



# Springbank Airport

Harmony Discovery Centre - Lunch & Learn

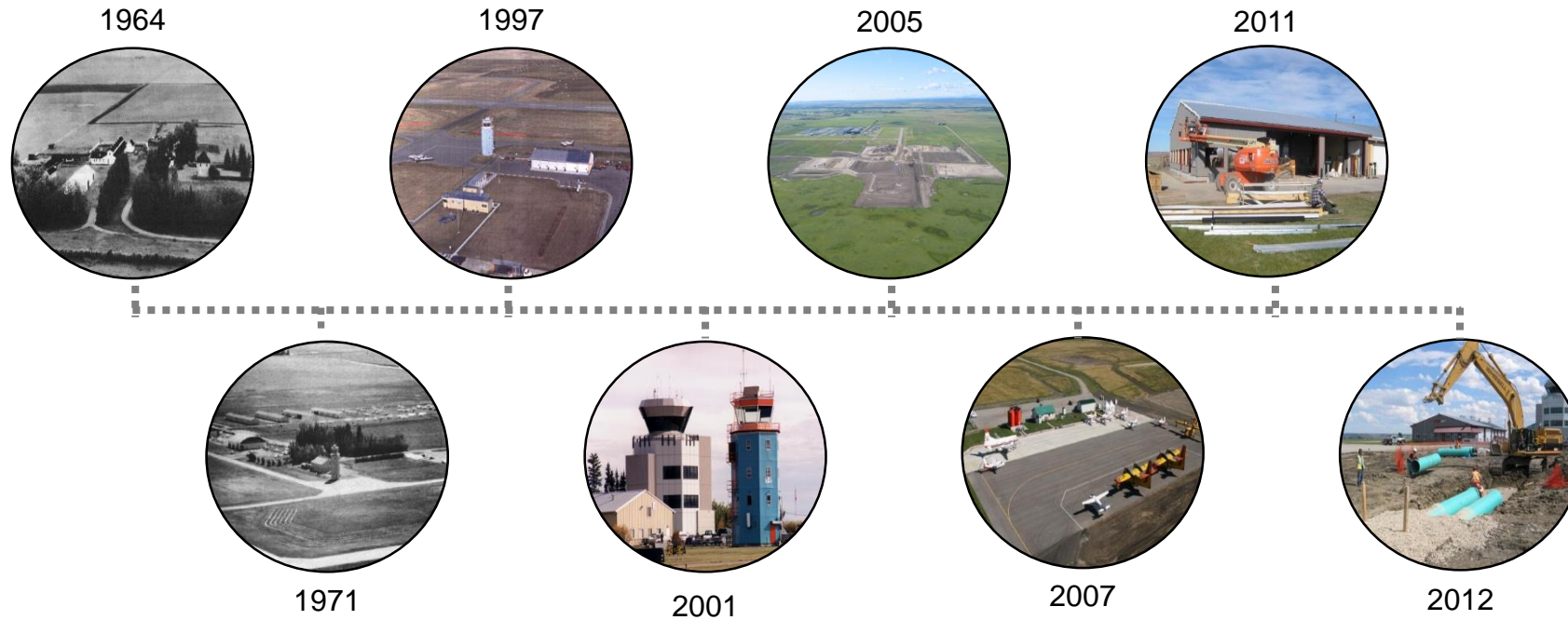
# MANAGEMENT & OPERATION

---



- Springbank Airport is managed and operated by the Calgary Airport Authority, a not-for-profit, non-share capital corporation, incorporated under the Province of Alberta's Regional Airports Authorities Act
- YBW is Alberta's second-busiest airport in terms of aircraft movements, and the 6th-busiest aerodrome (Feb 2016 stats) in Canada overall
- The airport operates 24/7/365
- YBW is a reliever airport for YYC supporting light aircraft activity and compatible aircraft maintenance, manufacturing and support operations

# HISTORY



- 1964 – MacLaurin Farm
- 1969 – The airport begins operations (Feb)
- 1971 – The airport officially opens
- 1997 – The Calgary Airport Authority assumes operation
- 2001 - NAV CANADA officially opens the new control tower
- 2005 - Construction of the runway begins
- 2007 - Alberta Environment & Parks begins forestry tanker base operations at YBW
- 2011 - Expansion to the existing maintenance garage and construction of the new administration area
- 2012 – Expansion of the apron and construction of de-icing infrastructure

