

Council Meeting

New AIF Program – Preliminary Design Development

February 5, 2018

SOARING BEYOND
2.5 MILLION PASSENGERS



Agenda

- Call to order, welcome and introductions
- 2045 Master Plan Overview
 - Key Findings
 - Top Priorities/Concerns
- Soaring Beyond 2.5 Million Passenger Program
 - Timeline
 - Major projects
 - Terminal Building expansion
- Questions and wrap up

2045 Master Plan Overview

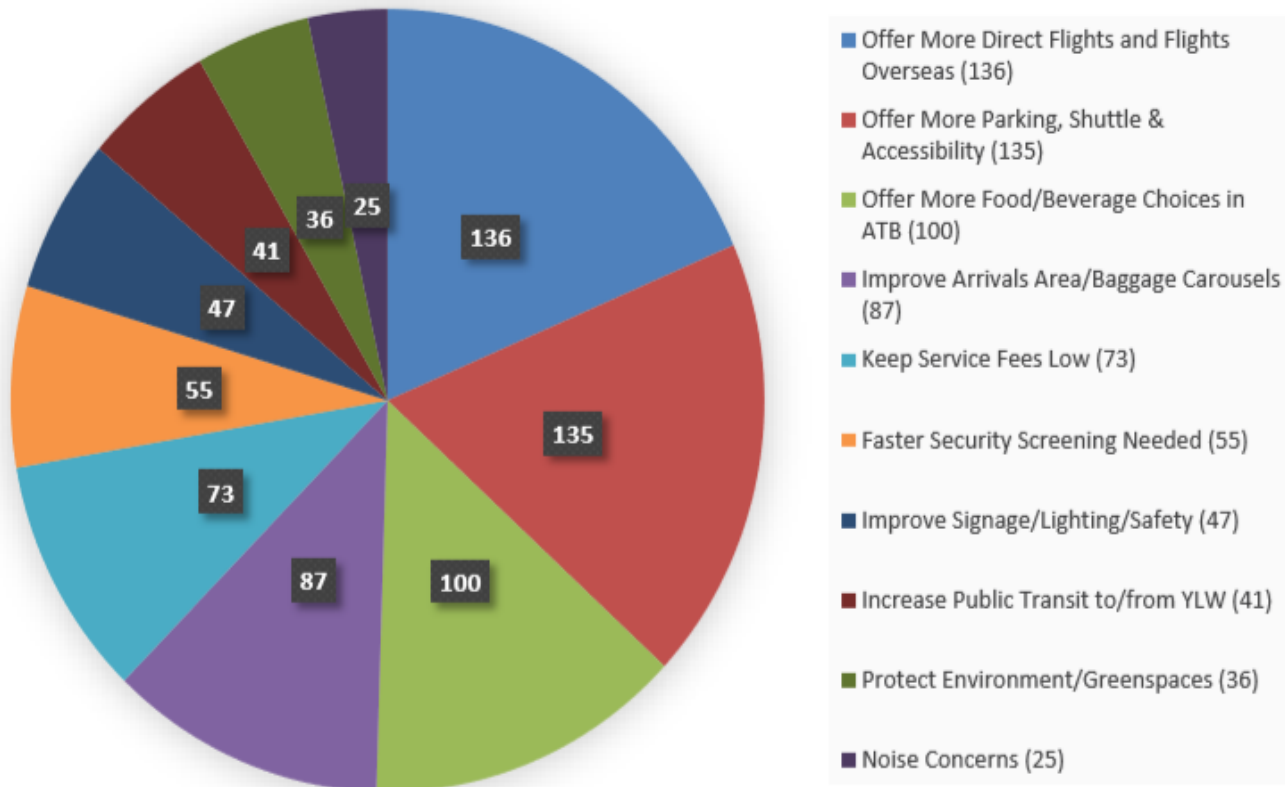
- **Key Findings**

- Current runway capacity and length are sufficient to meet future demand
- YLW generates significant economic impacts - over 1400 jobs and a GDP of \$152 million
- Apron will require five new remote aircraft parking stands by 2035 and 1 new terminal gate stand by 2045
- Passenger traffic is forecast to increase from 1.6 to 3.6 million passengers by 2045
- Air terminal building will require expanded hold rooms and baggage claim areas
- Aircraft movements are forecast to increase by approximately 50% - most of this increase will come from air carriers
- Current roadways and parking facilities require reconfiguration and expansion
- Current Official Community Plan (OCP) zoning should be preserved
- More commercial land (on airport) is needed
- New aerodrome regulations will impact planning
- Additional land (off airport) will need to be acquired

2045 Master Plan Overview

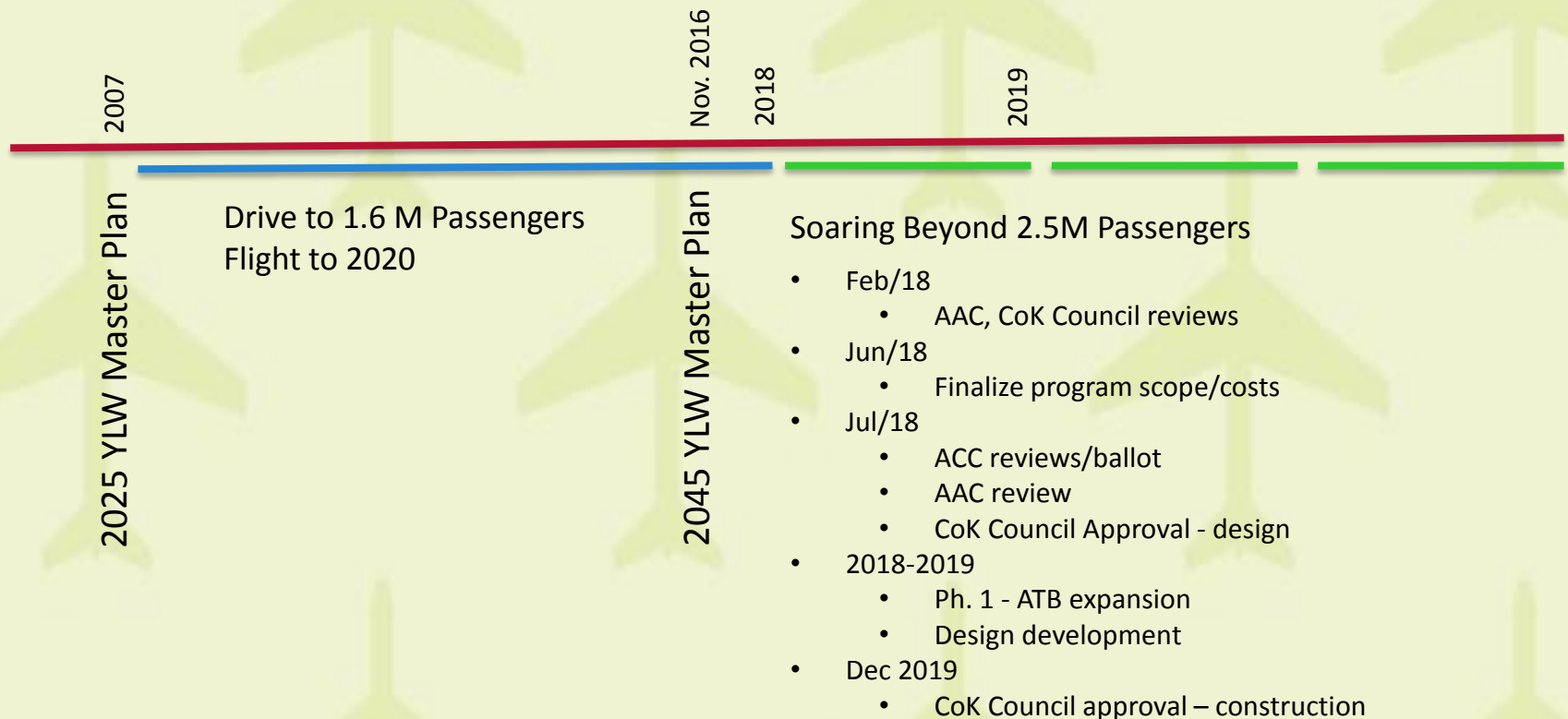
➤ "What we heard"

