

**FREESE AND NICHOLS**  
 5805 Main Street, Suite B  
 Frisco, Texas 75034  
 Phone - (972) 624-9201



**City of Wylie Wastewater Treatment Plant**

**Demolition Option 1**

FN JOB NO. WLE20563  
 FILE Fig1\_DemoOpt1.mxd  
 DATE June 2021  
 SCALE 1:1,200  
 DESIGNED MK  
 DRAFTED MK

**1**

**FIGURE**





Innovative approaches  
Practical results  
Outstanding service

## OPINION OF PROBABLE CONSTRUCTION COST

PROJECT NAME	Wylie WWTP Demolition	DATE	6/8/2021
CLIENT	NTMWD	GROUP	1153
% SUBMITTAL	Conceptual	PM	Clayton Barnard

ESTIMATED BY	QC CHECKED BY	FNI PROJECT NUMBER
		WLE20563

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
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### Demolition of Wylie WWTP - Option 1

1	<b>Demolition of Aeration Basin</b>				
2	Remove Existing Mechanical Equipment	1	LS	\$ 15,000.00	\$ 15,000
3	Demo Concrete Structural Walls to 2' Below Grade	6421	SF	\$ 4.00	\$ 25,684
4	Fill Structure with Fill	6485	CY	\$ 25.00	\$ 162,125
5					
6	<b>Demolition of Waste Sludge Holding Basin</b>				
7	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
8	Demo Concrete Structural Walls to 2' Below Grade	571	SF	\$ 7.50	\$ 4,283
9	Fill Structure with Fill	1075	CY	\$ 25.00	\$ 26,875
10					
11	<b>Demolition of Secondary Clarifier</b>				
12	Remove Existing Mechanical Equipment	1	LS	\$ 10,000.00	\$ 10,000
13	Demo Concrete Structural Walls to 2' Below Grade	1885	SF	\$ 7.50	\$ 14,138
14	Fill Structure with Fill	3686	CY	\$ 25.00	\$ 92,150
15					
16	<b>Demolition of Chlorine Contact Chamber/Headworks</b>				
17	Remove Existing Mechanical Equipment	1	LS	\$ 7,500.00	\$ 7,500
18	Demo Concrete Structural Walls to 2' Below Grade	3330	SF	\$ 4.00	\$ 13,320
19	Fill Structure with Fill	592	CY	\$ 25.00	\$ 14,800

SUBTOTAL	\$	390,874
CONTINGENCY	15%	\$ 58,631
SUBTOTAL	\$	449,505
MOBILIZATION	5%	\$ 22,475
SUBTOTAL	\$	471,980
OH&P	18%	\$ 84,956

