

# Exhibit A

## City of Arcata Margaret Lane Water Tank 250,000 Gallon Tank Recoating Design fee

28-Feb-24

### Estimated Man-hours and Proposed Budget

Task	Senior Engineer	Staff Engineer	Engineer Technician	Engineer Tech Prevailing Wage	Drafting	Clerical	Total Labor \$	Expenses + Sub 10% \$	Total \$
	Hours	Hours	Hours	Hours	Hours	Hours			
	\$200	\$150	\$110	\$150	\$90	\$80			
<b>1 Project Management</b>									
Management of Project	4	8				2	\$ 2,160	\$ 216	\$ 2,376
Scheduling	1	4			4	1	\$ 1,240	\$ 124	\$ 1,364
Quality Assurance/Quality Control	1	4	2			1	\$ 1,100	\$ 110	\$ 1,210
Project Documentation and Files	1					8	\$ 840	\$ 84	\$ 924
City Meetings (4)	-	8	8			2	\$ 2,240	\$ 224	\$ 2,464
<b>2 Design Development</b>									
Meeting with City Staff/Site Visit	-	2	2				\$ 520	\$ 52	\$ 572
BACC inspect and Coord- 5 Days		8	4	8		4	\$ 3,160	\$ 8,320	\$ 11,480
Bottom coating tests - 2 each @ \$750 ea		2	2				\$ 520	\$ 1,725	\$ 2,245
Interior coat tests - 2 each @ \$600 ea		2	2				\$ 520	\$ 1,380	\$ 1,900
Exterior Coat Tests - 2 Each @ \$600 each		2	2				\$ 520	\$ 1,380	\$ 1,900
Design Cathodic Protection Unit By Others	-	-	-	-	-	-	\$ -	\$ -	\$ -
Meetings & Summary Reports	2	10	4	4		2	\$ 3,100	\$ 310	\$ 3,410
<b>3 Prepare Plans</b>									
90% Plans + Submittal	2	40			40	4	\$ 10,320	\$ 1,032	\$ 11,352
Final Plans	2	8			8	4	\$ 1,440	\$ 144	\$ 1,584
<b>4 Prepare Tech Specs</b>									
90% Draft + Submittal	4	24	4			20	\$ 6,440	\$ 644	\$ 7,084
Final Specs	4	12	4			16	\$ 4,320	\$ 432	\$ 4,752
<b>5 Bidding Assistance</b>									
Engineer's Opinion of Probable Costs	1	8	2			2	\$ 1,780	\$ 178	\$ 1,958
Pre-bid Meeting	-	4	2			1	\$ 900	\$ 90	\$ 990
Response and Addenda (Allowance)	1	4	2		-	1	\$ 1,100	\$ 110	\$ 1,210
Bid Opening	-	4			-	1	\$ 680	\$ 68	\$ 748
Design Estimate is \$59,600.									
<b>6 Construction Inspect. To Be Determined- Assumes 10 weeks of Construction.</b>									
Submittals							\$ -	\$ -	\$ -
Observation, Weekly Meetings, Daily Reports							\$ -	\$ -	\$ -
BACC Exterior Inspection							\$ -	\$ -	\$ -
BACC Interior Inspection							\$ -	\$ -	\$ -
Coating Inspection Coord.							\$ -	\$ -	\$ -
Const. Contract Pay Requests							\$ -	\$ -	\$ -
Coordination and Reports to City							\$ -	\$ -	\$ -
Change Orders (Allowance)							\$ -	\$ -	\$ -
Project Monitor & Reports for 11 months							\$ -	\$ -	\$ -
BACC Warranty Inspection at 11 Month							\$ -	\$ -	\$ -
City Install Cathodic Unit at 12th Month							\$ -	\$ -	\$ -
Record Drawings at 12th month							\$ -	\$ -	\$ -
Project Closeout @ 12th Month							\$ -	\$ -	\$ -
Construction Engineering Estimate - TBD									
<b>Total</b>	<b>23</b>	<b>154</b>	<b>40</b>	<b>12</b>	<b>52</b>	<b>69</b>	<b>\$ 42,900</b>	<b>\$ 16,623</b>	<b>\$ 59,523</b>
<b>Budget Fee</b>									<b>\$ 59,600</b>

1 Bottom Coal Tar Enamel PCB Test - \$750 each. Assume 2

2 Interior Coat Tests per CAM 17 Test at \$600 each. Assume 2

3 Exterior coat Tests per CAM 17 at \$600 each. Assume 2.

4 Assumes 60 day design period. Six lab tests included.

5 Assumes 10 week initial construction period. Design will confirm construction timeframe.

6 Assumes City will Design Cathodic Protection Unit and Install after 11 month Warranty inspection.

7 Project Construction contract closure planned at month 12, one month after successful 11 Month Warranty Inspection..

8 Assumes no work on tank floor, walls, nor roof metals. Structural & geo-tech work on soil, foundation, and metal will be extra work.



**Oscar Larson & Associates**

Engineering • Planning • Construction Management