# AIRPORT GROWTH

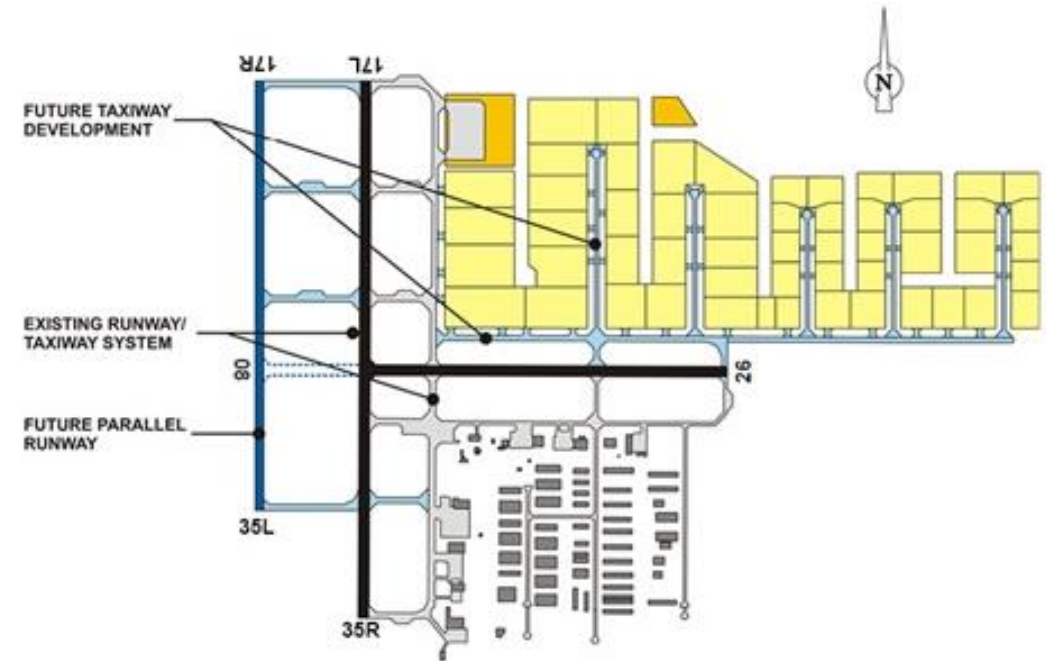


- The role of the airport remains the same, to advance economic and community development
- Development is subject to demand. While YBW can grow its footprint, expansion is based primarily on airfield capacity
- Plans will continue to support light aircraft operations, flight training, charter operations, aircraft maintenance and associated services.

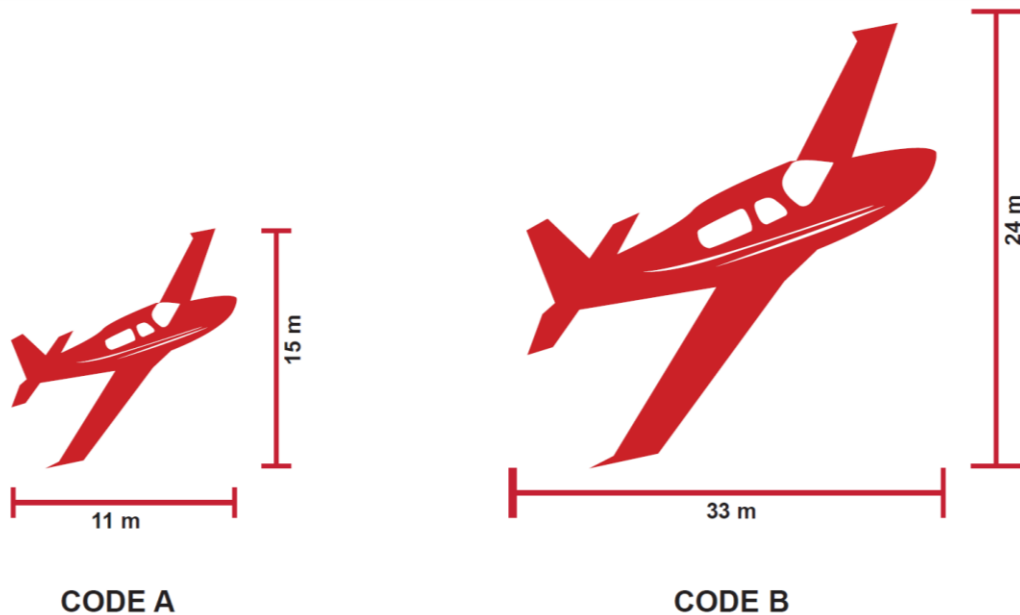
# What are the growth plans for the airport?



- The demand for operating surfaces (runways and taxiways) and available land development space, dictate the growth at YBW
- Operating Surfaces:
  - YBW has two runways: a 5,000 ft. north-south runway (17L/35R) and a 3,423 ft. east-west runway (08/26)
  - Runway 08/26 has the potential to grow to equal length as 17/35 (5,000 ft.)
  - The airport zoning and Master Plan allow the construction and operation of a third runway (17R/35L) with a proposed length of 4,000 ft.
- Land development:
  - There is available serviced land south of runway 08/26 for lease.
  - The area north of runway 08/26 allows for additional growth based on demand

