

**PRELIMINARY ENGINEERED COST ESTIMATE  
DEMOLITION OF BUILDING JN-1**

**REVISION 1**

**May 1, 2002**

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# 1.0 SUMMARY

The original cost estimate for the demolition of JN-1 was prepared by The Chamberlain Group on April 30, 2001. As a result of an Independent Cost Review (ICR) of the BCLDP project baseline by Burns and Roe, DOE-CEMP forwarded a number of comments with regard to this cost estimate. Table 1 contains a list of the comments pertaining to the cost estimate itself, the issue behind the comment, the DOE-CEMP recommendation, and the resolution. The resolution was based on an implementation approach agreed to jointly by DOE-CEMP and BCLDP on April 25, 2002.

As a result of implementing all the comments in Table 1, the revised cost estimate for the demolition of JN-1 is **\$ 8.45 million** versus the original estimate of \$10.68 million.

**Table 1. DOE-CEMP Comments on the Cost Estimate for JN-1 Demolition**

#	Issue	CEMP Recommendation	Resolution
014	Obs# JN1-1: The project management costs in the Chamberlain Report were compared to the real demolition related work. By way of comparison, the overall WBS 1.6 Project Management cost for Battelle amount to only 11% with some additional costs at the activities level, but still well below 22%.	Re-examine the project management and planning costs (within the Chamberlain Report estimates) with an objective of reducing it to be 15% of the revised project costs (Activities 1000 (mob and demob. Costs), 2000, 3000, and contingency, but excluding profit and G&A).	The Project Management work day was reduced from 12 to 10 hrs/day to be consistent with the rest of the labor force.
015	Obs# JN1-3: A significant cost has been included for something called "as-built design support". No definition of this activity is provided, and the need for as-builts (except on a very limited, low cost basis) for a facility that is being demolished to a green field status is not obvious.	The cost item entitled "as-built design support" should be deleted (unless appropriate justification can be provided) for a reduction of \$1.26 million.	This cost item is needed to support the preparation and review of JN-1 demolition bid packages. Based on current information, this has been reduced from 20% to 10% of Labor + Material.
016	Obs# JN1-4: A 1.25 labor adjustment factor was used for work in clean (non-radioactive contaminated) areas to account for "2 hrs/day of training". This seems unjustified, especially since standard site training for all personnel was accounted for in Activity 1110.	The labor adjustment factors in the Chamberlain Report should be changed as follows: The 2.0 factor should be reduced to 1.66; The 1.25 factor should be reduced to 1.0.	This comment was accepted as recommended.
017	Obs# JN1-5: The labor adjustment factors seem to have been applied inconsistently over the various work tasks.	Consistently and correctly apply the labor adjustment factors in the Chamberlain Report	Labor adjustment factors were revised as necessary to be applied consistently to contaminated versus un-contaminated areas.
018	Obs# JN1-6: Pay rates are the same for the electrical leads and skilled laborers, and the same for the electrical helper and the unskilled laborer.	Review the pay rates used for the estimate to ensure consistent application.	The questionable pay rate is an average for a crew comprised of 1 lead electrician and 3 helpers. No change required.
037	Similar to the review of the project management costs, the contingency costs in the Chamberlain Report were also reviewed. It was found that the cost estimate contained buried contingencies.	Estimates should be reviewed to eliminate all buried contingencies and adjusted downward and properly applied. Section 3.6.4 of the Burns and Roe Independent Cost Review Report contains a more detailed recommendation on the methodology of calculating and applying contingency to the project work scope.	Contingencies for 1 month lease of additional tank (\$2,975) and 10 core borings (\$4,910) remain. The 10% of demolition labor (\$199,072) was deleted. Project management was reduced from 12 to 10 hrs/day. 25% contingency applied to total demolition costs only (Activity 2000).

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**SECTION 2**

**ACTIVITY COST SHEETS**

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BCLDP JN-1 Demolition Project Estimate

SUMMARY - PROJECT COSTS

BCLDP JN-1 DEMOLITION PROJECT

	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
1000 Project Start-up and Demobilization Activities	\$ 1,766,888.92	\$ 357,161.00	\$ 2,124,049.92
2000 Demolition Activities (including 25% contingency)	\$ 2,147,932.14	\$ 1,872,227.48	\$ 4,020,159.62
3000 Site Restoration	\$ 40,600.00	\$ 75,792.00	\$ 116,392.00
<b>LABOR &amp; MATERIAL TOTALS</b>	<b>\$ 3,955,421.06</b>	<b>\$ 2,305,180.48</b>	<b>\$ 6,260,601.54</b>
G&A (@ 15%)			\$ 939,090.23
PROFIT (@ 10%)			\$ 626,060.15
As-Built Design Support Activities (@10%)			\$ 626,060.15
Uncertainty of Assumed Radiological Conditions and Use of Engineered Controls (@ 0%)			\$ -
<b>GRAND TOTAL</b>	<b>\$ 3,955,421.06</b>	<b>\$ 2,305,180.48</b>	<b>\$ 8,451,812.08</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1000</b>		<b>Activity Description: Project Start-up and Demobilization Activities</b>		
	<b>Labor</b>		<b>Material</b>	<b>TOTAL</b>
1100 Mobilization and Demolition Support Costs	\$ 262,855.12		\$ 355,161.00	\$ 618,016.12
1200 Project Planning	\$ 53,140.00		\$ -	\$ 53,140.00
1300 Project Management and Controls	\$ 1,406,445.80		\$ -	\$ 1,406,445.80
1400 Demobilization	\$ 44,448.00		\$ 2,000.00	\$ 46,448.00
<b>TOTAL 1000</b>	<b>\$ 1,766,888.92</b>		<b>\$ 357,161.00</b>	<b>\$ 2,124,049.92</b>

For Information

Project Duration

- 1100 - 2 weeks
- 1200 - 4 weeks
- 1400 - 1.5 weeks
- 2100 - 42.5 weeks
- 2200 - 41 weeks
- 2300 - 2 weeks
- 2400 - 1 weeks
- 3000 - 1 weeks

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1100</b>	<b>Activity Description: Mobilization and Demolition Support Costs</b>		
	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
1110 Training, Security and Badging	\$ 15,616.00	\$ -	\$ 15,616.00
1120 Trailer Setup and Hookup	\$ -	\$ 110,195.00	\$ 110,195.00
1130 Install Construction Temp. Electric Serv.	\$ 219,455.12	\$ 154,515.00	\$ 373,970.12
1140 Site Setup Activities	\$ 27,784.00	\$ 90,451.00	\$ 118,235.00
<b>TOTAL 1100</b>	<b>\$ 262,855.12</b>	<b>\$ 355,161.00</b>	<b>\$ 618,016.12</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 1110	Activity Description: Training, Security and Badging		
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	Labor	Material	TOTAL
Training, Security and Badging	\$ 15,616.00	\$ -	\$ 15,616.00

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1120</b>	<b>Activity Description: Trailer Setup and Hookup</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
<b>Set up Trailers and Hook up Utilities</b>			
Office Trailer	\$ -	\$ 15,787.50	\$ 15,787.50
Break/Change Trailer	\$ -	\$ 15,787.50	\$ 15,787.50
Shower Trailer	\$ -	\$ 59,840.00	\$ 59,840.00
Storage Trailer	\$ -	\$ 6,280.00	\$ 6,280.00
Mobilization/demobilization		\$ 12,500.00	\$ 12,500.00
<b>TOTALS</b>	<b>\$ -</b>	<b>\$ 110,195.00</b>	<b>\$ 110,195.00</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 1130	Activity Description: Temporary Utilities
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	Labor	Material	TOTAL
Install ConstructionTemp. Electric Serv.	\$ 9,560.00	\$ 956.00	\$ 10,516.00
Daily Temporary Electrical Support	\$ 198,720.00	\$ 19,872.00	\$ 218,592.00
Equipment	\$ -	\$ 123,256.00	\$ 123,256.00
High Bay Crane rewire/recertification	\$ 11,175.12	\$ 10,431.00	\$ 21,606.12
Totals	\$ 219,455.12	\$ 154,515.00	\$ 373,970.12

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1130</b>	<b>Activity Description: Temporary Utilities</b>
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	# People	Hrs./Person	Hrly. Rate	Labor Total	Material Total	TOTAL
<b>Install ConstructionTemp. Electric Serv.</b>						
Foreman/ Safety Officer	1	40	\$ 75.00	\$ 3,000.00	\$ 300.00	\$ 3,300.00
Laborer (unskilled)	1	40	\$ 48.00	\$ 1,920.00	\$ 192.00	\$ 2,112.00
Electrician (lead)	1	40	\$ 68.00	\$ 2,720.00	\$ 272.00	\$ 2,992.00
Electrician (helper)	1	40	\$ 48.00	\$ 1,920.00	\$ 192.00	\$ 2,112.00
<b>TOTAL</b>	<b>4</b>			<b>\$ 9,560.00</b>	<b>\$ 956.00</b>	<b>\$ 10,516.00</b>

	# People	Hrs./Person	Hrly. Rate	Labor Total	Material Total	TOTAL
<b>Daily Temporary Electrical Support<sup>(1)</sup></b>						
Electrician (helper)	1	4140	\$ 48.00	\$ 198,720.00	\$ 19,872.00	\$ 218,592.00
<b>TOTAL</b>	<b>1</b>			<b>\$ 198,720.00</b>	<b>\$ 19,872.00</b>	<b>\$ 218,592.00</b>

	# of Items	# of Units	Unit	Unit Cost	Total
<b>Equipment<sup>(2)</sup></b>					
Temporary Panel (Spider Box)	4	1	ea	\$ 200.00	\$ 800.00
Transformer (75 KVA)	2	1	ea	\$ 1,535.00	\$ 3,070.00
Temporary Lighting	1	1	lot	\$ 1,000.00	\$ 1,000.00
Generators (115VAC/240VAC)	4	12	month	\$ 1,050.00	\$ 50,400.00
Generator for Breathing Air	1	12	month	\$ 1,050.00	\$ 12,600.00
Auto transfer for Breathing Air	1	12	month	\$ 3,053.00	\$ 36,636.00
Diesel fuel <sup>(3)</sup>	1	1	lot	\$ 18,750.00	\$ 18,750.00
<b>TOTAL</b>				<b>\$ 123,256.00</b>	

	# of Items	# of Units	Unit	Unit Cost	Cost	Labor Adjusted	Total
<b>High Bay Crane rewire/recertification <sup>(4)(5)</sup></b>							
Labor (Rewire)	1	99	hours	\$ 68.00	\$ 6,732.00	\$ 11,175.12	\$11,175.12
Materials (Rewire)	1	1	lot	\$ 8,505.00	\$ 8,505.00	\$ -	\$ 8,505.00
Recertification	1	1	lot	\$ 1,926.00	\$ 1,926.00	\$ -	\$ 1,926.00
<b>Material Tot</b>					<b>\$ 10,431.00</b>		<b>\$21,606.12</b>

**Notes:**

- <sup>(3)</sup>Fuel use based on 50 hours per week for 52 weeks
- <sup>(2)</sup>All unit costs obtained from MSMeans version 2001
- <sup>(1)</sup>For electrical support, one helper electrician less demolition activities
- <sup>(4)</sup>Recertification - Crane America, for 12,000 to 20,000 pounds total weight, Rated at 80% of total weight used for test
- <sup>(5)</sup>Recertification - Crane America, will use Battelle forklift to move weights for areas inaccessible to their weight cart
- \*Materials estimated at 10% of labor costs

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 1140	Activity Description: Construction Site Setup
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	Labor	Material	TOTAL
<b>Site Setup Activities</b>			
Sediment and Erosion Control	\$ 3,744.00	\$ 544.00	\$ 4,288.00
Laydown Area Prep.	\$ 3,664.00	\$ 1,665.00	\$ 5,329.00
Dewatering	\$ 14,376.00	\$ 78,642.00	\$ 93,018.00
Access Controls & Fencing	\$ 6,000.00	\$ 9,600.00	\$ 15,600.00
<b>TOTALS</b>	<b>\$ 27,784.00</b>	<b>\$ 90,451.00</b>	<b>\$ 118,235.00</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

<b>Activity No. 1200</b>	<b>Activity Description: Project Planning</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
1210 Review Current Radiological Status	\$ 9,610.00	\$ -	\$ 9,610.00
1220 Procedure Preparation	\$ 43,530.00	\$ -	\$ 43,530.00
<b>TOTAL 1200</b>	<b>\$ 53,140.00</b>	<b>\$ -</b>	<b>\$ 53,140.00</b>

BCLDP JN-1 Demolition Project Estimate

**ACTIVITY COST SHEET**

<b>Activity No. 1210</b>	<b>Activity Description: Review Current Radiological Status</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Review Current Radiological Status			
Review Radiological Status (Initial)	\$ 4,700.00	\$ -	\$ 4,700.00
Intrusive Characterization Support	\$ 4,910.00	\$ -	\$ 4,910.00
<b>TOTAL</b>	<b>\$ 9,610.00</b>	<b>\$ -</b>	<b>\$ 9,610.00</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1220</b>	<b>Activity Description: Procedure Preparation</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
<b>Procedure Preparation</b>			
Project Management Plan	\$ 5,800.00	\$ -	\$ 5,800.00
Health and Safety Plan	\$ 4,360.00	\$ -	\$ 4,360.00
Quality Assurance Plan	\$ 4,150.00	\$ -	\$ 4,150.00
Area Specific Procedures*	\$ -	\$ -	\$ -
Waste Packaging Instructions	\$ 4,720.00	\$ -	\$ 4,720.00
Operating Procedures (Five)	\$ 24,500.00	\$ -	\$ 24,500.00
<b>TOTALS</b>	<b>\$ 43,530.00</b>	<b>\$ -</b>	<b>\$ 43,530.00</b>

\*Over the duration of the project-Labor costs included in Activity #1300

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1300</b>		<b>Activity Description: Project Management and Controls</b>				
	<b># People</b>	<b>Hrs./Person</b>	<b>Hrly. Rate</b>	<b>Labor Total</b>	<b>Material Total</b>	<b>TOTAL</b>
Project Manager	1	4400.00	\$ 90.00	\$ 396,000.00	\$ -	\$ 396,000.00
Planner/ Administrator	1	4534.00	\$ 75.00	\$ 340,050.00	\$ -	\$ 340,050.00
Foreman/ Safety Officer	1	4222.00	\$ 75.00	\$ 316,650.00	\$ -	\$ 316,650.00
Project Engineer	1	4216.00	\$ 80.00	\$ 337,280.00	\$ -	\$ 337,280.00
<b>TOTALS</b>	<b>4</b>			<b>\$ 1,389,980.00</b>	<b>\$ -</b>	<b>\$ 1,389,980.00</b>
		<b>Overtime (Foreman- .2x4222x(94.5-75))</b>		\$ 16,465.80		
			<b>Totals</b>	<b>\$ 1,406,445.80</b>		<b>\$ 1,406,445.80</b>

**Notes:**

- \*Assume 1 week mobilization, including training
- \*Assume 1 week construction set-up
- \*Duration of Demolition Phase=89 weeks
- \*Assume project management personnel work an average of 10 hr/day during demolition phase
- \***Summary:** The resultant total project manhours for project management personnel is **5440 - 890 = 4550** hours each.  
Per-person hours reported on this sheet are the remainder of **4550** total hours less hours assigned to each individual on other activity cost sheets

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 1400</b>		<b>Activity Description: Demobilization</b>					
	<b># People</b>	<b>Hrs./Person</b>	<b>Hrly. Rate</b>	<b>Labor Total</b>	<b>Material Total</b>	<b>TOTAL</b>	
<b>Remove Environ. Controls/Clean Up</b>							
Foreman/ Safety Officer	1.00	16.00	\$ 75.00	\$ 1,200.00	\$ 2,000.00	\$ 3,200.00	
Laborer (Skilled)	1.00	96.00	\$ 68.00	\$ 6,528.00		\$ 6,528.00	
Laborer (Unskilled)	2.50	96.00	\$ 48.00	\$ 11,520.00		\$ 11,520.00	
<b>Decontaminate Equipment</b>							
Foreman/ Safety Officer	1.00	40.00	\$ 75.00	\$ 3,000.00	\$ -	\$ 3,000.00	
Laborer (Unskilled)	3.00	60.00	\$ 48.00	\$ 8,640.00	\$ -	\$ 8,640.00	
Electrician (Helper)	1.00	60.00	\$ 48.00	\$ 2,880.00	\$ -	\$ 2,880.00	
<b>Trailer Removal/ Utility Disconnect</b>							
Foreman/ Safety Officer	1.00	40.00	\$ 75.00	\$ 3,000.00	\$ -	\$ 3,000.00	
Laborer (Unskilled)	2.00	60.00	\$ 48.00	\$ 5,760.00	\$ -	\$ 5,760.00	
Electrician (Helper)	1.00	40.00	\$ 48.00	\$ 1,920.00	\$ -	\$ 1,920.00	
<b>TOTALS</b>	<b>14</b>			<b>\$ 44,448.00</b>	<b>\$ 2,000.00</b>	<b>\$ 46,448.00</b>	

