



The Calgary Region as a Transportation Hub Conference

November 18, 2011



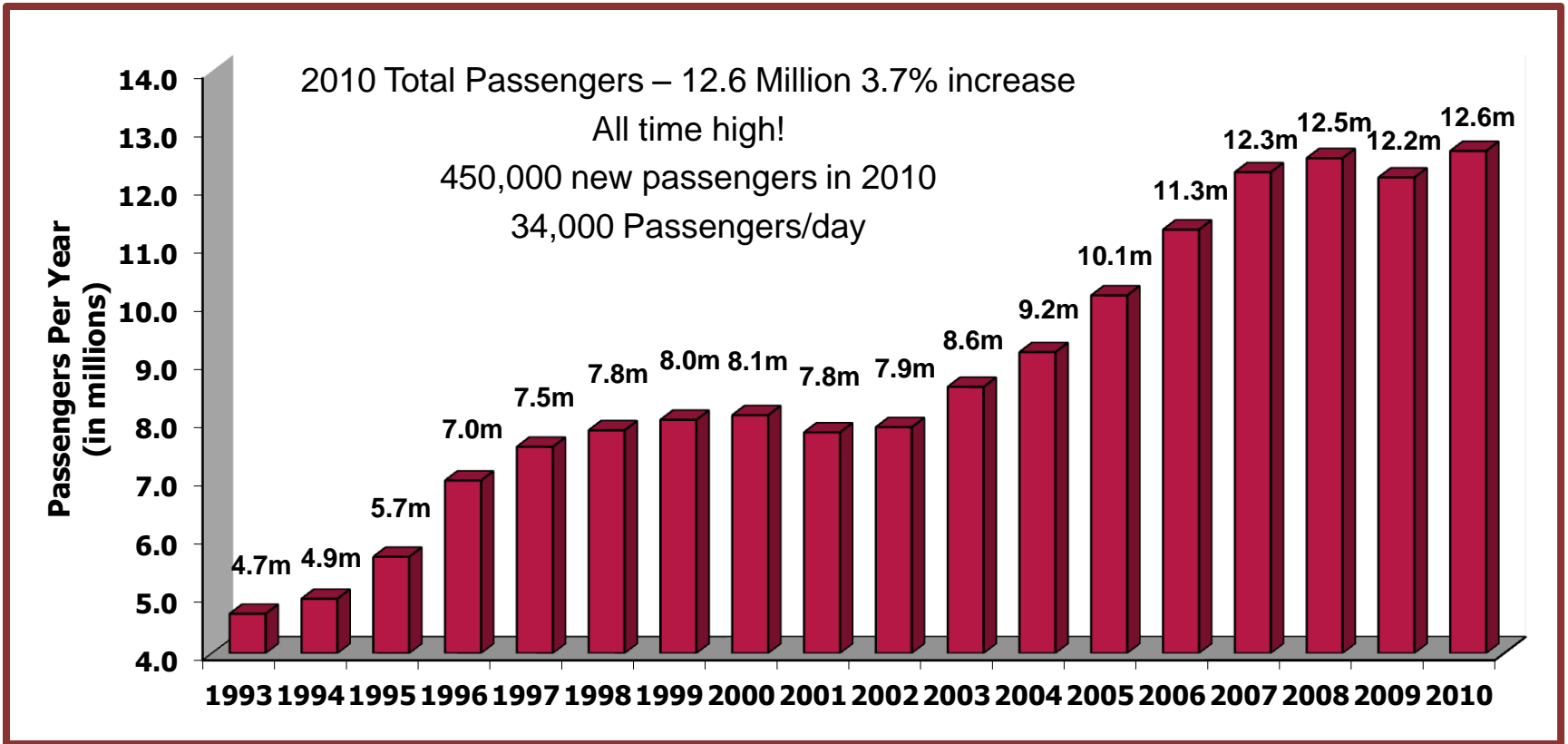
Corporate Overview

- The Authority is a non-share capital corporation est. under *Regional Airports Authorities Act* 1990 (RAAA)
- Two airports transferred:
 - Calgary International – July, 1992
 - Springbank – October, 1997
- All surpluses reinvested on airport (YYC/YBW)





- **5,275 Acres**
- **3 Runways (longest at 12,675 ft.)**
- **32 Gates**
- **158,200 m² Terminal Space**
- **10,500 parking stalls**



Future Activity at YYC...

Passenger forecasts:

- 17.3M by 2019 and 22.7M by 2029

Aircraft Movement forecasts:

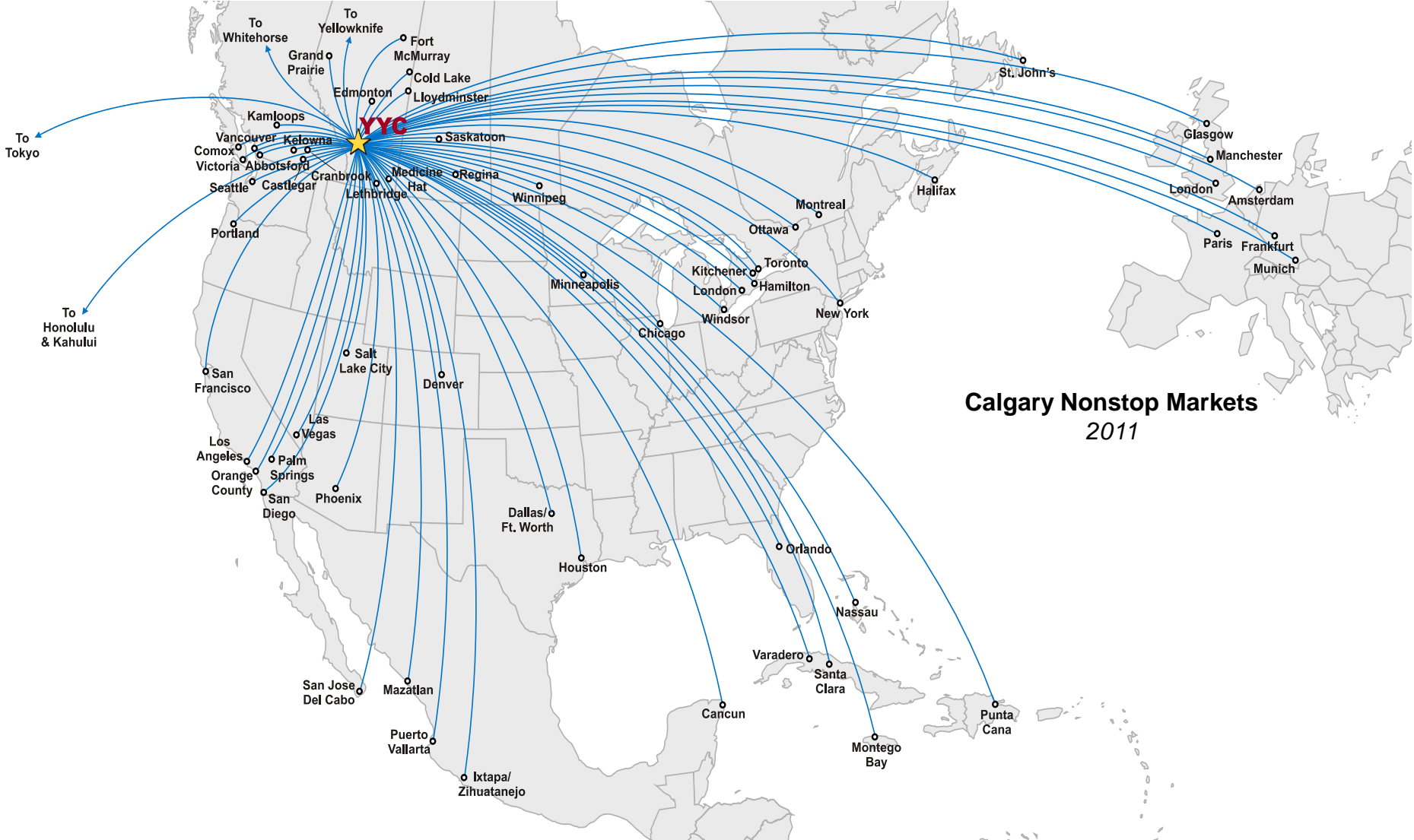
- 170,552 air carrier movements in 2010
- 221,000 by 2019 and 284,000 by 2029



