

Emily Deach

Subject: 8A. Approval of Ore Peninsula Redevelopment Project Piling Quote
Attachments: Pile pre Procurement 04182023.pdf; pile procurement 4.19.2023.pdf

Emily & Brad,

It is KPFF's recommendation to pre-procure piles for the critical portions of the project due to continued procurement issues in the current industry.

The piles in the attached list incorporate a comprehensive list of the piles we recommend purchasing now. The current bid schedule for the overall project has the contractors likely getting approved and under contract with MOS in July. This would mean the Contractors would be placing their pile orders in August 2023 and not have enough lead time to procure, coat and ship the needed piles to Skagway by November 1st.

The cruise dock piles are 24" diameter, a more common size and shorter lengths, we are not as concerned about these piles so we have included them in the list as optional.

The plan will be to set the order in May after the test pile program is complete. Then the contractor for the overall project receive the piles when they are ready to pickup in the late summer/fall. The contractor will be responsible for splicing them together and shipping them to Skagway.

Thank you,

Ed DeBroeck, PE, DBIA | KPFF

Associate

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PRE PROCURED - PILE SCHEDULE												
PILE	OD	WALL THK	PILE CUT- OFF ELEV	DESIGN PILE TIP ELEV	MAX ASSUMED OVERDRIVE	TOTAL LENGTH	TOTAL Weight	WEIGHT COST	COATED LENGTH	COATED AREA	COATED AREA COST	BATTER
	[in]	[in]	[ft - MLLW]	[ft - MLLW]	[ft]	[ft]	[lb.]	[\$]	[ft]	[SQ/ft]	[\$]	
DOLPHIN 1												
1	48	1	22.5	-202	10	234	117,569	\$ 146,961	194	2437	\$ 19,493	N/A
2	48	1	22.5	-223	10	268	134,651	\$ 168,314	188	2361	\$ 18,890	3:1
3	48	1	22.5	-227	10	272	136,661	\$ 170,826	192	2412	\$ 19,292	3:1
4	48	1	22.5	-240	10	286	143,695	\$ 179,619	206	2587	\$ 20,699	3:1
5	48	1	22.5	-246	10	292	146,710	\$ 183,387	212	2663	\$ 21,302	3:1
6	48	1	22.5	-244	45	325	163,290	\$ 204,112	245	3077	\$ 24,618	3:1
DOLPHIN 2												
7	42	1	22.5	-154	16	192	84,152	\$ 105,190	170	1868	\$ 14,946	N/A
8	42	1	22.5	-179	39	251	110,011	\$ 137,513	183	2011	\$ 16,089	3:1
9	42	1	22.5	-183	10	226	99,054	\$ 123,817	164	1802	\$ 14,419	3:1
10	42	1	22.5	-219	13	267	117,023	\$ 146,279	181	1989	\$ 15,914	3:1
11	42	1	22.5	-204	10	248	108,696	\$ 135,870	188	2066	\$ 16,529	3:1
12	42	1	22.5	-208	40	282	123,598	\$ 154,497	212	2330	\$ 18,639	3:1