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2000</b>		<b>Activity Description: Demolition Activities</b>		
	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>	
2100 Area A Demolition	\$ 548,279.51	\$ 64,287.00	\$ 612,566.51	
2200 Area B Demolition	\$ 519,975.20	\$ 52,125.00	\$ 572,100.20	
2300 Area C Demolition	\$ 33,864.68	\$ -	\$ 33,864.68	
2400 Area D Demolition	\$ 16,971.84	\$ -	\$ 16,971.84	
2500 Demolition Materials and Equipment	\$ 514,317.24	\$ 1,381,369.98	\$ 1,895,687.22	
Overtime (20% of all demolition labor hours worked)	\$ 84,937.24	\$ -	\$ 84,937.24	
	\$ 1,718,345.71	\$ 1,497,781.98	\$ 3,216,127.70	
Uncertainty for decontamination efforts (0% of Demolition Labor)	\$ -			
<b>TOTAL 2000</b>	<b>\$ 1,718,345.71</b>	<b>\$ 1,497,781.98</b>	<b>\$ 3,216,127.70</b>	

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

<b>Activity No. 2100</b>	<b>Activity Description: Area A Demolition</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
2110 Remove Electrical Equipment - Interior	\$ 35,709.90	\$ -	\$ 35,709.90
2120 Remove Mechanical Equipment - Interior	\$ 53,581.75	\$ -	\$ 53,581.75
2130 Demolish	\$ 458,987.86	\$ 64,287.00	\$ 523,274.86
<b>TOTAL 2100</b>	<b>\$ 548,279.51</b>	<b>\$ 64,287.00</b>	<b>\$ 612,566.51</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2110</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area A)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Electrical Equipment Removals	\$ 35,709.90	\$ -	\$ 35,709.90

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2120</b>	<b>Activity Description: Remove Mechanical Equipment - Interior (Area A)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Mechanical Equipment - Interior	\$ 53,581.75	\$ -	\$ 53,581.75

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2130</b>		<b>Activity Description: Demolish (Area A)</b>		
	<b>Labor</b>		<b>Material</b>	<b>TOTAL</b>
2131 Enlarge Doorway	\$ 1,603.56		\$ 202.00	\$ 1,805.56
2132 Remove Floor Slab	\$ 136,000.48		\$ 43,525.00	\$ 179,525.48
2133 Excavate, Cut and Remove Sub-Cells	\$ 97,521.68		\$ 9,040.00	\$ 106,561.68
2134 Cut up Dry Storage Area	\$ 7,968.00		\$ 1,356.00	\$ 9,324.00
2135 Cut Canopy Along West Side	\$ 328.00		\$ -	\$ 328.00
2136 Separate Roof Areas	\$ 13,957.28		\$ -	\$ 13,957.28
2137 Remove Low Roof	\$ 13,957.28		\$ 200.00	\$ 14,157.28
2138 Remove Equipment - Roof	\$ 18,437.82		\$ -	\$ 18,437.82
2139 Strip Roofing	\$ 33,465.60		\$ -	\$ 33,465.60
2140 Remove Exterior Walls	\$ 2,310.72		\$ -	\$ 2,310.72
2141 Remove Pre-cast Roof Panels	\$ 20,962.48		\$ 325.00	\$ 21,287.48
2142 Remove Roof Trusses	\$ 3,406.32		\$ 500.00	\$ 3,906.32
2143 Remove Remaining Above Grade	\$ 5,976.00		\$ -	\$ 5,976.00
2144 Remove Alpha/Gamma Cells	\$ 32,018.08		\$ 9,139.00	\$ 41,157.08
2145 Excavate and Cut Footers	\$ 71,074.56		\$ -	\$ 71,074.56
<b>TOTAL 2130</b>	<b>\$ 458,987.86</b>		<b>\$ 64,287.00</b>	<b>\$ 523,274.86</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2131</b>	<b>Activity Description: Demolition Sequence #1, Enlarge Doorway</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Enlarge Doorway	\$ 1,603.56	\$ 202.00	\$ 1,805.56

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2132	Activity Description: Demolition Sequence #3, Remove Floor Slab
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	Labor	Material	TOTAL
Section #1	\$ 13,459.28	\$ 4,001.00	\$ 17,460.28
Section #2	\$ 21,447.20	\$ 6,164.00	\$ 27,611.20
Section #3	\$ 1,885.76	\$ 421.00	\$ 2,306.76
Section #4	\$ 15,696.96	\$ 4,647.00	\$ 20,343.96
Section #5	\$ 29,501.52	\$ 8,490.00	\$ 37,991.52
Grade Beams	\$ 54,009.76	\$ 19,802.00	\$ 73,811.76
<b>TOTALS</b>	<b>\$ 136,000.48</b>	<b>\$ 43,525.00</b>	<b>\$ 179,525.48</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2133</b>	<b>Activity Description: Demolition Sequence #4, Excavate, Cut and Remove Subcells</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Subcell Removal	\$ 97,521.68	\$ 9,040.00	\$ 106,561.68

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2134	Activity Description: Demolition Sequence #5, Cut Up Dry Storage Area
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	Labor	Material	TOTAL
Cut Up Dry Storage Area	\$ 7,968.00	\$ 1,356.00	\$ 9,324.00

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2135</b>	<b>Activity Description: Demolition Sequence #9, Cut Canopy Along West Side</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Cut Canopy	\$ 328.00	\$ -	\$ 328.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2136	Activity Description: Demolition Sequence #14, Separate Roof Areas		
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	Labor	Material	TOTAL
Separate Roof Areas	\$ 13,957.28	\$ -	\$ 13,957.28

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2137</b>	<b>Activity Description: Demolition Sequence #15, Remove Low Roof</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Low Roof	\$ 13,957.28	\$ 200.00	\$ 14,157.28

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2138</b>	<b>Activity Description: Demolition Sequence #16, Remove Equipment Roof (Area A)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Roof Equipment	\$ 18,437.82	\$ -	\$ 18,437.82

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2139</b>	<b>Activity Description: Demolition Sequence #17, Strip Roofing</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Strip Roofing	\$ 33,465.60	\$ -	\$ 33,465.60

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2140</b>	<b>Activity Description: Demolition Sequence #18, Remove Exterior Walls</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Exterior Walls	\$ 2,310.72	\$ -	\$ 2,310.72

BCLDP JN-1 Demolition Project Estimate

**ACTIVITY COST SHEET**

<b>Activity No. 2141</b>	<b>Activity Description: Demolition Sequence #19, Remove Pre-Cast Roof Panels</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Roof Panels	\$ 20,962.48	\$ 325.00	\$ 21,287.48

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2142</b>	<b>Activity Description: Demolition Sequence #20, Remove Roof Trusses</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Trusses	\$ 3,406.32	\$ 500.00	\$ 3,906.32

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2143	Activity Description: Demolition Sequence #21, Remove Remaining Above Grade		
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	Labor	Material	TOTAL
Remove Above Grade	\$ 5,976.00	\$ -	\$ 5,976.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2144	Activity Description: Demolition Sequence #31, Remove Alpha/Gamma Cells
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	Labor	Material	TOTAL
Slabs	\$ 12,483.20	\$ 3,646.00	\$ 16,129.20
Beams	\$ 15,046.24	\$ 5,072.00	\$ 20,118.24
Cells	\$ 4,488.64	\$ 421.00	\$ 4,909.64
<b>TOTALS</b>	<b>\$ 32,018.08</b>	<b>\$ 9,139.00</b>	<b>\$ 41,157.08</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2145	Activity Description: Demolition Sequence #32, Excavate and Cut Footers
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	Labor	Material	TOTAL
Excavate and Cut Footers	\$ 71,074.56	\$ -	\$ 71,074.56

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2200</b>	<b>Activity Description: Area B Demolition</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
2210 Remove Electrical Equipment - Interior	\$ 23,486.03	\$ -	\$ 23,486.03
2220 Remove Mechanical Equipment - Interior	\$ 17,380.93	\$ -	\$ 17,380.93
2230 Demolish	\$ 479,108.24	\$ 52,125.00	\$ 531,233.24
<b>TOTAL 2200</b>	<b>\$ 519,975.20</b>	<b>\$ 52,125.00</b>	<b>\$ 572,100.20</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2210</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area B)</b>
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	Qty.	Units	Hours	Mhrs. Total	Hourly Rate	Labor Total	Labor Adjusted	Mat. Total	Vol./Unit ft3	Total Vol. Ft3
<b>Electrical Removals</b>										
Flourescent Lights	0	ea.	0.49	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Mercury Vapor Lights	63	ea.	1.33	83.98	\$ 54.67	\$ 4,591.13	\$ 7,621.28	\$ -	8.00	504.00
Panelboards	8	ea.	6.15	49.23	\$ 54.67	\$ 2,691.51	\$ 4,467.91	\$ -	3.33	26.64
Transformers	3	ea.	5.33	16.00	\$ 54.67	\$ 874.67	\$ 1,451.94	\$ -	3.00	9.00
Junction Boxes	0	ea.	0.65	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Bus Duct	70	LF	0.27	18.69	\$ 54.67	\$ 1,021.78	\$ 1,696.16	\$ -	0.25	17.50
Disconnect Switches	17	ea.	0.91	15.45	\$ 54.67	\$ 844.82	\$ 1,402.39	\$ -	0.50	8.50
Devices	98	ea.	0.08	7.35	\$ 54.67	\$ 401.82	\$ 667.03	\$ -	0.02	1.47
Conduit & Wire	1	hr	57.00	57.00	\$ 54.67	\$ 3,116.19	\$ 5,172.88	\$ -		22.30
Wireway	100	LF	0.11	11.09	\$ 54.67	\$ 606.29	\$ 1,006.44	\$ -	0.00	0.00
				<u>258.79</u>			<u>\$ 23,486.03</u>	<u>\$ -</u>		<u>589.41</u>

Number of Sealands **1**

\*Standard cutters and saws used for demolition

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2220	Activity Description: Remove Mechanical Equipment - Interior (Area B)		
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	Labor	Material	Total
Remove Mechanical Equipment - Interior	\$ 17,380.93	\$ -	\$ 17,380.93

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2230</b>		<b>Activity Description: Demolish (Area B)</b>		
	<b>Labor</b>		<b>Material</b>	<b>TOTAL</b>
2231 Remove Mezzanine Stairs	\$ 544.48	\$	-	\$ 544.48
2232 Remove Mezzanine	\$ 1,381.12	\$	-	\$ 1,381.12
2233 Remove Slab to Grade	\$ 105,343.60	\$	26,776.00	\$ 132,119.60
2234 Cut Pool and Hot Cell to -14'	\$ 159,147.52	\$	24,149.00	\$ 183,296.52
2235 Remove Equipment - Roof	\$ 11,081.20	\$	-	\$ 11,081.20
2236 Remove Wall Panels	\$ 51,725.60	\$	700.00	\$ 52,425.60
2237 Remove Masonry Walls	\$ 3,957.44	\$	-	\$ 3,957.44
2238 Remove Roof Deck and Purlins	\$ 51,752.16	\$	-	\$ 51,752.16
2239 Remove Roof Beams	\$ 3,904.32	\$	-	\$ 3,904.32
2240 Remove Bridge Crane	\$ 9,030.40	\$	500.00	\$ 9,530.40
2241 Remove Columns Above 25'	\$ 11,480.56	\$	-	\$ 11,480.56
2242 Remove Remaining Columns	\$ 24,514.88	\$	-	\$ 24,514.88
2243 Excavate and Cut Footers (30%)	\$ 45,244.96	\$	-	\$ 45,244.96
<b>TOTAL 2230</b>	<b>\$ 479,108.24</b>	<b>\$</b>	<b>52,125.00</b>	<b>\$ 531,233.24</b>

BCLDP JN-1 Demolition Project Estimate

**ACTIVITY COST SHEET**

<b>Activity No. 2231</b>	<b>Activity Description: Demolition Sequence #2, Remove Mezzanine Stairs</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Stairs	\$ 544.48	\$ -	\$ 544.48

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2232	Activity Description: Demolition Sequence #6, Remove Mezzanine		
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	Labor	Material	TOTAL
Remove Mezzanine	\$ 1,381.12	\$ -	\$ 1,381.12

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2233

Activity Description: Demolition Sequence #7, Remove Slab To Grade

	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Remove Slab	\$ 105,343.60	\$ 26,776.00	\$ 132,119.60

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2234</b>	<b>Activity Description: Demolition Sequence #8, Cut Pool and Hot Cell to -14'</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Cell Wall	\$ 128,816.00	\$ 19,425.00	\$ 148,241.00
Pool	\$ 30,331.52	\$ 4,724.00	\$ 35,055.52
	<b>\$ 159,147.52</b>	<b>\$ 24,149.00</b>	<b>\$ 183,296.52</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2235	Activity Description: Demolition Sequence #23, Remove Equipment - Roof		
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	Labor	Material	Total
Remove Roof Equipment	\$ 11,081.20	\$ -	\$ 11,081.20

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2236	Activity Description: Demolition Sequence #24, Remove Panel Walls
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	Labor	Material	TOTAL
Remove Wall Panels	\$ 51,725.60	\$ 700.00	\$ 52,425.60

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2237	Activity Description: Demolition Sequence #25, Remove Masonry Walls		
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	Labor	Material	TOTAL
Demolish Walls	\$ 3,957.44	\$ -	\$ 3,957.44

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2238	Activity Description: Demolition Sequence #26, Remove Roof Deck and Purlins		
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	Labor	Material	Total
Remove Roof Deck and Purlins	\$ 51,752.16	\$ -	\$ 51,752.16

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2239	Activity Description: Demolition Sequence #27, Remove Roof Beams		
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	Labor	Material	Total
Remove Roof Beams	\$ 3,904.32	\$ -	\$ 3,904.32

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2240</b>	<b>Activity Description: Demolition Sequence #28, Remove Bridge Crane</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Bridge Crane	\$ 9,030.40	\$ 500.00	\$ 9,530.40

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2241	Activity Description: Demolition Sequence #29, Remove Columns Above 25'		
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	Labor	Material	Total
Remove Columns	\$ 11,480.56	\$ -	\$ 11,480.56

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2242</b>	<b>Activity Description: Demolition Sequence #30, Remove Remaining Columns</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Remaining Columns	\$ 24,514.88	\$ -	\$ 24,514.88

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2243	Activity Description: Demolition Sequence #32, Excavate and Cut Footers
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	Labor	Material	Total
Excavate and Cut Footers	\$ 45,244.96	\$ -	\$ 45,244.96

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2300</b>	<b>Activity Description: Area C Demolition</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
2310 Remove Electrical Equipment - Interior	\$ 7,077.74	\$ -	\$ 7,077.74
2320 Remove Mechanical Equipment - Interior	\$ 7,722.20	\$ -	\$ 7,722.20
2330 Demolish	\$ 19,064.74	\$ -	\$ 19,064.74
<b>TOTAL 2300</b>	<b>\$ 33,864.68</b>	<b>\$ -</b>	<b>\$ 33,864.68</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2310</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area C)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Electrical Equipment Removals	\$ 7,077.74	\$ -	\$ 7,077.74

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2320</b>	<b>Activity Description: Remove Mechanical Equipment - Interior (Area C)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Mechanical Equipment - Interior	\$ 7,722.20	\$ -	\$ 7,722.20

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2330	Activity Description: Demolish (Area C)		
	Labor	Material	TOTAL
2331 Remove Equipment - Exterior	\$ 4,916.74	\$ -	\$ 4,916.74
2332 Create Separation	\$ 1,040.00	\$ -	\$ 1,040.00
2333 Remove Above Grade Structure	\$ 2,080.00	\$ -	\$ 2,080.00
2334 Remove Slab to Grade	\$ 4,896.00	\$ -	\$ 4,896.00
2335 Excavate Footers	\$ 6,132.00	\$ -	\$ 6,132.00
<b>TOTAL 2330</b>	<b>\$ 19,064.74</b>	<b>\$ -</b>	<b>\$ 19,064.74</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2331</b>	<b>Activity Description: Demolition Sequence #10, Remove Equipment Exterior</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Remove Roof Equipment	\$ 4,916.74	\$ -	\$ 4,916.74

