

Killeen - Fort Hood Regional Airport

Killeen-Fort Hood

Collaboration and Input

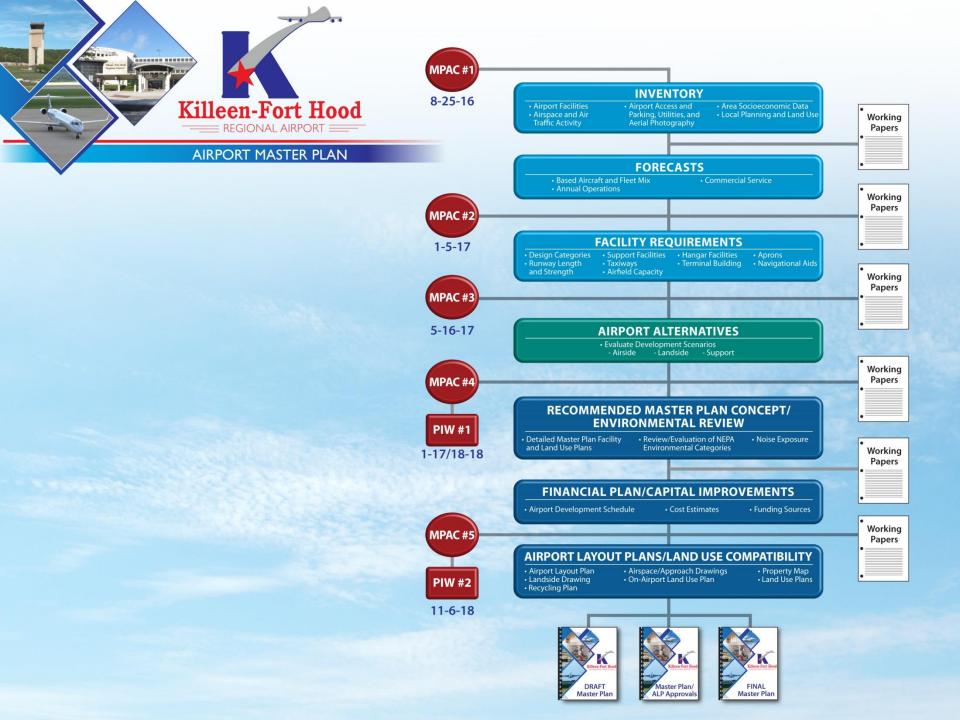
Public Involvement

- Executive Committee
- Advisory Committee
- Public Meetings
- City Council Briefings

Public Meetings January 16 – 18

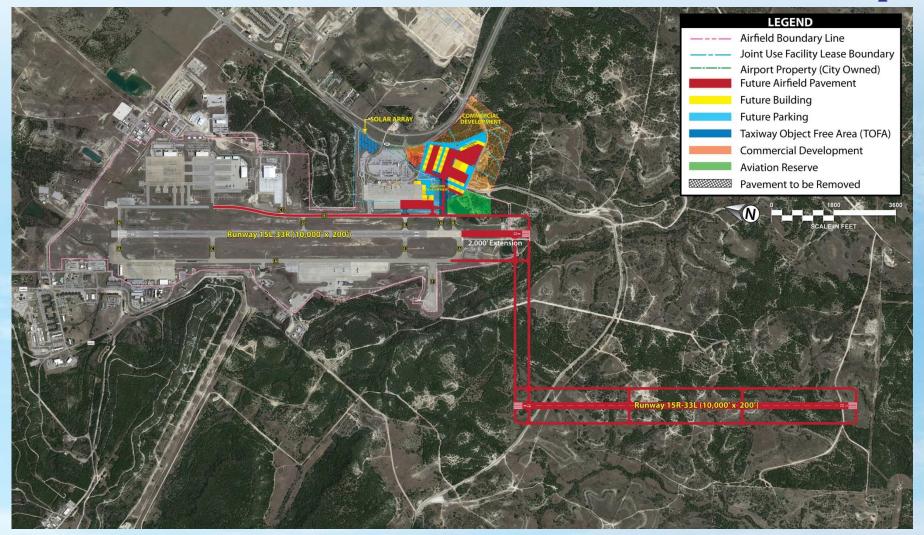
November 7-8

- Displayed Exhibits
- Q&A
- Recorded Verbal Comments
- Comment Cards and Website response page



