

CONCEPTUAL DESIGN SUBMITTAL
CONSTRUCTION COST ESTIMATE

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
KETCHIKAN, ALASKA

PREPARED FOR:

Jensen Yorba Lott, Inc.
522 W. 10th Street
Juneau, Alaska 99801

April 20, 2009



HMS Project No.: 08011

NOTES REGARDING THE PREPARATION OF THIS ESTIMATE

DRAWINGS AND DOCUMENTS

Level of Documents: Eight conceptual drawings and existing recreational center drawings
Date: December 4, 2007
Provided By: Jensen Yorba Lott, Inc. of Juneau, Alaska

RATES

Pricing is based on current material, equipment and freight costs.

Labor Rates: A.S. Title 36 prevailing wage rates

BIDDING ASSUMPTIONS

Contract: Standard construction contract without restrictive bidding clauses
Bidding Situation: Competitive bids assumed
Bid Date: Fall 2010 with construction to start early spring 2011
Months to Complete: Within 15 months (July 2012)

EXCLUDED COSTS

1. A/E design fees
2. Administrative and management costs
3. Remediation of contaminated soils, if found during construction
4. Owner furnished equipment and furnishings

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NOTES REGARDING THE PREPARATION OF THIS ESTIMATE (Continued)

GENERAL

When included in HMS Inc.'s scope of services, opinions or estimates of probable construction costs are prepared on the basis of HMS Inc.'s experience and qualifications and represent HMS Inc.'s judgment as a professional generally familiar with the industry. However, since HMS Inc. has no control over the cost of labor, materials, equipment or services furnished by others, over contractor's methods of determining prices, or over competitive bidding or market conditions, HMS Inc. cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from HMS Inc.'s opinions or estimates of probable construction cost.

This estimate assumes normal escalation based on the current economic climate in Alaska. It is not possible to gauge the effect of the global economic down turn on construction costs in Alaska. HMS Inc. will continue to monitor these events and the resulting construction climate, and will adjust costs and contingencies as deemed prudent.

GROSS FLOOR AREA

FIRST FLOOR	26,671 SF
SECOND FLOOR	<u>8,142 SF</u>
TOTAL GROSS FLOOR AREA:	<u>34,813 SF</u>

Note: Original conceptual estimate has been updated to reflect new construction date.

HMS Project No.: 08011

CONCEPTUAL COST SUMMARY

	<i>Material</i>	<i>Labor</i>	<i>Total</i>
01 - SITE WORK	\$ 421,248	\$ 433,995	\$ 855,243
02 - SUBSTRUCTURE	268,840	196,415	465,255
03 - SUPERSTRUCTURE	774,363	422,313	1,196,676
04 - EXTERIOR CLOSURE	342,431	156,990	499,421
05 - ROOF SYSTEMS	281,273	189,109	470,382
06 - INTERIOR CONSTRUCTION	398,375	450,578	848,953
07 - CONVEYING SYSTEMS	0	0	0
08 - MECHANICAL	1,052,674	768,786	1,821,460
09 - ELECTRICAL	309,785	254,446	564,231
10 - EQUIPMENT	190,239	41,703	231,942
11 - SPECIAL CONSTRUCTION (Pool)	1,884,120	1,012,730	2,896,850
SUBTOTAL:	\$ 5,923,348	\$ 3,927,065	\$ 9,850,413
12 - GENERAL REQUIREMENTS			3,212,183
SUBTOTAL:			\$ 13,062,596
13 - CONTINGENCIES			4,337,369
TOTAL ESTIMATED CONSTRUCTION COST (BID FALL 2010):			\$ 17,399,965

OPTION 1 - Reduce Building and Pool Sizes - \$ 2,147,890

OPTION 2 - Upgrade Controls in Existing Recreation Center \$ 643,046

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ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Rate \$/SF Floor Area</i>
01 - SITE WORK				\$ 855,243	\$ 24.57
011 - Site Preparation	103,250	168,700	271,950		7.81
012 - Site Improvements	181,382	120,299	301,681		8.67
013 - Site Mechanical	37,645	82,566	120,211		3.45
014 - Site Electrical	98,971	62,430	161,401		4.64
02 - SUBSTRUCTURE				\$ 465,255	\$ 13.36
021 - Standard Foundations	\$ 159,308	\$ 125,748	\$ 285,056		8.19
022 - Slab on Grade	109,532	70,667	180,199		5.18
023 - Basement	0	0	0		0.00
024 - Special Foundations	0	0	0		0.00
03 - SUPERSTRUCTURE				\$ 1,196,676	\$ 34.37
031 - Floor Construction	\$ 120,230	\$ 56,647	\$ 176,877		5.08
032 - Roof Construction	632,804	355,506	988,310		28.39
033 - Stair Construction	21,329	10,160	31,489		0.90
04 - EXTERIOR CLOSURE				\$ 499,421	\$ 14.35
041 - Exterior Walls	\$ 250,205	\$ 135,198	\$ 385,403		11.07
042 - Exterior Doors and Windows	92,226	21,792	114,018		3.28
05 - ROOF SYSTEMS				\$ 470,382	\$ 13.51
051 - Roofing	\$ 281,273	\$ 189,109	\$ 470,382		13.51
052 - Skylights	0	0	0		0.00
06 - INTERIOR CONSTRUCTION				\$ 848,953	\$ 24.39
061 - Partitions and Doors	\$ 145,490	\$ 159,244	\$ 304,734		8.75
062 - Interior Finishes	150,314	257,022	407,336		11.70
063 - Specialties	102,571	34,312	136,883		3.93
07 - CONVEYING SYSTEMS	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0.00

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ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Rate \$/SF Floor Area</i>
08 - MECHANICAL				\$ 1,821,460	\$ 52.32
081 - Plumbing	\$ 139,995	\$ 144,300	\$ 284,295		8.17
082 - HVAC	821,397	512,017	1,333,414		38.30
083 - Fire Protection	91,282	112,469	203,751		5.85
084 - Special Mechanical Systems	0	0	0		0.00
09 - ELECTRICAL				\$ 564,231	\$ 16.21
091 - Service and Distribution	\$ 103,743	\$ 54,836	\$ 158,579		4.56
092 - Lighting and Power	162,002	137,591	299,593		8.61
093 - Special Electrical Systems	44,040	62,019	106,059		3.05
10 - EQUIPMENT				\$ 231,942	\$ 6.66
101 - Fixed and Movable Equipment	\$ 180,150	\$ 39,900	\$ 220,050		6.32
102 - Furnishings	10,089	1,803	11,892		0.34
11 - SPECIAL CONSTRUCTION (Pool)	\$ 1,884,120	\$ 1,012,730		\$ 2,896,850	\$ 83.21
SUBTOTAL DIRECT WORK:	\$ 5,923,348	\$ 3,927,065		\$ 9,850,413	
12 - GENERAL REQUIREMENTS				\$ 3,212,183	\$ 92.27
121 - Mobilization			\$ 237,200		6.81
122 - Operation Costs			1,975,771		56.75
123 - Profit			999,212		28.70
13 - CONTINGENCIES				\$ 4,337,369	\$ 124.59
131 - Estimator's Contingency	15.00%		\$ 1,959,389		56.28
132 - Escalation Contingency	15.83%		2,377,980		68.31
TOTAL ESTIMATED CONSTRUCTION COST:				\$ 17,399,965	\$499.81 /SF
				GROSS FLOOR AREA:	34,813 SF

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

DATE: 4/20/2009

HMS Project No.: 08011

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
011 - Site Preparation								

PREPARATION

Site survey and staking	2.40	AC	1500.00	3,600	8500.00	20,400	10000.00	24,000
Dust and erosion control	55,000	SF	0.03	1,650	0.07	3,850	0.10	5,500
SWPPP implementation	1	LOT	1000.00	1,000	3000.00	3,000	4000.00	4,000
Dewatering allowance	1	LOT	1000.00	1,000	5000.00	5,000	6000.00	6,000
Traffic control and barriers (minimal)	1	LOT	1000.00	1,000	3000.00	3,000	4000.00	4,000
Temporary construction fencing and gates	1,200	LF	6.50	7,800	3.30	3,960	9.80	11,760

SITE DEMOLITION

Remove curb and gutter	2,172	LF			3.30	7,168	3.30	7,168
Remove concrete walks	5,890	SF			1.50	8,835	1.50	8,835
Remove asphalt pavement and dispose for recycling	50,420	SF			0.50	25,210	0.50	25,210

BUILDING DEMOLITION

Remove exterior double doors	2	PRS			90.00	180	90.00	180
Remove exterior single door	1	EA			70.00	70	70.00	70
Remove windows/aluminum store front	357	SF			4.50	1,607	4.50	1,607

