

Attachment A Life Cycle Cost Analysis

**SOUTHWEST OREGON REGIONAL AIRPORT
PAVEMENT DESIGN
ECONOMIC ANALYSIS**

Alternative 1 - Flexible Pavement				
Year	Description	Cost, \$/SY	Present Worth Factor, -0.3%	Present Worth
0	Construction	\$ 51.04	1.0000	\$ 51.04
1			1.0030	\$ -
2			1.0060	\$ -
3			1.0091	\$ -
4	Seal Coat/Crack Seal	\$ 2.50	1.0121	\$ 2.53
5			1.0151	\$ -
6			1.0182	\$ -
7			1.0213	\$ -
8	Seal Coat/Crack Seal	\$ 2.50	1.0243	\$ 2.56
9			1.0274	\$ -
10			1.0305	\$ -
11			1.0336	\$ -
12	Seal Coat/Crack Seal	\$ 2.50	1.0367	\$ 2.59
13			1.0398	\$ -
14			1.0430	\$ -
15	Mill and Overlay	\$ 20.19	1.0461	\$ 21.12
16			1.0492	\$ -
17			1.0524	\$ -
18			1.0556	\$ -
19	Seal Coat/Crack Seal	\$ 2.50	1.0587	\$ 2.65
20			1.0619	\$ -
21			1.0651	\$ -
22			1.0683	\$ -
23	Seal Coat/Crack Seal	\$ 2.50	1.0715	\$ 2.68
24			1.0748	\$ -
25			1.0780	\$ -
26			1.0812	\$ -
27	Seal Coat/Crack Seal	\$ 2.50	1.0845	\$ 2.71
28			1.0878	\$ -
29			1.0910	\$ -
30	Reconstruction	\$ 40.38	1.0943	\$ 44.18
31			1.0976	\$ -
32			1.1009	\$ -
33			1.1042	\$ -
34	Seal Coat/Crack Seal	\$ 2.50	1.1076	\$ 2.77
35			1.1109	\$ -
36			1.1142	\$ -
37			1.1176	\$ -
38	Seal Coat/Crack Seal	\$ 2.50	1.1209	\$ 2.80
39			1.1243	\$ -
40			1.1277	\$ -
SUBTOTAL				\$ 137.63
30	Salvage (10/20*\$39.36)	\$ (20.19)	1.1277	\$ (22.77)
38	Salvage (2/4*\$2.50)	\$ (0.63)	1.1277	\$ (0.70)
TOTAL				\$ 114.16

Notes:

1. Salvage Value for Reconstruction (Year 30) is based on assumed life of 20 years.
2. Salvage Value for Seal Coat/Crack Seal (Year 38) is based on assumed life of 4 years.

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Alternative 2 - Portland Cement Concrete				
Year	Description	Cost, \$/SY	Present Worth Factor, -0.3%	Present Worth
0	Construction	\$ 167.50	1.0000	\$ 167.50
1			1.0030	\$ -
2			1.0060	\$ -
3			1.0091	\$ -
4			1.0121	\$ -
5			1.0151	\$ -
6			1.0182	\$ -
7			1.0213	\$ -
8			1.0243	\$ -
9			1.0274	\$ -
10			1.0305	\$ -
11			1.0336	\$ -
12			1.0367	\$ -
13			1.0398	\$ -
14			1.0430	\$ -
15			1.0461	\$ -
16			1.0492	\$ -
17			1.0524	\$ -
18			1.0556	\$ -
19			1.0587	\$ -
20	Slab Replacement 5%	\$ 7.50	1.0619	\$ 7.96
21			1.0651	\$ -
22			1.0683	\$ -
23			1.0715	\$ -
24			1.0748	\$ -
25			1.0780	\$ -
26			1.0812	\$ -
27			1.0845	\$ -
28			1.0878	\$ -
29			1.0910	\$ -
30	Slab Replacement 5%	\$ 7.50	1.0943	\$ 8.21
31			1.0976	\$ -
32			1.1009	\$ -
33			1.1042	\$ -
34			1.1076	\$ -
35			1.1109	\$ -
36			1.1142	\$ -
37			1.1176	\$ -
38			1.1209	\$ -
39			1.1243	\$ -
40			1.1277	\$ -
SUBTOTAL				\$ 183.67
40	Salvage	\$ -	1.1277	\$ -
TOTAL				\$ 183.67

Note:
Salvage value is based on assumed useful life for PCC of 40 years.