Killeen-Fort Hood

Master Plan Concept



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Recommended Terminal Concept – Level 1





This Document was produced by or under the direct supervision of Ross Payton TX# 17308

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LEVEL 01 - RECOMMENDED TERMINAL CONCEPT 1" = 40'-0"

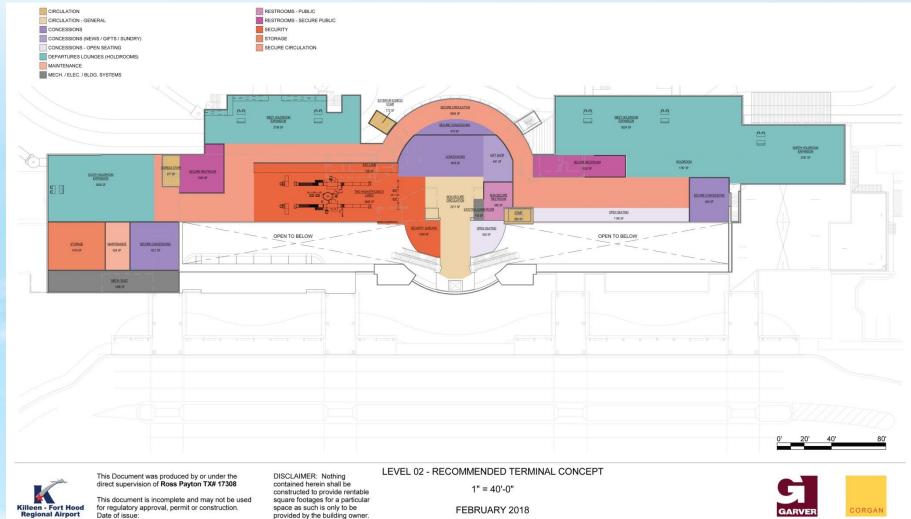


FEBRUARY 2018

Killeen-Fort Hood

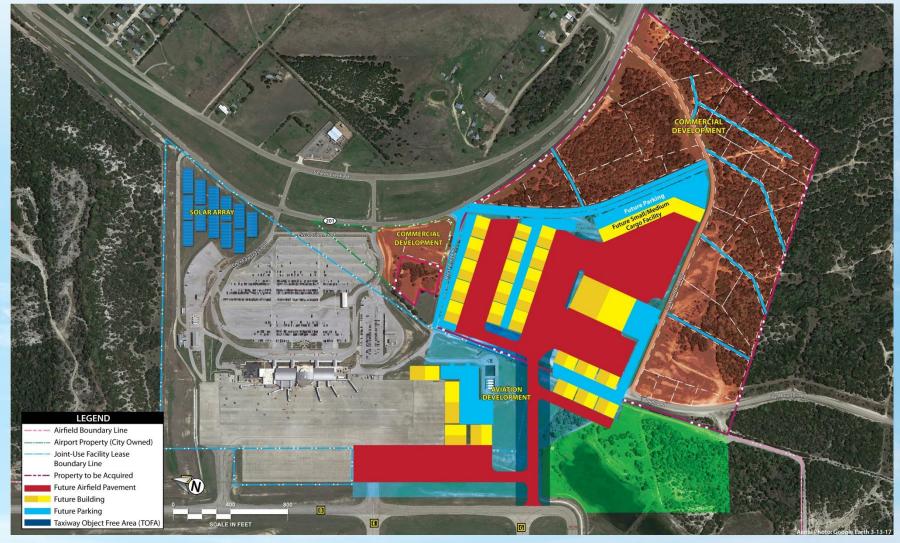
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Recommended Terminal Concept – Level 2