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DATE: 4/20/2009

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01 - SITE WORK 011 - Site Preparation	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

BUILDING DEMOLITION (Continued)

Remove metal roofing	128	SF			2.65	339	2.65	339
Remove flashings	180	LF			2.80	504	2.80	504
Remove exterior wall	1,024	SF			5.95	6,093	5.95	6,093
Dispose debris	80	TONS	80.00	6,400	25.00	2,000	105.00	8,400

EARTHWORK

Excavate and dispose for building pad and pool average 4'0" deep	3,950	CY			5.80	22,910	5.80	22,910
Excavate and dispose rock for pool	860	CY			14.50	12,470	14.50	12,470
Excavate and dispose for pavements, walks, etc. average 1'0" deep	1,920	CY			5.80	11,136	5.80	11,136
Classified fill under building pad, compacted, average 2'0" deep	1,975	CY	18.00	35,550	5.70	11,258	23.70	46,808
Classified fill under roads, walks, etc., compacted, average 1'0" deep	2,300	CY	18.00	41,400	5.70	13,110	23.70	54,510
Rough grade site	55,000	SF			0.12	6,600	0.12	6,600
Soils compaction tests	14	EA	275.00	3,850			275.00	3,850

TOTAL ESTIMATED COST:				\$ 103,250		\$ 168,700		\$ 271,950
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01 - SITE WORK 012 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

CONCRETE RETAINING WALLS, STEPS AND RAMP AT PARKING

Retaining Walls

Excavate and dispose for retaining wall								With Earthwork
Rockery retaining wall	1,100	SF	8.50	9,350	5.35	5,885	13.85	15,235

MISCELLANEOUS SITE FEATURES

(8) slot bike racks	2	EA	645.00	1,290	120.00	240	765.00	1,530
30'0" flag pole and base	1	EA	2900.00	2,900	855.00	855	3755.00	3,755
Monumental facility sign	1	EA	3200.00	3,200	1050.00	1,050	4250.00	4,250
8'0" dumpster screen	36	LF	34.50	1,242	10.20	367	44.70	1,609
12'0"x6'0" gate	1	EA	850.00	850	330.00	330	1180.00	1,180

AC PAVEMENTS/CONCRETE CURBS, ETC.

2" leveling course, compacted	340	CY	29.00	9,860	6.50	2,210	35.50	12,070
2" AC pavements	47,600	SF	1.55	73,780	1.10	52,360	2.65	126,140
Match existing pavement	60	LF	2.30	138	3.10	186	5.40	324
24"x12" to 12 1/2" x 6" thick concrete curb and gutter	1,170	LF	11.50	13,455	9.90	11,583	21.40	25,038

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01 - SITE WORK 012 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

AC PAVEMENTS/CONCRETE CURBS, ETC. (Continued)

Mark parking stalls	120	EA	12.00	1,440	18.00	2,160	30.00	3,600
Mark handicapped symbols	6	EA	15.00	90	40.00	240	55.00	330
Cross hatch markings	414	SF	0.45	186	0.85	352	1.30	538
Handicapped signs, posts and bases	6	EA	95.00	570	75.00	450	170.00	1,020
Traffic signs	2	EA	115.00	230	80.00	160	195.00	390
Asphalt tests	16	EA	250.00	4,000			250.00	4,000

CONCRETE WALKS

6" D1 gravel base, compacted	90	CY	25.00	2,250	7.00	630	32.00	2,880
4" mesh reinforced scored concrete walks, including joints	4,285	SF	3.25	13,926	2.60	11,141	5.85	25,067
4" concrete stoops at doors (1)	25	SF	5.00	125	4.00	100	9.00	225

LANDSCAPING/PLAYGROUND

Landscaping allowance	1	LOT	35000.00	35,000	10000.00	10,000	45000.00	45,000
Relocate playground equipment	1	LOT	7500.00	7,500	20000.00	20,000	27500.00	27,500

TOTAL ESTIMATED COST:				\$ 181,382		\$ 120,299		\$ 301,681
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 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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01 - SITE WORK 013 - Site Mechanical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

WATER

No Site Work

SEWER

Excavate and remove existing 6" sewer line	420	LF			10.00	4,200	10.00	4,200
8" manhole/cleanout connections	4	EA	67.00	268	155.00	620	222.00	888
8" building connection and sleeve	1	EA	190.00	190	285.00	285	475.00	475
8" yard cleanout with cover	3	EA	335.00	1,005	220.00	660	555.00	1,665
8" DI pipe	420	LF	27.50	11,550	22.70	9,534	50.20	21,084
8" fittings	6	EA	345.00	2,070	220.00	1,320	565.00	3,390
8" couplings	20	EA	145.00	2,900	120.00	2,400	265.00	5,300
Excavate trench and stockpile	650	CY			6.75	4,388	6.75	4,388
Bedding material	52	CY	25.00	1,300	7.00	364	32.00	1,664
Stockpiled backfill, compacted	598	CY			5.80	3,468	5.80	3,468
6" PVC marker tape	420	LF	0.52	218	0.33	139	0.85	357
Pressure test piping	1	LOT	200.00	200	1000.00	1,000	1200.00	1,200

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01 - SITE WORK 013 - Site Mechanical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

STORM DRAIN

Excavate and remove storm drain pipe	560	LF			7.50	4,200	7.50	4,200
Excavate and remove catch basin (store for reuse)	8	EA			655.00	5,240	655.00	5,240
12" diameter CPEP storm drain pipe	550	LF	15.25	8,388	7.85	4,318	23.10	12,706
Reinstall catch basin manhole	8	EA	150.00	1,200	1030.00	8,240	1180.00	9,440
Connections to new catch basin manhole	16	EA	100.00	1,600	500.00	8,000	600.00	9,600
Miscellaneous connections	1	LOT	250.00	250	500.00	500	750.00	750
Excavate trench and stockpile	245	CY			6.75	1,654	6.75	1,654
Bedding material, compacted	30	CY	25.00	750	7.00	210	32.00	960
Stockpiled backfilling	215	CY			5.80	1,247	5.80	1,247
6" PVC marker tape	550	LF	0.52	286	0.33	182	0.85	468

MISCELLANEOUS

Premium time	120	HRS			70.00	8,400	70.00	8,400
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SUBTOTAL:

\$ 32,175	\$ 70,569	\$ 102,744
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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01 - SITE WORK	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$

Subcontractor's Overhead and Profit on Materials	17.00%			5,470				5,470
Subcontractor's Overhead and Profit on Labor	17.00%					11,997		11,997

TOTAL ESTIMATED COST:	\$ 37,645	\$ 82,566	\$ 120,211
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 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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01 - SITE WORK 014 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

DEMOLITION

Remove light poles and fixtures	4	EA			550.00	2,200	550.00	2,200
Remove transformer	1	EA			720.00	720	720.00	720

OVERHEAD POWER

Temporary support of overhead power, cable and telephone	1	LOT	1500.00	1,500	2700.00	2,700	4200.00	4,200
Relocate power poles	3	EA	250.00	750	1800.00	5,400	2050.00	6,150

POWER

New primary power to building	1	LOT						By Utility Co.
500 KVA transformer, pad mounted on existing pad	1	EA	27400.00	27,400	3750.00	3,750	31150.00	31,150
Transformer bushings and connections	3	EA	185.00	555	120.00	360	305.00	915
4" RGS conduit up to meter base (2)	30	LF	33.25	998	14.50	435	47.75	1,433
500 KCMIL secondary conductors (4)	120	LF	6.20	744	3.75	450	9.95	1,194
Test and tag service	1	LOT	200.00	200	1100.00	1,100	1300.00	1,300

LIGHTING, ETC.

