

CONSTRUCTION DIVISION

SPECIFICATION NO. 2724  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

ENGINEERING ESTIMATE: \$88,133,360  
 ADVERTISED DATE: APRIL 5, 2012  
 BID OPENING DATE: MAY 21, 2012

	GRAND TOTAL	ITEM 1
	BID ITEMS 1 - 93	LUMP SUM CONSTRUCTION
		LUMP SUM
ENGINEERING ESTIMATE	\$ 88,133,360.00	\$ 5,742,200.00
1) HERZOG CONTRACTING CORP.	\$ 89,990,801.00	\$ 2,204,001.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 90,928,370.00	\$ 11,500,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 101,463,000.00	\$ 3,819,800.00
4) BARNARD-RCC JV.	\$ 111,848,565.00	\$ 7,000,000.00

1) AVERAGE BID	\$ 98,557,684.00	\$ 6,130,950.25
2) STANDARD DEVIATION	\$ 10,274,341.75	\$ 4,096,514.31
3) ENG. EST. - LOW BIDDER	\$ (1,857,441.00)	\$ 3,538,199.00

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	ITEM 2		ITEM 3	
	DEMOLITION AND REMOVALS		COLD PLANING	
	LUMP SUM	Sq. Yd./In.	Approx. Qty. =	14100
ENGINEERING ESTIMATE	\$ 330,000.00	\$/sq yd/in 3.00	\$	42,300.00
1) HERZOG CONTRACTING CORP.	\$ 1,300,000.00	\$ 1.75	\$	24,675.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1,000,000.00	\$ 2.50	\$	35,250.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 454,861.00	\$ 1.25	\$	17,625.00
4) BARNARD-RCC JV.	\$ 3,500,000.00	\$ 1.05	\$	14,805.00

1) AVERAGE BID	\$	1,563,715.25	\$ 1.64	\$	23,088.75
2) STANDARD DEVIATION	\$	1,337,420.03	\$ 0.65	\$	9,108.33
3) ENG. EST. - LOW BIDDER	\$	(970,000.00)	\$ 1.25	\$	17,625.00

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	ITEM 4		ITEM 5	
	ASPHALT CONCRETE PAVING		ASPHALT CONCRETE BERM	
	Tons Approx. Qty. =	21000	Lin. Ft. Approx. Qty. =	6000
	\$/ton		\$/lin ft	
ENGINEERING ESTIMATE	\$ 115.00	\$ 2,415,000.00	\$ 4.00	\$ 24,000.00
1) HERZOG CONTRACTING CORP.	\$ 105.00	\$ 2,205,000.00	\$ 13.00	\$ 78,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 70.00	\$ 1,470,000.00	\$ 10.00	\$ 60,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 87.00	\$ 1,827,000.00	\$ 2.00	\$ 12,000.00
4) BARNARD-RCC JV.	\$ 90.00	\$ 1,890,000.00	\$ 10.00	\$ 60,000.00

1) AVERAGE BID	\$ 88.00	\$ 1,848,000.00	\$ 8.75	\$ 52,500.00
2) STANDARD DEVIATION	\$ 14.35	\$ 301,406.70	\$ 4.72	\$ 28,301.94
3) ENG. EST. - LOW BIDDER	\$ 10.00	\$ 210,000.00	\$ (9.00)	\$ (54,000.00)

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	ITEM 6		ITEM 7	
	PORTLAND CEMENT CONCRETE PAVEMENT		CRUSHED MISCELLANEOUS BASE (DEPARTMENT-FURNISHED)	
	Tons Approx. Qty. =	3000	Cu. Yds. Approx. Qty.	16000
	\$/ton		\$/cu yd	
ENGINEERING ESTIMATE	\$ 175.00	\$ 525,000.00	\$ 20.00	\$ 320,000.00
1) HERZOG CONTRACTING CORP.	\$ 350.00	\$ 1,050,000.00	\$ 27.00	\$ 432,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 150.00	\$ 450,000.00	\$ 18.00	\$ 288,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 315.00	\$ 945,000.00	\$ 15.00	\$ 240,000.00
4) BARNARD-RCC JV.	\$ 515.00	\$ 1,545,000.00	\$ 15.65	\$ 250,400.00

1) AVERAGE BID	\$ 332.50	\$ 997,500.00	\$ 18.91	\$ 302,600.00
2) STANDARD DEVIATION	\$ 149.69	\$ 449,082.40	\$ 5.54	\$ 88,696.34
3) ENG. EST. - LOW BIDDER	\$ (175.00)	\$ (525,000.00)	\$ (7.00)	\$ (112,000.00)

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	ITEM 8 GRAVEL BASE		ITEM 9 TRIAXIAL GEOGRID	
	Tons Approx. No. =	1000	Sq. Yds. Approx. Qty. =	125000
	\$/ton		\$/sq yd	
ENGINEERING ESTIMATE	\$ 35.00	\$ 35,000.00	\$ 4.00	\$ 500,000.00
1) HERZOG CONTRACTING CORP.	\$ 50.00	\$ 50,000.00	\$ 5.00	\$ 625,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 40.00	\$ 40,000.00	\$ 4.00	\$ 500,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 30.00	\$ 30,000.00	\$ 4.00	\$ 500,000.00
4) BARNARD-RCC JV.	\$ 34.00	\$ 34,000.00	\$ 4.00	\$ 500,000.00

1) AVERAGE BID	\$ 38.50	\$ 38,500.00	\$ 4.25	\$ 531,250.00
2) STANDARD DEVIATION	\$ 8.70	\$ 8,698.66	\$ 0.50	\$ 62,500.00
3) ENG. EST. - LOW BIDDER	\$ (15.00)	\$ (15,000.00)	\$ (1.00)	\$ (125,000.00)

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	ITEM 10		ITEM 11	ITEM 12
	DEPT FURNISHED DREDGED MATL TO BE USED AS FILL TO BE TREATED W/6% CEMENT		TRACK UNDERDRAIN SYSTEM	STORM DRAIN SYSTEM
	Cu. Yds. Approx. Qty. = 80000		LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$/cu yd \$ 35.00	\$ 2,800,000.00	\$ 1,450,000.00	\$ 3,584,500.00
1) HERZOG CONTRACTING CORP.	\$ 14.33	\$ 1,146,400.00	\$ 600,000.00	\$ 3,959,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 20.00	\$ 1,600,000.00	\$ 750,000.00	\$ 4,000,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 27.00	\$ 2,160,000.00	\$ 1,350,000.00	\$ 5,000,000.00
4) BARNARD-RCC JV.	\$ 34.00	\$ 2,720,000.00	\$ 750,000.00	\$ 7,250,000.00

