	205.87	86
Pumping (gallons/connection)	0.6	0.74	0.8

As you can see in table 7-3, if the District does not implement the CIP projects to add pump capacity to the system, the system approaches the TCEQ minimum for pumping capacity. The system also decreased available storage in the system by almost 130 gallons per connection, approximately one third less storage per connection than the District has available today for service. It is important to note that TCEQ does not build in fireflow capacities into their minimums, so it is very important that the District exceeds the minimum requirements to ensure adequate fireflow is available for the service area. Additionally, by 2034 with the implementation of the proposed CIP projects, the District can maintain the current capacities in the system and provide the same level of service that they provide today.

## 8.0 Recommended Capital Improvements

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In order to meet growing demands projected from new developments and increasing population, there are recommended improvements to GVSUD's water system. Table 8-1 and 8-2 provide the prioritized projects, with Staff input, for the years 2024-29 and 2030-2034 and Exhibit 2 summarize the recommended capital improvements identified to meet GVSUD's needs for the next 10 years. We have also provided a listing of operational improvement projects in Table 8-3 that summarize the staff lead projects that need to be completed to abandon lines that have high tendency of leak repairs, dead end mains, or other factors that impact operations. These projects cannot be included in the Water Impact Fee assessment, they will need to be financed through the District's operating budget, operating reserves or loan backed by operating income, net of impact fees.

**Table 8-1 Year 2024-2029 CIP Projects**

Project	Description	Pipe Length (LF)	Total Cost
	<b>Target Projects Years 0-5</b>		
1	24" Pipe along GV Road that Connects Plant 1 to Plant 9 - Green Valley Road, Mesa Western to Dean	2,800	\$ 1,854,921.48
1A	Plant 15 Lower Seguin Road - Land Acquisition		\$ 146,500.00
1B	Trainer Hale Plant - Land Acquisition		\$ 146,500.00
1C	I35 Well Side Plant Site - Land Acquisition		\$ 146,500.00
1D	Gin/Santa Clara - Land Acquisition		\$ 146,500.00
2	Plant 15 Lower Seguin Road EST, GST & Pump Station	-	\$ 11,198,246.81
3	16" Pipe replacing 8" on Bolton Road - Go Cart track to Haeckerville Road	5,100	\$ 1,589,465.89
4	16" Pipe along Lower Seguin Rd - Plant 15 to Santa Clara Road	6,200	\$ 1,762,970.03
5	Plant 3 Pump station and GST	-	\$ 5,602,211.06
6	16" Pipe from Co-op Meter Station to Plant 3	10,800	\$ 2,504,237.31
7	Trainer Hale - 1518 Pump Station, EST, GST	-	\$ 11,766,737.81
8	16" Pipe along Altwein - FM 725 to Hardy Road	7,000	\$ 1,969,144.06
9	12" Pipe along Gin Road - Santa Clara to FM 2538	18,800	\$ 4,204,309.10
10	16" Pipe along FM 1044 Hilltop Estates to Plant 2 Distribution Line	3,500	\$ 978,068.22
11	12" Pipe along N Santa Clara Rd - Persimmon Trails to FM 78/Santa Clara Road	7,030	\$ 1,654,686.10
12	16" Pipe through SCWWTF along IH 10	2,100	\$ 624,442.55
13	8" Pipe along Crystal Valley Dr	1,230	\$ 334,473.08
14	8" Pipe Green Valley Road & FM 1044 for Plant 2 to Plant 1 backfeed	575	\$ 223,556.00
15	8" Pipe along Miller Road from FM 2538 to New Berlin Road	12,050	\$ 2,699,903.03
16	12" Pipe along Dean Road - Flush valve to flush valve	4,700	\$ 872,928.85
17	Plant 9 improvements - 1 MG EST	-	\$ 5,552,068.95
18	24" Pipe IH-35 crossing	19,150	\$ 5,998,141.14
19	16" Pipe Southpoint - Plant 4 to Plant 12	2,300	\$ 720,116.87
20	12" Pipe along IH 10 - Spur Trail to FM 725	9,250	\$ 1,902,931.62
21	12" Pipe along IH 10 - Pioneer Road to Nickerson Farms Road	6,400	\$ 903,409.59
22	8" Pipe along Partnership Road - FM 775 to CR 311	4,500	\$ 863,713.48
23	12" Pipe along Terminal loop - FM 725 to Treasure Cove	2,850	\$ 693,635.39
	<b>Total Projected Cost - Target Projects Years 0-5</b>		\$ 67,060,318.42

**Table 8-2 Year 2030-2034 CIP Projects**

	<b>Target Projects Years 6-10</b>	<b>Pipe Length (LF)</b>	
24	16" Pipe along FM 725, Guadalupe Bend to Terminal Loop	10,200	\$ 2,811,883.02
25	12" Pipe along FM 482	12,750	\$ 2,521,057.87
26	Well Side IH 35 Booster Pump Station, GST & EST minimum 500k gallons	-	\$ 8,972,233.96
27	12" Pipe along Country Lane - Tolle Road to Cross FM 78	2,950	\$ 778,211.87
28	16" Fill Line, pump station, GST & EST at property on Spur Trail	23,300	\$ 19,120,324.38
29	12" Pipe along Weil Road - Ann Austin development to Marion Road	8,000	\$ 1,897,926.96
30	16" Pipe along FM 78 - Venado to Haecherville	7,200	\$ 2,186,827.37
31	8" Pipe along Lower Valle Ln Weir Rd to Haecherville Rd	5,070	\$ 1,175,594.34
32	16" Pipe along Lower Seguin Rd - Haecherville Road to Plant 15	10,650	\$ 2,813,123.52
33	16" Pipe along Schmoekel Road - Stolte to Santa Clara Road	9,050	\$ 2,256,459.95
34	16" Pipe along FM 1044 from Winding Creek Ranch to Youngsford	5,850	\$ 1,745,503.16
35	16" Pipe along Weil Road - Brite Road to Country Vale	3,900	\$ 674,125.94
36	16" Pipe along Zuehl Road - Bolton to Cross IH 10	1,530	\$ 572,421.74
37	8" Pipe along E. Zipp - FM 725 to River Bend	2,300	\$ 675,382.04
38	16" Pipe along Stagecoach Road - Santa Clara to Pioneer Road	27,000	\$ 7,389,541.95
39	16" Pipe along Green Valley Road Plant 1 to Plant 2	31,500	\$ 8,651,733.78
40	12" Pipe along Marion Road from CRWA Pipe to GV Road	7,950	\$ 1,730,190.31
41	12" Pipe along Schwab & Wosnig	18,800	\$ 4,588,473.66
42	EST on Youngsford/FM 1044	-	\$ 12,319,302.81
43	750' EST @ Gin Road & Santa Clara Road	-	\$ 10,914,001.31
44	12" Pipe along FM 775 - Leissner School Rd to Beutnagel Ln	11,600	\$ 2,636,879.74
45	8" Pipe along New Berlin Rd - Miller Road to loop back to FM 2538 & Miller Roa	18,850	\$ 3,942,016.14
46	12" Pipe along Engel Rd . Green Valley Rd to Service Boundary	3,960	\$ 729,343.28
47	16" Pipe along Union Wine from FM 1044 to Sunshine Lane	9,700	\$ 2,710,190.84
48	16" Pipe along Youngsford from FM 1044 to FM 725	20,200	\$ 5,522,004.14
49	16" Pipe along FM 1044 from Youngsford to Wosnig Road	13,850	\$ 3,889,065.61
50	12" Pipe connecting on Coy Lane	2,330	\$ 309,864.99
51	12" Pipe along FM 465 - GVSUD HQ to Stagecoach Road	7,950	\$ 1,791,817.44
52	12" Pipe along Youngsford Road from Country Lane to Santa Clara	5,160	\$ 1,199,591.45
53	16" Pipe along FM 2252 - IH 35 to Plant 7	11,750	\$ 3,423,780.23
54	16" Pipe along Haecherville Road - Bolton to Valley View	4,000	\$ 1,105,687.65
	<b>Total Projected Cost - Target Projects Years 6-10</b>		<b>\$ 121,054,561.45</b>

**Table 8-3 Operational Improvement Projects**

Project	Description	Total Cost
<b>Operational Projects - Operating costs</b>		
1000	Treasure Island, Woodlakes, Lake McQueeney Estates Replacements	\$ 6,578,941.39
1001	8" Pipe along Lake Bend Drive to replace 1.25-2" Steel line	\$ 372,140.17
1002	8" Pipe Plant 6 through Lakeview Trail	\$ 738,426.04
1003	8" Pipe along Hot Shot Lane - Bamboo Bluff to Isle of View	\$ 285,696.84
1004	8" Pipe along Rosewood Trail to CR 301	\$ 576,533.50
1005	Plant 8 Standby Generator	\$ 238,904.58
1006	8" Pipe Leisure Village from FM 725	\$ 1,484,632.05
1007	8" Pipe Wosnig to Gambler to replace 4 inch	\$ 805,551.47
1008	8" Zipp Avenue - Old San Antonio Road to FM 78	\$ 133,390.92
1009	8" McQueeney Elementary School FM 725	\$ 494,307.25
1010	8" Pipe along FM 725 - Hwy 90 to end of current 1.5" PVC line	\$ 1,509,340.88
1011	8" Pipe along Woodcreek Circle	\$ 759,732.99
1012	8" Pipe Republic Plastics to McQueeney Road	\$ 324,596.49
1013	8" Hard Luck Road to FM 78	\$ 1,620,770.99
1014	12" along FM 78 Schumann Road to McQueeney Road	\$ 396,448.58
1015	Connect line at Buch Ln and Tillinghat	\$ 624,943.55
1016	8" Pipe Lakeside Pass to connect deadends	\$ 263,344.35
1017	8" Pipe connection Schumann Beach (4" to 2" Loop Connection)	\$ 750,797.01
1018	8" Pipe River Bend Drive - Placid Cove to E. Zipp Road	\$ 245,736.42
1019	Plant 2 Portable Standby Generator	\$ 272,743.33
1020	Plant 9 Standby Generator	\$ 248,379.43
1021	Upgrade waterlines Santa Clara Loop, Cody Lane, Cale Dr., Kiser Lane to add fireflow/replace aging lines	\$ 3,798,362.15
1022	Wunless Drive service replacement	\$ 157,442.19
<b>Total Projects Cost - Operational Projects</b>		<b>\$ 22,681,162.57</b>

## 8.1 Proposed Water Supply

The water supply projects proposed for the District at this time consist of ARWA Phase II, CRWA Wells Ranch Phase III, and Lake Dunlap Expansion to treat the District's GBRA and River Mill water rights. These sources total approximately 3,375 acre-feet of water, depending on final contracts with ARWA for that supply. This 3,375 AF of water will accommodate approximately 10,227 EDUs of service at the 10-year historic average of 0.33 AF/connection or 8,438 EDUs at the 0.4 AF/connection that we use for planning. It is recommended that the District consider additional water from ARWA if it becomes available since many of the pump station and transmission main components have already been confirmed and planned. Easements have also been acquired for additional ARWA deliver mains, therefore, the Phase II water should bring the average water cost for that project below the current Phase I costs.

## 9.0 Conclusions and Recommendations

---

As you can see after reviewing the 2024 Master Plan and evaluating the projects completed under the previous plan, the District is growing and the growth requires capital investment to maintain compliance with TCEQ, local, state, federal regulation as well as the expectations of the rate payers and customers. This Master Plan is a road map for the foreseeable future and should be updated at least every 5 years. The plan should be used as a guide to maintain compliance, a budgeting tool for capital investment and the basis for the future impact fee study in compliance with Chapter 395 of the Local Government Code. The Board and Staff should review the projects often and prepare a Capital Budget to construct the projects. We recommend proceeding with the Water Impact Fee Study update as soon as this plan is adopted by the District.

Please note that the project listings are not in any particular order of priority. The intent is to identify the projects and prioritize them on an annual basis during budget preparation so that the District can meet the goals of the study and meet the needs of the District. Priorities may change on an annual basis based on development hotspots, maintenance needs, outside agency projects (TxDOT, County, Cities) or other factors.

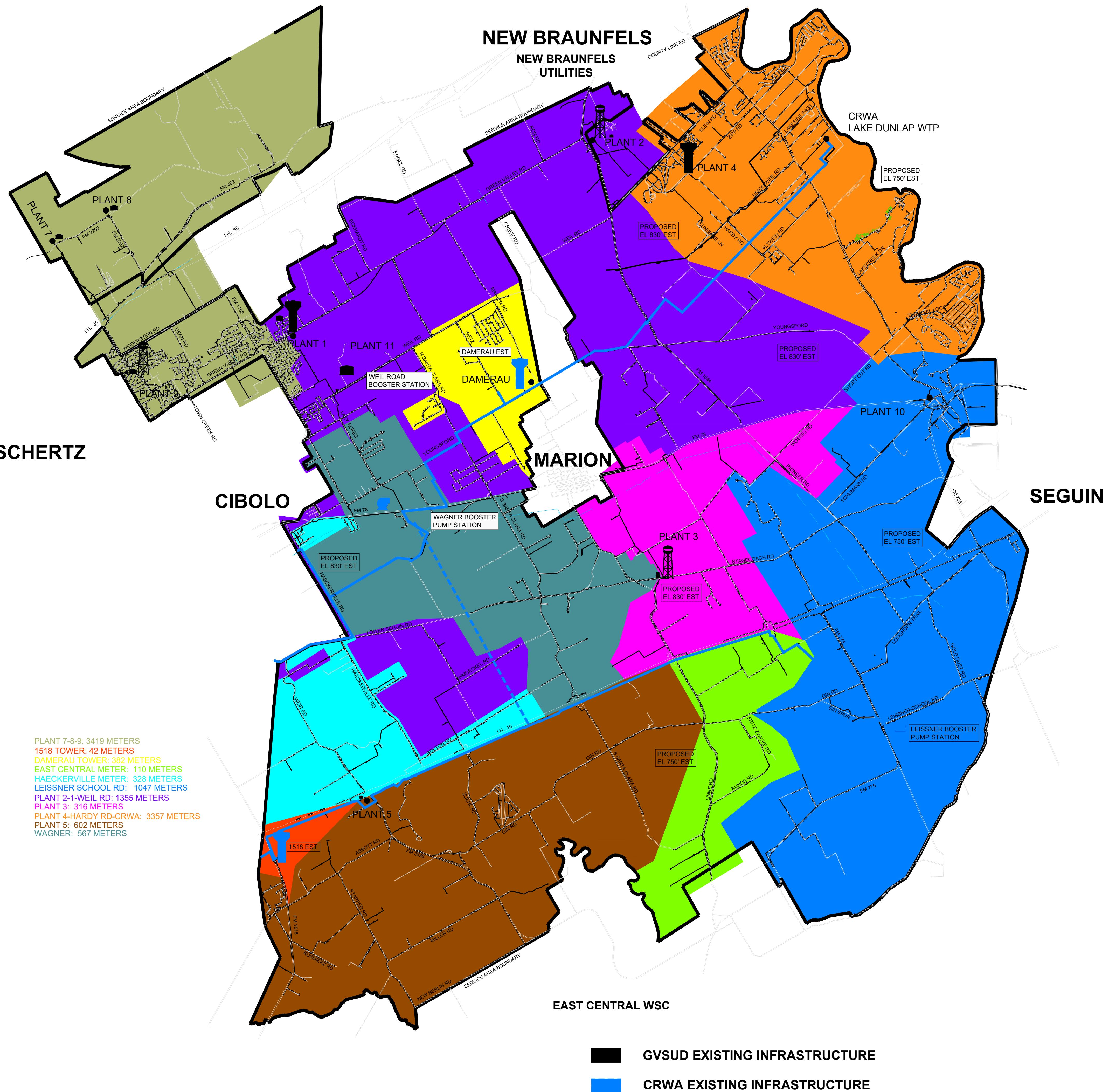
The operational projects should be budgeted in the operating budget and are not impact fee eligible for revenue or expenses. These projects will need to be included in future rate designs and budgets as prioritized by staff.

## Appendix A: Exhibits

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*Exhibit 1: Existing Pressure Planes*

SCALE: 1" = 4,300'



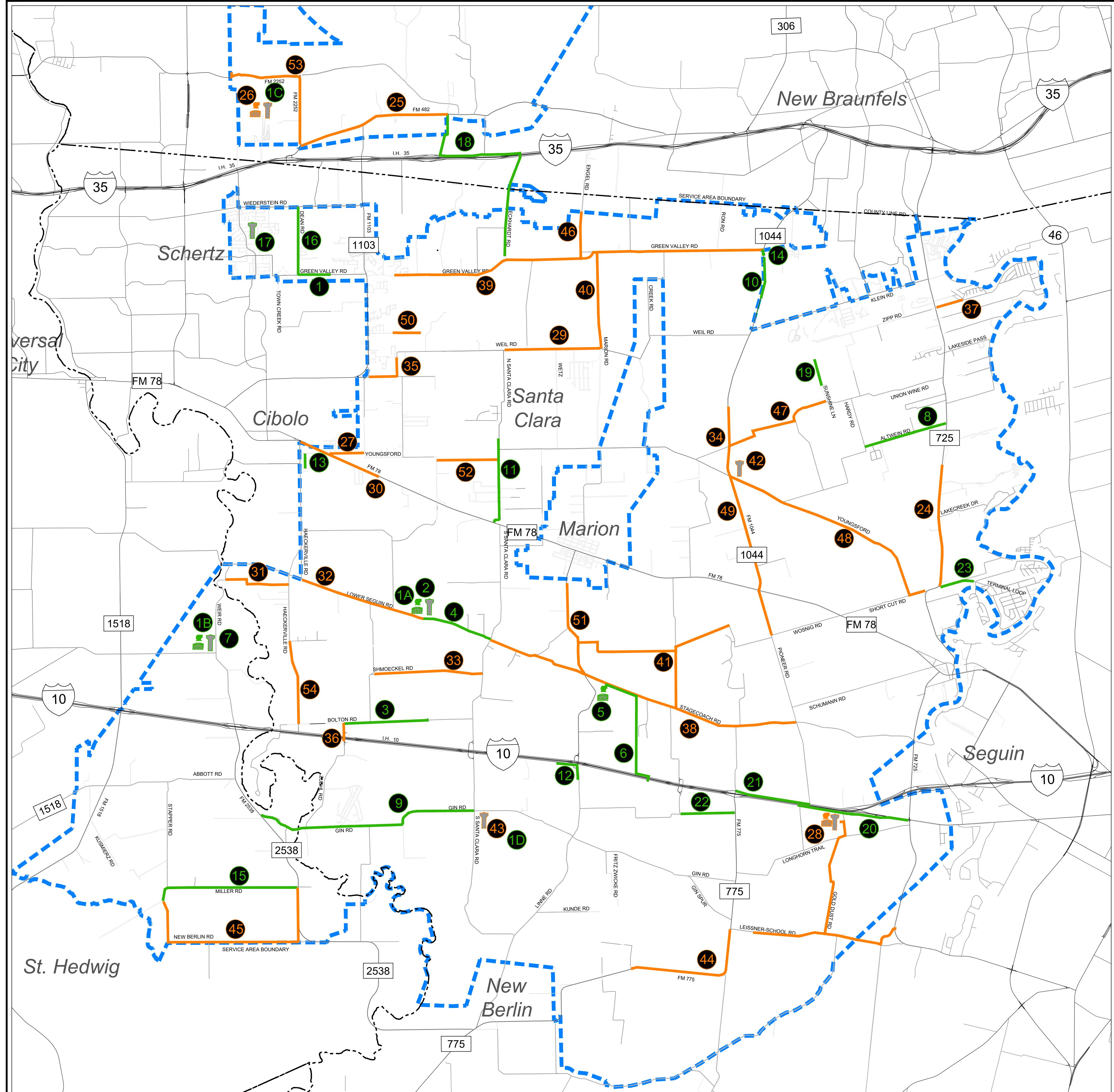
GREEN VALLEY SPECIAL UTILITY DISTRICT

## PRESSURE PLANES EXHIBIT



# **UTILITY ENGINEERING GROUP PLLC**

*Exhibit 2: Proposed Capital Improvements*



**GREEN VALLEY SPECIAL UTILITY DISTRICT  
CAPITAL IMPROVEMENT PROJECTS**

**TARGET PROJECTS YEARS 0-5**

1	24" PIPE ALONG GREEN VALLEY RD - CONNECTS PLANT 1 TO PLANT 9 - GREEN VALLEY RD, MESA WESTERN TO DEAN
1-A	PLANT 15 LOWER SEGUIN ROAD - LAND ACQUISITION
1-B	TRAINER HALE PLANT - LAND ACQUISITION
1-C	1H 35 WELL SIDE PLANT - LAND ACQUISITION
1-D	GIN/SANTA CLARA - LAND ACQUISITION
2	PLANT 15 LOWER SEGUIN ROAD EST, GST & PUMP STATION
3	16" PIPE REPLACING 8" ON BOLTON ROAD - GO CART TRACK TO ZUEHL RD
4	16" PIPE ALONG LOWER SEGUIN RD - PLANT 15 TO SANTA CLARA RD
5	PLANT 3 PUMP STATION AND GST
6	16" PIPE ALONG LINNE ROAD - CO-OP METER STATION TO PLANT 3
7	TRAINER HALE - 1518 PUMP STATION, EST & GST
8	16" PIPE ALONG ALTWEIN - FM 725 TO HARDY ROAD
9	12" PIPE ALONG GIN ROAD - SANTA CLARA TO FM 2538
10	16" PIPE ALONG FM 1044 HILTOP ESTATES TO PLANT 2 DISTRIBUTION LINE
11	12" PIPE ALONG N SANTA CLARA RD - PERSIMMON TRAILS TO F 78/SANTA CLARA RD
12	16" PIPE THROUGH SCWWTF ALONG IH 10
13	8" PIPE ALONG CRYSTAL VALLEY DR.
14	8" PIPE GREEN VALLEY RD & FM 1044 FOR PLANT 2 TO PLANT 1 BACKFEED
15	8" PIPE ALONG MILLER RD - FM 2538 TO NEW BERLIN RD
16	12" PIPE ALONG DEAN ROAD - FLUSH VALVE TO FLUSH VALVE
17	PLANT 9 IMPROVEMENTS - 1 MG EST
18	24" PIPE IH-35 CROSSING
19	16" PIPE SOUTHPPOINT - PLANT 4 TO PLANT 12
20	12" PIPE ALONG IH-10 - PRAIRIE HILL TO FM 725
21	12" PIPE ALONG IH-10 - PIONEER ROAD TO NICKERSON FARMS ROAD
22	8" PIPE ALONG PARTNERSHIP ROAD - FM 775 TO CR 311
23	12" PIPE ALONG TERMINAL LOOP - FM 725 TO TREASURE COVE