7" diameter x 15'0" steel piles	8	EA	785.00	6,280	535.00	4,280	1320.00	10,560
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 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
014 - Site Electrical								

MISCELLANEOUS

Premium time	92	HRS			75.00	6,900	75.00	6,900
SUBTOTAL:					\$ 84,591	\$ 53,359		\$ 137,950
Subcontractor's Overhead and Profit on Materials	17.00%			14,380				14,380
Subcontractor's Overhead and Profit on Labor	17.00%					9,071		9,071

TOTAL ESTIMATED COST:	\$ 98,971	\$ 62,430	\$ 161,401
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02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
021 - Standard Foundation								

FOUNDATIONS

Excavate for exterior foundations	325	CY			7.00	2,275	7.00	2,275
NFS backfill, compacted	325	CY	12.50	4,063	7.50	2,438	20.00	6,501
Concrete spread footings	21	CY	195.00	4,095	70.00	1,470	265.00	5,565
Concrete strip footings	174	CY	195.00	33,930	65.00	11,310	260.00	45,240
2'0" thick concrete pad for slide and diving board foundations	6	CY	195.00	1,170	75.00	450	270.00	1,620
10" concrete walls	141	CY	195.00	27,495	70.00	9,870	265.00	37,365
2'0"x2'0" concrete pilasters	28	CY	195.00	5,460	75.00	2,100	270.00	7,560
Concrete waste	18	CY	195.00	3,510	65.00	1,170	260.00	4,680
Pump concrete	388	CY	24.00	9,312			24.00	9,312
Bar reinforcement to footings	19,140	LBS	0.65	12,441	0.55	10,527	1.20	22,968
Bar reinforcement to walls and pilasters	20,190	LBS	0.70	14,133	0.60	12,114	1.30	26,247
Formwork to spread footings	450	SF	1.50	675	4.10	1,845	5.60	2,520
Formwork to strip footings	2,629	SF	1.50	3,944	3.90	10,253	5.40	14,197

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02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
021 - Standard Foundation								

FOUNDATIONS (Continued)

Formwork to walls (3 uses)	9,210	SF	1.70	15,657	4.10	37,761	5.80	53,418
Formwork to pilasters	1,688	SF	1.95	3,292	5.00	8,440	6.95	11,732

MISCELLANEOUS

Membrane waterproofing to exterior walls/ footings	2,092	SF	2.15	4,498	2.55	5,335	4.70	9,833
4" rigid insulation to foundations	3,406	SF	1.74	5,926	1.10	3,747	2.84	9,673
4" perforated PVC trench drain	550	LF	5.35	2,943	6.70	3,685	12.05	6,628
Tie-in 4" pipe to storm drain	1	EA	48.00	48	150.00	150	198.00	198
Drain rock to perforated drains	46	CY	30.00	1,380	8.00	368	38.00	1,748
Geofabric wrap	440	SY	1.90	836	1.00	440	2.90	1,276
Concrete core tests	20	EA	225.00	4,500			225.00	4,500

TOTAL ESTIMATED COST:				\$ 159,308		\$ 125,748		\$ 285,056
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 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
022 - Slab on Grade								
4" leveling course (includes under pool tanks)	390	CY	27.00	10,530	6.50	2,535	33.50	13,065
4" rigid insulation under pool basin	9,902	SF	1.74	17,229	1.10	10,892	2.84	28,121
2" rigid insulation at heated slabs	5,992	SF	0.90	5,393	0.50	2,996	1.40	8,389
8 mil vapor barrier	26,671	SF	0.10	2,667	0.15	4,001	0.25	6,668
4" concrete slab	202	CY	195.00	39,390	60.00	12,120	255.00	51,510
5" concrete slab in pool equipment room	12	CY	195.00	2,340	60.00	720	255.00	3,060
Thickened edge slabs	8	CY	195.00	1,560	70.00	560	265.00	2,120
Concrete waste	11	CY	195.00	2,145	60.00	660	255.00	2,805
Pump concrete	233	CY	24.00	5,592			24.00	5,592
Cure and finish slab, including control joints	16,029	SF	0.30	4,809	1.10	17,632	1.40	22,441
Bar reinforcement	18,640	LBS	0.65	12,116	0.60	11,184	1.25	23,300
<u>MISCELLANEOUS</u>								
Expansion joints	680	LF	1.25	850	1.45	986	2.70	1,836
4" housekeeping pads	150	SF	3.75	563	4.10	615	7.85	1,178
Anchor bolts at column bases	104	EA	5.20	541	15.00	1,560	20.20	2,101

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

02 - SUBSTRUCTURE	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
022 - Slab on Grade								

MISCELLANEOUS (Continued)

Anchor bolts at 32" o/c for wall tracks	200	EA	3.80	760	15.50	3,100	19.30	3,860
2" non-shrink grout at base plates	59	SF	13.50	797	18.75	1,106	32.25	1,903
Concrete core tests	10	EA	225.00	2,250			225.00	2,250

Note: Pool tanks with Element 011 Special Construction.

TOTAL ESTIMATED COST:	\$ 109,532	\$ 70,667	\$ 180,199
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
031 - Floor Construction								
Bent plate deck edging (412 LF)	2,060	LBS	1.20	2,472	1.30	2,678	2.50	5,150
Miscellaneous angles, plates and bolt connections	500	LBS	1.30	650	1.50	750	2.80	1,400
8" hollow core concrete panels set over CMU walls	8,142	SF	11.80	96,076	4.55	37,046	16.35	133,122
Overall 2 1/2" thick concrete topping	63	CY	195.00	12,285	60.00	3,780	255.00	16,065
Concrete waste	3	CY	195.00	585	60.00	180	255.00	765
Pump concrete	66	CY	22.50	1,485			22.50	1,485
Cure and finish topping	8,142	SF	0.30	2,443	1.10	8,956	1.40	11,399
W6x6 to 1.4x1.4 mesh reinforcement	8,142	SF	0.52	4,234	0.40	3,257	0.92	7,491
TOTAL ESTIMATED COST:				\$ 120,230		\$ 56,647		\$ 176,877

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
032 - Roof Construction								

ROOF FRAMING

Base plates (26)	1,602	LBS	1.20	1,922	1.05	1,682	2.25	3,604
W-columns, beams, joists, etc.	126,000	LBS	1.15	144,900	0.95	119,700	2.10	264,600
77'0" span T.S. trusses at 16'0" o/c (12)	88,240	LBS	1.20	105,888	0.90	79,416	2.10	185,304
Deck edging (770'0")	3,870	LBS	1.20	4,644	1.30	5,031	2.50	9,675
Miscellaneous angles, plates, bolts and connections	16,350	LBS	1.30	21,255	1.50	24,525	2.80	45,780
Beam/column connections	26	EA	52.00	1,352	75.00	1,950	127.00	3,302
3"x18 gauge galvanized acoustical decking over pool	20,300	SF	11.00	223,300	3.70	75,110	14.70	298,410
1 1/2" deep x 20 gauge steel decking over bleachers, etc.	6,480	SF	2.70	17,496	1.25	8,100	3.95	25,596

MISCELLANEOUS

Special steel inspections and weld tests	1	LOT	25000.00	25,000			25000.00	25,000
50 ton crane for structural work	2.5	MOS	22500.00	56,250	1000.00	2,500	23500.00	58,750
Temporary shoring and bracing	26,780	SF	1.15	30,797	1.40	37,492	2.55	68,289

TOTAL ESTIMATED COST:				\$ 632,804		\$ 355,506		\$ 988,310
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

03 - SUPERSTRUCTURE	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
033 - Stair Construction								
Concrete filled pan interior stairs (2)	270	SF	52.00	14,040	23.00	6,210	75.00	20,250
Single rail handrails	88	LF	18.70	1,646	12.50	1,100	31.20	2,746
1 1/2" diameter multi-rail handrail	114	LF	49.50	5,643	25.00	2,850	74.50	8,493
TOTAL ESTIMATED COST:				\$ 21,329		\$ 10,160		\$ 31,489

HMS Project No.: 08011

04 - EXTERIOR CLOSURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
041 - Exterior Walls								

WALLS

8" CMU walls, fully reinforced and grouted	2,610	SF	6.70	17,487	8.25	21,533	14.95	39,020
Hat channel furring, 24" o/c	4,300	LF	0.55	2,365	1.50	6,450	2.05	8,815
6" metal studs, 16" o/c	10,680	SF	1.10	11,748	1.30	13,884	2.40	25,632
Prefinished metal siding	10,680	SF	15.50	165,540	5.25	56,070	20.75	221,610
Air infiltration barrier - weather shield	10,680	SF	0.38	4,058	0.25	2,670	0.63	6,728
4" rigid insulation	10,680	SF	1.60	17,088	0.55	5,874	2.15	22,962
5/8" plywood sheathing	10,680	SF	0.78	8,330	0.75	8,010	1.53	16,340
5/8" gypboard sheathing, inside	7,143	SF	0.55	3,929	1.50	10,715	2.05	14,644
Vapor barrier	7,143	SF	0.08	571	0.12	857	0.20	1,428
Metal soffit panel	2,100	SF	8.55	17,955	3.95	8,295	12.50	26,250
4" batt insulation at soffits	2,100	SF	0.54	1,134	0.40	840	0.94	1,974

TOTAL ESTIMATED COST:	\$ 250,205	\$ 135,198	\$ 385,403
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