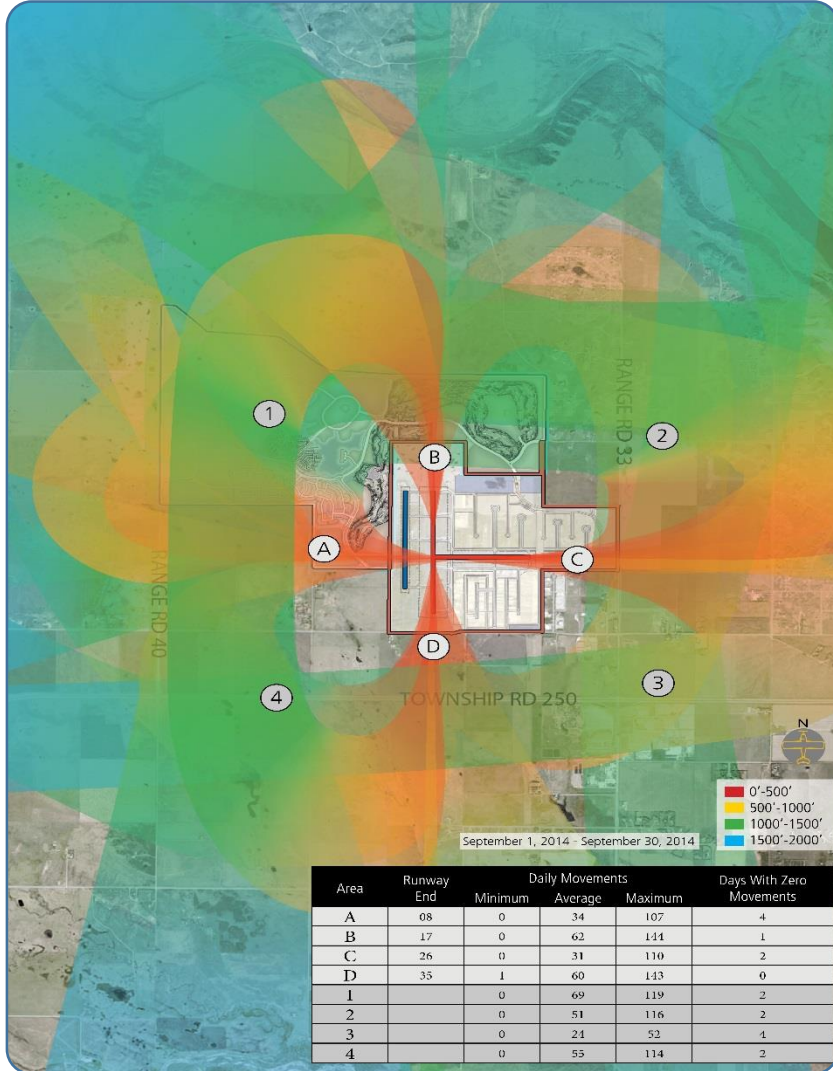


# What types of aircraft fly in and out of YBW?



- Transport Canada's Code A and Code B categories can operate at YBW (40,000 lbs., 79 ft. wingspan, Chapter 3 compliant jets)
- YBW houses one Code C aircraft, the Alberta Environment and Parks' forest fire tanker
- Bigger aircraft can fly in and out of YBW if needed in case of emergency
- YBW supports light aircraft activity with no plans, at this time, to include scheduled passenger service

# TRAFFIC ACTIVITY



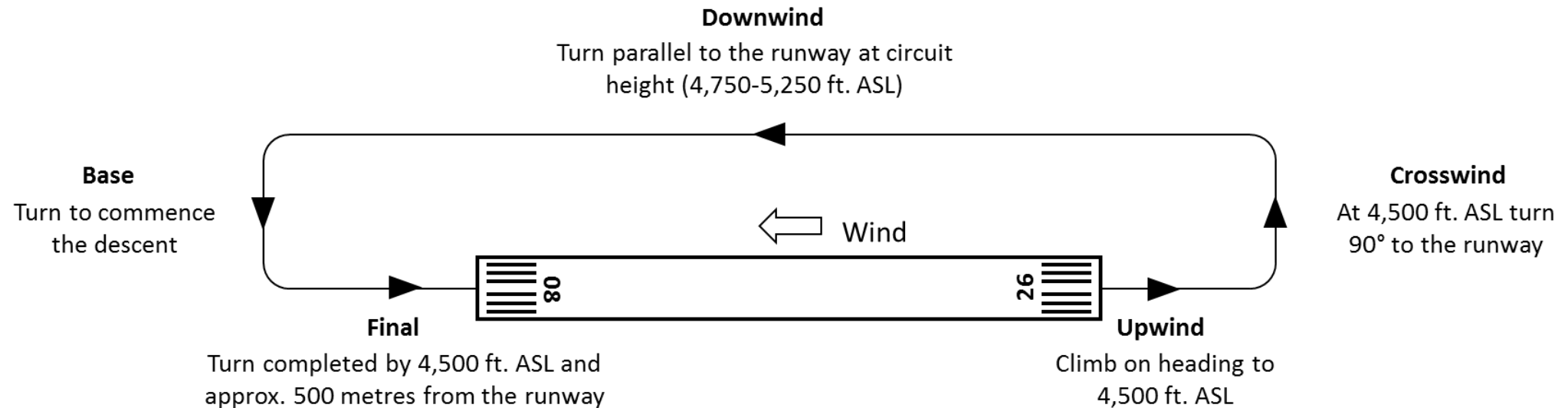
- Flight patterns used by fixed wing aircraft in YBW include arrivals, departures and circuit training.
- The various colours indicate elevation in relation to the ground.
- Aircraft movements continue to grow year after year. There were 151,502 aircraft movements in 2015.