2010 Highlights

- **Passenger growth**
 - Domestic – 2.3%
 - Transborder – 4.4%
 - International – 12.9%
- **Air Service**
 - New services to Tokyo, Korea, Maui, Honolulu
- Canada's 4th busiest airport
 - Served by 24 passenger carriers
 - 68 destinations

CALGARY IS ONE OF CANADA'S TOP GATEWAYS, OFFERING NONSTOP SERVICE TO 38 INT'L MARKETS



Calgary Nonstop Markets
2011

Source: OAG Schedules



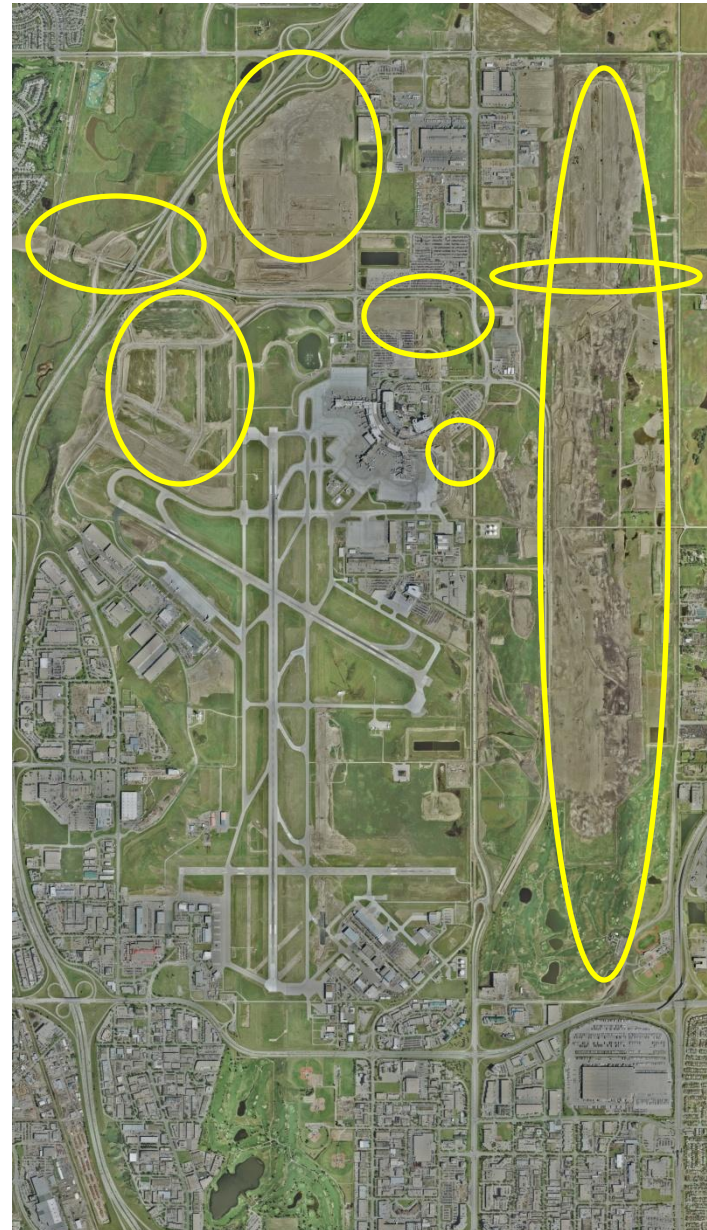
“Bridging Today into the Future”

- **YYC becoming an inner city airport**
 - Oxford Development
 - Skyview Ranch
 - City NE LRT Study
 - 36th Street developments
 - Airport Trail tunnel
 - Airport Trail connection to Harvest Hills Blvd.
- **Airport Facilities**
 - International and Transborder facilities constrained = IFP
 - Runway capacity at max = RDP
 - Cargo/logistics activity focused in YYC Global Logistics Parks – Deerfoot North/Deerfoot South
- **2014 Airport Master Plan update**
 - 2004 master plan/2008 terminal reserve plan

2011 YYC Aerial photo

Areas under construction:

