



# FALCON FIELD AIRPORT

## AIRPORT MASTER PLAN

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## FY 2019-20 and Activity Highlights Airport Enterprise Fund Budget

	<u>FY2018-19</u>	<u>FY2019-20</u>
Operating Revenues:	\$4.4m	\$4.5m
Operating Expense:	\$2.9m	\$3.8m
Capital Improvements:	\$1.0m	\$1.2m

## **FY 2019-20 Airport Enterprise Fund Budget and Activity Highlights**

- **Increase funding for economic development to market & promote airport business development**
- **Maintain airfield at higher standard than other general aviation airports**
- **Maintain competitive fees/rates**
- **Remain financially self-sustaining**



## **FY 2019-20 Airport Enterprise Fund Budget and Activity Highlights**

### **New Hangar Construction:**

- **5,600 sf corporate hangar (Under Construction)**
- **8,300 sf corporate hangar (In Design Review)**
- **23-acre development with 340,000 sf large aircraft hangar space (In Design)**

**Completion: Late 2021**



## Purpose of the Master Plan

- Provides a visioning document to guide the City of Mesa and other decision makers regarding the future development of the Airport over the next 20 years.
- Evaluates the Airport's aviation demand potential.
- Identifies and plans for capital improvement projects.
- Obtains approval of an updated Airport Layout Plan (ALP).
- Increases stakeholder/public awareness of the Airport.



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## AIRPORT MASTER PLAN

**TABLE 6A**  
**Planning Horizon Activity Levels**  
**Falcon Field Airport**

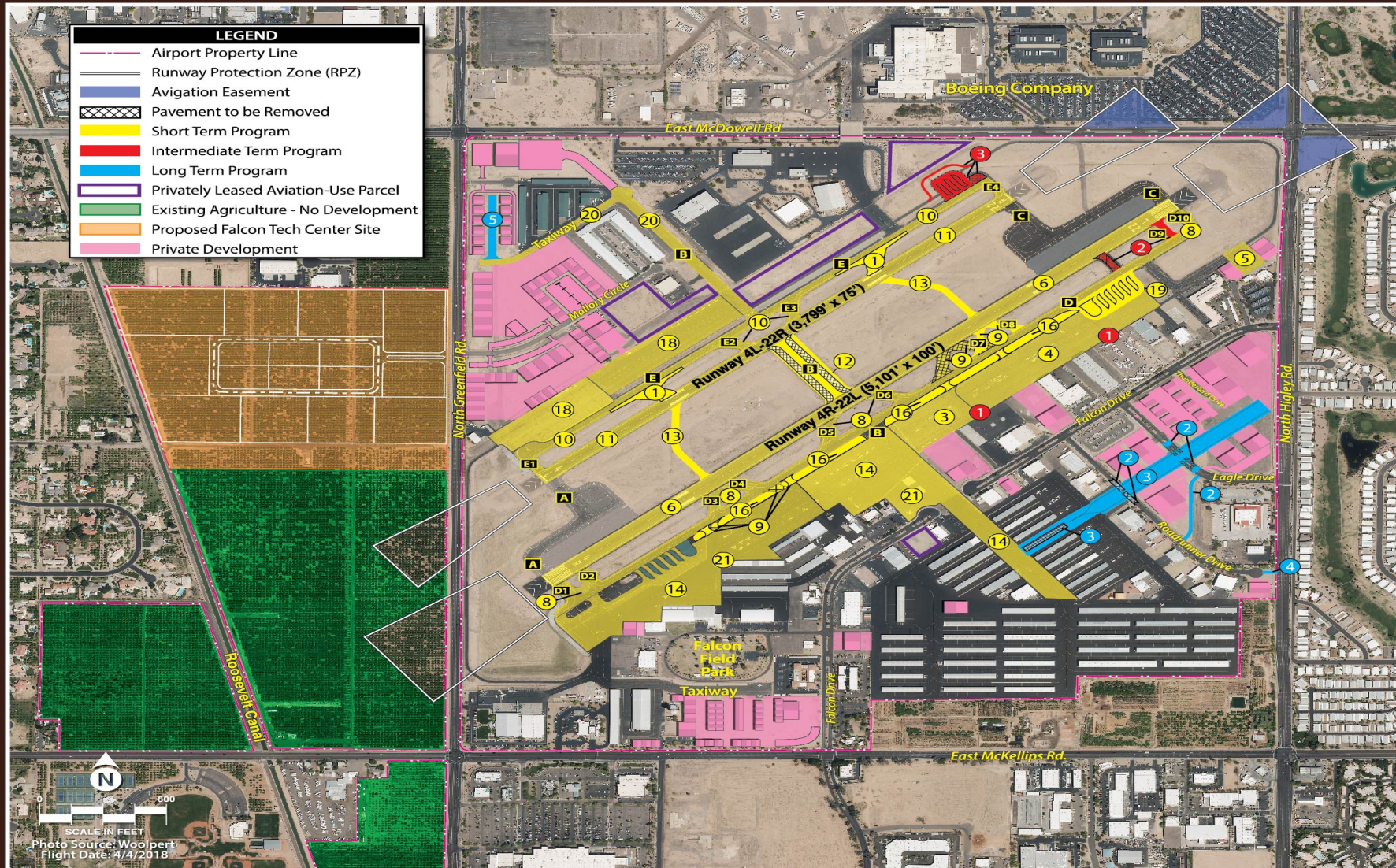
	Base Year	Short Term (Years 1-5)	Intermediate Term (Years 6-10)	Long Term (Years 11-20)
<b>BASED AIRCRAFT</b>				
Single Engine Piston	582	636	683	818
Multi-Engine Piston	76	74	72	68
Turboprop	14	22	32	48
Jet	7	10	17	30
Helicopter	39	47	60	75
Other (Glider)	1	1	1	1
<b>TOTAL BASED AIRCRAFT</b>	<b>719</b>	<b>790</b>	<b>865</b>	<b>1,040</b>
<b>ANNUAL OPERATIONS</b>				
<b>Itinerant</b>				
General Aviation	53,307	58,195	64,890	81,885
Air Taxi	67,638	69,422	72,924	80,546
Military	3,776	2,966	2,966	2,966
<b>Total Itinerant</b>	<b>124,721</b>	<b>130,583</b>	<b>140,780</b>	<b>165,397</b>
<b>Local</b>				
General Aviation	175,051	189,520	211,665	239,166
Military	420	330	330	330
<b>Total Local</b>	<b>175,471</b>	<b>189,850</b>	<b>211,995</b>	<b>239,496</b>
<b>TOTAL OPERATIONS*</b>	<b>300,200</b>	<b>320,400</b>	<b>352,800</b>	<b>404,900</b>

