

Appendix J  
CLASS 5 COST ESTIMATES





## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Backup UV System Improvement

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Daniel Chien  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	\$63,732
2	UVSigna 2-Row System	\$369,316
	Installation	20% \$73,863
	Weir, Gate, Davit Crane, and Appurtenances	30% \$110,795
	E&IC	30% \$110,795
3	Discharge Channel Improvements	\$100,000
<b>TOTAL DIRECT COST</b>		<b>\$828,501</b>
	Contingency	30.0% \$249,000
	Subtotal	<b>\$1,077,501</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$108,000
	Subtotal	<b>\$1,185,501</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$1,185,501</b>
	General Contractor Overhead and Profit	15.0% \$178,000
	Subtotal	<b>\$1,363,501</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$1,363,501</b>
	Engineering, Legal & Administration Fees	25.0% \$341,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$1,705,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Fiber Optic Addition

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Daniel Chien  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	Excluded
2	Trench and Backfill	\$11,854
3	Conduit and Cables	\$15,806
<b>TOTAL DIRECT COST</b>		<b>\$27,660</b>
	Contingency	30.0% \$8,000
	Subtotal	<b>\$35,660</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$4,000
	Subtotal	<b>\$39,660</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$39,660</b>
	General Contractor Overhead and Profit	15.0% \$6,000
	Subtotal	<b>\$45,660</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$45,660</b>
	Engineering, Legal & Administration Fees	25.0% \$11,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$57,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Seismic Improvements

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Daniel Chien  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TO	TOTAL
1	Operations Building Retrofit		\$418,499
2	Process Gallery Retrofit		\$29,227
3	Workshop Retrofit		\$74,621
4	Overall Plant (Non-Structural) Retrofit		\$3,731
<b>TOTAL DIRECT COST</b>			<b>\$526,078</b>
	Contingency	30.0%	\$158,000
	Subtotal		<b>\$684,078</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0%	\$68,000
	Subtotal		<b>\$752,078</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0%	\$0
	Subtotal		<b>\$752,078</b>
	General Contractor Overhead and Profit	15.0%	\$113,000
	Subtotal		<b>\$865,078</b>
	Escalation to Mid-Point (3% per year)	0.0%	\$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>			<b>\$865,078</b>
	Engineering, Legal & Administration Fees	25.0%	\$216,000
<b>TOTAL ESTIMATED PROJECT COST</b>			<b>\$1,082,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** New Aeration Basin + Blower + Retaining Wall

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Conklin, Sprick  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Site Civil	
	Excavation, disposal, dewatering	\$1,232,974
	Retaining Wall	\$832,842
	Access Road	\$69,891
	Building Sitework	\$57,005
	Yard Piping	\$123,978
2	Aeration Basin	
	Concrete	\$1,167,689
	Equipment	\$256,027
	Special	\$72,783
	Mechanical	\$351,249
	E&IC	30% \$554,325
3	Blower	
	Demolition	\$10,000
	1 x Aerzen 3000 scfm blower	\$152,579
	Installation	30% \$45,774
	E&IC	30% \$45,774
<b>TOTAL DIRECT COST</b>		<b>\$4,972,890</b>
	Contingency	30.0% \$1,492,000
	Subtotal	<b>\$6,464,890</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$646,000
	Subtotal	<b>\$7,110,890</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$7,110,890</b>
	General Contractor Overhead and Profit	15.0% \$1,067,000
	Subtotal	<b>\$8,177,890</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$8,177,890</b>
	Engineering, Legal & Administration Fees	25.0% \$2,044,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$10,222,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** MBR Phase 1, Two Blowers, Screens, Electrical Upgrades