Aviation Development Area



Killeen-Fort Hood REGIONAL AIRPORT

Short Term Projects

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	SHORT TERM CAPITAL PROJECTS	
	Capital Projects 2018	
	1 Corporate Hangar/Terminal Development	
	2 Terminal Building Boarding Bridges, Phase 3	
	3 Car Wash Facility Improvements	
	Subtotal 2018 Capital Projects	
	Capital Projects 2019	
	4 Rental Car Covered Parking Project	
	5 Rehabilitate Runway (Maintenance)	
	6 BMU1 Baggage System Replacement	
	Subtotal 2019 Capital Projects	
	Capital Projects 2020	
	7 Rehabilitate Taxiway (Maintenance)	
Runway 151-833R (10,000 % 2007) 5.11,12	8 Terminal PA System Upgrade	
	2,000'Extension 9 Property Acquisition	
	Subtotal 2020 Capital Projects	
	Capital Projects 2021	
	10 Apron Rehabilitation	
	11 Rehabilitate Runway (Maintenance)	
	12 Runway Lighting and Airport Signage Upgrade	
	Subtotal 2021 Capital Projects	
	Capital Projects 2022	
	13 Taxiway B and Associated Taxiways Rehabilitation, Addition of	of
	Paved Shoulders, Electrical Vault Improvements	
	14 Rehabilitate Taxiway (Maintenance)	
	Subtotal 2021 Capital Projects	-
	SUBTOTAL SHORT TERM CAPITAL PROJECTS	A. 1971a
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	Runway 15R-33L (10,000' x 200')	
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(7,13)	White - Priv	ivate
BOALE IN FEET		yon
	Aerial - Google Earth 2/8/15	/-//

LEGEND

COSTS \$3,750,000

\$5,496,985 \$750,000 \$9,996,985 \$1,800,000 \$50,000 \$2,000,000 \$3,850,000 \$50,000 \$500,000 \$2,000,000 \$2,550,000 \$500,000 \$50,000 \$1,800,000

\$2,350,000

\$7,405,000

\$50,000 \$7,455,000 \$7,455,000

	Airfield Boundary Line
	Airport Property (City Owned)
	Joint-Use Facility Lease Boundary Line
	Property to be Acquired
-	Short Term Projects
White -	Private Development or Beyond Planning Period

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Capital Improvement Program – Short Term

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SHOP	RT TERM CAPITAL PROJECTS	COSTS						
Capital Projects 2018 \$3,750,000 1 Corporate Hangar/Terminal Development \$3,750,000								
1	1 Corporate Hangar/Terminal Development							
2	2 Terminal Building Boarding Bridges, Phase 3							
3	\$750,000							
Subto	\$ <i>9,996,9</i> 85							
Capit	al Projects 2019							
4	Rental Car Covered Parking Project	\$1,800,000						
5	Rehabilitate Runway (Maintenance)	\$50,000						
6	BMU1 Baggage System Replacement	\$2,000,000						
Subto	otal 2019 Capital Projects	\$3,850,000						
Capit	al Projects 2020							
7	Rehabilitate Taxiway (Maintenance)	\$50,000						
8	Terminal PA System Upgrade	\$500,000						
9	Property Acquisition	\$2,000,000						
Subto	otal 2020 Capital Projects	\$2,550,000						
Capit	al Projects 2021							
10	Apron Rehabilitation	\$500,000						
11	Rehabilitate Runway (Maintenance)	\$50,000						
12	Runway Lighting and Airport Signage Upgrade	\$1,800,000						
Subto	otal 2021 Capital Projects	\$2,350,000						
Capit	al Projects 2022							
13	Taxiway B and Associated Taxiways Rehabilitation, Addition of							
	Paved Shoulders, Electrical Vault Improvements	\$7,405,000						
14	Rehabilitate Taxiway (Maintenance)	\$50,000						
	otal 2021 Capital Projects	\$7,455,000						
SUBT	OTAL SHORT TERM CAPITAL PROJECTS	\$26,201,985						

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Mid Term Projects



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Capital Improvement Program – Mid Term