04 - EXTERIOR CLOSURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
042 - Exterior Doors and Windows								
6'0"x7'0" thermal break aluminum door frame	1	EA	375.00	375	150.00	150	525.00	525
6'0"x7'0" insulated galvanized hollow metal door frame	1	EA	210.00	210	120.00	120	330.00	330
3'0"x7'0"x2" insulated fiberglass double doors	1	PR	730.00	730	120.00	120	850.00	850
3'0"x7'3"x1 3/4" insulated aluminum double door, fully glazed	1	PR	1995.00	1,995	180.00	180	2175.00	2,175
Fiberglass double doors hardware set	1	EA	880.00	880	330.00	330	1210.00	1,210
Aluminum glazed doors hardware set	1	EA	1035.00	1,035	450.00	450	1485.00	1,485
<u>WINDOWS</u>								
Insulated glazed fixed fiberglass windows	700	SF	45.00	31,500	11.00	7,700	56.00	39,200
Aluminum curtain wall system, Low E glass	750	SF	68.00	51,000	14.00	10,500	82.00	61,500
Aluminum storefront	42	SF	62.00	2,604	14.00	588	76.00	3,192
<u>MISCELLANEOUS</u>								
Paint door frames	2	EA	15.00	30	65.00	130	80.00	160
Caulking and sealants to doors and windows	950	LF	0.55	523	1.25	1,188	1.80	1,711
Architecture louver to mechanical opening (1)	48	SF	28.00	1,344	7.00	336	35.00	1,680
TOTAL ESTIMATED COST:				\$ 92,226		\$ 21,792		\$ 114,018

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

05 - ROOF SYSTEMS	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
051 - Roofing								

MAIN ROOF

Pre-finished standing seam metal roofing	26,780	SF	5.45	145,951	3.50	93,730	8.95	239,681
Ice/water shield	26,780	SF	0.76	20,353	0.65	17,407	1.41	37,760
1/2" plywood	26,780	SF	0.60	16,068	0.50	13,390	1.10	29,458
6" rigid insulation	26,780	SF	2.45	65,611	1.20	32,136	3.65	97,747
2"x blocking	16,100	LF	1.20	19,320	1.30	20,930	2.50	40,250
Vapor retarder	26,780	SF	0.08	2,142	0.12	3,214	0.20	5,356
Metal ridge cap flashing	152	LF	5.20	790	3.75	570	8.95	1,360
Roof/wall flashing	533	LF	3.25	1,732	3.10	1,652	6.35	3,384
Seismic joint	164	LF	29.75	4,879	10.50	1,722	40.25	6,601
Snow guards	150	LF	9.50	1,425	5.20	780	14.70	2,205
2"x framing at eaves and soffits, (2) 2"x6", (1) 2"x10"	533	LF	2.30	1,226	4.30	2,292	6.60	3,518
Gutters and downspouts	320	LF	5.55	1,776	4.02	1,286	9.57	3,062

TOTAL ESTIMATED COST:				\$ 281,273		\$ 189,109		\$ 470,382
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HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

PARTITIONS

8" CMU walls, fully reinforced and grouted, pointed both sides	9,160	SF	6.70	61,372	8.75	80,150	15.45	141,522
8" ditto pointed one side only (common wall)	4,960	SF	6.70	33,232	7.75	38,440	14.45	71,672
6" metal studs 16" o/c to interior partitions	8,303	SF	0.92	7,639	1.20	9,964	2.12	17,603
5/8" Type X gypboard to partitions, both sides	16,606	SF	0.52	8,635	1.10	18,267	1.62	26,902
6" sound batts to partitions	1,000	SF	0.62	620	0.33	330	0.95	950

DOOR FRAMES

6'0"x7'0" aluminum frame	1	EA	310.00	310	130.00	130	440.00	440
6'0"x7'0" hollow metal frames	3	EA	145.00	435	85.00	255	230.00	690
3'0"x7'0" hollow metal galvanized frames	17	EA	115.00	1,955	75.00	1,275	190.00	3,230
2'0"x7'0" hollow metal galvanized frames	2	EA	98.00	196	67.00	134	165.00	330

DOORS

3'0"x7'0"x1 3/4" fiberglass single flush doors	10	EA	320.00	3,200	60.00	600	380.00	3,800
3'0"x7'0"x1 3/4" fiberglass single doors with vision light	7	EA	360.00	2,520	65.00	455	425.00	2,975

HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

DOORS (Continued)

2'0"x7'0"x1 3/4" fiberglass single doors	2	EA	225.00	450	55.00	110	280.00	560
3'0"x7'0"x1 3/4" fiberglass double doors with vision light	3	PRS	695.00	2,085	135.00	405	830.00	2,490

HARDWARE GROUPS

Double doors	3	EA	785.00	2,355	320.00	960	1105.00	3,315
Single doors	17	EA	445.00	7,565	210.00	3,570	655.00	11,135
Plumbing chase doors	2	EA	130.00	260	80.00	160	210.00	420

WINDOWS

Aluminum framed glazed windows	272	SF	44.75	12,172	11.00	2,992	55.75	15,164
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MISCELLANEOUS

Caulking and sealants to doors and windows	698	LF	0.70	489	1.50	1,047	2.20	1,536
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TOTAL ESTIMATED COST:				\$ 145,490		\$ 159,244		\$ 304,734
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HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
062 - Interior Finishes								

FLOOR FINISHES

Ceramic tiles at toilets/showers, etc. over membrane waterproofing	3,178	SF	7.85	24,947	9.55	30,350	17.40	55,297
Tile flooring at natatorium deck over membrane waterproofing	8,273	SF	8.30	68,666	9.55	79,007	17.85	147,673
Concrete sealer and hardener to floors	2,386	SF	0.35	835	0.75	1,790	1.10	2,625
Rubber flooring at stairs	400	SF	5.20	2,080	6.50	2,600	11.70	4,680
Vinyl composition tiles at viewing, etc.	3,084	SF	2.20	6,785	1.50	4,626	3.70	11,411
4" ceramic tile base	1,989	LF	4.15	8,254	5.30	10,542	9.45	18,796
4" rubber base	675	LF	0.95	641	1.20	810	2.15	1,451

WALL FINISHES

Epoxy paint CMU walls	23,280	SF	0.48	11,174	1.55	36,084	2.03	47,258
Paint gypboard walls with moisture resistant paint	16,606	SF	0.25	4,152	1.40	23,248	1.65	27,400

CEILING FINISHES

Epoxy paint exposed structures	34,813	SF	0.48	16,710	1.65	57,441	2.13	74,151
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
062 - Interior Finishes								

MISCELLANEOUS FINISHES

Paint door frames	349	LF	0.20	70	1.50	524	1.70	594
Miscellaneous painting to ducts, conduits, etc.	1	LOT	500.00	500	2500.00	2,500	3000.00	3,000
Masking tapes, tarps, etc. for painting	1	LOT	5500.00	5,500	7500.00	7,500	13000.00	13,000

TOTAL ESTIMATED COST:	\$ 150,314	\$ 257,022	\$ 407,336
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HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

TOILET ACCESSORIES

Sanitary napkin dispensers	2	EA	275.00	550	70.00	140	345.00	690
Sanitary napkin disposals	7	EA	68.00	476	25.00	175	93.00	651
Toilet paper dispensers	13	EA	32.00	416	20.00	260	52.00	676
Toilet seat cover dispensers	13	EA	45.00	585	25.00	325	70.00	910
Paper towel dispensers/waste receptacles	6	EA	260.00	1,560	75.00	450	335.00	2,010
36"x60" mirrors	2	EA	325.00	650	95.00	190	420.00	840
36"x96" mirrors	2	EA	600.00	1,200	145.00	290	745.00	1,490
24"x36" mirrors	8	EA	128.00	1,024	50.00	400	178.00	1,424
Soap dispensers	8	EA	48.00	384	18.00	144	66.00	528
Toilet grab bar sets	4	EA	105.00	420	70.00	280	175.00	700
Shower grab bar sets	2	EA	130.00	260	90.00	180	220.00	440
Swim suit spinners	2	EA						With Element 101
Electric hand/hair dryers	4	EA	280.00	1,120	85.00	340	365.00	1,460
Shower curtains and rods, 96"	2	EA	95.00	190	40.00	80	135.00	270

HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

TOILET ACCESSORIES (Continued)

Robe/towel hooks/pegs	30	EA	12.60	378	15.00	450	27.60	828
Baby changing stations	2	EA	269.00	538	60.00	120	329.00	658
Utility shelf with mop/broom holder	1	EA	68.00	68	35.00	35	103.00	103
15"x15"x72" lockers, solid plastic	15	EA	220.00	3,300	60.00	900	280.00	4,200
12"x12"x36" (2) tier lockers, solid plastic	218	EA	265.00	57,770	75.00	16,350	340.00	74,120
Blank panels	12	EA	65.00	780	40.00	480	105.00	1,260
12" deep locker room benches, floor mounted	164	LF	39.50	6,478	20.00	3,280	59.50	9,758
Shoe cubby below benches	176	LF	35.00	6,160	18.00	3,168	53.00	9,328
Vanity tops (2)	18	LF	62.00	1,116	35.00	630	97.00	1,746
Toilet partitions and doors, solid plastic	9	EA	875.00	7,875	290.00	2,610	1165.00	10,485
Toilet partitions and doors, ADA	2	EA	1270.00	2,540	350.00	700	1620.00	3,240
Urinal screens	2	EA	245.00	490	75.00	150	320.00	640

BULLETIN AND MARKER BOARDS, ETC.

