

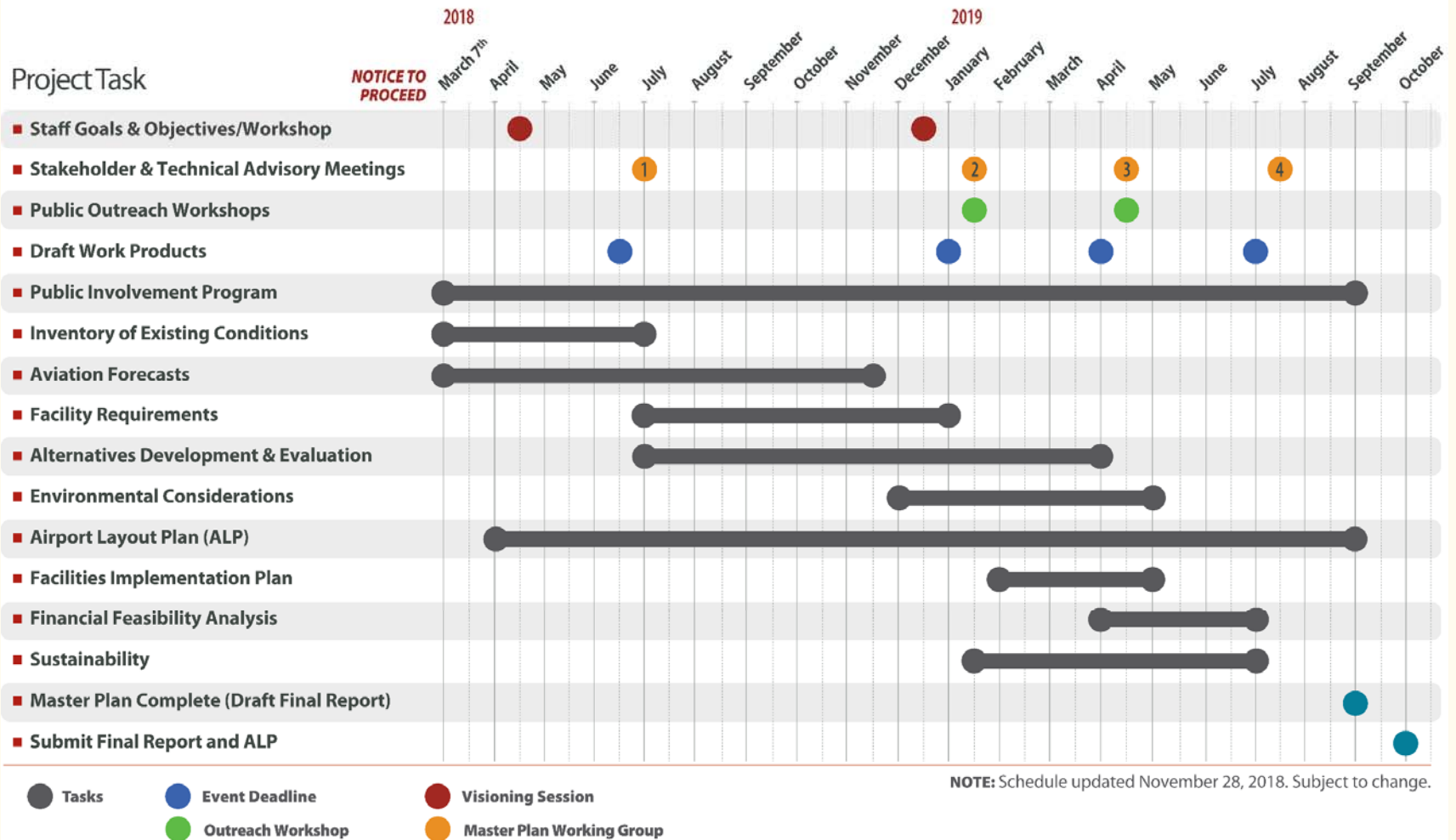
# Phoenix-Mesa Gateway Airport Master Plan- Airport Authority Board Briefing

*January 15, 2019*



Phoenix-Mesa  
**Gateway**  
Airport Master Plan

# Project Schedule Airport Master Plan



NOTE: Schedule updated November 28, 2018. Subject to change.