MID	TERM PROJECTS (2023-2027)	COSTS
1	Airline Ramp Expansion and Relocation of Taxiway E East of Taxiway Bravo to Prevent Direct Ramp to Runway Access	\$3,450,000
2	Relocation of Taxiway E East of Taxiway Bravo to Prevent Direct Ramp to Runway Access.	\$2,000,000
3	Rental Car Parking Area Expansion and Fuel Relocation	\$3,000,000
4	South Ramp Development	\$4,400,000
5	Corporate Aviation Hangar/Terminal	\$3,000,000
7	Airline Ramp Expansion - Phase 2	\$2,750,000
8	Taxiway G Extension East	\$5,500,000
9	Runway 15-33 Rehabilitation	\$9,000,000
10	MRO/FBO/SASO/GA Hangar Apron - Phase 1	\$8,800,000
11	MRO/FBO/SASO/GA Phase 2 - Parking and Access	\$3,300,000
12	Level 02 - Modify the South SSCP Lane to a High-Efficiency Lane	\$1,432,816
13	Level 01 - Bag Claim Area Expansion/Inbound Baggage/General	
	Circulation/ new Loading Dock, Staging Room/Non-secure Public Area Restrooms/Building Systems Expansion	\$6,657,805
14	Level 02 - South Holdroom Expansion, Storage, Maintenance, Secure	
	Concessions, Mech/Elec on the Second Level	\$8,052,429
15	Rehabilitate Runway/Taxiway (Maintenance)	\$250,000
TOT	AL MID TERM CAPITAL PROJECTS	\$61,593,050

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Long Term Projects

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\$2,189,264

\$1,267,112

\$13,549,404 \$3,300,000 \$3,300,000 \$6,600,000

\$29,900,000 \$11,500,000

\$287,500,000

LEGEND Airfield Boundary Line Airport Property (City Owned) Joint-Use Facility Lease **Boundary Line** ---- Property to be Acquired To Be Removed Short Term Project Mid Term Project Long Term Project White - Private Development or **Beyond Planning Period**

	LO	NG TERM PROJECTS (2023-2027)	
SOLAR ARRAY	1	Level 01 - Rental Car Counters/BSO Office, Rental Car Counter, Concession, Non-Public Restroom, Curbside Check- in, Armed Forces Lounge, Statue Relocation, Airline Operations, TSA Break Renovation	
	2	Level 01 - Addition of Maintenance, Bag Screen Room/Egress Stairs	
	3	Level 02 - Consolidate security checkpoint to accommodate two high-efficiency lanes, relocate and expand secure restrooms, holdroom expansion to the west and north, new secure concessions with open seatin	g
	4	GA Hangar Spur Taxiway/Apron	
	5	GA Hangar Road and Parking	
Runway 15L-33R (10,000'x 200') = 2000 Extension	6	GA Hangar Apron	
	7	2,000 ft. Extension of Runway 15/33 to the South. Includes parallel taxiways on each side of the runway (75 ft. wide with paved shoulders). Relocation of MALSR system. Reroute of Ivy Mountain Road.	
	8	Taxiway B Widening	
	9	New offset parallel runway (10,000 ft. x 200 ft.) to the west and south of the existing runway. Includes dual parallel taxiways extending between the runways and a single parallel taxiway for the new runway.	5
	SUE	BTOTAL LONG TERM CAPITAL PROJECTS	\$3
COMMERCIAL COM			
		Bunway 158-331 (10,000'x 200')	
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Capital Improvement Program – Long Term

LO	NG TERM PROJECTS (2023-2027)	COSTS
1	Level 01 - Rental Car Counters/BSO Office, Rental Car Counter, Concession, Non-Public Restroom, Curbside Check- in, Armed Forces Lounge, Statue Relocation, Airline Operations, TSA Break Renovation	\$2,189,264
2	Level 01 - Addition of Maintenance, Bag Screen Room/Egress Stairs	\$1,267,112
3	Level 02 - Consolidate security checkpoint to accommodate two high-efficiency lanes, relocate and expand secure restrooms, holdroom expansion to the west and north, new secure concessions with open seating.	\$13,549,404
4	GA Hangar Spur Taxiway/Apron	\$3,300,000
5	GA Hangar Road and Parking	\$3,300,000
6	GA Hangar Apron	\$6,600,000
7	2,000 ft. Extension of Runway 15/33 to the South. Includes parallel taxiways on each side of the runway (75 ft. wide with paved shoulders). Relocation of MALSR system. Reroute of Ivy Mountain Road.	\$29,900,000
8	Taxiway B Widening	\$11,500,000
9	New offset parallel runway (10,000 ft. x 200 ft.) to the west and south of the existing runway. Includes dual parallel taxiways extending between the runways and a single parallel taxiway for the new runway.	\$287,500,000
SUB	TOTAL LONG TERM CAPITAL PROJECTS	\$359,105,780