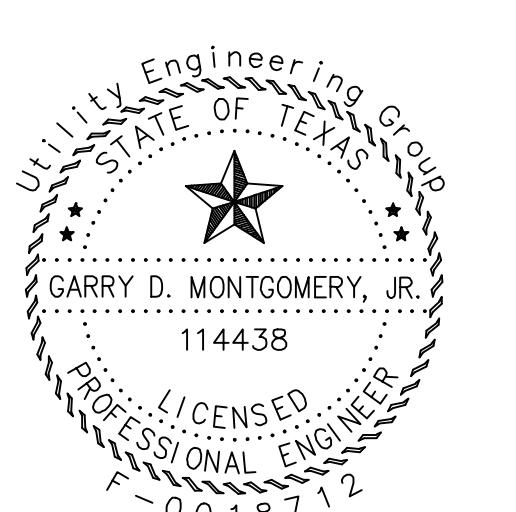
**TARGET PROJECTS YEARS 6-10**

24	16" PIPE ALONG FM 725 - GUADALUPE BEND TO TERMINAL LOOP
25	12" PIPE ALONG FM 482
26	WELL SIDE IH 35 BOOSTER PUMP STATION, GST, & EST MINIMUM 500K GALLONS
27	12" PIPE ALONG COUNTRY LANE - TOLLE ROAD TO CROSS FM 78
28	16" FILL LINE, PUMP STATION, GST & EST AT PROPERTY ON SPUR TRAIL
29	12" PIPE ALONG WEIL ROAD - ANN AUSTIN DEVELOPMENT TO MARION ROAD
30	16" PIPE ALONG FM 78 - VENADO TO HAECKERVILLE
31	8" PIPE ALONG LOWER VALLEY LN - WEIR ROAD TO HAECKERVILLE RD
32	16" PIPE ALONG LOWER SEGUIN RD - HAECKERVILLE RD TO PLANT 15
33	16" PIPE ALONG SCHMOEKEL RD - STOLTE TO SANTA CLARA RD
34	16" PIPE ALONG FM 1044 - WINDING CREEK RANCH TO YOUNGSFORD
35	16" PIPE ALONG WEIL ROAD - BRITE ROAD TO COUNTRY VALE
36	16" PIPE ALONG ZUEHL ROAD - BOLTON TO CROSS IH-10
37	8" PIPE ALONG E. ZIPP - FM 725 TO RIVER BEND
38	16" PIPE ALONG STAGECOACH RD - SANTA CLARA TO PIONEER ROAD
39	16" PIPE ALONG GREEN VALLEY ROAD - PLANT 1 TO PLANT 2
40	12" PIPE ALONG MARION ROAD - CRWA PIPE TO GREEN VALLEY RD
41	12" PIPE ALONG SCHWAB & WOSNIG
42	EST ON YOUNGSFORD/FM 1044
43	750' EST AT GIN RD & SANTA CLARA RD
44	12" PIPE ALONG FM 775 - LEISSNER SCHOOL RD TO BEUTNAGEL LN
45	8" PIPE ALONG NEW BERLIN RD - MILLER RD TO LOOP BACK TO FM 2538 & MILLER RD
46	12" PIPE ALONG ENGEL RD - GREEN VALLEY RD TO SERVICE BOUNDARY
47	16" PIPE ALONG UNION WINE - FM 1044 TO SUNSHINE LN
48	16" PIPE ALONG YOUNGSFORD - FM 1044 TO FM 725
49	16" PIPE ALONG FM 1044 - YOUNGSFORD TO WOSNIG
50	12" PIPE CONNECTING ON COY LANE
51	12" PIPE ALONG FM 465 - GVSD HQ TO STAGECOACH ROAD
52	12" PIPE ALONG YOUNGSFORD ROAD - COUNTRY LANE TO SANTA CLARA
53	16" PIPE ALONG FM 2252 - IH 35 TO PLANT 7
54	16" PIPE ALONG HAECKERVILLE RD - BOLTON RD TO VALLEY VIEW

**LEGEND**

	PARCELS
	COUNTY LINE
	GVSD WATER CON
	YEAR 2024 - 2029 CIP
	YEAR 2030 - 2034 CIP

SCALE: 1" = 4,000'  
0 4,000 8,000



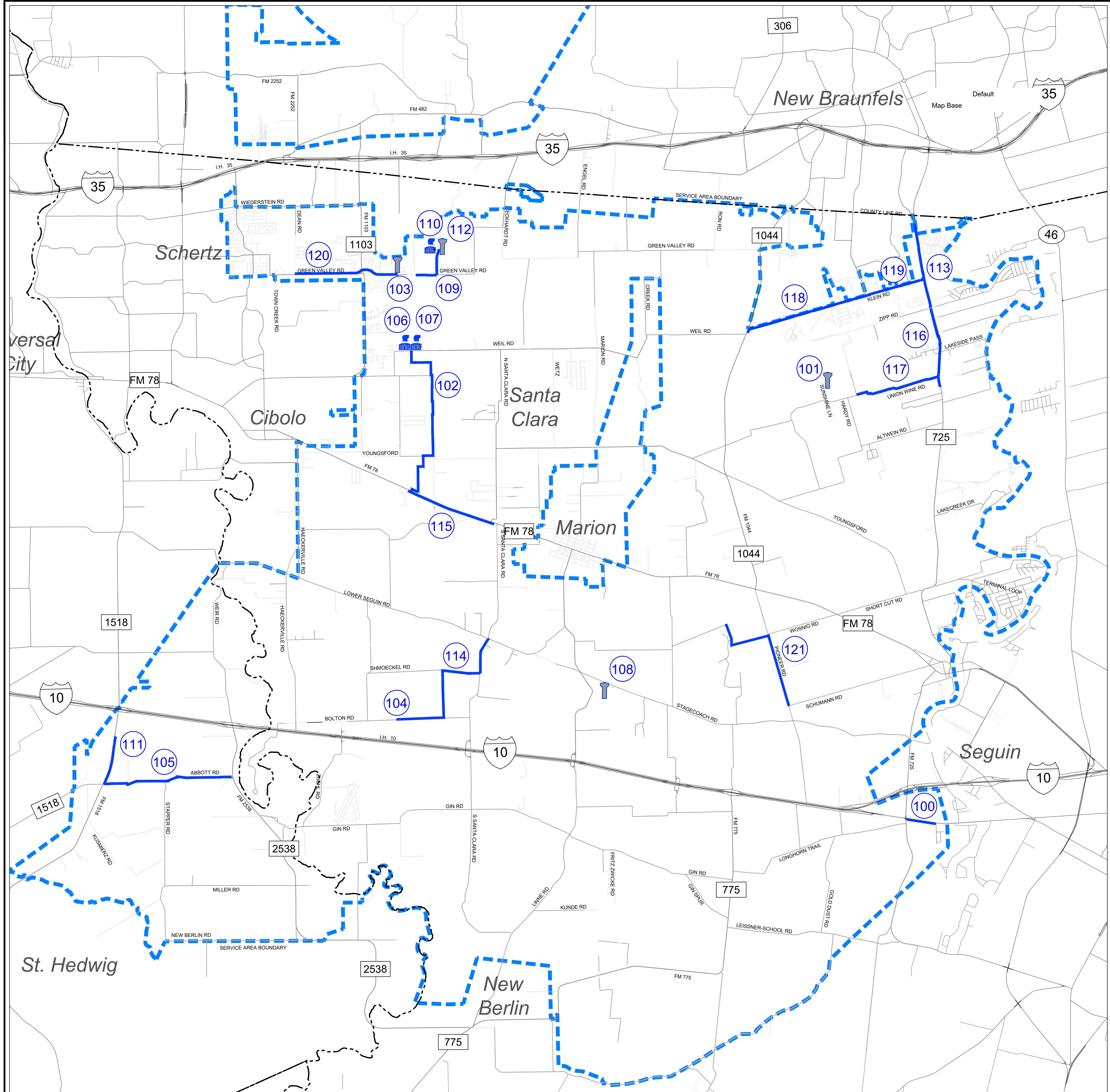
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GARRY D. MONTGOMERY, JR.  
TYPE OR PRINT NAME  
114438  
PE#  
3/19/24  
DATE

SCALE:			
DATE: 19 March, 2024			
PROJECT NO:			
DESIGNED BY:			
CHECKED BY:			
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NO.	REVISIONS	APPD.	DATE

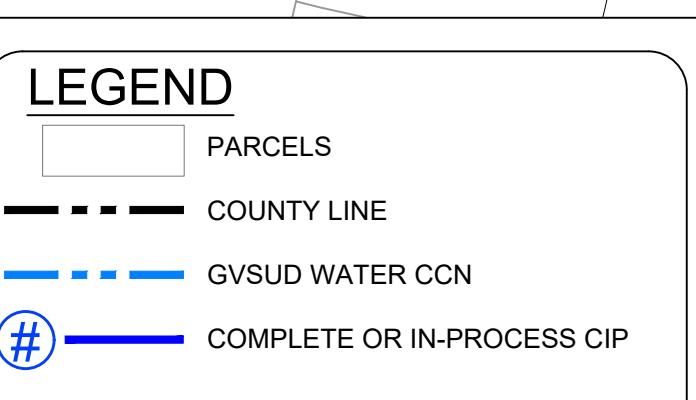
**GREEN VALLEY SPECIAL UTILITY DISTRICT  
CAPITAL IMPROVEMENT PROJECT MAP**



258 Comal Ave NEW BRAUNFELS, TEXAS 78130 PH: (830) 214-0521  
Texas Engineering Firm F-18712



GREEN VALLEY SPECIAL UTILITY DISTRICT COMPLETE OR IN-PROCESS PROJECTS	
100	8" PIPE ALONG ALT HWY 90 - FM 725 TO RIVER ROAD
101	EST @ HARDY RD AND UNION WINE - PLANT 12
102	24" WELL ROAD BPS FILL PIPELINE - YOUNGSFORD TO WEIL RD EPS
103	PLANT 1 1MG EST
104	GVSUD TAKE-POINT METER STATION AT AW TEXAS, & 16" PIPELINE
105	16" PIPE ALONG ABBOTT ROAD - FM 1518 TO FM 2538
106	PLANT 11 PHASE I GST & PUMPS
107	PLANT 11 PHASE II GST AND PUMPS
108	830" EST @ PLANT 3
109	16" PIPE HOMESTEAD FILL LINE
110	HOMESTEAD EST
111	16" PIPE HALLIES RANCH
112	HOMESTEAD GST AND PUMP STATION
113	12" & 16" PIPE FM 725 - COUNTY LINE TO SCHUMANN BEACH ROAD
114	16" PIPE BOLTON ROAD METER STATION TO LOWER SEGUIN ROAD/SANTA CLARA ROAD
115	16" PIPE ALONG FM 78 - WAGNER TO SANTA CLARA ROAD
116	16" PIPE ALONG FM 725 - ZIPP ROAD TO UNION WINE
117	16" PIPE ALONG UNION WINE - FM 725 TO ZIPP EXTENSION
118	16" PIPE ALONG KLEIN ROAD PHASE I
119	16" PIPE ALONG KLEIN ROAD PHASE II
120	24" PIPE GREEN VALLEY PLANT 1 TO DEAN ROAD
121	16" PIPE ALONG PIONEER RD - WOSNIG TO SCHUMANN RD



SCALE: 1" = 4,000'  
0 4,000 8,000

0 4,000 8,000



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114438  
PE#

22/02/24 DATE

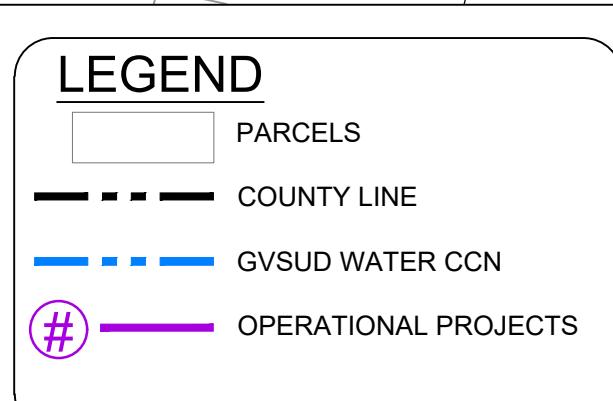
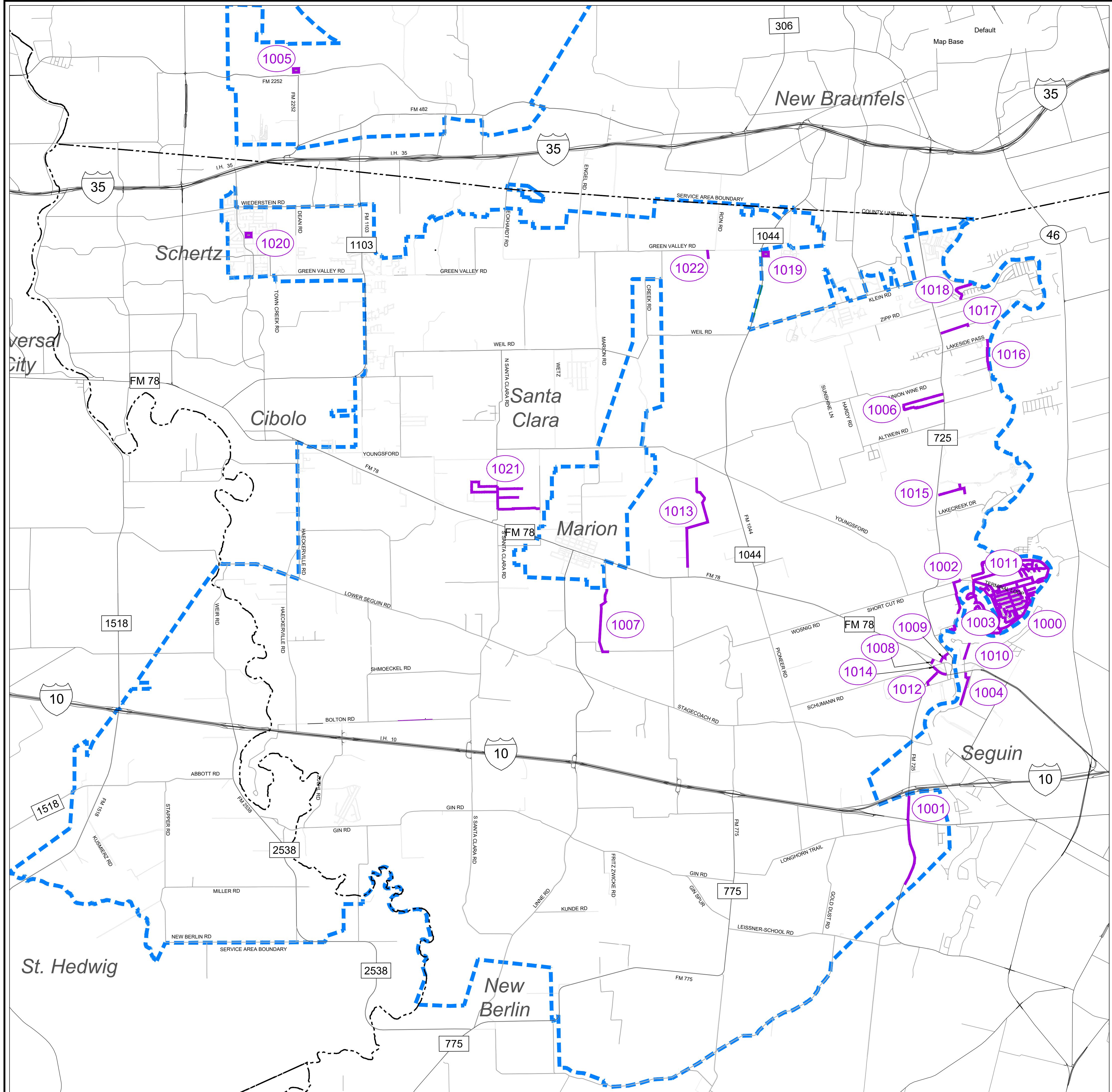
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SHEET NO.	
OF 1 SHEETS	

## GREEN VALLEY SPECIAL UTILITY DISTRICT

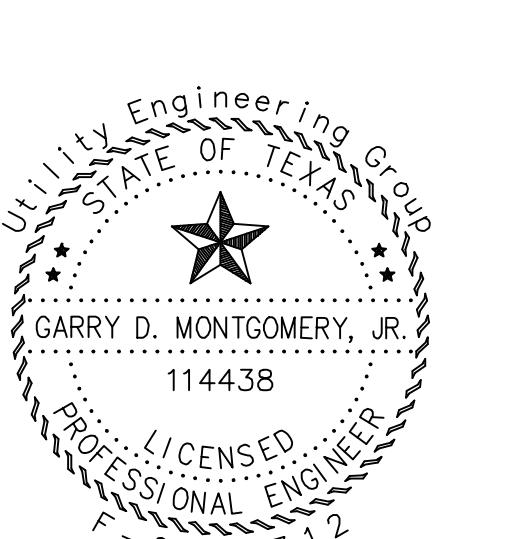
### COMPLETE OR IN-PROCESS PROJECT MAP



258 Comal Ave NEW BRAUNFELS, TEXAS 78130 PH: (830) 214-0521  
Texas Engineering Firm F-18712



SCALE: 1" = 4,000' 0 4,000 8,000



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TYPE OR PRINT NAME  
114438  
PE#

3/19/24  
DATE

GREEN VALLEY SPECIAL UTILITY DISTRICT OPERATIONAL PROJECTS	
1000	TREASURE ISLAND, WOODLAKES, LAKE MCQUEENEY ESTATES REPLACEMENTS
1001	8" PIPE ALONG LAKE BEND DRIVE TO REPLACE 1.25 - 2" STEEL LINE
1002	8" PIPE PLANT 6 THROUGH LAKEVIEW TRAIL
1003	8" PIPE ALONG HOT SHOT LANE - BAMBOO BLUFF TO ISLE OF VIEW
1004	8" PIPE ALONG ROSEWOOD TRAIL TO CR 301
1005	PLANT 8 STANDBY GENERATOR
1006	8" PIPE LEISURE VILLAGE FROM FM 725
1007	8" PIPE WOSNIG TO GEMBLER TO REPLACE 4 INCH
1008	8" ZIPP AVENUE - OLD SAN ANTONIO ROAD TO FM 78
1009	8" MCQUEENEY ELEMENTARY SCHOOL FM 725
1010	8" PIPE ALONG FM 725 - HWY 90 TO END OF 1.5" PVC LINE
1011	8" PIPE ALONG WOODCREEK CIRCLE
1012	8" PIPE REPUBLIC PLASTICS TO MCQUEENEY ROAD
1013	8" HARD LUCK ROAD TO FM 78
1014	12" ALONG FM 78 - SCHUMANN ROAD TO MCQUEENEY ROAD
1015	CONNECT LINE AT BUCH LN AND TILLINGHAT
1016	8" PIPE LAKESIDE PASS TO CONNECT DEADENDS
1017	8" PIPE CONNECTION SCHUMANN BEACH (4" TO 2" LOOP CONNECTION)
1018	8" PIPE RIVER BEND DRIVE - PLACID COVE TO E. ZIPP ROAD
1019	PLANT 2 PORTABLE STANDBY GENERATOR
1020	PLANT 9 STANDBY GENERATOR
1021	UPGRADE WATERLINES SANTA CLARA LOOP, CODY LANE, CALE DR., KISER LANE TO ADD FIREFLOW / REPLACE AGING LINES
1022	WUNLESS DRIVE SERICE REPLACEMENT

SCALE: DATE: 19 March, 2024	
PROJECT NO:	
DESIGNED BY:	
CHECKED BY:	
SHEET NO. OF 1 SHEETS	

GREEN VALLEY SPECIAL UTILITY DISTRICT  
OPERATIONAL PROJECTS MAP

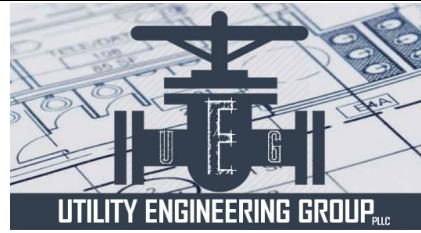
## Appendix C: Project Budget & Detailed Construction Cost Estimate

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*CIP Projects Year 2024-2029*



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : 2024 Water Master Plan  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

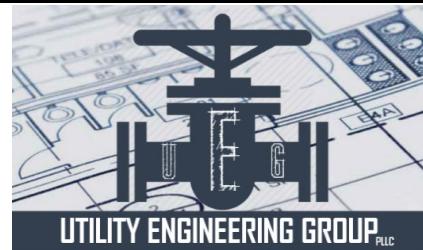
Date: 03/18/24

### Notes:

- 1) This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost
- 2) Cost estimates do not include meter service reconnection costs since those costs are operational and not impact fee eligible.



**Green Valley Special Utility District**  
605 Fm 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1 - 24" PIPE LINE THAT CONNECTS PLANT 1 TO PLANT 9

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE ROW	1	LS	\$ 25,000.00	\$ 25,000.00
2	24" C900 PVC DR14(CL 235), WTR LN (OP CT)	2,750	LS	\$ 230.00	\$ 632,500.00
3	24" GATE VALVE & BOX (COMPLETE)	6	EA	\$ 40,000.00	\$ 240,000.00
4	TIE-IN (COMPLETE)(24 IN)	2	EA	\$ 10,000.00	\$ 20,000.00
5	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,800.00	\$ 40,800.00
6	DUCTILE IRON FITTINGS	0.95	TON	\$ 21,000.00	\$ 19,950.00
7	CONCRETE DRIVEWAY REPAIR	25	SY	\$ 205.00	\$ 5,125.00
8	ASPHALT DRIVEWAY REPAIR	119	SY	\$ 93.00	\$ 11,067.00
9	GRAVEL DRIVEWAY REPAIR	358	SY	\$ 79.00	\$ 28,282.00
10	TRENCH & EXCAVATION SAFETY	2,750	LF	\$ 2.00	\$ 5,500.00
11	PRESSURE TEST AND DISINFECT	1	LS	\$ 10,000.00	\$ 10,000.00
12	42" CASING BY BORE	20	LF	\$ 1,050.00	\$ 21,000.00
13	42" CASING BY OPEN CUT	360	LF	\$ 500.00	\$ 180,000.00
14	4" ARV	1	EA	\$ 11,800.00	\$ 11,800.00
15	SERVICE RECONNECTION	18	EA	\$ 2,800.00	\$ 50,400.00
16	REPAIR PIPE FENCE	160	LF	\$ 83.00	\$ 13,280.00
17	REPAIR WIRE FENCE	320	LF	\$ 50.00	\$ 16,000.00
18	REPAIR WOOD FENCE	40	LF	\$ 62.00	\$ 2,480.00
19	FINAL GRADE AND SEED	1.26	AC	\$ 6,230.00	\$ 7,849.80
20	TRAFFIC CONTROL	1	LS	\$ 8,000.00	\$ 8,000.00

**CONSTRUCTION COST** \$ 1,349,033.80

Bonds, Mobilization & Insurance	LS	\$ 134,903.38
Contingencies	15%	\$ 222,590.58

**CONSTRUCTION COST TOTAL** \$ 1,706,527.76

**PROFESSIONAL SERVICES**

Design & Construction Admin				\$ 148,393.72
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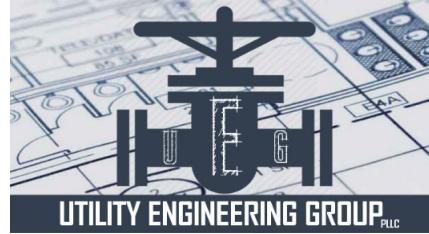
**TOTAL PROFESSIONAL SERVICES** \$ 148,393.72

**TOTAL PROJECT** \$ 1,854,921.48

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P2 - PLANT 15 LOWER SEGUIN ROAD  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION, METER STATION	1	LS	\$ 2,165,000.00	\$ 2,165,000.00
11	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

<b>CONSTRUCTION COST</b>					<b>\$ 8,299,100.00</b>
Bonds, Mobilization & Insurance		7%			\$ 580,937.00
Contingencies		10%			\$ 888,003.70

**CONSTRUCTION COST TOTAL** **\$ 9,768,040.70**

<b>PROFESSIONAL SERVICES</b>					
Basic Engineering		12%			\$ 1,172,164.88
Surveying		1	LS	\$ 6,500.00	\$ 6,500.00
Land purchase		1	LS	\$ 105,000.00	\$ 105,000.00
Construction Admin		3%			\$ 293,041.22