Full Survey - Rating of Top Priorities/Concerns

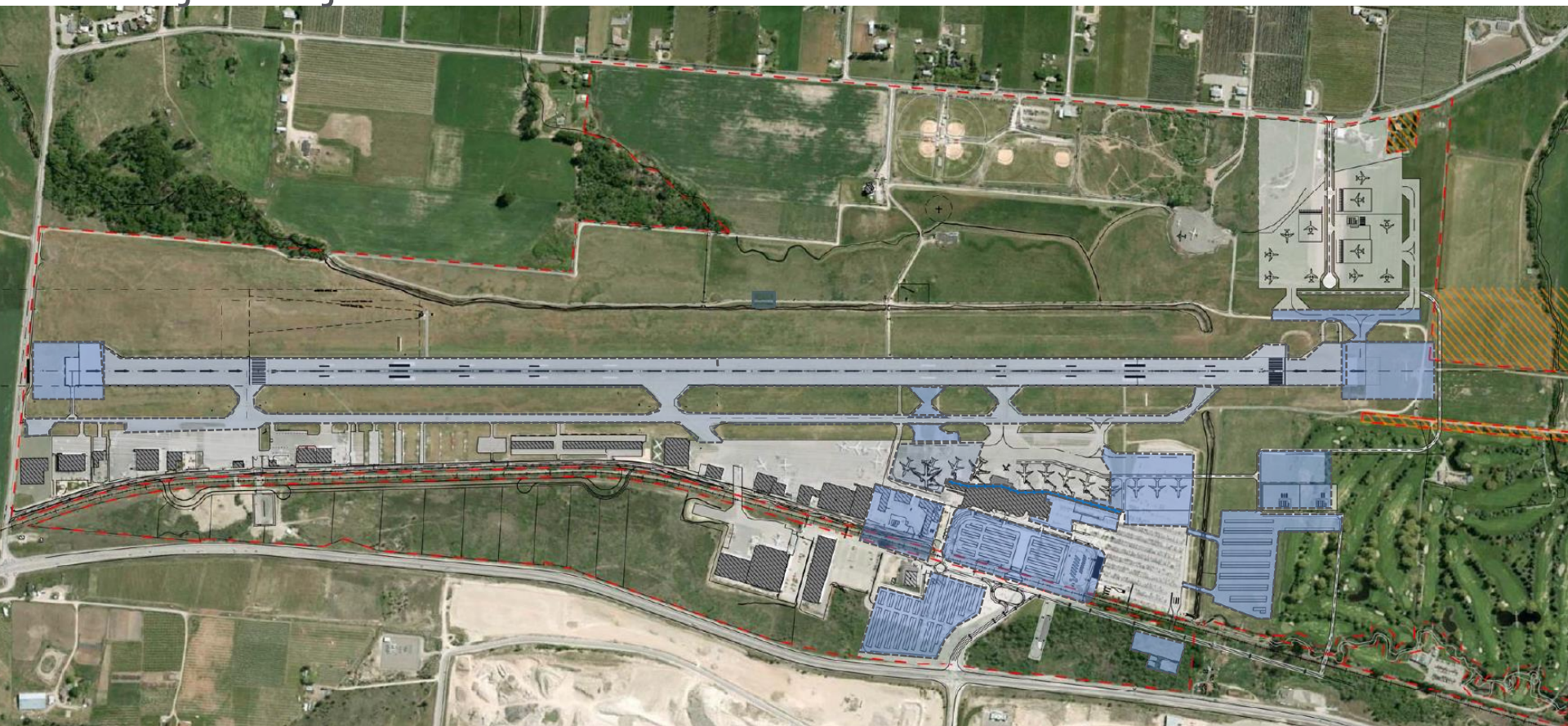


Soaring Beyond 2.5 Million Passenger Program

➤ Timeline



Major Projects



Runway End Safety Areas
Airfield Pavement Rehabilitation
New Taxiways

Apron Expansion/GSE
Hazardous Material Secondary Capture
Aviation Support Services
COB / NPSV Reconfiguration

Terminal Expansion
Improved Airside Connectivity
Self Serve Baggage Drop/ CUSS / CUTE
Terminal Access and Landside Improvements
Parking Expansions

