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## **Executive Summary**

In March 2000, Alberta Infrastructure engaged Building Science Specialists to evaluate the condition of 21 schools within the Calgary Board of Education. A standardized form, developed by Alberta Infrastructure and supplied to the evaluation team by the regional coordinator was used to document the condition and recommendations.

The original two-storey building was constructed in 1965. Minor renovations to increase the size of the library have been completed.

The original building is constructed of concrete slab on grade. The walls are precast panels with precast T's as second floor and roof structure. Back up walls are concrete block with brick exterior or exposed aggregate. Interior walls are concrete block bearing walls. Roofs are flat on deep precast concrete T's.

## **Summary of Observations and Recommendations**

The school jurisdiction has a roof replacement program. No reports are available for the roof and further investigation is required. The presence of hazardous materials in the building is expected in piping elbow insulation and the boiler insulation and some interior finishes. These issues are dealt with as the jurisdiction undertakes upgrading. The costs associated with removing hazardous materials have not been included in any of the costing.

## **Architectural**

The exterior of the building is finished in brick or exposed aggregate. Sitework including repaving is required. Some painting is required to exposed concrete. Handicapped accessibility must be addressed. Floor finish replacement is required in some areas. Some additional architectural work is required to accommodate the recommended mechanical and electrical renovations, a cash allowance is included.

### **Mechanical**

The heating plant is original to the building and requires replacement. Back flow prevention is required. The ventilation system requires upgrading. A new hot water tank is required.

### **Electrical**

Additional exterior lighting is required. A new fire alarm system with exit lights connected to the emergency power system is required. Upgrade fluorescent lightings throughout to T-8's.

### **Costing**

The estimated construction costs for the remedial work in the attached evaluation form has been based on the Costing Unit Rate Chart developed by Alberta Infrastructure. Where this data was incomplete or inappropriate to the recommended work, unit costs based on the local Calgary market were used.

1.	Site related work	\$24,000.00
2.	Building exterior	\$99,200.00
3.	Building interior	\$197,500.00
4.	Mechanical systems	\$117,250.00
5.	Electrical systems	\$129,850.00
6.	Portables – n/a	_____
	Total Estimated Costs	\$567,800.00

### **Space Adequacy**

The existing area, according to the School Building Area Guidelines and Supplement – maximum Gross Area of School Building Projects is deficient.

Existing Total Gross Area (square metres)	2553.3
Projected required total gross area (square metres)	<u>3026.0</u>
Overage / (Deficiency) (square metres)	(472.7)

### **Further Investigation**

Further investigation is required to determine the impact of the removal of hazardous material during any renovation work. Special code related issues with respect to fire separations should be reviewed at the time of renovation. There is no report on the roof, it requires further review, as do the roof accessories.

### **School Plan Data Information**

The plan information for the building was supplied by the school jurisdiction. Area information was provided by Alberta Infrastructure. The information generally appears to be up to date with some minor room function revisions.