# Master Plan – Statement of Policy

- ✓ Anticipate What We Think Will Happen
- ✓ Influence What We Want to Happen



# Airport Master Plan- FAA Approved Forecast

## Enplanement Forecast:

2018 Total= 763,542

2023	2028	2038
924,667	1,022,420	1,245,211

## Total Operations Forecast:

2018 Total= 288,921

2023	2028	2038
316,712	333,028	369,744

## Total Based Aircraft Forecast:

2017 Actual = 109

2023	2028	2038
121	126	139





# Airfield Configuration

- ✓ Runway Orientation
- ✓ Airfield Operational Capacity
- ✓ Runway Length Analysis
- ✓ Runway Design and Dimensional Criteria
- ✓ Parallel Runway Separation
- ✓ Instrument Approach Capabilities
- ✓ Taxiway Design and Dimensional Criteria
- ✓ Parallel Taxiway Improvement Considerations
- ✓ Exit and Connecting Taxiways



# Passenger Terminal

- ✓ Inbound and Outbound Baggage
- ✓ Concourse Holdroom (Gates)
- ✓ Aircraft Parking
- ✓ Passenger Security Checkpoint
- ✓ Check-In Lobby (Ticketing)



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# Terminal Requirements Summary

Functional Area	Existing (supply) <sup>(a)</sup>	PAL 1 (2023)	PAL 2 (2028)	PAL 3 (2038)
<b>CHECK-IN (TICKETING)</b>				
Queue (sf)	4,500	3,550	3,700	4,350
Counters/Bag drops	32	26	27	31
<b>CHECKED BAGGAGE</b>				
EDS machines <sup>(b)</sup>	2 CT-80	3 MS-EDS	4 MS-EDS	4 MS-EDS
Makeup area (sf)	11,500	11,400	12,800	15,700
<b>SECURITY SCREENING CHECKPOINT</b>				
Queue (sf)	1,725	1,700	1,900	2,625
Lanes	5	5	5	5
<b>PASSENGER HOLDROOM</b>				
Holdroom (sf)	15,260	13,000	15,300	19,700
Podium, queueing, egress (sf)	3,950	3,150	3,675	4,725
<b>APRON (GATES)</b>				
	6 ADG III, 4 B757	8 ADG III	9 ADG III	11 ADG III
<b>BAGGAGE CLAIM (DEVICES)</b>				
	2	2	3	3

<sup>(a)</sup> Existing queues are estimated based on terminal drawings

<sup>(b)</sup> Requirement, which is based on a hypothetical medium speed inline system (MS-EDS), includes one EDS machine for redundancy



# Passenger Terminal Support Facilities

- ✓ Access Roadway System
- ✓ Passenger Parking System
- ✓ Rental Car Parking
- ✓ Employee Parking
- ✓ Cell Phone Lot



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# Public Parking Demand Forecasts