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2332	Activity Description: Demolition Sequence #11, Create Separation
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	Labor	Material	Total
Create Separation	\$ 1,040.00	\$ -	\$ 1,040.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2333	Activity Description: Demolition Sequence #12, Remove Above Grade Structure
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	Labor	Material	Total
Remove Above Grade Structure	\$ 2,080.00	\$ -	\$ 2,080.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2334	Activity Description: Demolition Sequence #13, Remove Slab to Grade		
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	Labor	Material	Total
Remove Slab to Grade	\$ 4,896.00	\$ -	\$ 4,896.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2335	Activity Description: Demolition Sequence #32, Excavate and Cut Footers		
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	Labor	Material	Total
Excavate and Cut Footers	\$ 6,132.00	\$ -	\$ 6,132.00

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2400</b>	<b>Activity Description: Area D Demolition</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
2410 Remove Electrical Equipment - Interior	\$ -	\$ -	\$ -
2420 Remove Mechanical Equipment - Interior	\$ -	\$ -	\$ -
2430 Demolish	\$ 16,971.84	\$ -	\$ 16,971.84
<b>TOTAL 2400</b>	<b>\$ 16,971.84</b>	<b>\$ -</b>	<b>\$ 16,971.84</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2410	Activity Description: Remove Electrical Equipment - Interior (Area D)		
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	Labor	Material	Total
Electrical Equipment Removals	\$ -	\$ -	\$ -

N/A-No Equipment present in this area

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 2420	Activity Description: Remove Mechanical Equipment - Interior (Area D)		
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	Labor	Material	Total
Remove Mechanical Equipment - Interior	\$ -	\$ -	\$ -

N/A-No Equipment present in this area

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

<b>Activity No. 2430</b>	<b>Activity Description: Demolish (Area D)</b>		
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
2431 Demolish Storage Building	\$ 8,605.44	\$ -	\$ 8,605.44
2432 Excavate Footers (10%)	\$ 8,366.40	\$ -	\$ 8,366.40
<b>TOTAL 2430</b>	<b>\$ 16,971.84</b>	<b>\$ -</b>	<b>\$ 16,971.84</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2431</b>	<b>Activity Description: Demolition Sequence #22, Demolish Storage Building</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Demolish Storage Building	\$ 8,605.44	\$ -	\$ 8,605.44

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2432</b>	<b>Activity Description: Demolition Sequence #32, Excavate and Cut Footers</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Excavate and Cut Footers	\$ 8,366.40	\$ -	\$ 8,366.40

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 2500</b>	<b>Activity Description: Demolition Materials and Equipment</b>
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	<b>Labor</b>	<b>Material</b>	<b>TOTAL</b>
Equipment	\$ 446,400.00	\$ 1,091,270.00	\$ 1,537,670.00
Materials	\$ -	\$ 188,437.98	\$ 188,437.98
Clean Area Protective Covers	\$ 13,386.24	\$ 16,024.00	\$ 29,410.24
Containments	\$ 54,531.00	\$ 85,638.00	\$ 140,169.00
<b>TOTALS</b>	<b>\$ 514,317.24</b>	<b>\$ 1,381,369.98</b>	<b>\$ 1,895,687.22</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 3000</b>	<b>Activity Description: Site Restoration</b>
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	<b>Labor Total</b>	<b>Mat. Total</b>	<b>TOTAL</b>
Final Site Grading	\$ 1,360.00	\$ -	\$ 1,360.00
Mulching and Seeding	\$ 3,056.00	\$ 1,750.00	\$ 4,806.00
3100: Area A Restoration	\$ 26,456.00	\$ 53,670.00	\$ 80,126.00
3200: Area B Restoration	\$ 6,832.00	\$ 14,792.00	\$ 21,624.00
3300: Area C Restoration	\$ 2,896.00	\$ 5,580.00	\$ 8,476.00
3400: Area D Restoration	\$ -	\$ -	\$ -
	<b>\$ 40,600.00</b>	<b>\$ 75,792.00</b>	<b>\$ 116,392.00</b>

**Notes:**

**Mulching and Seeding=\$.34 per yd2, 24 hours Unskilled, 28 hours Skilled**

**Final site grading=20 hours of laborer (Skilled)**

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 3100</b>	<b>Activity Description: Area A Restoration</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Area A Restoration	\$ 26,456.00	\$ 53,670.00	\$ 80,126.00

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY COST SHEET**

<b>Activity No. 3200</b>	<b>Activity Description: Area B Restoration</b>		
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	<b>Labor</b>	<b>Material</b>	<b>Total</b>
Area B Restoration	\$ 6,832.00	\$ 14,792.00	\$ 21,624.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 3300	Activity Description: Area C Restoration
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	Labor	Material	Total
Area C Restoration	\$ 2,896.00	\$ 5,580.00	\$ 8,476.00

BCLDP JN-1 Demolition Project Estimate

ACTIVITY COST SHEET

Activity No. 3400	Activity Description: Area D Restoration
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	Labor	Material	Total
Area D Restoration	\$ -	\$ -	\$ -

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**SECTION 3**

**ACTIVITY DATA SHEETS**

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**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1110</b>	<b>Activity Description: Training, Security and Badging</b>
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	<b># People</b>	<b>Hrs./Person</b>	<b>Hrly. Rate</b>	<b>Labor Total</b>	<b>TOTAL</b>
<b>Training, Security and Badging</b>					
Project Manager	1	16.00	\$ 90.00	\$ 1,440.00	\$ 1,440.00
Planner/ Administrator	1	16.00	\$ 75.00	\$ 1,200.00	\$ 1,200.00
Foreman/ Safety Officer	1	16.00	\$ 75.00	\$ 1,200.00	\$ 1,200.00
Project Engineer	1	16.00	\$ 80.00	\$ 1,280.00	\$ 1,280.00
Electrician (Lead)	1	16.00	\$ 68.00	\$ 1,088.00	\$ 1,088.00
Electrician (Helper)	2	16.00	\$ 48.00	\$ 1,536.00	\$ 1,536.00
Laborer (Skilled)	3	16.00	\$ 68.00	\$ 3,264.00	\$ 3,264.00
Laborer (Unskilled)	<u>6</u>	<u>16.00</u>	\$ 48.00	\$ 4,608.00	\$ 4,608.00
<b>TOTAL</b>	<b>16</b>	<b>128.00</b>			\$ <b>15,616.00</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1120</b>		<b>Activity Description: Trailer Setup and Hookup (1)</b>				
	<b># of Trailers</b>	<b># of Units</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total</b>	
<b>Trailer Setup &amp; Hookup<sup>(2)</sup></b>						
Office Trailer <sup>(3)</sup>	1	21	month	\$ 300.00	\$ 6,300.00	
Delivery/Setup/Knockdown/Return	1	1	lot	\$ 5,130.00	\$ 5,130.00	
Furniture	1	21	month	\$ 207.50	\$ 4,357.50	
					<b>\$ 15,787.50</b>	
<b>Break/Change Trailer<sup>(3)</sup></b>						
Break/Change Trailer <sup>(3)</sup>	1	21	month	\$ 300.00	\$ 6,300.00	
Delivery/Setup/Knockdown/Return	1	1	lot	\$ 5,130.00	\$ 5,130.00	
Furniture	1	21	month	\$ 207.50	\$ 4,357.50	
					<b>\$ 15,787.50</b>	
<b>Shower Trailer<sup>(4)</sup></b>						
Shower Trailer <sup>(4)</sup>	2	21	month	\$ 1,250.00	\$ 52,500.00	
Delivery/Setup/Knockdown/Return	2	1	lot	\$ 3,620.00	\$ 7,240.00	
Supplies (Paper/soap)	2	1	lot	\$ 50.00	\$ 100.00	
				<b>TOTAL</b>	<b>\$ 59,840.00</b>	
<b>Storage Trailer<sup>(5)</sup></b>						
Storage Trailer <sup>(5)</sup>	4	21	month	\$ 60.00	\$ 5,040.00	
Delivery/Return	4	1	lot	\$ 310.00	\$ 1,240.00	
					<b>\$ 6,280.00</b>	
<b>Mobilization/demobilization</b>						
Power		1	lot	\$ 2,500.00	\$ 2,500.00	
Water/Sewer		1	lot	\$ 10,000.00	\$ 10,000.00	
				<b>TOTAL</b>	<b>\$ 12,500.00</b>	

**NOTES:**

- <sup>(1)</sup>All unit costs obtained from Williams Scotsman (4/2001)
- <sup>(2)</sup>For the trailers, the breakeven point vs buying is 36 to 60 months rental.
- <sup>(3)</sup>Office and Break/Change trailers - 56' x 12' (Williams Scotsman)
- <sup>(4)</sup>Shower trailer - 32' x 10' including lockers/showers/toilets (Williams Scotsman)
- <sup>(5)</sup>Storage Trailers - 20' x 8' (Williams Scotsman)

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1130</b>	<b>Activity Description: Temporary Utilities</b>
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	# People	Hrs./Person	Hrly. Rate	Labor Total	Material Total	TOTAL
<b>Install ConstructionTemp. Electric Serv.</b>						
Foreman/ Safety Officer	1	40	\$ 75.00	\$ 3,000.00	\$ 300.00	\$ 3,300.00
Laborer (unskilled)	1	40	\$ 48.00	\$ 1,920.00	\$ 192.00	\$ 2,112.00
Electrician (lead)	1	40	\$ 68.00	\$ 2,720.00	\$ 272.00	\$ 2,992.00
Electrician (helper)	1	40	\$ 48.00	\$ 1,920.00	\$ 192.00	\$ 2,112.00
<b>TOTAL</b>	<b>4</b>			<b>\$ 9,560.00</b>	<b>\$ 956.00</b>	<b>\$ 10,516.00</b>

	# People	Hrs./Person	Hrly. Rate	Labor Total	Material Total	TOTAL
<b>Daily Temporary Electrical Support<sup>(1)</sup></b>						
Electrician (helper)	1	4140	\$ 48.00	\$ 198,720.00	\$ 19,872.00	\$ 218,592.00
<b>TOTAL</b>	<b>1</b>			<b>\$ 198,720.00</b>	<b>\$ 19,872.00</b>	<b>\$ 218,592.00</b>

	# of Items	# of Units	Unit	Unit Cost	Total
<b>Equipment<sup>(2)</sup></b>					
Temporary Panel (Spider Box)	4	1	ea	\$ 200.00	\$ 800.00
Transformer (75 KVA)	2	1	ea	\$ 1,535.00	\$ 3,070.00
Temporary Lighting	1	1	lot	\$ 1,000.00	\$ 1,000.00
Generators (115VAC/240VAC)	4	12	month	\$ 1,050.00	\$ 50,400.00
Generator for Breathing Air	1	12	month	\$ 1,050.00	\$ 12,600.00
Auto transfer for Breathing Air	1	12	month	\$ 3,053.00	\$ 36,636.00
Diesel fuel <sup>(3)</sup>	1	1	lot	\$ 18,750.00	\$ 18,750.00
<b>TOTAL</b>				<b>\$ 123,256.00</b>	

	# of Items	# of Units	Unit	Unit Cost	Cost	Labor Adjusted	Total
<b>High Bay Crane rewire/recertification<sup>(4)(5)</sup></b>							
Labor (Rewire)	1	99	hours	\$ 68.00	\$ 6,732.00	\$ 11,175.12	\$ 11,175.12
Materials (Rewire)	1	1	lot	\$ 8,505.00	\$ 8,505.00	\$ -	\$ 8,505.00
Recertification	1	1	lot	\$ 1,926.00	\$ 1,926.00	\$ -	\$ 1,926.00
<b>Material Tot</b>					<b>\$ 10,431.00</b>		<b>\$ 21,606.12</b>

**Notes:**

- <sup>(3)</sup>Fuel use based on 50 hours per week for 52 weeks
- <sup>(2)</sup>All unit costs obtained from MSMeans version 2001
- <sup>(1)</sup>For electrical support, one helper electrician less demolition activities
- <sup>(4)</sup>Recertification - Crane America, for 12,000 to 20,000 pounds total weight, Rated at 80% of total weight used for test
- <sup>(5)</sup>Recertification - Crane America, will use Battelle forklift to move weights for areas inaccessible to their weight cart
- \*Materials estimated at 10% of labor costs

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1140</b>		<b>Activity Description: Construction Site Setup</b>					
	<b># People</b>	<b>Hrs./Person</b>	<b>Hrly. Rate</b>	<b>Labor Total</b>	<b>Material Total</b>	<b>TOTAL</b>	
<b>Sediment and Erosion Control</b>							
Foreman/ Safety Officer	1	16.00	\$ 75.00	\$ 1,200.00	\$ -	\$ 1,200.00	
Laborer (Skilled)	1	12.00	\$ 68.00	\$ 816.00	\$ -	\$ 816.00	
Laborer (Unskilled)	2	18.00	\$ 48.00	\$ 1,728.00	\$ -	\$ 1,728.00	
Hay bales, silt fence, maintenance				\$ -	\$ 544.00	\$ 544.00	
Note: 12 basins/manholes, 24 lf of bales				\$ 3,744.00	\$ 544.00	\$ 4,288.00	
Silt fence around 3 sides, 1,000 lf							
<b>Laydown Area Prep.</b>							
Foreman/ Safety Officer	1	16.00	\$ 75.00	\$ 1,200.00	\$ -	\$ 1,200.00	
Laborer (Skilled)	1	8.00	\$ 68.00	\$ 544.00	\$ -	\$ 544.00	
Laborer (Unskilled)	5	8.00	\$ 48.00	\$ 1,920.00	\$ -	\$ 1,920.00	
Gravel (#2)				\$ -	\$ 1,665.00	\$ 1,665.00	
Note: No concrete pads require				\$ 3,664.00	\$ 1,665.00	\$ 5,329.00	
50' x100' gravel area for staging equipment							
<b>Dewatering</b>							
Foreman/ Safety Officer	1	8.00	\$ 75.00	\$ 600.00	\$ -	\$ 600.00	
Laborer (Skilled)	1.0	24.00	\$ 68.00	\$ 1,632.00	\$ -	\$ 1,632.00	
Laborer (Unskilled)	2	24.00	\$ 48.00	\$ 2,304.00	\$ -	\$ 2,304.00	
Three - 24" steel well casings (25' deep)					\$ 1,088.00	\$ 1,088.00	
Four - 2", submersible pumps				\$ -	\$ 20,000.00	\$ 20,000.00	
				\$ 4,536.00	\$ 21,088.00	\$ 25,624.00	
<b>Settlement Pond</b>							
Foreman/ Safety Officer	1	8.00	\$ 75.00	\$ 600.00	\$ -	\$ 600.00	
Laborer (Skilled)	1	8.00	\$ 68.00	\$ 544.00	\$ -	\$ 544.00	
Laborer (Unskilled)	3	24.00	\$ 48.00	\$ 3,456.00	\$ -	\$ 3,456.00	
Containment (Lined berm)					\$ 9,579.00	\$ 9,579.00	
				\$ 4,600.00	\$ 9,579.00	\$ 14,179.00	
Uncertainty(Water tank, trailer, 10,000 gallons, 1 month)				\$ -	\$ 2,975.00	\$ 2,975.00	
Tanks-30,000 gal., cradles/foundations (2)					\$ 45,000.00	\$ 45,000.00	
Foreman/Safety Officer	1	8	\$ 75.00	\$ 600.00		\$ 600.00	
Laborer (Skilled)	1	40	\$ 68.00	\$ 2,720.00		\$ 2,720.00	
Laborer (Unskilled)	1	40	\$ 48.00	\$ 1,920.00		\$ 1,920.00	
<b>TOTALS</b>				\$ 14,376.00	\$ 78,642.00	\$ 93,018.00	
<b>Access Controls &amp; Fencing</b>							
Foreman/ Safety Officer	1	16.00	\$ 75.00	\$ 1,200.00	\$ -	\$ 1,200.00	
Laborer (Skilled)	0	0.00	\$ 68.00	\$ -	\$ -	\$ -	
Laborer (Unskilled)	2	50.00	\$ 48.00	\$ 4,800.00	\$ -	\$ 4,800.00	
Construction Fence (1,600 lf)				\$ -	\$ 9,600.00	\$ 9,600.00	
				\$ 6,000.00	\$ 9,600.00	\$ 15,600.00	

