NCDOT Aviation-N.C. Airports Quarterly Community Meeting

Nick Short, P.E., Interim Director, NCDOT Aviation

Rachel S. Bingham, P.E., Deputy Director of Airport Development

Dr. Daniel J. Findley, P.E., Associate Director, Institute for Transportation Research & Education
January 28, 2025

Connecting people, products and places safely and efficiently with customer focus, accountability
and environmental sensitivity to enhance the economy and vitality of North Carolina

TOPICS FOR TODAY

- Airport Projects 2024 Year in Review
- Staffing Updates
- Program Updates
- Guidance
- New Resources
- Training
- Staying Connected
- Q&A

Airport Projects 2024 Year-in-Review

DIVISION OF AVIATION
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 North Carolina
Public Airport Projects

Davidson County Airport

- Airfield Pavement Rehabilitation
- $14.7 million
- Completed September 2024

Davidson County Airport

- Wildlife Perimeter Fence
- $1.2 million
- Completed September 2023

Davidson County Airport

- Stormwater Drainage Rehabilitation
- $1.8 million
- Completed January 2025

Davidson County Airport

- Hangar Site Preparation
- $2.7 million
- Estimated completion May 2025

Fayetteville Regional Airport

- Terminal Reconstruction
- $3.4 million
- Completed November 2024

Davidson County Airport

- Construction of Corporate Hangars
- $8 million
- Completed December 2025

Mid-Carolina Regional Airport

- Hangar Expansion Project
- $18 million
- Estimated completion October 2025

Mount Olive Municipal Airport

- Parallel Taxiway Construction
- $5.7 million
- Completed January 2025

FILL

CUT

Piedmont Triad International Airport

- Clearing and grubbing 32 acres and moving of approximately 300,000 cubic yards of embankment.
- $12.3 million
- Estimated completion February 2025

Piedmont Triad International Airport

- Construction of New Taxiway
- $24.4 million
- Estimated completion February 2025

Piedmont Triad International Airport

- Full Reconstruction of Taxiway D
- $15.8 million
- Estimated completion June 2025

Rutherford County Airport

- Lighting and Sign Rehabilitation
- $1.1 million
- Completed January 2024

Smith Reynolds Airport

- Taxiway Rehabilitation
- $8.3 million
- Completed August 2024

Raleigh-Durham International Airport

- Reconstruction of North Cargo Apron
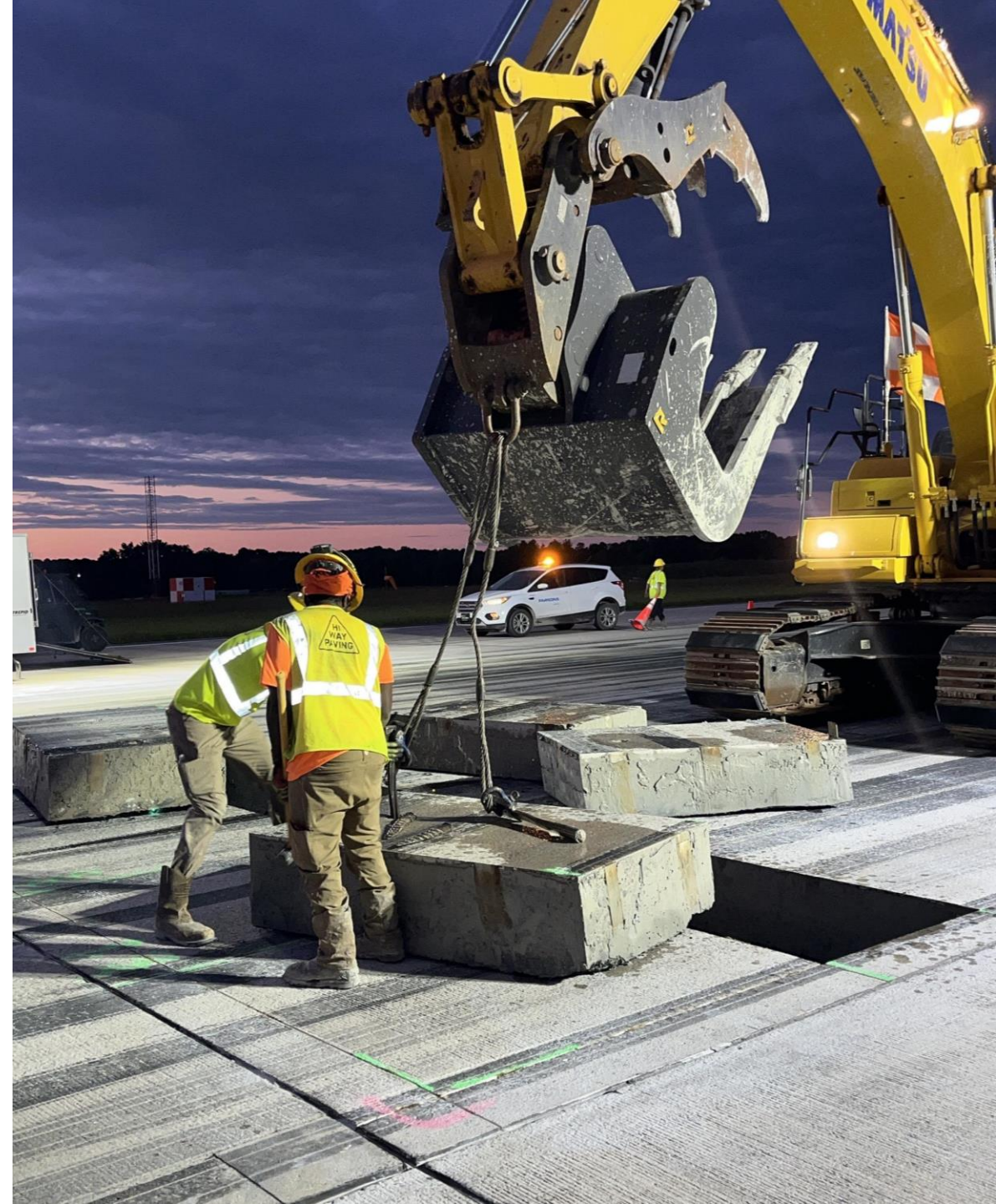- $37 million
- Completed November 2024

Raleigh-Durham International Airport

- Runway 5L-23R Replacement
- $1 billion
- Estimated Completion June 2029

Raleigh-Durham International Airport Runway

- Runway 5L-23R Preservation
- $8 million
- Completed November 2024

Raleigh-Durham International Airport

- The Terminal 2 Concessions Program Phase 1
- $9.5 million
- Completed July 2024

Kinston Regional Jetport at North Carolina Global TransPark

- Fleet Readiness Center East C130 MRO Complex
- $350 million
- Estimated completion September 2026

