



Fayetteville Regional Airport
Airport Master Plan Update

Project Presentation to City Council

May 7, 2018



TALBERT & BRIGHT

FAYETTEVILLE REGIONAL AIRPORT MASTER PLAN

- An Airport Master Plan is a 20-year Development Plan
- FAA Requires an Approved Master Plan and Airport Layout Plan
- Last Master Plan Completed in 2005
- Introduction & Study Process
 - Inventory
 - Aviation Demand Forecasts
 - Facility Requirements
 - Alternatives
 - Financial/Implementation Plan
 - Airport Layout Plan



AIRPORT INVENTORY

- Airport Location, Demographics
- Airport Role and Classification
- Airport Service Area and Access
- Airport Zoning
- Historical Activity
- Airport Project History
- Airside Facilities
- Runways
- Taxiways
- Aprons
- Pavement Condition
- Navigational Aids
- Weather Reporting
- Lighting
- Airspace
- Instrumentation/Approaches
- FAR Part 77 Imaginary Surfaces
- Airport Buildings and Infrastructure
- Airport Tenants
- Aircraft Parking and Storage
- Aircraft Rescue and Fire Fighting
- Fuel Storage Facilities
- Airport Maintenance Facilities
- Perimeter Fencing
- Automobile Parking
- Utilities
- Stormwater Management
- Airport Financial Data



AVIATION FORECAST SUMMARY (FAA APPROVED)

Year	Air Carrier/ Taxi Operations	GA Operations	Military Operations	Total Operations (Preferred)	Total FAA TAF Ops Forecast	Based Aircraft
2016*	10,222	17,391	7,231	34,844	-	66
2021	14,386	17,952	5,775	38,113	33,434	68
2026	15,250	18,744	5,775	39,769	34,160	71
2036	17,134	20,592	5,775	43,501	36,241	78



CRITICAL AIRCRAFT

	RUNWAY 10/28	RUNWAY 4/22	
	EXISTING & PROPOSED	EXISTING	PROPOSED
	CESSNA CITATION II	MCDONNELL DOUGLAS MD-88	AIRBUS A-321
Reference Code (ARC)	B-II	D-III	C-III
Runway Critical Aircraft	10/28	4/22	4/22
Propulsion	Jet	Jet	Jet
Wingspan	52'	107.9'	117.5'
Length	47'	147.8'	146'
Height	15'	30.5'	38.6'
Maximum Takeoff Weight (MTOW)	15,100 lbs.	160,000 lbs.	196,200 lbs.
Seating Capacity	7	149	192
Range	2,104 nm	2,500 nm	3,700 nm



FACILITY REQUIREMENTS & ALTERNATIVES

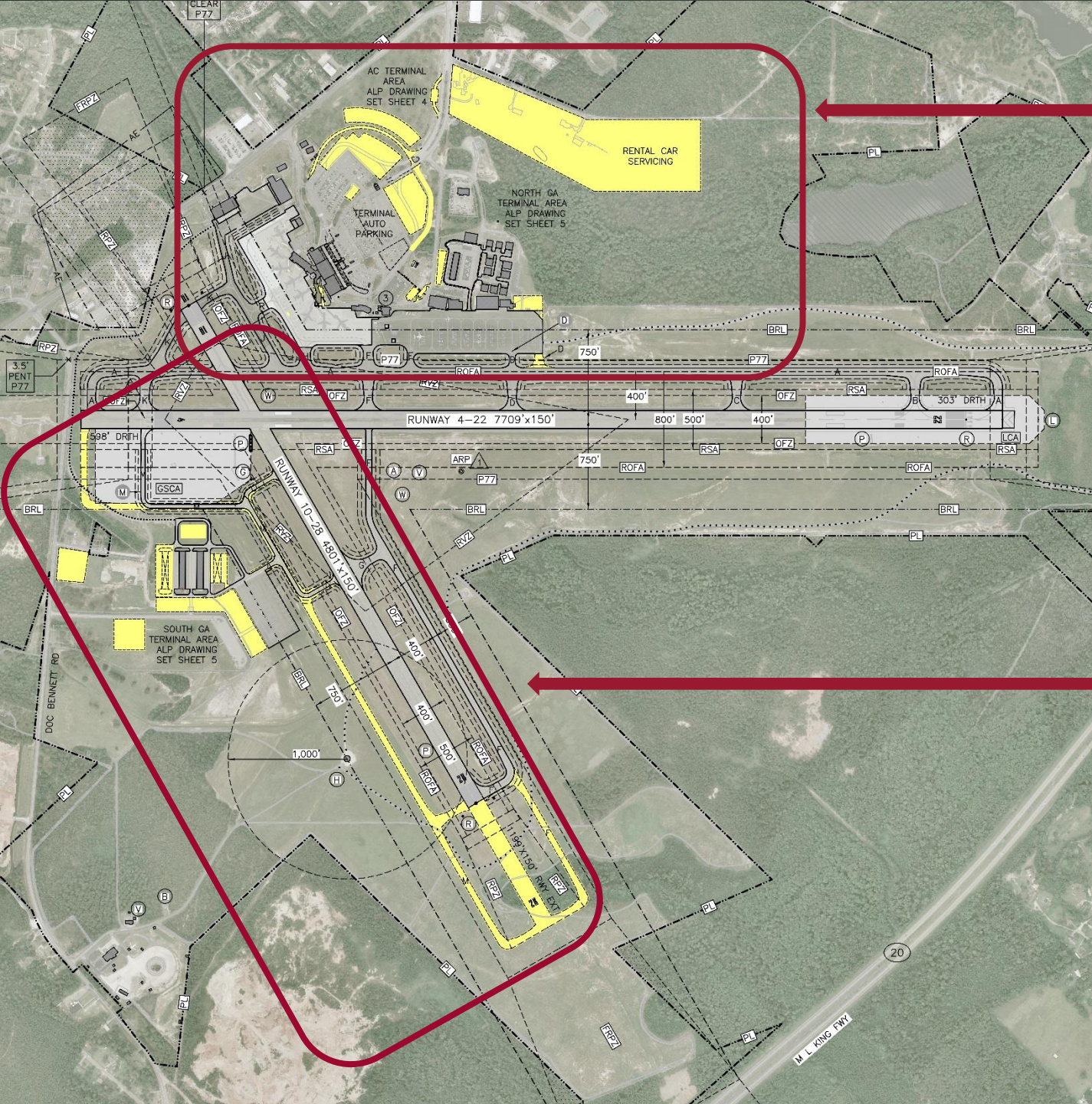
Purpose of the Facility Requirements are to:

- Determine Capacity;
- Determine Airport needs to accommodate aviation forecasts
- Identify existing non-conforming conditions

Analyzed:

- Runways
- Taxiways
- Aprons
- Geometry
- Aircraft Storage
- Support Facilities (Fueling Facilities/Auto Parking/Airport Maintenance/Rental Car Servicing)





NEW RENTAL CAR
SERVICING FACILITY

EXPANDED TERMINAL
AUTO PARKING

EXPANDED NORTH GA
AUTO PARKING

NEW CONCOURSE A

CONVENTIONAL/
CORPORATE HANGAR
DEVELOPMENT

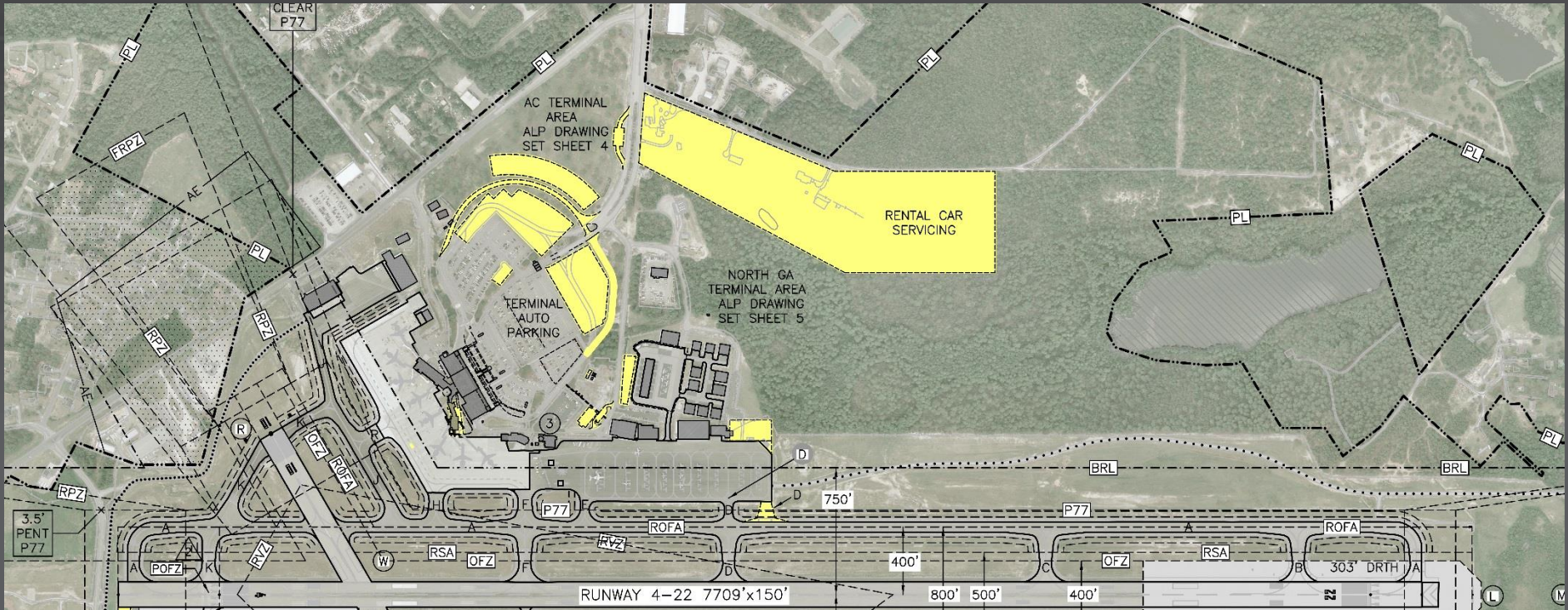
EXTENDED RUNWAY 10-
28 AND FULL PARALLEL
TAXIWAY (BEYOND
PLANNING PERIOD)