**NOTE:Deconstruction containment fencing shall be limited to industry standard plastic construction fencing with two 6' high chain link swing gates for site access.**

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 1210</b>	<b>Activity Description: Review Current Radiological Status</b>
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	<b># People</b>	<b>Hrs./Person</b>	<b>Hrly. Rate</b>	<b>Labor Total</b>	<b>Material Total</b>	<b>TOTAL</b>
<b>Review Radiological Status (Initial)</b>						
Foreman/Safety Officer	1	36.00	\$ 75.00	\$ 2,700.00	\$ -	\$ 2,700.00
Project Engineer	1	16.00	\$ 80.00	\$ 1,280.00	\$ -	\$ 1,280.00
Project Manager	1	8.00	\$ 90.00	\$ 720.00	\$ -	\$ 720.00
					<b>TOTAL \$</b>	<b>4,700.00</b>
<b>Uncertainty[Intrusive Characterization Support (10 core borings)]</b>						
Foreman/Safety Officer	1	10.00	\$ 75.00	\$ 750.00	\$ -	\$ 750.00
Project Engineer	1	4.00	\$ 80.00	\$ 320.00	\$ -	\$ 320.00
Laborer Unskilled	2	40.00	\$ 48.00	\$ 3,840.00	\$ -	\$ 3,840.00
					<b>TOTAL \$</b>	<b>4,910.00</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 1220		Activity Description: Procedure Preparation				
	# People	Hrs./Person	Hrly. Rate	Labor Total	Material Total	TOTAL
<b>Procedure Preparation</b>						
Project Management Plan						
Project Manager	1	40.00	\$ 90.00	\$ 3,600.00	\$ -	\$ 3,600.00
Foreman/Safety Officer	1	8.00	\$ 75.00	\$ 600.00	\$ -	\$ 600.00
Project Engineer	1	20.00	\$ 80.00	\$ 1,600.00	\$ -	\$ 1,600.00
					<b>TOTAL</b>	<b>\$ 5,800.00</b>
Health and Safety Plan						
Project Manager	1	8.00	\$ 90.00	\$ 720.00	\$ -	\$ 720.00
Foreman/Safety Officer	1	40.00	\$ 75.00	\$ 3,000.00	\$ -	\$ 3,000.00
Project Engineer	1	8.00	\$ 80.00	\$ 640.00	\$ -	\$ 640.00
					<b>TOTAL</b>	<b>\$ 4,360.00</b>
Quality Assurance Plan						
Project Manager	1	20.00	\$ 90.00	\$ 1,800.00	\$ -	\$ 1,800.00
Foreman/Safety Officer	1	10.00	\$ 75.00	\$ 750.00	\$ -	\$ 750.00
Project Engineer	1	20.00	\$ 80.00	\$ 1,600.00	\$ -	\$ 1,600.00
					<b>TOTAL</b>	<b>\$ 4,150.00</b>
Area Specific Procedures*						
Project Engineer	1	0.00	\$ 80.00	\$ -	\$ -	\$ -
					<b>TOTAL</b>	<b>\$ -</b>
Waste Packaging Instructions						
Project Engineer	1	50.00	\$ 80.00	\$ 4,000.00	\$ -	\$ 4,000.00
Project Manager	1	8.00	\$ 90.00	\$ 720.00	\$ -	\$ 720.00
				\$ 4,720.00	<b>TOTAL</b>	<b>\$ 4,720.00</b>
Operating Procedures (Five)						
Project Manager	1	50.00	\$ 90.00	\$ 4,500.00	\$ -	\$ 4,500.00
Project Engineer	1	250.00	\$ 80.00	\$ 20,000.00	\$ -	\$ 20,000.00
					<b>TOTAL</b>	<b>\$ 24,500.00</b>
<b>TOTAL</b>					\$ -	<b>\$ 43,530.00</b>

\*Over the duration of the project-Labor costs included in Activity #1300

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2110</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area A)</b>
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	Qty.	Units	Hours	Mhrs. Total	Hourly Rate	Labor Total	Labor Adjusted	Mat. Total	Vol./Unit ft3	Total Vol. Ft3
<b>Electrical Removals</b>										
Flourescent Lights	47	ea.	0.49	22.80	\$ 54.67	\$ 1,246.20	\$ 2,068.70	\$ -	4.00	188.00
Mercury Vapor Lights	76	ea.	1.33	101.31	\$ 54.67	\$ 5,538.51	\$ 9,193.92	\$ -	8.00	608.00
Panelboards	14	ea.	6.15	86.16	\$ 54.67	\$ 4,710.15	\$ 7,818.85	\$ -	3.33	46.62
Transformers	7	ea.	5.33	37.33	\$ 54.67	\$ 2,040.89	\$ 3,387.87	\$ -	3.00	21.00
Junction Boxes	4	ea.	0.65	2.60	\$ 54.67	\$ 142.14	\$ 235.96	\$ -	4.00	16.00
Bus Duct	156	LF	0.27	41.65	\$ 54.67	\$ 2,277.11	\$ 3,780.01	\$ -	0.25	39.00
Disconnect Switches	19	ea.	0.91	17.27	\$ 54.67	\$ 944.21	\$ 1,567.38	\$ -	0.50	9.50
Devices	125	ea.	0.08	9.38	\$ 54.67	\$ 512.53	\$ 850.80	\$ -	0.02	1.88
Conduit & Wire	1	hr	75.00	75.00	\$ 54.67	\$ 4,100.25	\$ 6,806.42	\$ -		28.30
Wireway	0	LF	-	-	\$ 54.67	\$ -	\$ -	\$ -	0.00	<u>0.00</u>
				<u>393.49</u>			<u>\$ 35,709.90</u>	\$ -		<u>958.30</u>

Number of Sealands

2

\*Standard cutters and saws used for demolition

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2120		Activity Description: Remove Mechanical Equipment - Interior (Area A)											
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Unit Volume ft3	Total Volume ft3	Unit Weight #'s	Total Weight #'s	
<b>Equipment Removals*</b>													
	1	ea	4.00	\$ 48.00	8.00	\$ 68.00	\$ 736.00	\$ 1,221.76	312	312	4,000	4,000	
	1	ea	14.60	\$ 48.00	14.60	\$ 68.00	\$ 1,693.60	\$ 2,811.38	120	120	4,000	4,000	
	1	ea	7.30	\$ 48.00	7.30	\$ 68.00	\$ 846.80	\$ 1,405.69	100	100	2,000	2,000	
	2	ea	0.89	\$ 48.00	0.89	\$ 68.00	\$ 206.48	\$ 342.76	16	32	200	400	
	1	ea	0.89	\$ 48.00	0.89	\$ 68.00	\$ 103.24	\$ 171.38	16	16	200	200	
	1	ea	0.00	\$ 48.00	1.33	\$ 68.00	\$ 90.44	\$ 150.13	35	35	100	100	
	1	ea	0.00	\$ 48.00	2.67	\$ 68.00	\$ 619.44	\$ 1,028.27	75	150	600	1,200	
	2	ea	2.67	\$ 48.00	1.78	\$ 68.00	\$ 412.96	\$ 685.51	13	26	200	400	
	2	ea	1.78	\$ 48.00	1.78	\$ 68.00	\$ 412.96	\$ 685.51	13	26	200	400	
	1	lot	<u>64.50</u>	\$ 48.00	<u>359.90</u>	\$ 68.00	\$ 27,569.20	\$ 45,764.87	198	<u>198</u>	300	<u>300</u>	
			<b>96.630</b>		<b>397.36</b>		<b>TOTAL</b>	<b>\$ 53,581.75</b>		<b>989</b>		<b>12,600</b>	
										<b>Number of Sealands</b>			<b>2</b>

Note: Equipment unhooked using standard methods and moved to Sealand with a forklift  
Waste Volume=989 ft3 (2 Sealands because of 5,000 linear feet of piping)  
Waste Weight=12,600 pounds

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2131	Activity Description: Demolition Sequence #1, Enlarge Doorway									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Enlarge Doorway*</b>										
New Lintel	ea	1	Laborer (Skilled)	1.50	\$ 68.00	\$ 102.00	\$ 169.32	\$ 136.00	\$ 305.32	
Cut out wall (12'x12')	ea	1	Laborer (Unskilled)	18.00	\$ 48.00	\$ 864.00	\$ 1,434.24	\$ 66.00	\$ 1,500.24	
							<b>\$ 1,603.56</b>	<b>\$ 202.00</b>	<b>\$ 1,805.56</b>	<b>3</b>

Notes:

Waste Volume=192 ft3  
 Waste Weight=14,400 #  
 \*Demolition using hand tools

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2132		Activity Description: Demolition Sequence #3, Remove Floor Slab								
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Section #1</b>										
Saw cut slab	linear feet	610	Laborer (Skilled)	31.00	\$ 68.00	\$ 2,108.00	\$ 3,499.28	\$ 2,306.00	\$ 5,805.28	
Layout and drill anchors	ea	240	Laborer (Unskilled)	49.00	\$ 48.00	\$ 2,352.00	\$ 3,904.32	\$ 63.00	\$ 3,967.32	
Expansion Anchors	ea	240	Laborer (Unskilled)	16.00	\$ 48.00	\$ 768.00	\$ 1,274.88	\$ 1,632.00	\$ 2,906.88	
Lift and Package Sections	ea	60	Laborer (Unskilled)	60.00	\$ 48.00	\$ 2,880.00	\$ 4,780.80	\$ -	\$ 4,780.80	
							\$ 13,459.28	\$ 4,001.00	\$ 17,460.28	15
Subsections Weigh 1782# Use 4 pieces per B-25										
<b>Section #2</b>										
Saw cut slab	linear feet	898	Laborer (Skilled)	46.00	\$ 68.00	\$ 3,128.00	\$ 5,192.48	\$ 3,395.00	\$ 8,587.48	
Layout and drill anchors	ea	392	Laborer (Unskilled)	80.00	\$ 48.00	\$ 3,840.00	\$ 6,374.40	\$ 103.00	\$ 6,477.40	
Expansion Anchors	ea	392	Laborer (Unskilled)	26.00	\$ 48.00	\$ 1,248.00	\$ 2,071.68	\$ 2,666.00	\$ 4,737.68	
Lift and Package Sections	ea	98	Laborer (Unskilled)	98.00	\$ 48.00	\$ 4,704.00	\$ 7,808.64	\$ -	\$ 7,808.64	
							\$ 21,447.20	\$ 6,164.00	\$ 27,611.20	24.5
<b>Section #3</b>										
Saw cut slab	linear feet	74	Laborer (Skilled)	4.00	\$ 68.00	\$ 272.00	\$ 451.52	\$ 280.00	\$ 731.52	
Layout and drill anchors	ea	48	Laborer (Unskilled)	4.00	\$ 48.00	\$ 192.00	\$ 318.72	\$ 13.00	\$ 331.72	
Expansion Anchors	ea	48	Laborer (Unskilled)	2.00	\$ 48.00	\$ 96.00	\$ 159.36	\$ 128.00	\$ 287.36	
Lift and Package Sections	ea	60	Laborer (Unskilled)	12.00	\$ 48.00	\$ 576.00	\$ 956.16	\$ -	\$ 956.16	
							\$ 1,885.76	\$ 421.00	\$ 2,306.76	3
<b>Section #4</b>										
Saw cut slab	linear feet	706	Laborer (Skilled)	36.00	\$ 68.00	\$ 2,448.00	\$ 4,063.68	\$ 2,669.00	\$ 6,732.68	
Layout and drill anchors	ea	280	Laborer (Unskilled)	57.00	\$ 48.00	\$ 2,736.00	\$ 4,541.76	\$ 74.00	\$ 4,615.76	
Expansion Anchors	ea	280	Laborer (Unskilled)	19.00	\$ 48.00	\$ 912.00	\$ 1,513.92	\$ 1,904.00	\$ 3,417.92	
Lift and Package Sections	ea	60	Laborer (Unskilled)	70.00	\$ 48.00	\$ 3,360.00	\$ 5,577.60	\$ -	\$ 5,577.60	
							\$ 15,696.96	\$ 4,647.00	\$ 20,343.96	15
<b>Section #5</b>										
Saw cut slab	linear feet	1257	Laborer (Skilled)	63.00	\$ 68.00	\$ 4,284.00	\$ 7,111.44	\$ 4,676.00	\$ 11,787.44	
Layout and drill anchors	ea	540	Laborer (Unskilled)	110.00	\$ 48.00	\$ 5,280.00	\$ 8,764.80	\$ 142.00	\$ 8,906.80	
Expansion Anchors	ea	540	Laborer (Unskilled)	36.00	\$ 48.00	\$ 1,728.00	\$ 2,868.48	\$ 3,672.00	\$ 6,540.48	
Lift and Package Sections	ea	135	Laborer (Unskilled)	135.00	\$ 48.00	\$ 6,480.00	\$ 10,756.80	\$ -	\$ 10,756.80	
							\$ 29,501.52	\$ 8,490.00	\$ 37,991.52	33.75
<b>Grade Beams</b>										
Saw cut beams	linear feet	406	Laborer (Skilled)	398.00	\$ 68.00	\$ 27,064.00	\$ 44,926.24	\$ 18,757.00	\$ 63,683.24	
Layout and drill anchors	ea	100	Laborer (Unskilled)	30.00	\$ 48.00	\$ 1,440.00	\$ 2,390.40	\$ 39.00	\$ 2,429.40	
Expansion Anchors	ea	100	Laborer (Unskilled)	10.00	\$ 48.00	\$ 480.00	\$ 796.80	\$ 1,006.00	\$ 1,802.80	
Lift and Package Sections	ea	74	Laborer (Unskilled)	74.00	\$ 48.00	\$ 3,552.00	\$ 5,896.32	\$ -	\$ 5,896.32	
							\$ 54,009.76	\$ 19,802.00	\$ 73,811.76	24
NOTE:										
Saw cut is done with a floor saw, costs are included in material using RSMMeans2001										
<b>TOTALS</b>							\$ 136,000.48	\$ 43,525.00	\$ 179,525.48	115.25

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2133</b>	<b>Activity Description: Demolition Sequence #4, Excavate, Cut and Remove Subcells</b>
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Wraps
<b>Subcell Removal</b>										
Diamond Wire Cutting *	linear feet	1686	Contract					\$ -	\$ -	
Layout and Drill Anchors	ea	1280	Laborer (Unskilled)	261.00	\$ 48.00	\$ 12,528.00	\$ 20,796.48	\$ 336.00	\$ 21,132.48	
Expansion Anchors	ea	1280	Laborer (Unskilled)	85.00	\$ 48.00	\$ 4,080.00	\$ 6,772.80	\$ 8,704.00	\$ 15,476.80	
Lift and Package Sections	ea	320	Laborer (Unskilled)	320.00	\$ 48.00	\$ 15,360.00	\$ 25,497.60	\$ -	\$ 25,497.60	
Excavate Area (Soil)	lot	1	Laborer (Skilled)	163.00	\$ 68.00	\$ 11,084.00	\$ 18,399.44	\$ -	\$ 18,399.44	
Excavate Area (Soil)	lot	1	Laborer (Unskilled)	327.00	\$ 48.00	\$ 15,696.00	\$ 26,055.36	\$ -	\$ 26,055.36	
							<b>\$ 97,521.68</b>	<b>\$ 9,040.00</b>	<b>\$ 106,561.68</b>	<b>320</b>

**Notes:**

Waste Volume=Not Calculated  
 Waste Weight =Not Calculated  
 320 lifts  
 Subcell density 300 #/ft3  
 Maximum Piece Size 10,000 #  
 Pieces wrapped and shipped on flatbed, no waste containers

\* See Sheet 2500

**For information only**

Waste Volume (Soil) 803 yd3  
 Waste Weight (Soil) 1,301 tons  
 Number of B-25 boxes 296

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2134</b>	<b>Activity Description: Demolition Sequence #5, Cut Up Dry Storage Area</b>
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Wraps
<b>Cut Up Dry Storage Area</b>										
Diamond Wire Cutting *	linear feet	191	Contract					\$ -	\$ -	
Layout and Drill Anchors	ea	192	Laborer (Unskilled)	39.00	\$ 48.00	\$ 1,872.00	\$ 3,107.52	\$ 50.00	\$ 3,157.52	
Expansion Anchors	ea	192	Laborer (Unskilled)	13.00	\$ 48.00	\$ 624.00	\$ 1,035.84	\$ 1,306.00	\$ 2,341.84	
Lift and Package Sections	ea	48	Laborer (Unskilled)	48.00	\$ 48.00	\$ 2,304.00	\$ 3,824.64	\$ -	\$ 3,824.64	
						<b>Totals</b>	<b>\$ 7,968.00</b>	<b>\$ 1,356.00</b>	<b>\$ 9,324.00</b>	<b>48</b>