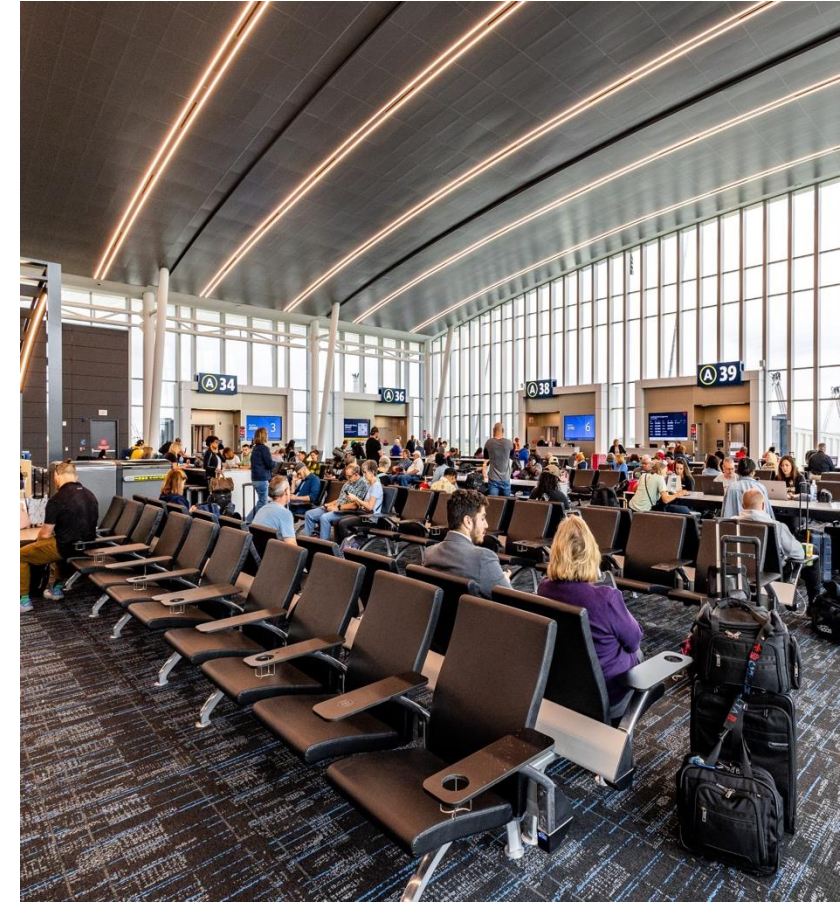# Kinston Regional Jetport at North Carolina Global TransPark

- Fuel Farm
- $12 million
- Estimated completion March 2025

Charlotte Douglas International Airport

- Concourse A Phase Renovation
- $ 241 million
- Completed December 2024

Wayne Executive Jetport

- Fill and Seal Project
- $277,000
- Completed August 2024

Before

Wayne Executive Jetport

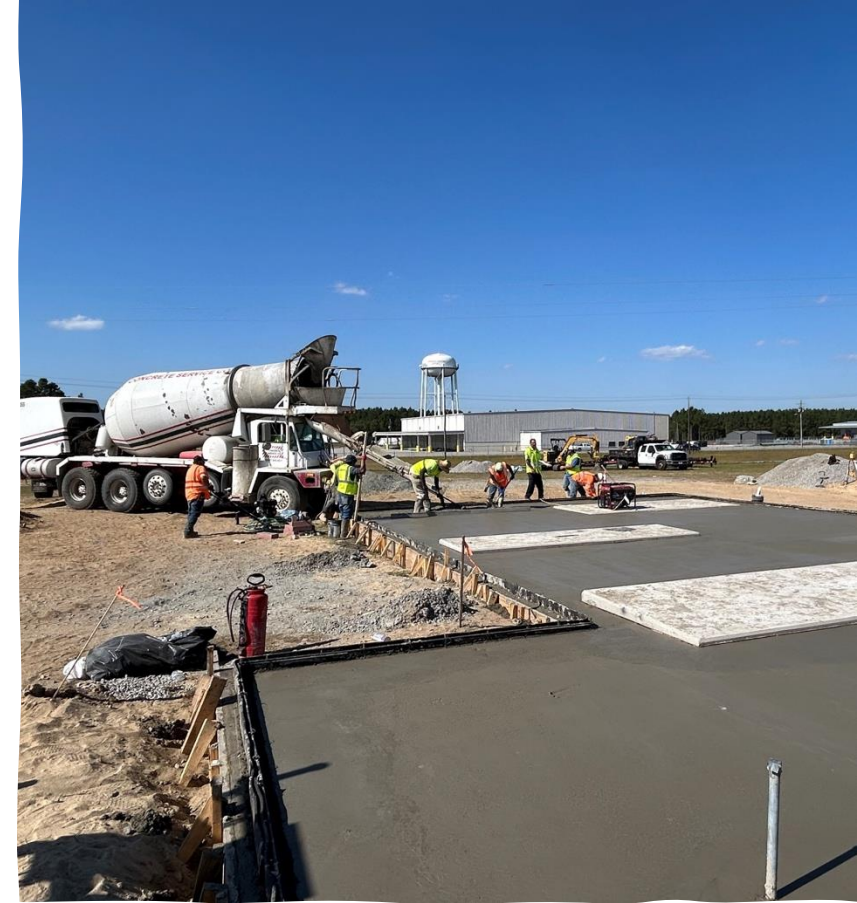- Modern Improvement — Compass Rose
- $1,500
- Completed September

Wayne Executive Jetport

- Perimeter Fence
- $3.3 million
- Estimated Completion June 2025

Wayne Executive Jetport

- Storm Water Improvements and Corporate Access Road
- $1.2 million
- Estimated completion April 2025

Laurinburg-Maxton Airport

- Replacement of existing underground fuel farm
- $1.3 million
- Completed December 2024

Charlotte-Monroe Executive Airport

- Tree Obstruction Removal and Fencing
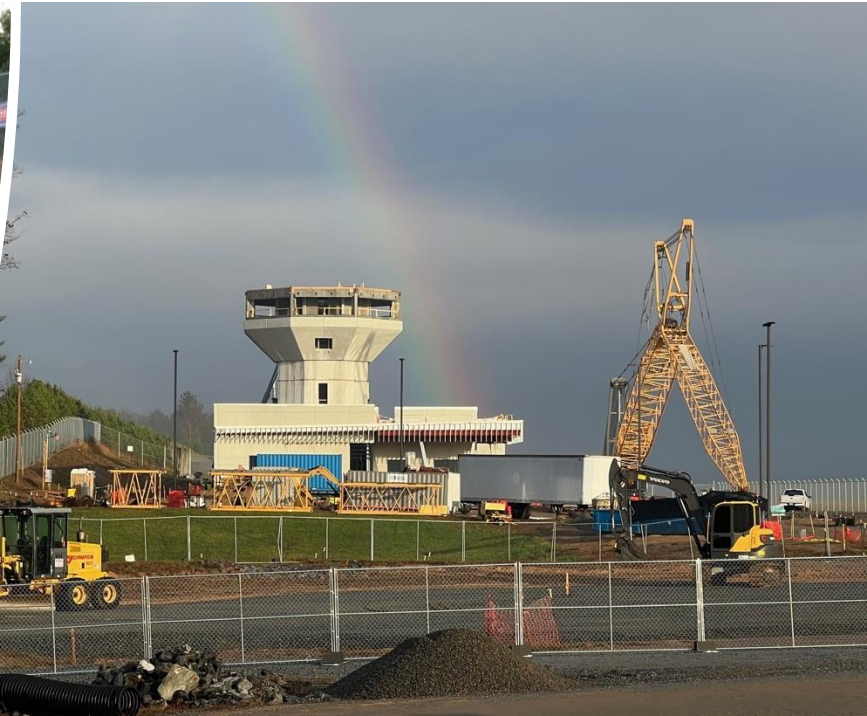- $1.1 million
- Completed December 2024

Asheville Regional Airport

- Terminal Modernization & Expansion Project
- $350 million
- Estimated completion December 2027

Asheville Regional Airport

- Air Traffic Control Tower Project
- Being moved to the far side of the runway to allow for the terminal to be rebuilt.
- $55 million
- Estimated completion May 2025

Asheville Regional Airport

- Main entrance constructed from Terminal Drive into this South parking lot.
- $9 million
- Estimated completion July 2025

Raleigh Executive Jetport

- New Private Corporate Hangar
- Estimated Completion July 2025

Raleigh Executive Jetport

- Bypass-Taxiway Construction Project
- $2.6 million
- Estimated completion Mid 2025

Mount Airy/Surry County Airport

- Apron Rehabilitation
- $3.3 million
- Completed October 2024

Mount Airy/Surry County

- Airport Terminal Site Development
- $800,000
- Estimated completion August 2025 — pending terminal construction