1) AVERAGE BID	\$ 23.83	\$ 1,906,600.00	\$ 862,500.00	\$ 5,052,250.00
2) STANDARD DEVIATION	\$ 8.53	\$ 682,578.13	\$ 332,603.37	\$ 1,542,212.78
3) ENG. EST. - LOW BIDDER	\$ 20.67	\$ 1,653,600.00	\$ 850,000.00	\$ (374,500.00)

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	ITEM 13	ITEM 14	ITEM 15
	DEWATERING	SEWER SYSTEM	FIRE WATER DISTRIBUTION SYSTEM
	LUMP SUM	LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$ 3,194,500.00	\$ 420,000.00	\$ 1,400,000.00
1) HERZOG CONTRACTING CORP.	\$ 2,500,000.00	\$ 2,500,000.00	\$ 2,959,709.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 700,000.00	\$ 500,000.00	\$ 2,000,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 2,000,000.00	\$ 750,000.00	\$ 6,500,000.00
4) BARNARD-RCC JV.	\$ 4,000,000.00	\$ 2,000,000.00	\$ 3,000,000.00

1) AVERAGE BID	\$ 2,300,000.00	\$ 1,437,500.00	\$ 3,614,927.25
2) STANDARD DEVIATION	\$ 1,363,818.17	\$ 965,552.52	\$ 1,978,137.28
3) ENG. EST. - LOW BIDDER	\$ 694,500.00	\$ (2,080,000.00)	\$ (1,559,709.00)

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	ITEM 16	ITEM 17	ITEM 18
	DOMESTIC WATER DISTRIBUTION SYSTEM	GAS DISTRIBUTION SYSTEM	ELECTRICAL SYSTEM
	LUMP SUM	LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$ 131,200.00	\$ 15,500.00	\$ 250,000.00
1) HERZOG CONTRACTING CORP.	\$ 1,300,000.00	\$ 350,000.00	\$ 2,800,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 250,000.00	\$ 50,000.00	\$ 1,800,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 275,000.00	\$ 75,000.00	\$ 6,800,000.00
4) BARNARD-RCC JV.	\$ 850,000.00	\$ 60,000.00	\$ 5,000,000.00

1) AVERAGE BID	\$ 668,750.00	\$ 133,750.00	\$ 4,100,000.00
2) STANDARD DEVIATION	\$ 503,891.11	\$ 144,532.29	\$ 2,242,022.90
3) ENG. EST. - LOW BIDDER	\$ (1,168,800.00)	\$ (334,500.00)	\$ (2,550,000.00)



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	ITEM 19		ITEM 20	
	CONCRETE ENCASEMENT		FURNISH 24" OCTAGONAL PRESTRESSED CONCRETE PILES	
	Lin. Ft. Approx. Qty. = 140		Lin. Ft. Approx. Qty. = 5000	
	\$/lin ft		\$/lin ft	
ENGINEERING ESTIMATE	\$ 200.00	\$ 28,000.00	\$ 90.00	\$ 450,000.00
1) HERZOG CONTRACTING CORP.	\$ 600.00	\$ 84,000.00	\$ 72.00	\$ 360,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 100.00	\$ 14,000.00	\$ 75.00	\$ 375,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 230.00	\$ 32,200.00	\$ 75.00	\$ 375,000.00
4) BARNARD-RCC JV.	\$ 143.00	\$ 20,020.00	\$ 90.00	\$ 450,000.00

1) AVERAGE BID	\$ 268.25	\$ 37,555.00	\$ 78.00	\$ 390,000.00
2) STANDARD DEVIATION	\$ 227.68	\$ 31,875.43	\$ 8.12	\$ 40,620.19
3) ENG. EST. - LOW BIDDER	\$ (400.00)	\$ (56,000.00)	\$ 18.00	\$ 90,000.00

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	ITEM 21		ITEM 22	
	INSTALL 24" OCTAGONAL PRESTRESSED CONCRETE PILES		INDICATOR PILE TESTING: INSTALL 24" OCTAGONAL CONCRETE INDICATOR PILES	
	Each Approx. Qty. =		85 Each Approx. Qty. = 4	
	\$/ea		\$/ea	
ENGINEERING ESTIMATE	\$ 7,500.00	\$ 637,500.00	\$ 27,500.00	\$ 110,000.00
1) HERZOG CONTRACTING CORP.	\$ 3,130.00	\$ 266,050.00	\$ 20,000.00	\$ 80,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1,800.00	\$ 153,000.00	\$ 12,000.00	\$ 48,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 2,500.00	\$ 212,500.00	\$ 11,000.00	\$ 44,000.00
4) BARNARD-RCC JV.	\$ 4,500.00	\$ 382,500.00	\$ 10,000.00	\$ 40,000.00

1) AVERAGE BID	\$ 2,982.50	\$ 253,512.50	\$ 13,250.00	\$ 53,000.00
2) STANDARD DEVIATION	\$ 1,148.28	\$ 97,604.22	\$ 4,573.47	\$ 18,293.90
3) ENG. EST. - LOW BIDDER	\$ 4,370.00	\$ 371,450.00	\$ 7,500.00	\$ 30,000.00

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	ITEM 23		ITEM 24	
	FURNISH 14" SQUARE PRESTRESSED CONCRETE PILES		INSTALL 14" SQUARE PRESTRESSED CONCRETE PILES	
	Lin. Ft. Approx. Qty. =	13000	Each Approx. Qty. =	255
	\$/lin ft		\$/ea	
ENGINEERING ESTIMATE	\$ 60.00	\$ 780,000.00	\$ 3,000.00	\$ 765,000.00
1) HERZOG CONTRACTING CORP.	\$ 34.00	\$ 442,000.00	\$ 645.00	\$ 164,475.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 55.00	\$ 715,000.00	\$ 1,200.00	\$ 306,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 30.00	\$ 390,000.00	\$ 1,750.00	\$ 446,250.00
4) BARNARD-RCC JV.	\$ 27.00	\$ 351,000.00	\$ 1,600.00	\$ 408,000.00