**Notes:**

Waste Volume=Not Calculated  
 Waste Weight=Not Calculated  
 48 pieces wrapped and shipped on flatbed truck  
 \* See sheet 2500



**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2136	Activity Description: Demolition Sequence #14, Separate Roof Areas									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total Adjusted	# of Sealands
<b>Separate Roof Areas</b>										
Separate Roof Areas*	ea	1	Laborer (Skilled)	46.00	\$	68.00	\$ 3,128.00	\$ 5,192.48	\$ -	\$ 5,192.48
Separate Roof Areas*	ea	1	Laborer (Unskilled)	110.00	\$	48.00	\$ 5,280.00	\$ 8,764.80	\$ -	\$ 8,764.80
<b>Totals</b>							<b>\$ 13,957.28</b>	<b>\$ -</b>	<b>\$ 13,957.28</b>	<b>4</b>

Notes:

Waste Volume=3,300ft<sup>3</sup>

Waste Weight=Not calculated

\* Use Trackmounted Shear, See Sheet 2500

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2137</b>	<b>Activity Description: Demolition Sequence #15, Remove Low Roof</b>
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Sealands
<b>Remove Low Roof</b>										
Rig and Remove Planks <sup>(1)</sup>	ea	1	Laborer (Skilled)	35.00	\$ 68.00	\$ 2,380.00	\$ 3,950.80	\$ 200.00	\$ 4,150.80	
Rig and Remove Planks	ea	1	Laborer (Unskilled)	70.00	\$ 48.00	\$ 3,360.00	\$ 5,577.60	\$ -	\$ 5,577.60	
Demo Roof Walls <sup>(2)</sup>	ea	1	Laborer (Skilled)	11.00	\$ 68.00	\$ 748.00	\$ 1,241.68	\$ -	\$ 1,241.68	
Demo Roof Walls	ea	1	Laborer (Unskilled)	40.00	\$ 48.00	\$ 1,920.00	\$ 3,187.20	\$ -	\$ 3,187.20	
							<b>\$ 13,957.28</b>	<b>\$ 200.00</b>	<b>\$ 14,157.28</b>	

4

**Notes:**

Description	Waste Volume (ft3)
Planks	1,100
Walls	1,900
Steel	<u>300</u>
<b>Total</b>	<b>3,300</b>

<sup>(1)</sup>Rig and remove planks using crane (See sheet 2500)

<sup>(2)</sup>Roof/walls demolished using shear/bucket

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2138		Activity Description: Demolition Sequence #16, Remove Equipment Roof (Area A)										
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Volume FT3	Total Volume FT3	Weight per Unit	Total Weight Pounds
<b>Remove Roof Equipment*</b>												
Condenser Unit	1	ea	4.86	\$ 48.00	9.74	\$ 68.00	\$ 895.60	\$ 895.60	300	300	2000	2000
Packaged Chiller	1	ea	7.30	\$ 48.00	7.30	\$ 68.00	\$ 846.80	\$ 846.80	90	90	1000	1000
Exhaust Fan	13	ea	8.90	\$ 48.00	8.90	\$ 68.00	\$ 13,421.20	\$ 13,421.20	27	351	200	2600
Exhaust Duct (12" diam)	156	LF	0.05	\$ 48.00	0.00	\$ 68.00	\$ 396.86	\$ 396.86	0.8	124.8	0	0
Exhaust Duct (2'x2')	10	LF	0.07	\$ 48.00	0.00	\$ 68.00	\$ 35.04	\$ 35.04	4	40	0	0
Boiler Flue (12" diam)	3	LF	0.44	\$ 48.00	0.00	\$ 68.00	\$ 63.36	\$ 63.36	0.8	2.4	0	0
Water Heater Flue (6" diam)	3	LF	0.44	\$ 48.00	0.00	\$ 68.00	\$ 63.36	\$ 63.36	0.4	1.2	0	0
Roof Vent	1	ea	8.90	\$ 48.00	8.90	\$ 68.00	\$ 1,032.40	\$ 1,032.40	60	60	200	200
Pipe Removal	20	LF	0.16	\$ 48.00	0.16	\$ 68.00	\$ 371.20	\$ 371.20	0.4	8	0	0
Crane Operations Support	1	lot	16.00	\$ 48.00	8.00	\$ 68.00	\$ 1,312.00	\$ 1,312.00	0	0	0	0
<b>TOTAL</b>								<b>18,437.82</b>		<b>977.4</b>		<b>5800</b>
											<b>Number of Sealands</b>	<b>1</b>

Notes:

- \*Removals done with standard cutting torch, saws, and cutters (Sheet 2500, Small tool allowance)
- \*Lifting done with High-Reach Crane (Sheet 2500)

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2139	Activity Description: Demolition Sequence #17, Strip Roofing									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Strip Roofing</b>										
Remove Roofing	ea	1	Laborer (Unskilled)	420.00	\$ 48.00	\$ 20,160.00	\$ 33,465.60	\$ -	\$ 33,465.60	
						<b>Totals</b>	\$ 33,465.60	\$ -	\$ 33,465.60	20

Notes:

- Waste Volume=Not Calculated
- Waste Weight=Not Calculated
- Hand removal used to remove roofing material

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2140	Activity Description: Demolition Sequence #18, Remove Exterior Walls									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Remove Exterior Walls*</b>										
Demolition	ea	1	Laborer (Skilled)	12.00	\$ 68.00	\$ 816.00	\$ 1,354.56	\$ -	\$ 1,354.56	
Demolition	ea	1	Laborer (Unskilled)	12.00	\$ 48.00	\$ 576.00	\$ 956.16	\$ -	\$ 956.16	
							\$ 2,310.72	\$ -	\$ 2,310.72	64

Notes:

- Waste Volume=4,500 ft3
- Waste Weight=Not Calculated
- \*Walls demolished using shear/bucket

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2141	Activity Description: Demolition Sequence #19, Remove Pre-Cast Roof Panels									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Sealands
<b>Remove Roof Panels*</b>										
Rig and Remove Planks (340)	ea	1	Laborer (Skilled)	57.00	\$ 68.00	\$ 3,876.00	\$ 6,434.16	\$ 325.00	\$ 6,759.16	
Rig and Remove Planks (340)	ea	1	Laborer (Unskilled)	114.00	\$ 48.00	\$ 5,472.00	\$ 9,083.52	\$ -	\$ 9,083.52	
Remove Purlins	ea	1	Laborer (Skilled)	20.00	\$ 68.00	\$ 1,360.00	\$ 2,257.60	\$ -	\$ 2,257.60	
Remove Purlins	ea	1	Laborer (Unskilled)	40.00	\$ 48.00	\$ 1,920.00	\$ 3,187.20	\$ -	\$ 3,187.20	
							<b>\$ 20,962.48</b>	<b>\$ 325.00</b>	<b>\$ 21,287.48</b>	<b>0.5</b>

**Notes:**

Waste Volume=2,201 ft3

Waste Weight=Not Calculated

\*Planks and panels removed with crane(See Sheet 2500)

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2142</b>	<b>Activity Description: Demolition Sequence #20, Remove Roof Trusses</b>
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total Adjusted	# of Sealands
<b>Remove Trusses</b>										
Rig Trusses	ea	1	Laborer (Skilled)	6.00	\$ 68.00	\$ 408.00	\$ 677.28	\$ 500.00	\$ 1,177.28	
Rig Trusses	ea	1	Laborer (Unskilled)	24.00	\$ 48.00	\$ 1,152.00	\$ 1,912.32	\$ -	\$ 1,912.32	
Size Reduce and Box	ea	1	Laborer (Skilled)	3.00	\$ 68.00	\$ 204.00	\$ 338.64	\$ -	\$ 338.64	
Size Reduce and Box	ea	1	Laborer (Unskilled)	6.00	\$ 48.00	\$ 288.00	\$ 478.08	\$ -	\$ 478.08	
							<b>\$ 3,406.32</b>	<b>\$ 500.00</b>	<b>\$ 3,906.32</b>	<b>0.5</b>

**Notes:**

Waste Volume=333 ft3  
 Waste Weight-Not Calculated  
 Shear used to size reduce trusses

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2143	Activity Description: Demolition Sequence #21, Remove Remaining Above Grade									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Remove Above Grade<sup>(1)</sup></b>										
Demolish Walls	ea	1	Laborer (Skilled)	8.00	\$ 68.00	\$ 544.00	\$ 903.04	\$ -	\$ 903.04	
Demolish Walls	ea	1	Laborer (Unskilled)	24.00	\$ 48.00	\$ 1,152.00	\$ 1,912.32	\$ -	\$ 1,912.32	
Load Box and Seal <sup>(2)</sup>	ea	56	Laborer (Skilled)	28.00	\$ 68.00	\$ 1,904.00	\$ 3,160.64	\$ -	\$ 3,160.64	
							<b>\$ 5,976.00</b>	<b>\$ -</b>	<b>\$ 5,976.00</b>	<b>56</b>

Notes:

Waste Volume=4,000 ft<sup>3</sup>

Waste Weight=288,000#

<sup>(1)</sup>Bucket used to demolish walls

<sup>(2)</sup>Time to load and seal box was estimated at 0.5 hours per box

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2144		Activity Description: Demolition Sequence #31, Remove Alpha/Gamma Cells								
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Slabs</b>										
Saw cut slab	linear feet	546	Laborer (Skilled)	28.00	\$ 68.00	\$ 1,904.00	\$ 3,160.64	\$ 2,064.00	\$ 5,224.64	
Layout and drill anchors	ea	224	Laborer (Unskilled)	46.00	\$ 48.00	\$ 2,208.00	\$ 3,665.28	\$ 59.00	\$ 3,724.28	
Expansion Anchors	ea	224	Laborer (Unskilled)	15.00	\$ 48.00	\$ 720.00	\$ 1,195.20	\$ 1,523.00	\$ 2,718.20	
Lift and Package Sections	ea	56	Laborer (Unskilled)	56.00	\$ 48.00	\$ 2,688.00	\$ 4,462.08	\$ -	\$ 4,462.08	
							<b>\$ 12,483.20</b>	<b>\$ 3,646.00</b>	<b>\$ 16,129.20</b>	14
<b>Beams</b>										
Saw cut beams	linear feet	100	Laborer (Skilled)	98.00	\$ 68.00	\$ 6,664.00	\$ 11,062.24	\$ 4,620.00	\$ 15,682.24	
Layout and drill anchors	ea	64	Laborer (Unskilled)	13.00	\$ 48.00	\$ 624.00	\$ 1,035.84	\$ 17.00	\$ 1,052.84	
Expansion Anchors	ea	64	Laborer (Unskilled)	5.00	\$ 48.00	\$ 240.00	\$ 398.40	\$ 435.00	\$ 833.40	
Lift and Package Sections	ea	16	Laborer (Unskilled)	32.00	\$ 48.00	\$ 1,536.00	\$ 2,549.76	\$ -	\$ 2,549.76	
							<b>\$ 15,046.24</b>	<b>\$ 5,072.00</b>	<b>\$ 20,118.24</b>	16
<b>Cells</b>										
Dismantle Cells*	lot	1	Laborer (Skilled)	8.00	\$ 68.00	\$ 544.00	\$ 903.04	\$ 280.00	\$ 1,183.04	
Dismantle Cells	lot	1	Laborer (Unskilled)	40.00	\$ 48.00	\$ 1,920.00	\$ 3,187.20	\$ 13.00	\$ 3,200.20	
Lift and Package Cells	lot	1	Laborer (Unskilled)	2.50	\$ 48.00	\$ 120.00	\$ 199.20	\$ 128.00	\$ 327.20	
Lift and Package Cells	lot	1	Laborer (Unskilled)	2.50	\$ 48.00	\$ 120.00	\$ 199.20	\$ -	\$ 199.20	
							<b>\$ 4,488.64</b>	<b>\$ 421.00</b>	<b>\$ 4,909.64</b>	5
*Shear used to demolish cells										
<b>TOTALS</b>							<b>\$ 32,018.08</b>	<b>\$ 9,139.00</b>	<b>\$ 41,157.08</b>	<b>35.00</b>

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2145	Activity Description: Demolition Sequence #32, Excavate and Cut Footers									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Excavate and Cut Footers<sup>(1)</sup></b>										
Excavation	ea	1	Laborer (Skilled)	340.00	\$ 68.00	\$ 23,120.00	\$ 38,379.20	\$ -	\$ 38,379.20	0
Excavation	ea	1	Laborer (Unskilled)	170.00	\$ 48.00	\$ 8,160.00	\$ 13,545.60	\$ -	\$ 13,545.60	0
Demo Foundations (Shear)	ea	1	Laborer (Skilled)	152.00	\$ 68.00	\$ 10,336.00	\$ 17,157.76	\$ -	\$ 17,157.76	50
Load and Seal Boxes <sup>(2)</sup>	lot	1	Laborer (Unskilled)	25.00	\$ 48.00	\$ 1,200.00	\$ 1,992.00	\$ -	\$ 1,992.00	0
							<b>\$ 71,074.56</b>	<b>\$ -</b>	<b>\$ 71,074.56</b>	<b>50</b>

Notes:

Waste Volume Foundations-Not Calculated

<sup>(1)</sup>Demolition performed using a shear

<sup>(2)</sup>Labor to load and seal box is 0.5 hours per box

Information only

Soil Volume=199,742 ft<sup>3</sup>

2,724 B-25 boxes

Cost for loading soil into B-25 not included

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2210</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area B)</b>
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	Qty.	Units	Hours	Mhrs. Total	Hourly Rate	Labor Total	Labor Adjusted	Mat. Total	Vol./Unit ft3	Total Vol. Ft3
<b>Electrical Removals</b>										
Flourescent Lights	0	ea.	0.49	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Mercury Vapor Lights	63	ea.	1.33	83.98	\$ 54.67	\$ 4,591.13	\$ 7,621.28	\$ -	8.00	504.00
Panelboards	8	ea.	6.15	49.23	\$ 54.67	\$ 2,691.51	\$ 4,467.91	\$ -	3.33	26.64
Transformers	3	ea.	5.33	16.00	\$ 54.67	\$ 874.67	\$ 1,451.94	\$ -	3.00	9.00
Junction Boxes	0	ea.	0.65	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Bus Duct	70	LF	0.27	18.69	\$ 54.67	\$ 1,021.78	\$ 1,696.16	\$ -	0.25	17.50
Disconnect Switches	17	ea.	0.91	15.45	\$ 54.67	\$ 844.82	\$ 1,402.39	\$ -	0.50	8.50
Devices	98	ea.	0.08	7.35	\$ 54.67	\$ 401.82	\$ 667.03	\$ -	0.02	1.47
Conduit & Wire	1	hr	57.00	57.00	\$ 54.67	\$ 3,116.19	\$ 5,172.88	\$ -		22.30
Wireway	100	LF	0.11	11.09	\$ 54.67	\$ 606.29	\$ 1,006.44	\$ -	0.00	0.00
				<b>258.79</b>			<b>\$ 23,486.03</b>	<b>\$ -</b>		<b>589.41</b>

**Number of Sealands**

**1**

\*Standard cutters and saws used for demolition

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2220		Activity Description: Remove Mechanical Equipment - Interior (Area B)							
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of Sealands
<b>Equipment Removals</b>									
CW Pump	1	ea	0.89	\$ 48.00	0.89	\$ 68.00	\$ 103.24	\$ 171.38	
Pipe Removal	1	lot	52.50	\$ 48.00	115.40	\$ 68.00	\$ 10,367.20	\$ 17,209.55	
							<b>TOTAL</b>	<b>17,380.93</b>	<b>1</b>

Notes:

Total volume=652 ft3, 1 Sealand because of piping  
 Total weight=500 #

Description	Linear Feet
Piping to 1 1/2"	0
Piping-2" to 3 1/2"	0
Piping-4" to 6"	0
Elevated-1 1/2"	450
Elevated-2" to 3 1/2"	550
Elevated-4" to 6"	500

\*Cutting torch used to remove pipes, pump removed with standard tools

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2231	Activity Description: Demolition Sequence #2, Remove Mezzanine Stairs									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Remove Stairs*</b>										
Remove Stairs	ea	1	Laborer (Skilled)	2.00	\$ 68.00	\$ 136.00	\$ 225.76	\$ -	\$ 225.76	
Remove Stairs	ea	1	Laborer (Unskilled)	4.00	\$ 48.00	\$ 192.00	\$ 318.72	\$ -	\$ 318.72	
							<b>\$ 544.48</b>	<b>\$ -</b>	<b>\$ 544.48</b>	<b>3</b>