Building directory	1	EA	565.00	565	120.00	120	685.00	685
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

BULLETIN AND MARKER BOARDS, ETC. (Continued)

8'0"x4'0" marker board	1	EA	720.00	720	55.00	55	775.00	775
4'0"x4'0" tack boards	4	EA	132.00	528	50.00	200	182.00	728

MISCELLANEOUS

Door signs	20	EA	32.00	640	15.00	300	47.00	940
Miscellaneous graphics/signage	1	LOT	1000.00	1,000	350.00	350	1350.00	1,350
Fire extinguishers, bracket mounted	4	EA	57.00	228	25.00	100	82.00	328
Fire extinguishers, cabinet mounted	4	EA	148.00	592	65.00	260	213.00	852
48" stainless steel corner guards	10	EA	47.00	470	30.00	300	77.00	770
Miscellaneous specialties	1	LOT	1500.00	1,500	500.00	500	2000.00	2,000

TOTAL ESTIMATED COST:				\$ 102,571		\$ 34,312		\$ 136,883
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HMS Project No.: 08011

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

PLUMBING FIXTURES AND EQUIPMENT

Water closets	9	EA	600.00	5,400	265.00	2,385	865.00	7,785
Water closets, ADA	4	EA	660.00	2,640	265.00	1,060	925.00	3,700
Urinals, ADA	3	EA	720.00	2,160	265.00	795	985.00	2,955
Lavatories, counter mounted, ADA	6	EA	455.00	2,730	195.00	1,170	650.00	3,900
Lavatories, wall hung, ADA	2	EA	520.00	1,040	210.00	420	730.00	1,460
Prefabricated 96"x48" shower with single lever mixing valve, ADA	2	EA	2985.00	5,970	475.00	950	3460.00	6,920
Gang shower heads and controls	20	EA	330.00	6,600	150.00	3,000	480.00	9,600
Mop sink, floor mounted, 24"x24"	1	EA	575.00	575	265.00	265	840.00	840
Washing machine connection	1	EA	50.00	50	55.00	55	105.00	105
Eyewash and shower	1	EA	720.00	720	310.00	310	1030.00	1,030
Laundry sink, floor mounted, 48"x24"	1	EA	455.00	455	265.00	265	720.00	720
Tempering valves	4	EA	480.00	1,920	195.00	780	675.00	2,700
Drinking fountains, wall mounted, single height	2	EA	810.00	1,620	265.00	530	1075.00	2,150
Drinking fountain, wall mounted, single height, ADA	1	EA	925.00	925	265.00	265	1190.00	1,190

HMS Project No.: 08011

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

PLUMBING FIXTURES AND EQUIPMENT (Continued)

Hose bibbs	4	EA	58.00	232	65.00	260	123.00	492
Hose bibbs, non-frost	4	EA	95.00	380	112.00	448	207.00	828
Floor drains	8	EA	97.75	782	110.00	880	207.75	1,662
Deck drains	4	EA	125.00	500	110.00	440	235.00	940
400 gallon hot water generator, double wall, 1,000 GPH recovery	1	EA	22500.00	22,500	1400.00	1,400	23900.00	23,900
Expansion tank, 11.25 gallon	1	EA	435.00	435	110.00	110	545.00	545
2 GPM, 15'0" head, 110 watt domestic water pumps	2	EA	565.00	1,130	173.00	346	738.00	1,476
2 1/2" diameter, 60 GPM peak flow rate water meter with remote readout (install only)	1	EA	50.00	50	242.00	242	292.00	292
6" diameter steel, grooved joint water pipe (from existing mechanical room)	290	LF	33.00	9,570	43.85	12,717	76.85	22,287
Plumbing rough-in to fixtures	53	EA	650.00	34,450	950.00	50,350	1600.00	84,800
Plumbing rough-in to drains, bibbs, etc.	26	EA	320.00	8,320	515.00	13,390	835.00	21,710
Insulation to water piping	1	LOT	3500.00	3,500	5500.00	5,500	9000.00	9,000

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

PLUMBING FIXTURES AND EQUIPMENT (Continued)

Miscellaneous valves, gauges, water hammer arrestors, etc.	1	LOT	1800.00	1,800	1200.00	1,200	3000.00	3,000
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MISCELLANEOUS

Connection to pool equipment	1	LOT	2700.00	2,700	5000.00	5,000	7700.00	7,700
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Test and disinfect piping	1	LOT	500.00	500	2000.00	2,000	2500.00	2,500
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Premium time	240	HRS			70.00	16,800	70.00	16,800
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SUBTOTAL:				\$ 119,654		\$ 123,333		\$ 242,987
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Subcontractor's Overhead and Profit on Materials	17.00%			20,341				20,341
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Subcontractor's Overhead and Profit on Labor	17.00%					20,967		20,967
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TOTAL ESTIMATED COST:				\$ 139,995		\$ 144,300		\$ 284,295
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HYDRONIC HEATING

1,000 KW electric boiler with controls	1	EA	25200.00	25,200	6650.00	6,650	31850.00	31,850
160 GPM, 25'0" head, 2 HP hydronic pumps	2	EA	3525.00	7,050	630.00	1,260	4155.00	8,310
230 GPM, 105'0" head, 15 HP hydronic pump	1	EA	3850.00	3,850	750.00	750	4600.00	4,600
230 GPM, 105'0" head, 15 HP hydronic pumps with VSD	2	EA	6350.00	12,700	1450.00	2,900	7800.00	15,600
Expansion tank, 34 gallon	1	EA	1370.00	1,370	240.00	240	1610.00	1,610
Glycol	350	GALS	9.25	3,238	2.75	963	12.00	4,201
35.5 MBH semi-recessed ceiling mounted cabinet unit heater	1	EA	1250.00	1,250	410.00	410	1660.00	1,660
13.5 MBH semi-recessed ceiling mounted cabinet unit heater	1	EA	750.00	750	210.00	210	960.00	960
30.7 MBH horizontal unit heaters	4	EA	750.00	3,000	250.00	1,000	1000.00	4,000
3/4" PEX piping for radiant heat (5,992 SF)	2,040	LF	1.30	2,652	1.45	2,958	2.75	5,610
Zone control valves and manifolds for radiant heat	2	EA	690.00	1,380	270.00	540	960.00	1,920

HYDRONIC PIPING

6" diameter piping header	15	LF	45.00	675	70.00	1,050	115.00	1,725
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HMS Project No.: 08011

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HYDRONIC PIPING (Continued)

4" to 2" diameter copper pipe loop	1,040	LF	28.50	29,640	19.30	20,072	47.80	49,712
1 1/2" to 3/4" diameter copper pipe loop	1,200	LF	8.75	10,500	9.90	11,880	18.65	22,380
Connect new pipes to existing	2	EA	25.00	50	65.00	130	90.00	180
4" to 2" diameter valves	24	EA	95.00	2,280	60.00	1,440	155.00	3,720
1 1/2" to 3/4" diameter valves	64	EA	52.00	3,328	50.00	3,200	102.00	6,528
Pressure gauges, thermometers, air vents, etc.	1	LOT	850.00	850	1350.00	1,350	2200.00	2,200
1 1/2" thick insulation to 4" to 2" pipes	1,040	LF	4.20	4,368	5.70	5,928	9.90	10,296
1 1/2" thick insulation to 1 1/2" to 3/4" pipes	1,200	LF	3.70	4,440	5.20	6,240	8.90	10,680

VENTILATION

40,000 CFM air handler with mixing box, filters and 856 MBH heating coil, variable speed supply and return fan	1	EA	153400.00	153,400	31300.00	31,300	184700.00	184,700
15,000 CFM heat recovery unit, variable speed supply and return fans, reheat coils	1	EA	55125.00	55,125	12750.00	12,750	67875.00	67,875
Sound attenuators	1	LOT	6500.00	6,500	2500.00	2,500	9000.00	9,000
Exhaust fan, 7,500 CFM	1	EA	9200.00	9,200	2100.00	2,100	11300.00	11,300