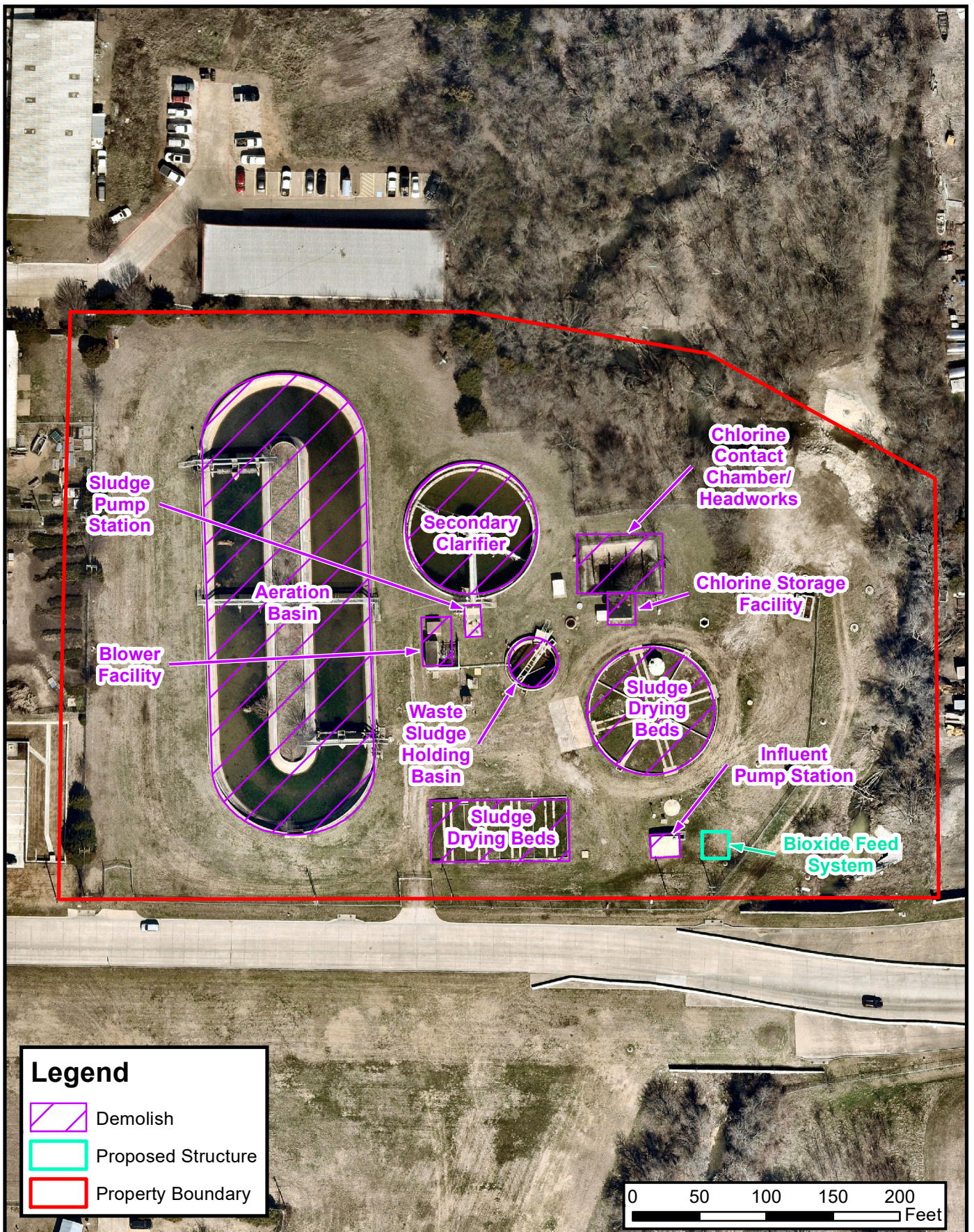
<b>PROJECT TOTAL (2021 COSTS)</b>	<b>\$</b>	<b>556,937</b>
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### NOTES:

- 1 FNI OPCC classified as an AACE Class 4 Estimate with accuracy range or -20 to + 30.
- 2 FNI OPCC does not include costs associated with engineering fees, permits, surveying, etc.





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**City of Wylie Wastewater Treatment Plant**

**Demolition Option 2**

FN JOB NO	WLE20563
FILE	Fig2_DemoOpt2.mxd
DATE	June 2021
SCALE	1:1,200
DESIGNED	MK
DRAFTED	MK

**2**

**FIGURE**





Innovative approaches  
Practical results  
Outstanding service

## OPINION OF PROBABLE CONSTRUCTION COST

PROJECT NAME	Wylie WWTP Demolition	DATE	6/8/2021
CLIENT	NTMWD	GROUP	1153
% SUBMITTAL	Conceptual	PM	Clayton Barnard