Notes:

- Waste Volume=Not Calculated
- Waste Weight=Not Calculated
- \*Stairs demolished using the shear

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2232	Activity Description: Demolition Sequence #6, Remove Mezzanine									
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Remove Mezzanine*</b>										
Remove Mezzanine	ea	1	Laborer (Skilled)	8.00	\$ 68.00	\$ 544.00	\$ 903.04	\$ -	\$ 903.04	
Remove Mezzanine	ea	1	Laborer (Unskilled)	6.00	\$ 48.00	\$ 288.00	\$ 478.08	\$ -	\$ 478.08	
							<b>\$ 1,381.12</b>	<b>\$ -</b>	<b>\$ 1,381.12</b>	<b>10</b>

Notes:

- Waste Volume=485 ft3
- Waste Weight-Not Calculated
- \*Mezzanine concrete/steel demolished using bucket and shear

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2233	Activity Description: Demolition Sequence #7, Remove Slab To Grade									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Remove Slab</b>										
Saw Cut Slab	LF	3160	Laborer (Skilled)	161.00	\$ 68.00	\$ 10,948.00	\$ 18,173.68	\$ 11,945.00	\$ 30,118.68	
Layout and Drill	ea	2100	Laborer (Unskilled)	429.00	\$ 48.00	\$ 20,592.00	\$ 34,182.72	\$ 551.00	\$ 34,733.72	
Expansion Anchors	ea	2100	Laborer (Unskilled)	140.00	\$ 48.00	\$ 6,720.00	\$ 11,155.20	\$ 14,280.00	\$ 25,435.20	
Lift and Package	ea	525	Laborer (Unskilled)	525.00	\$ 48.00	\$ 25,200.00	<u>\$ 41,832.00</u>	<u>\$ -</u>	<u>\$ 41,832.00</u>	
							<b>\$ 105,343.60</b>	<b>\$ 26,776.00</b>	<b>\$ 132,119.60</b>	<b>132</b>

Waste Volume=Not Calculated  
Waste Weight=Not Calculated

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2234</b>	<b>Activity Description: Demolition Sequence #8, Cut Pool and Hot Cell to -14'</b>									
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	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Wraps
<b>Cell Wall</b>										
Diamond Wire Cutting*	linear feet	760	Contract							
Drill Lifting Holes	ea	1	Laborer (Skilled)	1000.00	\$ 68.00	\$ 68,000.00	\$ 112,880.00	\$ 19,425.00	\$ 132,305.00	
Wrap and Load Sections (100)	ea	1	Laborer (Unskilled)	200.00	\$ 48.00	\$ 9,600.00	\$ 15,936.00	\$ -	\$ 15,936.00	
							<b>\$ 128,816.00</b>	<b>\$ 19,425.00</b>	<b>\$ 148,241.00</b>	100
<b>Pool</b>										
Diamond Wire Cutting*	linear feet	464	Contract							
Drill Lifting Holes	ea	1	Laborer (Skilled)	160.00	\$ 68.00	\$ 10,880.00	\$ 18,060.80	\$ 3,724.00	\$ 21,784.80	
Wrap and Load Sections (32)	ea	1	Laborer (Unskilled)	64.00	\$ 48.00	\$ 3,072.00	\$ 5,099.52	\$ -	\$ 5,099.52	
Scaffolding	ea	1	Laborer (Unskilled)	90.00	\$ 48.00	\$ 4,320.00	\$ 7,171.20	\$ 1,000.00	\$ 8,171.20	
							<b>\$ 30,331.52</b>	<b>\$ 4,724.00</b>	<b>\$ 35,055.52</b>	32

**Notes:**

Waste Volume=Not Calculated  
Waste Weight=Less than 20,000 pounds  
Two lifting holes per piece  
100 pieces for cell wall  
32 pieces for pool  
Pieces wrapped and shipped on flatbed, no waste containers

\* See Sheet 2500

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2235	Activity Description: Demolition Sequence #23, Remove Equipment - Roof												
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Volume FT3	Total Volume FT3	Weight per Unit	Total Weight	
<b>Remove Roof Equipment</b>													
Packaged Chiller	2	ea	7.30	\$ 48.00	7.30	\$ 68.00	\$ 1,693.60	\$ 1,693.60	504	1008	4000	8000	
CW Pump	1	ea	8.90	\$ 48.00	8.90	\$ 68.00	\$ 1,032.40	\$ 1,032.40	90	90	200	200	
Flue Stack	5	LF	0.44	\$ 48.00	0.00	\$ 68.00	\$ 105.60	\$ 105.60	27	135	0	0	
Pipe Removal	60	LF	0.16	\$ 48.00	0.16	\$ 68.00	\$ 1,113.60	\$ 1,113.60	0.4	24	0	0	
Crane Operations Support	1	lot	24.00	\$ 48.00	8.00	\$ 68.00	\$ 1,696.00	\$ 1,696.00	0	0	0	0	
Demolition of substation <sup>(1)(2)(3)</sup>	1	lot	0.00	\$ 48.00	80.00	\$ 68.00	\$ 5,440.00	\$ 5,440.00					
			<b>40.80</b>		<b>104.36</b>		<b>TOTAL</b>	<b>\$ 11,081.20</b>		<b>1257</b>		<b>8200</b>	
										<b>Number of Sealands</b>		<b>2</b>	

Notes:

- Removals done with standard cutting torch, saws, and cutters (Sheet 2500, Small tool allowance)
- Lifting done with High-Reach Crane (Sheet 2500)
- <sup>(1)</sup> 480 VAC substation on ground at North end of JN-1, remove poles, wire, conduit, substation
- <sup>(2)</sup> Crane and manlift covered on Sheet 2500
- <sup>(3)</sup> Substation to be reused

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2236	Activity Description: Demolition Sequence #24, Remove Panel Walls									
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of Sealands
<b>Remove Wall Panels*</b>										
Remove Panels	ea	570	Laborer (Skilled)	190.00	\$ 68.00	\$ 12,920.00	\$ 21,447.20	\$ 700.00	\$ 22,147.20	
Remove Panels	ea	570	Laborer (Unskilled)	380.00	\$ 48.00	\$ 18,240.00	\$ 30,278.40	\$ -	\$ 30,278.40	
				<b>570.00</b>			<b>\$ 51,725.60</b>	<b>\$ 700.00</b>	<b>\$ 52,425.60</b>	<b>5</b>

Notes:

\*Use crane to set and bucket to process (See sheet 2500)  
 3 panels wide by 40 high in Sealand  
 Panels=24"x17' typical  
 Weight per Sealand is 12,240#

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2237		Activity Description: Demolition Sequence #25, Remove Masonry Walls								
	Unit	# of Units	Labor Type	Hours	Hourly Rate	Labor Total	Labor Total Adjusted	Material Total	Total	# of B-25's
<b>Demolish Walls*</b>										
Demo walls	ea	1	Laborer (Skilled)	16.00	\$ 68.00	\$ 1,088.00	\$ 1,806.08	\$ -	\$ 1,806.08	
Load and seal B-25	ea	1	Laborer (Unskilled)	<u>27.00</u>	\$ 48.00	\$ 1,296.00	\$ 2,151.36	\$ -	\$ 2,151.36	
				<b>43.00</b>			<b>\$ 3,957.44</b>	<b>\$ -</b>	<b>\$ 3,957.44</b>	<b>54</b>

**Notes:**

Walls demolished using the ram or shear  
Waste Volume=3,867 ft<sup>3</sup>  
Waste Weight=232,000 #

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2238		Activity Description: Demolition Sequence #26, Remove Roof Deck and Purlins									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of B-25's		
<b>Remove Roof Deck and Purlins</b>											
	1	lot	343.00	\$ 48.00	0.00	\$ 68.00	\$ 16,464.00	\$ 27,330.24			
	1	lot	99.00	\$ 48.00	33.00	\$ 68.00	\$ 6,996.00	\$ 11,613.36			
	1	lot	36.00	\$ 48.00	18.00	\$ 68.00	\$ 2,952.00	\$ 4,900.32			
	1	lot	8.00	\$ 48.00	8.00	\$ 68.00	\$ 928.00	\$ 1,540.48			
	1	lot	45.00	\$ 48.00	15.00	\$ 68.00	\$ 3,180.00	\$ 5,278.80			
	1	lot	8.00	\$ 48.00	4.00	\$ 68.00	\$ 656.00	\$ 1,088.96			
	1	lot	<u>12.00</u>	\$ 48.00	<u>0.00</u>	\$ 68.00	\$ 576.00	\$ 956.16			
			<b>551.000</b>		<b>78.00</b>		<b>\$ 31,752.00</b>	<b>\$ 51,752.16</b>	<b>23</b>		
								<b>Sealands</b>	<b>1.25</b>		

Notes:

<sup>(1)</sup>Roofing material stripped using hand tools  
 Roofing=1,673 ft3, 45,300 #, 23 B-25's based on volume  
 Steel=1,750 ft3, 24,156 #, 1.25 Sealands for Deck and steel  
 Deck=15,100 #

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2239		Activity Description: Demolition Sequence #27, Remove Roof Beams							
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of Sealands
<b>Remove Roof Beams*</b>									
Rig and Remove Girders	1	lot	24.00	\$ 48.00	8.00	\$ 68.00	\$ 1,696.00	\$ 2,815.36	
Size Reduce Girders	1	lot	8.00	\$ 48.00	4.00	\$ 68.00	\$ 656.00	\$ 1,088.96	
			<b>32.00</b>		<b>12.00</b>		<b>\$ 2,352.00</b>	<b>\$ 3,904.32</b>	<b>0.75</b>

Notes:

\*Girders removed and sized reduced using the shear  
Weight=6039#

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2240</b>		<b>Activity Description: Demolition Sequence #28, Remove Bridge Crane</b>								
	<b>Quantity</b>	<b>Unit</b>	<b>Labor Unskilled Hours</b>	<b>Unskilled Rate</b>	<b>Laborer Skilled Hours</b>	<b>Skilled Rate</b>	<b>Labor Total</b>	<b>Labor Adjusted</b>	<b># Of B-25's</b>	
<b>Remove Bridge Crane</b>										
Remove Bridge Crane	1	lot	0.00	\$ 48.00	<u>80.00</u>	\$ 68.00	\$ 5,440.00	\$ 9,030.40		
					<u>80.00</u>		\$ 5,440.00	\$ 9,030.40	2	
Miscellaneous Supplies	\$ 500.00									

**Notes:**

Crane assumed to be recycled-no packaging time included

BCLDP JN-1 Demolition Project Estimate

**ACTIVITY DATA SHEET**

Activity No. 2241	Activity Description: Demolition Sequence #29, Remove Columns Above 25'								
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of Sealands
<b>Remove Columns*</b>									
Rig and Cut Columns	1	lot	26.00	\$ 48.00	52.00	\$ 68.00	\$ 4,784.00	\$ 7,941.44	
Size Reduce and Load	1	lot	<u>26.00</u>	\$ 48.00	<u>13.00</u>	\$ 68.00	<u>\$ 2,132.00</u>	<u>\$ 3,539.12</u>	
			<b>52.00</b>		<b>65.00</b>		<b>\$ 6,916.00</b>	<b>\$ 11,480.56</b>	<b>1</b>

Notes:

\*Use shear for cutting/size reduction  
 13 columns  
 Volume=722 ft<sup>3</sup>  
 Weight=32,708 pounds

BCLDP JN-1 Demolition Project Estimate

**ACTIVITY DATA SHEET**

Activity No. 2242	Activity Description: Demolition Sequence #30, Remove Remaining Columns								
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of Sealands
<b>Remove Remaining Columns*</b>									
Rig and Cut	1	lot	66.00	\$ 48.00	132.00	\$ 68.00	\$ 12,144.00	\$ 20,159.04	
Size Reduce and Load	1	lot	<u>32.00</u>	\$ 48.00	<u>16.00</u>	\$ 68.00	<u>\$ 2,624.00</u>	<u>\$ 4,355.84</u>	
			<b>98.00</b>		<b>148.00</b>		<b>\$ 14,768.00</b>	<b>\$ 24,514.88</b>	
								<b>Sealands</b>	<b>2</b>

\*31 Columns/Beams demolished using shear

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2243</b>	<b>Activity Description: Demolition Sequence #32, Excavate and Cut Footers</b>
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# Of B-25's
<b>Excavate and Cut Footers</b>									
Excavate Soil	1	lot	70.00	\$ 48.00	70.00	\$ 68.00	\$ 8,120.00	\$ 13,479.20	
Demolish Foundations	1	lot	160.00	\$ 48.00	160.00	\$ 68.00	\$ 18,560.00	\$ 30,809.60	24
Load and Seal B-25 Boxes	1	lot	<u>12.00</u>	\$ 48.00	<u>0.00</u>	\$ 68.00	<u>\$ 576.00</u>	<u>\$ 956.16</u>	
			<b>242.00</b>		<b>230.00</b>		<b>\$ 27,256.00</b>	<b>\$ 45,244.96</b>	<b>24</b>

**Notes:**

Use shear/bucket for demolition and excavation  
Concrete Volume 1,294 ft3

**Information only**

Soil Volume=36,776 ft3  
510 B-25 boxes  
Cost for loading soil into B-25 not included

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2310</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area C)</b>
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	Qty.	Units	Hours	Mhrs. Total	Hourly Rate	Labor Total	Labor Adjusted	Mat. Total	Vol./Unit ft3	Total Vol. Ft3
<b>Electrical Removals*</b>										
Flourescent Lights	41	ea.	0.49	19.89	\$ 54.67	\$ 1,087.11	\$ 1,087.11	\$ -	4.00	164.00
Mercury Vapor Lights	18	ea.	1.33	23.99	\$ 54.67	\$ 1,311.75	\$ 1,311.75	\$ -	8.00	144.00
Panelboards	6	ea.	6.15	36.92	\$ 54.67	\$ 2,018.64	\$ 2,018.64	\$ -	3.33	19.98
Transformers	3	ea.	5.33	16.00	\$ 54.67	\$ 874.67	\$ 874.67	\$ -	3.00	9.00
Junction Boxes	1	ea.	0.65	0.65	\$ 54.67	\$ 35.54	\$ 35.54	\$ -	4.00	4.00
Bus Duct	0	LF	0.27	-	\$ 54.67	\$ -	\$ -	\$ -	0.25	0.00
Disconnect Switches	4	ea.	0.91	3.64	\$ 54.67	\$ 198.78	\$ 198.78	\$ -	0.50	2.00
Devices	45	ea.	0.08	3.38	\$ 54.67	\$ 184.51	\$ 184.51	\$ -	0.02	0.68
Conduit & Wire	1	hr	25.00	25.00	\$ 54.67	\$ 1,366.75	\$ 1,366.75	\$ -		9.90
Wireway	0	LF	-	-	\$ 54.67	\$ -	\$ -	\$ -	0.00	<u>0.00</u>
				<b>129.46</b>			<b>\$ 7,077.74</b>	<b>\$ -</b>		<b>353.56</b>

**Number of 30-YD3 Rolloffs 0.5**

\*Standard cutters and saws used for demolition

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2320</b>	<b>Activity Description: Remove Mechanical Equipment - Interior (Area C)</b>
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted
<b>Equipment Removals</b>								
Pipe Removal*	1	lot	10.50	\$ 48.00	106.15	\$ 68.00	\$7,722.20	\$ 7,722.20
							<b>TOTAL</b>	<b>\$ 7,722.20</b>

Number of 30-YD3 Rolloffs 0.5

Description	Linear Feet
Piping to 1 1/2"	400
Piping-2" to 3 1/2"	150
Piping-4" to 6"	0
Elevated-1 1/2"	750
Elevated-2" to 3 1/2"	450
Elevated-4" to 6"	100

