New Terminal Design Concept

Presentation Agenda:

• Recap of
  o Current Facility
  o Current/Future Needs

• Alternatives & Associated Costs

• New Terminal Concept
Current Facility:

- FAA Master Plan acknowledges challenges:
  - Check-point, counter space and interior size
  - Accessibility issues
    - Restaurant
    - Airport Manager’s Office
    - Conference/Meeting room
  - ADA/Independent Living

Services report to Chamber
Current Facility:

- FAA Master Plan acknowledges challenges:
  - Security Assurance (General Aviation / Commercial traffic)
Current / Future Needs of the Facility:

- FAA Master Plan projects increase in traffic:

  Current Hold Room
  1 Gate

<table>
<thead>
<tr>
<th>Year</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>9,000</td>
</tr>
<tr>
<td>2011</td>
<td>40,000</td>
</tr>
</tbody>
</table>

Table 2-6
ENPLANEMENT PROJECTIONS

- 2008 COU enplanements provided by airline/airport.
- Historical Enplanements
- TAF
- Enhanced Air Service
- Greatly Enhanced

9,000 (2007) 40,000 (2011)
Current / Future Needs of the Facility:

- **FAA Master Plan projects increase in traffic:**

  - **Current Hold Room:**
    - 1 Gate
    - In 20 yrs. will need Hold Room & 3 Gates (min)

  - **Mayor McDavid’s 2020 Goal:**
    - 40% market share capture
    - 2011 at 12%

**Table 2-6**

<table>
<thead>
<tr>
<th>Year</th>
<th>Historical Enplanements</th>
<th>TAF</th>
<th>Enhanced Air Service</th>
<th>Greatly Enhanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>1977</td>
<td>9,000 (2007)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2027</td>
<td>40,000 (2011)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2008 COU enplanements provided by airline/airport.
Alternatives to Meeting the Facility Needs:

- Do nothing
  - Opportunity costs
  - Growing Operations & Maintenance costs
  - Not meeting the needs of changing demographic
  - Security (General Aviation and Commercial)
Alternatives to Meeting the Facility Needs:

- RS&H Report considered (in 2018 dollars)
  - North Renovation ($34.0M)
  - South Expansion ($24.6M)

North Development Alternative

South Development Alternative
Alternatives to Meeting the Facility Needs:

- **PB’s New Terminal / Greenfield**
  - Initial Construction (3 Gates, 80,000 enplanement capacity)
  - $33.7M in 2018 project costs

- **Comparison of Alternatives:**

<table>
<thead>
<tr>
<th></th>
<th>Do Nothing</th>
<th>North Renovation</th>
<th>South Expansion</th>
<th>New Greenfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Costs (2018)</td>
<td>$34.0M</td>
<td>$24.6M</td>
<td>$33.7M</td>
<td></td>
</tr>
<tr>
<td>Passenger Space Met</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Construction Phasing</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Operational/Energy Efficient</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Security Assurances</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
</tbody>
</table>
Columbia Regional Airport: New Terminal Design

**Site Plan: Initial Build-Out**

**Legend**

A. Airport Terminal
B. Aircraft Apron
C. Aircraft Rescue and Fire Fighting Building (ARFF)
D. Stormwater Detention Basin
E. Surface Parking (450 spaces)
F. On-Site Energy Production (Solar Farm)
G. Water Quality Feature
H. Prairie Habitat Restoration
I. Underground Rainwater Harvesting Cistern
J. Shuttle / Taxi
K. Drop off / Pick-up
L. Relocate Runway 13/31 & Taxiway End
M. Landscaped Terminal Frontage
N. New Access Roads
O. Access Road Removal
P. Relocated State Rte. H
Q. State Rte. H Removal
R. Extension of Runway 2/20
S. Landscaped Solar Power Plant with Art Elements
T. Employee Parking (60 spaces)
U. Fuel Farm / Apron Access
V. V. Gas Station

**Key Features**

- **Solar/Geothermal Farm**
- **Landscape Art Incorporation**
- **Building Orientation (LEED)**
- **3 Gates**
- **1 Narrow Body**
- **2 RJs**
- **Water Quality/Detention**
Columbia Regional Airport: New Terminal Design

Site Plan: Full Build-Out

- New Entrance
- Commercial Lots
- Parking Garage
- 6 Gates
- 2 Narrow Body
- 4 RJs

Entrance
Monument Sign

Entrance
Monument Sign

TSA Setback (300')

Parking Garage

New Entrance

Commercial Lots

6 Gates

2 Narrow Body

4 RJs
Columbia Regional Airport: New Terminal Design

Level 2 Floor Plan

LEGEND

A  Kitchen
B  Elevators
C  Restaurant / Bar
D  Colonnade
E  Security
F  Screening
G  Security
H  Toilet
J  TSA Support Area
K  Administration
L  Hold Room
M  Gate
N  Return Flight Corridor
O  Open to Below
P  Retail
S  Storage
W  Art Feature
XL  Future Expansion, Hold Room
XM  Future Expansion, Gate
Columbia Regional Airport: New Terminal Design

Interior Perspective
Next Steps – Planning (FAA) & Final Design

2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024

Realistic

Conservative

Terminal Planning and ALP Update*

Environmental Review (Cat Ex)*

Final Design and Bidding

12-18 mos
6-12 mos
9-12 mos

Complete Environmental (Cat Ex)

Complete Terminal Planning and ALP Update

Complete Design

Start Construction

End Construction

9-12 mos
6-12 mos
12-18 mos