Air Terminal Building Expansion

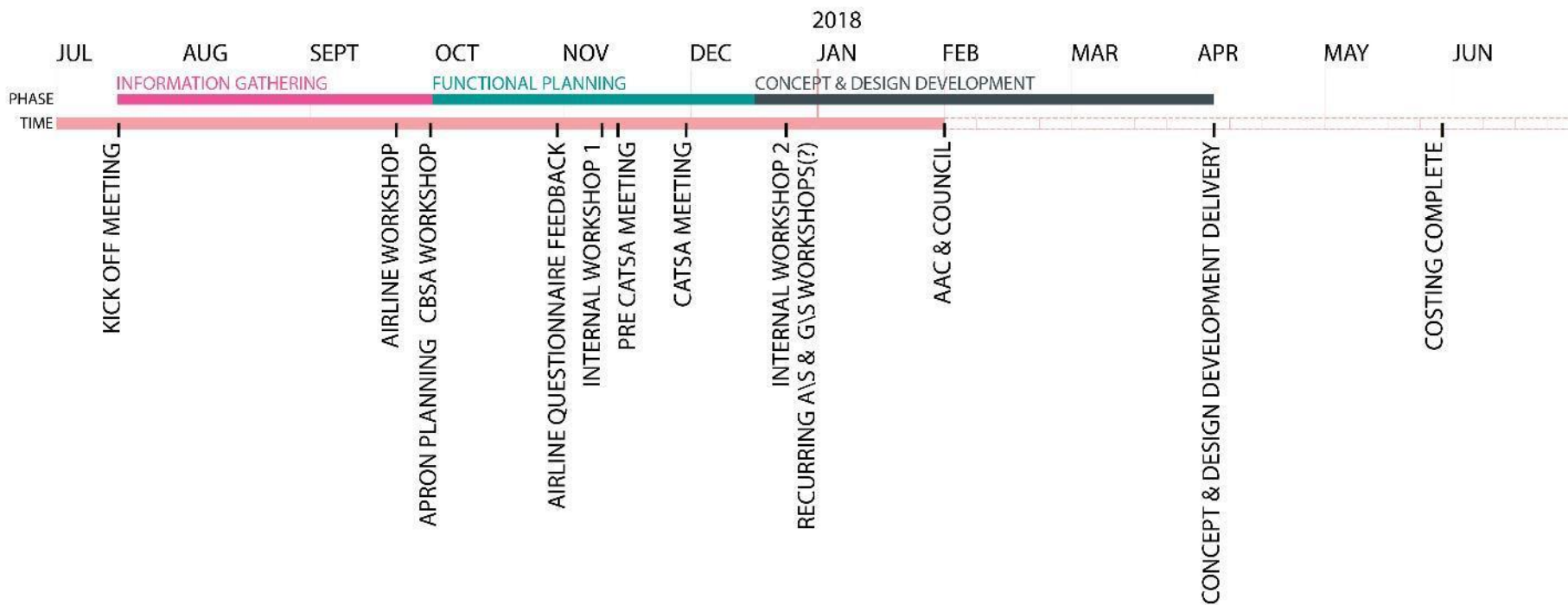
- Timeline
- Current capacity issues
- Stakeholder feedback
- Phases
- Priorities