1) AVERAGE BID	\$ 36.50	\$ 474,500.00	\$ 1,298.75	\$ 331,181.25
2) STANDARD DEVIATION	\$ 12.66	\$ 164,609.64	\$ 493.80	\$ 125,919.30
3) ENG. EST. - LOW BIDDER	\$ 26.00	\$ 338,000.00	\$ 2,355.00	\$ 600,525.00

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	ITEM 25		ITEM 26	
	INDICATOR PILE TESTING: INSTALL 14" SQUARE CONCRETE INDICATOR PILES		TRACK WORK	
	Each Approx. Qty. =		4 Trk. Ft. Approx. Qty. =	60000
	\$/ea		\$/Trk ft	
ENGINEERING ESTIMATE	\$ 7,500.00	\$ 30,000.00	\$ 195.00	\$ 11,700,000.00
1) HERZOG CONTRACTING CORP.	\$ 17,000.00	\$ 68,000.00	\$ 260.00	\$ 15,600,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 15,000.00	\$ 60,000.00	\$ 245.00	\$ 14,700,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 11,000.00	\$ 44,000.00	\$ 350.00	\$ 21,000,000.00
4) BARNARD-RCC JV.	\$ 9,000.00	\$ 36,000.00	\$ 275.00	\$ 16,500,000.00

1) AVERAGE BID	\$ 13,000.00	\$ 52,000.00	\$ 282.50	\$ 16,950,000.00
2) STANDARD DEVIATION	\$ 3,651.48	\$ 14,605.93	\$ 46.64	\$ 2,798,213.72
3) ENG. EST. - LOW BIDDER	\$ (9,500.00)	\$ (38,000.00)	\$ (65.00)	\$ (3,900,000.00)

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	ITEM 27		ITEM 28	
	NO. 9 TURNOUT		NO. 11 TURNOUT	
	Each Approx. Qty.=	33	Each Approx. Qty. =	25
	\$/ea		\$/ea	
ENGINEERING ESTIMATE	\$ 135,000.00	\$ 4,455,000.00	\$ 150,000.00	\$ 3,750,000.00
1) HERZOG CONTRACTING CORP.	\$ 135,000.00	\$ 4,455,000.00	\$ 170,000.00	\$ 4,250,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 140,000.00	\$ 4,620,000.00	\$ 160,000.00	\$ 4,000,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 132,000.00	\$ 4,356,000.00	\$ 175,000.00	\$ 4,375,000.00
4) BARNARD-RCC JV.	\$ 150,000.00	\$ 4,950,000.00	\$ 175,000.00	\$ 4,375,000.00

1) AVERAGE BID	\$ 139,250.00	\$ 4,595,250.00	\$ 170,000.00	\$ 4,250,000.00
2) STANDARD DEVIATION	\$ 7,889.87	\$ 260,365.61	\$ 7,071.07	\$ 176,776.70
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ (20,000.00)	\$ (500,000.00)

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	ITEM 29		ITEM 30	
	TRACK RAIL SUB-BALLAST		WALKWAY ROCK (PER CPUC GENERAL ORDER 118A)	
	Cu. Yds. Approx. Qty. = 33000		Cu. Yds. Approx. Qty. = 2000	
	\$/cu yd		\$/cu yd	
ENGINEERING ESTIMATE	\$ 35.00	\$ 1,155,000.00	\$ 35.00	\$ 70,000.00
1) HERZOG CONTRACTING CORP.	\$ 55.00	\$ 1,815,000.00	\$ 100.00	\$ 200,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 48.00	\$ 1,584,000.00	\$ 110.00	\$ 220,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 30.00	\$ 990,000.00	\$ 237.00	\$ 474,000.00
4) BARNARD-RCC JV.	\$ 20.00	\$ 660,000.00	\$ 110.00	\$ 220,000.00

1) AVERAGE BID	\$ 38.25	\$ 1,262,250.00	\$ 139.25	\$ 278,500.00
2) STANDARD DEVIATION	\$ 16.09	\$ 530,999.29	\$ 65.34	\$ 130,673.89
3) ENG. EST. - LOW BIDDER	\$ (20.00)	\$ (660,000.00)	\$ (65.00)	\$ (130,000.00)

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	ITEM 31		ITEM 32	
	BUMPING POST		SLIDING DERAIL WITH WHEEL CROWDER AND OPERATING STAND	
	Each Approx. Qty. =		3 Each Approx. Qty. = 4	
	\$/ea		\$/ea	
ENGINEERING ESTIMATE	\$ 8,000.00	\$ 24,000.00	\$ 7,500.00	\$ 30,000.00
1) HERZOG CONTRACTING CORP.	\$ 7,500.00	\$ 22,500.00	\$ 5,500.00	\$ 22,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 7,000.00	\$ 21,000.00	\$ 5,500.00	\$ 22,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 16,300.00	\$ 48,900.00	\$ 22,000.00	\$ 88,000.00
4) BARNARD-RCC JV.	\$ 8,000.00	\$ 24,000.00	\$ 6,000.00	\$ 24,000.00

1) AVERAGE BID	\$ 9,700.00	\$ 29,100.00	\$ 9,750.00	\$ 39,000.00
2) STANDARD DEVIATION	\$ 4,418.90	\$ 13,256.70	\$ 8,170.07	\$ 32,680.27
3) ENG. EST. - LOW BIDDER	\$ 500.00	\$ 1,500.00	\$ 2,000.00	\$ 8,000.00

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	ITEM 33	ITEM 34	ITEM 35
	RAILROAD SIGNALIZATION	FIBER OPTIC NETWORK	SIGNAGE (PERMANENT)
	LUMP SUM	LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$ 4,200,000.00	\$ 31,350.00	\$ 3,500.00
1) HERZOG CONTRACTING CORP.	\$ 3,500,000.00	\$ 65,176.00	\$ 35,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 4,000,000.00	\$ 125,000.00	\$ 25,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 4,000,000.00	\$ 500,000.00	\$ 25,000.00
4) BARNARD-RCC JV.	\$ 4,250,000.00	\$ 50,000.00	\$ 80,000.00

1) AVERAGE BID	\$ 3,937,500.00	\$ 185,044.00	\$ 41,250.00
2) STANDARD DEVIATION	\$ 314,576.43	\$ 212,452.18	\$ 26,259.92
3) ENG. EST. - LOW BIDDER	\$ 700,000.00	\$ (33,826.00)	\$ (31,500.00)