YEAR	MOVEMENTS
2012	132,908
2013	134,752
2014	146,773
2015	151,502
2016 (estimated)	164,216

# What are the rules for fixed wing circuit flying?

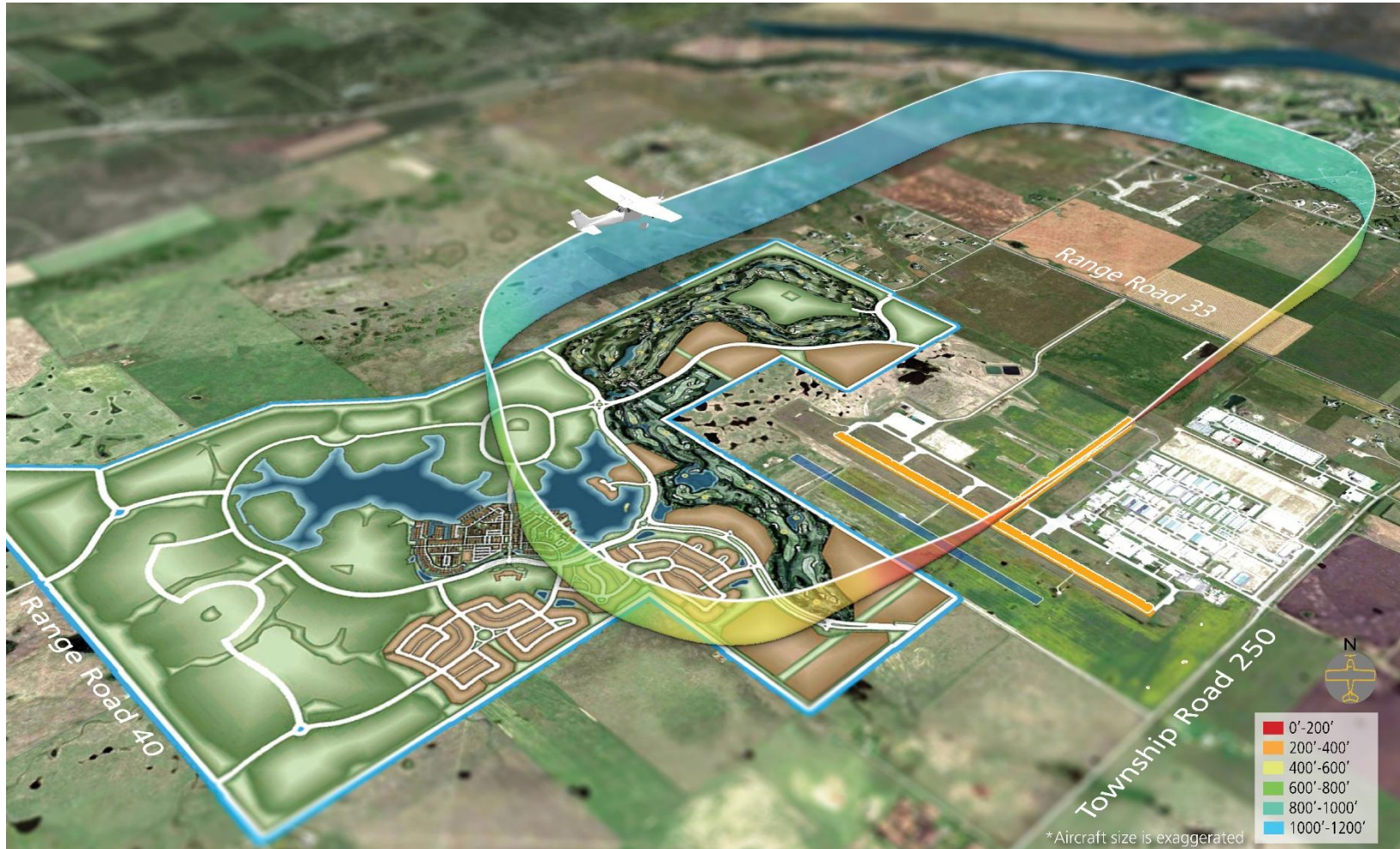


- Circuits are traffic patterns used for training
- The circuit is a rectangular pattern based on the runway in use
- YBW has two left-hand and two right-hand circuits (RWY 26 = right, RWY 08 = left, RWY 35 = left, RWY 17 = right)