\*Total operations have been adjusted to account for the hours (9:00 p.m. - 6:00 a.m.) when the airport traffic control tower (ATCT) is closed and rounded to the nearest 100.



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Short Term Program (1-5 years)*	
1	Construct Acute-Angled Taxiway Exits on Runway 4L-22R
2	Update Storm Water Drainage Plan - Not Pictured
3	Higley Ramp West - Major Reconstruction
4	Higley Ramp East - 1" AC Overlay
5	Anzio Ramp - Reconstruct/Mill Overlay
6	Runway 4R-22L - Mill & AC Overlay
7	Design Midfield Taxiway B Improvements and Midfield Connector Taxiways - Not Pictured
8	Taxiway D and Connector Taxiways - 1" Overlay
9	Realign Taxiways D3, D4, D7, and D8
10	Taxiway E and Connector Taxiways - Mill & 1" AC Overlay
11	Runway 4L-22R - Mill & AC Overlay
12	Construct Midfield Taxiway B Improvements (Narrowing Taxiway and Enhanced In-Pavement Lighting for Hold Line Markings)
13	Construct Midfield Connector Taxiways Between Parallel Runway System
14	Falcon Ramp East/West and South Taxiway B - 1" Overlay
15	Design Holding Bays Adjacent to Taxiway D Serving Runway 22L - Not Pictured
16	Construct Paved No-Taxi Areas Adjacent to the South Side of Taxiway D
17	Design Falcon Ramp Phases 1 & 2 Ramp Lighting Improvements - Not Pictured
18	Echo Ramp East and West - 1" AC Overlay
19	Construct Holding Bays Adjacent to Taxiway D Serving Runway 22L
20	North and West Taxiway B Overlay
21	Construct Falcon Ramp Lighting (Phase 1)

Intermediate Term Program (6-10 Years)*	
1	Construct Additional Ramp Apron Lighting Improvements (Phase 2)
2	Relocate Taxiway D9
3	Construct Holding Bays Adjacent to Taxiway E Serving Runway 22R/Relocate Portion of Perimeter Access Road Adjacent to Holding Bays
4	Environmental Documentation (Cat Ex or EA) for Eastside Dual-Lane Taxilane Construction - Not Pictured
5	General Airfield Pavement Maintenance - Not Pictured

Long Term Program (11-20 Years)*	
1	Design Eastside Dual-Lane Taxilane - Not Pictured
2	Construct Roadway Connecting Eagle and Roadrunner Drives Reconfigure Existing Eagle and Roadrunner Drives for Eastside Taxilane
3	Construct Eastside Dual-Lane Taxilane (Multiple Phases) / Remove and Replace T-Hangar Complex
4	Extend Roadrunner Drive to North Higley Road
5	Construct Taxilane Extending North from Existing Taxiway Extending West of Taxiway B (Northwest Landside Development Area)
6	General Airfield Pavement Maintenance - Not Pictured