YLW AIR TERMINAL PROJECT OVERVIEW

FEBRUARY 01, 2018

01 TIMELINE



01

MASTER PLAN REPORT Insufficient Capacity Today

Gate 1

Gate 2

Gate 3

Gate 4

Gate 5

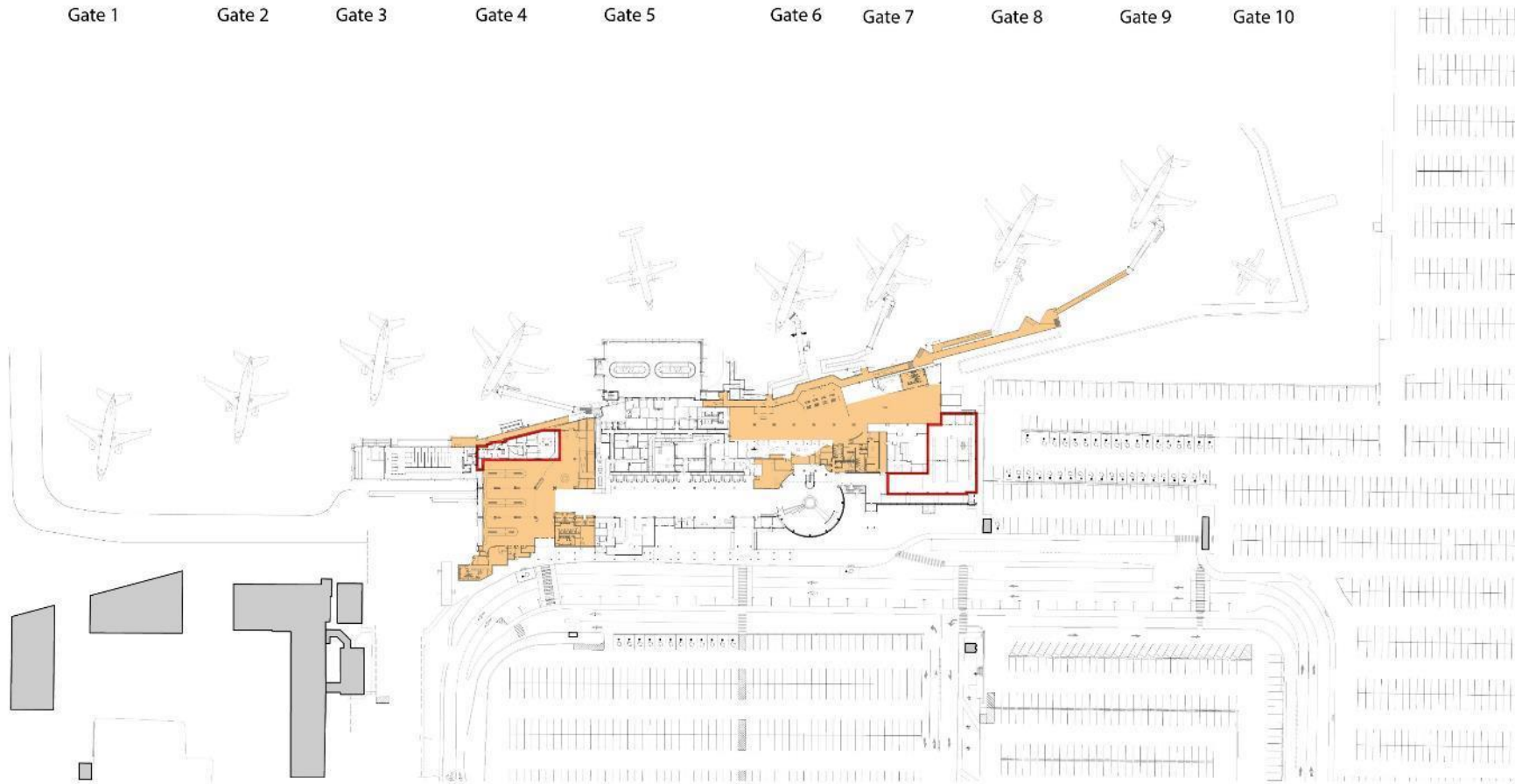
Gate 6

Gate 7

Gate 8

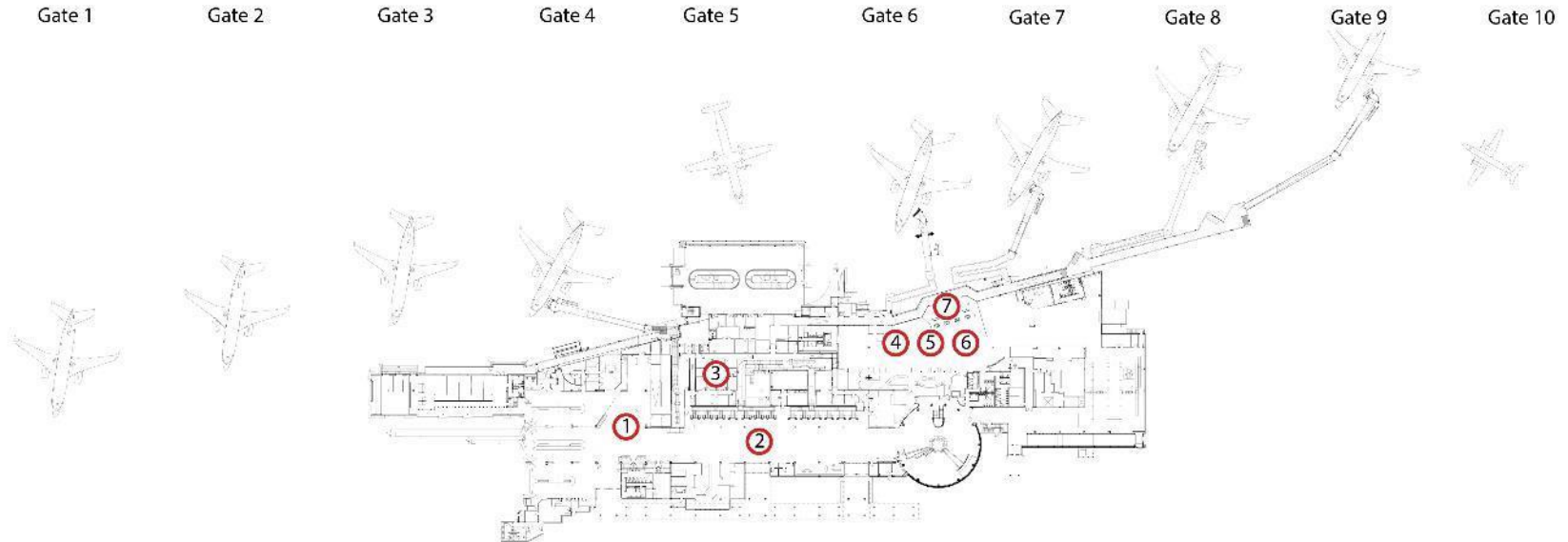
Gate 9

Gate 10



02 STAKEHOLDER FEEDBACK

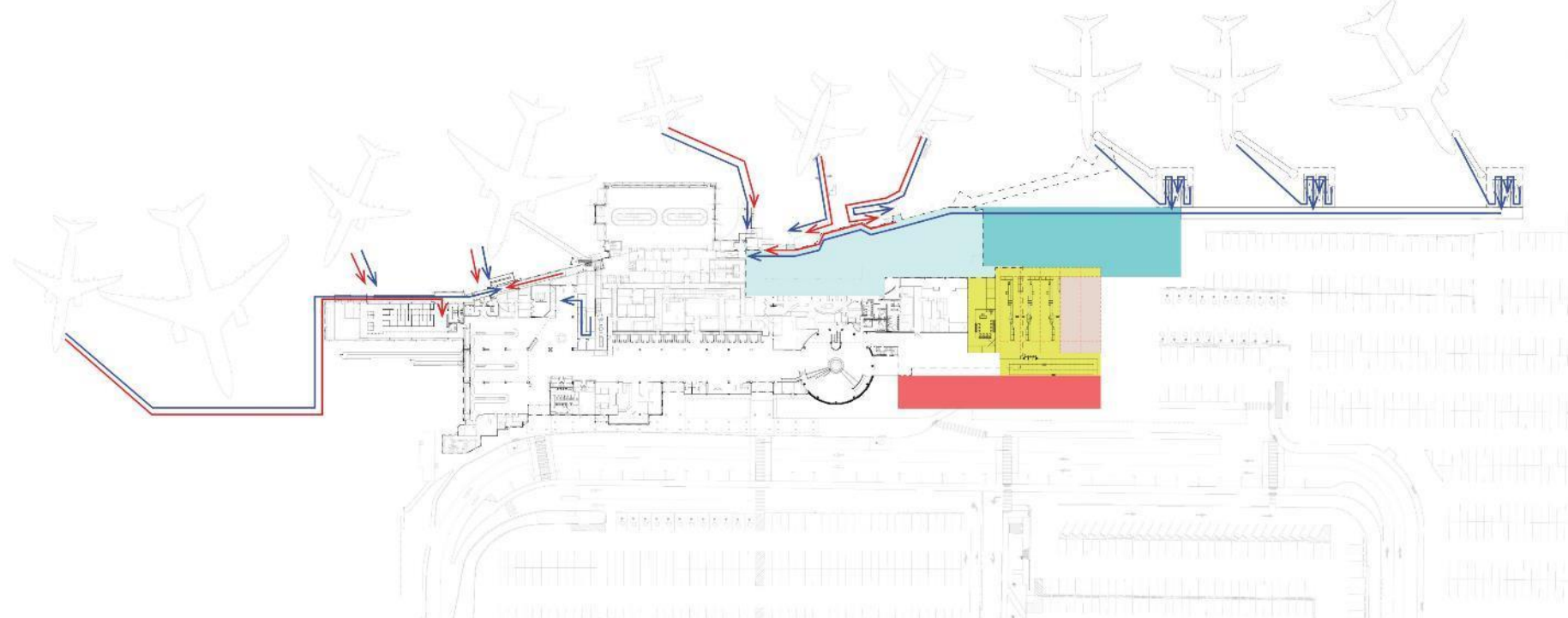
What we have learned so far



- ① Location at oversized baggage and current arrivals area is congested when volume of passengers is high.
- ② Better signage and wayfinding to direct passengers to security and washrooms
- ③ Storage and office space will be required in the future, but specific amounts could not be confirmed at this time.
- ④ Current podium layout in hold room is highly congested, noisy and causes confusion for passengers
- ⑤ More direct relationship to podium and gate is desired with increased view to airside
- ⑥ More storage space for wheelchairs at gates is needed
- ⑦ Passengers have trouble navigating the airside corridor and often get lost, board the wrong plane, and leave secure area accidentally