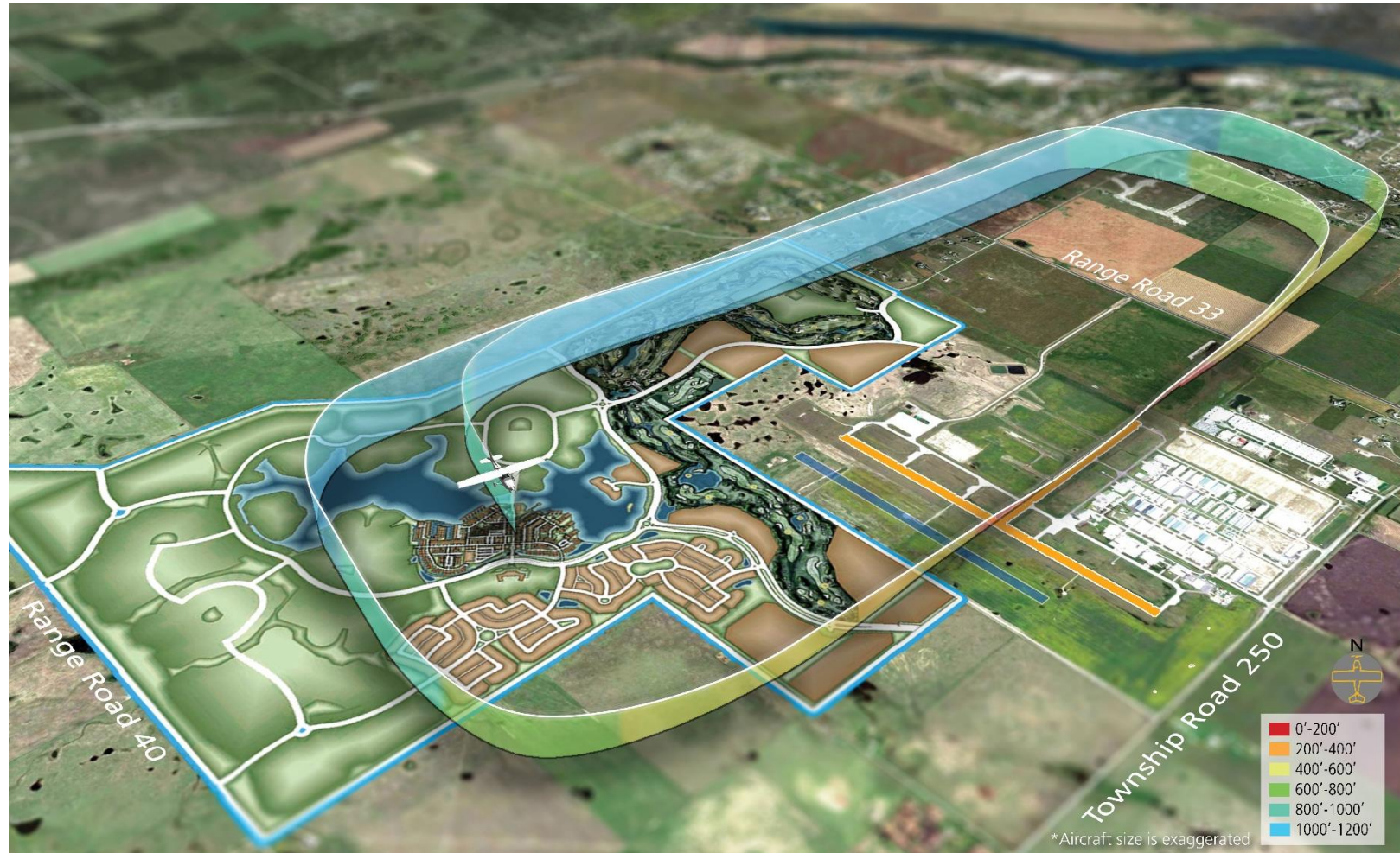


# How close to the homes will the planes fly?



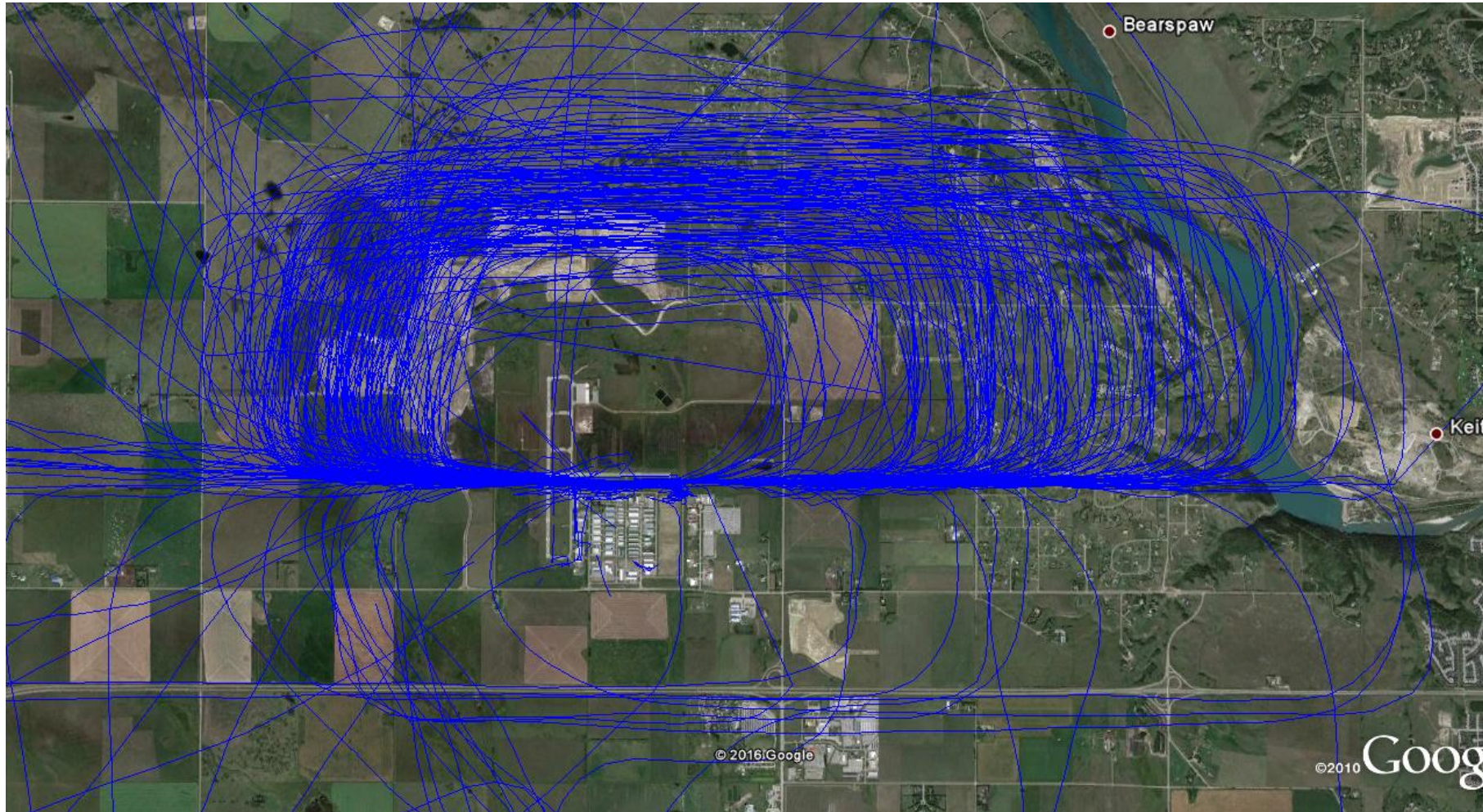
The diagram shows a typical fixed wing training circuit when runway 26 is in use (westerly winds)