AIRPORT MAINTENANCE
BUILDING

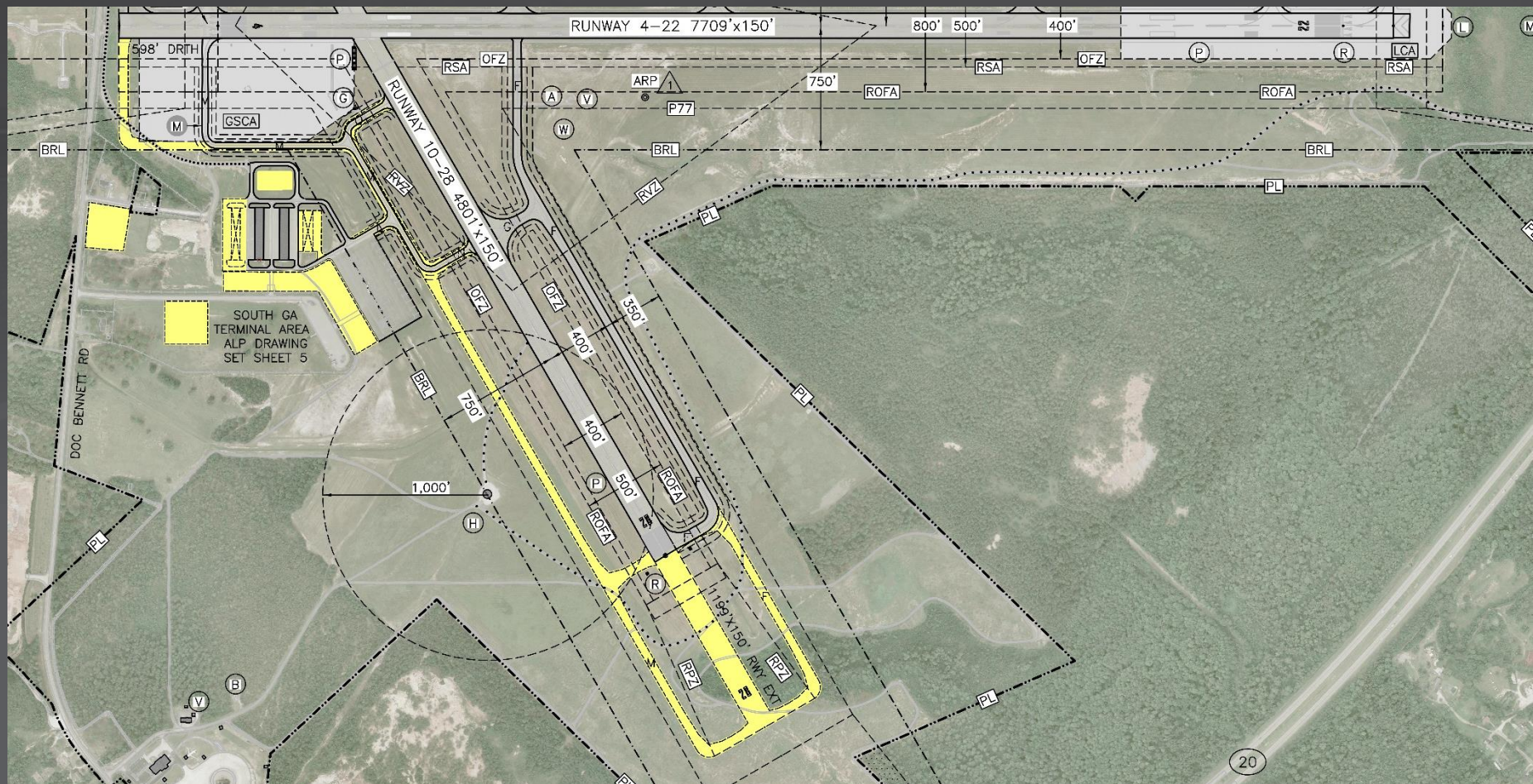
T-HANGAR
DEVELOPMENT

CONVENTIONAL/
CORPORATE HANGAR
DEVELOPMENT

NORTH AREA DEVELOPMENT



SOUTH AREA DEVELOPMENT



NEXT STEPS

- Receive Comments from Airport/Public/City Council
- Finalize Cost Opinions
- Complete Financial Analysis (Funding Strategy)
- Complete Airport Layout Drawings and Report
- Submit ALP to NCDOA and FAA



**ERIC
STUMPH, PE**
Talbert & Bright, Inc.
Tel. 910.763.5350
estumph@tbiilm.com

**NICK
STEFANIAK**
Talbert & Bright, Inc.
Tel. 910.763.5350
nstefaniak@tbiilm.com



CONTACT INFORMATION

TALBERT & BRIGHT