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	ITEM 36		ITEM 37	
	STRIPING AND PAVEMENT MARKINGS		8' HIGH CHAIN LINK FENCE WITH 3-STRAND BARBED WIRE	
	LUMP SUM		Lin. Ft. Approx. Qty. =	18000
ENGINEERING ESTIMATE	\$	67,000.00	\$/lin ft \$ 48.00	\$ 864,000.00
1) HERZOG CONTRACTING CORP.	\$	75,000.00	\$ 30.00	\$ 540,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$	60,000.00	\$ 26.00	\$ 468,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$	58,000.00	\$ 30.00	\$ 540,000.00
4) BARNARD-RCC JV.	\$	40,000.00	\$ 25.00	\$ 450,000.00

1) AVERAGE BID	\$	58,250.00	\$ 27.75	\$ 499,500.00
2) STANDARD DEVIATION	\$	14,338.18	\$ 2.63	\$ 47,339.20
3) ENG. EST. - LOW BIDDER	\$	(8,000.00)	\$ 18.00	\$ 324,000.00

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	ITEM 38	ITEM 39	
	GATES (CHAIN LINK AND TUBULAR STEEL) LUMP SUM	TUBULAR STEEL FENCE	
		Lin. Ft.	Approx. Qty. = 700
ENGINEERING ESTIMATE	\$ 86,000.00	\$/lin ft \$ 100.00	\$ 70,000.00
1) HERZOG CONTRACTING CORP.	\$ 200,000.00	\$ 100.00	\$ 70,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 200,000.00	\$ 85.00	\$ 59,500.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 250,000.00	\$ 120.00	\$ 84,000.00
4) BARNARD-RCC JV.	\$ 175,000.00	\$ 83.00	\$ 58,100.00

1) AVERAGE BID	\$ 206,250.00	\$ 97.00	\$ 67,900.00
2) STANDARD DEVIATION	\$ 31,457.64	\$ 17.11	\$ 11,975.25
3) ENG. EST. - LOW BIDDER	\$ (114,000.00)	\$ -	\$ -

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	ITEM 40		ITEM 41	
	SOD		SHREDDED FIR BARK MULCH - 3-INCH THICK LAYER	
	Sq. Ft. Apprx. Qty. =	1300	Cu. Yds. Apprx. Qty. =	500
	\$/sq ft		\$/cu yd	
ENGINEERING ESTIMATE	\$ 2.00	\$ 2,600.00	\$ 120.00	\$ 60,000.00
1) HERZOG CONTRACTING CORP.	\$ 10.00	\$ 13,000.00	\$ 25.00	\$ 12,500.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1.00	\$ 1,300.00	\$ 80.00	\$ 40,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 1.00	\$ 1,300.00	\$ 70.00	\$ 35,000.00
4) BARNARD-RCC JV.	\$ 0.70	\$ 910.00	\$ 80.00	\$ 40,000.00

1) AVERAGE BID	\$ 3.18	\$ 4,127.50	\$ 63.75	\$ 31,875.00
2) STANDARD DEVIATION	\$ 4.55	\$ 5,917.86	\$ 26.26	\$ 13,129.96
3) ENG. EST. - LOW BIDDER	\$ (8.00)	\$ (10,400.00)	\$ 95.00	\$ 47,500.00

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	ITEM 42		ITEM 43		
	PALM TREE		36 INCH BOX TREE		
	Each Approx. Qty. =		34	Each Approx. Qty. = 101	
	\$/ea		\$/ea		
ENGINEERING ESTIMATE	\$ 3,000.00	\$ 102,000.00	\$ 750.00	\$ 75,750.00	
1) HERZOG CONTRACTING CORP.	\$ 2,500.00	\$ 85,000.00	\$ 1,500.00	\$ 151,500.00	
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1,600.00	\$ 54,400.00	\$ 625.00	\$ 63,125.00	
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 1,416.00	\$ 48,144.00	\$ 670.00	\$ 67,670.00	
4) BARNARD-RCC JV.	\$ 1,520.00	\$ 51,680.00	\$ 605.00	\$ 61,105.00	

1) AVERAGE BID	\$ 1,759.00	\$ 59,806.00	\$ 850.00	\$ 85,850.00	
2) STANDARD DEVIATION	\$ 499.71	\$ 16,990.16	\$ 434.19	\$ 43,852.69	
3) ENG. EST. - LOW BIDDER	\$ 500.00	\$ 17,000.00	\$ (750.00)	\$ (75,750.00)	

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 44		ITEM 45	
	1 GALLON SHRUB		5 GALLON SHRUB	
	Each Approx. Qty. = 1200		Each Approx. Qty. = 1715	
	\$/ea		\$/ea	
ENGINEERING ESTIMATE	\$ 10.00	\$ 12,000.00	\$ 20.00	\$ 34,300.00
1) HERZOG CONTRACTING CORP.	\$ 8.00	\$ 9,600.00	\$ 20.00	\$ 34,300.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 6.00	\$ 7,200.00	\$ 27.00	\$ 46,305.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 9.00	\$ 10,800.00	\$ 17.00	\$ 29,155.00
4) BARNARD-RCC JV.	\$ 6.00	\$ 7,200.00	\$ 27.00	\$ 46,305.00

1) AVERAGE BID	\$ 7.25	\$ 8,700.00	\$ 22.75	\$ 39,016.25
2) STANDARD DEVIATION	\$ 1.50	\$ 1,800.00	\$ 5.06	\$ 8,674.46
3) ENG. EST. - LOW BIDDER	\$ 2.00	\$ 2,400.00	\$ -	\$ -

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 46		ITEM 47
	5 GALLON VINE		IRRIGATION SYSTEM
	Each Approx. Qty. = 88		LUMP SUM
	\$/ea		
ENGINEERING ESTIMATE	\$ 45.00	\$ 3,960.00	\$ 200,000.00
1) HERZOG CONTRACTING CORP.	\$ 25.00	\$ 2,200.00	\$ 250,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 80.00	\$ 7,040.00	\$ 200,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 88.00	\$ 7,744.00	\$ 110,000.00
4) BARNARD-RCC JV.	\$ 80.00	\$ 7,040.00	\$ 198,000.00

1) AVERAGE BID	\$ 68.25	\$ 6,006.00	\$ 189,500.00
2) STANDARD DEVIATION	\$ 29.08	\$ 2,558.94	\$ 58,203.67
3) ENG. EST. - LOW BIDDER	\$ 20.00	\$ 1,760.00	\$ (50,000.00)