ESTIMATED BY	QC CHECKED BY	FNI PROJECT NUMBER
		WLE20563

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
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<b>Demolition of Wylie WWTP - Option 2</b>					
1	<b>Demolition of Aeration Basin</b>				
2	Remove Existing Mechanical Equipment	1	LS	\$ 15,000.00	\$ 15,000
3	Demo Concrete Structural Walls to 2' Below Grade	6421	SF	\$ 4.00	\$ 25,684
4	Fill Structure with Fill	6485	CY	\$ 25.00	\$ 162,125
5					
6	<b>Demolition of Waste Sludge Holding Basin</b>				
7	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
8	Demo Concrete Structural Walls to 2' Below Grade	571	SF	\$ 7.50	\$ 4,283
9	Fill Structure with Fill	1075	CY	\$ 25.00	\$ 26,875
10					
11	<b>Demolition of Secondary Clarifier</b>				
12	Remove Existing Mechanical Equipment	1	LS	\$ 10,000.00	\$ 10,000
13	Demo Concrete Structural Walls to 2' Below Grade	1885	SF	\$ 7.50	\$ 14,138
14	Fill Structure with Fill	3686	CY	\$ 25.00	\$ 92,150
15					
16	<b>Demolition of Chlorine Contact Chamber/Headworks</b>				
17	Remove Existing Mechanical Equipment	1	LS	\$ 7,500.00	\$ 7,500
18	Demo Concrete Structural Walls to 2' Below Grade	3330	SF	\$ 4.00	\$ 13,320
19	Fill Structure with Fill	592	CY	\$ 25.00	\$ 14,800
20					
21	<b>Demolition of Sludge Drying Beds</b>				
22	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
23	Demo Concrete Structural Walls to 2' Below Grade	11687	SF	\$ 4.00	\$ 46,748
24	Fill Structure with Fill	1200	CY	\$ 25.00	\$ 30,000
25					
26	<b>Demolition of Sludge Pump Station</b>				
27	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
28	Demo Concrete Structural Walls to 2' Below Grade	680	SF	\$ 7.50	\$ 5,100
29	Fill Structure with Fill	151	CY	\$ 25.00	\$ 3,775
30					
31	<b>Demolition of Influent Pump Station</b>				
32	Remove Existing Mechanical Equipment	1	LS	\$ 10,000.00	\$ 10,000
33	Demo Concrete Structural Walls to 2' Below Grade	84	SF	\$ 7.50	\$ 630
34	Fill Structure with Fill	64	CY	\$ 25.00	\$ 1,600
35					
36	<b>Demolition of Blower Facility</b>				
37	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
38	Demo Structure	480	SF	\$ 7.50	\$ 3,600
39	Demo Slab	480	SF	\$ 7.50	\$ 3,600
40					
41	<b>Demolition of Chlorine Storage Facility</b>				

PROJECT NAME	Wylie WWTP Demolition	DATE	6/8/2021
CLIENT	NTMWD	GROUP	1153
% SUBMITTAL	Conceptual	PM	Clayton Barnard

ESTIMATED BY	QC CHECKED BY	FNI PROJECT NUMBER
		WLE20563

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
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42	Remove Existing Mechanical Equipment	1	LS	\$ 1,500.00	\$ 1,500
43	Demo Structure	288	SF	\$ 7.50	\$ 2,160
44	Demo Slab	288	SF	\$ 7.50	\$ 2,160
45					
46	<b>Bioxide Feed Chemical Containment</b>				
47	Fiberglass Containment w/ Concrete Slab	400	SF	\$ 25.00	\$ 10,000
48	Chemical Injection Assembly	1	LS	\$ 65,000.00	\$ 65,000
49	Electrical Power Service	1	LS	\$ 25,000.00	\$ 25,000
SUBTOTAL					\$ 616,747
CONTINGENCY 15%					\$ 92,512
SUBTOTAL					\$ 709,259
MOBILIZATION 5%					\$ 35,463
SUBTOTAL					\$ 744,722
OH&P 18%					\$ 134,050

