



ERIE MUNICIPAL AIRPORT

***Airport Master Plan Update
Project Phase One
Introductory Meeting with Board of Trustees***

October 2012



About ADG

- ADG staff worked with FAA to obtain 'reliever' status nearly 25 years ago*
- ADG staff designed and oversaw construction of the airfield after Town purchase*
- ADG staff assisted with the previous Master Plan*
- ADG knows Elk and its uniqueness*
- ADG is a professional aviation consultancy in business since 1984*
- ADG has completed 80 planning projects in 12 states with strong similarities to this effort*



Airport Master Plan

Town of Erie, Colorado

ERIE MUNICIPAL AIRPORT



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Introduction

The primary purpose of the Airport Master Plan is to narrate and illustrate the planned phased development of the Airport as it grows over the next 20 years.

The Airport may change over the next few years and a new Airport Master Plan should be done. Although a good amount of airfield investment has been made, other future investments may be necessary.

The Airport Master Plan will evaluate and develop master plan concepts and recommendations that are workable. The Airport Master Plan is intended to be an integral part of the Town's overall planning, and is intended to ensure that development of the Airport occurs in a coordinated manner that would enhance the Airport and make it a more valuable public asset.

The Airport Master Plan process will use industry standard methods to objectively evaluate and assess the needs of airport users and communities from an aviation safety and cost-effectiveness perspective.

The Airport Master Plan will provide a framework for decision makers to sort through the difficult questions, and then use that framework to guide decisions regarding investment decisions.

Erie Municipal Airport is part of FAA's National Plan of Integrated Airport Systems (NPIAS) and the State of Colorado's system of airports. It is valuable on both a statewide and nationwide basis.

Expected project duration is twelve months with most of the work complete within seven months.



Erie Airport Master Plan Objectives

- Objective #1:** Comply with FAA design standards.
- Objective #2:** Maximize economic development opportunities.
- Objective #3:** Be environmentally-responsive.
- Objective #4:** The Master Plan for EIK and surrounding properties should be integral to the existing operations and facilities.
- Objective #5:** Future development of the airport should contribute to the image and commercial activity of the airport.
- Objective #6:** The development of the airport and associated properties should occur in a coordinated and comprehensive manner, to take maximum advantage of the assets of the Town and associated Counties.
- Objective #7:** The planning and development of the airport should be oriented to achieve the "highest and best" use of the site. Specific users and uses should be evaluated on a case by case basis. "Highest and best" use should be interpreted in terms of the following factors: Use of physical site assets, Economic benefit, Jobs created and salaries, Fiscal impact, contribution to the overall objectives of the Town.
- Objective #8:** The Airport Master Plan should be flexible to accommodate a range of potential aviation uses and non-aviation users.
- Objective #9:** Regional economic goals should be an important consideration in preparing a developmental strategy for the airport.
- Objective #10:** Airport development should be evaluated relative to both short and long term costs and benefits.
- Objective #11:** The Airport Master Plan should minimize off site impacts, particularly those affecting surrounding neighboring areas.



Erie Airport Master Plan Issues

Issue #1: Identify/Address TTF Issues

Issue #2: Protect Airspace/Dispose of Obstructions to Navigable Airspace

Issue #3: Ensure Runway 15-33 Length Adequacy

Issue #4: Identify Runway 15-33 Design Standards/Ensure Adequacy

Issue #5: Ensure Runway 15-33 Instrument Approach Capability Adequacy

Issue #6: Identify/Address Crosswind Runway 9-27 Need/Issues

Issue #7: Identify/Address Landside Needs

EMK
ERIE MUNICIPAL AIRPORT



Plan Participants and Roles

-Mayor and Board of Trustees

Consultation and decision-making

-EIK Public and Constituencies

Consultation at key project points planned to inform and seek comment

-EIK Airport Manager

ADG project contact, ADG answers to Mr. Hurd for project activities; primary information conduit to Town leadership and staff

-Town of Erie Staff

Public Works, Planning and Zoning, Community Development, Economic Development will advise and consult on project activities at key project points



Plan Participants and Roles

-FAA/CDOT

FAA will approve forecasts; FAA/CDOT will advise on project documents and consult at key project points; FAA will 'airspace' final planning effort

-Airport Manager's Advisory Group

Primary technical, economic and aviation-related advisory body for purposes of this planning

-ADG

ADG will prepare project documentation, guide project progress, solicit guidance, and work to build consensus from plan participants at key project points



Generally Speaking...