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## AIRPORT MASTER PLAN

	Total Project Cost	FAA Eligible	ADOT Eligible	Airport/Local Share
Short Term Program Total	\$16,809,900	\$11,278,970	\$4,539,865	\$991,065
Intermediate Term Program Total	\$2,855,200	\$2,599,960	\$127,620	\$127,620
Long Term Program Total	\$7,635,700	\$6,767,490	\$332,205	\$536,005
Capital Improvement Program Total	\$27,300,800	\$20,646,420	\$4,999,690	\$1,654,690

### **METHODOLOGY: Economic Benefits**

- Follow established FAA guidelines for economic benefit studies
- Survey on-airport businesses and public agencies to measure value of output, employment, and payrolls, for 2018 study period
- Include capital improvement spending as a source of benefits
- Identify “true transient” General Aviation activity and estimate visitor spending for overnight and one day visitors
- Use input-output analysis to estimate secondary multiplier or “ripple effects” that extend benefits across the regional economy

## SUMMARY OF ECONOMIC BENEFITS

Table D1 Summary of Economic Benefits Falcon Field Airport			
SOURCE	EMPLOYMENT	PAYROLL	OUTPUT
<b>Direct Economic Benefits</b>			
On-Airport Benefits: Activity by Aviation & Non-Aviation Private Firms, Government Agencies, Capital Improvement Projects	1,486	\$104,367,000	\$434,335,000
Air Visitor Benefits: Activity by General Aviation Travelers	133	\$3,984,000	\$15,544,000
<i>Direct Benefits</i>	<i>1,619</i>	<i>\$ 108,351,000</i>	<i>\$ 449,879,000</i>
<b>Secondary Economic Benefits</b>			
Indirect Benefits: Activity by Suppliers & Vendors	822	\$52,216,000	\$145,497,000
Induced Benefits: Activity by Employees as Consumers	1,568	\$77,107,000	\$216,301,000
<i>Secondary Benefits</i>	<i>2,390</i>	<i>\$129,323,000</i>	<i>\$361,798,000</i>
<b>Total Economic Benefits</b>			
<b>Total Benefits</b>	<b>4,009</b>	<b>\$237,674,000</b>	<b>\$811,677,000</b>

*Source: On-airport employment was obtained through on-site interviews and records maintained by Falcon Field administrative staff. Payroll figures based on Maricopa County wage data from U.S. Bureau of Labor Statistics Quarterly Census of Employment and Wages. Output estimates were computed from the IMPLAN input-output model, with coefficients for Maricopa County. Air visitor spending estimates were provided by Mesa Convention and Visitors Bureau and Longwoods International. Secondary benefits (indirect and induced) were computed from the IMPLAN model. All Values are in 2018 dollars.*



## AN AVERAGE DAY AT FALCON FIELD AIRPORT

Table D2 Economic Benefits for an Average Day Falcon Field Airport	
Activity	Average Day
All Aircraft Operations	767 Daily Aircraft Operations
On-Airport Employment	1,486 Workers on the Airport
On-Airport Payrolls	\$286,000 Paid to Airport Workers
General Aviation Air Visitors	215 Air Visitors in the Area Daily*
Air Visitor Spending	\$43,000 Daily Visitor Spending
Total Employment	4,009 Total Area Jobs Supported
Total Payrolls	\$651,000 Paid to Area Workers
Total Economic Benefits	\$2,224,000 Daily Economic Benefits

\*Includes overnight visitors as well as those who remain for only part of a day

# TOTAL BENEFITS INCLUDING THE BOEING CO: \$6.8 bil.

Table D8

## Economic Benefits Including the Boeing Company Falcon Field Airport

Source	Employment	Payroll	Annual Output
On-Airport	1,486	\$104,367,000	\$434,335,000
General Aviation Visitors	133	\$3,984,000	\$15,544,000
The Boeing Company	4,281	\$537,828,000	\$3,624,059,000
<i>Direct Benefits</i>	5,900	\$646,179,000	\$4,073,938,000
<i>Secondary Benefits</i>	17,284	\$984,563,000	\$2,759,654,000
<b>Total Economic Benefits</b>			
<b>Total Benefits</b>	<b>23,184</b>	<b>\$1,630,742,000</b>	<b>\$6,833,592,000</b>

*Source: On-airport data from employer interviews and Falcon Field Airport staff records; air visitor calculations from FAA arrival and departure flight records and FlightAware Flight Tracker system; visitor spending from Mesa Convention and Visitors Bureau; the Boeing Company employment from the Boeing Company; the Boeing Company payroll and output calculated from the IMPLAN input-output model.*



# ON-AIRPORT DIRECT ECONOMIC BENEFITS (Aviation + Non-Aviation Employers)

Airport	Employment	Output
Falcon Field	1,486	\$434,335,000
Scottsdale (+ Airpark)	1,406	\$284,211,000
Deer Valley	965	\$196,189,000
Goodyear	363	\$67,345,000
Chandler	163	\$32,522,000

*Source: Various Economic Benefit studies for individual airports*



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# QUESTIONS?