# How close to the homes will the planes fly?



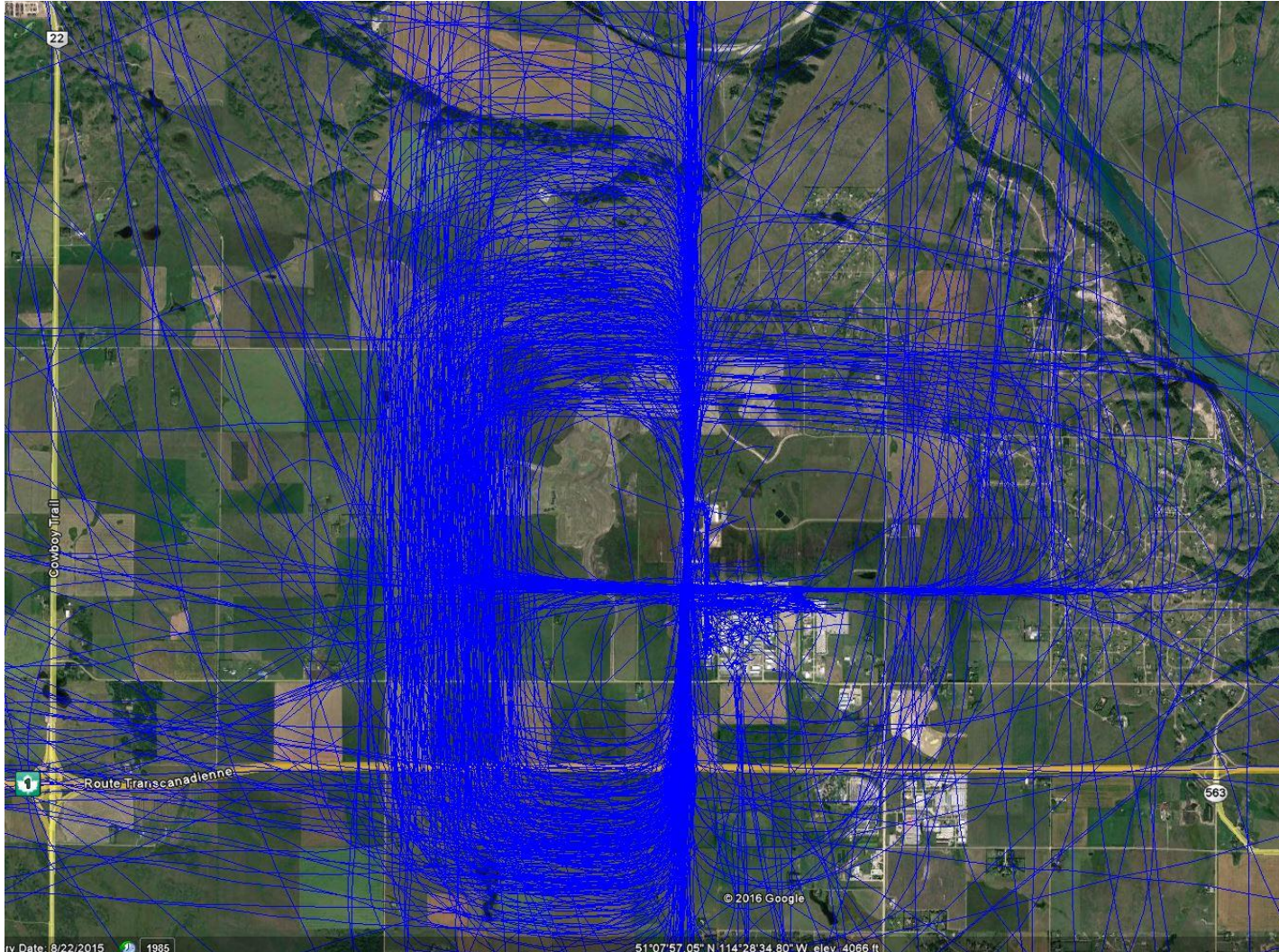
The diagram shows a typical fixed wing training circuit when runway 08 is in use (easterly winds)