**TOTAL PROFESSIONAL SERVICES** **\$ 1,576,706.11**  
**TOTAL PROJECT** **\$ 11,344,746.81**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P3 - 16" PIPE ALONG BOLTON RD  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	6,350	LF	\$ 2.00	\$ 12,700.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	6,350	LF	\$ 120.00	\$ 762,000.00
3	16" GATE VALVE & BOX (COMPLETE)	12	EA	\$ 12,500.00	\$ 150,000.00
4	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
5	FIRE HYDRANT ASSEMBLY	10	EA	\$ 6,500.00	\$ 65,000.00
6	DUCTILE IRON FITTINGS	3.0	TON	\$ 7,800.00	\$ 23,400.00
7	CONCRETE DRIVEWAY REPAIR	35	SY	\$ 75.00	\$ 2,625.00
8	GRAVEL DRIVEWAY REPAIR	75	SY	\$ 30.00	\$ 2,250.00
9	FENCING REPAIR	100	LF	\$ 20.00	\$ 2,000.00
10	REMOVE AND REPLACE MAIL BOX	7	EA	\$ 350.00	\$ 2,450.00
11	ABANDON-IN-PLACE EX. 8" WATER MAIN	3,400	LF	\$ 2.50	\$ 8,500.00
12	FINAL GRADE AND SEED	6,350	LF	\$ 1.50	\$ 9,525.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 6,560.00	\$ 6,560.00
14	TRAFFIC CONTROL	1	LS	\$ 4,500.00	\$ 4,500.00

<b>CONSTRUCTION COST</b>					<b>\$ 1,057,010.00</b>
Bonds, Mobilization & Insurance		7%			\$ 73,990.70
Contingencies		10%			\$ 113,100.07

**CONSTRUCTION COST TOTAL** **\$ 1,244,100.77**

<b>PROFESSIONAL SERVICES</b>					
Basic Engineering		12%			\$ 149,292.09
Easement Preparation & Acquisition	6,350	LF	\$ 22.00		\$ 139,700.00
Surveying	6,350	LF	\$ 3.00		\$ 19,050.00
Construction Admin		3%			\$ 37,323.02

**TOTAL PROFESSIONAL SERVICES** **\$ 345,365.12**  
**TOTAL PROJECT** **\$ 1,589,465.89**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P4 16" LOWER SEGUIN ROAD - PLANT 15 TO SANTA CLARA ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	6,200	LF	\$ 2.00	\$ 12,400.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	6,200	LF	\$ 120.00	\$ 744,000.00
3	16" GATE VALVE & BOX (COMPLETE)	17	EA	\$ 12,500.00	\$ 212,500.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	FIRE HYDRANT ASSEMBLY	10	EA	\$ 6,500.00	\$ 65,000.00
6	DUCTILE IRON FITTINGS	1.8	TON	\$ 7,800.00	\$ 14,040.00
7	GRAVEL DRIVEWAY REPAIR	40	SY	\$ 30.00	\$ 1,200.00
8	ASPHALT DRIVEWAY REPAIR	55	SY	\$ 50.00	\$ 2,750.00
9	CONCRETE DRIVEWAY REPAIR	55	SY	\$ 75.00	\$ 4,125.00
10	REMOVE AND REPLACE MAILBOX	19	EA	\$ 350.00	\$ 6,650.00
11	FINAL GRADE AND SEED	6,200	LF	\$ 1.50	\$ 9,300.00
12	30" STEEL CASING (JACK & BORE)	150	LF	\$ 440.00	\$ 66,000.00
13	ABANDON-IN-PLACE EX. 8" WATER MAIN	6,200	LF	\$ 2.50	\$ 15,500.00
14	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 24,000.00	\$ 24,000.00
15	TRAFFIC CONTROL	1	LS	\$ 6,500.00	\$ 6,500.00

**CONSTRUCTION COST** \$ 1,187,965.00

Bonds, Mobilization & Insurance	7%	\$ 83,157.55
Contingencies	10%	\$ 127,112.26

**CONSTRUCTION COST TOTAL** \$ 1,398,234.81

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 167,788.18
Easement Preparation & Acquisition	6,200	LF \$ 22.00 \$ 136,400.00
Surveying	6,200	LF \$ 3.00 \$ 18,600.00
Construction Admin	3%	\$ 41,947.04

**TOTAL PROFESSIONAL SERVICES** \$ 364,735.22

**TOTAL PROJECT** \$ 1,762,970.03

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P5 - PLANT 3 STAGECOACH ROAD IMPROVEMENTS  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs: \_\_\_\_\_ Date: 03/18/24  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
8	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
9	HIGH SERVICE PUMP STATION	1	LS	\$ 1,650,000.00	\$ 1,650,000.00
10	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

**CONSTRUCTION COST** **\$ 4,134,100.00**

Bonds, Mobilization & Insurance	7%	\$ 289,387.00
Contingencies	10%	\$ 442,348.70

**CONSTRUCTION COST TOTAL** **\$ 4,865,835.70**

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 583,900.28
Surveying	1	LS
Construction Admin	3%	\$ 145,975.07

**TOTAL PROFESSIONAL SERVICES** **\$ 736,375.36**

**TOTAL PROJECT** **\$ 5,602,211.06**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P6 16" CO-OP METER STATION TO PLANT 3 FILL LINE  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs: \_\_\_\_\_ Date: 03/18/24  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	10,800	LF	\$ 2.00	\$ 21,600.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	10,800	LF	\$ 120.00	\$ 1,296,000.00
3	16" GATE VALVE & BOX (COMPLETE)	6	EA	\$ 12,500.00	\$ 75,000.00
4	TIE-IN (COMPLETE)(8 IN)	2	EA	\$ 3,250.00	\$ 6,500.00
5	FIRE HYDRANT ASSEMBLY	5	EA	\$ 6,500.00	\$ 32,500.00
6	DUCTILE IRON FITTINGS	3.5	TON	\$ 7,800.00	\$ 27,300.00
7	GRAVEL DRIVEWAY REPAIR	130	SY	\$ 30.00	\$ 3,900.00
8	FINAL GRADE AND SEED	10,800	LF	\$ 1.50	\$ 16,200.00
9	30" STEEL CASING (JACK & BORE)	350	LF	\$ 425.00	\$ 148,750.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 18,400.00	\$ 18,400.00
11	TRAFFIC CONTROL	1	LS	\$ 4,500.00	\$ 4,500.00

**CONSTRUCTION COST** **\$ 1,650,650.00**

Bonds, Mobilization & Insurance	7%	\$ 115,545.50
Contingencies	10%	\$ 176,619.55

**CONSTRUCTION COST TOTAL** **\$ 1,942,815.05**

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 233,137.81
Easement Preparation & Acquisition	10,800	LF \$ 22.00 \$ 237,600.00
Surveying	10,800	LF \$ 3.00 \$ 32,400.00
Construction Admin		3% \$ 58,284.45

**TOTAL PROFESSIONAL SERVICES** **\$ 561,422.26**

**TOTAL PROJECT** **\$ 2,504,237.31**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P7 - PLANT 16 TRAINER HALE ROAD  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION	1	LS	\$ 1,955,000.00	\$ 1,955,000.00
11	OFFSITE WATERLINE CONNECTION	1	LS	\$ 630,000.00	\$ 630,000.00
12	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

<b>CONSTRUCTION COST</b>				<b>\$ 8,719,100.00</b>
Bonds, Mobilization & Insurance		7%		\$ 610,337.00
Contingencies		10%		\$ 932,943.70

**CONSTRUCTION COST TOTAL** **\$ 10,262,380.70**

<b>PROFESSIONAL SERVICES</b>				
Basic Engineering		12%		\$ 1,231,485.68
Surveying	1	LS	\$ 6,500.00	\$ 6,500.00
Land Purchase		1	LS	\$ 105,000.00
Construction Admin		3%		\$ 307,871.42

**TOTAL PROFESSIONAL SERVICES** **\$ 1,650,857.11**  
**TOTAL PROJECT** **\$ 11,913,237.81**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P8 16" ALTWEIN ROAD - FM 725 to HARDY ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,000	LF	\$ 2.00	\$ 14,000.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	7,000	LF	\$ 120.00	\$ 840,000.00
3	24" GATE VALVE & BOX (COMPLETE)	16	EA	\$ 1,250.00	\$ 20,000.00
4	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
7	DUCTILE IRON FITTINGS	1.2	TON	\$ 7,800.00	\$ 9,360.00
8	FENCING REPAIR	5,000	LF	\$ 25.00	\$ 125,000.00
9	GRAVEL DRIVEWAY REPAIR	45	SY	\$ 30.00	\$ 1,350.00
10	ASPHALT DRIVEWAY REPAIR	45	SY	\$ 50.00	\$ 2,250.00
11	CONCRETE DRIVEWAY REPAIR	90	SY	\$ 75.00	\$ 6,750.00
12	REMOVE AND REPLACE MAILBOX	15	EA	\$ 350.00	\$ 5,250.00
13	FINAL GRADE AND SEED	7,000	LF	\$ 1.50	\$ 10,500.00
14	30" STEEL CASING (JACK & BORE)	350	LF	\$ 440.00	\$ 154,000.00
15	ABANDON-IN-PLACE EX. 12" WATER MAIN	7,000	LF	\$ 2.50	\$ 17,500.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 26,550.00	\$ 26,550.00
17	TRAFFIC CONTROL	1	LS	\$ 5,500.00	\$ 5,500.00

**CONSTRUCTION COST** **\$ 1,325,510.00**

Bonds, Mobilization & Insurance	7%	\$ 92,785.70
Contingencies	10%	\$ 141,829.57

**CONSTRUCTION COST TOTAL** **\$ 1,560,125.27**

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 187,215.03
Easement Preparation & Acquisition	7,000	LF \$ 22.00 \$ 154,000.00
Surveying	7,000	LF \$ 3.00 \$ 21,000.00
Construction Admin	3%	\$ 46,803.76

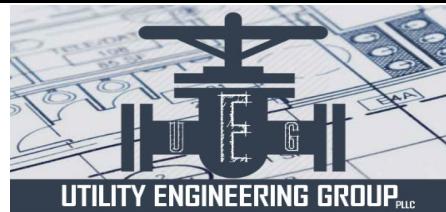
**TOTAL PROFESSIONAL SERVICES** **\$ 409,018.79**

**TOTAL PROJECT** **\$ 1,969,144.06**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P9 - 12" GIN ROAD - SANTA CLARA TO FM 2538

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	18,800	LF	\$ 2.00	\$ 37,600.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	18,800	LF	\$ 100.00	\$ 1,880,000.00
3	12" GATE VALVE & BOX (COMPLETE)	34	EA	\$ 5,800.00	\$ 197,200.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	28	EA	\$ 6,500.00	\$ 182,000.00
7	DUCTILE IRON FITTINGS	2	TON	\$ 7,800.00	\$ 11,700.00
8	FENCING REPAIR	5,500	LF	\$ 20.00	\$ 110,000.00
9	CONCRETE DRIVEWAY REPAIR	30	SY	\$ 75.00	\$ 2,250.00
10	ASPHALT DRIVEWAY REPAIR	190	SY	\$ 50.00	\$ 9,500.00
11	GRAVEL DRIVEWAY REPAIR	195	SY	\$ 30.00	\$ 5,850.00
12	REMOVE & REPLACE MAIL BOX	16	EA	\$ 350.00	\$ 5,600.00
13	FINAL GRADE AND SEED	18,800	LF	\$ 1.50	\$ 28,200.00
14	ABANDON-IN-PLACE EX. 8" WATER MAIN	18,000	LF	\$ 2.50	\$ 45,000.00
15	24" STEEL CASING (JACK & BORE)	450	LF	\$ 400.00	\$ 180,000.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 40,000.00	\$ 40,000.00
17	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 16,500.00

**CONSTRUCTION COST** \$ 2,758,900.00

Bonds, Mobilization & Insurance	7%	\$ 193,123.00
Contingencies	10%	\$ 295,202.30

**CONSTRUCTION COST TOTAL** \$ 3,247,225.30

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 389,667.04
Easement Preparation & Acquisition	18,800	LF \$ 22.00 \$ 413,600.00
Surveying	18,800	LF \$ 3.00 \$ 56,400.00
Construction Admin		3% \$ 97,416.76

**TOTAL PROFESSIONAL SERVICES** \$ 957,083.80

**TOTAL PROJECT** \$ 4,204,309.10

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P10 16" FM 1044 - HILLTOP ESTATES TO PLANT 2 DISTRIBUTION MAIN

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,500	LF	\$ 2.00	\$ 7,000.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	3,500	LF	\$ 120.00	\$ 420,000.00
3	16" GATE VALVE & BOX (COMPLETE)	8	EA	\$ 12,500.00	\$ 100,000.00
4	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
5	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,500.00	\$ 39,000.00
6	DUCTILE IRON FITTINGS	2.0	TON	\$ 7,800.00	\$ 15,600.00
7	FENCING REPAIR	3,000	LF	\$ 12.00	\$ 36,000.00
8	ASPHALT DRIVEWAY REPAIR	50	SY	\$ 50.00	\$ 2,500.00
9	CONCRETE DRIVEWAY REPAIR	10	SY	\$ 75.00	\$ 750.00
10	REMOVE AND REPLACE MAILBOX	6	EA	\$ 350.00	\$ 2,100.00
11	FINAL GRADE AND SEED	3,500	LF	\$ 1.50	\$ 5,250.00
12	ABANDON-IN-PLACE EX. 4" WATER MAIN	3,500	LF	\$ 2.50	\$ 8,750.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 11,500.00	\$ 11,500.00
14	TRAFFIC CONTROL	1	LS	\$ 4,000.00	\$ 4,000.00

**CONSTRUCTION COST** \$ 657,950.00

Bonds, Mobilization & Insurance	7%	\$ 46,056.50
Contingencies	10%	\$ 70,400.65

**CONSTRUCTION COST TOTAL** \$ 774,407.15

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 92,928.86
Easement Preparation & Acquisition	3,500	LF \$ 22.00 \$ 77,000.00
Surveying	3,500	LF \$ 3.00 \$ 10,500.00
Construction Admin		3% \$ 23,232.21

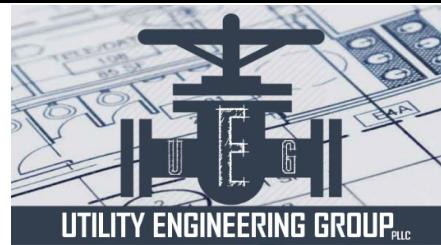
**TOTAL PROFESSIONAL SERVICES** \$ 203,661.07

**TOTAL PROJECT** \$ 978,068.22

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P11 12" N SANTA CLARA ROAD - PERSIMMON TRAIL TO FM 78/SANTA CLARA ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,030	LF	\$ 2.00	\$ 14,060.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	7,030	LF	\$ 100.00	\$ 703,000.00
3	12" GATE VALVE & BOX (COMPLETE)	5	EA	\$ 5,800.00	\$ 29,000.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
6	DUCTILE IRON FITTINGS	2.1	TON	\$ 7,800.00	\$ 16,380.00
7	FENCING REPAIR	2,500	LF	\$ 20.00	\$ 50,000.00
8	GRAVEL DRIVEWAY REPAIR	95	SY	\$ 30.00	\$ 2,850.00
9	ASPHALT DRIVEWAY REPAIR	34	SY	\$ 50.00	\$ 1,700.00
10	CONCRETE DRIVEWAY REPAIR	55	SY	\$ 75.00	\$ 4,125.00
11	REMOVE AND REPLACE MAILBOX	18	EA	\$ 350.00	\$ 6,300.00
12	FINAL GRADE AND SEED	7,030	LF	\$ 1.50	\$ 10,545.00
13	24" STEEL CASING (JACK & BORE)	320	LF	\$ 375.00	\$ 120,000.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	7,030	LF	\$ 2.50	\$ 17,575.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 6,100.00	\$ 6,100.00

**CONSTRUCTION COST** \$ 1,092,635.00

Bonds, Mobilization & Insurance	7%	\$ 76,484.45
Contingencies	10%	\$ 116,911.95

**CONSTRUCTION COST TOTAL** \$ 1,286,031.40

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 154,323.77
Easement Preparation & Acquisition	7,030	LF \$ 22.00
Surveying	7,030	LF \$ 3.00
Construction Admin	3%	\$ 38,580.94

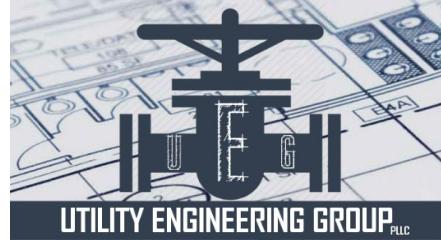
**TOTAL PROFESSIONAL SERVICES** \$ 368,654.71

**TOTAL PROJECT** \$ 1,654,686.10

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P12 - 16" SCWWTF BORDER MAIN  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	2,100	LF	\$ 2.00	\$ 4,200.00
2	16" C909 PVC DR18(CL 235), WTR LN (OP CT)	2,100	LF	\$ 120.00	\$ 252,000.00
3	16" GATE VALVE & BOX (COMPLETE)	8	EA	\$ 12,500.00	\$ 100,000.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	FIRE HYDRANT ASSEMBLY	5	EA	\$ 6,500.00	\$ 32,500.00
6	DUCTILE IRON FITTINGS	1.5	TON	\$ 7,800.00	\$ 11,700.00
7	FENCING REPAIR	200	LF	\$ 25.00	\$ 5,000.00
8	FINAL GRADE AND SEED	2,100	LF	\$ 1.50	\$ 3,150.00
9	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00

**CONSTRUCTION COST** \$ 422,550.00

Bonds, Mobilization, Prep ROW & Insurance	7%	\$ 29,578.50
Contingencies	10%	\$ 45,212.85

**CONSTRUCTION COST TOTAL** \$ 497,341.35

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 59,680.96	
Easement Preparation & Acquisition	2,100	LF \$ 22.00	\$ 46,200.00
Surveying	2,100	LF \$ 3.00	\$ 6,300.00
Construction Admin		3%	\$ 14,920.24

**TOTAL PROFESSIONAL SERVICES** \$ 127,101.20

**TOTAL PROJECT** \$ 624,442.55

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P13 8" CRYSTAL VALLEY DRIVE  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,230	LF	\$ 2.00	\$ 2,460.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,230	LF	\$ 90.00	\$ 110,700.00
3	8" GATE VALVE & BOX (COMPLETE)	5	EA	\$ 4,575.00	\$ 22,875.00
4	TIE-IN (COMPLETE)(8 IN)	2	EA	\$ 3,250.00	\$ 6,500.00
5	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
6	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
7	FENCING REPAIR	550	LF	\$ 1.00	\$ 550.00
8	ASPHALT DRIVEWAY REPAIR	105	SY	\$ 50.00	\$ 5,250.00
9	FINAL GRADE AND SEED	1,230	LF	\$ 1.50	\$ 1,845.00
10	24" STEEL CASING (JACK & BORE)	100	LF	\$ 400.00	\$ 40,000.00
11	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,188	LF	\$ 2.50	\$ 2,970.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 7,500.00	\$ 7,500.00
13	TRAFFIC CONTROL	1	LS	\$ 4,500.00	\$ 4,500.00

**CONSTRUCTION COST** \$ 224,390.00

Bonds, Mobilization & Insurance	7%	\$ 15,707.30
Contingencies	10%	\$ 24,009.73

**CONSTRUCTION COST TOTAL** \$ 264,107.03

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 31,692.84
Easement Preparation & Acquisition	1,230	LF \$ 22.00 \$ 27,060.00
Surveying	1,230	LF \$ 3.00 \$ 3,690.00
Construction Admin		3% \$ 7,923.21

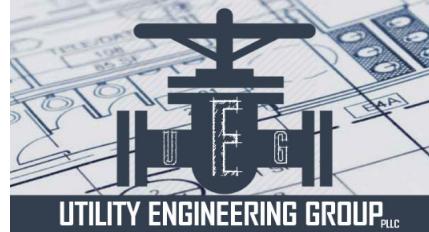
**TOTAL PROFESSIONAL SERVICES** \$ 70,366.05

**TOTAL PROJECT** \$ 334,473.08

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P14 8" GREEN VALLEY ROAD & 1044 FOR PLANT 2 TO PLANT 1 BACKFEED

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	575	LF	\$ 2.00	\$ 1,150.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	575	LF	\$ 90.00	\$ 51,750.00
3	8" GATE VALVE & BOX (COMPLETE)	3	EA	\$ 4,575.00	\$ 13,725.00
4	TIE-IN (COMPLETE)(8 IN)	2	EA	\$ 2,500.00	\$ 5,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	0.6	TON	\$ 7,800.00	\$ 4,680.00
7	FINAL GRADE AND SEED	575	LF	\$ 1.50	\$ 862.50
8	24" STEEL CASING (JACK & BORE)	150	LF	\$ 400.00	\$ 60,000.00
9	ABANDON-IN-PLACE EX. 4" WATER MAIN	350	LF	\$ 2.50	\$ 875.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 5,500.00	\$ 5,500.00
11	TRAFFIC CONTROL	1	LS	\$ 4,500.00	\$ 4,500.00

**CONSTRUCTION COST** \$ 154,542.50

Bonds, Mobilization, Prep ROW & Insurance	7%	\$ 10,817.98
Contingencies	10%	\$ 16,536.05

**CONSTRUCTION COST TOTAL** \$ 181,896.52

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 21,827.58
Easement Preparation & Acquisition	575	LF \$ 22.00 \$ 12,650.00
Surveying	575	LF \$ 3.00 \$ 1,725.00
Construction Admin		3% \$ 5,456.90

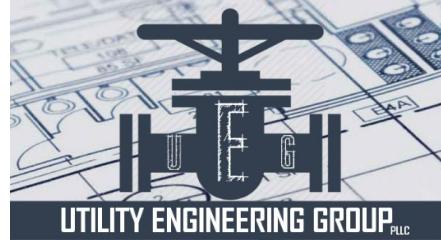
**TOTAL PROFESSIONAL SERVICES** \$ 41,659.48

**TOTAL PROJECT** \$ 223,556.00

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P15 8" MILLER ROAD - FM 2538 TO NEW BERLIN ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	12,050	LF	\$ 2.00	\$ 24,100.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	12,050	LF	\$ 90.00	\$ 1,084,500.00
3	8" GATE VALVE & BOX (COMPLETE)	27	EA	\$ 4,575.00	\$ 123,525.00
4	TIE-IN (COMPLETE)(4 IN)	3	EA	\$ 2,500.00	\$ 7,500.00
5	FIRE HYDRANT ASSEMBLY	20	EA	\$ 6,500.00	\$ 130,000.00
6	DUCTILE IRON FITTINGS	2.4	TON	\$ 7,800.00	\$ 18,720.00
7	FENCING REPAIR	6,000	LF	\$ 25.00	\$ 150,000.00
8	GRAVEL DRIVEWAY REPAIR	125	SY	\$ 30.00	\$ 3,750.00
9	ASPHALT DRIVEWAY REPAIR	155	SY	\$ 50.00	\$ 7,750.00
10	CONCRETE DRIVEWAY REPAIR	75	SY	\$ 75.00	\$ 5,625.00
11	REMOVE AND REPLACE MAILBOX	43	EA	\$ 350.00	\$ 15,050.00
12	FINAL GRADE AND SEED	12,050	LF	\$ 1.50	\$ 18,075.00
13	24" STEEL CASING (JACK & BORE)	320	LF	\$ 400.00	\$ 128,000.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	12,050	LF	\$ 2.50	\$ 30,125.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 16,900.00	\$ 16,900.00
16	TRAFFIC CONTROL	1	LS	\$ 8,500.00	\$ 8,500.00

**CONSTRUCTION COST** \$ 1,772,120.00

Bonds, Mobilization, Prep ROW & Insurance 7% \$ 124,048.40

Contingencies 10% \$ 189,616.84

**CONSTRUCTION COST TOTAL** \$ 2,085,785.24

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 250,294.23
Easement Preparation & Acquisition	12,050	LF \$ 22.00 \$ 265,100.00
Surveying	12,050	LF \$ 3.00 \$ 36,150.00
Construction Admin		3% \$ 62,573.56