Rockingham County NC Shiloh Airport

- Apron and Hangar Development
- $13.5 million
- Estimated completion summer 2025

Statesville Regional Airport

- Terminal Building
- $13 million
- Estimated completion Fall 2025

Harnett Regional Jetport

- Terminal Building
- Approximately $5.2 million
- Completed June 2024

DIVISION OF AVIATION
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 North Carolina
Public Airport Projects

Staffing Updates

Introducing Nick Short, P.E., PLS

Interim Director, NCDOT Aviation

- More than a decade of experience with NCDOT
  - Led efforts to acquire 1.6 million acres of imagery in response to Hurricane Helene.
  - Spearheaded the integration of crewed aircraft sensors and uncrewed autonomous systems (UAS) for DOT applications
  - Helped develop the Sanford UAS Test Site
- B.S. Civil Engineering, UNC Charlotte
- Third generation aviation professional (father was a pilot, grandfather a naval aviator)

New Staff

Haven Bailey

Contractor/Workforce Programs

- ACE Academy Grant Program
  - N.C. Aviation Art Contest
    - HBCU Aviation Fellows
      - STEM events
- Aviation Intern/TEA programs

Dr. Shannan George

Training and Events Specialist

N.C. State University Institute for Transportation Research and Education

Succeeds Eugene Murray for NC AirTAP Programs

- Airport Leadership and Management Program
  - Airport Board Member Training
    - Safety Workshops

REMINDER
Staffing reorganization under way to manage future of air transportation needs and technology integration

Airport Development
Rachel Bingham, Deputy Director

Airport Project Management	Airport Funding Programming

Programs & Planning
Jason Schronce, Deputy Director

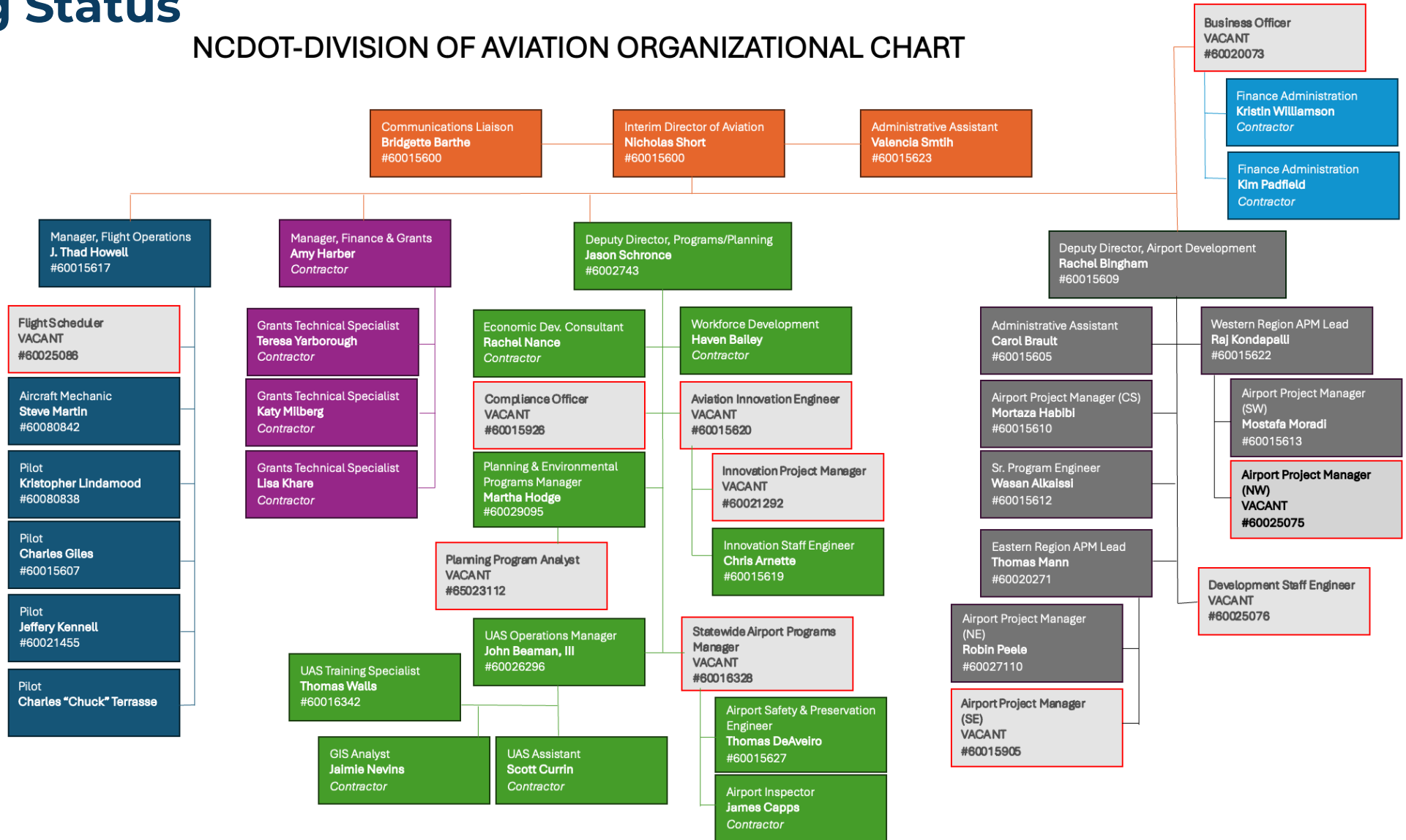| Innovation & Emerging Technologies	Statewide Programs
Environmental & Compliance	Business & Workforce Development

- **Airport Development** manages:
  - Federal and state funds programming
  - Airport project management, oversight and technical assistance

- **Programs & Planning** manages:
  - AAM and new technology integration
  - Expanded roles for Statewide Programs, environmental and compliance to accommodate both airport development and AAM/UAS integration
  - Business and workforce development

Staffing Status

NCDOT-DIVISION OF AVIATION ORGANIZATIONAL CHART

Business Officer
VACANT
#60020073

Finance Administration
Kristin Williamson
Contractor

Finance Administration
Kim Padfield
Contractor

Communications Liaison
Bridgette Barthe
#60015600

Interim Director of Aviation
Nicholas Short
#60015600

Administrative Assistant
Valencia Smtih
#60015623

Manager, Flight Operations
J. Thad Howell
#60015617

Manager, Finance & Grants
Amy Harber
Contractor

Deputy Director, Programs/Planning
Jason Schronce
#6002743

Deputy Director, Airport Development
Rachel Bingham
#60015609

Flight Scheduler
VACANT
#60025086

Aircraft Mechanic
Steve Martin
#60080842

Pilot
Kristopher Lindamood
#60080838

Pilot
Charles Giles
#60015607

Pilot
Jeffery Kennell
#60021455

Pilot
Charles "Chuck" Terrasse

Grants Technical Specialist
Teresa Yarborough
Contractor

Grants Technical Specialist
Katy Milberg
Contractor

Grants Technical Specialist
Lisa Khare
Contractor

Economic Dev. Consultant
Rachel Nance
Contractor

Compliance Officer
VACANT
#60015926

Planning & Environmental
Programs Manager
Martha Hodge
#60029095

Planning Program Analyst
VACANT
#65023112

UAS Operations Manager
John Beaman, III
#60026296

UAS Training Specialist
Thomas Walls
#60016342

GIS Analyst
Jaimie Nevins
Contractor

UAS Assistant
Scott Currin
Contractor

Workforce Development
Haven Bailey
Contractor

Aviation Innovation Engineer
VACANT
#60015620

Innovation Project Manager
VACANT
#60021292

Innovation Staff Engineer
Chris Arnette
#60015619

Statewide Airport Programs
Manager
VACANT
#60016328

Airport Safety & Preservation
Engineer
Thomas DeAveiro
#60015627

Airport Inspector
James Capps
Contractor

Administrative Assistant
Carol Brault
#60015605

Airport Project Manager (CS)
Mortaza Habibi
#60015610

Sr. Program Engineer
Wasan Alkaissi
#60015612

Eastern Region APM Lead
Thomas Mann
#60020271

Airport Project Manager
(NE)
Robin Peele
#60027110

Airport Project Manager
(SE)
VACANT
#60015905

Western Region APM Lead
Raj Kondapalli
#60015622

Airport Project Manager
(SW)
Mostafa Moradi
#60015613

Airport Project Manager
(NW)
VACANT
#60025075

Development Staff Engineer
VACANT
#60025076

Welcome new airport directors!