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 48		ITEM 49			
	ROOT CONTROL BARRIER		PAVEMENT DEMOLITION AND REMOVALS			
	Lin. Ft.	Approx. Qty. =	2800	Tons	Approx. Qty. =	90000
	\$/lin ft			\$/ton		
ENGINEERING ESTIMATE	\$ 10.00	\$ 28,000.00		\$ 10.00	\$ 900,000.00	
1) HERZOG CONTRACTING CORP.	\$ 25.00	\$ 70,000.00		\$ 10.00	\$ 900,000.00	
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 5.00	\$ 14,000.00		\$ 4.00	\$ 360,000.00	
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 8.00	\$ 22,400.00		\$ 10.00	\$ 900,000.00	
4) BARNARD-RCC JV.	\$ 5.25	\$ 14,700.00		\$ 15.00	\$ 1,350,000.00	

1) AVERAGE BID	\$ 10.81	\$ 30,275.00	\$ 9.75	\$ 877,500.00
2) STANDARD DEVIATION	\$ 9.56	\$ 26,755.36	\$ 4.50	\$ 405,000.00
3) ENG. EST. - LOW BIDDER	\$ (15.00)	\$ (42,000.00)	\$ -	\$ -

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 50		ITEM 51
	REMOVE AND DISPOSE ASBESTOS CEMENT PIPE		CONCRETE BRIDGE OVER DRAINAGE CHANNEL
	Lin. Ft.	Approx. Qty. =	LUMP SUM
ENGINEERING ESTIMATE	\$/lin ft \$ 225.00	\$ 18,000.00	\$ 2,600,000.00
1) HERZOG CONTRACTING CORP.	\$ 300.00	\$ 24,000.00	\$ 1,300,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 400.00	\$ 32,000.00	\$ 1,200,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 230.00	\$ 18,400.00	\$ 1,850,000.00
4) BARNARD-RCC JV.	\$ 335.00	\$ 26,800.00	\$ 3,500,000.00

1) AVERAGE BID	\$ 316.25	\$ 25,300.00	\$ 1,962,500.00
2) STANDARD DEVIATION	\$ 70.87	\$ 5,669.80	\$ 1,064,091.94
3) ENG. EST. - LOW BIDDER	\$ (75.00)	\$ (6,000.00)	\$ 1,300,000.00



**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 52		ITEM 53			
	RELOCATE 12-INCH STEEL WATERLINE W/20" STEEL PROTECTIVE CASING		RELOCATE 8" STEEL WATERLINE WITH 16" STEEL PROTECTIVE CASING			
	Lin. Ft.	Approx. Qty. =	500	Lin. Ft.	Approx. Qty. =	200
	\$/lin ft			\$/lin ft		
ENGINEERING ESTIMATE	\$ 950.00	\$	475,000.00	\$ 800.00	\$	160,000.00
1) HERZOG CONTRACTING CORP.	\$ 450.00	\$	225,000.00	\$ 550.00	\$	110,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 300.00	\$	150,000.00	\$ 400.00	\$	80,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 400.00	\$	200,000.00	\$ 370.00	\$	74,000.00
4) BARNARD-RCC JV.	\$ 653.00	\$	326,500.00	\$ 620.00	\$	124,000.00

1) AVERAGE BID	\$ 450.75	\$	225,375.00	\$ 485.00	\$	97,000.00
2) STANDARD DEVIATION	\$ 148.56	\$	74,278.05	\$ 119.58	\$	23,916.52
3) ENG. EST. - LOW BIDDER	\$ 500.00	\$	250,000.00	\$ 250.00	\$	50,000.00

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 54	ITEM 55	ITEM 56
	VALERO PIPELINE SYSTEM	AIR PRODUCTS PIPELINE SYSTEM	MODULAR BUILDING
	LUMP SUM	LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$ 6,028,200.00	\$ 100,000.00	\$ 1,860,500.00
1) HERZOG CONTRACTING CORP.	\$ 4,400,000.00	\$ 2,000,000.00	\$ 3,000,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 4,000,000.00	\$ 700,000.00	\$ 2,500,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 3,800,000.00	\$ 650,000.00	\$ 2,000,000.00
4) BARNARD-RCC JV.	\$ 6,000,000.00	\$ 910,000.00	\$ 2,000,000.00

1) AVERAGE BID	\$ 4,550,000.00	\$ 1,065,000.00	\$ 2,375,000.00
2) STANDARD DEVIATION	\$ 998,331.94	\$ 633,429.82	\$ 478,713.55
3) ENG. EST. - LOW BIDDER	\$ 1,628,200.00	\$ (1,900,000.00)	\$ (1,139,500.00)

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 57		ITEM 58	
	MAINTENANCE BUILDING		15 FOOT LIGHT POLE	
	LUMP SUM	Each Approx. Qty. =	60	
ENGINEERING ESTIMATE	\$ 4,200,000.00	\$/ea \$ 2,500.00	\$ 150,000.00	
1) HERZOG CONTRACTING CORP.	\$ 6,686,935.00	\$ 2,500.00	\$ 150,000.00	
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 7,250,000.00	\$ 5,000.00	\$ 300,000.00	
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 7,000,000.00	\$ 4,000.00	\$ 240,000.00	
4) BARNARD-RCC JV.	\$ 5,500,000.00	\$ 3,750.00	\$ 225,000.00	

1) AVERAGE BID	\$ 6,609,233.75	\$ 3,812.50	\$ 228,750.00	
2) STANDARD DEVIATION	\$ 774,535.70	\$ 1,028.25	\$ 61,694.81	
3) ENG. EST. - LOW BIDDER	\$ (2,486,935.00)	\$ -	\$ -	

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 59		ITEM 60	
	20 FOOT LIGHT POLE		100 FOOT HIGH MAST LIGHT POLE	
	Each Approx. Qty. = 165		Each Approx. Qty. = 3	
	\$/ea		\$/ea	
ENGINEERING ESTIMATE	\$ 3,000.00	\$ 495,000.00	\$ 130,000.00	\$ 390,000.00
1) HERZOG CONTRACTING CORP.	\$ 1,200.00	\$ 198,000.00	\$ 15,500.00	\$ 46,500.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 7,000.00	\$ 1,155,000.00	\$ 170,000.00	\$ 510,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 4,000.00	\$ 660,000.00	\$ 200,000.00	\$ 600,000.00
4) BARNARD-RCC JV.	\$ 5,000.00	\$ 825,000.00	\$ 175,000.00	\$ 525,000.00