# How close to the homes will the planes fly?



The diagram shows the flight tracks for a 24 hours time span when runway 08/26 was in use

# How close to the homes will the planes fly?

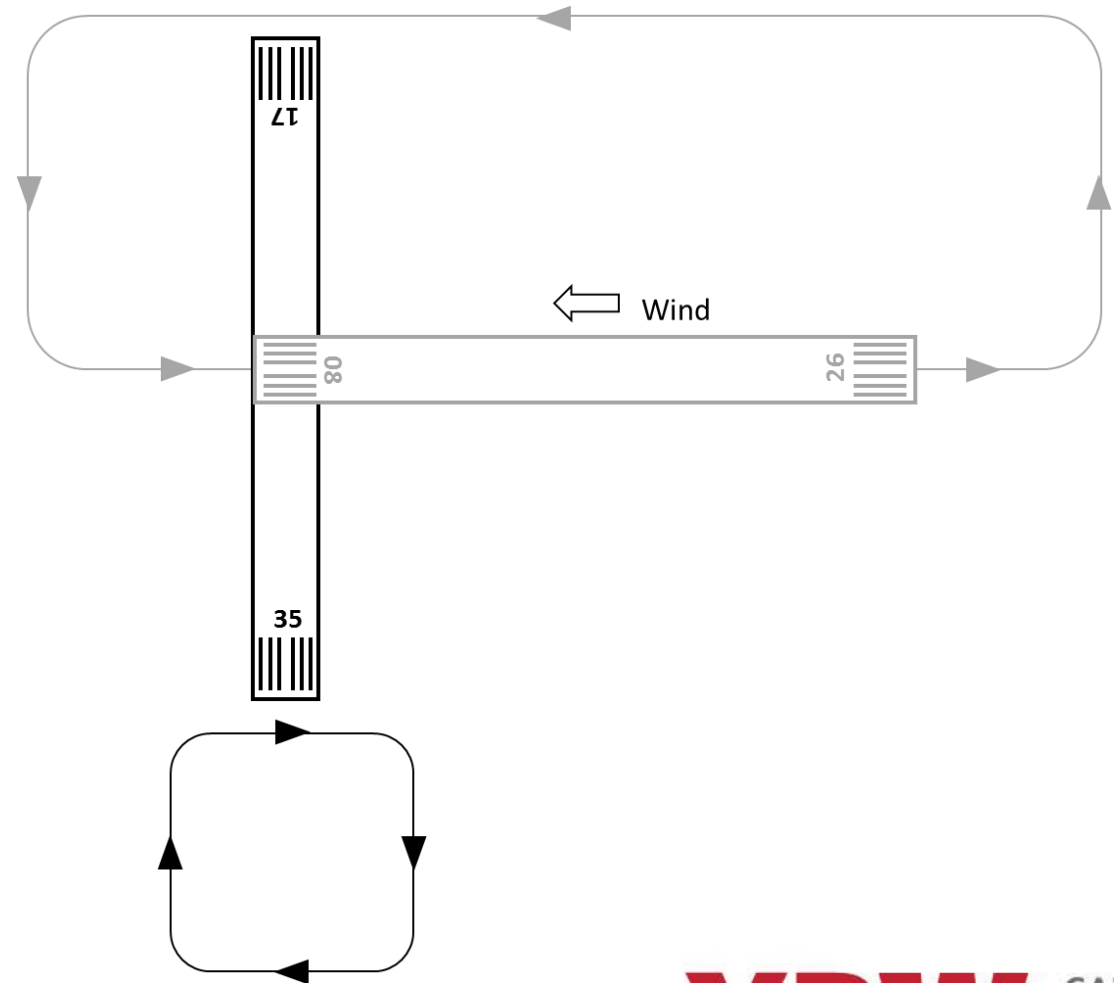


The diagram shows the flight tracks for a 48 hours time span when runway 17/35 was in use