03 ATB - PHASE 1 Main Floor Plan

Gate 1 Gate 2 Gate 3 Gate 4 Gate 5 Gate 6 Gate 7 Gate 8 Gate 9 Gate 10



International Arriving
Passengers



Domestic Arriving
Passengers



Gate 1,2,3,5

- Domestic ground loaded
- International ground loaded

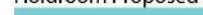
Gate 8,9,10

- Domestic ground loaded
- Domestic bridge loaded

Gate 4,6,7

- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

Holdroom Proposed



Holdroom Existing



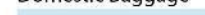
PBS



Landside Concourse



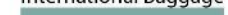
Domestic Baggage



Office Space



International Baggage



CBSA PIL & Secondary



Support & Storage



Phase Scope



omb office of mcFarlane biggar
architects + designers

YLV Kelowna
International
Airport

KELOWNA INTERNATIONAL AIRPORT

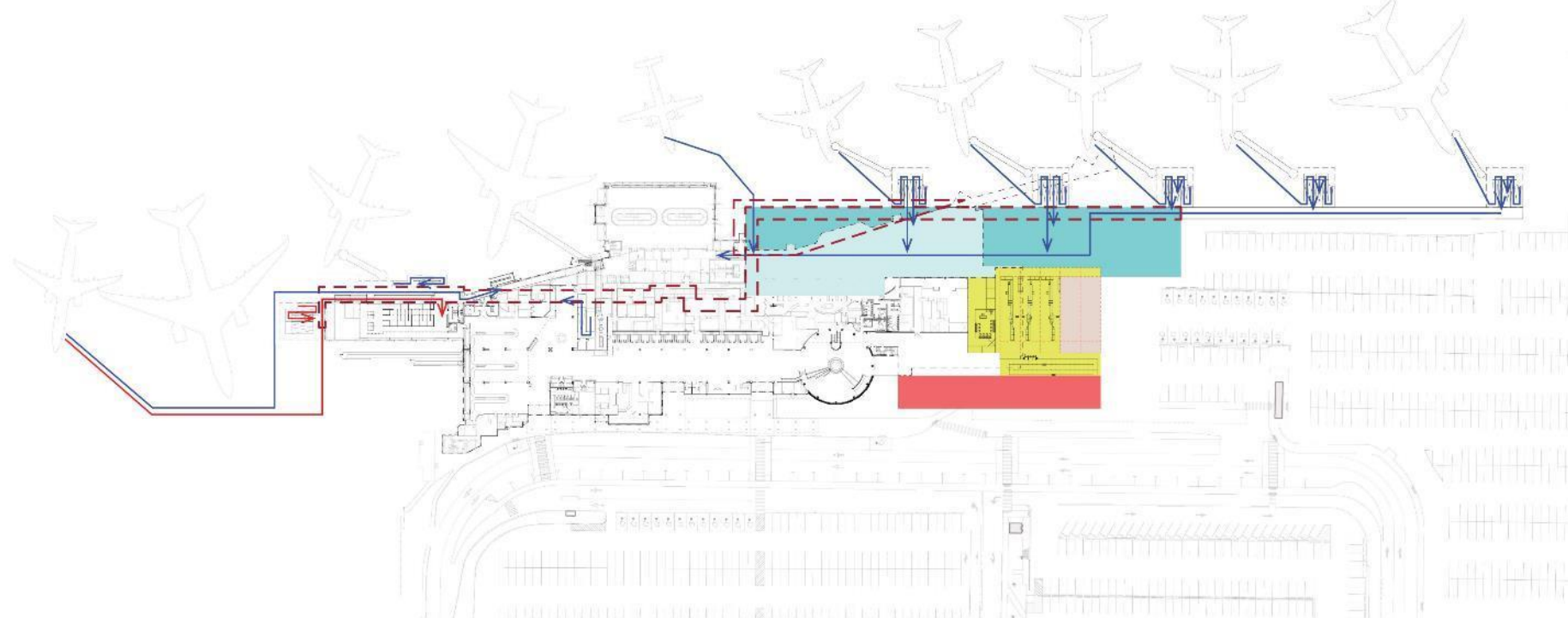
Air Terminal Building

YLV ATB PROJECT OVERVIEW - FEB. 01, 2018



04 ATB - PHASE 2 Main Floor Plan

Gate 1 Gate 2 Gate 3 Gate 4 Gate 5 Gate 6 Gate 7 Gate 8 Gate 9 Gate 10



International Arriving
Passengers



Domestic Arriving
Passengers



Gate 1&2

- Domestic ground loaded
- International ground loaded

Gate 4,6,9,10

- Domestic ground loaded
- Domestic bridge loaded

Gate 5

- Domestic ground loaded

Gate 3,7,8

- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

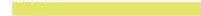
Holdroom Proposed



Holdroom Existing



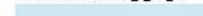
PBS



Landside Concourse



Domestic Baggage



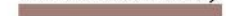
Office Space



International Baggage



CBSA PIL & Secondary



Support & Storage



Phase Scope



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architects + designers