1) AVERAGE BID	\$ 4,300.00	\$ 709,500.00	\$ 140,125.00	\$ 420,375.00
2) STANDARD DEVIATION	\$ 2,413.85	\$ 398,285.07	\$ 84,113.39	\$ 252,340.17
3) ENG. EST. - LOW BIDDER	\$ 1,800.00	\$ 297,000.00	\$ 114,500.00	\$ 343,500.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 61		ITEM 62	
	STREET LIGHT POLE		FURNISH IMPORTED FILL SOIL	
	Each Approx. Qty. =		9 Cu. Yds. Approx. Qty. = 10000	
	\$/ea		\$/cu yd	
ENGINEERING ESTIMATE	\$ 7,500.00	\$ 67,500.00	\$ 25.00	\$ 250,000.00
1) HERZOG CONTRACTING CORP.	\$ 2,500.00	\$ 22,500.00	\$ 11.00	\$ 110,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 11,000.00	\$ 99,000.00	\$ 25.00	\$ 250,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 3,000.00	\$ 27,000.00	\$ 36.00	\$ 360,000.00
4) BARNARD-RCC JV.	\$ 6,000.00	\$ 54,000.00	\$ 45.00	\$ 450,000.00

1) AVERAGE BID	\$ 5,625.00	\$ 50,625.00	\$ 29.25	\$ 292,500.00
2) STANDARD DEVIATION	\$ 3,902.46	\$ 35,122.11	\$ 14.66	\$ 146,600.36
3) ENG. EST. - LOW BIDDER	\$ 5,000.00	\$ 45,000.00	\$ 14.00	\$ 140,000.00

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 63		ITEM 64	
	STEEL CASING AND CARRIER PIPE		EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY NON-RCRA CA HAZ WASTE SOIL AT A CLASS I LANDFILL, 0-1000 TONS PER ORDER	
	LUMP SUM		Tons Approx. Qty. =	5000
ENGINEERING ESTIMATE	\$	1,800,000.00	\$/ton \$ 100.00	\$ 500,000.00
1) HERZOG CONTRACTING CORP.	\$	100.00	\$ 81.94	\$ 409,700.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$	2,500,000.00	\$ 70.00	\$ 350,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$	1.00	\$ 85.00	\$ 425,000.00
4) BARNARD-RCC JV.	\$	2,900,000.00	\$ 107.00	\$ 535,000.00

1) AVERAGE BID	\$	1,350,025.25	\$ 85.99	\$ 429,925.00
2) STANDARD DEVIATION	\$	1,567,346.73	\$ 15.43	\$ 77,162.31
3) ENG. EST. - LOW BIDDER	\$	1,799,900.00	\$ 18.06	\$ 90,300.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 65	
	EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY NON-RCRA CA HAZ WASTE SOIL AT A CLASS I LANDFILL, 1000-5000 TONS/ORDER Tons Approx. Qty. = 5000	
ENGINEERING ESTIMATE	\$/ton \$ 95.00	\$ 475,000.00
1) HERZOG CONTRACTING CORP.	\$ 82.03	\$ 410,150.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 70.00	\$ 350,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 68.00	\$ 340,000.00
4) BARNARD-RCC JV.	\$ 102.00	\$ 510,000.00

1) AVERAGE BID	\$ 80.51	\$ 402,537.50
2) STANDARD DEVIATION	\$ 15.61	\$ 78,053.97
3) ENG. EST. - LOW BIDDER	\$ 12.97	\$ 64,850.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 66	
	EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY CHEM IMPACTED/NON-HAZ WASTE SOIL AT A CLASS III LANDFILL, 0-1000 TONS/ORDER	
	Tons Approx. Qty. = 5000	
ENGINEERING ESTIMATE	\$/ton \$ 80.00	\$ 400,000.00
1) HERZOG CONTRACTING CORP.	\$ 42.03	\$ 210,150.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 40.00	\$ 200,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 38.00	\$ 190,000.00
4) BARNARD-RCC JV.	\$ 70.00	\$ 350,000.00

1) AVERAGE BID	\$ 47.51	\$ 237,537.50
2) STANDARD DEVIATION	\$ 15.08	\$ 75,424.94
3) ENG. EST. - LOW BIDDER	\$ 37.97	\$ 189,850.00



**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 67	
	EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY CHEM IMPACTED/NON-HAZ WASTE SOIL AT A CLASS III LANDFILL, 1000-5000 TONS/ORDER Tons Approx. Qty. = 5000	
ENGINEERING ESTIMATE	\$/ton \$ 75.00	\$ 375,000.00
1) HERZOG CONTRACTING CORP.	\$ 42.03	\$ 210,150.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 40.00	\$ 200,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 38.00	\$ 190,000.00
4) BARNARD-RCC JV.	\$ 70.00	\$ 350,000.00

1) AVERAGE BID	\$ 47.51	\$ 237,537.50
2) STANDARD DEVIATION	\$ 15.08	\$ 75,424.94
3) ENG. EST. - LOW BIDDER	\$ 32.97	\$ 164,850.00

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 68	
	EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY RCRA HAZARDOUS WASTE SOIL AT A CLASS I LANDFILL, 0-1000 TONS/ORDER	
	Tons Approx. Qty. = 5000	
	\$/ton	
ENGINEERING ESTIMATE	\$ 180.00	\$ 900,000.00
1) HERZOG CONTRACTING CORP.	\$ 137.82	\$ 689,100.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 150.00	\$ 750,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 145.00	\$ 725,000.00
4) BARNARD-RCC JV.	\$ 180.00	\$ 900,000.00

1) AVERAGE BID	\$ 153.21	\$ 766,025.00
2) STANDARD DEVIATION	\$ 18.55	\$ 92,748.06
3) ENG. EST. - LOW BIDDER	\$ 42.18	\$ 210,900.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 69		ITEM 70	
	EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, & DISPOSE OR RECY RCRA HAZARDOUS WASTE SOIL AT A CLASS I LANDFILL, 1000-5000 TONS/ORDER		EXCAVATE, REMOVE, CHARACTERIZE, STOCKPILE, AND REUSE SUITABLE SOIL AS FILL	
	Tons Approx. Qty. =	5000	Tons Approx. Qty. =	5000
	\$/ton		\$/ton	
ENGINEERING ESTIMATE	\$ 170.00	\$ 850,000.00	\$ 40.00	\$ 200,000.00
1) HERZOG CONTRACTING CORP.	\$ 137.82	\$ 689,100.00	\$ 19.45	\$ 97,250.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 145.00	\$ 725,000.00	\$ 10.00	\$ 50,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 138.00	\$ 690,000.00	\$ 100.00	\$ 500,000.00
4) BARNARD-RCC JV.	\$ 180.00	\$ 900,000.00	\$ 45.00	\$ 225,000.00