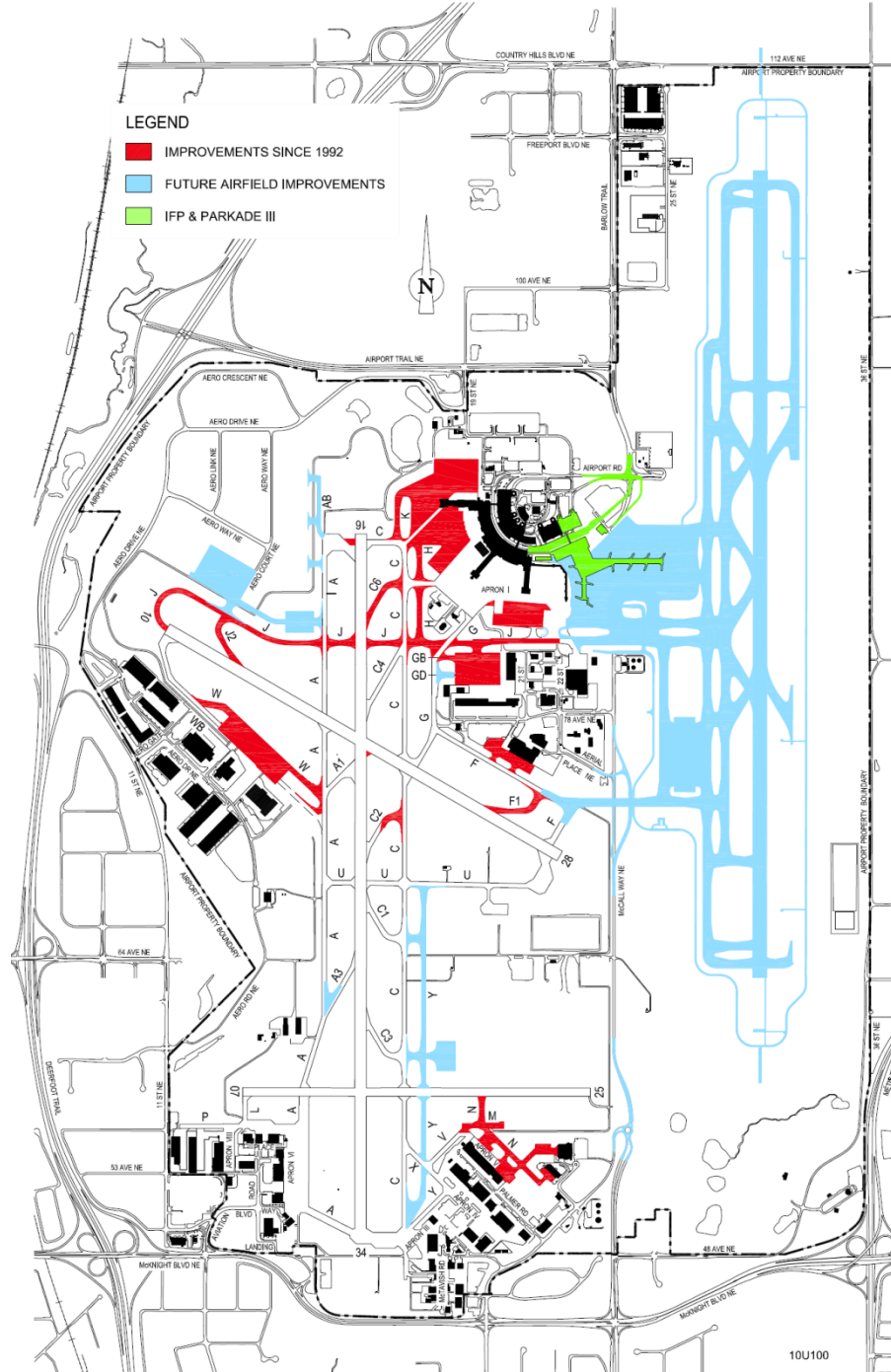
- Parallel Runway (RDP)
- Airport Trail tunnel (City)
- International Facilities Project (IFP)
- Terminal Area parking – discount and staff lot expansions
- Deerfoot North Aviation Park – Cargo/logistics and commercial development
- Oxford development
- 96th Ave/Deerfoot trail Interchange

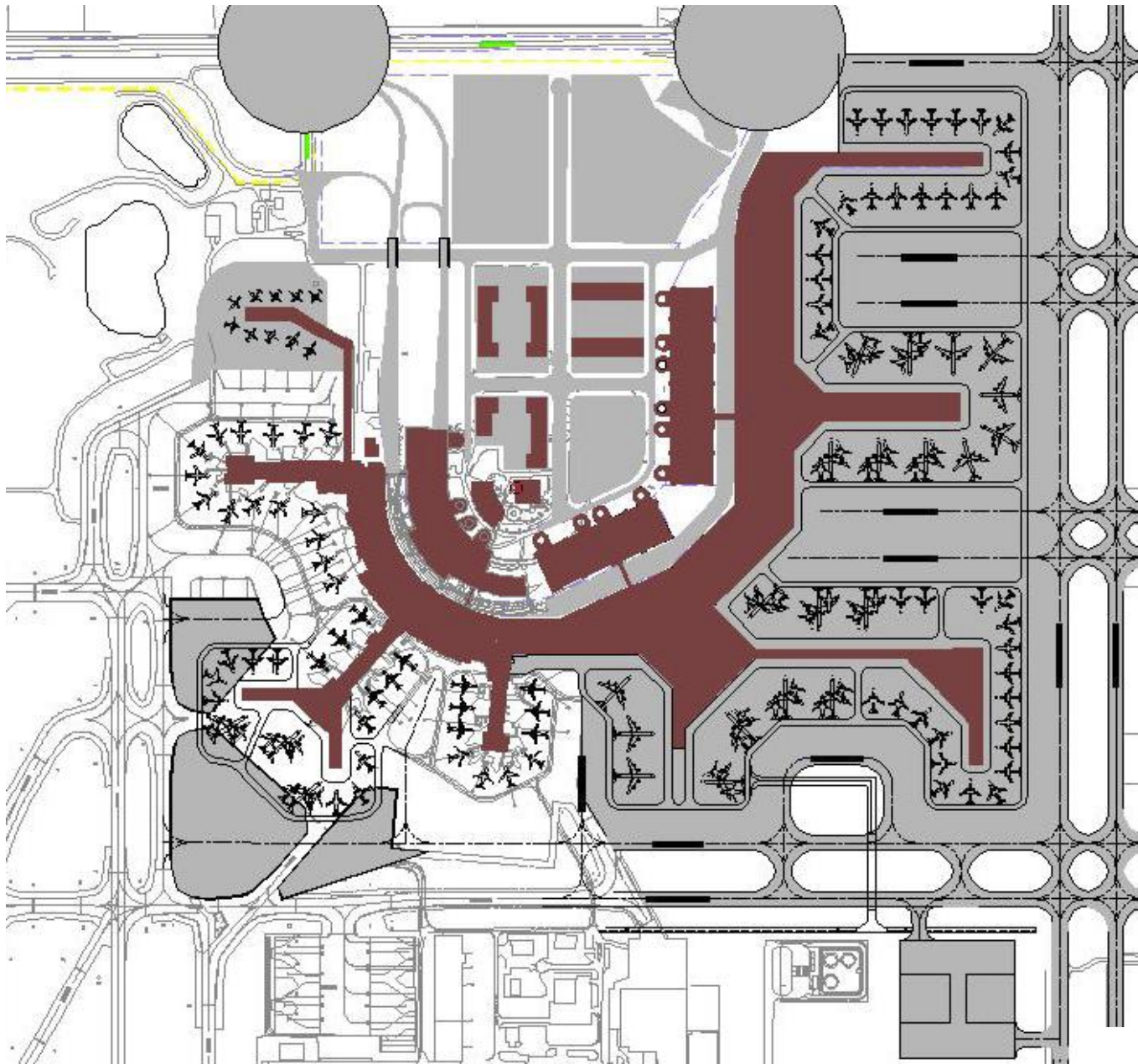


Past, Present and Future Airfield Improvements

LEGEND

- IMPROVEMENTS SINCE 1992
- FUTURE AIRFIELD IMPROVEMENTS
- IFP & PARKADE III





Terminal
Reserve
Area
Master Plan
(2008)

