

PORTLAND EXPOSITION-RECREATION CENTER
FINAL TABULATION RE-BID REVISIONS

January 21, 1959

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PART I - ITEMS INDEPENDENT OF ROOF REDESIGN

ORIGINAL SELECTED SAVINGS INCLUDING PROGRAM REVISIONS

Revision Item: Architectural	Selected Saving	Achieved Saving	Comments
A. <u>Curtain Wall Revisions</u>			
1. Alternate "M"	\$ 10,000.	\$ 10,000.	
3. W-2 and W-4 alloy delete anodize-caustic etch only	3,500.	3,500.	
6. 1-year wall guarantee in lieu of 5-year	4,000.	4,000.	
C. <u>Arena Curtain Revisions</u>			
1. Delete lining sheet	1,500.	1,500.	
6. Valance in lieu of full height	1,000.		Transferred to roof redesign related savings
D. <u>Sound Baffle Revision - Suspension Details:</u>	24,000.		Baffles deleted-savings included under roof redesign.
E. <u>Hardware Revisions:</u>			
2. a. Revised Concourse vomitory closers and butts	1,659.	1,659.	
b. Revise push & pull plates	1,525.	1,000.	Less realized on final review.

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Part I - Items Independent of Roof Redesign

Original Selected Savings, Including Program Revisions

Revision Items:	Selected	Achieved	
Architectural	Saving	Saving	Comments

E. Hardware Revisions:--continued

4. Main Entrance & Exit Doors:

a. Revise downward exit devices	\$ 2,149.	\$ 7,000.	Revised to include general revision of all panic devices.
b. Delete SS kick plates	1,000.		Retained by Commission recommendation.
5. Revise hardware finish	5,500.		Review indicated saving not possible.
6. Delete deadlocks on rolling doors, staple and hasp only	51.		Not feasible.

F. Sidewalks:

1. Change thickness from 6" to 4" Exhibit Hall vicinity	2,200.	2,200.	Drives remain extra heavy duty - walks on grade remain heavy duty.
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G. Roofing:

1. Insulation 1-1/2" thick in lieu 2-1/2"	11,800.	11,800.	
2. Asbestos to rag felts	3,900.	3,900.	

H. Parking - Paving:

1. 5" base course, 1" to 3/4" leveling; 2" A. C.	20,700.	20,700.	
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I. Handrails:

1. Sheetmetal in lieu steel sleeves for anchors	1,650.	1,650.	
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J. Inserts:

1. Specifications modified to Std. details	\$ 588.	\$ 588.	
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L. <u>Catwalks</u> - Revised details	13,500.	13,500.	
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N. Concourse Inter. Elevations:

1. Economize on tube and plaster filler motif	2,800.		Desired architectural feature retained.
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S. Rolling Steel Doors:

1. Delete motors	700.		Retained by Commission recommendation.
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U. <u>Delete Plaster</u> - Stairs A-1 and A-2	240.	240.	
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PROGRAM REVISIONS:

B. Delete retaining walls N. and S. access to Exhibit Hall-concrete stairs down slope	40,000.	40,000.	
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C. Delete Court Paving	2,700.	2,700.	
Delete center mall sidewalks and topside Exhibit Hall perimeter sidewalks:	2,900.	2,900.	

Sub-Total - Architectural.		\$128,837.	
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Original Selected Savings, Including Program Revisions

January 21, 1959

Revision Items	Selected	Achieved	
Structural	Saving	Saving	Comments
C. <u>Redesign Exhibit Hall Roof:</u>			
1. Present design revised	\$ 35,000.	\$ 35,000.	
D. Delete mullion cover plates	3,300.	3,300.	
E. Revise crushed rock backfill	4,000.	4,000.	
F. <u>Exterior Concrete Finish</u>			
2. New Plyform in lieu of Plyglaze with sack finish	10,000.	<u>10,000.</u>	
Sub-Total - Structural.....		\$ 52,300.	

Revision Items
Mechanical

A. <u>Roof Sprinklers - Outside</u>			
2. Respace heads	\$ 400.		This and additional saving under Part I. "Additional Savings".
B. Delete electrolytic neutralizers in system:	300.	300.	
D. Revise engine pumper connections	2,400.	2,400.	
E. Delete insulation boiler bases	550.	550.	
F. Delete backing rings - 50% former requirements	700.	700.	

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Part I - Items Independent of Roof Design

Original Selected Savings, Including Program Revisions

January 21, 1959

Revision Items	Selected	Achieved	
Mechanical	Saving	Saving	Comments
G. Revise minimum horsepower requirements of motors	\$ 500.	\$ 500.	
H. Revise insulation on cooling supply and rink run-outs	1,750.	1,750.	
I. Revise specification on trench pipe rollers	150.		Competitively not feasible.
J. Provide straight square catch basins in lieu sloping	300.	300.	
L. Reduce \$9,000. balancing allowance budget (\$6,000.)	3,000.	3,000.	
M. Delete Room non-freeze for ASU 5, 10, 11, 16, 19	650.	700.	
N. Changes to convertors	4,100.	4,100.	
O. Guarantee - Tests - mockups; revise	1,800.	1,200.	Compressor testing to remain, responsibility maintained, monies not retained.
Q. Delete misc. gauges boiler room controls	2,000.	2,000.	
Sub-Total - Mechanical.....		\$ 17,500.	