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Total Project Cost

TOTAL SHORT TERM CAPITAL PROJECTS

3 33-5

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TOTAL MID TERM CAPITAL PROJECTS

TOTAL LONG TERM CAPITAL PROJECTS

\$26,201,985

\$61,593,050

\$359,105,780

TOTAL PROJECT COSTS

\$446,900,815

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Financial Feasibility Analysis

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Objective:

AIRPORT MASTER PLAN

The Financial Feasibility Analysis evaluated Killeen Fort Hood Regional Airport's (GRK) capability to fund the Master Plan Capital Improvement Program (CIP) and finance operations during the twenty year planning period for the following three development phases:

- Short-Term (2018 to 2022)
- Intermediate-Term (2023 to 2027)

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• Long-Term (2028 to 2037)

Overall Approach:

AIRPORT MASTER PLAN

Killeen-Fort Hood

- Review key Airport documents and interview Airport management
- Review the aviation traffic forecast developed in the Master Plan
- Review preliminary cost estimates and development schedule for the CIP
- Determine the sources and timing of capital funds available
- Analyze historical operating revenues and expenses and develop projection assumptions
- Prepare detailed financial projection for the twenty year planning period
- Complete results of the evaluation in a Financial Plan Summary

Funding Sources:

• AIP Entitlement Funds - based on passenger enplanements

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- AIP Discretionary Funds based on priority and importance to the national air transportation system. Includes Military Airport Program (MAP) funding and Supplemental Discretionary funding.
- **Passenger Facility Charges** up to \$4.50 per eligible enplaned passenger for specific eligible and justified projects
- Rental Car Customer Facility Charges currently \$2.00 per day charged on rental car contracts for rental car facilities
- City Contributions funding from the City's general fund budget or through temporary short-term loans from other City enterprise funds
- Department of Defense funding for specific capital projects undertaken by the DOD
- Other Unidentified Funding non-traditional funding sources not yet identified
- Cash Reserves/Net Operating Funds funds generated from excess operating revenues over expenses.



Sources and Uses of Capital Funding:

	Short Term Phase I	Mid Term Phase II	Long Term Phase III		Tatala
Sources of Capital Funding	(2018-2022)	(2023-2027)	(2028-2037)	•	Totals
AIP Entitlement Grants	\$ 13,453,671	\$ 8,653,612	\$ 18,562,813	\$	40,670,096
AIP Discretionary Grants	3,429,916	2,050,000	0		5,479,916
AIP Military Airport Program Grants	3,375,000	0	0		3,375,000
Passenger Facility Charges	2,143,774	4,200,656	7,312,018		13,656,449
Rental Car Customer Facility Charges	2,604,000	3,635,492	331,146		6,570,638
City Capital Contribution	232,180	0	0		232,180
Department of Defense Funding	1,966,909	10,906,477	480,095,979		492,969,364
Other Unidentified Funding	0	45,141,156	36,877,757		82,018,913
Cash Reserves/Net Ops Cash Flow	375,000	0	0		375,000
Total Sources of Capital Funding	\$ 27,580,450	\$ 74,587,393	\$ 543,179,713	\$	645,347,556
Uses of Capital Funding					
Runway/Taxiway Improvements	\$ 10,501,301	\$ 20,245,207	\$ 497,490,761	\$	528,237,269
Terminal Apron Improvements	546,364	7,513,351	0		8,059,714
Terminal Building	8,056,985	19,562,644	25,722,768		53,342,397
General Aviation Facility Improvements	3,750,000	23,630,699	19,966,184		47,346,884
Land Acquisition	2,121,800	0	0		2,121,800
Other Improvements	2,604,000	3,635,492	0		6,239,492
Total Uses of Capital Funding	\$ 27,580,450	\$ 74,587,393	\$ 543,179,713	\$	645,347,556

Note: Addition errors are due to rounding of calculated amounts.