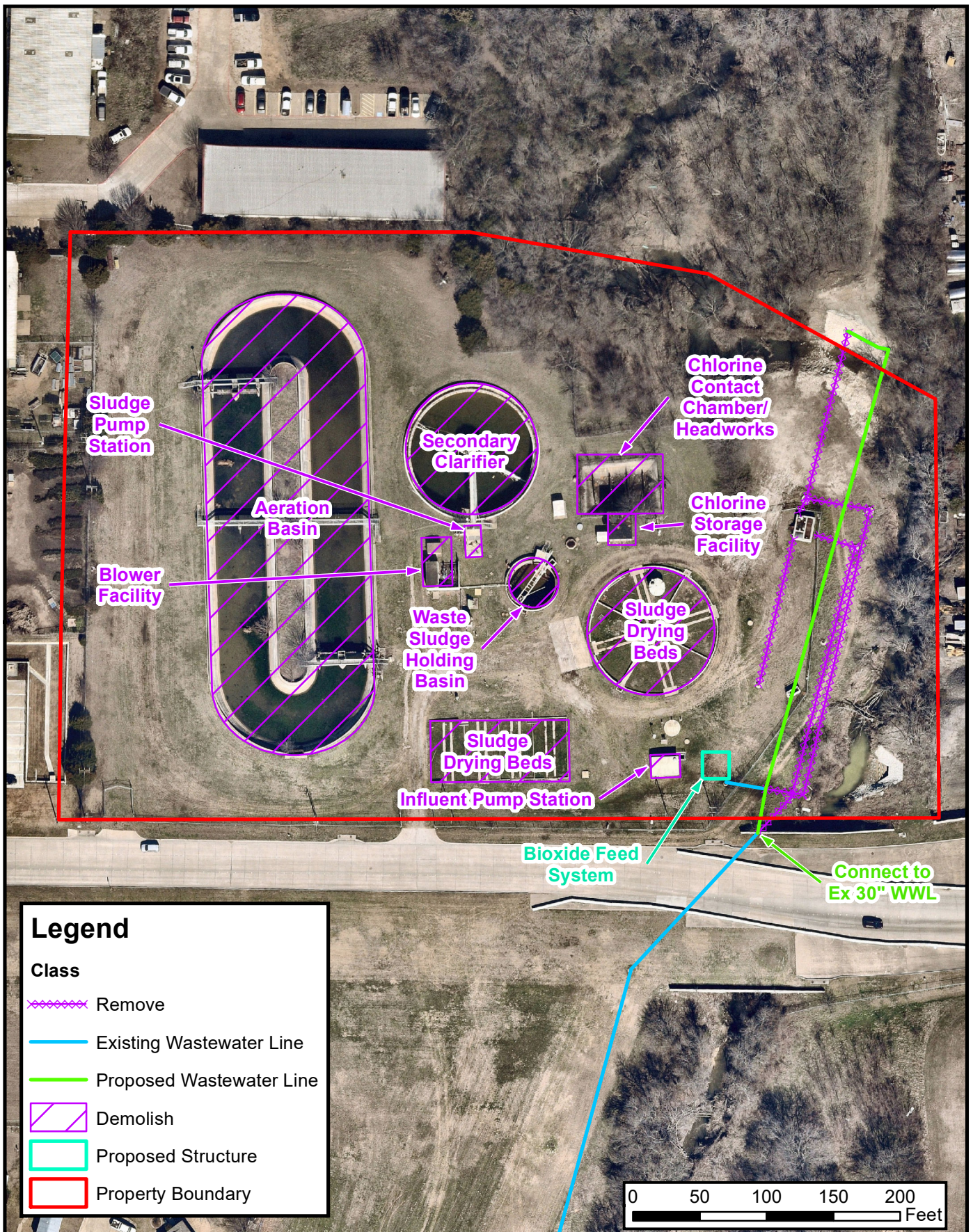
<b>PROJECT TOTAL (2021 COSTS)</b>	<b>\$ 878,772</b>
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**City of Wylie Wastewater Treatment Plant**

**Demolition Option 3**

FN JOB NO. WLE20563  
 FILE Fig3\_DemoOpt3.mxd  
 DATE June 2021  
 SCALE 1:1,200  
 DESIGNED MK  
 DRAFTED MK

**3**

**FIGURE**





Innovative approaches  
Practical results  
Outstanding service

## OPINION OF PROBABLE CONSTRUCTION COST

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% SUBMITTAL	Conceptual	PM	Clayton Barnard

ESTIMATED BY	QC CHECKED BY	FNI PROJECT NUMBER
		WLE20563

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
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<b>Demolition of Wylie WWTP - Option 3</b>					
1	<b>Demolition of Aeration Basin</b>				
2	Remove Existing Mechanical Equipment	1	LS	\$ 15,000.00	\$ 15,000
3	Demo Concrete Structural Walls to 2' Below Grade	6421	SF	\$ 4.00	\$ 25,684
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7	Remove Existing Mechanical Equipment	1	LS	\$ 5,000.00	\$ 5,000
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48	Chemical Injection Assembly	1	LS	\$ 65,000.00	\$ 65,000
49	Electrical Power Service	1	LS	\$ 25,000.00	\$ 25,000
50					
51	<b>Muddy Creek Interceptor Relocation</b>				
52	Remove Existing Manholes	4	EA	\$ 1,500.00	\$ 6,000
53	Remove Existing Interceptor Lines	791	LF	\$ 10.00	\$ 7,910
54	30-Inch Interceptor	430	LF	\$ 250.00	\$ 107,500
55	5-Foot Diameter Manhole	4	EA	\$ 30,000.00	\$ 120,000

SUBTOTAL	\$ 858,157
CONTINGENCY 15%	\$ 128,724
SUBTOTAL	\$ 986,881
MOBILIZATION 5%	\$ 49,344
SUBTOTAL	\$ 1,036,225
OH&P 18%	\$ 186,520

<b>PROJECT TOTAL (2021 COSTS)</b>	<b>\$ 1,222,745</b>
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