DOLPHIN 3												
13	42	1	22.5	-135	24	189	82,837	\$ 103,546	151	1660	\$ 13,283	3:1
14	42	1	22.5	-158	10	200	87,658	\$ 109,573	138	1517	\$ 12,139	3:1
15	42	1	22.5	-168	10	210	92,041	\$ 115,051	152	1671	\$ 13,371	3:1
16	42	1	22.5	-175	10	218	95,547	\$ 119,434	164	1803	\$ 14,426	3:1
17	42	1	22.5	-172	10	215	94,232	\$ 117,790	165	1814	\$ 14,514	3:1
CRUISE DOCK FLOAT GUIDE PILES												
18	36	1	41.5	-104	10	160	59,821	\$ 74,776	100	942	\$ 7,540	4:1
19	36	1	41.5	-104	10	160	59,821	\$ 74,776	100	942	\$ 7,540	4:1
20	36	1	41.5	-85	10	140	52,493	\$ 65,617	81	763	\$ 6,107	4:1
21	36	1	41.5	-85	10	140	52,493	\$ 65,617	81	763	\$ 6,107	4:1
22	36	1	42.5	-110	35	188	70,153	\$ 87,691	128	1206	\$ 9,651	N/A
23	36	1	42.5	-110	35	188	70,153	\$ 87,691	128	1206	\$ 9,651	N/A
24	36	1	42.5	-105	10	158	58,929	\$ 73,661	98	924	\$ 7,389	N/A
25	36	1	42.5	-102	10	155	57,806	\$ 72,258	95	895	\$ 7,163	N/A
26	36	1	42.5	-94	10	147	54,813	\$ 68,516	87	820	\$ 6,560	N/A
27	36	1	42.5	-94	10	147	54,813	\$ 68,516	87	820	\$ 6,560	N/A
28	36	1	42.5	-94	35	172	64,167	\$ 80,208	112	1056	\$ 8,445	N/A
29	36	1	42.5	-95	35	173	64,541	\$ 80,676	112	1056	\$ 8,445	N/A
30	24	0.5	25	-89	15	129	48,089	\$ 60,112	57	358	\$ 2,865	N/A
31	24	0.5	25	-89	15	129	48,089	\$ 60,112	57	358	\$ 2,865	N/A
Subtotal											\$ 3,824,592	
10% Contingency											\$ 382,459	
Total											\$ 4,207,051	
CRUISE DOCK TRESTLE PILES - Optional												
32	24	0.75	25.83	-77	10	113	20,992	\$ 26,240	33	207	\$ 1,659	N/A
33	24	0.75	25.83	-72	10	108	20,060	\$ 25,075	28	176	\$ 1,407	N/A
34	24	0.75	25.83	-67	10	102	19,044	\$ 23,805	23	145	\$ 1,156	N/A
35	24	0.75	25.83	-66	10	101	18,827	\$ 23,534	21	132	\$ 1,056	N/A
36	24	0.75	25.83	-66	10	101	18,827	\$ 23,534	21	132	\$ 1,056	N/A
37	24	0.75	25.83	-78	10	114	21,163	\$ 26,454	34	214	\$ 1,709	N/A
38	24	0.75	25.83	-74	10	109	20,332	\$ 25,415	30	188	\$ 1,508	N/A
39	24	0.75	25.83	-68	10	103	19,287	\$ 24,108	24	151	\$ 1,206	N/A
40	24	0.75	25.83	-66	10	101	18,827	\$ 23,534	21	132	\$ 1,056	N/A
41	24	0.75	25.83	-66	10	101	18,827	\$ 23,534	21	132	\$ 1,056	N/A
42	24	0.75	25.83	-79	10	114	21,321	\$ 26,652	35	220	\$ 1,759	N/A
43	24	0.75	25.83	-75	10	111	20,631	\$ 25,789	31	195	\$ 1,558	N/A
44	24	0.75	22.67	-81	10	113	21,014	\$ 26,267	33	207	\$ 1,659	N/A
45	24	0.75	22.67	-78	10	110	20,551	\$ 25,688	31	195	\$ 1,558	N/A
46	24	0.75	22.67	-103	10	135	25,171	\$ 31,464	36	226	\$ 1,810	N/A
47	24	0.75	22.67	-102	10	134	25,009	\$ 31,262	35	220	\$ 1,759	N/A