\*Cutting torch used to remove pipes

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2331		Activity Description: Demolition Sequence #10, Remove Equipment Exterior										
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Volume FT3	Total Volume FT3	Weight per Unit	Total Weight
<b>Remove Roof Equipment</b>												
Exhaust Fan	2	ea	8.90	\$ 48.00	8.90	\$ 68.00	\$ 2,064.80	\$ 2,064.80	9	18	200	400
Roof Vent	2	ea	8.90	\$ 48.00	8.90	\$ 68.00	\$ 2,064.80	\$ 2,064.80	60	120	200	400
Exhaust Duct (12" diam)	24	LF	0.05	\$ 48.00	0.00	\$ 68.00	\$ 61.06	\$ 61.06	0.785	18.84	0	0
Exhaust Duct (2'x2')	20	LF	0.07	\$ 48.00	0.00	\$ 68.00	\$ 70.08	\$ 70.08	4	80	0	0
Crane Operations Support	1	lot	8.00	\$ 48.00	4.00	\$ 68.00	\$ 656.00	\$ 656.00	0	0	0	0
			<b>25.93</b>		<b>21.80</b>		<b>TOTAL</b>	<b>\$ 4,916.74</b>		<b>236.84</b>		<b>800</b>
											<b>Number of 30-YD3 rolloffs</b>	<b>0.3</b>

Notes:

Removals done with standard cutting torch, saws, and cutters (Sheet 2500, Small tool allowance)  
 Lifting done with High-Reach Crane (Sheet 2500)

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2332</b>	<b>Activity Description: Demolition Sequence #11, Create Separation</b>								
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# 30 YD3 Rolloffs
<b>Create Separation</b>									
Create Separation	1	lot	<u>16.00</u>	\$ 48.00	<u>4.00</u>	\$ 68.00	\$ 1,040.00	\$ 1,040.00	
			<b>16.00</b>		<b>4.00</b>		<b>\$ 1,040.00</b>	<b>\$ 1,040.00</b>	

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Notes:  
 Demolition performed using a shear  
 Walls=1,073 ft3  
 Steel=201 ft3  
 Roof=1,495 ft3

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2333	Activity Description: Demolition Sequence #12, Remove Above Grade Structure								
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of 30 Yd3 Rolloffs
Remove Above Grade Structure Strip Roofing	1	lot	<u>32.00</u> 32.00	\$ 48.00	<u>8.00</u> 8.00	\$ 68.00	<u>\$ 2,080.00</u> \$ 2,080.00	<u>\$ 2,080.00</u> \$ 2,080.00	

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Notes:  
 Steel Roof=160 YD3  
 Shear/bucket used for demolition

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2334	Activity Description: Demolition Sequence #13, Remove Slab to Grade									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# Of B-25's	
<b>Remove Slab to Grade</b> Demolish Slab	1	lot	<u>102.00</u> <b>102.00</b>	\$ 48.00	<u>0.00</u> <b>0.00</b>	\$ 68.00	<u>\$ 4,896.00</u> <b>\$ 4,896.00</b>	<u>\$ 4,896.00</u> <b>\$ 4,896.00</b>	0	

Notes:  
 Volume=60 yd3, placed in pool as fill  
 Shear/ram used for demolition

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2335	Activity Description: Demolition Sequence #32, Excavate and Cut Footers										
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# Of B-25's		
<b>Excavate and Cut Footers</b>											
Strip Footings	1	lot	60.00	\$ 48.00	0.00	\$ 68.00	\$ 2,880.00	\$ 2,880.00			
Spread Footings	1	lot	9.00	\$ 48.00	33.00	\$ 68.00	\$ 2,676.00	\$ 2,676.00			
Load and Seal B-25 boxes	1	lot	<u>12.00</u>	\$ 48.00	<u>0.00</u>	\$ 68.00	<u>\$ 576.00</u>	<u>\$ 576.00</u>			
			<b>81.00</b>		<b>33.00</b>		<b>\$ 6,132.00</b>	<b>\$ 6,132.00</b>	<b>25</b>		

Notes:

Shear/ram used for demolition

Information only

Soil Volume=14,103 ft3

196 B-25 boxes

Cost for loading soil into B-25 not included

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2410</b>	<b>Activity Description: Remove Electrical Equipment - Interior (Area D)</b>
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	Qty.	Units	Hours	Mhrs. Total	Hourly Rate	Labor Total	Labor Adjusted	Mat. Total	Vol./Unit ft3	Total Vol. Ft3
<b>Electrical Removals</b>										
Flourescent Lights	0	ea.	0.49	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Mercury Vapor Lights	0	ea.	1.33	-	\$ 54.67	\$ -	\$ -	\$ -	8.00	0.00
Panelboards	0	ea.	6.15	-	\$ 54.67	\$ -	\$ -	\$ -	3.33	0.00
Transformers	0	ea.	5.33	-	\$ 54.67	\$ -	\$ -	\$ -	3.00	0.00
Junction Boxes	0	ea.	0.65	-	\$ 54.67	\$ -	\$ -	\$ -	4.00	0.00
Bus Duct	0	LF	0.27	-	\$ 54.67	\$ -	\$ -	\$ -	0.25	0.00
Disconnect Switches	0	ea.	0.91	-	\$ 54.67	\$ -	\$ -	\$ -	0.50	0.00
Devices	0	ea.	0.08	-	\$ 54.67	\$ -	\$ -	\$ -	0.02	0.00
Conduit & Wire	0	hr	75.00	-	\$ 54.67	\$ -	\$ -	\$ -		0.00
Wireway	0	LF	-	-	\$ 54.67	\$ -	\$ -	\$ -	0.00	<u>0.00</u>
				-		\$ -	\$ -	\$ -		<b>0.00</b>

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2420</b>	<b>Activity Description: Remove Mechanical Equipment - Interior (Area D)</b>							
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted
<b>Equipment Removals</b>								
No removals	-	lot	-		0		TOTAL	\$ -

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 2431</b>	<b>Activity Description: Demolition Sequence #22, Demolish Storage Building</b>
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# of Sealands
<b>Demolish Storage Building</b>									
Demolish Building	1	lot	<u>108.00</u>	\$ 48.00	<u>0.00</u>	\$ 68.00	\$ 5,184.00	\$ 8,605.44	
			<b>108.00</b>		<b>0.00</b>		<b>\$ 5,184.00</b>	<b>\$ 8,605.44</b>	

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**Notes:**

**Material=3,600 ft3  
Use shear for demolition**

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 2432	Activity Description: Demolition Sequence #32, Excavate and Cut Footers									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	# Of B-25's	
<b>Excavate and Cut Footers</b>										
Excavate and Cut Footers	1	lot	40.00	\$ 48.00	0.00	\$ 68.00	\$ 1,920.00	\$ 3,187.20		
Load and Seal B-25 boxes	1	lot	<u>65.00</u>	\$ 48.00	<u>0.00</u>	\$ 68.00	\$ 3,120.00	\$ 5,179.20		
			<b>105.00</b>		<b>0.00</b>		\$ <b>5,040.00</b>	\$ <b>8,366.40</b>	<b>130</b>	

**Notes:**

Volume=7,755 ft3

Use shear for demolition

BCLDP JN-1 Demolition Project Estimate

ACTIVITY DATA SHEET

Activity No. 2500	Activity Description: Demolition Materials and Equipment
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	# of Items	# of Units	Unit	Unit Cost	Total Labor	Total Material	Total
<b>Equipment</b>							
High Reach Crane	1	2	week	\$ 4,150.00	\$ -	\$ 8,300.00	\$ 8,300.00
Truck Mounted Crane	1	4	month	\$ 4,450.00	\$ -	\$ 17,800.00	\$ 17,800.00
Portable Gantry Crane <sup>(1)</sup>	1	1	ea	\$ 28,370.00	\$ -	\$ 28,370.00	\$ 28,370.00
15' Scissor Lift	1	3	month	\$ 750.00	\$ -	\$ 2,250.00	\$ 2,250.00
25' Scissor Lift	1	3	month	\$ 1,150.00	\$ -	\$ 3,450.00	\$ 3,450.00
60' Scissor Lift <sup>(1)</sup>	1	2	month	\$ 3,650.00	\$ -	\$ 7,300.00	\$ 7,300.00
Diamond Wire Saw <sup>(2)</sup>	1	1	lot	\$ 875,000.00	\$ -	\$ 875,000.00	\$ 875,000.00
Diamond Wire Saw Support Crew <sup>(4)</sup>	1	1	lot		\$ 446,400.00		\$ 449,280.00
Track Hoe	1	6	month	\$ 9,600.00	\$ -	\$ 57,600.00	\$ 57,600.00
Track Hoe Shear	1	3	month	\$ 2,500.00	\$ -	\$ 7,500.00	\$ 7,500.00
Dozer	1	3	month	\$ 4,300.00	\$ -	\$ 12,900.00	\$ 12,900.00
Bobcat	2	6	month	\$ 2,700.00	\$ -	\$ 32,400.00	\$ 32,400.00
Jackhammers (85-90#)	3	9	month	\$ 400.00	\$ -	\$ 10,800.00	\$ 10,800.00
Masonry Saws <sup>(5)</sup>					\$ -	\$ -	\$ -
Compressor	1	9	month	\$ 2,400.00	\$ -	\$ 21,600.00	\$ 21,600.00
HEPA Vacuum, filter	1	2	ea	\$ 3,000.00	\$ -	\$ 6,000.00	\$ 6,000.00
			<b>TOTAL</b>		\$ 446,400.00	\$ 1,091,270.00	\$ 1,540,550.00
<b>Materials</b>							
Waste Packaging Materials	1	1	lot	\$ 15,140.00	\$ -	\$ 15,140.00	\$ 15,140.00
Small Tool Allow. (10% of dir. labor)	1	1	lot	\$ 173,297.98	\$ -	\$ 173,297.98	\$ 173,297.98
			<b>TOTAL</b>		\$ -	\$ 188,437.98	\$ 188,437.98
<b>Clean Area Protective Covers</b>							
Scaffolding <sup>(3)</sup>	1	9	month	\$ 1,436.00	\$ -	\$ 12,924.00	\$ 12,924.00
Planks	1	9	month	\$ 200.00	\$ -	\$ 1,800.00	\$ 1,800.00
Plastic (6 mil), tape	1	1	lot	\$ 1,200.00	\$ -	\$ 1,300.00	\$ 1,300.00
Labor for installation and removal	1	168	hours	\$ 48.00	\$ 13,386.24	\$ -	\$ 13,386.24
			<b>TOTAL</b>		\$ 13,386.24	\$ 16,024.00	\$ 29,410.24
<b>Containments</b>							
20'x20'x20' pre-fabricated	1	4	ea	\$ 10,000.00	\$ -	\$ 40,000.00	\$ 40,000.00
10'x20'x20' pre-fabricated	1	2	ea	\$ 7,000.00	\$ -	\$ 14,000.00	\$ 14,000.00
HEPA Ventilation Units	1	6	ea	\$ 5,273.00	\$ -	\$ 31,638.00	\$ 31,638.00
Foreman labor(assembly/disassembly)	1	150	hours	\$ 75.00	\$ 18,675.00	\$ -	\$ 18,675.00
Unskilled labor(assembly/disassembly)	1	450	hours	\$ 48.00	\$ 35,856.00	\$ -	\$ 35,856.00
			<b>TOTAL</b>		\$ 54,531.00	\$ 85,638.00	\$ 140,169.00

NOTES:

- <sup>(1)</sup> Reference McMaster-Carr Catalogue
  - <sup>(2)</sup> Diamond Wire Saw preliminary information from Cutting Edge, includes crew to run saw, wire, core drilling and water collection
  - <sup>(3)</sup> Scaffolding and planks will be used to construct protective covers
  - <sup>(4)</sup> Diamond Wire Crew Support= 31 weeksx50 hours/weekx6 Unskilled Labor
  - <sup>(5)</sup> Masonry saws included in individual tasks based on MSMeans2001
- Other equipment size and rental information from MSMeans 2001

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 3100	Activity Description: Area A Restoration									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Equipment & Material	
<b>Area A Restoration</b>										
Backfill (Rough)	1	lot	300.00	\$ 48.00	150.00	\$ 68.00	\$ 24,600.00	\$ 24,600.00	\$ 48,510.00	
Backfill (Topsoil)	1	lot	16.00	\$ 48.00	16.00	\$ 68.00	\$ 1,856.00	\$ 1,856.00	\$ 5,160.00	
			<b>316.00</b>		<b>166.00</b>		<b>\$ 26,456.00</b>	<b>\$ 26,456.00</b>	<b>\$ 53,670.00</b>	

**Notes:**

Equipment and Material from MSMeans2001  
 Rough=6,876 yd3 of common earth  
 Topsoil=609 yd3

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 3200	Activity Description: Area B Restoration									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Equipment & Material	
<b>Area B Restoration</b>										
Backfill (Rough)	1	lot	72.00	\$ 48.00	36.00	\$ 68.00	\$ 5,904.00	\$ 5,904.00	\$ 11,250.00	
Backfill (Topsoil)	1	lot	<u>8.00</u>	\$ 48.00	<u>8.00</u>	\$ 68.00	<u>\$ 928.00</u>	<u>\$ 928.00</u>	<u>\$ 3,542.00</u>	
			<b>80.00</b>		<b>44.00</b>		<b>\$ 6,832.00</b>	<b>\$ 6,832.00</b>	<b>\$ 14,792.00</b>	

**Notes:**

Equipment and Material from MSMeans2001  
 Rough=1,589 yd3 of common earth  
 Topsoil=420 yd3

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

<b>Activity No. 3300</b>	<b>Activity Description: Area C Restoration</b>
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	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Equipment & Material
<b>Area C Restoration</b>									
Backfill (Rough)	1	lot	24.00	\$ 48.00	12.00	\$ 68.00	\$ 1,968.00	\$ 1,968.00	\$ 3,730.00
Backfill (Topsoil)	1	lot	<u>8.00</u>	\$ 48.00	<u>8.00</u>	\$ 68.00	<u>\$ 928.00</u>	<u>\$ 928.00</u>	<u>\$ 1,850.00</u>
			<b>32.00</b>		<b>20.00</b>		<b>\$ 2,896.00</b>	<b>\$ 2,896.00</b>	<b>\$ 5,580.00</b>

**Notes:**

Rough=522 yd3 of common earth

Topsoil=218 yd3

Material and Equipment from MSMeans2001

**BCLDP JN-1 Demolition Project Estimate**

**ACTIVITY DATA SHEET**

Activity No. 3400	Activity Description: Area D Restoration									
	Quantity	Unit	Labor Unskilled Hours	Unskilled Rate	Laborer Skilled Hours	Skilled Rate	Labor Total	Labor Adjusted	Equipment & Material	
Area D Restoration	0		0.00 0.00	\$ -	0.00 0.00	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	

**Note: Very small area (included in Area B)**

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**SECTION 4**

**RATES AND FACTORS**

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**BCLDP JN-1 Demolition Project Estimate**

**WORK ADJUSTMENT FACTORS**

<b>Category</b>	<b>Percentage</b>
Height @ 15% Critical	15%
Respiratory @ 50% Adjusted	50%
RP/ALARA @ 25% of Critical	25%
Protective Clothing @ 30% Adjusted	30%
Work Break Duration	8.33%

<b>Description</b>	<b>Critical Duration</b>	<b>Adjusted Duration</b>	<b>Productive Duration</b>	<b>Work Break Adjustment</b>	<b>Total Duration</b>	<b>Adj Factor</b>
Contaminated Work	480	600.00	1,080.00	1,120.00	18.67	2.33
Contaminated Work w/ Height Adj	480	672.00	1,209.60	1,249.60	20.83	2.60
Clean Work	480	552.00	552.00	592.00	9.87	1.23

## RATES/FACTORS

**Comment 016**

**Subcontractor Labor Rates: Field Manual**

	<b>Normal</b>	<b>Overtime</b>
Project Manager	\$ 90.00	\$ 90.00
Radiological Engineer	\$ 80.00	\$ 80.00
Planner/Administrator	\$ 75.00	\$ 75.00
Foreman/ Safety Officer	\$ 75.00	\$ 94.50
Project Engineer	\$ 80.00	\$ 80.00
Electrician (Lead)	\$ 68.00	\$ 85.68
Electrician (Helper)	\$ 48.00	\$ 60.48
Laborer (Skilled)	\$ 68.00	\$ 85.68
Laborer (Unskilled)	\$ 48.00	\$ 60.48
R-22 Elec. Crew (RSMMeans)	\$ 54.67	\$ 68.88

<b>Number of Days/Week</b>	<b>5.00</b>	
<b>Number of Hours/ Workday</b>	<b>10</b>	
<b>JN-1 labor adjustment (Areas A, B, D)</b>	<b>1.66</b>	originally 2.0
<b>JN-1 labor adjustment (Areas C)</b>	<b>1</b>	originally 1.25