David J. Harris, Airport Director
Johnston Regional Airport

Gage King, Airport Director
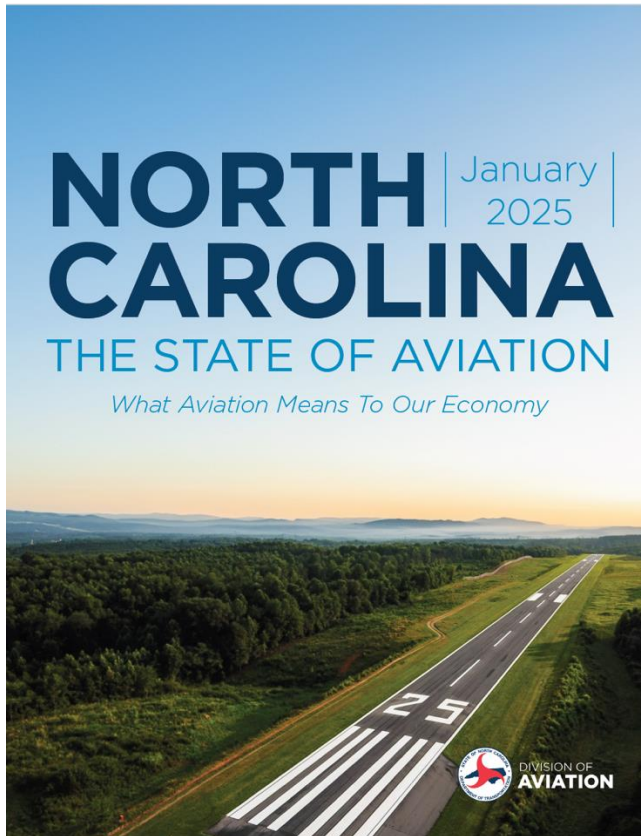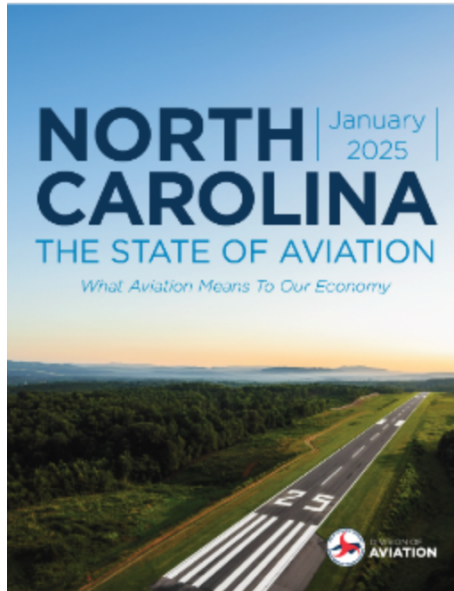Global Transpark/Kinston
Regional Jetport

Program Updates

2025 *North Carolina: The State of Aviation*
Key Findings: $88+ Billion N.C. Airport Economic Impact Annually – 11% of North Carolina's GDP

Capturing Campaign Reach and Impact
Visit the Outreach Campaign Dashboard to enter your outreach results

North Carolina: The State of Aviation 2025
Outreach Campaign Dashboard

SPREAD THE WORD: $88 Billion Annual Airport Impact

Follow the **link below** to track your outreach results:

1. Enter **each presentation** you make on your impacts.
2. Enter **each published story** (newspaper, TV, newsletter, etc.) that publicizes your impacts.

Submit a presentation or published story >

Results to Date

Presentations

2

Stakeholders Reached

5875

Published Stories

18

Quicklinks

Aviation Website with Brochure and Video >

Outreach Toolkit on State Aid Connect site >

Presentations

Organization	Date of Presentation	Est Size of Audience	Group Presented To
Forsyth County	01/12/25	5,800	TV Interview
NCDOT Aviation	01/02/25	75	Airport Pre-Release Briefing on 2025 N.C.-The State of Aviation Report

Published Stories

Organization	Date Story Ran/Aired/Was Distributed	Who Published	URL to the Story Online
Person County NC Government	01/23/25	The Courier-Times	https://www.personcountyl
NCDOT Division of Aviation	01/14/25	WilmingtonBiz	https://www.wilmingtonbiz.

12 airports receive 2025 Aviation Career Education (ACE) Academy grants

- Charlotte-Monroe Executive Airport
- Curtis L. Brown Jr. Field Airport
- Fayetteville Regional Airport
- Henderson-Oxford Airport
- Kinston Regional Jetport
- Laurinburg-Maxton Airport
- Northeastern Regional Airport
- Smith Reynolds Airport
- Statesville Regional Airport
- Triangle North Executive Airport
- Washington-Warren Airport
- Wilmington International Airport

Guidance

FAA Airport Capital Improvement Program (ACIP) Requirement

GA airport plans now due to NCDOT Aviation in mid-August each year

WHY THIS CHANGE

- FAA requires airports to submit a five-year spending plan for federal funds.
  - Project submittals into EBS (formerly Partner Connect) no longer provide the details needed
  - Annual NPE & AIG surveys are not providing enough data due to the ability to defer funds
- Therefore, we need to return to individual submittals.

NEW PROCESS

- GA airports submit plans to NCDOT Aviation by mid-August each year
- NCDOT compiles the 62 GA airport plans and submits to FAA by annual September deadline

FAA Airport Capital Improvement Program (ACIP) Requirement

Wasan Alkaissi will send an email with more information and the reporting form

WHAT THIS MEANS FOR AIRPORTS

- GOOD NEWS: No more NPE & AIG annual surveys!

- Airports must complete FAA Form 5100-100 for each proposed project and upload in EBS

- Project costs should delineate NPE and AIG funds by year. Examples will be provided in the email.

- We anticipate airports can add to the 3-year program submitted in August 2024. The plan includes:
  - Schedule
  - Engineer's estimate
  - Total funding budget

- As always, please work with your regional APM if you have questions.

Airport project updates due in EBS by Feb. 7

▶ *Find details in Wasan Alkaissi email, sent Nov. 8*

- Confirm/update cost estimates, funding year, local interest

- New safety project requests – alert your APM

- NCDOT prioritization schedule:
  - **February-March** – review for completeness, eligibility, priority and prioritize
  - **August** – projects begin being sent to Board of Transportation, based on readiness to expend funds

GA AIRPORTS

Request 4 Years of FAA Airport Infrastructure Grant (AIG) Funding

Federal Fiscal Year (October-September)	Total Announced for N.C. GA Airports	Total Requested by N.C. GA Airports	Date Funds Must Be Requested from NCDOT
FFY 2022	$12.3 M	$3.4 M	April 10, 2025
FFY 2023	$12.7 M	$2.0 M	April 10, 2026
FFY 2024	$12.8 M	$1.1 M	April 10, 2027
FFY 2025	$13.2 M		April 10, 2028
FFY 2026	TBA		April 10, 2029
TOTAL	$51,061,000	$6,450,330	

FEDERAL GRANTS FOR GA AIRPORTS
Deadlines for expiring 2020 and 2021 federal nonprimary entitlement (NPE) and other 2021 federal funds (APP/DISC)

