

VALUE ENGINEERING PROPOSAL

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DESCRIPTION Reduce Lock Chamber Armor

ORIGINAL DESIGN:

Provide steel wall armor on the entire interior of the lock chamber.
(See Drawing No. 1).

PROPOSED DESIGN:

Provide steel wall armor only across monolith joints.
(See Drawing No. 2).

ADVANTAGES:

First cost reduction.

DISADVANTAGES:

None known.

JUSTIFICATION:

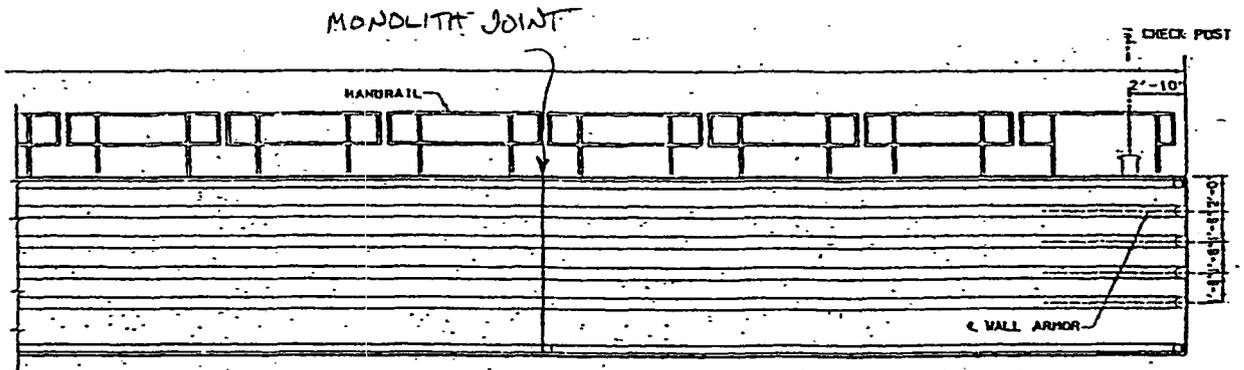
New locks, Mel Price as an example, have installed chamber wall armor only across monolith (and expansion) joints where edge spalling from longitudinal rubbing could occur. No rubbing damage has occurred on the heavily used Mel Price lock chamber walls as the design appears to work well.

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DRAWING NO. 1 (CURRENT DESIGN)



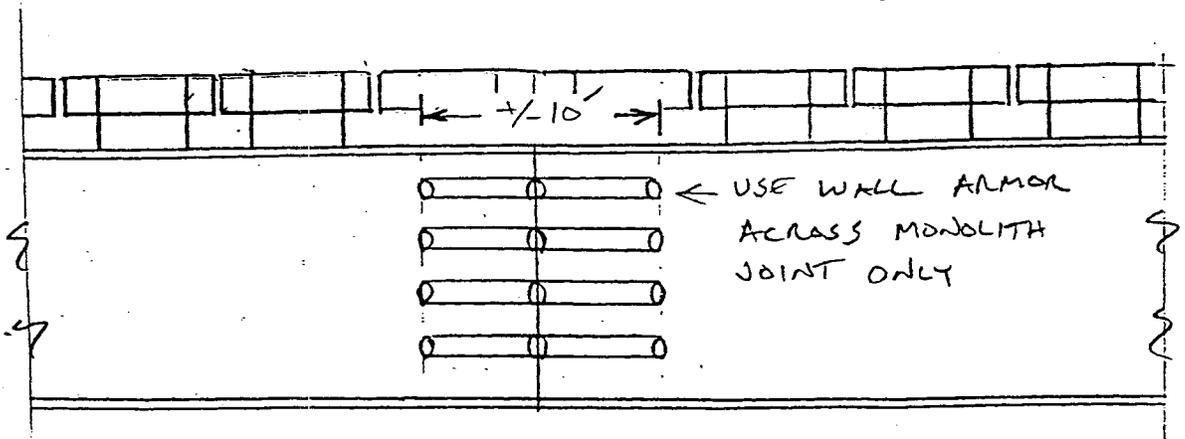
CURRENT DESIGN

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DRAWING NO. 2 (PROPOSED DESIGN)



PROPOSED CHANGE

COST ESTIMATE WORKSHEET					
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DELETIONS					
	ITEM	UNITS	QUANTITY	UNIT COST	TOTAL
	80% +/- of Current Steel				\$0
	Structural Steel	LBS	2,040,000	\$1.13	\$2,305,200
	Sandblasting	FT	12,400	\$1.88	\$23,312
	Painting	FT	371,000	\$0.58	\$215,180
					\$0
					\$0
			Total Deletions		\$2,543,692
ADDITIONS					
	ITEM	UNITS	QUANTITY	UNIT COST	TOTAL
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
			Total Additions		\$0
			Net Savings		\$2,543,692
			* Markups 25.00%		\$635,923
			Total Savings		\$3,179,615
* Markups include: Contingency; Escalation; Engineering/Design; and SIOH					