**\$2.4 BILLION
WILL BE
INVESTED IN
YYC DURING
THE NEXT
DECADE**



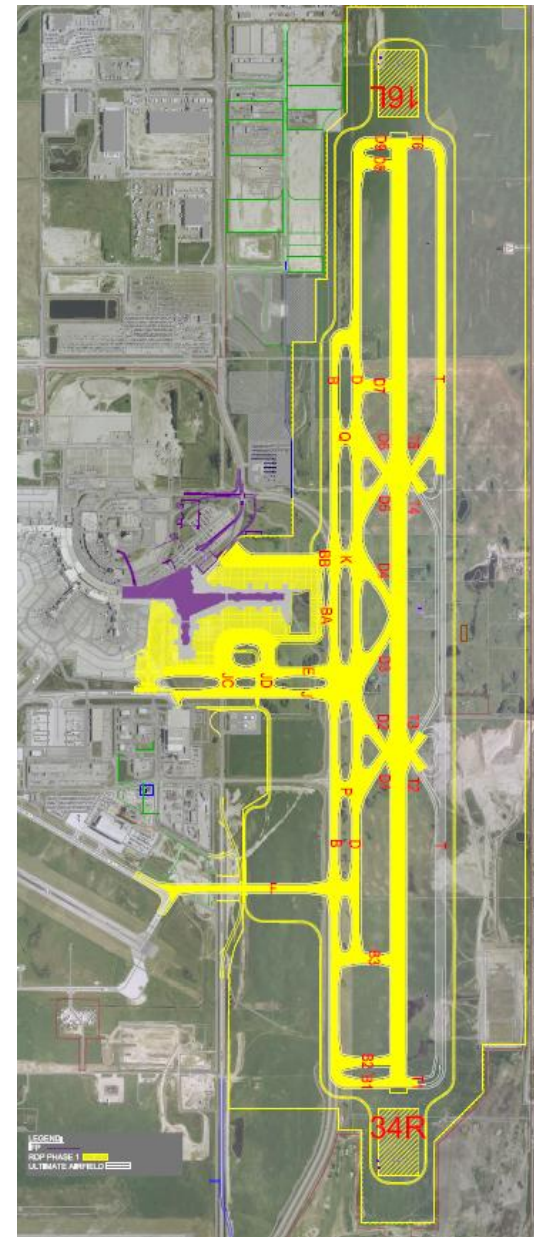
International Facilities
Project (IFP)

Runway Development
Project (RDP)

- Enablers of future economic growth in Calgary
- Enable YYC to be a transportation hub
- Game changers** for airport and partners

YYC RUNWAY
DEVELOPMENT
PROGRAM

- Largest construction project in Calgary's history
- 1600 people will be employed on the ADP
- 10.5 million hours of employment
- Total estimated cost \$2.1B
- 2010 – 2015 timeline