**TOTAL PROFESSIONAL SERVICES** \$ 614,117.79

**TOTAL PROJECT** \$ 2,699,903.03

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P16 12" DEAN ROAD GREEN VALLEY ROAD TO OLD WIEDERSTEIN

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	4,700	LF	\$ 2.00	\$ 9,400.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	4,700	LF	\$ 100.00	\$ 470,000.00
3	12" GATE VALVE & BOX (COMPLETE)	10	EA	\$ 5,800.00	\$ 58,000.00
4	TIE-IN (COMPLETE)(24 IN)	1	EA	\$ 6,500.00	\$ 6,500.00
5	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
6	FIRE HYDRANT ASSEMBLY	8	EA	\$ 6,500.00	\$ 52,000.00
7	DUCTILE IRON FITTINGS	1.0	TON	\$ 7,800.00	\$ 7,800.00
8	FINAL GRADE AND SEED	4,700	LF	\$ 1.50	\$ 7,050.00
9	ABANDON-IN-PLACE EX. 2" WATER MAIN	2,000	LF	\$ 2.50	\$ 5,000.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 6,800.00	\$ 6,800.00
11	TRAFFIC CONTROL	1	LS	\$ 3,800.00	\$ 3,800.00

**CONSTRUCTION COST** \$ 634,350.00

Bonds, Mobilization & Insurance	7%	\$ 44,404.50
Contingencies	10%	\$ 67,875.45

**CONSTRUCTION COST TOTAL** \$ 746,629.95

### PROFESSIONAL SERVICES

Easement Preparation & Acquisition	4,700	LF	\$ 22.00	\$ 103,400.00
Construction Admin		3%		\$ 22,398.90

**TOTAL PROFESSIONAL SERVICES** \$ 125,798.90

**TOTAL PROJECT** \$ 872,428.85

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P17 - PLANT 9 IMPROVEMENTS  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.00	AC	\$ 4,000.00	\$ 4,000.00
2	24" DIP	500	LF	\$ 175.00	\$ 87,500.00
3	24" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 15,000.00	\$ 60,000.00
4	TIE-IN (COMPLETE)(24 IN)	2	EA	\$ 6,500.00	\$ 13,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	DEMO EXISTING PLANT 9 EST	1	LS	\$ 130,000.00	\$ 130,000.00
10	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

<b>CONSTRUCTION COST</b>					<b>\$ 4,176,600.00</b>
Bonds, Mobilization & Insurance		5%			\$ 208,830.00
Contingencies		10%			\$ 438,543.00

<b>CONSTRUCTION COST TOTAL</b>					<b>\$ 4,823,973.00</b>
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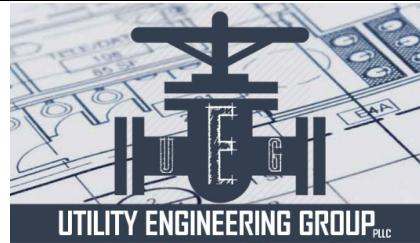
<b>PROFESSIONAL SERVICES</b>					
Basic Engineering		12%			\$ 578,876.76
Surveying		1	LS	\$ 4,500.00	\$ 4,500.00
Construction Admin		3%			\$ 144,719.19

<b>TOTAL PROFESSIONAL SERVICES</b>					<b>\$ 728,095.95</b>
<b>TOTAL PROJECT</b>					<b>\$ 5,552,068.95</b>

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P18 - 24" PIPE LINE IH-35 CROSSING

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	19,150	LF	\$ 2.00	\$ 38,300.00
2	24" C900 PVC DR14(CL 235), WTR LN (OP CT)	19,150	LF	\$ 175.00	\$ 3,351,250.00
3	24" GATE VALVE & BOX (COMPLETE)	17	EA	\$ 15,000.00	\$ 255,000.00
4	TIE-IN (COMPLETE)(24 IN)	2	EA	\$ 6,000.00	\$ 12,000.00
5	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
6	DUCTILE IRON FITTINGS	3.8	TON	\$ 7,800.00	\$ 29,640.00
7	CONCRETE DRIVEWAY REPAIR	22	SY	\$ 75.00	\$ 1,650.00
8	ASPHALT DRIVEWAY REPAIR	85	SY	\$ 50.00	\$ 4,250.00
9	GRAVEL DRIVEWAY REPAIR	30	SY	\$ 30.00	\$ 900.00
10	FINAL GRADE AND SEED	19,150	LF	\$ 1.50	\$ 28,725.00
11	36" STEEL CASING (JACK & BORE)	450	LF	\$ 500.00	\$ 225,000.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
13	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 28,000.00

**CONSTRUCTION COST** \$ 4,077,715.00

Bonds, Mobilization & Insurance	7%	\$ 285,440.05
Contingencies	10%	\$ 436,315.51

**CONSTRUCTION COST TOTAL** \$ 4,799,470.56

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 575,936.47	
Easement Preparation & Acquisition	19,150	LF \$ 22.00	\$ 421,300.00
Surveying	19,150	LF \$ 3.00	\$ 57,450.00
Construction Admin		3%	\$ 143,984.12

**TOTAL PROFESSIONAL SERVICES** \$ 1,198,670.58

**TOTAL PROJECT** \$ 5,998,141.14

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P19 16" SOUTHPOINT - PLANT 4 TO PLANT 12  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	2,300	LF	\$ 2.00	\$ 4,600.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	2,300	LF	\$ 120.00	\$ 276,000.00
3	16" GATE VALVE & BOX (COMPLETE)	5	EA	\$ 12,500.00	\$ 62,500.00
4	TIE-IN (COMPLETE)(8 IN)	2	EA	\$ 3,250.00	\$ 6,500.00
5	FIRE HYDRANT ASSEMBLY	3	EA	\$ 6,500.00	\$ 19,500.00
6	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
7	FINAL GRADE AND SEED	2,300	LF	\$ 1.50	\$ 3,450.00
8	30" STEEL CASING (JACK & BORE)	250	LF	\$ 400.00	\$ 100,000.00
9	ABANDON-IN-PLACE EX. 4" WATER MAIN	2,300	LF	\$ 2.50	\$ 5,750.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 3,500.00	\$ 3,500.00
11	TRAFFIC CONTROL	1	LS	\$ 1,500.00	\$ 1,500.00

**CONSTRUCTION COST** \$ 489,540.00

Bonds, Mobilization, Prep ROW & Insurance	7%	\$ 34,267.80
Contingencies	10%	\$ 52,380.78

**CONSTRUCTION COST TOTAL** \$ 576,188.58

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 69,142.63	
Easement Preparation & Acquisition	2,300	LF \$ 22.00	\$ 50,600.00
Surveying	2,300	LF \$ 3.00	\$ 6,900.00
Construction Admin		3%	\$ 17,285.66

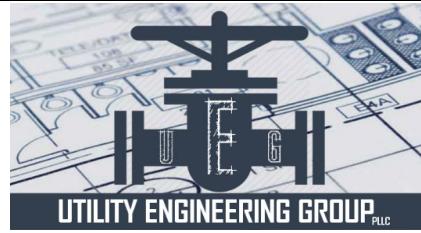
**TOTAL PROFESSIONAL SERVICES** \$ 143,928.29

**TOTAL PROJECT** \$ 720,116.87

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P20 12" IH 10 - SPUR TRAIL TO FM 725  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	9,250	LF	\$ 2.00	\$ 18,500.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	9,250	LF	\$ 100.00	\$ 925,000.00
3	12" GATE VALVE & BOX (COMPLETE)	18	EA	\$ 5,800.00	\$ 104,400.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	TIE-IN (COMPLETE)(2 IN)	1	EA	\$ 2,500.00	\$ 2,500.00
6	FIRE HYDRANT ASSEMBLY	14	EA	\$ 6,500.00	\$ 91,000.00
7	DUCTILE IRON FITTINGS	4.2	TON	\$ 7,800.00	\$ 32,760.00
8	ASPHALT DRIVEWAY REPAIR	35	SY	\$ 50.00	\$ 1,750.00
9	CONCRETE DRIVEWAY REPAIR	92	SY	\$ 75.00	\$ 6,900.00
10	REMOVE AND REPLACE MAIL BOX	23	EA	\$ 350.00	\$ 8,050.00
11	FINAL GRADE AND SEED	9,250	LF	\$ 1.50	\$ 13,875.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 16,800.00	\$ 16,800.00
13	TRAFFIC CONTROL	1	LS	\$ 5,500.00	\$ 5,500.00

<b>CONSTRUCTION COST</b>				<b>\$ 1,235,035.00</b>
	Bonds, Mobilization, Prep ROW & Insurance		7%	\$ 86,452.45
	Contingencies		10%	\$ 132,148.75

**CONSTRUCTION COST TOTAL** **\$ 1,453,636.20**

### PROFESSIONAL SERVICES

	Basic Engineering		12%		\$ 174,436.34
	Easement Preparation & Acquisition	9,250	LF	\$ 22.00	\$ 203,500.00
	Surveying	9,250	LF	\$ 3.00	\$ 27,750.00
	Construction Admin		3%		\$ 43,609.09

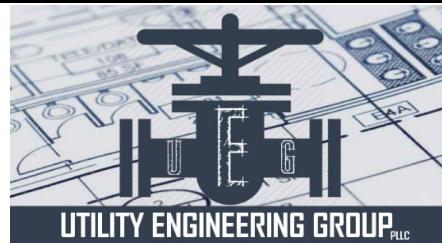
**TOTAL PROFESSIONAL SERVICES** **\$ 449,295.43**

**TOTAL PROJECT** **\$ 1,902,931.62**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P21 12" IH 10 - PIONEER ROAD TO NICKERSON FARMS ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	4,420	LF	\$ 2.00	\$ 8,840.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	4,420	LF	\$ 100.00	\$ 442,000.00
3	12" GATE VALVE & BOX (COMPLETE)	9	EA	\$ 5,800.00	\$ 52,200.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(2 IN)	1	EA	\$ 2,500.00	\$ 2,500.00
6	FIRE HYDRANT ASSEMBLY	7	EA	\$ 6,500.00	\$ 45,500.00
7	DUCTILE IRON FITTINGS	1.1	TON	\$ 7,800.00	\$ 8,580.00
8	ASPHALT DRIVEWAY REPAIR	35	SY	\$ 50.00	\$ 1,750.00
9	FINAL GRADE AND SEED	4,420	LF	\$ 1.50	\$ 6,630.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
11	TRAFFIC CONTROL	1	LS	\$ 3,800.00	\$ 3,800.00

**CONSTRUCTION COST** \$ 585,800.00

Bonds, Mobilization & Insurance 7% \$ 41,006.00

Contingencies 10% \$ 62,680.60

**CONSTRUCTION COST TOTAL** \$ 689,486.60

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 82,738.39
Easement Preparation & Acquisition	4,420	LF	\$ 22.00	\$ 97,240.00
Surveying	4,420	LF	\$ 3.00	\$ 13,260.00
Construction Admin		3%		\$ 20,684.60

**TOTAL PROFESSIONAL SERVICES** \$ 213,922.99

**TOTAL PROJECT** \$ 903,409.59

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P22 8" PARTNERSHIP ROAD - FM 775 TO CR 311  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	4,500	LF	\$ 2.00	\$ 9,000.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	4,500	LF	\$ 90.00	\$ 405,000.00
3	8" GATE VALVE & BOX (COMPLETE)	9	EA	\$ 4,575.00	\$ 41,175.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,250.00	\$ 3,250.00
6	FIRE HYDRANT ASSEMBLY	7	EA	\$ 6,500.00	\$ 45,500.00
7	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
8	FENCING REPAIR	950	LF	\$ 15.00	\$ 14,250.00
9	GRAVEL DRIVEWAY REPAIR	86	SY	\$ 30.00	\$ 2,580.00
10	ASPHALT DRIVEWAY REPAIR	15	SY	\$ 50.00	\$ 750.00
11	FINAL GRADE AND SEED	4,500	LF	\$ 1.50	\$ 6,750.00
12	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,200	LF	\$ 2.50	\$ 3,000.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
14	TRAFFIC CONTROL	1	LS	\$ 3,500.00	\$ 3,500.00

**CONSTRUCTION COST** \$ 554,995.00

Bonds, Mobilization & Insurance	7%	\$ 38,849.65
Contingencies	10%	\$ 59,384.47

**CONSTRUCTION COST TOTAL** \$ 653,229.12

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 78,387.49
Easement Preparation & Acquisition	4,500	LF \$ 22.00
Surveying	4,500	LF \$ 3.00
Construction Admin	3%	\$ 19,596.87

**TOTAL PROFESSIONAL SERVICES** \$ 210,484.37

**TOTAL PROJECT** \$ 863,713.48

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P23 - 12" PIPE LINE ALONG TERMINAL LOOP  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/18/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE ROW	2,850	LF	\$ 2.00	\$ 5,700.00
2	12" C909 PVC DR18(CL 150), WTR LN (OP CT)	2,850	LF	\$ 100.00	\$ 285,000.00
3	12" GATE VALVE & BOX (COMPLETE)	9	EA	\$ 5,800.00	\$ 52,200.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 2,700.00	\$ 2,700.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	5	EA	\$ 6,500.00	\$ 32,500.00
7	DUCTILE IRON FITTINGS	2.0	TON	\$ 7,800.00	\$ 15,600.00
8	CONCRETE DRIVEWAY REPAIR	65	SY	\$ 75.00	\$ 4,875.00
9	FENCING REPAIR	2,500	LF	\$ 15.00	\$ 37,500.00
10	ABANDON-IN PLACE EX. 6" WATER MAIN	1,850	LF	\$ 2.50	\$ 4,625.00
11	FINAL GRADE AND SEED	2,850	LF	\$ 1.50	\$ 4,275.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	LS	\$ 9,350.00	\$ 9,350.00
13	TRAFFIC CONTROL	1	LS	\$ 3,500.00	\$ 3,500.00

<b>CONSTRUCTION COST</b>				<b>\$ 461,825.00</b>
Bonds, Mobilization & Insurance		7%		\$ 32,327.75
Contingencies		10%		\$ 49,415.28

<b>CONSTRUCTION COST TOTAL</b>				<b>\$ 543,568.03</b>
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<b>PROFESSIONAL SERVICES</b>				
Basic Engineering		12%		\$ 65,228.16
Easement Preparation & Acquisition	2850	LF	\$ 22.00	\$ 62,700.00
Surveying	2850	LF	\$ 3.00	\$ 8,550.00
Construction Admin		3%		\$ 13,589.20

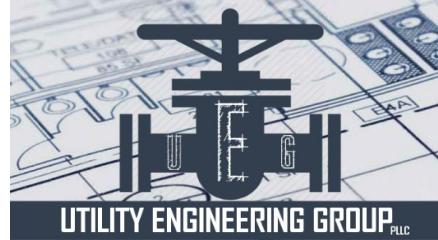
<b>TOTAL PROFESSIONAL SERVICES</b>				<b>\$ 150,067.36</b>
<b>TOTAL PROJECT</b>				<b>\$ 693,635.39</b>

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*CIP Projects Year 2030-2034*



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P24 16" FM 725 - GUADALUPE BEND TO TERMINAL LOOP

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	10,200	LF	\$ 2.00	\$ 20,400.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	10,200	LF	\$ 120.00	\$ 1,224,000.00
3	16" GATE VALVE & BOX (COMPLETE)	25	EA	\$ 12,500.00	\$ 312,500.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	FIRE HYDRANT ASSEMBLY	17	EA	\$ 6,500.00	\$ 110,500.00
6	DUCTILE IRON FITTINGS	1.9	TON	\$ 7,800.00	\$ 14,820.00
7	FINAL GRADE AND SEED	10,200	LF	\$ 1.50	\$ 15,300.00
8	24" STEEL CASING (JACK & BORE)	270	LF	\$ 400.00	\$ 108,000.00
9	GRAVEL DRIVEWAY REPAIR	105	SY	\$ 30.00	\$ 3,150.00
10	CONCRETE DRIVEWAY REPAIR	30	SY	\$ 75.00	\$ 2,250.00
11	ABANDON-IN-PLACE EX. 12" WATER MAIN	10,200	LF	\$ 2.50	\$ 25,500.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 28,000.00	\$ 28,000.00
13	TRAFFIC CONTROL	1	LS	\$ 16,600.00	\$ 16,600.00

**CONSTRUCTION COST** \$ 1,889,020.00

Bonds, Mobilization & Insurance	7%	\$ 132,231.40
Contingencies	10%	\$ 202,125.14

**CONSTRUCTION COST TOTAL** \$ 2,223,376.54

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 266,805.18
Easement Preparation & Acquisition	10,200	LF \$ 22.00
Surveying	10,200	LF \$ 3.00
Construction Admin	3%	\$ 66,701.30

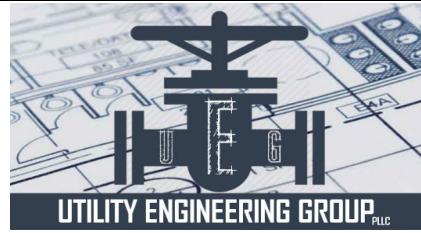
**TOTAL PROFESSIONAL SERVICES** \$ 588,506.48

**TOTAL PROJECT** \$ 2,811,883.02

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P25 12" ALONG FM 482  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	10,900	LF	\$ 2.00	\$ 21,800.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	10,900	LF	\$ 100.00	\$ 1,090,000.00
3	12" GATE VALVE & BOX (COMPLETE)	21	EA	\$ 5,800.00	\$ 121,800.00
4	TIE-IN (COMPLETE)(24 IN)	1	EA	\$ 6,000.00	\$ 6,000.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	18	EA	\$ 6,500.00	\$ 117,000.00
7	DUCTILE IRON FITTINGS	2.1	TON	\$ 7,800.00	\$ 16,380.00
8	FENCE REPAIR	6,500	LF	\$ 20.00	\$ 130,000.00
9	GRAVEL DRIVEWAY REPAIR	105	SY	\$ 30.00	\$ 3,150.00
10	ASPHALT DRIVEWAY REPAIR	150	SY	\$ 50.00	\$ 7,500.00
11	CONCRETE DRIVEWAY REPAIR	90	SY	\$ 75.00	\$ 6,750.00
12	24" STEEL CASING (JACK & BORE)	190	LF	\$ 400.00	\$ 76,000.00
13	FINAL GRADE AND SEED	10,900	LF	\$ 1.50	\$ 16,350.00
14	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 28,000.00	\$ 28,000.00
15	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 16,500.00

**CONSTRUCTION COST** \$ 1,661,230.00

Bonds, Mobilization, Prep ROW & Insurance	7%	\$ 116,286.10
Contingencies	10%	\$ 177,751.61

**CONSTRUCTION COST TOTAL** \$ 1,955,267.71

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 234,632.13
Easement Preparation & Acquisition	10,900	LF \$ 22.00 \$ 239,800.00
Surveying	10,900	LF \$ 3.00 \$ 32,700.00
Construction Admin		3% \$ 58,658.03

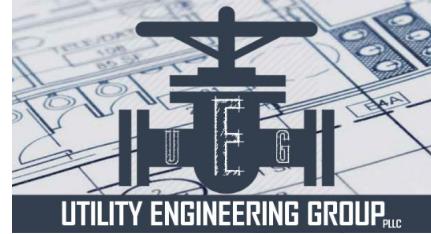
**TOTAL PROFESSIONAL SERVICES** \$ 565,790.16

**TOTAL PROJECT** \$ 2,521,057.87

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P26 - PLANT 17 WELL SIDE BOOSTER STATION, GST & EST

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	0.5 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 2,128,000.00	\$ 2,128,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION	1	LS	\$ 2,120,000.00	\$ 2,120,000.00
11	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

**CONSTRUCTION COST** \$ 6,732,100.00

Bonds, Mobilization & Insurance	7%	\$ 471,247.00
Contingencies	10%	\$ 720,334.70

**CONSTRUCTION COST TOTAL** \$ 7,923,681.70

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 950,841.80
Surveying	1	LS
Construction Admin	3%	\$ 237,710.45

**TOTAL PROFESSIONAL SERVICES** \$ 1,195,052.26

**TOTAL PROJECT** \$ 9,118,733.96

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P27 12" COUNTRY LANE - TOLLE ROAD TO CROSS FM 78

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	2,950	LF	\$ 2.00	\$ 5,900.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	2,950	LF	\$ 100.00	\$ 295,000.00
3	12" GATE VALVE & BOX (COMPLETE)	10	EA	\$ 5,800.00	\$ 58,000.00
4	TIE-IN (COMPLETE)(24 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	5	EA	\$ 4,400.00	\$ 22,000.00
6	DUCTILE IRON FITTINGS	1.6	TON	\$ 7,800.00	\$ 12,480.00
7	FENCING REPAIR	150	LF	\$ 28.00	\$ 4,200.00
8	GRAVEL DRIVEWAY REPAIR	35	SY	\$ 30.00	\$ 1,050.00
9	ASPHALT DRIVEWAY REPAIR	55	SY	\$ 50.00	\$ 2,750.00
10	CONCRETE DRIVEWAY REPAIR	15	SY	\$ 75.00	\$ 1,125.00
11	REMOVE & REPLACE MAILBOX	9	EA	\$ 350.00	\$ 3,150.00
12	FINAL GRADE AND SEED	2,950	LF	\$ 1.50	\$ 4,425.00
13	ABANDON-IN-PLACE EX. 4" WATER MAIN	2,950	LF	\$ 2.50	\$ 7,375.00
14	24" STEEL CASING (JACK & BORE)	200	LF	\$ 400.00	\$ 80,000.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
16	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 2,000.00

**CONSTRUCTION COST** \$ 520,455.00

Bonds, Mobilization & Insurance 7% \$ 36,431.85

Contingencies 10% \$ 55,688.69

**CONSTRUCTION COST TOTAL** \$ 612,575.54

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 73,509.06
Easement Preparation & Acquisition	2,950	LF	\$ 22.00	\$ 64,900.00
Surveying	2,950	LF	\$ 3.00	\$ 8,850.00
Construction Admin		3%		\$ 18,377.27

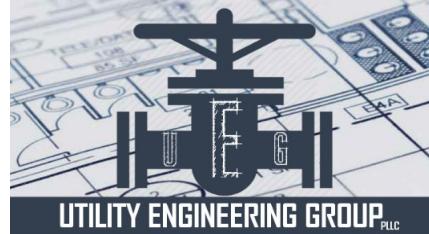
**TOTAL PROFESSIONAL SERVICES** \$ 165,636.33

**TOTAL PROJECT** \$ 778,211.87

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P28 - PLANT 18 IH10 & SPUR TRAIL  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION	1	LS	\$ 1,955,000.00	\$ 1,955,000.00
11	OFFSITE WATERLINE CONNECTION	1	LS	\$ 5,954,580.97	\$ 5,954,580.97
12	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

<b>CONSTRUCTION COST</b>				<b>\$ 14,043,680.97</b>
Bonds, Mobilization & Insurance		7%		\$ 983,057.67
Contingencies		10%		\$ 1,502,673.86

<b>CONSTRUCTION COST TOTAL</b>				<b>\$ 16,529,412.50</b>
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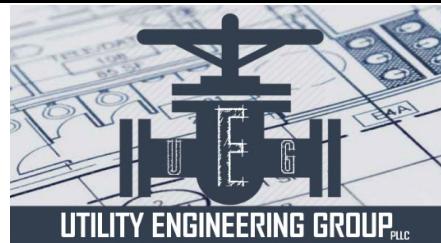
<b>PROFESSIONAL SERVICES</b>				
Basic Engineering		12%		\$ 1,983,529.50
Surveying	1	LS	\$ 6,500.00	\$ 6,500.00
Land Purchase	1	LS	\$ 105,000.00	\$ 105,000.00
Construction Admin		3%		\$ 495,882.38