1) AVERAGE BID	\$ 150.21	\$ 751,025.00	\$ 43.61	\$ 218,062.50
2) STANDARD DEVIATION	\$ 20.14	\$ 100,713.47	\$ 40.39	\$ 201,971.57
3) ENG. EST. - LOW BIDDER	\$ 32.18	\$ 160,900.00	\$ 20.55	\$ 102,750.00

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 71		ITEM 72	
	SUBGRADE OR TRENCH STABILIZATION WITH 3/4" CRUSHED ROCK MATERIAL		SUBGRADE OR TRENCH STABILIZATION WITH DEPT FURNISHED CRUSHED MISC BASE	
	Cu. Yds. Approx. Qty. =	5000	Cu. Yds. Approx. Qty. =	5000
ENGINEERING ESTIMATE	\$/cu yd \$ 60.00	\$ 300,000.00	\$/cu yd \$ 50.00	\$ 250,000.00
1) HERZOG CONTRACTING CORP.	\$ 63.16	\$ 315,800.00	\$ 20.79	\$ 103,950.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 90.00	\$ 450,000.00	\$ 70.00	\$ 350,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 130.00	\$ 650,000.00	\$ 100.00	\$ 500,000.00
4) BARNARD-RCC JV.	\$ 70.00	\$ 350,000.00	\$ 25.00	\$ 125,000.00

1) AVERAGE BID	\$ 88.29	\$ 441,450.00	\$ 53.95	\$ 269,737.50
2) STANDARD DEVIATION	\$ 30.05	\$ 150,241.17	\$ 37.93	\$ 189,646.45
3) ENG. EST. - LOW BIDDER	\$ (3.16)	\$ (15,800.00)	\$ 29.21	\$ 146,050.00

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 73			ITEM 74	
	SUBGRADE STABILIZATION WITH TRIAXIAL GEOGRID			SUBGRADE STABILIZATION WITH IMPORT FILL	
	Sq. Yds. Approx. Qty. =		2000	Cu. Yds. Approx. Qty. =	
	\$/sq yd			\$/cu yd	
ENGINEERING ESTIMATE	\$ 10.00	\$ 20,000.00		\$ 50.00	\$ 250,000.00
1) HERZOG CONTRACTING CORP.	\$ 8.64	\$ 17,280.00		\$ 33.66	\$ 168,300.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 4.00	\$ 8,000.00		\$ 55.00	\$ 275,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 4.00	\$ 8,000.00		\$ 115.00	\$ 575,000.00
4) BARNARD-RCC JV.	\$ 10.00	\$ 20,000.00		\$ 45.00	\$ 225,000.00

1) AVERAGE BID	\$ 6.66	\$ 13,320.00	\$ 62.17	\$ 310,825.00
2) STANDARD DEVIATION	\$ 3.12	\$ 6,242.56	\$ 36.29	\$ 181,430.58
3) ENG. EST. - LOW BIDDER	\$ 1.36	\$ 2,720.00	\$ 16.34	\$ 81,700.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 75		ITEM 76	
	RISK LEVEL 2 WATER QUALITY SAMPLING & ANALYSIS FOR RAIN EVENT		FLAGPERSON(S)	
	Rain Events Approx. Qty. = 70		Day Approx. Qty. = 175	
ENGINEERING ESTIMATE	\$/rain event \$ 1,500.00	\$ 105,000.00	\$/day \$ 1,200.00	\$ 210,000.00
1) HERZOG CONTRACTING CORP.	\$ 100.00	\$ 7,000.00	\$ 650.00	\$ 113,750.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1,800.00	\$ 126,000.00	\$ 750.00	\$ 131,250.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 650.00	\$ 45,500.00	\$ 650.00	\$ 113,750.00
4) BARNARD-RCC JV.	\$ 625.00	\$ 43,750.00	\$ 650.00	\$ 113,750.00

1) AVERAGE BID	\$ 793.75	\$ 55,562.50	\$ 675.00	\$ 118,125.00
2) STANDARD DEVIATION	\$ 717.16	\$ 50,201.42	\$ 50.00	\$ 8,750.00
3) ENG. EST. - LOW BIDDER	\$ 1,400.00	\$ 98,000.00	\$ 550.00	\$ 96,250.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 77		ITEM 78	
	TESTING, STORAGE, & DISPOSAL OF CONTAMINATED GROUNDWATER, 0-20000 GALLONS PER ORDER		TESTING, STORAGE, & DISPOSAL OF CONTAMINATED GROUNDWATER, 20000 - 60000 GALLONS PER ORDER	
	Gallons Approx. Qty. = 100000		Gallons Approx. Qty. = 500000	
	\$/gallon		\$/gallon	
ENGINEERING ESTIMATE	\$ 2.00	\$ 200,000.00	\$ 1.50	\$ 750,000.00
1) HERZOG CONTRACTING CORP.	\$ 1.50	\$ 150,000.00	\$ 1.50	\$ 750,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 0.30	\$ 30,000.00	\$ 0.30	\$ 150,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 0.50	\$ 50,000.00	\$ 0.50	\$ 250,000.00
4) BARNARD-RCC JV.	\$ 0.65	\$ 65,000.00	\$ 0.45	\$ 225,000.00

1) AVERAGE BID	\$ 0.74	\$ 73,750.00	\$ 0.69	\$ 343,750.00
2) STANDARD DEVIATION	\$ 0.53	\$ 52,816.51	\$ 0.55	\$ 274,146.40
3) ENG. EST. - LOW BIDDER	\$ 0.50	\$ 50,000.00	\$ -	\$ -