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Conklin, Sprick  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Stormwater Infrastructure	\$400,070
2	Fine Screens	
	Site Civil	\$25,533
	Yard Piping	\$345,883
	Concrete + Metals	\$412,743
	Equipment + Mechanical	\$2,926,519
	E&IC	30% \$1,001,778
3	MBR Phase 1 (Structural/Mechanical/Electrical)	\$20,442,310
	Site Civil	\$1,405,778
	Yard Piping	\$1,500,364
4	Blower	
	Demolition	\$20,000
	2 x Aerzen 3000 scfm blower	\$305,158
	Installation	30% \$91,547
	E&IC	30% \$91,547
5	Electrical Upgrade	\$4,950,201
<b>TOTAL DIRECT COST</b>		<b>\$33,919,432</b>
	Contingency	30.0% \$10,176,000
	Subtotal	<b>\$44,095,432</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$4,410,000
	Subtotal	<b>\$48,505,432</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$48,505,432</b>
	General Contractor Overhead and Profit	15.0% \$7,276,000
	Subtotal	<b>\$55,781,432</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$55,781,432</b>
	Engineering, Legal & Administration Fees	25.0% \$13,945,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$69,727,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Secondary Clarifier Mechanism

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Daniel Chien  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	\$110,000
2	Two (2) 70 ft Diameter Secondary Clarifier Mechanism	\$449,663
	Installation	40% \$179,865
	Spray Water, Piping, and Appurtenances	10% \$44,966
	E&IC	5% \$22,483
3	Two (2) 70 ft Diameter FRP Weirs and Baffles	\$37,375
	Installation	25% \$8,796
4	Two (2) 70 ft Diameter Secondary Clarifier Bottom Grout	\$10,093
<b>TOTAL DIRECT COST</b>		<b>\$863,241</b>
	Contingency	30.0% \$259,000
	Subtotal	<b>\$1,122,241</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$112,000
	Subtotal	<b>\$1,234,241</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$1,234,241</b>
	General Contractor Overhead and Profit	15.0% \$185,000
	Subtotal	<b>\$1,419,241</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$1,419,241</b>
	Engineering, Legal & Administration Fees	25.0% \$355,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$1,775,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** MBR Phase 2 + Two Blowers

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Conklin, Sprick  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	MBR Phase 2	\$625,461
2	Blower	
	Demolition	\$20,000
	2 x Aerzen 3000 scfm blower	\$305,158
	Installation	30% \$91,547
	E&IC	30% \$91,547
<b>TOTAL DIRECT COST</b>		<b>\$1,133,715</b>
	Contingency	30.0% \$340,000
	Subtotal	<b>\$1,473,715</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$147,000
	Subtotal	<b>\$1,620,715</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$1,620,715</b>
	General Contractor Overhead and Profit	15.0% \$243,000
	Subtotal	<b>\$1,863,715</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$1,863,715</b>
	Engineering, Legal & Administration Fees	25.0% \$466,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$2,330,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** MBR Phase 3 + Two Blowers

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Conklin, Sprick  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	MBR Phase 3	\$3,023,064
	Yard Piping	\$417,643
2	Blower	
	Demolition	\$20,000
	2 x Aerzen 3000 scfm blower	\$305,158
	Installation	30% \$91,547
	E&IC	30% \$91,547
<b>TOTAL DIRECT COST</b>		<b>\$3,948,960</b>
	Contingency	30.0% \$1,185,000
	Subtotal	<b>\$5,133,960</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$513,000
	Subtotal	<b>\$5,646,960</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$5,646,960</b>
	General Contractor Overhead and Profit	15.0% \$847,000
	Subtotal	<b>\$6,493,960</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$6,493,960</b>
	Engineering, Legal & Administration Fees	25.0% \$1,623,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$8,117,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Solids Dryer Improvement

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** C. Clark  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Dewatering and Dryer Building Expansion	\$844,612
2	Biosolids Paddle Dryer	\$4,355,038
	Installation 25%	\$1,088,759
	Piping and Appurtenances 15%	\$653,256
	E&IC 15%	\$653,256
3	Cake Conveyance	\$106,220
	Installation 25%	\$26,555
	E&IC 15%	\$15,933
4	Odor Control	\$294,725
5	Plant Drain Pump Station Relocation	\$100,000
6	Civil Site Improvements	\$195,021
<b>TOTAL DIRECT COST</b>		<b>\$8,333,375</b>
	Contingency 30.0%	\$2,500,000
	Subtotal	<b>\$10,833,375</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.) 10.0%	\$1,083,000
	Subtotal	<b>\$11,916,375</b>
	Sales Tax (Applied to 50% of Total Direct Cost) 0.0%	\$0
	Subtotal	<b>\$11,916,375</b>
	General Contractor Overhead and Profit 15.0%	\$1,787,000
	Subtotal	<b>\$13,703,375</b>
	Escalation to Mid-Point (3% per year) 0.0%	\$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$13,703,375</b>
	Engineering, Legal & Administration Fees 25.0%	\$3,426,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$17,130,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** UV Equipment Replacement