<b>TOTAL PROFESSIONAL SERVICES</b>				<b>\$ 2,590,911.88</b>
<b>TOTAL PROJECT</b>				<b>\$ 19,120,324.38</b>

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P29 12" WEIL ROAD - ANN AUSTIN TO MARION ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	8,000	LF	\$ 2.00	\$ 16,000.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	8,000	LF	\$ 100.00	\$ 800,000.00
3	12" GATE VALVE & BOX (COMPLETE)	19	EA	\$ 5,800.00	\$ 110,200.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,250.00	\$ 3,250.00
6	FIRE HYDRANT ASSEMBLY	13	EA	\$ 6,500.00	\$ 84,500.00
7	DUCTILE IRON FITTINGS	1.4	TON	\$ 7,800.00	\$ 10,920.00
8	FENCING REPAIR	4,500	LF	\$ 20.00	\$ 90,000.00
9	GRAVEL DRIVEWAY REPAIR	96	SY	\$ 30.00	\$ 2,880.00
10	ASPHALT DRIVEWAY REPAIR	65	SY	\$ 50.00	\$ 3,250.00
11	CONCRETE DRIVEWAY REPAIR	35	SY	\$ 75.00	\$ 2,625.00
12	FINAL GRADE AND SEED	8,000	LF	\$ 1.50	\$ 12,000.00
13	24" STEEL CASING (JACK & BORE)	150	LF	\$ 400.00	\$ 60,000.00
14	ABANDON-IN-PLACE EX. 8" WATER MAIN	8,000	LF	\$ 2.50	\$ 20,000.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 9,800.00	\$ 9,800.00

**CONSTRUCTION COST** \$ 1,254,425.00

Bonds, Mobilization & Insurance	7%	\$ 87,809.75
Contingencies	10%	\$ 134,223.48

**CONSTRUCTION COST TOTAL** \$ 1,476,458.23

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 177,174.99
Easement Preparation & Acquisition	8,000	LF \$ 22.00 \$ 176,000.00
Surveying	8,000	LF \$ 3.00 \$ 24,000.00
Construction Admin		3% \$ 44,293.75

**TOTAL PROFESSIONAL SERVICES** \$ 421,468.73

**TOTAL PROJECT** \$ 1,897,926.96

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P30 16" FM 78 - VENADO TO HAECKERVILLE ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,200	LF	\$ 2.00	\$ 14,400.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	7,200	LF	\$ 120.00	\$ 864,000.00
3	16" GATE VALVE & BOX (COMPLETE)	19	EA	\$ 12,500.00	\$ 237,500.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
7	DUCTILE IRON FITTINGS	1.3	TON	\$ 7,800.00	\$ 10,140.00
8	FENCING REPAIR	3,000	LF	\$ 20.00	\$ 60,000.00
9	GRAVEL DRIVEWAY REPAIR	65	SY	\$ 30.00	\$ 1,950.00
10	ASPHALT DRIVEWAY REPAIR	165	SY	\$ 50.00	\$ 8,250.00
11	REMOVE AND REPLACE MAILBOX	7	EA	\$ 350.00	\$ 2,450.00
12	FINAL GRADE AND SEED	7,200	LF	\$ 1.50	\$ 10,800.00
13	30" STEEL CASING (JACK & BORE)	320	LF	\$ 440.00	\$ 140,800.00
14	ABANDON-IN-PLACE EX. 8" WATER MAIN	4,500	LF	\$ 2.50	\$ 11,250.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 8,600.00	\$ 8,600.00

**CONSTRUCTION COST** \$ 1,482,640.00

Bonds, Mobilization & Insurance	7%	\$ 103,784.80
Contingencies	10%	\$ 158,642.48

**CONSTRUCTION COST TOTAL** \$ 1,745,067.28

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 209,408.07
Easement Preparation & Acquisition	7,200	LF \$ 22.00
Surveying	7,200	LF \$ 3.00
Construction Admin		3% \$ 52,352.02

**TOTAL PROFESSIONAL SERVICES** \$ 441,760.09

**TOTAL PROJECT** \$ 2,186,827.37

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P31 8" LOWER VALLE LN - WEIR ROAD TO HAECKERVILLE ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	5,600	LF	\$ 2.00	\$ 11,200.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	5,600	LF	\$ 90.00	\$ 504,000.00
3	8" GATE VALVE & BOX (COMPLETE)	11	EA	\$ 4,575.00	\$ 50,325.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 2,500.00	\$ 2,500.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	9	EA	\$ 6,500.00	\$ 58,500.00
7	DUCTILE IRON FITTINGS	1.9	TON	\$ 7,800.00	\$ 14,820.00
8	FENCING REPAIR	3,000	LF	\$ 20.00	\$ 60,000.00
9	DRIVEWAY REPAIR	16	EA	\$ 750.00	\$ 12,000.00
10	FINAL GRADE AND SEED	5,600	LF	\$ 1.50	\$ 8,400.00
11	ABANDON-IN-PLACE EX. 2" WATER MAIN	4,500	LF	\$ 2.50	\$ 11,250.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 20,000.00	\$ 20,000.00
13	TRAFFIC CONTROL	1	LS	\$ 6,600.00	\$ 6,600.00

**CONSTRUCTION COST** \$ 765,095.00

Bonds, Mobilization & Insurance	7%	\$ 53,556.65
Contingencies	10%	\$ 81,865.17

**CONSTRUCTION COST TOTAL** \$ 900,516.82

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 108,062.02
Easement Preparation & Acquisition	5,600	LF \$ 22.00 \$ 123,200.00
Surveying	5,600	LF \$ 3.00 \$ 16,800.00
Construction Admin		3% \$ 27,015.50

**TOTAL PROFESSIONAL SERVICES** \$ 275,077.52

**TOTAL PROJECT** \$ 1,175,594.34

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P32 16" LOWER SEGUIN ROAD - HAECKERVILLE ROAD TO PLANT 15

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	10,650	LF	\$ 2.00	\$ 21,300.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	10,650	LF	\$ 120.00	\$ 1,278,000.00
3	16" GATE VALVE & BOX (COMPLETE)	21	EA	\$ 12,500.00	\$ 262,500.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	17	EA	\$ 6,500.00	\$ 110,500.00
6	DUCTILE IRON FITTINGS	2.0	TON	\$ 7,800.00	\$ 15,600.00
7	FENCING REPAIR	2,500	LF	\$ 20.00	\$ 50,000.00
8	GRAVEL DRIVEWAY REPAIR	185	SY	\$ 30.00	\$ 5,550.00
9	ASPHALT DRIVEWAY REPAIR	45	SY	\$ 50.00	\$ 2,250.00
10	CONCRETE DRIVEWAY REPAIR	10	SY	\$ 75.00	\$ 750.00
11	FINAL GRADE AND SEED	10,650	LF	\$ 1.50	\$ 15,975.00
12	30" STEEL CASING (JACK & BORE)	120	LF	\$ 440.00	\$ 52,800.00
13	ABANDON-IN-PLACE EX. 4" WATER MAIN	6,000	LF	\$ 2.50	\$ 15,000.00
14	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 28,000.00	\$ 28,000.00
15	TRAFFIC CONTROL	1	LS	\$ 12,400.00	\$ 12,400.00

**CONSTRUCTION COST** \$ 1,881,625.00

Bonds, Mobilization & Insurance \$ 131,713.75

Contingencies \$ 201,333.88

**CONSTRUCTION COST TOTAL** \$ 2,214,672.63

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 265,760.72
Easement Preparation & Acquisition	10,650	LF	\$ 22.00	\$ 234,300.00
Surveying	10,650	LF	\$ 3.00	\$ 31,950.00
Construction Admin		3%		\$ 66,440.18

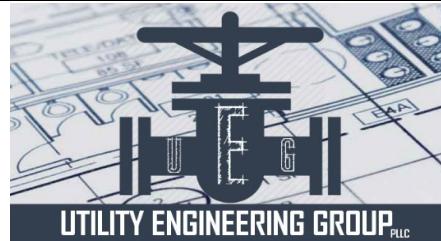
**TOTAL PROFESSIONAL SERVICES** \$ 598,450.89

**TOTAL PROJECT** \$ 2,813,123.52

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P33 16" SCHMOEKEL ROAD - STOLTE TO SANTA CLARA ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	9,050	LF	\$ 2.00	\$ 18,100.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	9,050	LF	\$ 120.00	\$ 1,086,000.00
3	16" GATE VALVE & BOX (COMPLETE)	17	EA	\$ 12,500.00	\$ 212,500.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	15	EA	\$ 6,500.00	\$ 97,500.00
7	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
8	GRAVEL DRIVEWAY REPAIR	105	SY	\$ 30.00	\$ 3,150.00
9	ASPHALT DRIVEWAY REPAIR	15	SY	\$ 50.00	\$ 750.00
10	REMOVE AND REPLACE MAILBOX	8	EA	\$ 350.00	\$ 2,800.00
11	FINAL GRADE AND SEED	9,050	LF	\$ 1.50	\$ 13,575.00
12	ABANDON-IN-PLACE EX. 2" WATER MAIN	6,000	LF	\$ 2.50	\$ 15,000.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 26,000.00	\$ 26,000.00
14	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 8,800.00

**CONSTRUCTION COST** \$ 1,499,915.00

Bonds, Mobilization & Insurance	7%	\$ 104,994.05
Contingencies	10%	\$ 160,490.91

**CONSTRUCTION COST TOTAL** \$ 1,765,399.96

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 211,847.99
Easement Preparation & Acquisition	9,050	LF \$ 22.00 \$ 199,100.00
Surveying	9,050	LF \$ 3.00 \$ 27,150.00
Construction Admin		3% \$ 52,962.00

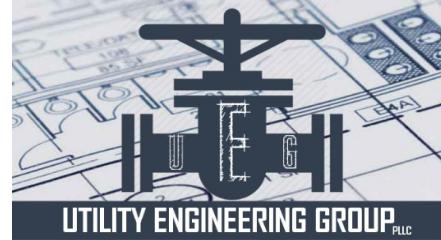
**TOTAL PROFESSIONAL SERVICES** \$ 491,059.99

**TOTAL PROJECT** \$ 2,256,459.95

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P34 16" FM 1044 WINDING CREEK RANCH TO YOUNGSFORD ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	5,850	LF	\$ 2.00	\$ 11,700.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	5,850	LF	\$ 120.00	\$ 702,000.00
3	16" GATE VALVE & BOX (COMPLETE)	16	EA	\$ 12,500.00	\$ 200,000.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 2,500.00	\$ 2,500.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
7	DUCTILE IRON FITTINGS	1.8	TON	\$ 7,800.00	\$ 14,040.00
8	FENCING REPAIR	1,500	LF	\$ 20.00	\$ 30,000.00
9	GRAVEL DRIVEWAY REPAIR	132	SY	\$ 30.00	\$ 3,960.00
10	ASPHALT DRIVEWAY REPAIR	25	SY	\$ 50.00	\$ 1,250.00
11	CONCRETE DRIVEWAY REPAIR	45	SY	\$ 75.00	\$ 3,375.00
12	FINAL GRADE AND SEED	5,850	LF	\$ 1.50	\$ 8,775.00
13	30" STEEL CASING (JACK & BORE)	175	LF	\$ 440.00	\$ 77,000.00
14	ABANDON-IN-PLACE EX. 6" WATER MAIN	5,850	LF	\$ 2.50	\$ 14,625.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 22,000.00	\$ 22,000.00
16	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 6,800.00

**CONSTRUCTION COST** \$ 1,181,525.00

Bonds, Mobilization & Insurance	7%	\$ 82,706.75
Contingencies	10%	\$ 126,423.18

**CONSTRUCTION COST TOTAL** \$ 1,390,654.93

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 166,878.59
Easement Preparation & Acquisition	5,850	LF \$ 22.00 \$ 128,700.00
Surveying	5,850	LF \$ 3.00 \$ 17,550.00
Construction Admin		3% \$ 41,719.65

**TOTAL PROFESSIONAL SERVICES** \$ 354,848.24

**TOTAL PROJECT** \$ 1,745,503.16

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P35 16" WEIL ROAD - BRITE ROAD TO COUNTRY VALE

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	2,400	LF	\$ 2.00	\$ 4,800.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	2,400	LF	\$ 120.00	\$ 288,000.00
3	16" GATE VALVE & BOX (COMPLETE)	7	EA	\$ 12,500.00	\$ 87,500.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	4	EA	\$ 6,500.00	\$ 26,000.00
6	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
7	GRAVEL DRIVEWAY REPAIR	90	SY	\$ 30.00	\$ 2,700.00
8	ASPHALT DRIVEWAY REPAIR	35	SY	\$ 50.00	\$ 1,750.00
9	CONCRETE DRIVEWAY REPAIR	55	SY	\$ 75.00	\$ 4,125.00
10	FINAL GRADE AND SEED	2,400	LF	\$ 1.50	\$ 3,600.00
11	ABANDON-IN-PLACE EX. 4" WATER MAIN	2,000	LF	\$ 2.50	\$ 5,000.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
13	TRAFFIC CONTROL	1	LS	\$ 3,000.00	\$ 3,000.00

**CONSTRUCTION COST** \$ 453,715.00

Bonds, Mobilization & Insurance	7%	\$ 31,760.05
Contingencies	10%	\$ 48,547.51

**CONSTRUCTION COST TOTAL** \$ 534,022.56

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 64,082.71
Easement Preparation & Acquisition	2,400	LF \$ 22.00 \$ 52,800.00
Surveying	2,400	LF \$ 3.00 \$ 7,200.00
Construction Admin		3% \$ 16,020.68

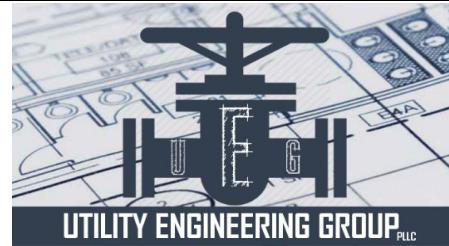
**TOTAL PROFESSIONAL SERVICES** \$ 140,103.38

**TOTAL PROJECT** \$ 674,125.94

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P36 16" ZUEHL ROAD - BOLTON ROAD TO CROSS IH 10

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,530	LF	\$ 2.00	\$ 3,060.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	1,530	LF	\$ 120.00	\$ 183,600.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
6	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
7	DUCTILE IRON FITTINGS	1.3	TON	\$ 7,800.00	\$ 10,140.00
8	FINAL GRADE AND SEED	1,530	LF	\$ 1.50	\$ 2,295.00
9	30" STEEL CASING (JACK & BORE)	250	LF	\$ 440.00	\$ 110,000.00
10	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,100	LF	\$ 2.50	\$ 2,750.00
11	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
12	TRAFFIC CONTROL	1	LS	\$ 3,300.00	\$ 3,300.00

**CONSTRUCTION COST** \$ 394,645.00

Bonds, Mobilization & Insurance	7%	\$ 27,625.15
Contingencies	10%	\$ 42,227.02

**CONSTRUCTION COST TOTAL** \$ 464,497.17

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 55,739.66
Easement Preparation & Acquisition	1,530	LF \$ 22.00 \$ 33,660.00
Surveying	1,530	LF \$ 3.00 \$ 4,590.00
Construction Admin		3% \$ 13,934.91

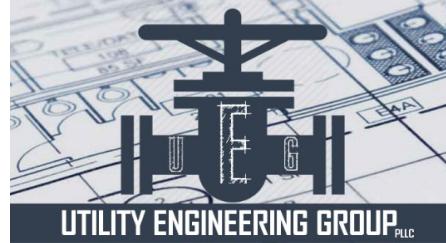
**TOTAL PROFESSIONAL SERVICES** \$ 107,924.57

**TOTAL PROJECT** \$ 572,421.74

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P37 8" E ZIPP ROAD - FM 725 TO RIVER BEND  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	2,300	LF	\$ 2.00	\$ 4,600.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	2,300	LF	\$ 90.00	\$ 207,000.00
3	8" GATE VALVE & BOX (COMPLETE)	7	EA	\$ 4,575.00	\$ 32,025.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
6	FIRE HYDRANT ASSEMBLY	4	EA	\$ 6,500.00	\$ 26,000.00
7	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
8	GRAVEL DRIVEWAY REPAIR	150	SY	\$ 30.00	\$ 4,500.00
9	ASPHALT DRIVEWAY REPAIR	20	SY	\$ 50.00	\$ 1,000.00
10	CONCRETE DRIVEWAY REPAIR	15	SY	\$ 75.00	\$ 1,125.00
11	REMOVE AND REPLACE MAILBOX	14	EA	\$ 350.00	\$ 4,900.00
12	FINAL GRADE AND SEED	2,300	LF	\$ 1.50	\$ 3,450.00
13	30" STEEL CASING (JACK & BORE)	320	LF	\$ 440.00	\$ 140,800.00
14	ABANDON-IN-PLACE EX. 6" WATER MAIN	2,300	LF	\$ 2.50	\$ 5,750.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
16	TRAFFIC CONTROL	1	LS	\$ 2,600.00	\$ 2,600.00

**CONSTRUCTION COST** \$ 456,490.00

Bonds, Mobilization & Insurance	7%	\$ 31,954.30
Contingencies	10%	\$ 48,844.43

**CONSTRUCTION COST TOTAL** \$ 537,288.73

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 64,474.65
Easement Preparation & Acquisition	2,300	LF \$ 22.00 \$ 50,600.00
Surveying	2,300	LF \$ 3.00 \$ 6,900.00
Construction Admin		3% \$ 16,118.66

**TOTAL PROFESSIONAL SERVICES** \$ 138,093.31

**TOTAL PROJECT** \$ 675,382.04

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P38 16" STAGECOACH ROAD - SANTA CLARA TO PIONEER ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	27,000	LF	\$ 2.00	\$ 54,000.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	27,000	LF	\$ 120.00	\$ 3,240,000.00
3	16" GATE VALVE & BOX (COMPLETE)	57	EA	\$ 12,500.00	\$ 712,500.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	45	EA	\$ 6,500.00	\$ 292,500.00
6	DUCTILE IRON FITTINGS	3.8	TON	\$ 7,800.00	\$ 29,640.00
7	FENCING REPAIR	3,000	LF	\$ 20.00	\$ 60,000.00
8	GRAVEL DRIVEWAY REPAIR	205	SY	\$ 30.00	\$ 6,150.00
9	ASPHALT DRIVEWAY REPAIR	105	SY	\$ 50.00	\$ 5,250.00
10	CONCRETE DRIVEWAY REPAIR	80	SY	\$ 75.00	\$ 6,000.00
11	REMOVE AND REPLACE MAILBOX	23	EA	\$ 350.00	\$ 8,050.00
12	FINAL GRADE AND SEED	27,000	LF	\$ 1.50	\$ 40,500.00
13	30" STEEL CASING (JACK & BORE)	750	LF	\$ 440.00	\$ 330,000.00
14	ABANDON-IN-PLACE EX. 12" WATER MAIN	27,000	LF	\$ 2.50	\$ 67,500.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 75,000.00	\$ 75,000.00
16	TRAFFIC CONTROL	1	LS	\$ 22,600.00	\$ 22,600.00

**CONSTRUCTION COST** \$ 4,960,690.00

Bonds, Mobilization & Insurance	7%	\$ 347,248.30
Contingencies	10%	\$ 530,793.83

**CONSTRUCTION COST TOTAL** \$ 5,838,732.13

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 700,647.86
Easement Preparation & Acquisition	27,000	LF \$ 22.00 \$ 594,000.00
Surveying	27,000	LF \$ 3.00 \$ 81,000.00
Construction Admin	3%	\$ 175,161.96

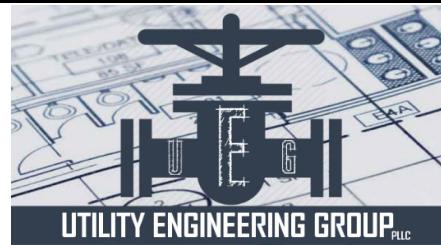
**TOTAL PROFESSIONAL SERVICES** \$ 1,550,809.82

**TOTAL PROJECT** \$ 7,389,541.95

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P39 16" GREEN VALLEY ROAD - PLANT 1 TO PLANT 2

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	31,500	LF	\$ 2.00	\$ 63,000.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	31,500	LF	\$ 120.00	\$ 3,780,000.00
3	16" GATE VALVE & BOX (COMPLETE)	62	EA	\$ 12,500.00	\$ 775,000.00
4	TIE-IN (COMPLETE)(24 IN)	1	EA	\$ 6,000.00	\$ 6,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	52	EA	\$ 6,500.00	\$ 338,000.00
7	DUCTILE IRON FITTINGS	4.1	TON	\$ 7,800.00	\$ 31,980.00
8	FENCING REPAIR	11,500	LF	\$ 20.00	\$ 230,000.00
9	GRAVEL DRIVEWAY REPAIR	155	SY	\$ 30.00	\$ 4,650.00
10	ASPHALT DRIVEWAY REPAIR	180	SY	\$ 50.00	\$ 9,000.00
11	CONCRETE DRIVEWAY REPAIR	180	SY	\$ 75.00	\$ 13,500.00
12	REMOVE AND REPLACE MAILBOX	25	EA	\$ 350.00	\$ 8,750.00
13	FINAL GRADE AND SEED	31,500	LF	\$ 1.50	\$ 47,250.00
14	30" STEEL CASING (JACK & BORE)	680	LF	\$ 440.00	\$ 299,200.00
15	ABANDON-IN-PLACE EX. 8" WATER MAIN	31,500	LF	\$ 2.50	\$ 78,750.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 75,000.00	\$ 75,000.00
17	TRAFFIC CONTROL	1	LS	\$ 44,500.00	\$ 44,500.00

**CONSTRUCTION COST** \$ 5,810,080.00

Bonds, Mobilization & Insurance 7% \$ 406,705.60

Contingencies 10% \$ 621,678.56

**CONSTRUCTION COST TOTAL** \$ 6,838,464.16

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 820,615.70
Easement Preparation & Acquisition	31,500	LF	\$ 22.00	\$ 693,000.00
Surveying	31,500	LF	\$ 3.00	\$ 94,500.00
Construction Admin		3%		\$ 205,153.92

**TOTAL PROFESSIONAL SERVICES** \$ 1,813,269.62

**TOTAL PROJECT** \$ 8,651,733.78

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P40 12" MARION ROAD - CRWA MAIN TO GREEN VALLEY ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,950	LF	\$ 2.00	\$ 15,900.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	7,950	LF	\$ 100.00	\$ 795,000.00
3	12" GATE VALVE & BOX (COMPLETE)	15	EA	\$ 5,800.00	\$ 87,000.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	FIRE HYDRANT ASSEMBLY	13	EA	\$ 6,500.00	\$ 84,500.00
6	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
7	FENCING REPAIR	7,000	LF	\$ 10.00	\$ 70,000.00
8	GRAVEL DRIVEWAY REPAIR	72	SY	\$ 30.00	\$ 2,160.00
9	ASPHALT DRIVEWAY REPAIR	15	SY	\$ 50.00	\$ 750.00
10	REMOVE AND REPLACE MAILBOX	5	EA	\$ 350.00	\$ 1,750.00
11	FINAL GRADE AND SEED	7,950	LF	\$ 1.50	\$ 11,925.00
12	ABANDON-IN-PLACE EX. 4" WATER MAIN	7,400	LF	\$ 2.50	\$ 18,500.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
14	TRAFFIC CONTROL	1	LS	\$ 9,200.00	\$ 9,200.00

**CONSTRUCTION COST** \$ 1,131,425.00

Bonds, Mobilization, Prep ROW & Insurance	7%	\$ 79,199.75
Contingencies	10%	\$ 121,062.48

**CONSTRUCTION COST TOTAL** \$ 1,331,687.23

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 159,802.47
Easement Preparation & Acquisition	7,950	LF \$ 22.00 \$ 174,900.00
Surveying	7,950	LF \$ 3.00 \$ 23,850.00
Construction Admin	3%	\$ 39,950.62