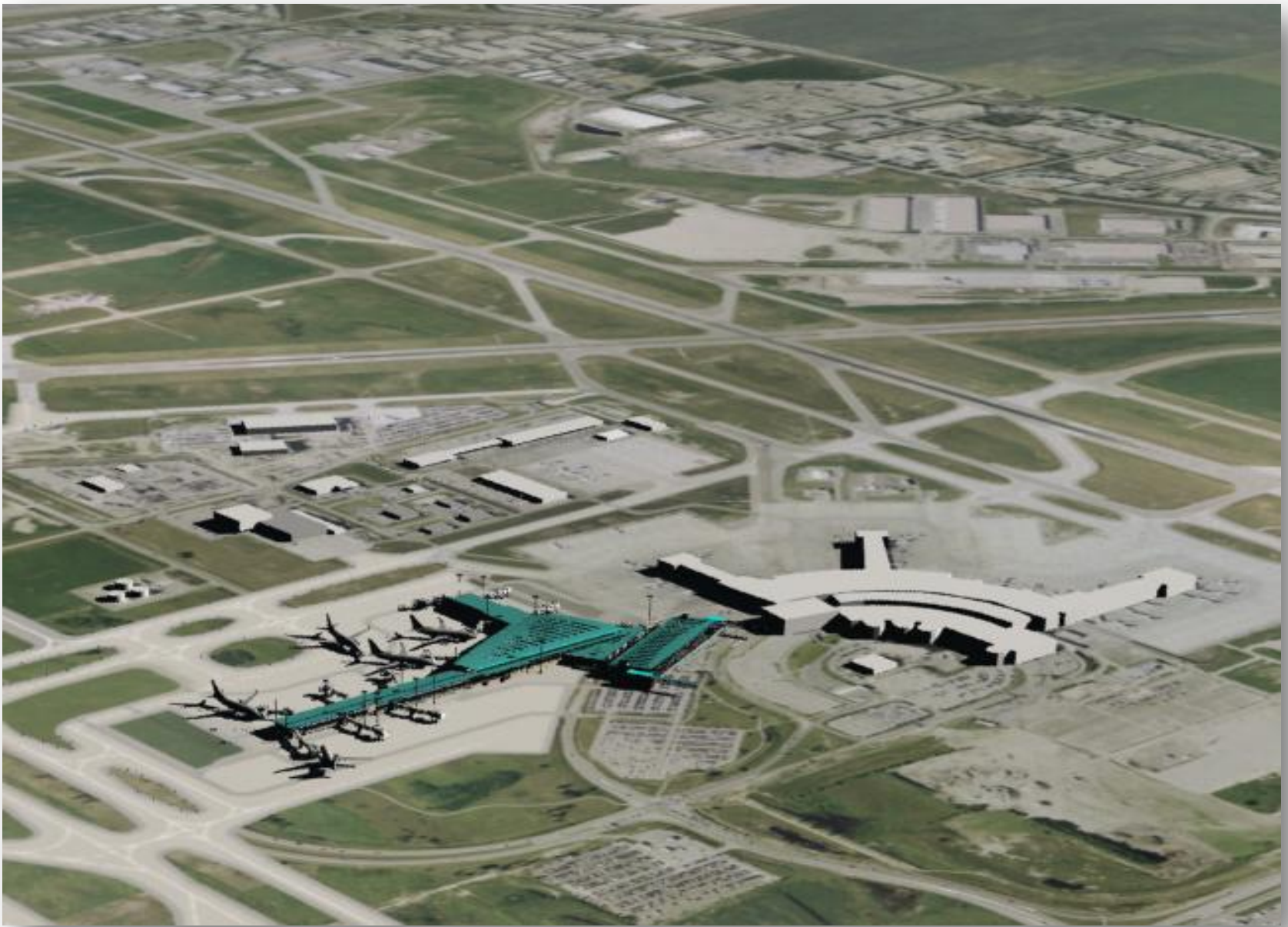


Airport Development Program



**THE NEW
INTERNATIONAL
CONCOURSE
WILL USE
LEADING-EDGE
SUSTAINABLE
DESIGN
PRINCIPLES**

**Why do we need a
new International
Concourse?**



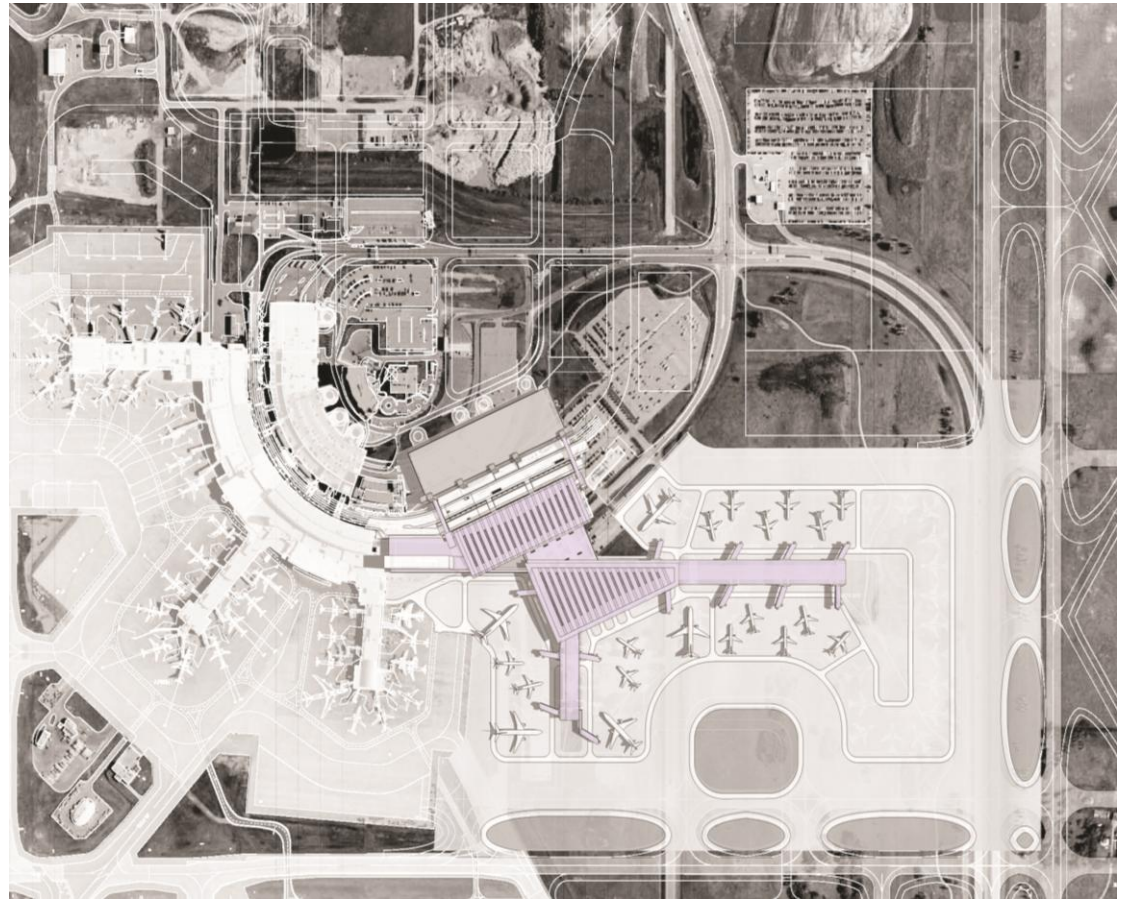
International Facility Project

YYC CALGARY
AIRPORT
AUTHORITY

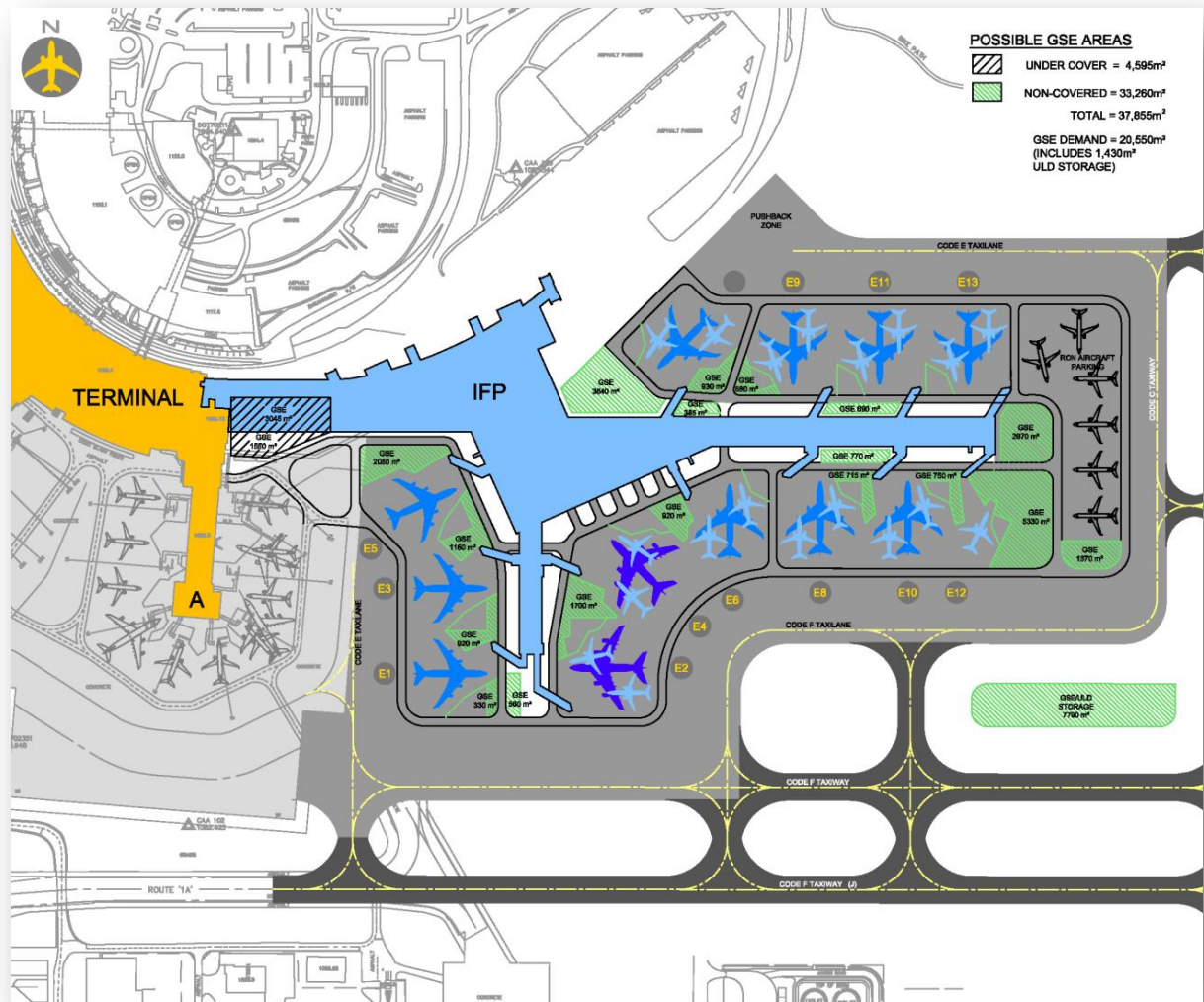
International Facilities Project - The Need for IFP