-An Airport Master Plan like this one:

is to be revised every 10 years or so, per FAA suggestion

Addresses grant assurance compliance and ever changing airport design standards

*Functions as a phased, (5, 10, 20 year) narrated plan, and a visual representation thereof, to accommodate anticipated growth **as Town leadership sees fit***

*Does **not** obligate development or dollars, but sets the ground work for future funding*

Identifies some opportunities, future challenges

Assists FAA and CDOT with their national and state planning

Demonstrates to current and potential aviation businesses that the Town is serious about economic development and the important role the airport serves in this regard



Master Plan Focus No 1

-Through the Fence (TTF)

-Both residential and commercial

*-**Important** to Elk's future*

*-Grant assurance (#5, #21, #22 and others), legal, financial, security, compatible land use, implications: address any existing insufficiencies and identify suitable future locations... work **closely** with FAA in this regard*

-Perimeter fencing to be addressed, particularly given the St. George incursion and potential results of upcoming WHA

-Demonstrates to current and potential aviation businesses that the Town is serious about economic development and the important role and the airport serves in this regard

An aerial photograph of an airport runway and taxiway. In the foreground, a sign with the letters 'A1' and the number '33' is visible. The runway is a long, straight strip of asphalt, and the taxiway is a shorter, perpendicular strip. The surrounding area is mostly flat and open, with some buildings and parking lots visible in the distance.

Master Plan Focus No 2

-Runway 15/33, Taxiway A

- Potential substantial changes to this portion of the airfield.*
- Planning will establish if Runway 15/33 needs to be (1) longer, (2) wider, (3) stronger, or (4) need for compliance and a host of other important design and airspace standards*
- Planning will establish if the Taxiway A needs to be (1) longer, (2) wider, (3) stronger, or (4) need for compliance and a host of other important design and airspace standards*
- Planning will establish need for a GPS-based Instrument Approach Procedure (IAP). An IAP is a pre-defined three dimension path for aircraft to safely operate in some inclement weather conditions*
- Demonstrates to current and potential aviation businesses that the Town is serious about economic development and the important role and the airport serves in this regard*



Master Plan Focus No 3

-Closed Runway Disposition

-Establish constituent desire for facility

-Establish eligibility (primarily via wind analysis), while acknowledging current FAA prerogative precludes funding

-Analysis to determine length, strength and appropriate design standards, obstruction identification and disposition

*-If, as a result of planning analysis, the Town elects to activate this landing area, it must be (1) design standards compliant and (2) **closely** coordinated with FAA and CDOT*

-Demonstrates to current and potential aviation businesses that the Town is serious about economic development and the important role and the airport serves in this regard

Project Workflow



Project Phase 1

Meeting Series No 1
Board of Trustees
Airport Manager's Advisory Group
Project Introduction to General Public

Working Paper No 1

Project Introduction - Airport Inventory	Area Socioeconomics	Forecasts of Aviation Demand
Airport and Area History	Land Use and Zoning	Based Aircraft Forecasts
Airport-Related Studies	Airport Design Criteria	Aircraft Operations Forecasts
Airfield and Area Inventory	Financial Data	Peak Period
Area Airports, Airspace and Navigational Aids		Operations Forecasts
Based Aircraft and Operations		Instrument Operations Forecast
		Forecast Summary

Meeting Series No 2
Airport Manager's Advisory Group
Board of Trustees

Project Phase 2

Action Necessary
FAA Forecast Approval

Working Paper No 2

Project Introduction - Airport Inventory	Area Socioeconomics	Forecasts of Aviation Demand	Facility Requirements and Capacity Analysis	Alternatives Analysis
Airport and Area History	Land Use and Zoning	Based Aircraft Forecasts	Airport Role and Service Level	Airside Alternatives
Airport-Related Studies	Airport Design Criteria	Aircraft Operations Forecasts	Local Airspace Capacity	Landside Alternatives
Airfield and Area Inventory	Financial Data	Peak Period	Airfield Requirements	Other Alternatives
Area Airports, Airspace and Navigational Aids		Operations Forecasts	Landside Requirements	Alternative Environmental Considerations
Based Aircraft and Operations		Instrument Operations Forecast	Compliance	Recommendation of Preferred Alternative
		Forecast Summary		

Meeting Series No 3
Airport Manager's Advisory Group
Planning and Zoning Board of Trustees
Open House

Project Phase 3

Action Necessary
Select Preferred Alternative(s)