HMS Project No.: 08011

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

Exhaust fan, 750 CFM	1	EA	880.00	880	250.00	250	1130.00	1,130
Exhaust fans, 250 CFM	4	EA	370.00	1,480	135.00	540	505.00	2,020
Mechanical louvers dampers	48	SF	39.50	1,896	15.50	744	55.00	2,640
Galvanized ductwork and hangers	5,000	LBS	3.30	16,500	3.85	19,250	7.15	35,750
Aluminum ductwork and hangers	9,800	LBS	14.45	141,610	7.90	77,420	22.35	219,030
Flexible duct (6" to 14" diameter)	150	LF	3.75	563	5.30	795	9.05	1,358
100 CFM to 500 CFM VAV boxes	12	EA	485.00	5,820	190.00	2,280	675.00	8,100
501 CFM to 1,000 CFM VAV box in duct heating coil	2	EA	610.00	1,220	210.00	420	820.00	1,640
1,200 CFM VAV box in duct heating coil	2	EA	710.00	1,420	250.00	500	960.00	1,920
2,000 CFM VAV box in duct heating coil	2	EA	850.00	1,700	400.00	800	1250.00	2,500
24"x24" ceiling mounted supply air diffusers	24	EA	75.00	1,800	45.00	1,080	120.00	2,880
12"x12" wall mounted supply air diffusers	4	EA	55.00	220	40.00	160	95.00	380
6"x6" ceiling mounted exhaust air grilles	8	EA	28.00	224	20.00	160	48.00	384
8"x8" ceiling mounted exhaust air grilles	10	EA	35.00	350	25.00	250	60.00	600

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

48"x48" return air grilles, ceiling mounted	6	EA	125.00	750	65.00	390	190.00	1,140
12"x12" transfer air grilles	4	EA	62.00	248	40.00	160	102.00	408
96"x30" motor operated damper	1	EA	1550.00	1,550	450.00	450	2000.00	2,000
96"x18" motor operated damper	1	EA	1450.00	1,450	410.00	410	1860.00	1,860
72"x36" motor operated damper	1	EA	1210.00	1,210	350.00	350	1560.00	1,560
2" rigid insulation	1,100	SF	2.00	2,200	1.95	2,145	3.95	4,345
2" duct lining	850	SF	1.60	1,360	1.75	1,488	3.35	2,848
Volume dampers, 0-1 SF	40	EA	44.00	1,760	31.00	1,240	75.00	3,000

CONTROLS

Microprocessor and programming for controls	1	LOT	25000.00	25,000	17500.00	17,500	42500.00	42,500
Direct digital control system	34,813	SF	3.50	121,846	2.95	102,698	6.45	224,544
Thermostats	12	EA	72.00	864	55.00	660	127.00	1,524
Thermostats with wire guard	4	EA	83.00	332	65.00	260	148.00	592

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
082 - HVAC								

MISCELLANEOUS

Test and balance systems	200	HRS			150.00	30,000	150.00	30,000
Commission HVAC systems	1	LOT	25000.00	25,000			25000.00	25,000
Premium time	820	HRS			70.00	57,400	70.00	57,400
SUBTOTAL:				\$ 702,049		\$ 437,621		\$ 1,139,670
Subcontractor's Overhead and Profit on Materials	17.00%			119,348				119,348
Subcontractor's Overhead and Profit on Labor	17.00%					74,396		74,396

TOTAL ESTIMATED COST:				\$ 821,397		\$ 512,017		\$ 1,333,414
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

08 - MECHANICAL 083 - Fire Protection	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
4" diameter fire main	40	LF	30.97	1,239	20.56	822	51.53	2,061
Fire department connection	1	EA	585.00	585	220.00	220	805.00	805
Sprinkler valve riser	1	EA	3250.00	3,250	1835.00	1,835	5085.00	5,085
Wet pipe sprinkler system	34,813	SF	1.90	66,145	2.30	80,070	4.20	146,215
Test and certify system	1	LOT	300.00	300	1700.00	1,700	2000.00	2,000
Sprinkler design fee	1	LOT	6500.00	6,500			6500.00	6,500
Premium time	164	HRS			70.00	11,480	70.00	11,480
SUBTOTAL:				\$ 78,019		\$ 96,127		\$ 174,146
Subcontractor's Overhead and Profit on Materials	17.00%			13,263				13,263
Subcontractor's Overhead and Profit on Labor	17.00%					16,342		16,342
TOTAL ESTIMATED COST:				\$ 91,282		\$ 112,469		\$ 203,751

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
091 - Service and Distribution								
Remote shunt trip switch device mounted in Nema 4 lockable enclosure	1	EA	1850.00	1,850	630.00	630	2480.00	2,480
2,000 amp CT enclosure with meter base	1	EA	9200.00	9,200	3800.00	3,800	13000.00	13,000
Main switchboard, 2,000 amp, 208/120 volt, 3 phase, 4 wire	1	EA	27700.00	27,700	8600.00	8,600	36300.00	36,300
Panel: 225 amp, 277/480 volt, 3 phase, 4 wire, (42) circuit panels	6	EA	2875.00	17,250	1330.00	7,980	4205.00	25,230
3 1/2" diameter GRC conduit	150	LF	23.50	3,525	20.00	3,000	43.50	6,525
1" diameter GRC conduit	75	LF	5.30	398	7.40	555	12.70	953
2" diameter IM conduit	350	LF	5.30	1,855	9.60	3,360	14.90	5,215
1 1/4" diameter IM conduit	80	LF	3.55	284	7.35	588	10.90	872
3/4" diameter IM conduit	50	LF	1.85	93	5.35	268	7.20	361
500 KCMIL conductors	600	LF	18.25	10,950	3.75	2,250	22.00	13,200
3/0 XHHW copper conductors	1,400	LF	6.25	8,750	2.40	3,360	8.65	12,110
#2 XHHW copper conductors	240	LF	2.90	696	1.34	322	4.24	1,018
#8 XHHW copper conductors	150	LF	0.80	120	0.75	113	1.55	233
#12 XHHW copper conductors	120	LF	0.39	47	0.55	66	0.94	113

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
091 - Service and Distribution								
#1/0 bare copper ground	300	LF	3.15	945	1.50	450	4.65	1,395
#2/0 bare copper ground wire	1,000	LF	3.95	3,950	1.67	1,670	5.62	5,620
#6 bare copper ground wire	450	LF	0.85	383	0.60	270	1.45	653
#12 bare copper ground wire	60	LF	0.20	12	0.47	28	0.67	40
5/8"x10'0" copper clad ground rods	4	EA	55.00	220	112.00	448	167.00	668
Ground rod connections	4	EA	13.75	55	42.50	170	56.25	225
Equipment and building steel/water pipe connections	16	EA	8.50	136	27.50	440	36.00	576
Test and certify systems	1	LOT	250.00	250	1750.00	1,750	2000.00	2,000
Premium time	90	HRS			75.00	6,750	75.00	6,750
SUBTOTAL:				\$ 88,669		\$ 46,868		\$ 135,537
Subcontractor's Overhead and Profit on Materials	17.00%			15,074				15,074
Subcontractor's Overhead and Profit on Labor	17.00%					7,968		7,968
TOTAL ESTIMATED COST:				\$ 103,743		\$ 54,836		\$ 158,579

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

FIXTURES

Note: All light fixtures with electronic ballasts.

8" square recessed ceiling mounted compact fluorescent downlights, 2-lamp	80	EA	113.00	9,040	80.00	6,400	193.00	15,440
8'0" long super recessed linear fluorescent with continuous flange, 2-lamp	10	EA	335.00	3,350	130.00	1,300	465.00	4,650
12'0" long super recessed linear fluorescent with continuous flange, 3-lamp	8	EA	485.00	3,880	210.00	1,680	695.00	5,560
12'0" long wall mounted direct/indirect linear fluorescent fixtures, 3-lamp	10	EA	535.00	5,350	225.00	2,250	760.00	7,600
4'0" long wall/slot recessed perimeter fixtures, 2-lamp	40	EA	195.00	7,800	90.00	3,600	285.00	11,400
4'0" long suspended ceiling mounted standard width strip fixtures, 2-lamp	40	EA	125.00	5,000	80.00	3,200	205.00	8,200
8'0" long suspended ceiling mounted wet location gasketed strip fixtures, 2-lamp	32	EA	190.00	6,080	130.00	4,160	320.00	10,240
Light truss system suspended from structure, SPI light truss, (2) 400 watt lamp indirect structural lighting system, metal halide asymmetric lighting module	24	EA	800.00	19,200	150.00	3,600	950.00	22,800

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

FIXTURES (Continued)

Light truss system suspended from structure, SPI light truss, 2-lamp indirect structured lighting system, 4-lamp compact fluorescent forward throw lighting module	24	EA	400.00	9,600	155.00	3,720	555.00	13,320
100 watt metal halide wall mounted exterior fixtures	8	EA	390.00	3,120	125.00	1,000	515.00	4,120
Exit signs, wall/ceiling mounted	6	EA	142.00	852	80.00	480	222.00	1,332
Double head emergency lights	10	EA	165.00	1,650	90.00	900	255.00	2,550
Special pool lighting allowance	1	LOT	25000.00	25,000	10000.00	10,000	35000.00	35,000

DEVICES, ETC.