KELOWNA INTERNATIONAL AIRPORT

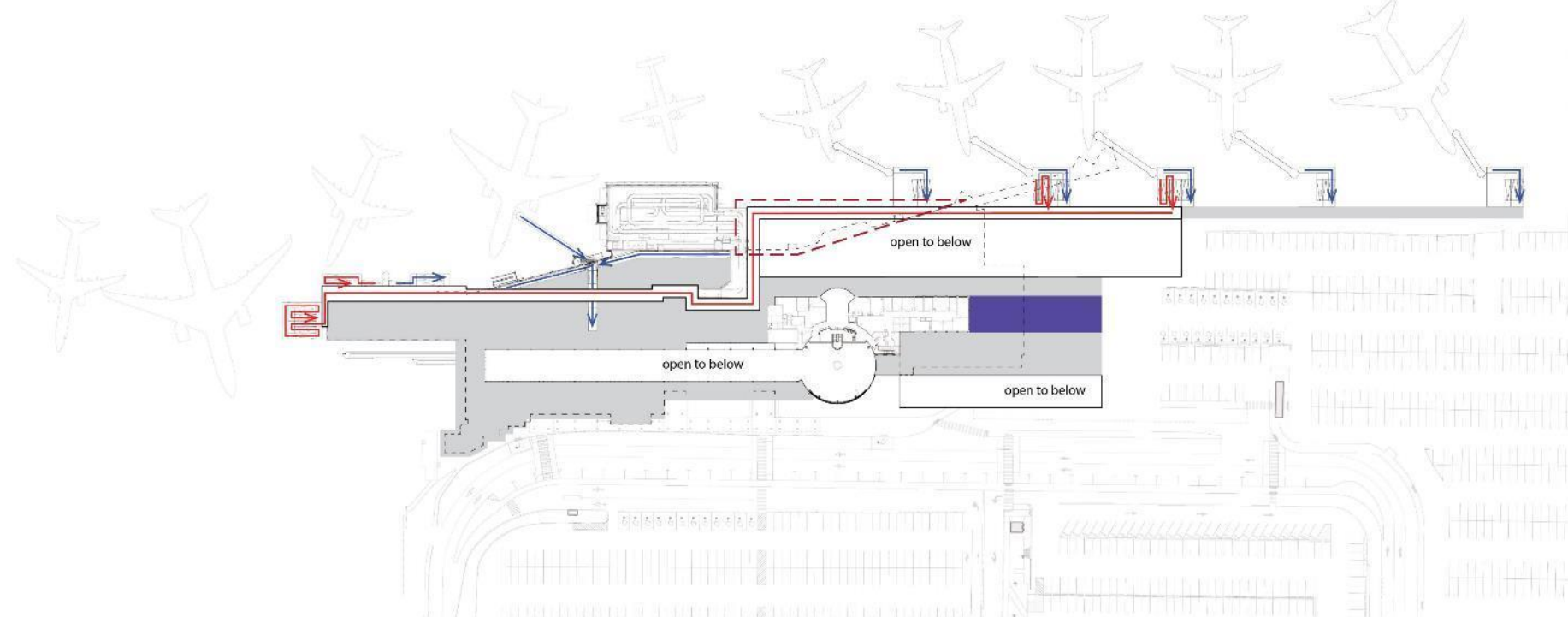
Air Terminal Building

YLW ATB PROJECT OVERVIEW - FEB. 01, 2018



04 ATB - PHASE 2 Upper Floor Plan

Gate 1 Gate 2 Gate 3 Gate 4 Gate 5 Gate 6 Gate 7 Gate 8 Gate 9 Gate 10



International Arriving
Passengers

Domestic Arriving
Passengers

Gate 1&2

- Domestic ground loaded
- International ground loaded

Gate 4,6,9,10

- Domestic ground loaded
- Domestic bridge loaded

Gate 5

- Domestic ground loaded

Gate 3,7,8

- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

Holdroom Proposed

Holdroom Existing

PBS

Landside Concourse

Domestic Baggage

Office Space

International Baggage

CBSA PIL & Secondary

Support & Storage

Phase Scope

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architects + designers



KELOWNA INTERNATIONAL AIRPORT

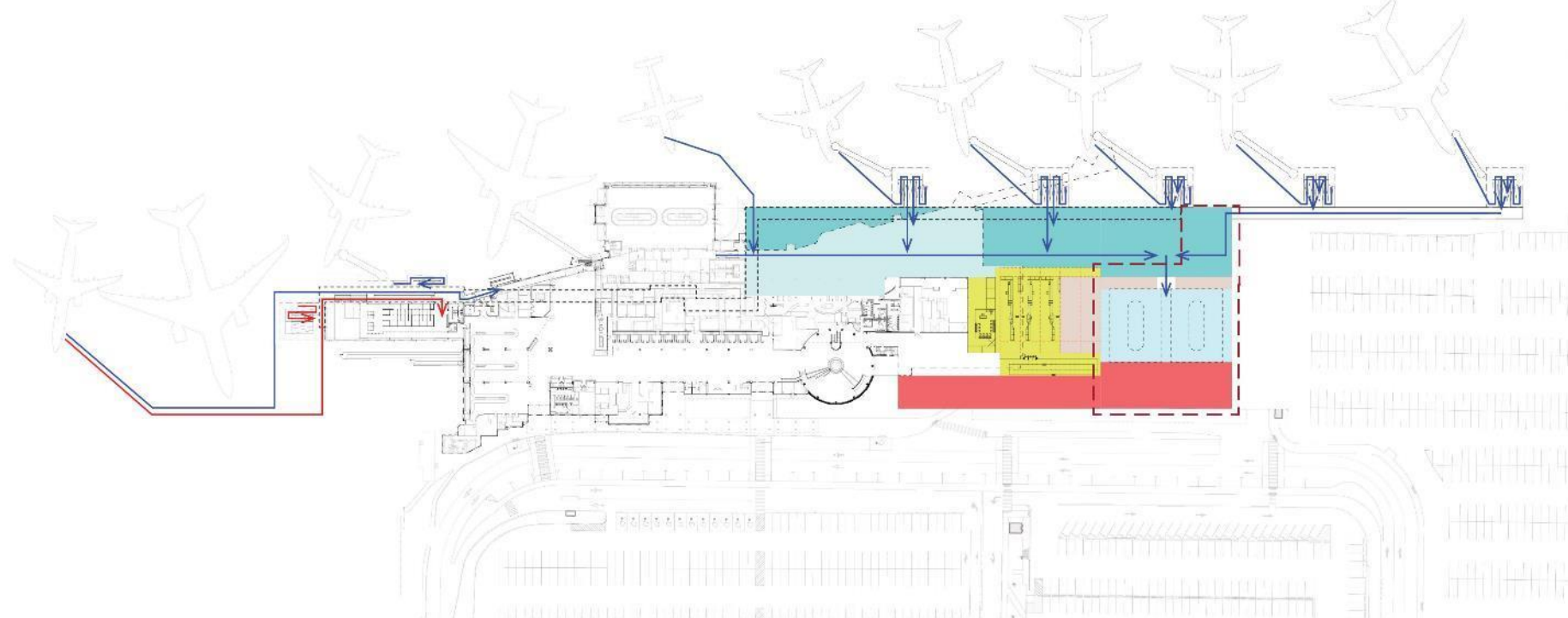
Air Terminal Building

YLW ATB PROJECT OVERVIEW - FEB. 01, 2018



05 ATB - PHASE 3 Main Floor Plan

Gate 1 Gate 2 Gate 3 Gate 4 Gate 5 Gate 6 Gate 7 Gate 8 Gate 9 Gate 10



International Arriving
Passengers



Domestic Arriving
Passengers



Gate 1&2

- Domestic ground loaded
- International ground loaded

Gate 4,6,9,10

- Domestic ground loaded
- Domestic bridge loaded

Gate 5

- Domestic ground loaded

Gate 3,7,8

- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

Holdroom Proposed



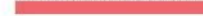
Holdroom Existing



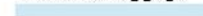
PBS



Landside Concourse



Domestic Baggage



Office Space



International Baggage



CBSA PIL & Secondary



Support & Storage



Phase Scope



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KELOWNA INTERNATIONAL AIRPORT