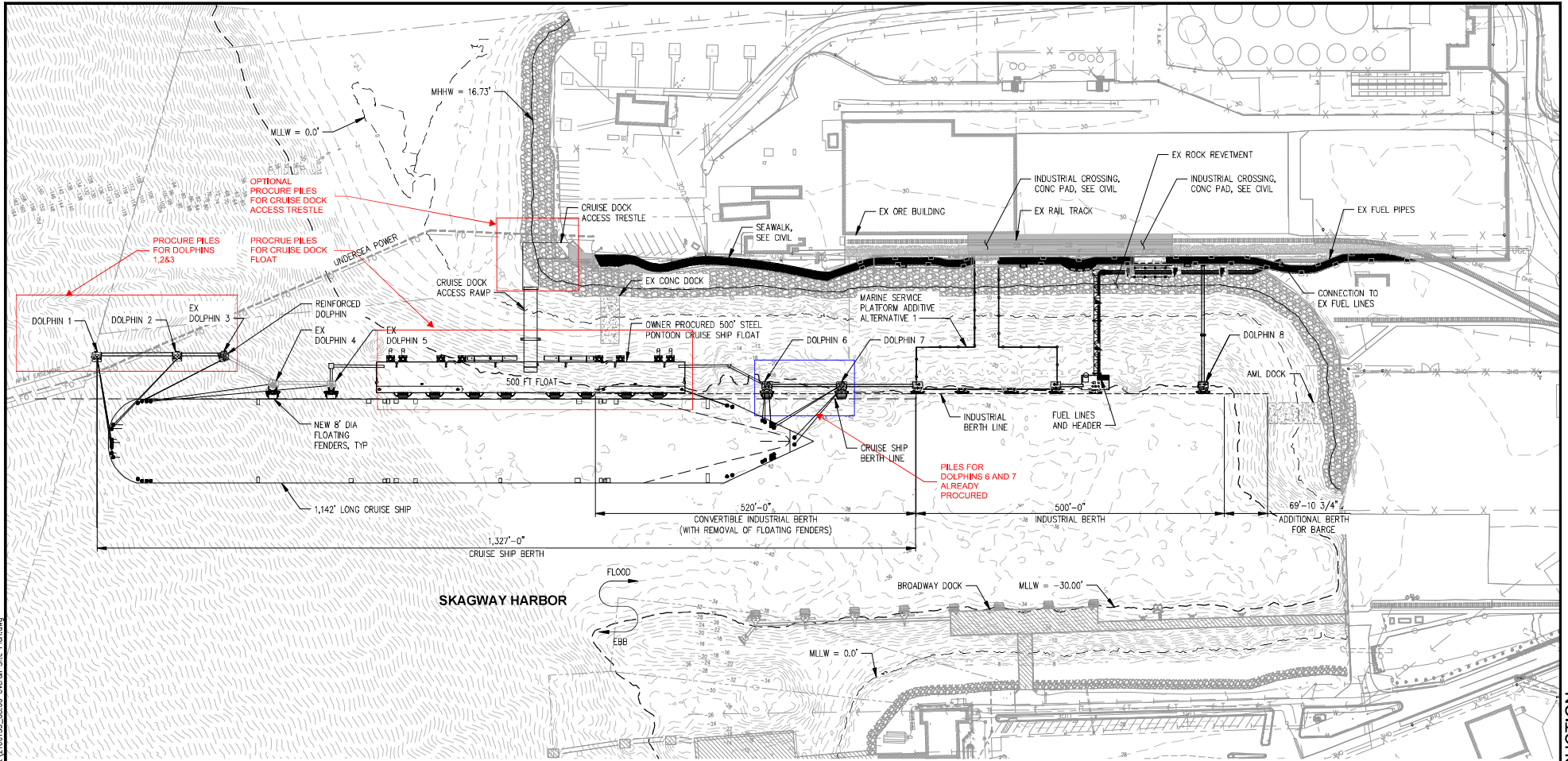
Notes:

Steel cost approx. \$1.25/lb. fabricated and delivered to Pudget Sound Area for pickup
Coating Cost estimated at 8\$/ Square foot

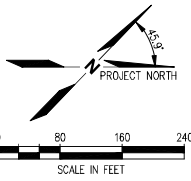
Total Rounded

Subtotal \$ 433,568
10% Contingency \$ 43,357
Total (Cruise Dock) \$ 476,925

TOTAL ALL \$ 4,700,000



OVERALL SITE PLAN
SCALE: 1" = 80'



Plotted: Mar 27, 2023 - 5:15pm dyp Layout: 06.00
 M:\2021\2100135_Skagway Ore Peninsula Multi-use Dock\Drawings\Current\2100135_06.00_Overall Site Planning

kpff

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NO.	DATE	BY	REVISION



ORE PENINSULA REDEVELOPMENT
 SKAGWAY, ALASKA

OVERALL SITE PLAN

DRAWN: JH	PROJECT NO.: 2100135
DESIGN: ED	SCALE: AS SHOWN
CHECKED: RR	DATE: 03/24/2023
DRAWING NO.	G8.00
SHEET NO.	OF

90% DESIGN - NOT FOR CONSTRUCTION