- **History**

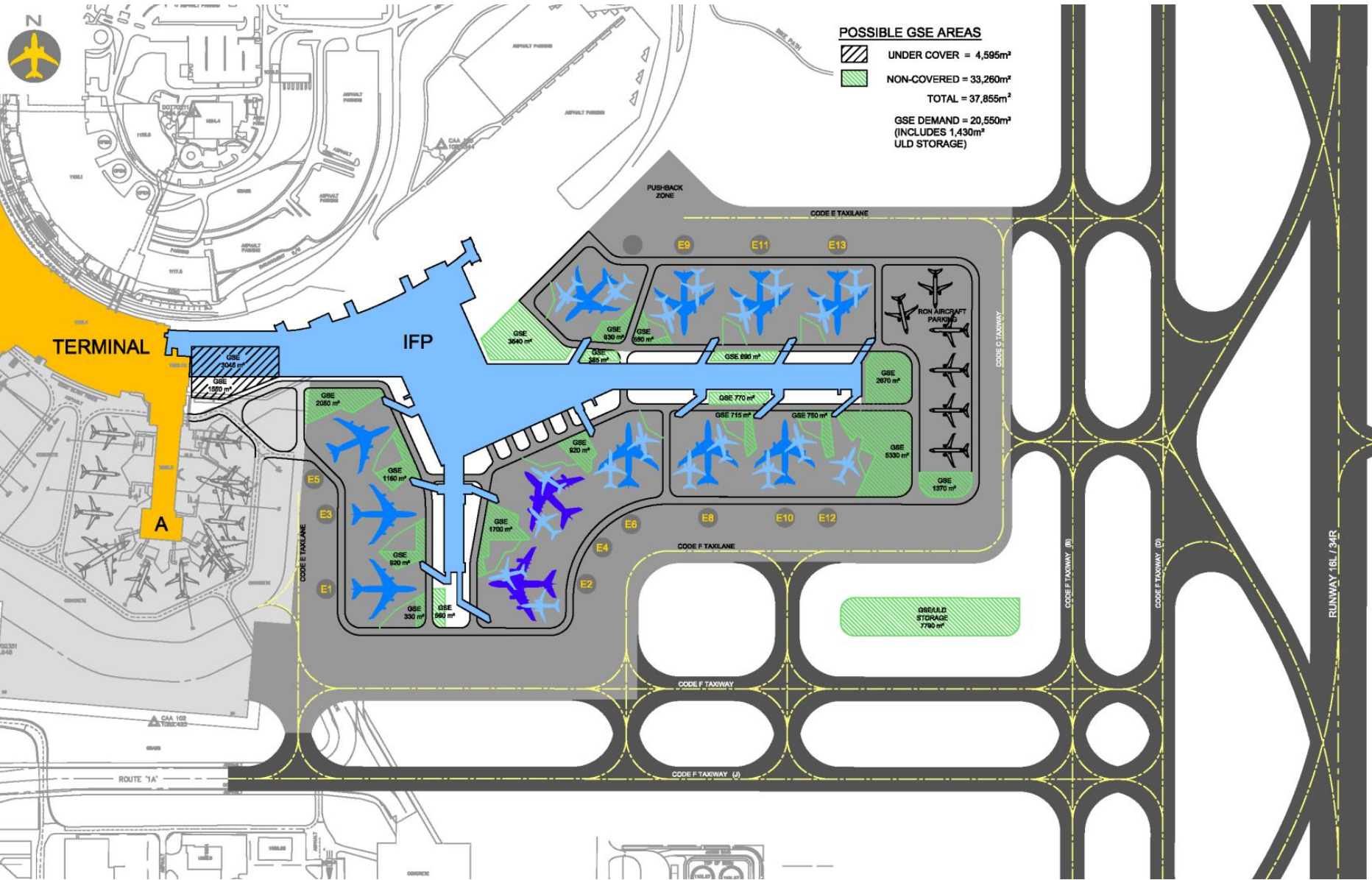
- Unprecedented Traffic Growth 2002 to 2007 (55% INT/TB)
- Concourse B/C Analysis
 - High levels of unforeseen growth
 - Under capacity with 13 existing gates
 - Passenger processing facilities and systems overtaxed
 - Limits placed on air carrier flight schedules
 - B/C Expansion proved an inadequate option