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** Daniel Chien  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	\$120,000
2	UVSigna 2-Row System	\$628,238
	Installation	20% \$125,648
	Weir, Gate, Davit Crane, and Appurtenances	30% \$188,471
	E&IC	30% \$188,471
<b>TOTAL DIRECT COST</b>		<b>\$1,250,829</b>
	Contingency	30.0% \$375,000
	Subtotal	<b>\$1,625,829</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$163,000
	Subtotal	<b>\$1,788,829</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$1,788,829</b>
	General Contractor Overhead and Profit	15.0% \$268,000
	Subtotal	<b>\$2,056,829</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$2,056,829</b>
	Engineering, Legal & Administration Fees	25.0% \$514,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$2,571,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Outfall Improvements

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 2/28/2022  
**By:** M. Sprick  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	\$100,000
4	Outfall Piping	\$504,922
<b>TOTAL DIRECT COST</b>		<b>\$604,922</b>
	Contingency	30.0% \$181,000
	Subtotal	<b>\$785,922</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$79,000
	Subtotal	<b>\$864,922</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$864,922</b>
	General Contractor Overhead and Profit	15.0% \$130,000
	Subtotal	<b>\$994,922</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$994,922</b>
	Engineering, Legal & Administration Fees	25.0% \$249,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$1,244,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Thickening and Dewatering

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 5/6/2022  
**By:** C. Clark  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Demolition	\$42,488
2	Two GEA Westfalia CF Series 6000 Decanter Centrifuges	\$796,653
	Installation	25% \$199,163
	E&IC	15% \$119,498
3	Two ANDRITZ 2.0m Gravity Belt Thickeners	\$458,872
	Installation	25% \$114,718
	E&IC	15% \$68,831
<b>TOTAL DIRECT COST</b>		<b>\$1,800,224</b>
	Contingency	30.0% \$540,000
	Subtotal	<b>\$2,340,224</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$234,000
	Subtotal	<b>\$2,574,224</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$2,574,224</b>
	General Contractor Overhead and Profit	15.0% \$386,000
	Subtotal	<b>\$2,960,224</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$2,960,224</b>
	Engineering, Legal & Administration Fees	25.0% \$740,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$3,701,000</b>

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## PROJECT SUMMARY

**Project:** Wilsonville Facility Plan  
**Client:** City of Wilsonville  
**Location:** Wilsonville, OR  
**Zip Code:** 97070  
**Carollo Job #** 11962A.00  
**Element** Cooling Tower

**Estimate Class:** 5  
**PIC:** B. Matson  
**PM:** D. Price  
**Date:** 5/6/2022  
**By:**  
**Reviewed:**  
**ENR:** 13,473

NO.	DESCRIPTION	TOTAL
1	Cooling Tower	\$207,966
	Installation	20% \$41,593
	E&IC	30% \$62,390
<b>TOTAL DIRECT COST</b>		<b>\$311,949</b>
	Contingency	30.0% \$94,000
	Subtotal	<b>\$405,949</b>
	General Conditions (mobilization, permits, bonds/insurance, etc.)	10.0% \$41,000
	Subtotal	<b>\$446,949</b>
	Sales Tax (Applied to 50% of Total Direct Cost)	0.0% \$0
	Subtotal	<b>\$446,949</b>
	General Contractor Overhead and Profit	15.0% \$67,000
	Subtotal	<b>\$513,949</b>
	Escalation to Mid-Point (3% per year)	0.0% \$0
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$513,949</b>
	Engineering, Legal & Administration Fees	25.0% \$128,000
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$642,000</b>

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our professional opinion of accurate costs at this time and is subject to change as the project design matures. Carollo Engineers have no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. Carollo Engineers cannot and does not warrant or guarantee that proposals, bids or actual construction costs will not vary from the costs presented as shown.

