

### **Change Order Request #1**

#### **Description of Work**

Design Bulletin revised the overall Sanitary Sewer routing onsite. Invert elevations were revised and a sewage lift station was added. Costs for this change include a completely new sewer system install along with the lift station and associated install. This COR also includes costs to backfill the trenches that had commenced per the original design.

### Cost Breakdown

#### Material:

•	Manhole boxes -	\$ 13,500
•	SS Pipes -	\$ 5,000
•	Trench Plates -	\$ 500
•	Trench Shoring Rental -	\$ 22,000
•	Sewer Lift Station -	\$ 69,100
•	Dewatering Baker Tank -	\$ 25,000
•	Sand & AB (includes transport) -	\$ 35,000
•	Lift Station -	\$ 69,000
•	Material Total -	\$ 239,100

#### Equipment

•	6" Dewatering Pump -		\$ 1,200			
•	Cat 938F Loader -	120HRS	\$ 12,960	<u> </u>	07.115555	
•	Water Truck -	60HRS	\$ 2,400	N	OT NEEDED	
•	Excavator (60K lb) -	60HRS	\$ 8,220			
•	Excavator (78K lb) -	130HRS	\$ 23,010			
•	Backhoe -	88HRS	\$ 5,720			
•	Crane (Manitowoc 2250 300 Ton) -	20HRS	\$ 12,000 <del> </del>			
•	Boom Truck (14 ton) -	32HRS	\$ 1,000			
•	Pickup Truck(s) -	400HRS	\$ 12,41 <u>6</u>			
•	Equipment Total -		\$ 78,926	_		
bor /	(MH-Man Haura)		/		Too high (\$75/hr). Ch to \$60/hr	ange rate

80 MH

#### Labor (MH=Man Hours)

•	Load/Unload Equipment (Laborer) -	10MH	\$ 600 <mark>/</mark>	60
•	Excavate/Install SS Pipe		V	
	o Laborer(s) -	650MH	\$ 48,750	75
	<ul> <li>Labor Foreman -</li> </ul>	200MH	\$ 14,000	70
	<ul><li>Operator(s) -</li></ul>	320MH	\$ 28,800	90
	o Operator Foreman	230MH	\$ 24,150	105

• Labor Total - \$ 121,100

#### Lift Station Electrical (Zap Electric)

Dewatering (Laborer) -

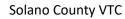
See attached proposal -

\$ 27 265

\$ 4,800

60

Wrong...see Zapp Proposal Notes





Project Mana	gement (Labor)				
<ul> <li>Proje</li> </ul>	ct Manager -	200MH	\$ 14,000	70	
• <u>Proje</u>	ct Engineer -	200MH	\$ 15,000	<u>75</u>	
<ul><li>Proje</li></ul>	ct Management Labor Total	-	\$ 29,000		
SUBTOTAL (	(CUDI Labor, Equip. & Mtrl)	) <b>-</b>	\$ 468,126		Too high (\$75/hr). Change rate to \$40/hr
Lift Station E	Electrical (See attached Zap	op Proposal) -	\$ 27,265		35 <b>V</b> 15/11
SUBTOTAL			\$ 495,391		
Overhead &	Profit -		\$ 99,078		
SUBTOTAL			\$ 594,469	Too	OHigh (20%) Change OH&P to 15%
Bonds & Ins	urance -		\$ 11,889		
TOTAL -	*****	* * * * * * *	\$ 606,358	3	
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			/		
	Missing credit for original scope of work. Provide credit of \$95K				

DATE -PROJECT SOLANO VITC

Prop L.U.D.1.

ZAPP Electric Change Order # 1 (To C.J.D.1)

\* FURNISH & INISTALL ELECTRICAL FOR ADDED S.S. LIFT STATION PER BULLETIN #1

# LABOR

JOURNEYMAN @ \$ 82/HR x 150 HRS = \$ 12,300 FOREMAN @ # 90/HR X 30 HRS = # 2,700 PM @ # 95/HR x 4 HRS = # 380 # 15,380

MTRL

1.5" PUC CONDUIT

= \$ 2,200

Z" PUC CONDUIT

= \$ 1,550

WIRE

Not added correctly

= \$ 2,350

# EXCLUSIONS:

- · PERMIT
- · FURNISH LIFT STATION
- · TESTING/INSPECTIONS
- · TRENCHING (BY CUDI)

54BTOTAL\$ 22,580

MARKUP \$ 3,387 SUBTOTAL \$ 25,967

BONDS : INS 1, 298

Too High. Sub Bond Rate is 2%

TOTAL COR \$ 27, 265,