- **Jan. 27: Deadline for new applications to obligate expiring 2020 & 2021 funds**

- Feb. 28: Deadline for relinquishing 2020 & 2021 NPE funds so they can be transferred to another airport

- April 1: Deadline for all changes to 2020 & 2021 funds to be requested for Division approval

- Expiration deadline: June 30, 2025

EXPIRING FEDERAL GRANTS FOR GA AIRPORTS
NPE, COVID relief, APP, DISC, SUPP funds

2020				2021			
Source	Awarded	Unobligated Balance	Unspent Balance	Source	Awarded	Unobligated Balance	Unspent Balance
APP	$5.2M	$9,330	$581,045	APP	$5.4M	$31,232	$161,767
NPE	$11.6M	$185,252	$1.3M	NPE	$8.1M	$2.6M	$7.5M
CARES	$1.9M	$71,656	$259,037	ARPA	$1.5M	$300,656	$859,609
SUPP	$600,000	$134,240	$246,040	DISC.	$4.85M	$0	$0
CARES Match	$66,000	$14,247	$26,670	ARPA Match	$538,000	$0	$0
TOTAL	$19.3M	$414,725	$2.4M	TOTAL	$20.3M	$2.9M	$8.5M

New Resources

RESEARCH NCDOT Supply Chain Study
Competitive advantages and opportunities for targeted business growth

The Economic Contribution of North Carolina's Supply Chain
An Analysis of Sectors and Emerging Industries

AUGUST 2024

NC STATE UNIVERSITY
ITRE
Institute for Transportation Research and Education

Topics

- 14 highest-producing supply chain sectors

- Essential production factors analysis

- Employment hotspots

- Emerging industries/evolving technologies opportunities

- The role of N.C. transportation network on supply chain

NEW SERVICE Obstruction Modeling Tool

Visualization method can support runway extension planning, disaster preparation, public communications
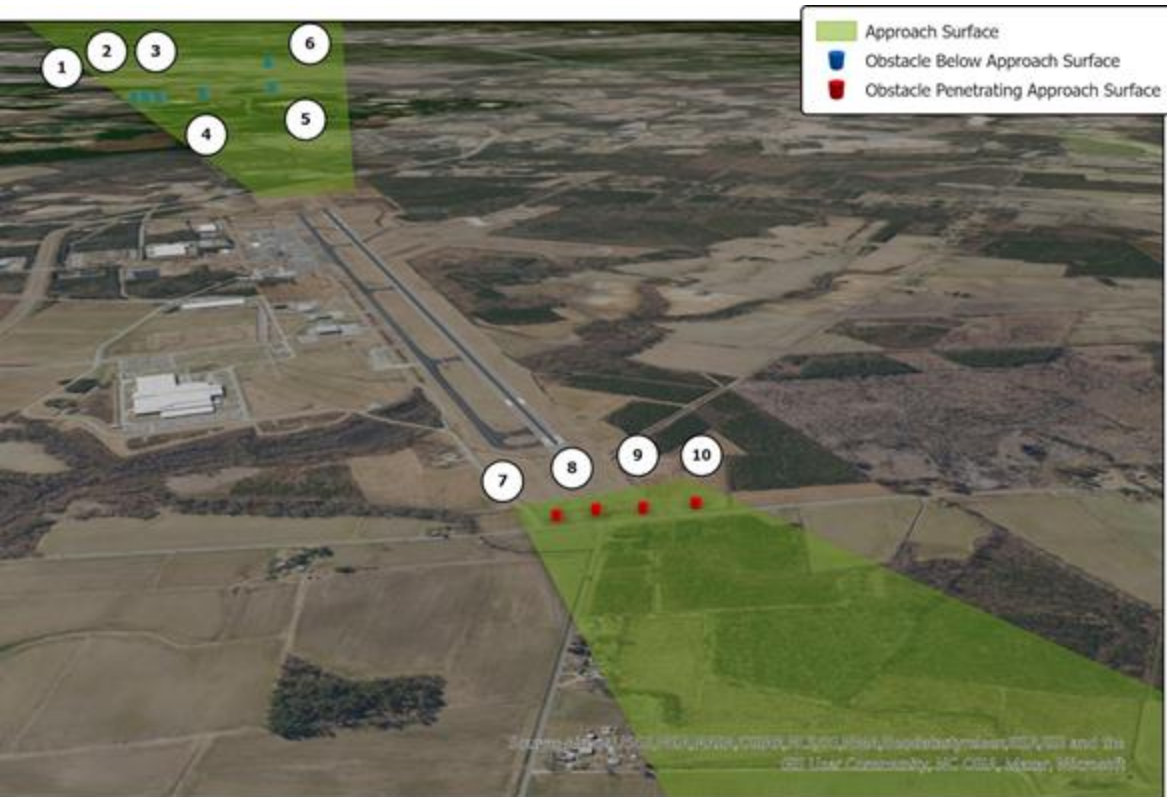
- N.C. State license to ArcGIS Aviation Airports extensions supports analysis and visualization of existing and potential aviation obstructions

- Data for existing obstructions comes from FAA's Digital Obstacle File, which covers the entire country, updated every 56 days

- Data for runways is also sourced from the FAA and used to model three-dimensional obstruction surfaces

- Analyses support planning for runway extensions and disaster planning and communicating with the public the need for clearing/removal/mitigation

Obstruction Modeling Tool with ArcGIS: Kinston Regional Jetport (ISO)

Kinston, NC

Obstruction Modeling Tool with ArcGIS

- ArcGIS Aviation Airports extensions supports analysis and visualization of existing and potential aviation obstructions.

- Data for existing obstructions comes from FAA's Digital Obstacle File, which covers the entire US and is updated every 56 days.

- Data for runways is also sourced from the FAA and used to model three dimensional obstruction surfaces