Source: Leibowitz & Horton AMC analysis

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Summary Application of Funding by Source to Master Plan Projects:

		AIP				City		Unidentified	Cash Reserves/	Total Cost/
Summary of Projects	Entitlement	Discretionary	MAP	PFCs	CFCs	Contribution	DOD	Funding	Net Revenues	Funding
Runway/Taxiway Improvements	\$ 15,523,308	\$3,429,916	\$-	\$ 2,579,020	\$-	\$ 20,000	\$492,969,364	\$13,715,661	\$-	\$528,237,269
Terminal Apron Improvements	3,958,411	2,050,000	-	2,051,303	-	-	-	-	-	8,059,714
Terminal Building	19,278,756	-	-	9,026,126	331,146	-	-	24,706,369	-	53,342,397
Terminal Roadway and Parking Improvements	-	-	-	-	-	-	-	-	-	-
General Aviation Facility	-	-	3,375,000	-	-	-	-	43,596,884	375,000	47,346,884
Land Acquisition	1,909,620	-	-	-	-	212,180	-	-	-	2,121,800
Perimeter Road	-	-	-	-	-	-	-	-	-	-
Support Facility	-	-	-	-	-	-	-	-	-	-
Other Improvements	-	-	-	-	6,239,492	-	-	-	-	6,239,492
Totals	\$ 40,670,096	\$5,479,916	\$3,375,000	\$13,656,449	\$6,570,638	\$ 232,180	\$492,969,364	\$82,018,913	\$ 375,000	\$645,347,556

Note: Addition errors are due to rounding of calculated amounts.

Source: Leibowitz & Horton AMC analysis

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Summary of Operating and Capital Cash Flows:

Operating/Capital Cash Flow		Term -2022	Mid Term 2023-2027	Long Term 2028-2037
Passenger Enplanements Annual Growth Rate	٤	363,953 2.21%	943,269 1.56%	2,141,381 1.72%
Operating Cash Flow Revenues:				
Airline Revenues Non-Airline Revenues Contributions from Aviation Fund Balance City Subsidy Required to Fund Operating Deficit	11,2	161,507 217,818 374,303 -	\$ 2,457,497 13,712,064 - -	\$ 6,332,094 35,777,611 - -
Total Revenues	\$ 13,7 ``	753,629	\$ 16,169,561	\$ 42,109,705
Operations & Maintenance Expenses	(13,6	693,447)	(15,918,844)	(39,847,898)
Total Net Operating Cash Flow Available For Capital Expenditures	\$	60,182	\$ 250,717	\$ 2,261,807
Capital Cash Flow Beginning Cash Balance Other Capital Funding Sources:	\$ 27,5	- 520,268	\$ - 74,436,938	\$ 100,262 542,788,530
Total Funds Available for Capital Expenditures Capital Improvement Program Expenditures	. ,	580,450 580,450	\$ 74,687,655 74,587,393	\$ 545,150,599 543,179,713
Ending Cash Balance	\$	-	\$ 100,262	\$ 1,970,886

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Summary of Findings:

- Implementation of projects in the CIP are projected to be financially reasonable subject to partial funding supported by the Aviation Fund Balance
- Implementation of projects that require AIP discretionary, Department of Defense funding or Other Unidentified funding are subject to the availability of those funds from the FAA, the DOD or an identified funding source
- The Financial Implementation Plan relies on achievement of the aviation activity and passenger enplanement forecast



Next Steps

- Public Review of Implementation Plan
- Collect Comments

- Final Draft/Executive Summary
- Airport Layout Plan Set
- FAA Approval





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Questions?