## RATES/FACTORS

Diamond Wire Saw				
ref #	# of cuts	Material type	Unit Cross Section Area ft2	Total cross section area ft2
2133 subcells	320	300#/ft3	3' x 3' 6"	3,360
2234 cell wall	10	300#/ft3	30' x 4'4"	1,290
2234 cell wall (2)	90	300#/ft3	3' x 4'4"	1,161
2234 pool	16	Normal concrete	14' x 2'6"	560
2234 pool (2)	16	Normal concrete	7' x 2'6"	280
2134	48	300#/ft3	3' x 6'	864
<b>Total</b>				<b>7,515</b>

Cost per ft2     \$ 116.43  
 Total Cost       \$875,000

Contractor Quote from Cutting Edge, Cincinnati, OH (1-513-388-0199)  
 Top level estimate , could change based on more detailed cutting plan

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 1E</b>	<b>Unit Factor - Flourescent 2' x 4', 4-lamp</b>
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**Ref.: R.S. Means Electrical Cost Data, Div 16055-2140, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Electrician	2	\$ 52.00	\$ 832.00
		<b>Total/ Crew Day</b>	<b>\$ 832.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>
<b>Performance: Daily Output</b>	<b>30 ea.</b>
<b>Unadjusted Unit Factor</b>	<b>\$ 27.73</b>
<b>Adjustment Factor</b>	<b>2.60</b>
<b>Adjusted Unit Factor</b>	<b>\$ 72.20</b>
<b>Ajusted Daily Output</b>	<b>11.52 ea.</b>
<b>Manhours Per Unit</b>	<b>1.39 Mhrs.</b>
<b>Labor Cost Per Unit</b>	<b>\$ 72.20</b>
<b>Material Cost Per Unit</b>	<b>\$ -</b>

## UNIT COST FACTOR DEVELOPMENT

<b>Factor 2E</b>	<b>Unit Factor - Lights Mercury Vapor, High Bay Area</b>
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Ref.: R.S. Means Electrical Cost Data, Div 16055-2560, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Electrician	2	\$ 52.00	\$ 832.00
<b>Total/ Crew Day</b>			<b>\$ 832.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	Units
<b>Performance: Daily Output</b>	<b>12 ea.</b>
<b>Unadjusted Unit Factor</b>	<b>\$ 69.33</b>
<b>Adjustment Factor</b>	<b>2.60</b>
<b>Adjusted Unit Factor</b>	<b>\$ 180.50</b>
<b>Ajusted Daily Output</b>	<b>4.61 ea.</b>
<b>Manhours Per Unit</b>	<b>3.47 Mhrs.</b>
<b>Labor Cost Per Unit</b>	<b>\$ 180.50</b>
<b>Material Cost Per Unit</b>	<b>\$ -</b>

## UNIT COST FACTOR DEVELOPMENT

<b>Factor 3E</b>	<b>Unit Factor - Panel Boards; 3 Wire 400A</b>
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Ref.: R.S. Means Electrical Cost Data, Div 16055-1250, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Electrician	1	\$ 52.00	\$ 416.00
<b>Total/ Crew Day</b>			<b>\$ 416.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	Units
Performance: Daily Output	1.1 ea.
Unadjusted Unit Factor	\$ 378.18
Adjustment Factor	2.33
Adjusted Unit Factor	\$ 882.42
Ajusted Daily Output	0.47 ea.
Manhours Per Unit	16.97 Mhrs.
Labor Cost Per Unit	\$ 882.42
Material Cost Per Unit	\$ -

## UNIT COST FACTOR DEVELOPMENT

<b>Factor 4E</b>	<b>Unit Factor - Transformers 37.5 kVA Single Phase Dry Type</b>
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Ref.: R.S. Means Electrical Cost Data, Div 16055-1400, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Electrician	2	\$ 52.00	\$ 832.00
<b>Total/ Crew Day</b>			<b>\$ 832.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	Units	
<b>Performance: Daily Output</b>	<b>3</b>	<b>ea.</b>
<b>Unadjusted Unit Factor</b>	<b>\$ 277.33</b>	
<b>Adjustment Factor</b>	<b>2.33</b>	
<b>Adjusted Unit Factor</b>	<b>\$ 647.11</b>	
<b>Ajusted Daily Output</b>	<b>1.29</b>	<b>ea.</b>
<b>Manhours Per Unit</b>	<b>12.44</b>	<b>Mhrs.</b>
<b>Labor Cost Per Unit</b>	<b>\$ 647.11</b>	
<b>Material Cost Per Unit</b>	<b>\$ -</b>	

## UNIT COST FACTOR DEVELOPMENT

**Factor 5E Unit Factor - Junction Boxes - 24" x 24" x 6"**

Ref. R.S. Means Electrical Cost Data, Div 16055-1680, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Electrician	1	\$ 52.00	\$ 416.00
<b>Total/ Crew Day</b>			<b>\$ 416.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

	Units	
Performance: Daily Output	12.3	ea.
Unadjusted Unit Factor	\$ 33.82	
Adjustment Factor	2.33	
Adjusted Unit Factor	\$ 78.92	
Ajusted Daily Output	5.27	ea.
Manhours Per Unit	1.52	Mhrs.
Labor Cost Per Unit	\$ 78.92	
Material Cost Per Unit	\$ -	

## UNIT COST FACTOR DEVELOPMENT

Factor 6E	Unit Factor - Bus Duct; 1000A
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Ref. R.S. Means Electrical Cost Data, Div 16055-0680, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Electrician	2	\$ 52.00	\$ 832.00
<b>Total/ Crew Day</b>			<b>\$ 832.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

		Units
Performance: Daily Output		60 LF
Unadjusted Unit Factor	\$ 13.87	
Adjustment Factor	2.33	
Adjusted Unit Factor	\$ 32.36	
Ajusted Daily Output		25.71 LF
Manhours Per Unit		0.62 Mhrs.
Labor Cost Per Unit	\$ 32.36	
Material Cost Per Unit	\$ -	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 5M</b>	<b>Unit Factor - Rooftop Exhaust Valve</b>
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Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
1 Common Building Laborer	1	\$ 37.00	\$ 296.00
<b>Total/ Crew Day</b>			<b>\$ 296.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>	
<b>Performance: Daily Output</b>	<b>180</b>	<b>LF</b>
<b>Unadjusted Unit Factor</b>	<b>\$ 1.64</b>	
<b>Adjustment Factor</b>	<b>2.60</b>	
<b>Adjusted Unit Factor</b>	<b>\$ 4.28</b>	
<b>Ajusted Daily Output</b>	<b>69.14</b>	<b>LF</b>
<b>Manhours Per Unit</b>	<b>0.12</b>	
<b>Labor Cost Per Unit</b>	<b>\$ 4.28</b>	
<b>Material Cost Per Unit</b>	<b>\$ -</b>	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 1M</b>	<b>Unit Factor - Removal of Boiler</b>
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Ref.: R.S. Means Mechanical Cost Data, Div 150555-300, 2001 - 24th Edition

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Steamfitter	1	\$ 52.00	\$ 416.00
Steamfitter - Apprentice	2	\$ 50.00	\$ 800.00
		<b>Total/ Crew Day</b>	<b>\$ 1,216.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>
<b>Performance: Daily Output</b>	2 ea.
<b>Unadjusted Unit Factor</b>	\$ 608.00
<b>Adjustment Factor</b>	2.33
<b>Adjusted Unit Factor</b>	\$ 1,418.67
<b>Ajusted Daily Output</b>	0.86 ea.
<b>Manhours Per Unit</b>	28.00
<b>Labor Cost Per Unit</b>	1,418.67
<b>Material Cost Per Unit</b>	-

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 2M</b>	<b>Unit Factor - Heavy Mechanical Equipment</b>
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Item No.		Tons
2	Chiller	2.0
3	Domestic Water Storage Tank	1.0
9	Rooftop Condenser	1.0
13	Rooftop Packaged Chiller	2.0
20	Rooftop CCW Chiller	2.0

Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Steamfitter	1	\$ 52.00	\$ 416.00
Steamfitter - Apprentice	1	\$ 50.00	\$ 400.00
<b>Total/ Crew Day</b>			<b>\$ 816.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

	Units	
<b>oor Level Uni Performance: Daily Output</b>	<b>1.1</b>	<b>Ton</b>
Unadjusted Unit Factor	\$ 741.82	
Adjustment Factor	2.33	
Adjusted Unit Factor	\$ 1,730.91	
Ajusted Daily Output	0.47	Ton
Manhours Per Unit	33.94	
Labor Cost Per Unit	1,730.91	
Material Cost Per Unit	-	

	Units	
<b>Rooftop Units Performance: Daily Output</b>	<b>1.1</b>	<b>Ton</b>
Unadjusted Unit Factor	\$ 741.82	
Adjustment Factor	2.60	
Adjusted Unit Factor	\$ 1,931.20	
Ajusted Daily Output	0.42	Ton
Manhours Per Unit	37.87	
Labor Cost Per Unit	\$ 1,931.20	
Material Cost Per Unit	-	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 3M</b>	<b>Unit Factor - Light Mechanical Equipment</b>
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Item No.		Tons
4	HHW Pump	0.1
5	CCW Pump	0.1
7	Air Compressor System	0.3
8	Expansion Tank	0.2
11	Rooftop Exhaust Fan	0.1
14	Rooftop Roof Vent	0.1
16	Rooftop Roof Vent	0.1
21	Rooftop CCW Pump	2.0

Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition

Labor Requirements	No.	Rate	Subtotal
Steamfitter	1	\$ 52.00	\$ 416.00
Steamfitter - Apprentice	1	\$ 50.00	\$ 400.00
<b>Total/ Crew Day</b>			<b>\$ 816.00</b>

Equipment	Equip/mo.	Hourly Oper \$	Subtotal
No Equipment Cost Listed			
<b>Subtotals</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

	Units	
<b>oor Level Uni Performance: Daily Output</b>	<b>0.9</b>	<b>Ton</b>
Unadjusted Unit Factor	\$ 906.67	
Adjustment Factor	2.33	
Adjusted Unit Factor	\$ 2,115.56	
Ajusted Daily Output	0.39	Ton
Manhours Per Unit	41.48	
Labor Cost Per Unit	\$ 2,115.56	
Material Cost Per Unit	\$ -	

	Units	
<b>Rooftop Units Performance: Daily Output</b>	<b>0.9</b>	<b>Ton</b>
Unadjusted Unit Factor	\$ 906.67	
Adjustment Factor	2.60	
Adjusted Unit Factor	\$ 2,360.36	
Ajusted Daily Output	0.35	Ton
Manhours Per Unit	46.28	
Labor Cost Per Unit	\$ 2,360.36	
Material Cost Per Unit	\$ -	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 4M</b>	<b>Unit Factor - Domestic Water Heater</b>
------------------	--

**Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Plumber	1	\$ 52.00	\$ 416.00
<b>Total/ Crew Day</b>			<b>\$ 416.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>
<b>Performance: Daily Output</b>	6 ea.
<b>Unadjusted Unit Factor</b>	\$ 69.33
<b>Adjustment Factor</b>	2.33
<b>Adjusted Unit Factor</b>	\$ 161.78
<b>Ajusted Daily Output</b>	2.57 ea.
<b>Manhours Per Unit</b>	3.11
<b>Labor Cost Per Unit</b>	\$ 161.78
<b>Material Cost Per Unit</b>	\$ -

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 5M</b>	<b>Unit Factor - Rooftop Exhaust Valve</b>
------------------	--

**Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
1 Common Building Laborer	1	\$ 37.00	\$ 296.00
<b>Total/ Crew Day</b>			<b>\$ 296.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>	
<b>Performance: Daily Output</b>	<b>180</b>	<b>LF</b>
<b>Unadjusted Unit Factor</b>	<b>\$ 1.64</b>	
<b>Adjustment Factor</b>	<b>2.60</b>	
<b>Adjusted Unit Factor</b>	<b>\$ 4.28</b>	
<b>Ajusted Daily Output</b>	<b>69.14</b>	<b>LF</b>
<b>Manhours Per Unit</b>	<b>0.12</b>	
<b>Labor Cost Per Unit</b>	<b>\$ 4.28</b>	
<b>Material Cost Per Unit</b>	<b>\$ -</b>	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 6M</b>	<b>Unit Factor - Rooftop Ductwork - 12"</b>
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Ref.: **R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
1 Common Building Laborer	1	\$ 37.00	\$ 296.00
<b>Total/ Crew Day</b>			<b>\$ 296.00</b>

**Equipment**

	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>	
<b>Performance: Daily Output</b>	150	LF
<b>Unadjusted Unit Factor</b>	\$ 1.97	
<b>Adjustment Factor</b>	2.60	
<b>Adjusted Unit Factor</b>	\$ 5.14	
<b>Ajusted Daily Output</b>	57.62	LF
<b>Manhours Per Unit</b>	0.14	
<b>Labor Cost Per Unit</b>	\$ 5.14	
<b>Material Cost Per Unit</b>	\$ -	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 7M</b>	<b>Unit Factor - Rooftop Ductwork - 24"</b>
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Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
1 Common Building Laborer	1	\$ 37.00	\$ 296.00
<b>Total/ Crew Day</b>			<b>\$ 296.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

	<b>Units</b>	
<b>Performance: Daily Output</b>	110	LF
<b>Unadjusted Unit Factor</b>	\$ 2.69	
<b>Adjustment Factor</b>	2.60	
<b>Adjusted Unit Factor</b>	\$ 7.01	
<b>Ajusted Daily Output</b>	42.25	LF
<b>Manhours Per Unit</b>	0.19	
<b>Labor Cost Per Unit</b>	\$ 7.01	
<b>Material Cost Per Unit</b>	\$ -	

**BCLDP JN-1 Demolition Project**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 8M</b>	<b>Unit Factor - 4"-6" Pipe</b>
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**Item No.**

<b>15</b>	<b>Unit Factor - Rooftop Water Pipe - 4"</b>	<b>80 LF</b>
<b>17</b>	<b>Unit Factor - Potable Water Pipe Through Slab</b>	<b>20 LF</b>
<b>19</b>	<b>Unit Factor - Natural Gas Main Through Slab</b>	<b>20 LF</b>

**Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Plumber	2	\$ 52.00	\$ 832.00
		<b>Total/ Crew Day</b>	<b>\$ 832.00</b>

**Equipment**

	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

**Units**

<b>Floor Level</b>	<b>Performance: Daily Output</b>	100	<b>LF</b>
	<b>Unadjusted Unit Factor</b>	\$ 8.32	
	<b>Adjustment Factor</b>	2.33	
	<b>Adjusted Unit Factor</b>	\$ 19.41	
	<b>Ajusted Daily Output</b>	42.86	<b>LF</b>
	<b>Manhours Per Unit</b>	0.37	
	<b>Labor Cost Per Unit</b>	\$ 19.41	
	<b>Material Cost Per Unit</b>	\$ -	
<b>Rooftop</b>	<b>Performance: Daily Output</b>	100	<b>LF</b>
	<b>Unadjusted Unit Factor</b>	\$ 8.32	
	<b>Adjustment Factor</b>	2.60	
	<b>Adjusted Unit Factor</b>	\$ 21.66	
	<b>Ajusted Daily Output</b>	38.41	<b>LF</b>
	<b>Manhours Per Unit</b>	0.42	
	<b>Labor Cost Per Unit</b>	\$ 21.66	
	<b>Material Cost Per Unit</b>	\$ -	

**BCLDP JN-1 Demolition Project Estimate**

**UNIT COST FACTOR DEVELOPMENT**

<b>Factor 9M</b>	<b>Unit Factor - Fire Hose Unit</b>
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**Ref.: R.S. Means Mechanical Cost Data, Div 150555-0300, 2001 - 24th Edition**

<b>Labor Requirements</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Plumber	2	\$ 52.00	\$ 832.00
		<b>Total/ Crew Day</b>	<b>\$ 832.00</b>

<b>Equipment</b>	<b>Equip/mo.</b>	<b>Hourly Oper \$</b>	<b>Subtotal</b>
No Equipment Cost Listed			
<b>Subtotals</b>	\$ -	\$ -	\$ -

		<b>Units</b>	
<b>Floor Level</b>	<b>Performance: Daily Output</b>	150	LF
	<b>Unadjusted Unit Factor</b>	\$ 5.55	
	<b>Adjustment Factor</b>	2.33	
	<b>Adjusted Unit Factor</b>	\$ 12.94	
	<b>Ajusted Daily Output</b>	64.29	LF
	<b>Manhours Per Unit</b>	0.25	
	<b>Labor Cost Per Unit</b>	\$ 12.94	
	<b>Material Cost Per Unit</b>	\$ -	