# Obstacle Identification Surfaces for ISO

Obstacle Analysis for ISO

Legend:
- Approach Surface
- Obstacle Below Approach Surface
- Obstacle Penetrating Approach Surface
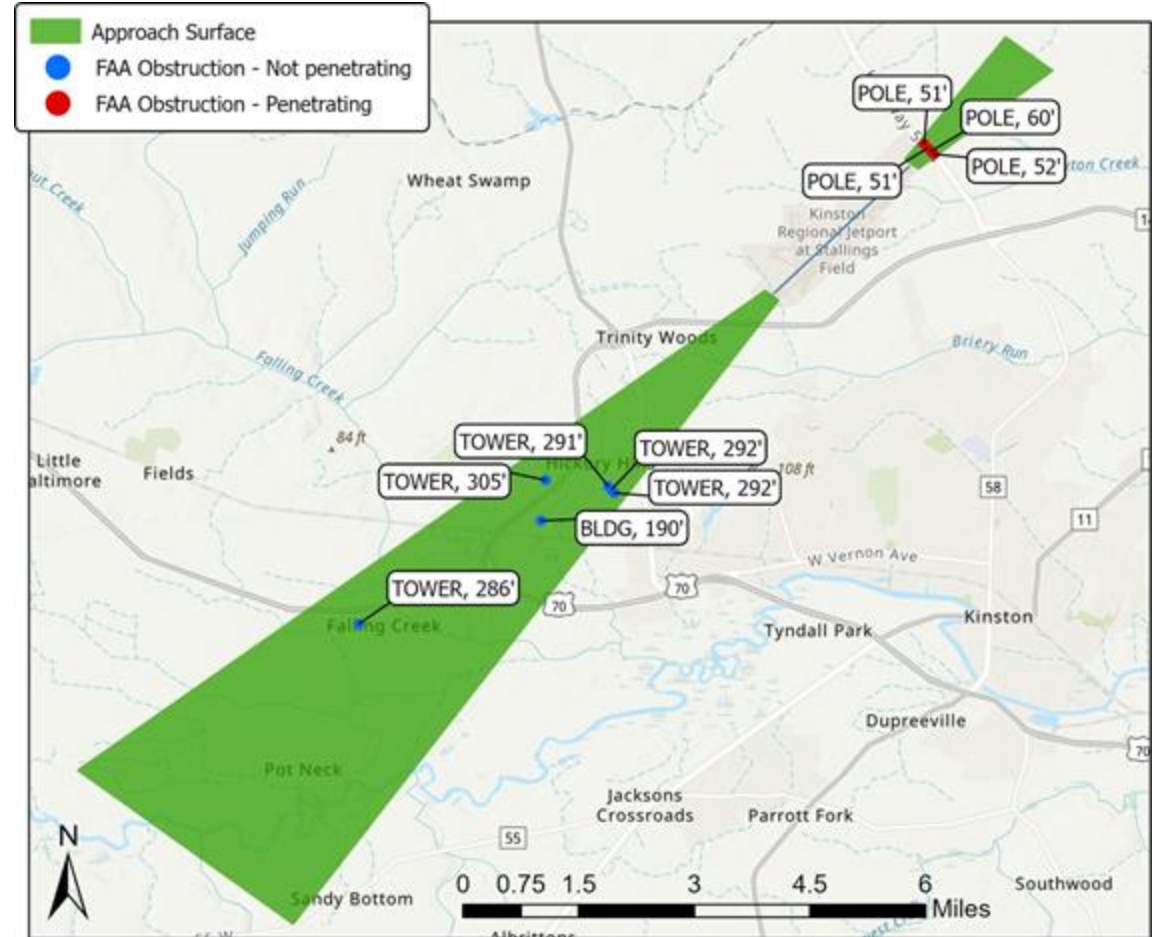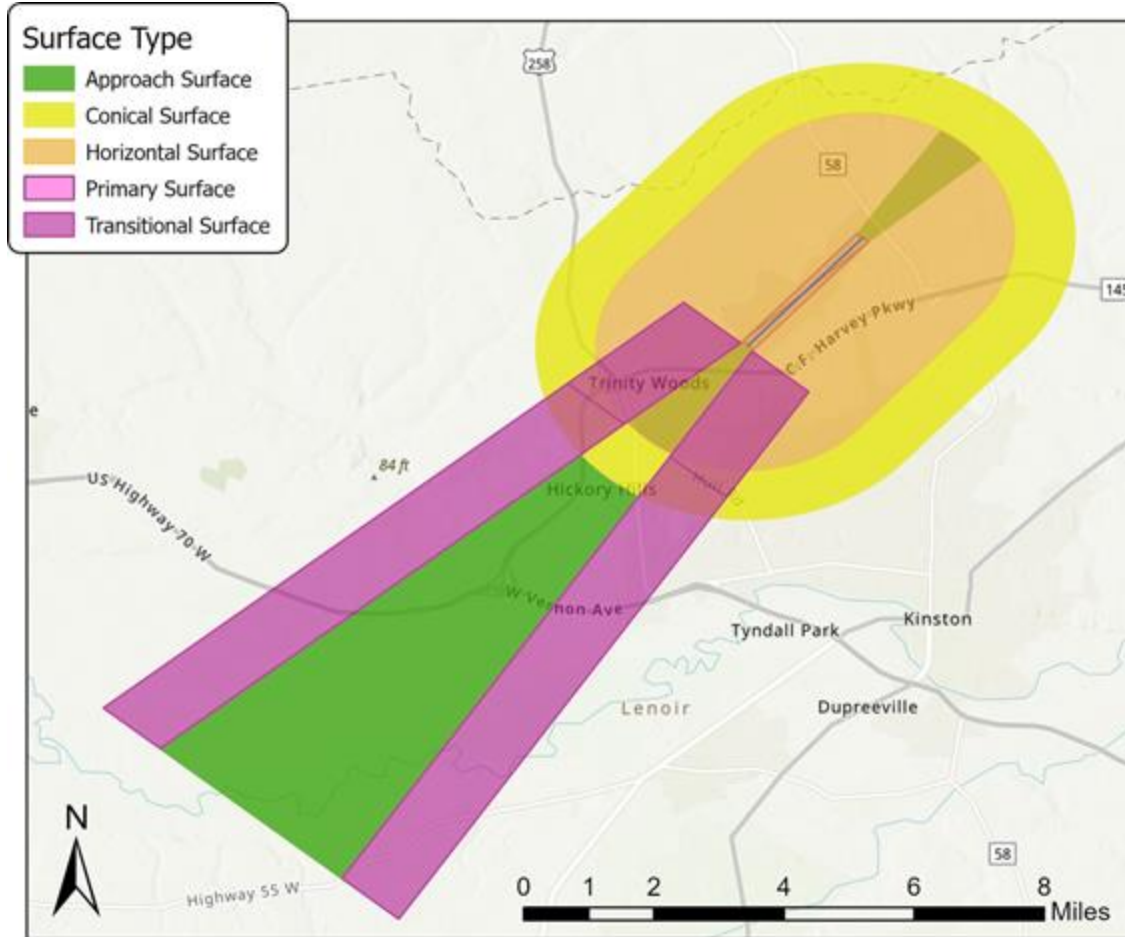
1. TOWER – 292'
2. TOWER – 292'
3. TOWER – 291'
4. BLDG – 190'
5. TOWER – 305'
6. TOWER – 286'
7. POLE – 52'
8. POLE – 60'
9. POLE – 51'
10. POLE – 51'

