

Precast Prestressed Superstructure Enhances Saskatoon Air Terminal

Precast prestressed Vierendeel truss beams and double tees combined with precast reinforced columns were used effectively for the superstructure of the new Saskatoon air terminal building in Saskatchewan.

The Vierendeel truss beams span 56 ft and the 28-in. double tees have a maximum span of 70 ft with 20-ft cantilevers. The precast columns have a white quartz finish which provides the major architectural expression of the building both inside and out.

The new air terminal building, which replaces an earlier structure, *(cont. on following page)*





provides for growth to 1980 as constructed, with provision for flexible expansion thereafter. This flexibility is largely achieved by the use of a precast prestressed structural system using standardized manufactured elements. By prestressing the members, large interior spans can be achieved thereby minimizing internal obstructions.

The total cost of the terminal building (including furnishings, air bridge corridor, exterior works and landscaping) was \$3,500,000 or about \$20.00 per sq ft.

The structure was completed in November 1975.

Credits

Design Consultant: J. Holiday-Scott, M. Desmond Paine, Architects Limited, Saskatoon, Saskatchewan.

Contractor: Poole Construction Ltd., Saskatoon, Saskatchewan.

Precast Prestressed Concrete: Con-Force Products Limited, Regina, Saskatchewan.

Owner: Government of Canada, Ministry of Transport, Western Region.