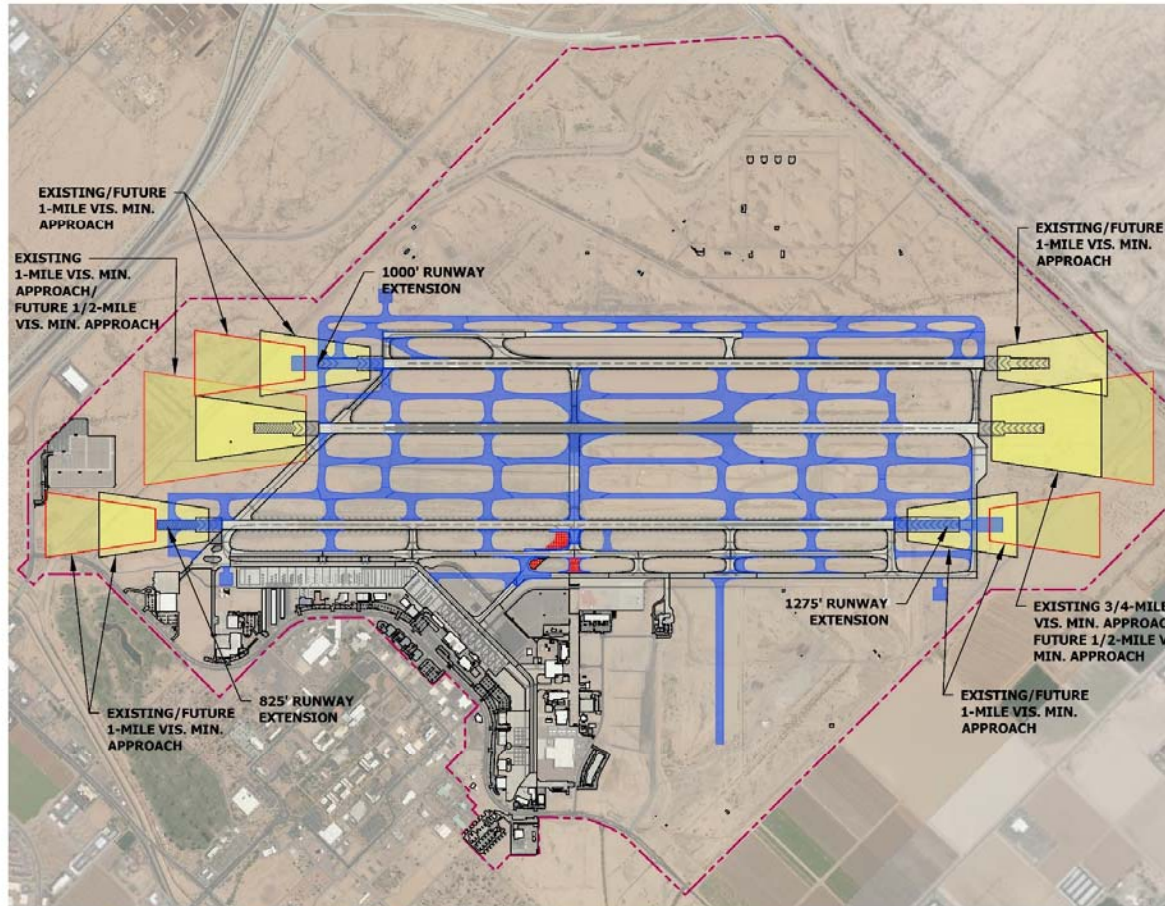
(Master Plan Projected Growth Rate)

Lot		FY 2018 Peak	Short – Term	Mid – Term	Long – Term
Hourly Express Lot	Supply	183	183	183	183
	Effective Supply	156	156	156	156
	Demand	194	242	265	326
	<b>Surplus/Deficit</b>	<b>-38</b>	<b>-86</b>	<b>-109</b>	<b>-170</b>
Daily Lot	Supply	871	871	871	871
	Effective Supply	740	740	740	740
	Demand	717	894	982	1,205
	<b>Surplus/Deficit</b>	<b>23</b>	<b>-154</b>	<b>-241</b>	<b>-465</b>
Ray Road Economy Lot	Supply	2,812	2,812	2,812	2,812
	Effective Supply	2,390	2,390	2,390	2,390
	Demand	747	931	1022	1255
	<b>Surplus/Deficit</b>	<b>1643</b>	<b>1459</b>	<b>1368</b>	<b>1135</b>
<b>Grand Total</b>	Supply	3,866	3,866	3,866	3,866
	Effective Supply	3,286	3,286	3,286	3,286
	Demand	1,658	2,067	2,270	2,787
	<b>Surplus/Deficit</b>	<b>1,628</b>	<b>1,219</b>	<b>1,017</b>	<b>499</b>