**TOTAL PROFESSIONAL SERVICES** \$ 398,503.08

**TOTAL PROJECT** \$ 1,730,190.31

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P41 12" SCHWAB & WOSNIG  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	18,800	LF	\$ 2.00	\$ 37,600.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	18,800	LF	\$ 100.00	\$ 1,880,000.00
3	12" GATE VALVE & BOX (COMPLETE)	40	EA	\$ 5,800.00	\$ 232,000.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	30	EA	\$ 6,500.00	\$ 195,000.00
7	DUCTILE IRON FITTINGS	3.9	TON	\$ 7,800.00	\$ 30,420.00
8	FENCING REPAIR	18,800	LF	\$ 10.00	\$ 188,000.00
9	GRAVEL DRIVEWAY REPAIR	225	SY	\$ 30.00	\$ 6,750.00
10	ASPHALT DRIVEWAY REPAIR	115	SY	\$ 50.00	\$ 5,750.00
11	REMOVE AND REPLACE MAILBOX	26	EA	\$ 350.00	\$ 9,100.00
12	FINAL GRADE AND SEED	18,800	LF	\$ 1.50	\$ 28,200.00
13	24" STEEL CASING (JACK & BORE)	750	LF	\$ 400.00	\$ 300,000.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	18,800	LF	\$ 2.50	\$ 47,000.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 50,000.00	\$ 50,000.00
16	TRAFFIC CONTROL	1	LS	\$ 23,400.00	\$ 23,400.00

**CONSTRUCTION COST** \$ 3,042,720.00

Bonds, Mobilization & Insurance	7%	\$ 212,990.40
Contingencies	10%	\$ 325,571.04

**CONSTRUCTION COST TOTAL** \$ 3,581,281.44

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 429,753.77
Easement Preparation & Acquisition	18,800	LF \$ 22.00 \$ 413,600.00
Surveying	18,800	LF \$ 3.00 \$ 56,400.00
Construction Admin		3% \$ 107,438.44

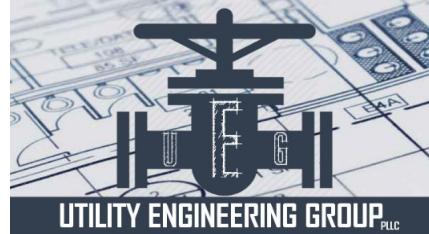
**TOTAL PROFESSIONAL SERVICES** \$ 1,007,192.22

**TOTAL PROJECT** \$ 4,588,473.66

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P42 - PLANT 19 YOUNGSFORD & FM 1044  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION	1	LS	\$ 1,955,000.00	\$ 1,955,000.00
11	OFFSITE WATERLINE CONNECTION	1	LS	\$ 930,000.00	\$ 930,000.00
12	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

**CONSTRUCTION COST** \$ 9,019,100.00  

Bonds, Mobilization & Insurance	7%	\$ 631,337.00
Contingencies	10%	\$ 965,043.70

**CONSTRUCTION COST TOTAL** \$ 10,615,480.70

**PROFESSIONAL SERVICES**  

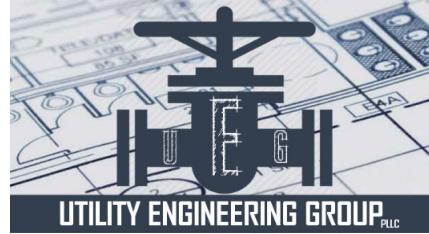
Basic Engineering	12%	\$ 1,273,857.68		
Surveying	1	LS	\$ 6,500.00	\$ 6,500.00
Land Purchase	1	LS	\$ 105,000.00	\$ 105,000.00
Construction Admin	3%		\$ 318,464.42	

**TOTAL PROFESSIONAL SERVICES** \$ 1,703,822.11  
**TOTAL PROJECT** \$ 12,319,302.81

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P43 - PLANT 20 GIN ROAD & SANTA CLARA ROAD  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1.50	AC	\$ 4,000.00	\$ 6,000.00
2	16" DIP	500	LF	\$ 120.00	\$ 60,000.00
3	16" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 12,500.00	\$ 50,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	2	TON	\$ 4,800.00	\$ 9,600.00
7	1 MG COMPOSITE ELEVATED STORAGE TANK	1	EA	\$ 3,650,000.00	\$ 3,650,000.00
8	EMERGENCY GENERATOR	1	LS	\$ 186,000.00	\$ 186,000.00
9	500,000 GALLON PRE-STRESSED CONCRETE GST	1	LS	\$ 2,125,000.00	\$ 2,125,000.00
10	HIGH SERVICE PUMP STATION	1	LS	\$ 1,955,000.00	\$ 1,955,000.00
11	DRIVEWAY, FENCING, LANDSCAPING	1	LS	\$ 30,000.00	\$ 30,000.00

<b>CONSTRUCTION COST</b>				<b>\$ 8,089,100.00</b>
Bonds, Mobilization & Insurance		7%		\$ 566,237.00
Contingencies		10%		\$ 865,533.70

**CONSTRUCTION COST TOTAL** **\$ 9,520,870.70**

<b>PROFESSIONAL SERVICES</b>				
Basic Engineering		12%		\$ 1,142,504.48
Surveying		1	LS	\$ 6,500.00
Land Purchase		1	LS	\$ 105,000.00
Construction Admin		3%		\$ 285,626.12

**TOTAL PROFESSIONAL SERVICES** **\$ 1,539,630.61**  
**TOTAL PROJECT** **\$ 11,060,501.31**

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P44 12" FM 775 - LEISSNER SCHOOL ROAD TO BEUTNAGEL LN

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	11,600	LF	\$ 2.00	\$ 23,200.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	11,600	LF	\$ 100.00	\$ 1,160,000.00
3	12" GATE VALVE & BOX (COMPLETE)	22	EA	\$ 5,800.00	\$ 127,600.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	19	EA	\$ 6,500.00	\$ 123,500.00
7	DUCTILE IRON FITTINGS	1.9	TON	\$ 7,800.00	\$ 14,820.00
8	FENCING REPAIR	6,200	LF	\$ 20.00	\$ 124,000.00
9	GRAVEL DRIVEWAY REPAIR	135	SY	\$ 30.00	\$ 4,050.00
10	ASPHALT DRIVEWAY REPAIR	45	SY	\$ 50.00	\$ 2,250.00
11	CONCRETE DRIVEWAY REPAIR	30	SY	\$ 75.00	\$ 2,250.00
12	REMOVE AND REPLACE MAILBOX	15	EA	\$ 350.00	\$ 5,250.00
13	FINAL GRADE AND SEED	11,600	LF	\$ 1.50	\$ 17,400.00
14	24" STEEL CASING (JACK & BORE)	120	LF	\$ 400.00	\$ 48,000.00
15	ABANDON-IN-PLACE EX. 4" WATER MAIN	11,600	LF	\$ 2.50	\$ 29,000.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 30,000.00	\$ 30,000.00
17	TRAFFIC CONTROL	1	LS	\$ 13,550.00	\$ 13,550.00

**CONSTRUCTION COST** \$ 1,733,870.00

Bonds, Mobilization & Insurance	7%	\$ 121,370.90
Contingencies	10%	\$ 185,524.09

**CONSTRUCTION COST TOTAL** \$ 2,040,764.99

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 244,891.80
Easement Preparation & Acquisition	11,600	LF \$ 22.00 \$ 255,200.00
Surveying	11,600	LF \$ 3.00 \$ 34,800.00
Construction Admin		3% \$ 61,222.95

**TOTAL PROFESSIONAL SERVICES** \$ 596,114.75

**TOTAL PROJECT** \$ 2,636,879.74

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P45 8" NEW BERLIN ROAD - MILLER ROAD TO FM 2538/MILLER ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	18,850	LF	\$ 2.00	\$ 37,700.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	18,850	LF	\$ 90.00	\$ 1,696,500.00
3	8" GATE VALVE & BOX (COMPLETE)	38	EA	\$ 4,575.00	\$ 173,850.00
4	TIE-IN (COMPLETE)(8 IN)	2	EA	\$ 3,500.00	\$ 7,000.00
5	FIRE HYDRANT ASSEMBLY	30	EA	\$ 6,500.00	\$ 195,000.00
6	DUCTILE IRON FITTINGS	2.9	TON	\$ 7,800.00	\$ 22,620.00
7	FENCING REPAIR	5,500	LF	\$ 20.00	\$ 110,000.00
8	GRAVEL DRIVEWAY REPAIR	225	SY	\$ 30.00	\$ 6,750.00
9	ASPHALT DRIVEWAY REPAIR	96	SY	\$ 50.00	\$ 4,800.00
10	CONCRETE DRIVEWAY REPAIR	65	SY	\$ 75.00	\$ 4,875.00
11	REMOVE AND REPLACE MAILBOX	32	EA	\$ 350.00	\$ 11,200.00
12	FINAL GRADE AND SEED	18,850	LF	\$ 1.50	\$ 28,275.00
13	24" STEEL CASING (JACK & BORE)	330	LF	\$ 400.00	\$ 132,000.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	9,296	LF	\$ 2.50	\$ 23,240.00
15	ABANDON-IN-PLACE EX. 2" WATER MAIN	9,594	LF	\$ 2.50	\$ 23,985.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 55,000.00	\$ 55,000.00
17	TRAFFIC CONTROL	1	LS	\$ 31,400.00	\$ 31,400.00

**CONSTRUCTION COST** \$ 2,564,195.00

Bonds, Mobilization & Insurance	7%	\$ 179,493.65
Contingencies	10%	\$ 274,368.87

**CONSTRUCTION COST TOTAL** \$ 3,018,057.52

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 362,166.90
Easement Preparation & Acquisition	18,850	LF \$ 22.00 \$ 414,700.00
Surveying	18,850	LF \$ 3.00 \$ 56,550.00
Construction Admin		3% \$ 90,541.73

**TOTAL PROFESSIONAL SERVICES** \$ 923,958.63

**TOTAL PROJECT** \$ 3,942,016.14

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P46 12" ENGEL ROAD - GREEN VALLEY ROAD TO SERVICE BOUNDARY

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,250	LF	\$ 2.00	\$ 6,500.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP C)	3,250	LF	\$ 100.00	\$ 325,000.00
3	12" GATE VALVE & BOX (COMPLETE)	8	EA	\$ 5,800.00	\$ 46,400.00
4	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
5	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,500.00	\$ 39,000.00
6	DUCTILE IRON FITTINGS	1.3	TON	\$ 7,800.00	\$ 10,140.00
7	FENCING REPAIR	850	LF	\$ 20.00	\$ 17,000.00
8	GRAVEL DRIVEWAY REPAIR	95	SY	\$ 30.00	\$ 2,850.00
9	REMOVE AND REPLACE MAILBOX	9	EA	\$ 350.00	\$ 3,150.00
10	FINAL GRADE AND SEED	3,250	LF	\$ 1.50	\$ 4,875.00
11	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,518	LF	\$ 2.50	\$ 3,795.00
12	CONSTRUCTION STAKING & MATERIAL TE	1	EA	\$ 11,000.00	\$ 11,000.00
13	TRAFFIC CONTROL	1	LS	\$ 3,600.00	\$ 3,600.00
<b>CONSTRUCTION COST</b>					<b>\$ 478,810.00</b>

Bonds, Mobilization & Insurance		7%		\$ 33,516.70
Contingencies		10%		\$ 51,232.67

<b>CONSTRUCTION COST TOTAL</b>				<b>\$ 563,559.37</b>
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PROFESSIONAL SERVICES				
Basic Engineering		12%		\$ 67,627.12
Easement Preparation & Acquisition	3,250	LF	\$ 22.00	\$ 71,500.00
Surveying	3,250	LF	\$ 3.00	\$ 9,750.00
Construction Admin		3%		\$ 16,906.78

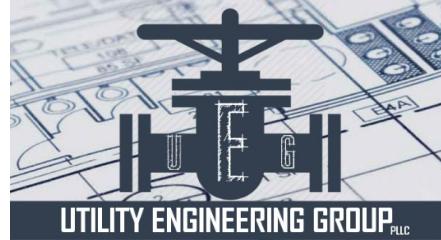
<b>TOTAL PROFESSIONAL SERVICES</b>				<b>\$ 165,783.91</b>
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<b>TOTAL PROJECT</b>				<b>\$ 729,343.28</b>
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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P47 16" UNION WINE - FM 1044 TO SUNSHINE LANE

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	9,700	LF	\$ 2.00	\$ 19,400.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	9,700	LF	\$ 120.00	\$ 1,164,000.00
3	16" GATE VALVE & BOX (COMPLETE)	18	EA	\$ 12,500.00	\$ 225,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	16	EA	\$ 6,500.00	\$ 104,000.00
6	DUCTILE IRON FITTINGS	2.9	TON	\$ 7,800.00	\$ 22,620.00
7	FENCING REPAIR	2,715	LF	\$ 20.00	\$ 54,300.00
8	GRAVEL DRIVEWAY REPAIR	52	SY	\$ 30.00	\$ 1,560.00
9	CONCRETE DRIVEWAY REPAIR	22	SY	\$ 75.00	\$ 1,650.00
10	REMOVE AND REPLACE MAILBOX	5	EA	\$ 350.00	\$ 1,750.00
11	FINAL GRADE AND SEED	9,700	LF	\$ 1.50	\$ 14,550.00
12	30" STEEL CASING (JACK & BORE)	350	LF	\$ 440.00	\$ 154,000.00
13	ABANDON-IN-PLACE EX. 12" WATER MAIN	1,700	LF	\$ 2.50	\$ 4,250.00
14	ABANDON-IN-PLACE EX. 2" WATER MAIN	750	LF	\$ 2.50	\$ 1,875.00
15	ABANDON-IN-PLACE EX. 1" WATER MAIN	2,268	LF	\$ 2.50	\$ 5,670.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 28,000.00	\$ 28,000.00
17	TRAFFIC CONTROL	1	LS	\$ 9,500.00	\$ 9,500.00

**CONSTRUCTION COST** \$ 1,823,125.00

Bonds, Mobilization & Insurance 7% \$ 127,618.75

Contingencies 10% \$ 195,074.38

**CONSTRUCTION COST TOTAL** \$ 2,145,818.13

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 257,498.18
Easement Preparation & Acquisition	9,700	LF	\$ 22.00	\$ 213,400.00
Surveying	9,700	LF	\$ 3.00	\$ 29,100.00
Construction Admin		3%		\$ 64,374.54

**TOTAL PROFESSIONAL SERVICES** \$ 564,372.72

**TOTAL PROJECT** \$ 2,710,190.84

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P48 16" YOUNGSFORD ROAD - FM1044 TO FM 725  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	20,200	LF	\$ 2.00	\$ 40,400.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	20,200	LF	\$ 120.00	\$ 2,424,000.00
3	16" GATE VALVE & BOX (COMPLETE)	40	EA	\$ 12,500.00	\$ 500,000.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	33	EA	\$ 6,500.00	\$ 214,500.00
7	DUCTILE IRON FITTINGS	3.5	TON	\$ 7,800.00	\$ 27,300.00
8	FENCING REPAIR	20,000	LF	\$ 10.00	\$ 200,000.00
9	GRAVEL DRIVEWAY REPAIR	98	SY	\$ 30.00	\$ 2,940.00
10	ASPHALT DRIVEWAY REPAIR	24	SY	\$ 50.00	\$ 1,200.00
11	REMOVE AND REPLACE MAILBOX	4	EA	\$ 350.00	\$ 1,400.00
12	FINAL GRADE AND SEED	20,200	LF	\$ 1.50	\$ 30,300.00
13	30" STEEL CASING (JACK & BORE)	280	LF	\$ 440.00	\$ 123,200.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	4,800	LF	\$ 2.50	\$ 12,000.00
15	ABANDON-IN-PLACE EX. 4" WATER MAIN	8,205	LF	\$ 2.50	\$ 20,512.50
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 65,000.00	\$ 65,000.00
17	TRAFFIC CONTROL	1	LS	\$ 34,300.00	\$ 34,300.00

**CONSTRUCTION COST** \$ 3,706,552.50

Bonds, Mobilization & Insurance		7%		\$ 259,458.68
Contingencies		10%		\$ 396,601.12

**CONSTRUCTION COST TOTAL** \$ 4,362,612.29

**PROFESSIONAL SERVICES**

Basic Engineering		12%		\$ 523,513.48
Easement Preparation & Acquisition	20,200	LF	\$ 22.00	\$ 444,400.00
Surveying	20,200	LF	\$ 3.00	\$ 60,600.00
Construction Admin		3%		\$ 130,878.37

**TOTAL PROFESSIONAL SERVICES** \$ 1,159,391.84

**TOTAL PROJECT** \$ 5,522,004.14

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P49 16" FM 1044 - YOUNGSFORD TO WOSNIG

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	13,850	LF	\$ 2.00	\$ 27,700.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	13,850	LF	\$ 120.00	\$ 1,662,000.00
3	16" GATE VALVE & BOX (COMPLETE)	25	EA	\$ 12,500.00	\$ 312,500.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	23	EA	\$ 6,500.00	\$ 149,500.00
6	DUCTILE IRON FITTINGS	2.7	TON	\$ 7,800.00	\$ 21,060.00
7	FENCING REPAIR	13,000	LF	\$ 10.00	\$ 130,000.00
8	GRAVEL DRIVEWAY REPAIR	150	SY	\$ 30.00	\$ 4,500.00
9	ASPHALT DRIVEWAY REPAIR	105	SY	\$ 50.00	\$ 5,250.00
10	REMOVE AND REPLACE MAILBOX	10	EA	\$ 350.00	\$ 3,500.00
11	FINAL GRADE AND SEED	13,850	LF	\$ 1.50	\$ 20,775.00
12	30" STEEL CASING (JACK & BORE)	375	LF	\$ 440.00	\$ 165,000.00
13	ABANDON-IN-PLACE EX. 2" WATER MAIN	10,416	LF	\$ 2.50	\$ 26,040.00
14	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 45,000.00	\$ 45,000.00
15	TRAFFIC CONTROL	1	LS	\$ 33,600.00	\$ 33,600.00

**CONSTRUCTION COST** \$ 2,617,425.00

Bonds, Mobilization & Insurance	7%	\$ 183,219.75
Contingencies	10%	\$ 280,064.48

**CONSTRUCTION COST TOTAL** \$ 3,080,709.23

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 369,685.11
Easement Preparation & Acquisition	13,850	LF \$ 22.00 \$ 304,700.00
Surveying	13,850	LF \$ 3.00 \$ 41,550.00
Construction Admin		3% \$ 92,421.28

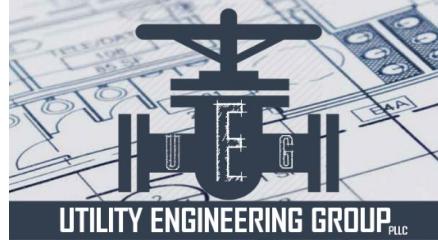
**TOTAL PROFESSIONAL SERVICES** \$ 808,356.38

**TOTAL PROJECT** \$ 3,889,065.61

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P50 12" CONNECTION ON COY LANE  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,410	LF	\$ 2.00	\$ 2,820.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,410	LF	\$ 100.00	\$ 141,000.00
3	12" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 5,800.00	\$ 23,200.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 5,500.00	\$ 5,500.00
6	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
7	DUCTILE IRON FITTINGS	0.5	TON	\$ 7,800.00	\$ 3,900.00
8	FINAL GRADE AND SEED	1,410	LF	\$ 1.50	\$ 2,115.00
9	ABANDON-IN-PLACE EX. 6" WATER MAIN	900	LF	\$ 2.50	\$ 2,250.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 1,500.00	\$ 1,500.00
11	TRAFFIC CONTROL	1	LS	\$ 4,100.00	\$ 4,100.00

**CONSTRUCTION COST** \$ 202,885.00

Bonds, Mobilization & Insurance		7%		\$ 14,201.95
Contingencies		10%		\$ 21,708.70

**CONSTRUCTION COST TOTAL** \$ 238,795.65

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 28,655.48
Easement Preparation & Acquisition		1,410	LF	\$ 22.00
Surveying		1,410	LF	\$ 3.00
Construction Admin			3%	\$ 7,163.87

**TOTAL PROFESSIONAL SERVICES** \$ 71,069.35

**TOTAL PROJECT** \$ 309,864.99

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P51 12" FM 465 - GVSUD HQ TO STAGECOACH ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,950	LF	\$ 2.00	\$ 15,900.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	7,950	LF	\$ 100.00	\$ 795,000.00
3	12" GATE VALVE & BOX (COMPLETE)	17	EA	\$ 5,800.00	\$ 98,600.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	FIRE HYDRANT ASSEMBLY	13	EA	\$ 6,500.00	\$ 84,500.00
6	DUCTILE IRON FITTINGS	1.8	TON	\$ 7,800.00	\$ 14,040.00
7	FENCING REPAIR	1,540	LF	\$ 20.00	\$ 30,800.00
8	GRAVEL DRIVEWAY REPAIR	65	SY	\$ 30.00	\$ 1,950.00
9	ASPHALT DRIVEWAY REPAIR	115	SY	\$ 50.00	\$ 5,750.00
10	REMOVE AND REPLACE MAILBOX	9	EA	\$ 350.00	\$ 3,150.00
11	FINAL GRADE AND SEED	7,950	LF	\$ 1.50	\$ 11,925.00
12	24" STEEL CASING (JACK & BORE)	130	LF	\$ 400.00	\$ 52,000.00
13	ABANDON-IN-PLACE EX. 2" WATER MAIN	4,809	LF	\$ 2.50	\$ 12,022.50
14	ABANDON-IN-PLACE EX. 6" WATER MAIN	2,767	LF	\$ 2.50	\$ 6,917.50
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 11,400.00	\$ 11,400.00

**CONSTRUCTION COST** \$ 1,176,955.00

Bonds, Mobilization & Insurance \$ 82,386.85

Contingencies \$ 125,934.19

**CONSTRUCTION COST TOTAL** \$ 1,385,276.04

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 166,233.12
Easement Preparation & Acquisition	7,950	LF	\$ 22.00	\$ 174,900.00
Surveying	7,950	LF	\$ 3.00	\$ 23,850.00
Construction Admin		3%		\$ 41,558.28

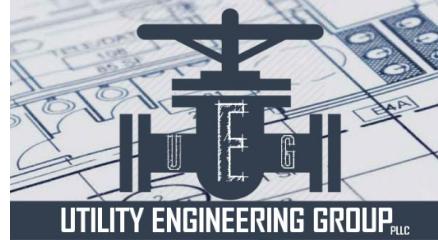
**TOTAL PROFESSIONAL SERVICES** \$ 406,541.41

**TOTAL PROJECT** \$ 1,791,817.44

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P52 12" YOUNGSFORD ROAD - COUNTRY LANE TO SANTA CLARA

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 02/20/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	5,300	LF	\$ 2.00	\$ 10,600.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	5,300	LF	\$ 100.00	\$ 530,000.00
3	12" GATE VALVE & BOX (COMPLETE)	11	EA	\$ 5,800.00	\$ 63,800.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	9	EA	\$ 6,500.00	\$ 58,500.00
7	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
8	FENCING REPAIR	2,850	LF	\$ 20.00	\$ 57,000.00
9	GRAVEL DRIVEWAY REPAIR	130	SY	\$ 30.00	\$ 3,900.00
10	ASPHALT DRIVEWAY REPAIR	12	SY	\$ 50.00	\$ 600.00
11	CONCRETE DRIVEWAY REPAIR	15	SY	\$ 75.00	\$ 1,125.00
12	REMOVE AND REPLACE MAILBOX	10	EA	\$ 350.00	\$ 3,500.00
13	FINAL GRADE AND SEED	5,300	LF	\$ 1.50	\$ 7,950.00
14	ABANDON-IN-PLACE EX. 1.5" WATER MAIN	5,300	LF	\$ 2.50	\$ 13,250.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 20,000.00	\$ 20,000.00
16	TRAFFIC CONTROL	1	LS	\$ 4,900.00	\$ 4,900.00