Obstruction Modeling Tool for ISO

3D Visualization from High-End PIR Approach Surface

3D Visualization from Low-End NPI Approach Surface
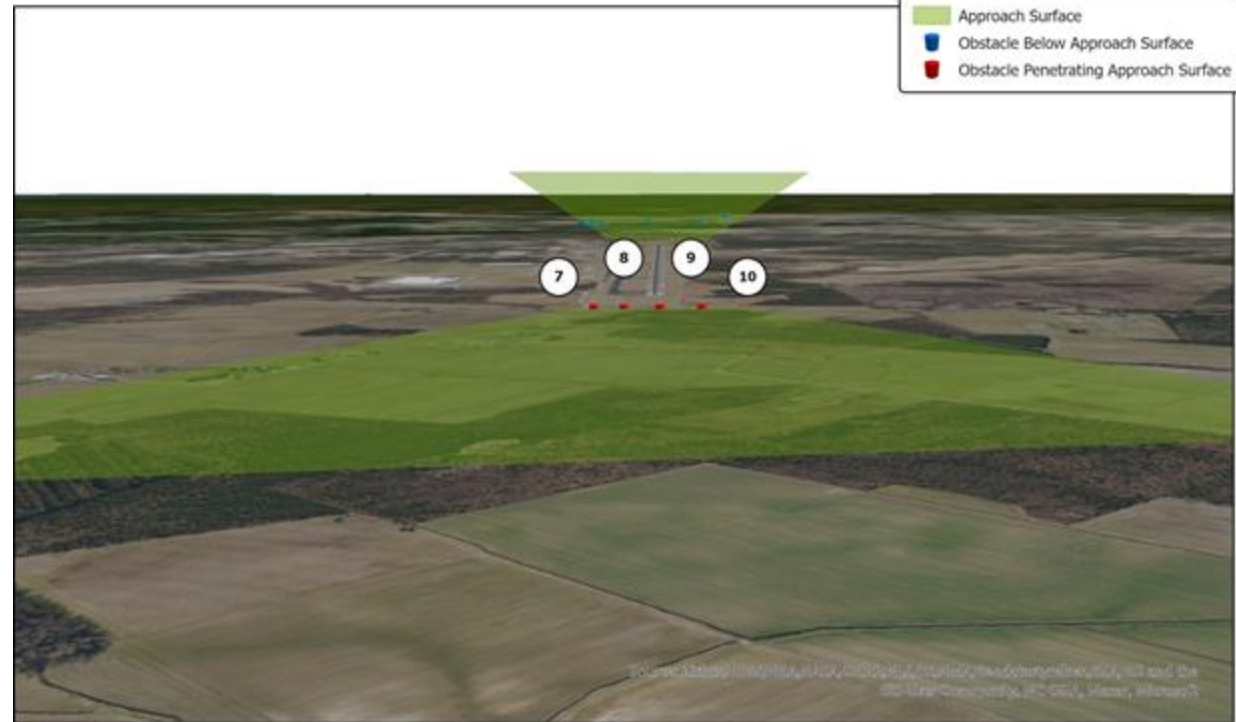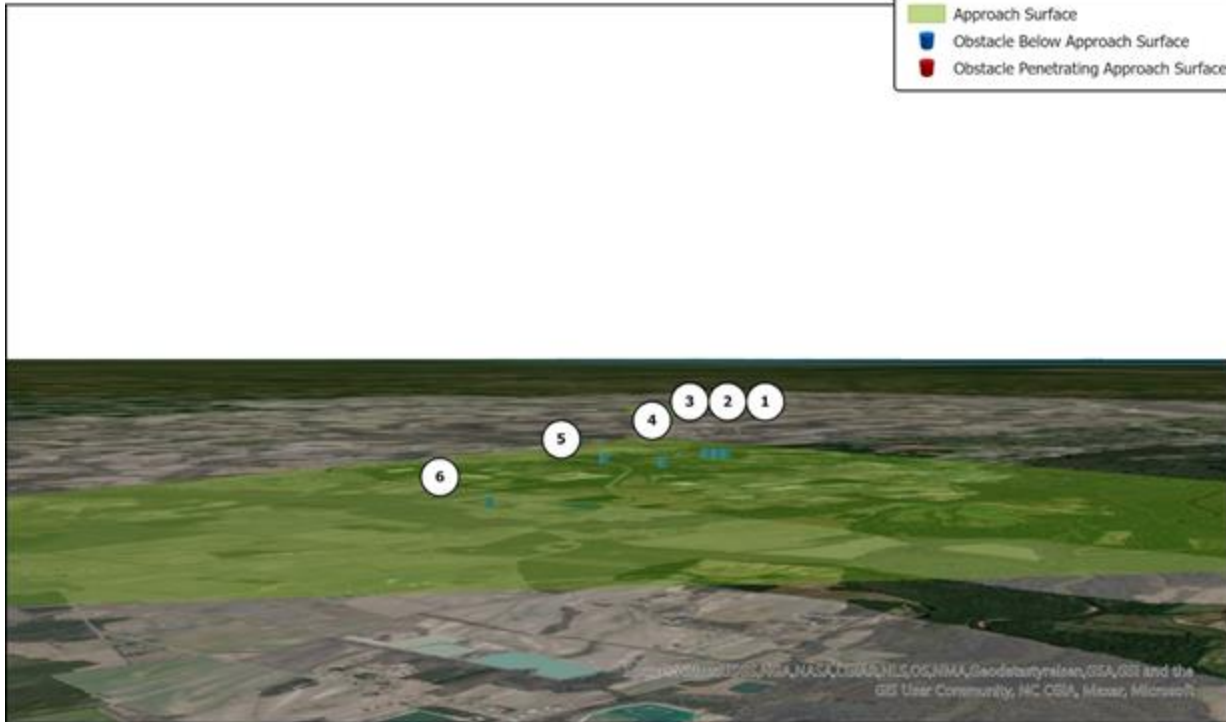
Obstacle Analysis for ISO

3D Obstacle Analysis Video for ISO (Low-End Runway)
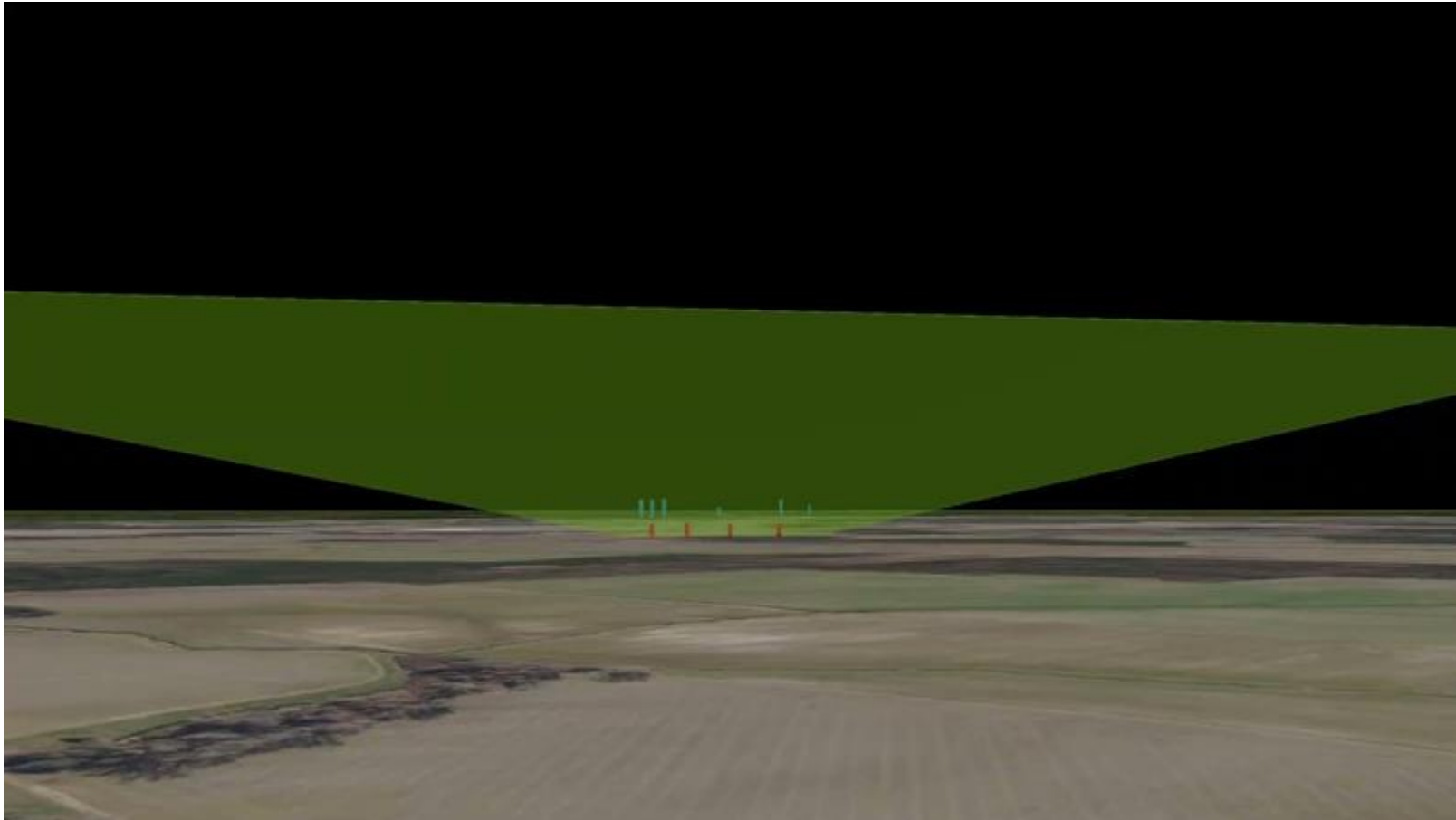
Obstacle Analysis with ArcGIS: Laurinburg-Maxton Airport (MEB)

Maxton, NC

Obstacle Analysis with ArcGIS

- ArcGIS Aviation Airports extensions supports analysis and visualization of existing and potential aviation obstructions.