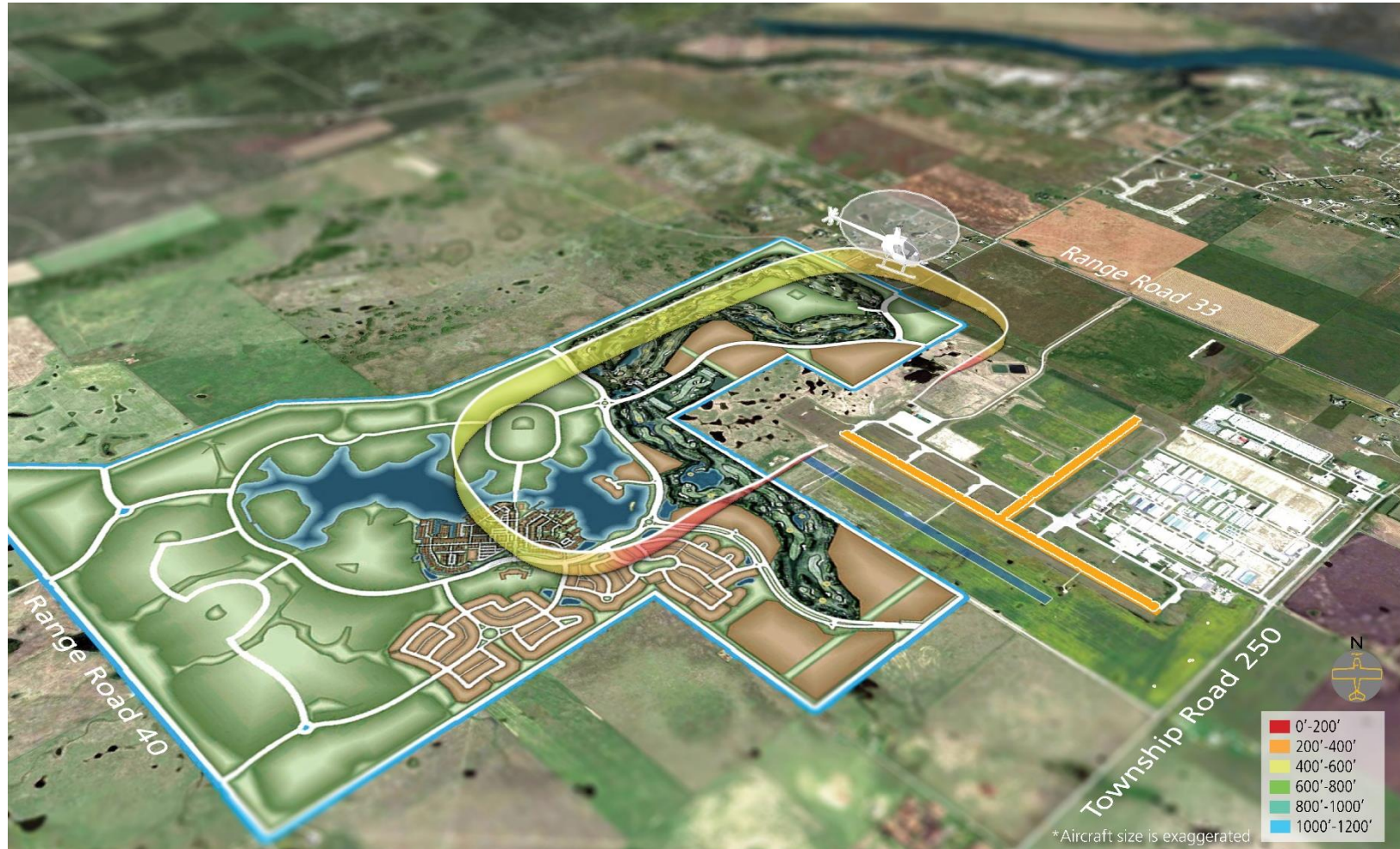
# What are the rules for rotary wing circuit flying?



- Helicopter circuits move to locations that have minimal impact on traffic flows:
  - The threshold of an inactive runway, or
  - Circuiting inside and below the active fixed wing circuit
- Helicopter circuits stay below 4,500 ft. ASL



# How close will the helicopters fly?



The diagram shows a typical helicopter training circuit in the threshold of runway 17/35

# JETS & NIGHT ACTIVITY



- Light jet traffic was first introduced in YBW in 2007
- Jet activity represents less than 2% of YBW's total movements in a year
- In 2015 nighttime departures were announced allowing jet aircraft to operate during the hours of 23:00 and 07:00
- In 2015 there were 108 aircraft movements during the nighttime hours. This represents approx. 40% increase from 2014.



# How does the airport control and monitor traffic at night?



- The Air Traffic Control Tower operates from 07:00 to 23:00 each day
- While the Tower is closed, YBW functions as an uncontrolled airport. Pilots tune into a mandatory frequency and communicate/coordinate with each other
- YBW users are vigilant during unstaffed hours and are encouraged to report suspicious behavior to the Airport Authority



# COMMUNITY ENGAGEMENT



SACNCC



B-17



TAC



Outreach



Wings Over  
Springbank



HAWCS



SABPA  
Open House

# Will there be another airshow?

---



- Wings Over Springbank organizers have applied to Transport Canada to hold the event in 2017. The intent is for it to be a bi-annual event moving forward
- There are some negotiations with the Airshow Society required before it can be determined with certainty that an airshow will be held in 2017