**CONSTRUCTION COST** \$ 788,365.00

Bonds, Mobilization & Insurance	7%	\$ 55,185.55
Contingencies	10%	\$ 84,355.06

**CONSTRUCTION COST TOTAL** \$ 927,905.61

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 111,348.67
Easement Preparation & Acquisition	5,300	LF \$ 22.00 \$ 116,600.00
Surveying	5,300	LF \$ 3.00 \$ 15,900.00
Construction Admin		3% \$ 27,837.17

**TOTAL PROFESSIONAL SERVICES** \$ 271,685.84

**TOTAL PROJECT** \$ 1,199,591.45

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P53 16" FM 2252 - IH 35 TO PLANT 7  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 02/20/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	11,750	LF	\$ 2.00	\$ 23,500.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	11,750	LF	\$ 120.00	\$ 1,410,000.00
3	16" GATE VALVE & BOX (COMPLETE)	27	EA	\$ 12,500.00	\$ 337,500.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(20 IN)	1	EA	\$ 6,000.00	\$ 6,000.00
6	FIRE HYDRANT ASSEMBLY	19	EA	\$ 6,500.00	\$ 123,500.00
7	DUCTILE IRON FITTINGS	2.4	TON	\$ 7,800.00	\$ 18,720.00
8	FENCING REPAIR	6,750	LF	\$ 20.00	\$ 135,000.00
9	GRAVEL DRIVEWAY REPAIR	125	SY	\$ 30.00	\$ 3,750.00
10	ASPHALT DRIVEWAY REPAIR	115	SY	\$ 50.00	\$ 5,750.00
11	CONCRETE DRIVEWAY REPAIR	30	SY	\$ 75.00	\$ 2,250.00
12	REMOVE AND REPLACE MAILBOX	2	EA	\$ 350.00	\$ 700.00
13	FINAL GRADE AND SEED	11,750	LF	\$ 1.50	\$ 17,625.00
14	30" STEEL CASING (JACK & BORE)	320	LF	\$ 440.00	\$ 140,800.00
15	ABANDON-IN-PLACE EX. 8" WATER MAIN	2,181	LF	\$ 2.50	\$ 5,452.50
	ABANDON-IN-PLACE EX. 12" WATER MAIN	8,765	LF	\$ 2.50	\$ 21,912.50
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 30,000.00	\$ 30,000.00
17	TRAFFIC CONTROL	1	LS	\$ 26,000.00	\$ 26,000.00

**CONSTRUCTION COST** \$ 2,312,460.00

Bonds, Mobilization & Insurance	7%	\$ 161,872.20
Contingencies	10%	\$ 247,433.22

**CONSTRUCTION COST TOTAL** \$ 2,721,765.42

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 326,611.85
Easement Preparation & Acquisition	11,750	LF \$ 22.00 \$ 258,500.00
Surveying	11,750	LF \$ 3.00 \$ 35,250.00
Construction Admin		3% \$ 81,652.96

**TOTAL PROFESSIONAL SERVICES** \$ 702,014.81

**TOTAL PROJECT** \$ 3,423,780.23

This Preliminary Opinion of Probable Cost is based on Utility Engineering Group's (UEG) experience and Qualifications, and represents UEG's best judgment. However, since UEG has no control over the cost of labor, materials, equipment, inflation and/or services provided by others, UEG does not guarantee that the actual construction cost will not vary from this Preliminary Opinion of Probable Cost



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P54 16" PIPE ALONG HAECKERVILLE RD - BOLTON RD TO VALLEY VIEW

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/18/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	4,000	LF	\$ 2.00	\$ 8,000.00
2	16" C900 PVC DR18(CL 235), WTR LN (OP CT)	4,000	LF	\$ 120.00	\$ 480,000.00
3	16" GATE VALVE & BOX (COMPLETE)	10	EA	\$ 12,500.00	\$ 125,000.00
4	TIE-IN (COMPLETE)(16 IN)	2	EA	\$ 5,500.00	\$ 11,000.00
5	FIRE HYDRANT ASSEMBLY	8	EA	\$ 6,500.00	\$ 52,000.00
6	DUCTILE IRON FITTINGS	1.0	TON	\$ 7,800.00	\$ 7,800.00
7	FENCING REPAIR	4,000	LF	\$ 5.00	\$ 20,000.00
8	ASPHALT DRIVEWAY REPAIR	36	SY	\$ 50.00	\$ 1,800.00
9	REMOVE AND REPLACE MAILBOX	4	EA	\$ 350.00	\$ 1,400.00
10	FINAL GRADE AND SEED	4,000	LF	\$ 1.50	\$ 6,000.00
11	ABANDON-IN-PLACE EX. 4" WATER MAIN	4,000	LF	\$ 2.50	\$ 10,000.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 12,000.00	\$ 12,000.00
13	TRAFFIC CONTROL	1	LS	\$ 8,000.00	\$ 8,000.00

**CONSTRUCTION COST** \$ 743,000.00

Bonds, Mobilization & Insurance \$ 52,010.00

Contingencies \$ 79,501.00

**CONSTRUCTION COST TOTAL** \$ 874,511.00

### PROFESSIONAL SERVICES

Basic Engineering		12%		\$ 104,941.32
Easement Preparation & Acquisition	4,000	LF	\$ 22.00	\$ 88,000.00
Surveying	4,000	LF	\$ 3.00	\$ 12,000.00
Construction Admin		3%		\$ 26,235.33

**TOTAL PROFESSIONAL SERVICES** \$ 231,176.65

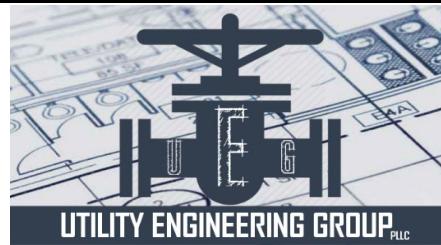
**TOTAL PROJECT** \$ 1,105,687.65

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## *Operational Projects*



**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1000 TREASURE ISLAND, WOODLAKES, LAKE MCQUEENEY ESTATES REPLACEMENTS

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	35,073	LF	\$ 2.00	\$ 70,146.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	35,073	LF	\$ 90.00	\$ 3,156,570.00
3	8" GATE VALVE & BOX (COMPLETE)	60	EA	\$ 4,575.00	\$ 274,500.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	50	EA	\$ 6,500.00	\$ 325,000.00
7	DUCTILE IRON FITTINGS	5.8	TON	\$ 7,800.00	\$ 45,240.00
8	FENCING REPAIR	20,000	LF	\$ 10.00	\$ 200,000.00
9	GRAVEL DRIVEWAY REPAIR	105	SY	\$ 30.00	\$ 3,150.00
10	ASPHALT DRIVEWAY REPAIR	355	SY	\$ 50.00	\$ 17,750.00
11	CONCRETE DRIVEWAY REPAIR	355	SY	\$ 75.00	\$ 26,625.00
12	REMOVE AND REPLACE MAILBOX	120	EA	\$ 350.00	\$ 42,000.00
13	FINAL GRADE AND SEED	35,073	LF	\$ 1.50	\$ 52,609.50
14	24" STEEL CASING (JACK & BORE)	750	LF	\$ 400.00	\$ 300,000.00
15	ABANDON-IN-PLACE EX. 6" WATER MAIN	17,277	LF	\$ 2.50	\$ 43,192.50
16	ABANDON-IN-PLACE EX. 4" WATER MAIN	11,560	LF	\$ 2.50	\$ 28,900.00
17	ABANDON-IN-PLACE EX. 3" WATER MAIN	2,585	LF	\$ 2.50	\$ 6,462.50
18	ABANDON-IN-PLACE EX. 2" WATER MAIN	3,651	LF	\$ 2.50	\$ 9,127.50
19	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 120,000.00	\$ 120,000.00
20	TRAFFIC CONTROL	1	LS	\$ 55,000.00	\$ 55,000.00

**CONSTRUCTION COST** \$ 4,782,773.00

Bonds, Mobilization & Insurance	7%	\$ 334,794.11
Contingencies	10%	\$ 511,756.71

**CONSTRUCTION COST TOTAL** \$ 5,629,323.82

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 675,518.86
Surveying	35,073	LF \$ 3.00 \$ 105,219.00
Construction Admin	3%	\$ 168,879.71

**TOTAL PROFESSIONAL SERVICES** \$ 949,617.57

**TOTAL PROJECT** \$ 6,578,941.39

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1001 8" LAKE BEND DRIVE  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,684	LF	\$ 2.00	\$ 3,368.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,684	LF	\$ 90.00	\$ 151,560.00
3	8" GATE VALVE & BOX (COMPLETE)	5	EA	\$ 4,575.00	\$ 22,875.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	FIRE HYDRANT ASSEMBLY	3	EA	\$ 6,500.00	\$ 19,500.00
6	DUCTILE IRON FITTINGS	0.8	TON	\$ 7,800.00	\$ 6,240.00
7	FENCING REPAIR	1,500	LF	\$ 20.00	\$ 30,000.00
8	GRAVEL DRIVEWAY REPAIR	60	SY	\$ 30.00	\$ 1,800.00
9	CONCRETE DRIVEWAY REPAIR	95	SY	\$ 75.00	\$ 7,125.00
10	FINAL GRADE AND SEED	1,684	LF	\$ 1.50	\$ 2,526.00
11	ABANDON-IN-PLACE EX. 1.25" WATER MAIN	379	LF	\$ 2.50	\$ 947.50
12	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,305	LF	\$ 2.50	\$ 3,262.50
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 6,500.00	\$ 6,500.00
14	TRAFFIC CONTROL	1	LS	\$ 12,000.00	\$ 12,000.00

**CONSTRUCTION COST** \$ 271,204.00

Bonds, Mobilization & Insurance	7%	\$ 18,984.28
Contingencies	10%	\$ 29,018.83

**CONSTRUCTION COST TOTAL** \$ 319,207.11

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 38,304.85
Surveying	1,684	LF \$ 3.00 \$ 5,052.00
Construction Admin		3% \$ 9,576.21

**TOTAL PROFESSIONAL SERVICES** \$ 52,933.07

**TOTAL PROJECT** \$ 372,140.17

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1002 8" PLANT 6 THROUGH LAKEVIEW TRAIL

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,298	LF	\$ 2.00	\$ 6,596.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	3,298	LF	\$ 90.00	\$ 296,820.00
3	8" GATE VALVE & BOX (COMPLETE)	9	EA	\$ 4,575.00	\$ 41,175.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,500.00	\$ 39,000.00
6	DUCTILE IRON FITTINGS	1.1	TON	\$ 7,800.00	\$ 8,580.00
7	FENCING REPAIR	3,050	LF	\$ 10.00	\$ 30,500.00
8	CONCRETE DRIVEWAY REPAIR	145	SY	\$ 75.00	\$ 10,875.00
9	FINAL GRADE AND SEED	3,298	LF	\$ 1.50	\$ 4,947.00
10	24" STEEL CASING (JACK & BORE)	150	LF	\$ 400.00	\$ 60,000.00
11	ABANDON-IN-PLACE EX. 4" WATER MAIN	3,298	LF	\$ 2.50	\$ 8,245.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 12,500.00	\$ 12,500.00
13	TRAFFIC CONTROL	1	LS	\$ 15,000.00	\$ 15,000.00

**CONSTRUCTION COST** \$ 538,238.00

Bonds, Mobilization & Insurance	7%	\$ 37,676.66
Contingencies	10%	\$ 57,591.47

**CONSTRUCTION COST TOTAL** \$ 633,506.13

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 76,020.74
Surveying	3,298	LF \$ 3.00 \$ 9,894.00
Construction Admin	3%	\$ 19,005.18

**TOTAL PROFESSIONAL SERVICES** \$ 104,919.92

**TOTAL PROJECT** \$ 738,426.04

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1003 8" HOT SHOT LANE - BAMBOO BLUFF TO ISLE OF VIEW

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,406	LF	\$ 2.00	\$ 2,812.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,406	LF	\$ 90.00	\$ 126,540.00
3	8" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 4,575.00	\$ 18,300.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
7	DUCTILE IRON FITTINGS	0.6	TON	\$ 7,800.00	\$ 4,680.00
8	FENCING REPAIR	1,200	LF	\$ 10.00	\$ 12,000.00
9	FINAL GRADE AND SEED	1,406	LF	\$ 1.50	\$ 2,109.00
10	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,406	LF	\$ 2.50	\$ 3,515.00
11	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 6,500.00	\$ 6,500.00
12	TRAFFIC CONTROL	1	LS	\$ 12,000.00	\$ 12,000.00

**CONSTRUCTION COST** \$ 207,956.00

Bonds, Mobilization & Insurance	7%	\$ 14,556.92
Contingencies	10%	\$ 22,251.29

**CONSTRUCTION COST TOTAL** \$ 244,764.21

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 29,371.71
Surveying	1,406	LF \$ 3.00 \$ 4,218.00
Construction Admin		3% \$ 7,342.93

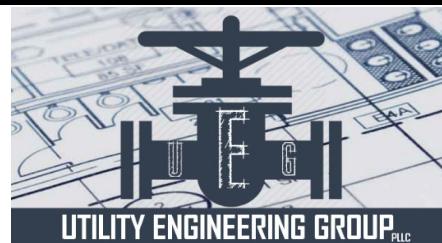
**TOTAL PROFESSIONAL SERVICES** \$ 40,932.63

**TOTAL PROJECT** \$ 285,696.84

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1004 8" ROSEWOOD TRAIL TO CR 301  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,049	LF	\$ 2.00	\$ 6,098.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	3,049	LF	\$ 90.00	\$ 274,410.00
3	8" GATE VALVE & BOX (COMPLETE)	6	EA	\$ 4,575.00	\$ 27,450.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	4	EA	\$ 6,500.00	\$ 26,000.00
7	DUCTILE IRON FITTINGS	1.8	TON	\$ 7,800.00	\$ 14,040.00
8	FENCING REPAIR	3,049	LF	\$ 10.00	\$ 30,490.00
9	FINAL GRADE AND SEED	3,049	LF	\$ 1.50	\$ 4,573.50
10	ABANDON-IN-PLACE EX. 4" WATER MAIN	3,049	LF	\$ 2.50	\$ 7,622.50
11	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 10,000.00	\$ 10,000.00
12	TRAFFIC CONTROL	1	LS	\$ 12,000.00	\$ 12,000.00

**CONSTRUCTION COST** \$ 419,184.00

Bonds, Mobilization & Insurance	7%	\$ 29,342.88
Contingencies	10%	\$ 44,852.69

**CONSTRUCTION COST TOTAL** \$ 493,379.57

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 59,205.55
Surveying	3,049	LF \$ 3.00 \$ 9,147.00
Construction Admin	3%	\$ 14,801.39

**TOTAL PROFESSIONAL SERVICES** \$ 83,153.94

**TOTAL PROJECT** \$ 576,533.50

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1005 PLANT 8 STANDBY GENERATOR  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1	LS	\$ 3,500.00	\$ 3,500.00
2	ELECTRICAL UPGRADES	1	LS	\$ 14,000.00	\$ 14,000.00
3	GENERATOR	1	EA	\$ 128,000.00	\$ 128,000.00
4	FOUNDATION	1	EA	\$ 31,000.00	\$ 31,000.00

**CONSTRUCTION COST** \$ 176,500.00

Bonds, Mobilization & Insurance	7%	\$ 12,355.00
Contingencies	10%	\$ 18,885.50

**CONSTRUCTION COST TOTAL** \$ 207,740.50

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 24,928.86
Surveying	1	LF \$ 3.00 \$ 3.00
Construction Admin	3%	\$ 6,232.22

**TOTAL PROFESSIONAL SERVICES** \$ 31,164.08

**TOTAL PROJECT** \$ 238,904.58

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1006 8" LEISURE VILLAGE FROM FM 725

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,256	LF	\$ 2.00	\$ 14,512.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	7,256	LF	\$ 100.00	\$ 725,600.00
3	8" GATE VALVE & BOX (COMPLETE)	14	EA	\$ 4,575.00	\$ 64,050.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	FIRE HYDRANT ASSEMBLY	12	EA	\$ 6,500.00	\$ 78,000.00
6	DUCTILE IRON FITTINGS	2.0	TON	\$ 7,800.00	\$ 15,600.00
7	FENCING REPAIR	7,000	LF	\$ 10.00	\$ 70,000.00
8	GRAVEL DRIVEWAY REPAIR	45	SY	\$ 30.00	\$ 1,350.00
9	ASPHALT DRIVEWAY REPAIR	160	SY	\$ 50.00	\$ 8,000.00
10	CONCRETE DRIVEWAY REPAIR	125	SY	\$ 75.00	\$ 9,375.00
11	REMOVE AND REPLACE MAILBOX	35	EA	\$ 350.00	\$ 12,250.00
12	FINAL GRADE AND SEED	7,256	LF	\$ 1.50	\$ 10,884.00
13	ABANDON-IN-PLACE EX. 4" WATER MAIN	4,651	LF	\$ 2.50	\$ 11,627.50
14	ABANDON-IN-PLACE EX. 2" WATER MAIN	2,605	LF	\$ 2.50	\$ 6,512.50
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 20,000.00	\$ 20,000.00

**CONSTRUCTION COST** \$ 1,080,761.00

Bonds, Mobilization & Insurance	7%	\$ 75,653.27
Contingencies	10%	\$ 115,641.43

**CONSTRUCTION COST TOTAL** \$ 1,272,055.70

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 152,646.68
Surveying	7,256	LF \$ 3.00 \$ 21,768.00
Construction Admin		3% \$ 38,161.67

**TOTAL PROFESSIONAL SERVICES** \$ 212,576.35

**TOTAL PROJECT** \$ 1,484,632.05

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1007 WOSNIG TO GEMBLER  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	4,648	LF	\$ 2.00	\$ 9,296.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	4,648	LF	\$ 90.00	\$ 418,320.00
3	8" GATE VALVE & BOX (COMPLETE)	10	EA	\$ 4,575.00	\$ 45,750.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	8	EA	\$ 6,500.00	\$ 52,000.00
7	DUCTILE IRON FITTINGS	2.1	TON	\$ 7,800.00	\$ 16,380.00
8	FINAL GRADE AND SEED	4,648	LF	\$ 1.50	\$ 6,972.00
9	ABANDON-IN-PLACE EX. 4" WATER MAIN	4,648	LF	\$ 2.50	\$ 11,620.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 12,500.00	\$ 12,500.00
11	TRAFFIC CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00

<b>CONSTRUCTION COST</b>					\$ 584,838.00
	Bonds, Mobilization & Insurance		7%		\$ 40,938.66
	Contingencies		10%		\$ 62,577.67

**CONSTRUCTION COST TOTAL** \$ 688,354.33

### PROFESSIONAL SERVICES

	Basic Engineering		12%		\$ 82,602.52
	Surveying	4,648	LF	\$ 3.00	\$ 13,944.00
	Construction Admin		3%		\$ 20,650.63

**TOTAL PROFESSIONAL SERVICES** \$ 117,197.15

**TOTAL PROJECT** \$ 805,551.47

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1008 8" FM725 - HWY 90 TO END OF CURRENT 1.5"

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	7,685	LF	\$ 2.00	\$ 15,370.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	7,685	LF	\$ 90.00	\$ 691,650.00
3	8" GATE VALVE & BOX (COMPLETE)	17	EA	\$ 4,575.00	\$ 77,775.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	13	EA	\$ 6,500.00	\$ 84,500.00
7	DUCTILE IRON FITTINGS	1.6	TON	\$ 7,800.00	\$ 12,480.00
8	FENCING REPAIR	7,685	LF	\$ 10.00	\$ 76,850.00
9	GRAVEL DRIVEWAY REPAIR	35	SY	\$ 30.00	\$ 1,050.00
10	ASPHALT DRIVEWAY REPAIR	15	SY	\$ 50.00	\$ 750.00
11	REMOVE AND REPLACE MAILBOX	4	EA	\$ 350.00	\$ 1,400.00
12	FINAL GRADE AND SEED	7,685	LF	\$ 1.50	\$ 11,527.50
13	24" STEEL CASING (JACK & BORE)	120	LF	\$ 400.00	\$ 48,000.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	383	LF	\$ 2.50	\$ 957.50
15	ABANDON-IN-PLACE EX. 2" WATER MAIN	2,099	LF	\$ 2.50	\$ 5,247.50
16	ABANDON-IN-PLACE EX. 1.5" WATER MAIN	5,203	LF	\$ 2.50	\$ 13,007.50
17	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
18	TRAFFIC CONTROL	1	LS	\$ 26,000.00	\$ 26,000.00

**CONSTRUCTION COST** \$ 1,098,065.00

Bonds, Mobilization & Insurance	7%	\$ 76,864.55
Contingencies	10%	\$ 117,492.96

**CONSTRUCTION COST TOTAL** \$ 1,292,422.51

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 155,090.70
Surveying	7,685	LF \$ 3.00 \$ 23,055.00
Construction Admin		3% \$ 38,772.68

**TOTAL PROFESSIONAL SERVICES** \$ 216,918.38

**TOTAL PROJECT** \$ 1,509,340.88

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1009 8" ZIPP AVENUE - OLD SAN ANTONIO ROAD TO FM 78

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	515	LF	\$ 2.00	\$ 1,030.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	515	LF	\$ 90.00	\$ 46,350.00
3	8" GATE VALVE & BOX (COMPLETE)	3	EA	\$ 4,575.00	\$ 13,725.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
7	DUCTILE IRON FITTINGS	0.4	TON	\$ 7,800.00	\$ 3,120.00
8	FENCING REPAIR	515	LF	\$ 10.00	\$ 5,150.00
9	GRAVEL DRIVEWAY REPAIR	60	SY	\$ 30.00	\$ 1,800.00
10	REMOVE AND REPLACE MAILBOX	4	EA	\$ 350.00	\$ 1,400.00
11	FINAL GRADE AND SEED	515	LF	\$ 1.50	\$ 772.50
12	ABANDON-IN-PLACE EX. 1" WATER MAIN	424	LF	\$ 2.50	\$ 1,060.00
13	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 4,000.00	\$ 4,000.00
14	TRAFFIC CONTROL	1	LS	\$ 6,000.00	\$ 6,000.00

**CONSTRUCTION COST** \$ 97,407.50

Bonds, Mobilization & Insurance	7%	\$ 6,818.53
Contingencies	10%	\$ 10,422.60

**CONSTRUCTION COST TOTAL** \$ 114,648.63

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 13,757.84
Surveying	515	LF \$ 3.00 \$ 1,545.00
Construction Admin	3%	\$ 3,439.46

**TOTAL PROFESSIONAL SERVICES** \$ 18,742.29

**TOTAL PROJECT** \$ 133,390.92

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1010 8" MCQUEENEY ELEMENTARY SCHOOL FM 725

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,854	LF	\$ 2.00	\$ 3,708.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,854	LF	\$ 90.00	\$ 166,860.00
3	8" GATE VALVE & BOX (COMPLETE)	8	EA	\$ 4,575.00	\$ 36,600.00
4	TIE-IN (COMPLETE)(12 IN)	2	EA	\$ 4,000.00	\$ 8,000.00
5	FIRE HYDRANT ASSEMBLY	3	EA	\$ 6,500.00	\$ 19,500.00
6	DUCTILE IRON FITTINGS	1.0	TON	\$ 7,800.00	\$ 7,800.00
7	FENCING REPAIR	1,200	LF	\$ 10.00	\$ 12,000.00
8	GRAVEL DRIVEWAY REPAIR	40	SY	\$ 30.00	\$ 1,200.00
9	24" STEEL CASING (JACK & BORE)	220	LF	\$ 400.00	\$ 88,000.00
10	FINAL GRADE AND SEED	1,854	LF	\$ 1.50	\$ 2,781.00
11	ABANDON-IN-PLACE EX. 4" WATER MAIN	1,854	LF	\$ 2.50	\$ 4,635.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 6,500.00	\$ 6,500.00
13	TRAFFIC CONTROL	1	LS	\$ 3,500.00	\$ 3,500.00