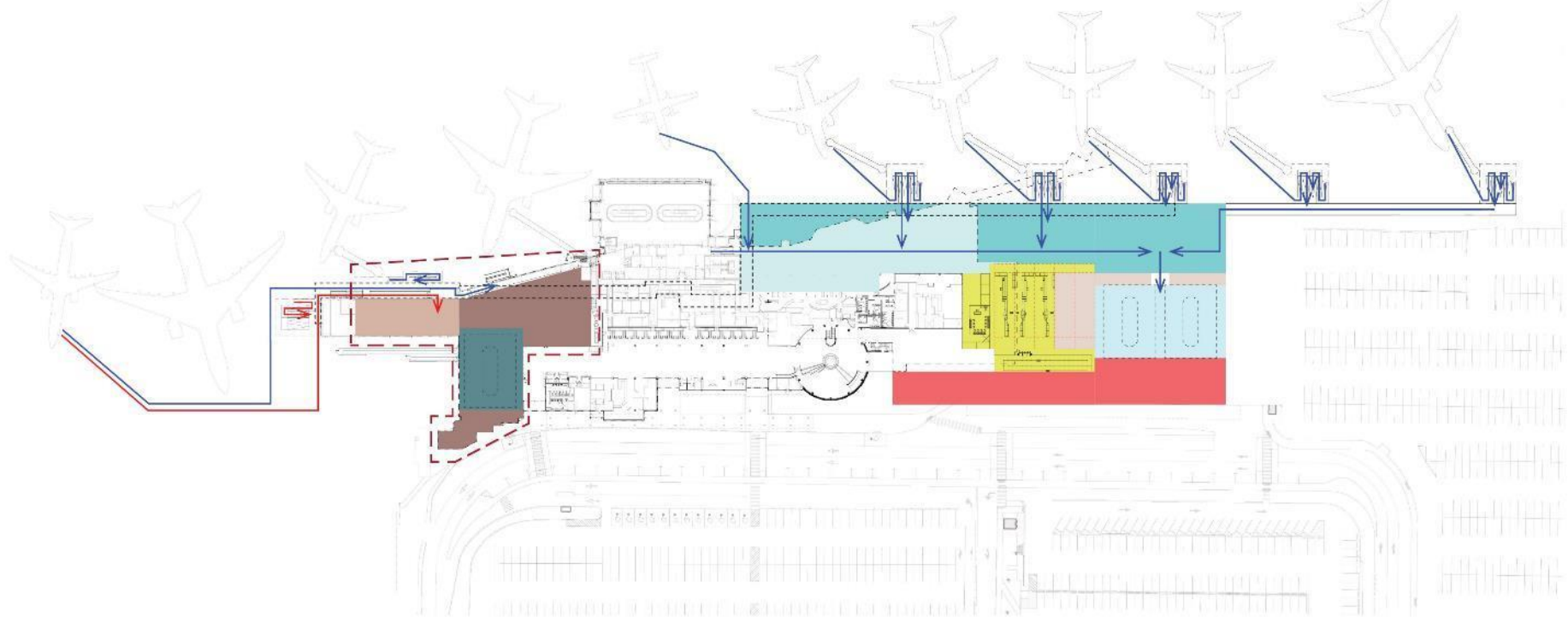
Air Terminal Building

YLW ATB PROJECT OVERVIEW - FEB. 01, 2018



06 ATB - PHASE 4 - NORTH/SPLIT OPTION Main Floor Plan

Gate 1 Gate 2 Gate 3 Gate 4 Gate 5 Gate 6 Gate 7 Gate 8 Gate 9 Gate 10



International Arriving
Passengers



Domestic Arriving
Passengers



Gate 1&2

- Domestic ground loaded
- International ground loaded

Gate 4,6,9,10

- Domestic ground loaded
- Domestic bridge loaded

Gate 5

- Domestic ground loaded

Gate 3,7,8

- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

Holdroom Proposed



Holdroom Existing



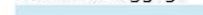
PBS



Landside Concourse



Domestic Baggage



Office Space



International Baggage



CBSA PIL & Secondary



Support & Storage



Phase Scope



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YLV Kelowna
International
Airport