## Other Landside Facilities

- ✓ General Aviation Storage Facilities
- ✓ Corporate, Maintenance & Repair Facilities
- ✓ Fixed Base Operator (FBO) Facilities
- ✓ Air Cargo Facilities
- ✓ ARFF (Fire Fighting)/Airport Maintenance
- ✓ Airport Traffic Control Tower
- ✓ Fuel Storage



- Legend**
- Existing Runway Protection Zone
  - Future Runway Protection Zone
  - Future Runway/Taxiway Pavement
  - Future Taxiway Pavement Removed

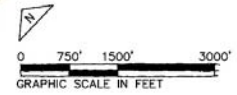

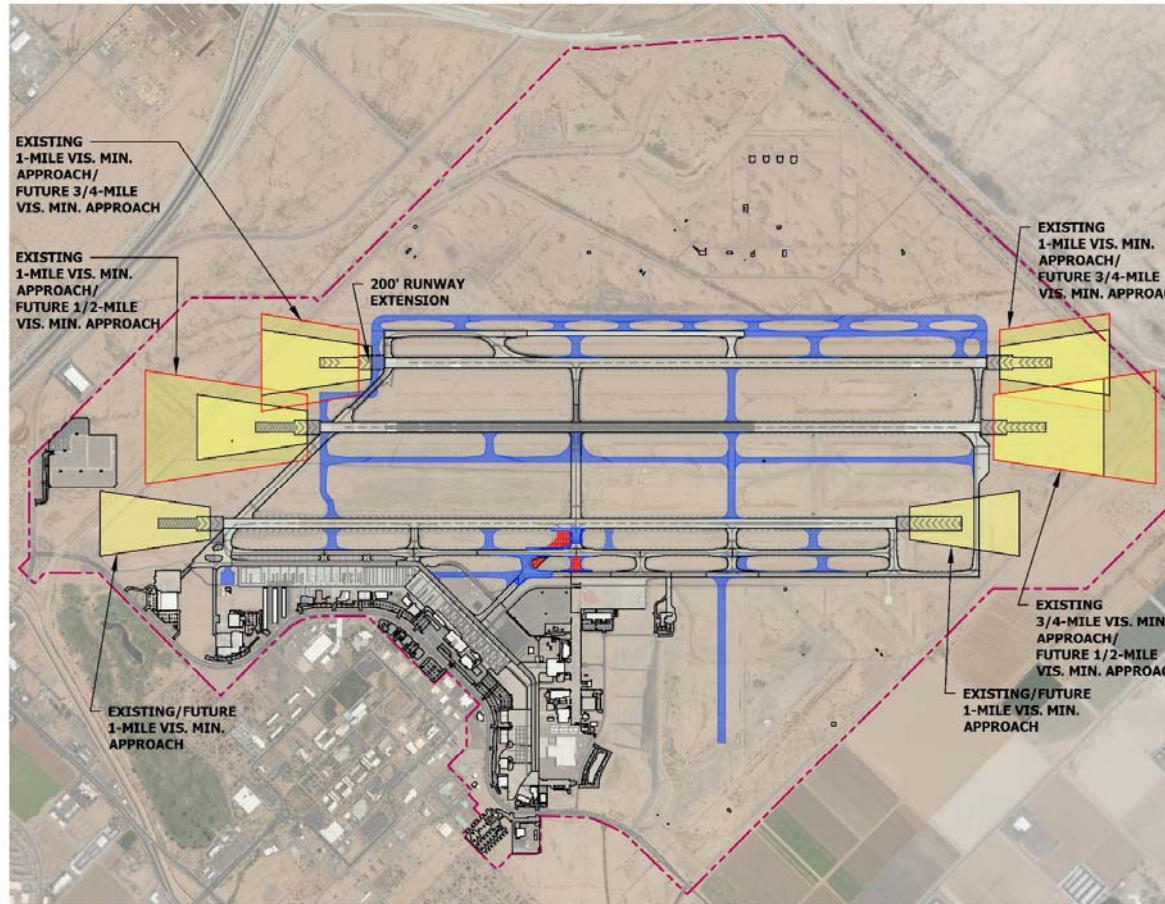
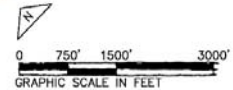