30 amp, 6 pole mechanically held lighting contactors	2	EA	950.00	1,900	250.00	500	1200.00	2,400
Single pole switches	8	EA	12.00	96	47.00	376	59.00	472
Three-way switches	4	EA	28.00	112	55.00	220	83.00	332
Occupancy sensors	8	EA	107.00	856	95.00	760	202.00	1,616
Duplex receptacles	50	EA	13.00	650	47.00	2,350	60.00	3,000
Duplex receptacles, GFCI	32	EA	29.00	928	45.00	1,440	74.00	2,368

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

DEVICES, ETC. (Continued)

Duplex receptacles, GFCI, weatherproof	4	EA	33.00	132	58.00	232	91.00	364
Double duplex receptacles	12	EA	28.00	336	45.00	540	73.00	876
Double duplex receptacles, GFCI	10	EA	38.00	380	65.00	650	103.00	1,030
Special purpose outlets	6	EA	65.00	390	80.00	480	145.00	870
Junction boxes	24	EA	5.50	132	13.50	324	19.00	456
Fractional single phase motor connections	12	EA	18.00	216	55.00	660	73.00	876
1 HP to 5 HP three phase motor connections	5	EA	70.00	350	135.00	675	205.00	1,025
7 1/2 HP to 15 HP three phase motor connections	3	EA	140.00	420	205.00	615	345.00	1,035
Connections to pool equipment	1	LOT	2500.00	2,500	5000.00	5,000	7500.00	7,500
Thermal overload switches	12	EA	30.00	360	50.00	600	80.00	960
Motor starter/disconnect switches, large	1	EA	1270.00	1,270	520.00	520	1790.00	1,790
Motor starter/disconnect switches, medium	2	EA	840.00	1,680	310.00	620	1150.00	2,300
Motor starter/disconnect switches, small	6	EA	325.00	1,950	150.00	900	475.00	2,850
1" diameter IM conduit	650	LF	2.55	1,658	6.60	4,290	9.15	5,948

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

DATE: 4/20/2009

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

DEVICES, ETC. (Continued)

3/4" diameter IM conduit	1,520	LF	1.85	2,812	5.35	8,132	7.20	10,944
1/2" diameter IM conduit	2,350	LF	1.65	3,878	4.80	11,280	6.45	15,158
1" diameter conduit, sealtite	90	LF	4.57	411	6.84	616	11.41	1,027
3/4" diameter conduit, sealtite	110	LF	3.35	369	4.80	528	8.15	897
1/2" diameter conduit, sealtite	150	LF	2.20	330	3.45	518	5.65	848
#6 XHHW copper conductors	2,960	LF	1.19	3,522	0.93	2,753	2.12	6,275
#8 XHHW copper conductors	6,520	LF	0.79	5,151	0.75	4,890	1.54	10,041
#10 XHHW copper conductors	9,400	LF	0.58	5,452	0.60	5,640	1.18	11,092

MISCELLANEOUS

Test and tag fixtures	1	LOT	300.00	300	2700.00	2,700	3000.00	3,000
Premium time	220	HRS			75.00	16,500	75.00	16,500

SUBTOTAL: \$ 138,463 \$ 117,599 \$ 256,062

Subcontractor's Overhead and Profit on Materials 17.00% 23,539 23,539

Subcontractor's Overhead and Profit on Labor 17.00% 19,992 19,992

TOTAL ESTIMATED COST: **\$ 162,002 \$ 137,591 \$ 299,593**

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

FIRE ALARM (ADDRESSABLE SYSTEM)

Tie into existing fire alarm control panel	1	EA	250.00	250	750.00	750	1000.00	1,000
Fire alarm annunciator panel	1	EA	1120.00	1,120	750.00	750	1870.00	1,870
Control modules	2	EA	460.00	920	220.00	440	680.00	1,360
Fire pull stations	6	EA	62.00	372	78.00	468	140.00	840
Smoke detectors	16	EA	123.00	1,968	95.00	1,520	218.00	3,488
Duct detectors	2	EA	385.00	770	250.00	500	635.00	1,270
Heat detectors	2	EA	70.00	140	65.00	130	135.00	270
Strobes	16	EA	87.00	1,392	70.00	1,120	157.00	2,512
Horn/strobes	14	EA	132.00	1,848	120.00	1,680	252.00	3,528
Magnetic door holders	4	EA	112.00	448	85.00	340	197.00	788
Sprinkler tamper switch connection	1	EA	15.00	15	45.00	45	60.00	60
Sprinkler flow switch connection	1	EA	15.00	15	45.00	45	60.00	60
3/4" diameter IM conduit	1,300	LF	1.85	2,405	5.35	6,955	7.20	9,360
Wiring	2,600	LF	0.28	728	0.65	1,690	0.93	2,418

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

SECURITY SYSTEM

Contacts and detectors	1	LOT	5000.00	5,000	5000.00	5,000	10000.00	10,000
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TELEPHONE/COMPUTER SYSTEMS

3/4" thick plywood telephone terminal board	216	SF	1.20	259	0.85	184	2.05	443
Telephone equipment	2	EA	450.00	900	150.00	300	600.00	1,200
Racks	2	EA	845.00	1,690	365.00	730	1210.00	2,420
Punchdown blocks	2	EA	145.00	290	120.00	240	265.00	530
Cable management panels	8	EA	420.00	3,360	175.00	1,400	595.00	4,760
48-port patch panels	6	EA	225.00	1,350	150.00	900	375.00	2,250
Plug strips	2	EA	130.00	260	85.00	170	215.00	430
Grounding bars	2	EA	120.00	240	55.00	110	175.00	350
RJ-45 4-port combination telephone/data, 4-jacks	4	EA	36.00	144	59.00	236	95.00	380
RJ-45 4-port combination telephone/data, 3-jacks	2	EA	30.00	60	52.00	104	82.00	164
RJ-45 4-port combination telephone/data, 2-jacks	9	EA	25.00	225	45.00	405	70.00	630
RJ-45 4-port combination telephone/data, 1-jack	2	EA	18.00	36	35.00	70	53.00	106

HMS Project No.: 08011

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

TELEPHONE/COMPUTER SYSTEMS (Continued)

2" diameter IM conduit	250	LF	5.30	1,325	9.60	2,400	14.90	3,725
3/4" diameter IM conduit	350	LF	1.85	648	5.35	1,873	7.20	2,521
25-pair telephone cross connection cable	70	LF	1.10	77	0.60	42	1.70	119
100-pair telephone cable	100	LF	2.97	297	6.50	650	9.47	947
50-pair backbone cable	50	LF	1.60	80	3.10	155	4.70	235
Cat 5 cable	1,900	LF	0.30	570	0.70	1,330	1.00	1,900
J-hooks	50	EA	0.50	25	1.25	63	1.75	88

PA/SOUND SYSTEM

Intercom system rack	1	EA	1250.00	1,250	720.00	720	1970.00	1,970
P.A. speakers, ceiling mounted	19	EA	100.00	1,900	80.00	1,520	180.00	3,420
3/4" diameter IM conduit	500	LF	1.85	925	5.35	2,675	7.20	3,600
Wiring	550	LF	0.23	127	0.75	413	0.98	540

TELEVISION

Conduit	1	LOT	500.00	500	500.00	500	1000.00	1,000
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HMS Project No.: 08011

09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ROUGH-IN FOR AUTOMATIC TIMING SCOREBOARD AND JUDGING SYSTEM

4"x4"x6" PVC junction boxes for Colorado timing square	7	EA	35.00	245	60.00	420	95.00	665
12"x12"x4" PVC wall box for Colorado timing square	1	EA	48.00	48	75.00	75	123.00	123
2" diameter Schedule 40 PVC conduit	70	LF	4.20	294	6.00	420	10.20	714
1" diameter Schedule 40 PVC conduit	130	LF	2.50	325	4.00	520	6.50	845