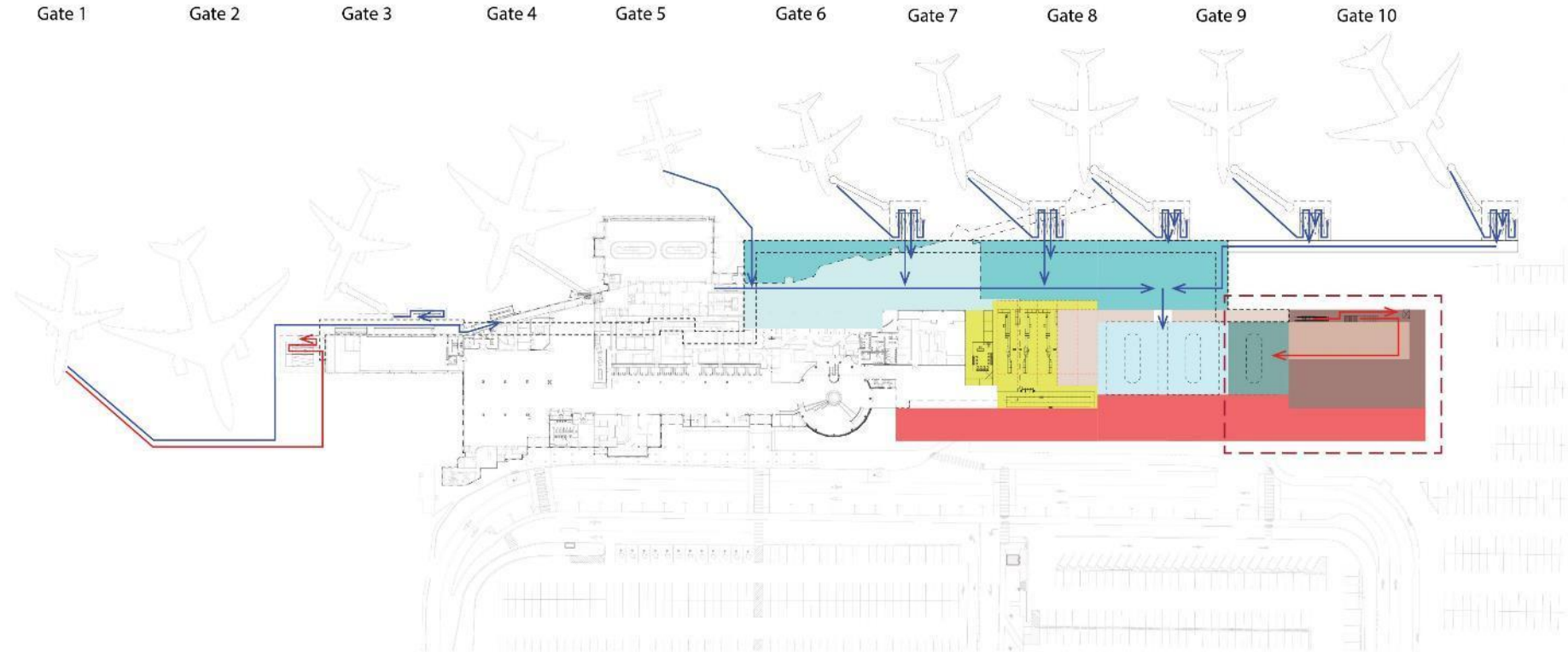


KELOWNA INTERNATIONAL AIRPORT

Air Terminal Building

YLV ATB PROJECT OVERVIEW - FEB. 01, 2018

06 ATB - PHASE 4 - SOUTH/CONSOLIDATED OPTION Main Floor Plan



International Arriving
Passengers

Domestic Arriving
Passengers

Gate 1&2
- Domestic ground loaded
- International ground loaded

Gate 4,6,9,10
- Domestic ground loaded
- Domestic bridge loaded

Gate 5
- Domestic ground loaded

Gate 3,7,8
- Domestic ground loaded
- Domestic bridge loaded
- International ground loaded
- International bridge loaded

Holdroom Proposed

Holdroom Existing

PBS

Landside Concourse

Domestic Baggage

Office Space

International Baggage

CBSA PIL & Secondary

Support & Storage

Phase Scope

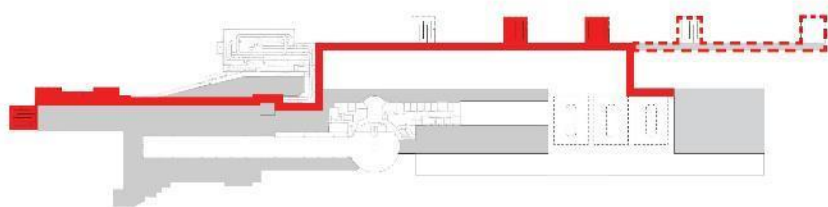
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KELOWNA INTERNATIONAL AIRPORT
Air Terminal Building
YLB ATB PROJECT OVERVIEW - FEB. 01, 2018

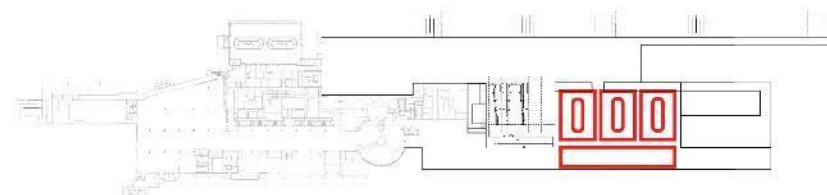
07 YLW MASTER PLAN REPORT RECOMMENDATIONS

Top Priorities



Offer More Direct Flights
and Flights Overseas

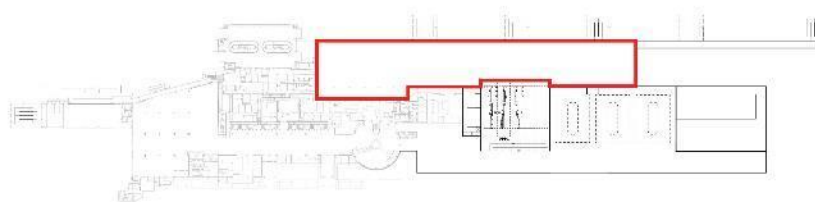
Airside corridor reconfiguration allows for more international gates to be added in future.



Improved Arrivals
Area and Expanded
Baggage Carousels



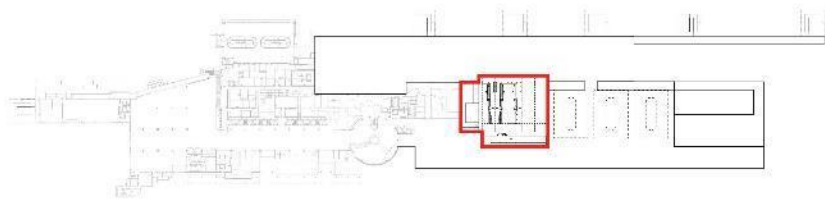
New arrivals area adjacent to new baggage carousels.



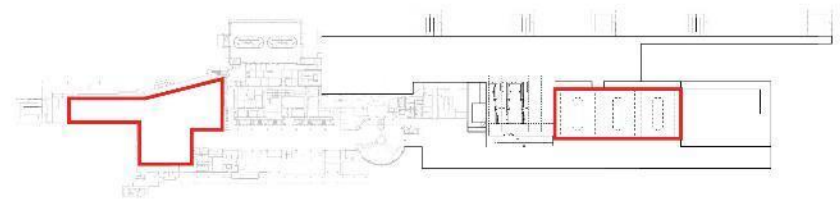
Expanded departures lounge offers more space for food and beverage choices.

07 YLW MASTER PLAN REPORT RECOMMENDATIONS

Top Priorities

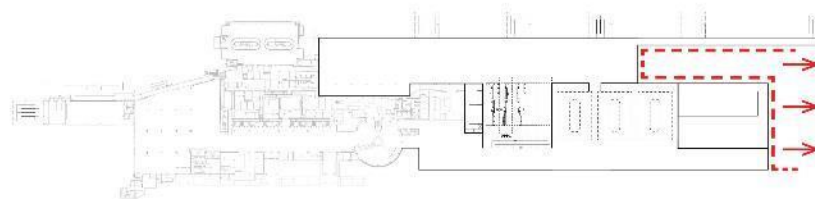


Space allocated for expanded PBS area.



Keeping Service Fees Low

Swing baggage carousels offer flexibility, and space at both end can be used for other purposes.



Future expansion beyond the master plan can continue south.

Air Terminal Building Expansion

Questions?