**CONSTRUCTION COST** \$ 361,084.00

Bonds, Mobilization & Insurance	7%	\$ 25,275.88
Contingencies	10%	\$ 38,635.99

**CONSTRUCTION COST TOTAL** \$ 424,995.87

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 50,999.50
Surveying	1,854	LF \$ 3.00 \$ 5,562.00
Construction Admin		3% \$ 12,749.88

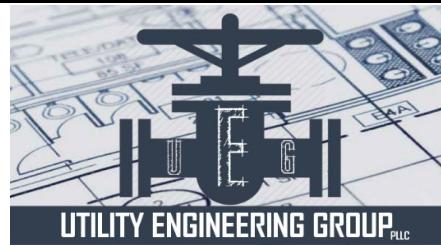
**TOTAL PROFESSIONAL SERVICES** \$ 69,311.38

**TOTAL PROJECT** \$ 494,307.25

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1011 8" WOODCREEK CIRCLE  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,855	LF	\$ 2.00	\$ 7,710.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	3,855	LF	\$ 90.00	\$ 346,950.00
3	8" GATE VALVE & BOX (COMPLETE)	8	EA	\$ 4,575.00	\$ 36,600.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,250.00	\$ 3,250.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,500.00	\$ 39,000.00
7	DUCTILE IRON FITTINGS	1.8	TON	\$ 7,800.00	\$ 14,040.00
8	FENCING REPAIR	1,850	LF	\$ 20.00	\$ 37,000.00
9	GRAVEL DRIVEWAY REPAIR	155	SY	\$ 30.00	\$ 4,650.00
10	ASPHALT DRIVEWAY REPAIR	175	SY	\$ 50.00	\$ 8,750.00
11	CONCRETE DRIVEWAY REPAIR	105	SY	\$ 75.00	\$ 7,875.00
12	FINAL GRADE AND SEED	3,855	LF	\$ 1.50	\$ 5,782.50
13	ABANDON-IN-PLACE EX. 8" WATER MAIN	3,855	LF	\$ 2.50	\$ 9,637.50
14	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 13,000.00	\$ 13,000.00
15	TRAFFIC CONTROL	1	LS	\$ 15,000.00	\$ 15,000.00

**CONSTRUCTION COST** \$ 552,745.00

Bonds, Mobilization & Insurance	7%	\$ 38,692.15
Contingencies	10%	\$ 59,143.72

**CONSTRUCTION COST TOTAL** \$ 650,580.87

PROFESSIONAL SERVICES					
	Basic Engineering		12%		\$ 78,069.70
	Surveying	3,855	LF	\$ 3.00	\$ 11,565.00
	Construction Admin		3%		\$ 19,517.43

**TOTAL PROFESSIONAL SERVICES** \$ 109,152.13

**TOTAL PROJECT** \$ 759,732.99

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1012 8" REPUBLIC PLASTICS TO MCQUEENEY ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,600	LF	\$ 2.00	\$ 3,200.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,600	LF	\$ 90.00	\$ 144,000.00
3	8" GATE VALVE & BOX (COMPLETE)	6	EA	\$ 4,575.00	\$ 27,450.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	3	EA	\$ 6,500.00	\$ 19,500.00
7	DUCTILE IRON FITTINGS	1.1	TON	\$ 7,800.00	\$ 8,580.00
8	CONCRETE DRIVEWAY REPAIR	60	SY	\$ 75.00	\$ 4,500.00
9	FINAL GRADE AND SEED	1,600	LF	\$ 1.50	\$ 2,400.00
10	ABANDON-IN-PLACE EX. 4" WATER MAIN	1,454	LF	\$ 2.50	\$ 3,635.00
11	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 8,000.00	\$ 8,000.00
12	TRAFFIC CONTROL	1	LS	\$ 8,000.00	\$ 8,000.00

**CONSTRUCTION COST** \$ 236,265.00

Bonds, Mobilization & Insurance	7%	\$ 16,538.55
Contingencies	10%	\$ 25,280.36

**CONSTRUCTION COST TOTAL** \$ 278,083.91

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 33,370.07
Surveying	1,600	LF \$ 3.00 \$ 4,800.00
Construction Admin	3%	\$ 8,342.52

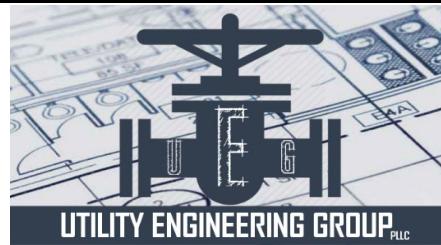
**TOTAL PROFESSIONAL SERVICES** \$ 46,512.59

**TOTAL PROJECT** \$ 324,596.49

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1013 HARD LUCK ROAD TO FM 78  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	8,218	LF	\$ 2.00	\$ 16,436.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	8,218	LF	\$ 90.00	\$ 739,620.00
3	8" GATE VALVE & BOX (COMPLETE)	16	EA	\$ 4,575.00	\$ 73,200.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	FIRE HYDRANT ASSEMBLY	14	EA	\$ 6,500.00	\$ 91,000.00
6	DUCTILE IRON FITTINGS	1.9	TON	\$ 7,800.00	\$ 14,820.00
7	FENCING REPAIR	8,000	LF	\$ 10.00	\$ 80,000.00
8	GRAVEL DRIVEWAY REPAIR	72	SY	\$ 30.00	\$ 2,160.00
9	CONCRETE DRIVEWAY REPAIR	30	SY	\$ 75.00	\$ 2,250.00
10	REMOVE AND REPLACE MAILBOX	11	EA	\$ 350.00	\$ 3,850.00
11	FINAL GRADE AND SEED	8,218	LF	\$ 1.50	\$ 12,327.00
12	24" STEEL CASING (JACK & BORE)	200	LF	\$ 400.00	\$ 80,000.00
13	ABANDON-IN-PLACE EX. 6" WATER MAIN	6,144	LF	\$ 2.50	\$ 15,360.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	2,074	LF	\$ 2.50	\$ 5,185.00
15	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 25,000.00	\$ 25,000.00
16	TRAFFIC CONTROL	1	LS	\$ 15,000.00	\$ 15,000.00

**CONSTRUCTION COST** \$ 1,179,208.00

Bonds, Mobilization & Insurance	7%	\$ 82,544.56
Contingencies	10%	\$ 126,175.26

**CONSTRUCTION COST TOTAL** \$ 1,387,927.82

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 166,551.34
Surveying	8,218	LF \$ 3.00 \$ 24,654.00
Construction Admin		3% \$ 41,637.83

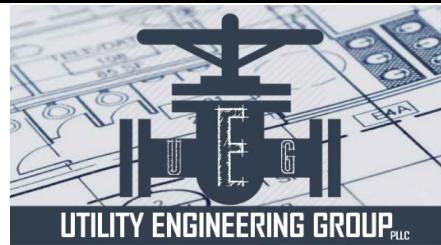
**TOTAL PROFESSIONAL SERVICES** \$ 232,843.17

**TOTAL PROJECT** \$ 1,620,770.99

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1014 12" along FM 78 SCHUMANN ROAD to MCQUEENEY ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,550	LF	\$ 2.00	\$ 3,100.00
2	12" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,550	LF	\$ 100.00	\$ 155,000.00
3	12" GATE VALVE & BOX (COMPLETE)	6	EA	\$ 5,800.00	\$ 34,800.00
4	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
5	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 2,000.00	\$ 2,000.00
6	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
7	DUCTILE IRON FITTINGS	1.2	TON	\$ 7,800.00	\$ 9,360.00
8	ASPHALT DRIVEWAY REPAIR	45	SY	\$ 50.00	\$ 2,250.00
9	FINAL GRADE AND SEED	1,550	LF	\$ 1.50	\$ 2,325.00
10	24" STEEL CASING (JACK & BORE)	110	LF	\$ 400.00	\$ 44,000.00
11	ABANDON-IN-PLACE EX. 6" WATER MAIN	1,450	LF	\$ 2.50	\$ 3,625.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 8,000.00	\$ 8,000.00
13	TRAFFIC CONTROL	1	LS	\$ 8,000.00	\$ 8,000.00

**CONSTRUCTION COST** \$ 289,460.00

Bonds, Mobilization & Insurance	7%	\$ 20,262.20
Contingencies	10%	\$ 30,972.22

**CONSTRUCTION COST TOTAL** \$ 340,694.42

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 40,883.33
Surveying	1,550	LF \$ 3.00 \$ 4,650.00
Construction Admin		3% \$ 10,220.83

**TOTAL PROFESSIONAL SERVICES** \$ 55,754.16

**TOTAL PROJECT** \$ 396,448.58

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1015 8" BUCK LANE AND TILLINGHAT  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,503	LF	\$ 2.00	\$ 7,006.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	3,503	LF	\$ 90.00	\$ 315,270.00
3	8" GATE VALVE & BOX (COMPLETE)	9	EA	\$ 4,575.00	\$ 41,175.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	6	EA	\$ 6,500.00	\$ 39,000.00
7	DUCTILE IRON FITTINGS	1.6	TON	\$ 7,800.00	\$ 12,480.00
8	FINAL GRADE AND SEED	3,503	LF	\$ 1.50	\$ 5,254.50
9	ABANDON-IN-PLACE EX. 4" WATER MAIN	2,739	LF	\$ 2.50	\$ 6,847.50
10	ABANDON-IN-PLACE EX. 2" WATER MAIN	764	LF	\$ 2.50	\$ 1,910.00
11	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 14,000.00	\$ 14,000.00
12	TRAFFIC CONTROL	1	LS	\$ 3,500.00	\$ 3,500.00

**CONSTRUCTION COST** \$ 453,943.00

Bonds, Mobilization & Insurance	7%	\$ 31,776.01
Contingencies	10%	\$ 48,571.90

**CONSTRUCTION COST TOTAL** \$ 534,290.91

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 64,114.91
Surveying	3,503	LF \$ 3.00 \$ 10,509.00
Construction Admin		3% \$ 16,028.73

**TOTAL PROFESSIONAL SERVICES** \$ 90,652.64

**TOTAL PROJECT** \$ 624,943.55

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1016 8" LAKESIDE PASS TO CONNECT DEAD ENDS

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1,212	LF	\$ 2.00	\$ 2,424.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	1,212	LF	\$ 100.00	\$ 121,200.00
3	8" GATE VALVE & BOX (COMPLETE)	4	EA	\$ 4,575.00	\$ 18,300.00
4	TIE-IN (COMPLETE)(2 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(12 IN)	1	EA	\$ 4,000.00	\$ 4,000.00
6	FIRE HYDRANT ASSEMBLY	2	EA	\$ 6,500.00	\$ 13,000.00
7	DUCTILE IRON FITTINGS	0.6	TON	\$ 7,800.00	\$ 4,680.00
8	FENCING REPAIR	1,050	LF	\$ 10.00	\$ 10,500.00
9	ASPHALT DRIVEWAY REPAIR	45	SY	\$ 50.00	\$ 2,250.00
10	REMOVE AND REPLACE MAILBOX	2	EA	\$ 350.00	\$ 700.00
11	FINAL GRADE AND SEED	1,212	LF	\$ 1.50	\$ 1,818.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 5,000.00	\$ 5,000.00
13	TRAFFIC CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00

**CONSTRUCTION COST** \$ 191,872.00

Bonds, Mobilization & Insurance	7%	\$ 13,431.04
Contingencies	10%	\$ 20,530.30

**CONSTRUCTION COST TOTAL** \$ 225,833.34

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 27,100.00
Surveying	1,212	LF \$ 3.00 \$ 3,636.00
Construction Admin	3%	\$ 6,775.00

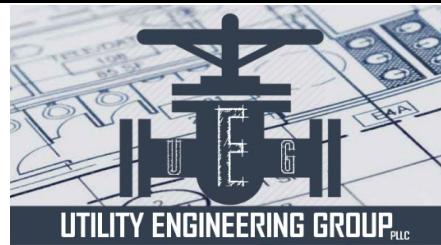
**TOTAL PROFESSIONAL SERVICES** \$ 37,511.00

**TOTAL PROJECT** \$ 263,344.35

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1017 8" SCHUMANN BEACH ROAD  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	3,750	LF	\$ 2.00	\$ 7,500.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	3,750	LF	\$ 90.00	\$ 337,500.00
3	8" GATE VALVE & BOX (COMPLETE)	7	EA	\$ 4,575.00	\$ 32,025.00
4	TIE-IN (COMPLETE)(4 IN)	1	EA	\$ 3,000.00	\$ 3,000.00
5	TIE-IN (COMPLETE)(16 IN)	1	EA	\$ 4,800.00	\$ 4,800.00
6	FIRE HYDRANT ASSEMBLY	5	EA	\$ 6,500.00	\$ 32,500.00
7	DUCTILE IRON FITTINGS	1.0	TON	\$ 7,800.00	\$ 7,800.00
8	FENCING REPAIR	100	LF	\$ 20.00	\$ 2,000.00
9	CONCRETE DRIVEWAY REPAIR	140	SY	\$ 75.00	\$ 10,500.00
10	ASPHALT DRIVEWAY REPAIR	90	SY	\$ 50.00	\$ 4,500.00
11	GRAVEL DRIVEWAY REPAIR	35	SY	\$ 30.00	\$ 1,050.00
12	REMOVE AND REPLACE MAILBOX	31	EA	\$ 350.00	\$ 10,850.00
13	FINAL GRADE AND SEED	3,750	LF	\$ 1.50	\$ 5,625.00
14	ABANDON-IN-PLACE EX. 4" WATER MAIN	1,960	LF	\$ 2.50	\$ 4,900.00
15	ABANDON-IN-PLACE EX. 2" WATER MAIN	1,750	LF	\$ 2.50	\$ 4,375.00
16	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 12,000.00	\$ 12,000.00
17	TRAFFIC CONTROL	1	LS	\$ 4,500.00	\$ 4,500.00

**CONSTRUCTION COST** \$ 485,425.00

Bonds, Mobilization & Insurance	7%	\$ 33,979.75
Contingencies	10%	\$ 51,940.48

**CONSTRUCTION COST TOTAL** \$ 571,345.23

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 68,561.43
Easement Preparation & Acquisition	3,750	LF \$ 22.00 \$ 82,500.00
Surveying	3,750	LF \$ 3.00 \$ 11,250.00
Construction Admin		3% \$ 17,140.36

**TOTAL PROFESSIONAL SERVICES** \$ 179,451.78

**TOTAL PROJECT** \$ 750,797.01

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1018 8" RIVER BEND DRIVE - PLACID COVE TO E. ZIPP ROAD

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	474	LF	\$ 2.00	\$ 948.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	474	LF	\$ 90.00	\$ 42,660.00
3	8" GATE VALVE & BOX (COMPLETE)	3	EA	\$ 4,575.00	\$ 13,725.00
4	TIE-IN (COMPLETE)(6 IN)	1	EA	\$ 3,250.00	\$ 3,250.00
5	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
6	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
7	DUCTILE IRON FITTINGS	0.9	TON	\$ 7,800.00	\$ 7,020.00
8	FENCING REPAIR	250	LF	\$ 20.00	\$ 5,000.00
9	FINAL GRADE AND SEED	474	LF	\$ 1.50	\$ 711.00
10	24" STEEL CASING (JACK & BORE)	100	LF	\$ 400.00	\$ 40,000.00
11	ABANDON-IN-PLACE EX. 6" WATER MAIN	474	LF	\$ 2.50	\$ 1,185.00
12	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 30,000.00	\$ 30,000.00
13	TRAFFIC CONTROL	1	LS	\$ 26,000.00	\$ 26,000.00

**CONSTRUCTION COST** \$ 180,499.00

Bonds, Mobilization & Insurance	7%	\$ 12,634.93
Contingencies	10%	\$ 19,313.39

**CONSTRUCTION COST TOTAL** \$ 212,447.32

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 25,493.68
Surveying	474	LF \$ 3.00 \$ 1,422.00
Construction Admin		3% \$ 6,373.42

**TOTAL PROFESSIONAL SERVICES** \$ 33,289.10

**TOTAL PROJECT** \$ 245,736.42

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1019 PLANT 2 PORTABLE STANDBY GENERATOR

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1	LS	\$ 3,500.00	\$ 3,500.00
2	ELECTRICAL UPGRADES	2	LS	\$ 14,000.00	\$ 28,000.00
3	GENERATOR	1	EA	\$ 108,000.00	\$ 108,000.00
4	FOUNDATION	2	EA	\$ 31,000.00	\$ 62,000.00

**CONSTRUCTION COST** \$ 201,500.00

Bonds, Mobilization & Insurance	7%	\$ 14,105.00
Contingencies	10%	\$ 21,560.50

**CONSTRUCTION COST TOTAL** \$ 237,165.50

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 28,459.86
Surveying	1	LF \$ 3.00 \$ 3.00
Construction Admin	3%	\$ 7,114.97

**TOTAL PROFESSIONAL SERVICES** \$ 35,577.83

**TOTAL PROJECT** \$ 272,743.33

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1020 PLANT 9 STANDBY GENERATOR  
Developer: Green Valley Special Utility District  
Engineering Firm: UTILITY ENGINEERING GROUP  
Project Number:  
Water EDUs: Sewer EDUs:  
Completed by: Brandon Kesselring

Date: 03/19/24

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	1	LS	\$ 3,500.00	\$ 3,500.00
2	ELECTRICAL UPGRADES	1	LS	\$ 14,000.00	\$ 14,000.00
3	GENERATOR	1	EA	\$ 128,000.00	\$ 128,000.00
4	FOUNDATION	1	EA	\$ 38,000.00	\$ 38,000.00

**CONSTRUCTION COST** \$ 183,500.00

Bonds, Mobilization & Insurance	7%	\$ 12,845.00
Contingencies	10%	\$ 19,634.50

**CONSTRUCTION COST TOTAL** \$ 215,979.50

**PROFESSIONAL SERVICES**

Basic Engineering	12%	\$ 25,917.54
Surveying	1	LF \$ 3.00 \$ 3.00
Construction Admin	3%	\$ 6,479.39

**TOTAL PROFESSIONAL SERVICES** \$ 32,399.93

**TOTAL PROJECT** \$ 248,379.43

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1021 SANTA CLARA LOOP, CODY LANE, CALE DR., KISER LN.

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	20,048	LF	\$ 2.00	\$ 40,096.00
2	8" C909 PVC DR18(CL 235), WTR LN (OP CT)	20,048	LF	\$ 90.00	\$ 1,804,320.00
3	8" GATE VALVE & BOX (COMPLETE)	38	EA	\$ 4,575.00	\$ 173,850.00
4	TIE-IN (COMPLETE)(8 IN)	4	EA	\$ 3,500.00	\$ 14,000.00
5	FIRE HYDRANT ASSEMBLY	30	EA	\$ 6,500.00	\$ 195,000.00
6	DUCTILE IRON FITTINGS	3.6	TON	\$ 7,800.00	\$ 28,080.00
7	FENCING REPAIR	12,000	LF	\$ 15.00	\$ 180,000.00
8	GRAVEL DRIVEWAY REPAIR	175	SY	\$ 30.00	\$ 5,250.00
9	ASPHALT DRIVEWAY REPAIR	110	SY	\$ 50.00	\$ 5,500.00
10	CONCRETE DRIVEWAY REPAIR	130	SY	\$ 75.00	\$ 9,750.00
11	REMOVE AND REPLACE MAILBOX	65	EA	\$ 350.00	\$ 22,750.00
12	FINAL GRADE AND SEED	20,048	LF	\$ 1.50	\$ 30,072.00
13	24" STEEL CASING (JACK & BORE)	320	LF	\$ 400.00	\$ 128,000.00
14	ABANDON-IN-PLACE EX. 6" WATER MAIN	2,126	LF	\$ 2.50	\$ 5,315.00
15	ABANDON-IN-PLACE EX. 4" WATER MAIN	13,587	LF	\$ 2.50	\$ 33,967.50
16	ABANDON-IN-PLACE EX. 2" WATER MAIN	3,869	LF	\$ 2.50	\$ 9,672.50
17	ABANDON-IN-PLACE EX. 1.5" WATER MAIN	466	LF	\$ 2.50	\$ 1,165.00
18	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 55,000.00	\$ 55,000.00
19	TRAFFIC CONTROL	1	LS	\$ 20,000.00	\$ 20,000.00

**CONSTRUCTION COST** \$ 2,761,788.00

Bonds, Mobilization & Insurance	7%	\$ 193,325.16
Contingencies	10%	\$ 295,511.32

**CONSTRUCTION COST TOTAL** \$ 3,250,624.48

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 390,074.94
Surveying	20,048	LF \$ 3.00 \$ 60,144.00
Construction Admin		3% \$ 97,518.73

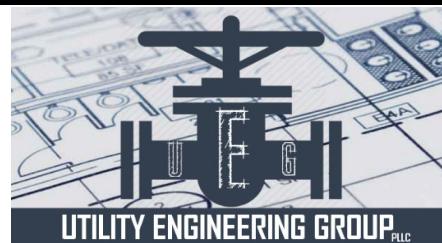
**TOTAL PROFESSIONAL SERVICES** \$ 547,737.67

**TOTAL PROJECT** \$ 3,798,362.15

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**Green Valley Special Utility District**  
605 FM 465, Marion, TX 78124  
Potable Water Distribution



## Water Construction Cost Estimate

Project Name and Phase : P1022 WUNLESS DRIVE SERVICE REPLACEMENT

Developer: Green Valley Special Utility District

Engineering Firm: UTILITY ENGINEERING GROUP

Project Number:

Water EDUs: Sewer EDUs:

Date: 03/19/24

Completed by: Brandon Kesselring

### Water

Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Cost
1	PREPARE SITE	730	LF	\$ 2.00	\$ 1,460.00
2	2" C909 PVC DR18(CL 235), WTR LN (OP CT)	730	LF	\$ 65.00	\$ 47,450.00
3	2" GATE VALVE & BOX (COMPLETE)	3	EA	\$ 2,750.00	\$ 8,250.00
4	TIE-IN (COMPLETE)(8 IN)	1	EA	\$ 3,500.00	\$ 3,500.00
5	FIRE HYDRANT ASSEMBLY	1	EA	\$ 6,500.00	\$ 6,500.00
6	DUCTILE IRON FITTINGS	0.4	TON	\$ 7,800.00	\$ 3,120.00
7	FINAL GRADE AND SEED	730	LF	\$ 1.50	\$ 1,095.00
8	18" STEEL CASING (JACK & BORE)	100	LF	\$ 350.00	\$ 35,000.00
9	ABANDON-IN-PLACE EX. 1" WATER MAIN	730	LF	\$ 2.50	\$ 1,825.00
10	CONSTRUCTION STAKING & MATERIAL TESTING	1	EA	\$ 3,500.00	\$ 3,500.00
11	TRAFFIC CONTROL	1	LS	\$ 3,000.00	\$ 3,000.00

**CONSTRUCTION COST** \$ 114,700.00

Bonds, Mobilization & Insurance	7%	\$ 8,029.00
Contingencies	10%	\$ 12,272.90

**CONSTRUCTION COST TOTAL** \$ 135,001.90

### PROFESSIONAL SERVICES

Basic Engineering	12%	\$ 16,200.23
Surveying	730	LF \$ 3.00 \$ 2,190.00
Construction Admin		3% \$ 4,050.06

**TOTAL PROFESSIONAL SERVICES** \$ 22,440.29

**TOTAL PROJECT** \$ 157,442.19

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