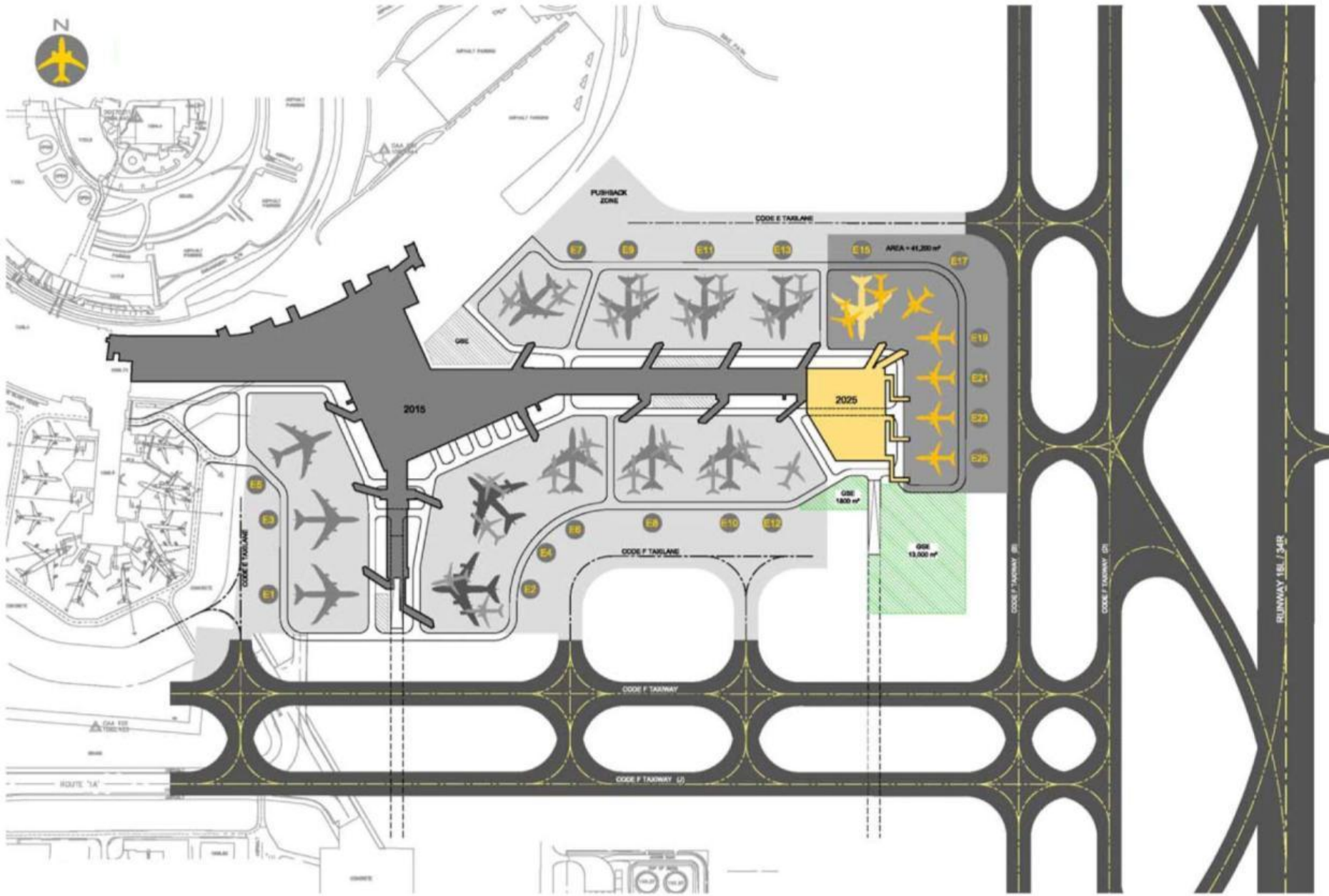
- Primary International Transborder Concourse
- 183,000 square metres
- 22 gates phase 1
- In-service mid 2015



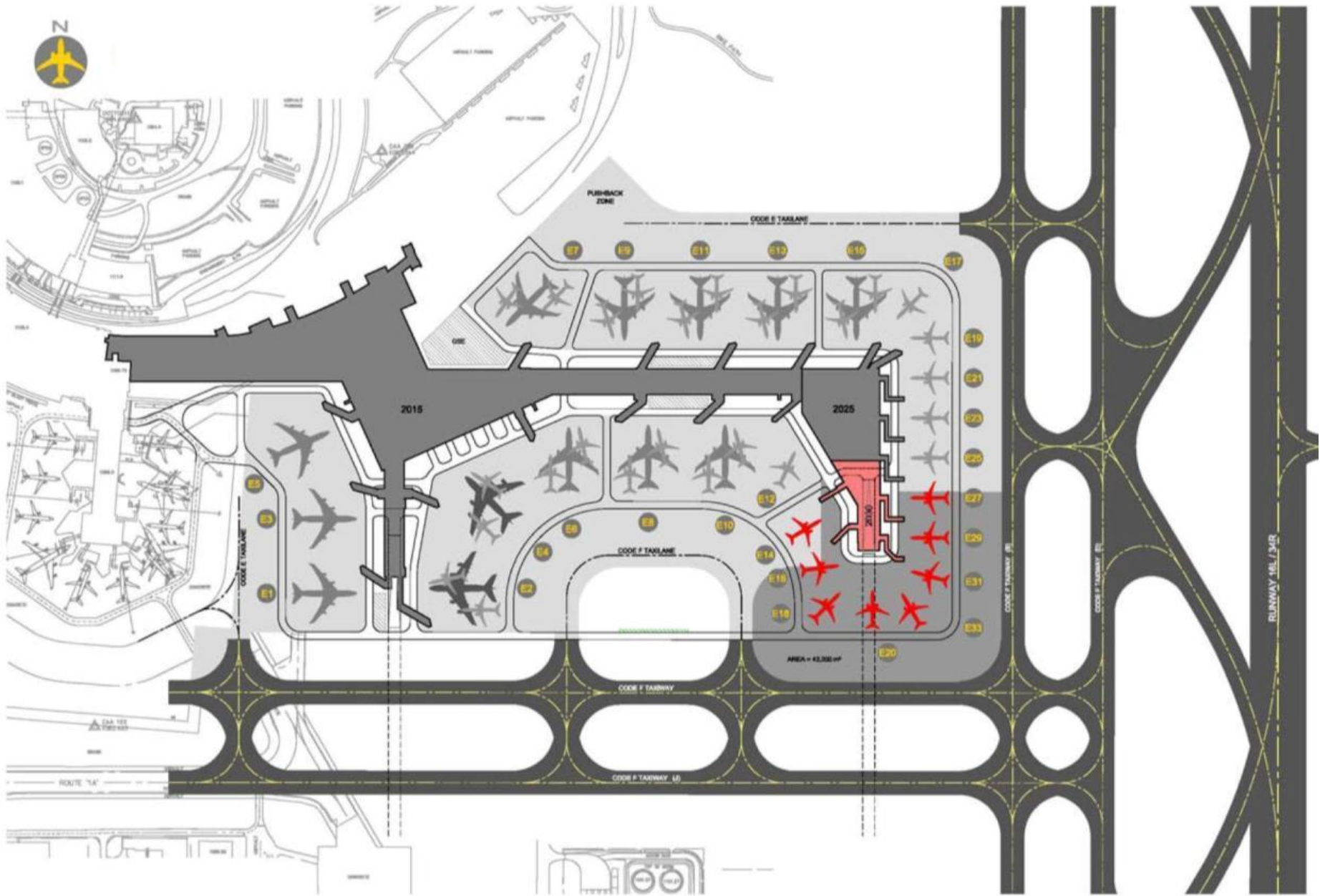
International Facilities Project



Phasing - 2015



Phasing - 2025



Phasing - 2030

IFP – Construction Started April 19!!!