Figure x-x:  
**Airside Development  
Alternative 2  
Protect for Ultimate Potential  
Airside Configuration**

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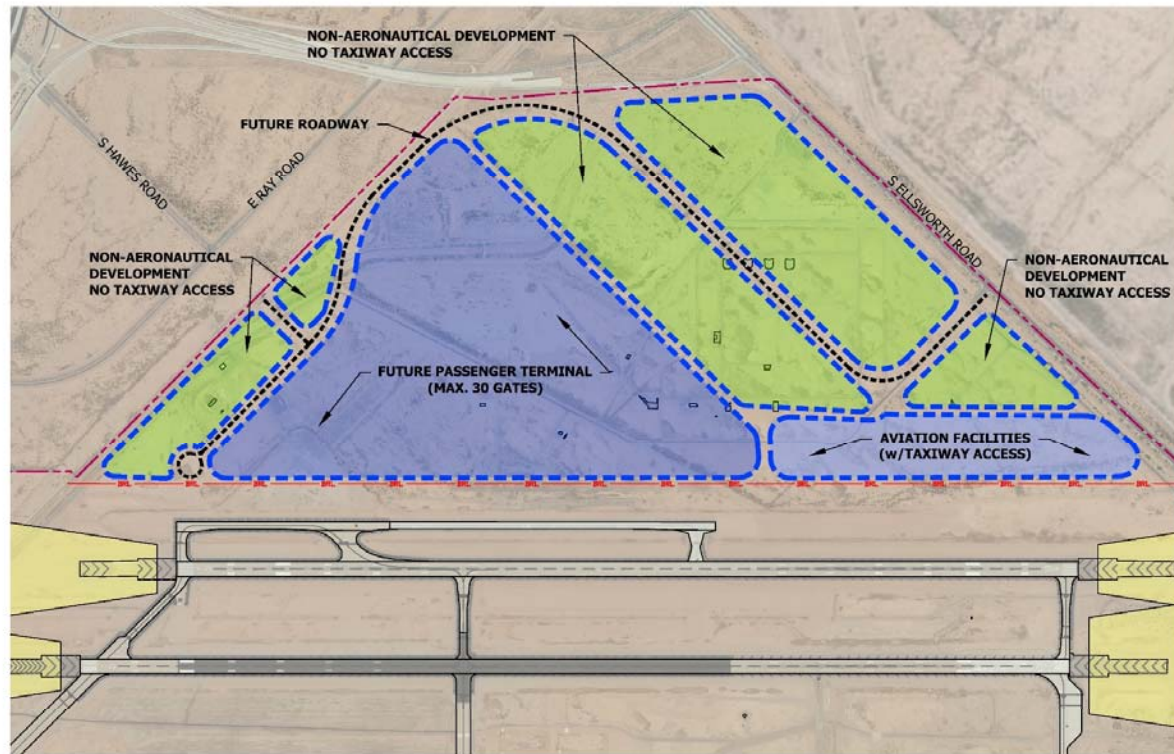


- Legend**
- Existing Runway Protection Zone
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Figure x-x:  
**Airside Development**  
**Alternative 1**  
**Provision of Potential Demand**  
**Driven Improvements**



Legend  
Existing Runway Protection Zone

0 500' 1000' 2000'  
GRAPHIC SCALE IN FEET

Figure x-x:  
Landside Development  
Eastside

# Next Steps

- ✓ **Advisory Committee Meetings #2 - January 15-16, 2019**
- ✓ **Public Information Meeting #1 - January 16, 2019**
- ✓ **Alternatives Evaluation and Development Plan Identification (Working Paper Three)**
- ✓ **Next Committee/Public Meetings April/May 2019**



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Mead&Hunt