Draft Erie Municipal Airport Master Plan

Project Introduction - Airport Inventory	Area Socioeconomics	Forecasts of Aviation Demand	Facility Requirements and Capacity Analysis	Alternatives Analysis	Phased Development and Cost Estimates	Airport Layout Plan Drawings
Airport and Area History	Land Use and Zoning	Based Aircraft Forecasts	Airport Role and Service Level	Airside Alternatives	Short-Term Improvements (2013-2017) {Capital Improvement Plan}	Airport Layout Plan Cover
Airport-Related Studies	Airport Design Criteria	Aircraft Operations Forecasts	Local Airspace Capacity	Landside Alternatives	Intermediate-Term Improvements (2018-2022)	Airport Layout Plan
Airfield and Area Inventory	Financial Data	Peak Period	Airfield Requirements	Other Alternatives	Long-Term Improvements (2023-2032)	Terminal Area Plans
Area Airports, Airspace and Navigational Aids		Operations Forecasts	Landside Requirements	Alternative Environmental Considerations	20-Year Financial Analysis	FAR Part 77
Based Aircraft and Operations		Instrument Operations Forecast	Compliance	Recommendation of Preferred Alternative		Runway Approach
		Forecast Summary				Runway Departure
						Runway Inner-Approach
						Off-Airport Land Use Plan
						On-Airport Land Use Plan
						Airport Property Map (Exhibit A)

Meeting Series No 4
Airport Manager's Advisory Group
Planning and Zoning Board of Trustees

Project Phase 4

Action Necessary
Approve Draft Airport Master Plan

Final Erie Municipal Airport Master Plan

Project Introduction - Airport Inventory	Area Socioeconomics	Forecasts of Aviation Demand	Facility Requirements and Capacity Analysis	Alternatives Analysis	Phased Development and Cost Estimates	Airport Layout Plan Drawings
Airport and Area History	Land Use and Zoning	Based Aircraft Forecasts	Airport Role and Service Level	Airside Alternatives	Short-Term Improvements (2013-2017) {Capital Improvement Plan}	Airport Layout Plan Cover
Airport-Related Studies	Airport Design Criteria	Aircraft Operations Forecasts	Local Airspace Capacity	Landside Alternatives	Intermediate-Term Improvements (2018-2022)	Airport Layout Plan
Airfield and Area Inventory	Financial Data	Peak Period	Airfield Requirements	Other Alternatives	Long-Term Improvements (2023-2032)	Terminal Area Plans
Area Airports, Airspace and Navigational Aids		Operations Forecasts	Landside Requirements	Alternative Environmental Considerations	20-Year Financial Analysis	FAR Part 77
Based Aircraft and Operations		Instrument Operations Forecast	Compliance	Recommendation of Preferred Alternative		Runway Approach
		Forecast Summary				Runway Departure
						Runway Inner-Approach
						Off-Airport Land Use Plan
						On-Airport Land Use Plan
						Airport Property Map (Exhibit A)

Project Completion
Airport Manager's Advisory Group
Board of Trustees
Town Resolution

Project Deliverables

Working Paper No 1 to the Airport Master Plan will consist of

- Chapter One - Project Introduction
- Chapter Two - Airport Inventory
- Chapter Three - Forecasts of Aviation Demand

Working Paper No 2 to the Airport Master Plan will consist of

- Chapter One - Project Introduction
- Chapter Two - Airport Inventory
- Chapter Three - Forecasts of Aviation Demand
- Chapter Four - Facility Requirements and Capacity Analysis
- Chapter Five - Alternatives Analysis

The Draft Erie Municipal Airport Master Plan will consist of

- Chapter One - Project Introduction
- Chapter Two - Airport Inventory
- Chapter Three - Forecasts of Aviation Demand
- Chapter Four - Facility Requirements and Capacity Analysis
- Chapter Five - Alternatives Analysis
- Chapter Six - Phased Development and Cost Estimates
- Chapter Seven - Airport Layout Plan Drawings

The Final Erie Municipal Airport Master Plan will consist of

- Chapter One - Project Introduction
- Chapter Two - Airport Inventory
- Chapter Three - Forecasts of Aviation Demand
- Chapter Four - Facility Requirements and Capacity Analysis
- Chapter Five - Alternatives Analysis
- Chapter Six - Phased Development and Cost Estimates
- Chapter Seven - Airport Layout Plan Drawings





Summarily...

- ADG believes that there are some relatively complex issues which need to be addressed
- ADG will make every effort to **simplify**; we believe successful execution of this planning depends upon meaningful participation and effective communication
- ADG does not have the all the answers, but we know how and/or from whom to seek insight
- ADG will likely have some ideas you will like, and some you may not. We believe the **process** of elimination is a valuable exercise and reveals the best course of action



Next Steps...

- ADG will coordinate with Airport Manager's Advisory Group*
- ADG will work with you and the Group to schedule and conduct a Project Introduction Meeting for the General Public*
- ADG will prepare Working Paper No 1 and Presentation Materials*
- ADG will meet with Airport Manager's Advisory Group to present Working Paper No 1*
- ADG will meet with you again to present Working Paper No 1*