1Photos- existing and renovationProject: Telus HeadquartersAexterior viewsArchitect:Busby & AssociateLocation:Vancouver, B.C.	The William Farrell building is an eight story brick faced concrete structure. Originally made to house the companies telephone switching gear. With the introduction of digital operating equipment much of the space in the building became redundant for its intended use. Instead of demolishing the building, Busby & Associates Architects proposed retrofitting the structure. For energy conservation purposes the proposal was to cover the building with an double glazed aluminum framed curtain wall. The new high-tech curtain wall is hung 900 mm of the existing structure. The wall improves the heating and cooling performance of the building and is an icon of the new technology of the telus's digital information handling systems. Functional and aesthetic	<image/>	
Project: Telus Headquarters Architect:Busby & Associates Archtitects Location:Vancouver, B.C. Completion:Sept 2001	Climate Facade constructionTemperate Twin-face - natural ventilation through operable windows in both faces. Full building height cavity. Air cavity -buffer zone.Daylighting Shading Adaptability to various orientations User control VentilationYes-Tall windows and light shelves. Glazing of different densities. NoAdaptability to various orientations User control High ceilings HVAC -Forced air plenum in floor Curtain wall frame applied to existing brick faced building, renovation, High-tech	<image/> Thereare the the terms of ter	



and provides shade and diverts heat from the existing building in the summer. skin essentially is a greenhouse. The interstitial space stores heat in the winter The new exterior curtain wall acts to reduce ventilation and heating requirements. The cavity between the existing building and the new double The cavity air is controlled by louvres at the base of the cavity and dampers at

mechanized operable windows were fitted on the new glazing wall. The existing brick veneer was removed. The exposed concrete acts as a heat The existing windows were restored to operating condition. To supply fresh air

supports. The new glazing wall extends beyond the property line of the site sink. The curtain wall is hung off of the existing building with steel brackets and



Architect: Busby & Associates Archtitects Project: Telus Headquarters Location:Vancouver, B.C

Net Floor Area:11 430 sq. M. Const. Consult:Read Jones Christoffersen Completion:Sept 2001



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Project: Telus Headquarters Architect:Busby & Associates Archtitects Location:Vancouver, B.C.

A Section- Building





2001) away from the occupied areas." 1 (McMinn air space, creating negative pressure within convection air movement. Assisted by fans available solar energy, which is then allowing the building mass to retain chimney in warm weather and as an warm air is drawn up and out the top of the concrete structure acts as a heat sink, reradiated into the building, The exposed months louvres at the top of the double skin insulation jacket in cool periods. In winter the interior, which in turn draws warm air heat build within the double facade causes In warm weather, with the louvres open, helping to reduce temperature fluctuations. remain closed, trapping a layer of air, "The double skin acts as a ventilation

<sup>1</sup>Mcminn, John, *Sustained Discussion*, Canadian Architect, vol. 46, No.1 January 2001