“discover, create, experience”

YYC INTERNATIONAL
FACILITIES
PROJECT

IFP – Construction September 2011



“discover, create, experience”

YYC INTERNATIONAL
FACILITIES
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IFP – Construction September 2011



“discover, create, experience”

YYC INTERNATIONAL
FACILITIES
PROJECT



IFP - A Green Building

The IFP is being built with many sustainable features

- 600 geothermal wells
- 660 km of in-floor radiant heating tubes
- Co-gen will save 4,900 tonnes of CO₂/year
- 10,000,000 litres of rainwater will be harvested and recycled annually
- High performance building envelope
- De-centralized mechanical/electrical systems



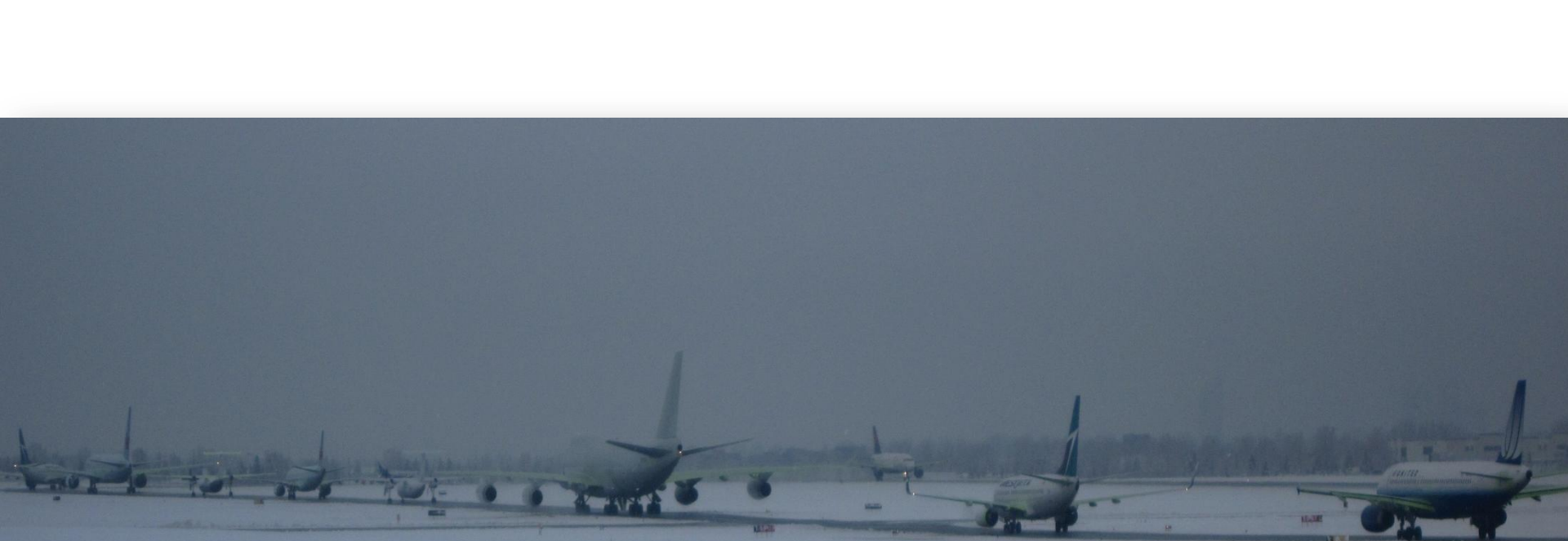
International Holdroom



Transborder Holdroom

Why do we need a new Runway?






Congestion and delay:

- daily delay programs between 1700 and 2100hrs
- crossing runway configuration at max
- mitigations exhausted

2010/02/17

- 
- An aerial photograph of an airport runway development project. The image shows a large, complex network of runways and taxiways, with a central terminal building and several aircraft parked at gates. The surrounding area is a mix of green fields and developed land. A semi-transparent text box is overlaid on the lower-left portion of the image, containing a list of project statistics. The runway numbers '34R' and '19L' are visible on the ground.
- 7.5 million cubic metres earthworks
 - 525,000 cubic metres granulars
 - 5000+ runway and taxiway lights
 - 260,000 cubic metres of concrete (43,000 ready-mix trucks)

- Runway – 14,000' (4,267m)
- 'parallel' to existing N-S runway
- Code F (Group 6) capable – A380, B747-8
- Cat III(a) operating category
- Development controls: YYC zoning regulations and AVPA as if runway was already in place since 1977
- Centralized Deicing
- In service - 2014



- Tower Height: 86.8m (285 ft)
- Attached Antenna: 6.1m (20 ft)
- Total structure height: 92.9m (304 ft)
- 24 stories (23 plus cab)

Calgary ATC Tower

NAV CANADA



An aerial photograph of a construction site for the ATC Tower. The central focus is a circular concrete structure under construction, with a yellow tower crane standing tall to its left. A red concrete pump truck is positioned to the right, with its long boom extending towards the structure. The site is surrounded by various buildings, including a large white industrial building with a white roof and a smaller building with red and white sections. A parking lot with several cars is visible in the foreground. The sky is overcast with grey clouds.

ATC Tower construction

A photograph of a large-scale construction site for the ATC Tower. The structure is a multi-story steel frame with a complex roof system. A tall yellow tower crane stands prominently in the center. In the foreground, there are stacks of construction materials, including wooden formwork and metal beams. A blue Genie Z-60/34 scissor lift is visible on the right side. The sky is overcast and grey.

**ATC Tower construction
November 2012 completion**

Calgary Tower



14,000'



Chinook Mall



Image © 2009 DigitalGlobe







10/04/2011 14:33



Thank you
www.yyc.com

YYC CALGARY
AIRPORT
AUTHORITY