MISCELLANEOUS

Grounding system	1	LOT	2500.00	2,500	2500.00	2,500	5000.00	5,000
Test and certify systems	1	LOT	300.00	300	2800.00	2,800	3100.00	3,100
Premium time	102	HRS			75.00	7,650	75.00	7,650

SUBTOTAL:				\$ 37,641		\$ 53,008		\$ 90,649
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Subcontractor's Overhead and Profit on Materials	17.00%			6,399				6,399
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Subcontractor's Overhead and Profit on Labor	17.00%					9,011		9,011
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TOTAL ESTIMATED COST:				\$ 44,040		\$ 62,019		\$ 106,059
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

10 - EQUIPMENT	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
101 - Fixed and Movable Equipment								

POOL EQUIPMENT

Clocks	4	EA	150.00	600	55.00	220	205.00	820
Scoreboard	1	EA	8500.00	8,500	1550.00	1,550	10050.00	10,050
Miscellaneous floor anchors and inserts	1	LOT	500.00	500	1500.00	1,500	2000.00	2,000
1 meter diving board	1	EA	5500.00	5,500	520.00	520	6020.00	6,020
3 meter diving board	1	EA	9350.00	9,350	2400.00	2,400	11750.00	11,750
Bolson chair lifts	2	EA	7500.00	15,000	2500.00	5,000	10000.00	20,000
Handicapped accessible seats enclosures	4	EA	200.00	800	100.00	400	300.00	1,200
Lifeguard chair	1	EA	1800.00	1,800	500.00	500	2300.00	2,300
Judging and timing equipment	1	LOT	4500.00	4,500	100.00	100	4600.00	4,600
Target lane and starter blocks	8	EA	1500.00	12,000	500.00	4,000	2000.00	16,000
36" diameter x 72'0" curved pool slide complete with support structure	1	LOT	72500.00	72,500	12500.00	12,500	85000.00	85,000

MISCELLANEOUS

Tiered bleachers (250 SF)	1	LOT	25000.00	25,000	4500.00	4,500	29500.00	29,500
Stainless steel pool ladders	4	EA	650.00	2,600	220.00	880	870.00	3,480

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

10 - EQUIPMENT	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
101 - Fixed and Movable Equipment								

MISCELLANEOUS (Continued)

Removable stainless steel guardrail at bleachers	96	LF	165.00	15,840	50.00	4,800	215.00	20,640
3'0" stainless steel separation gates	2	EA	580.00	1,160	215.00	430	795.00	1,590
Swimsuit washers	2	EA	850.00	1,700	150.00	300	1000.00	2,000
Swimsuit spinners	2	EA	1400.00	2,800	150.00	300	1550.00	3,100

TOTAL ESTIMATED COST:	\$ 180,150	\$ 39,900	\$ 220,050
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

10 - EQUIPMENT	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
102 - Furnishings								
Entry mats and frames (2)	92	SF	22.50	2,070	2.70	248	25.20	2,318
Vertical window blinds - exterior	700	SF	8.25	5,775	1.60	1,120	9.85	6,895
Vertical window blinds - interior	272	SF	8.25	2,244	1.60	435	9.85	2,679
Loose furniture and furnishings	1	LOT					Separate Contract (FFE)	
TOTAL ESTIMATED COST:				\$ 10,089		\$ 1,803		\$ 11,892

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

11 - SPECIAL CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MAIN LAP POOL

Concrete pool tank complete with finishes, filtration and circulation equipment, pumps, drains, etc. (cost based on Kodiak pool as proposed by Associate Pool Builders, Inc.)

6,752	SF	210.00	1,417,920	115.00	776,480	325.00	2,194,400
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LEISURE/THERAPEUTIC POOL

Pool construction, finishes, equipment, etc.

3,150	SF	148.00	466,200	75.00	236,250	223.00	702,450
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TOTAL ESTIMATED COST:	\$ 1,884,120	\$ 1,012,730	\$ 2,896,850
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KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MOBILIZATION/DEMOBILIZATION

Staging areas	1	LOT	3500.00	3,500	2000.00	2,000	5500.00	5,500
Mobilization	1	LOT	2000.00	2,000	5500.00	5,500	7500.00	7,500
Freight (barge) - building only, pool with Element 101	520	TONS	355.00	184,600	55.00	28,600	410.00	213,200
Labor contract filing fee	1	LOT	5000.00	5,000			5000.00	5,000
Demobilization	1	LOT	2000.00	2,000	4000.00	4,000	6000.00	6,000

OPERATION COSTS

Building permits	1	LOT							By Owner
Plan check fees	1	LOT	7500.00	7,500			7500.00	7,500	
Project manager (part-time)	8	MOS	100.00	800	6700.00	53,600	6800.00	54,400	
Supervision	14	MOS	150.00	2,100	12000.00	168,000	12150.00	170,100	
Quality controls (part time)	14	MOS	100.00	1,400	5200.00	72,800	5300.00	74,200	
Field engineering	3	MOS	200.00	600	9000.00	27,000	9200.00	27,600	
Surveying	1	LOT							With Site
Expediting	13	MOS	250.00	3,250	4500.00	58,500	4750.00	61,750	

HMS Project No.: 08011

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

OPERATION COSTS (Continued)

Field office, staff and supplies	14	MOS	1850.00	25,900	3000.00	42,000	4850.00	67,900
Time clerk/accounting	14	MOS	250.00	3,500	2700.00	37,800	2950.00	41,300
Temporary utilities	14	MOS	850.00	11,900	150.00	2,100	1000.00	14,000
Daily loading and unloading	14	MOS	200.00	2,800	1300.00	18,200	1500.00	21,000
Communications	14	MOS	450.00	6,300			450.00	6,300
Heat/light/water	14	MOS	1750.00	24,500	150.00	2,100	1900.00	26,600
Construction equipment, trucks, hoisting, etc.	14	MOS	5100.00	71,400	550.00	7,700	5650.00	79,100
Tools and consumables	14	MOS	1700.00	23,800			1700.00	23,800
Fuel for equipment	14	MOS	2500.00	35,000			2500.00	35,000
Miscellaneous materials testing (rest with Elements 02 and 03)	1	LOT	7500.00	7,500			7500.00	7,500
Videos, photographs, schedules, manuals, etc.	1	LOT	1500.00	1,500	5500.00	5,500	7000.00	7,000
Training	40	HRS			125.00	5,000	125.00	5,000
Temporary protection, barriers, etc.	1	LOT	1500.00	1,500	3500.00	3,500	5000.00	5,000
General clean-up/snow removal	14	MOS	200.00	2,800	1600.00	22,400	1800.00	25,200

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

OPERATION COSTS (Continued)

Final clean-up	1	LOT	1000.00	1,000	6500.00	6,500	7500.00	7,500
Premium time (prime)	3,150	HRS			56.00	176,400	56.00	176,400
Per diem (Imported crew)	2,570	DAYS	125.00	321,250			125.00	321,250
Travel costs	48	RT	675.00	32,400			675.00	32,400
SUBTOTAL:				\$ 785,800		\$ 749,200		\$ 1,535,000
Home Office	3.25%							370,026
Overhead and Profit	8.50%							999,212
Bonds	1.15%							146,678
Insurances	1.25%							161,267

TOTAL ESTIMATED COST:	\$ 3,212,183
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HMS Project No.: 08011

13 - CONTINGENCIES	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

131 - ESTIMATOR'S CONTINGENCY

The estimator's allowance for architectural and engineering requirements that are not apparent at an early level of design documentation

15.00%

\$ 1,959,389

132 - ESCALATION CONTINGENCY

The allowance for escalation from the date of estimate to the start of construction (spring 2011) at the rate of 5.00% (38 months)

15.83%

\$ 2,377,980

TOTAL ESTIMATED COST:

\$ 4,337,369

KETCHIKAN GATEWAY BOROUGH AQUATIC CENTER
 KETCHIKAN, ALASKA
 CONCEPTUAL DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 08011

OPTION 1 Reduce Building and Pool Sizes	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Reduce building size	-6,166	SF	54.50	-336,047	34.50	-212,727	89.00	-548,774
Reduce lap pool size	-2,798	SF	158.00	-442,084	86.00	-240,628	244.00	-682,712
Reduce leisure pool size	-230	SF	110.00	-25,300	56.00	-12,880	166.00	-38,180
SUBTOTAL:								-\$ 1,269,666
General Conditions, Overhead and Profit	27.00%							-342,810
Estimator's Contingency	15.00%							-241,871
Escalation	15.83%							-293,543
TOTAL ESTIMATED COST:								-\$ 2,147,890

HMS Project No.: 08011

OPTION 2 Upgrade Controls in Existing Recreation Center	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

Escalation	15.83%							87,882
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TOTAL ESTIMATED COST:	\$ 643,046
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