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 79		ITEM 80	
	TESTING, STORAGE, & DISPOSAL OF RCRA HAZARDOUS GROUNDWATER, 0-20000 GALLONS PER ORDER Gallons Approx. Qty. = 100000		TESTING, STORAGE, AND DISPOSAL OF RCRA HAZARDOUS GROUNDWATER, 20000-60000 GALLONS PER ORDER Gallons Approx. Qty. = 500000	
	\$/gallon		\$/gallon	
ENGINEERING ESTIMATE	\$ 4.00	\$ 400,000.00	\$ 3.50	\$ 1,750,000.00
1) HERZOG CONTRACTING CORP.	\$ 1.50	\$ 150,000.00	\$ 1.50	\$ 750,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 1.10	\$ 110,000.00	\$ 1.05	\$ 525,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 1.10	\$ 110,000.00	\$ 1.10	\$ 550,000.00
4) BARNARD-RCC JV.	\$ 1.50	\$ 150,000.00	\$ 1.30	\$ 650,000.00

1) AVERAGE BID	\$ 1.30	\$ 130,000.00	\$ 1.24	\$ 618,750.00
2) STANDARD DEVIATION	\$ 0.23	\$ 23,094.01	\$ 0.21	\$ 102,824.69
3) ENG. EST. - LOW BIDDER	\$ 2.50	\$ 250,000.00	\$ 2.00	\$ 1,000,000.00



**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 81		ITEM 82	
	TESTING, STORAGE, AND DISPOSAL OF CA HAZARDOUS GROUNDWATER, 0-20000 GALLONS PER ORDER		TESTING, STORAGE, AND DISPOSAL OF CA HAZARDOUS GROUNDWATER, 20000 - 60000 GALLONS PER ORDER	
	Gallons Approx. Qty. = 100000		Gallons Approx. Qty. = 500000	
	\$/gallon		\$/gallon	
ENGINEERING ESTIMATE	\$ 4.00	\$ 400,000.00	\$ 3.50	\$ 1,750,000.00
1) HERZOG CONTRACTING CORP.	\$ 1.50	\$ 150,000.00	\$ 1.50	\$ 750,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 0.60	\$ 60,000.00	\$ 0.60	\$ 300,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 0.75	\$ 75,000.00	\$ 0.60	\$ 300,000.00
4) BARNARD-RCC JV.	\$ 1.00	\$ 100,000.00	\$ 1.50	\$ 750,000.00

1) AVERAGE BID	\$ 0.96	\$ 96,250.00	\$ 1.05	\$ 525,000.00
2) STANDARD DEVIATION	\$ 0.39	\$ 39,449.33	\$ 0.52	\$ 259,807.62
3) ENG. EST. - LOW BIDDER	\$ 2.50	\$ 250,000.00	\$ 2.00	\$ 1,000,000.00

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**

	ITEM 83	ITEM 84	ITEM 85
	FIELD OFFICE	UNFORESEEN UTILITY & SUB- STRUCTURE MOD, ABANDONMENT, REMOVALS, AND ADDITIONS (ALLOWANCE ITEM)	MAINTAIN RAIL TRAFFIC  (ALLOWANCE ITEM)
	LUMP SUM		
ENGINEERING ESTIMATE	\$ 250,000.00	\$ 1,500,000.00	\$ 500,000.00
1) HERZOG CONTRACTING CORP.	\$ 350,000.00	\$ 1,500,000.00	\$ 500,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 200,000.00	\$ 1,500,000.00	\$ 500,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 75,000.00	\$ 1,500,000.00	\$ 500,000.00
4) BARNARD-RCC JV.	\$ 850,000.00	\$ 1,500,000.00	\$ 500,000.00

1) AVERAGE BID	\$ 368,750.00	\$ 1,500,000.00	\$ 500,000.00
2) STANDARD DEVIATION	\$ 339,960.17	\$ -	\$ -
3) ENG. EST. - LOW BIDDER	\$ (100,000.00)	\$ -	\$ -

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 86	ITEM 87	ITEM 88
	QUALITY ASSURANCE  (ALLOWANCE ITEM)	UNFORESEEN REGULATORY REQUIREMENTS  (ALLOWANCE ITEM)	UNFORESEEN TESTING  (ALLOWANCE ITEM)
ENGINEERING ESTIMATE	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00
1) HERZOG CONTRACTING CORP.	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00
4) BARNARD-RCC JV.	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00

1) AVERAGE BID	\$ 600,000.00	\$ 500,000.00	\$ 300,000.00
2) STANDARD DEVIATION	\$ -	\$ -	\$ -
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ -

**SPECIFICATION NO. 2724**  
**BERTH 200 RAIL YARD**  
**PROJ. MGR.: PHUONG NGUYEN**


	ITEM 89	ITEM 90	ITEM 91
	UNFORESEEN PERMIT FEES  (ALLOWANCE ITEM)	TENANT REQUESTED WORK  (ALLOWANCE ITEM)	MISCELLANEOUS APPURTENANCES  (ALLOWANCE ITEM)
ENGINEERING ESTIMATE	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00
1) HERZOG CONTRACTING CORP.	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00
4) BARNARD-RCC JV.	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00

1) AVERAGE BID	\$ 250,000.00	\$ 500,000.00	\$ 500,000.00
2) STANDARD DEVIATION	\$ -	\$ -	\$ -
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ -

**SPECIFICATION NO. 2724**  
 BERTH 200 RAIL YARD  
 PROJ. MGR.: PHUONG NGUYEN

	ITEM 92	ITEM 93	GRAND TOTAL
	OWNER DIRECTED OVERTIME  (ALLOWANCE ITEM)	PARTNERING  (ALLOWANCE ITEM)	ITEMS 1 - 93
ENGINEERING ESTIMATE	\$ 500,000.00	\$ 150,000.00	\$ 176,266,720.00
1) HERZOG CONTRACTING CORP.	\$ 500,000.00	\$ 150,000.00	\$ 89,990,801.00
2) SHIMMICK CONSTRUCTION CO., INC.	\$ 500,000.00	\$ 150,000.00	\$ 90,928,370.00
3) KIEWIT INFRASTRUCTURE WEST CO.	\$ 500,000.00	\$ 150,000.00	\$ 101,463,000.00
4) BARNARD-RCC JV.	\$ 500,000.00	\$ 150,000.00	\$ 111,848,565.00

1) AVERAGE BID	\$ 500,000.00	\$ 150,000.00	\$ 98,557,684.00
2) STANDARD DEVIATION	\$ -	\$ -	\$ 10,274,341.75
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ 86,275,919.00

  
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 SHAUN SHAHRESTANI  
 Chief Harbor Engineer  
 Construction Division