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Part I - Items Independent of Roof Design

Original Selected Savings, Including Program Revisions

January 21, 1959

Revision Items		Selected	Achieved	Comments
Electrical		Saving	Saving	
A.	Delete house light dimmers	\$ 16,700.		
B.	Delete 48 floor units	3,000.		
C.	Delete Thiatron tubes for 8 dimmer circuits	1,800.		
D.	Delete 16 elipsoidal spots	3,000.		
F.	Delete 6 dimmers	3,000.	\$ 34,000.	Complete redesign confirmed estimate.
G.	Roto-electro - 24 points lieu of 36	5,800.		
H.	Delete 6 special outlets on outside catwalks	600.		
I.	Roto-electro - delete spare space	600.		
J.	Delete assembly room dimmers	4,340.	4,000.	
L.	Reduce number house lights	1,800.	1,800.	
O.	Delete 9 single and 5 double arm parking luminaires	6,600.	7,500.	Revised parking luminaire specification - delete 2 doubles and 7 singles.
P.	Fixture economies	3,000.	3,500.	
R.	Main distribution panel economies	3,600.	4,600.	
	Sub-Total - Electrical		<u>\$ 55,400.</u>	
	NET TOTAL - ORIGINAL SELECTED SAVINGS.....		<u>\$ 254,037.</u>	

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ADDITIONAL REVISIONS DURING DEVELOPMENT

<u>Revision Item</u>	<u>Add</u>	<u>Deduct</u>
A. Provide closers all corridor doors	\$ 700.	
B. Revise Exhibit Hall doors - Class "D"		\$ 4,400.
C. Window Wall Revisions:		
1. Straight mullions		8,000.
2. Increase vertical module		15,000.
3. Increase height vestibule	2,000.	
D. General revisions to plan - commissary area		2,200.
E. Engineer's office - delete relites		800.
F. Add sliding doors at Memorial Chapel	1,000.	
G. Delete galvanized rolling steel doors		100.
H. Exhibit Hall Girders, increase depth 6"		5,000.
I. Add elevator call and automatic control	200.	
J. Revision to Concourse framing over N. E. corner	10,000.	
K. Revise specification - exit alarm devices		1,000.
L. Add bulk gasoline tank and pump	1,200.	
M. Revise roof sprinkler details		5,000.
N. Revise sound attenuation 2" to 1/2"		2,500.

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Part I - Items Independent of Roof Design

Additional Revisions During Development

January 21, 1959

<u>Revision Item</u>	<u>Add</u>	<u>Deduct</u>
O. Add adapters for std. house lights to ceiling slope	\$ 280.	
P. Misc. Wiring Economies		\$ 750.00
Net Total Savings - Additional Revisions during Development:		\$ 29,370.
Net Total - Original Selected Savings:		254,037.
Total Savings - Independent Roof Redesign		\$ 283,407.
Overhead and profit at 7%		19,800.
Total Savings - Independent of Roof Redesign.....		<u>\$ 303,207.</u>

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WOOD DESIGN OPTION

	<u>Add</u>	<u>Deduct</u>
1. Roof redesign-structural economies in material, fabrication, erection		\$ 364,000.
2. Reduced building height and facia substitution		85,000.
3. Mullions shortened		5,000.
4. Arena curtain savings		20,000.
5. Delete sound baffles		42,000.
6. Add suspended ceiling	\$ 82,000.	
Net Savings - Wood Roof Design		\$ 434,000.
Overhead and profit at 7%		<u>31,000.</u>
Total Savings		\$ 465,000.
Less allowance sprinkler high-pressure line		<u>35,000.</u>
Total Wood Roof Savings.....		<u><u>\$ 430,000.</u></u>

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STEEL DESIGN OPTION

	<u>Add</u>	<u>Deduct</u>
1. Roof redesign - structural economies in material fabrication and erection		\$ 217,000.
2. Reduced building height and facia substitution		85,000.
3. Mullions shortened		5,000.
4. Less automatic sprinklers:		
a. 2 rows at roof		70,000.
b. Concourse		15,000.
5. Delete roof insulation		25,000.
6. Arena curtain savings		20,000.
7. Delete sound baffles		42,000.
8. Add suspended ceiling	<u>\$ 82,000.</u>	
Net Savings - Steel Roof Design		\$ 397,000.
Overhead and profit at 7%		<u>28,000.</u>
Total Steel Roof Savings.....		<u><u>\$ 425,000.</u></u>

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PORTLAND EXPOSITION-RECREATION CENTER

SUMMARY OF RE-BID ESTIMATE

January 21, 1959

BASIC BID OF OCTOBER 8, 1959:

\$ 6, 223, 746.

A. Wood:

1. Savings independent of roof redesign \$ 303, 207.

2. Roof redesign economies 430, 000. 733, 207.

Estimate Basic Re-Bid - Wood \$ 5, 490, 539.

BASIC BID OF OCTOBER 8, 1959:

\$ 6, 223, 746.

B. Steel:

1. Savings independent of roof redesign \$ 303, 207.

2. Roof redesign economies 425, 000. 728, 207.

Estimate Basic Re-Bid - Steel \$ 5, 495, 539.

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