- Data for existing obstructions comes from FAA's Digital Obstacle File, which covers the entire US and is updated every 56 days.

- Data for runways is also sourced from the FAA and used to model three dimensional obstruction surfaces

Obstacle Identification Surfaces for MEB
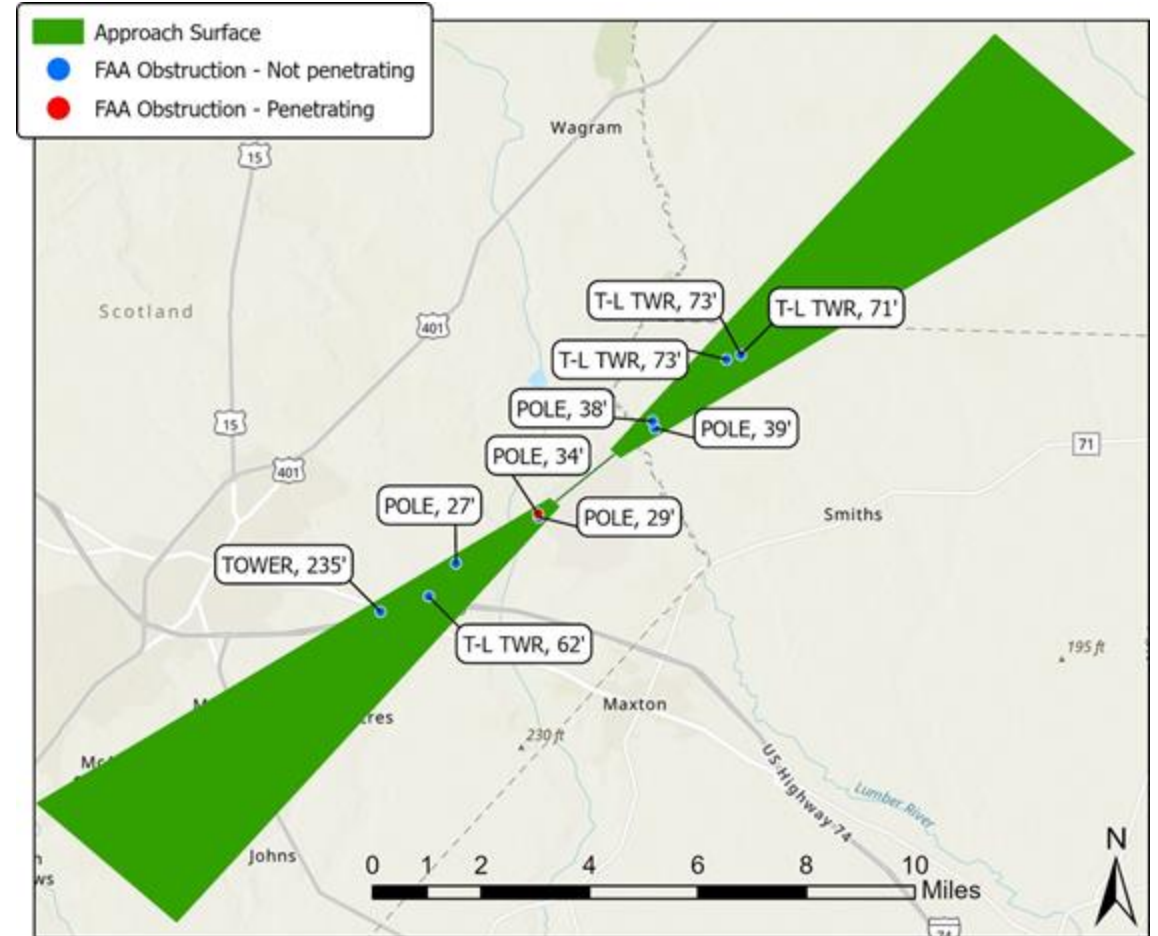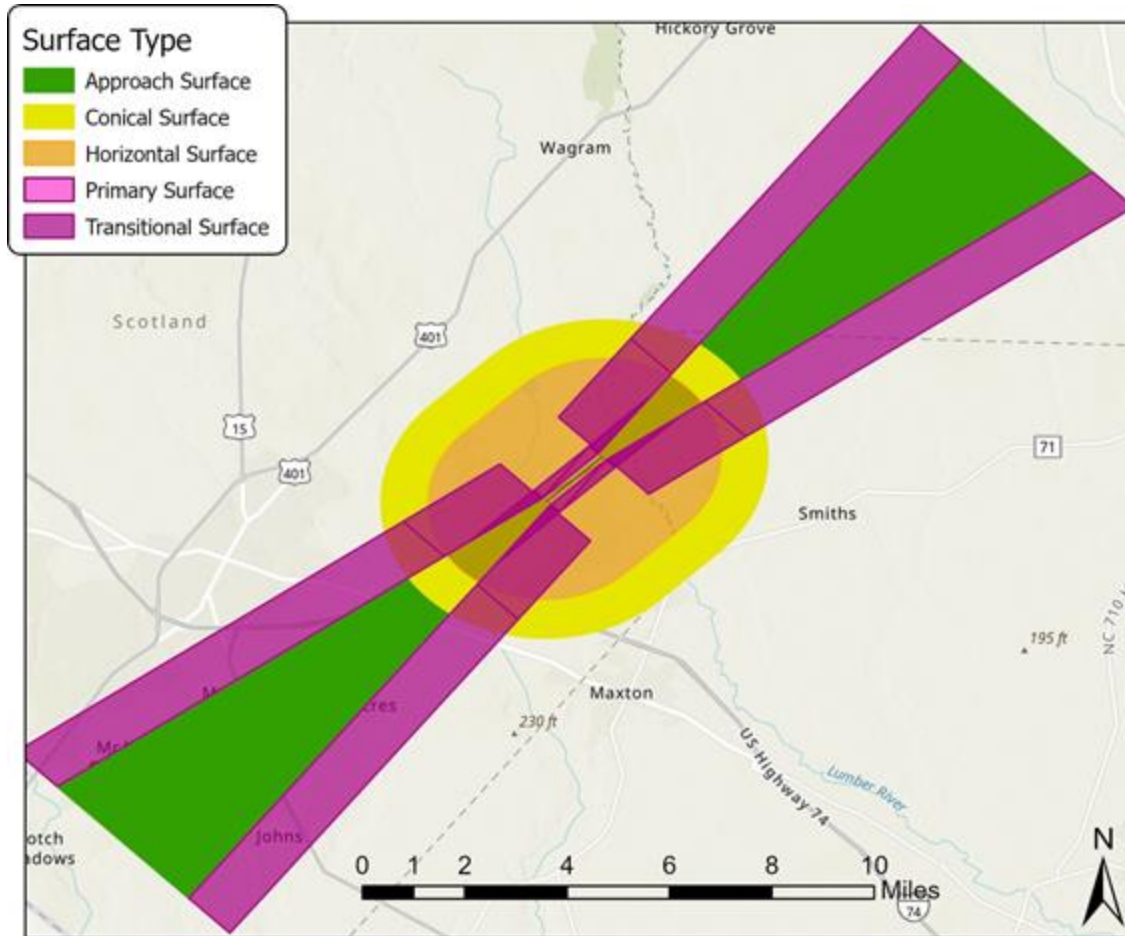
Obstacle Analysis for MEB

① TOWER – 235'

② T-L TWR – 62'

③ POLE – 27'

④ POLE – 34'

⑤ POLE – 29'

⑥ POLE – 38'

⑦ POLE – 39'

⑧ T-L TWR – 73'

⑨ T-L TWR – 73'

⑩ T-L TWR – 71'

Obstacle Analysis for MEB

3D Visualization from High-End PIR Approach Surface

3D Visualization from Low-End PIR Approach Surface

Obstacle Analysis for MEB

3D Obstacle Analysis Video for MEB (Low-End Runway)
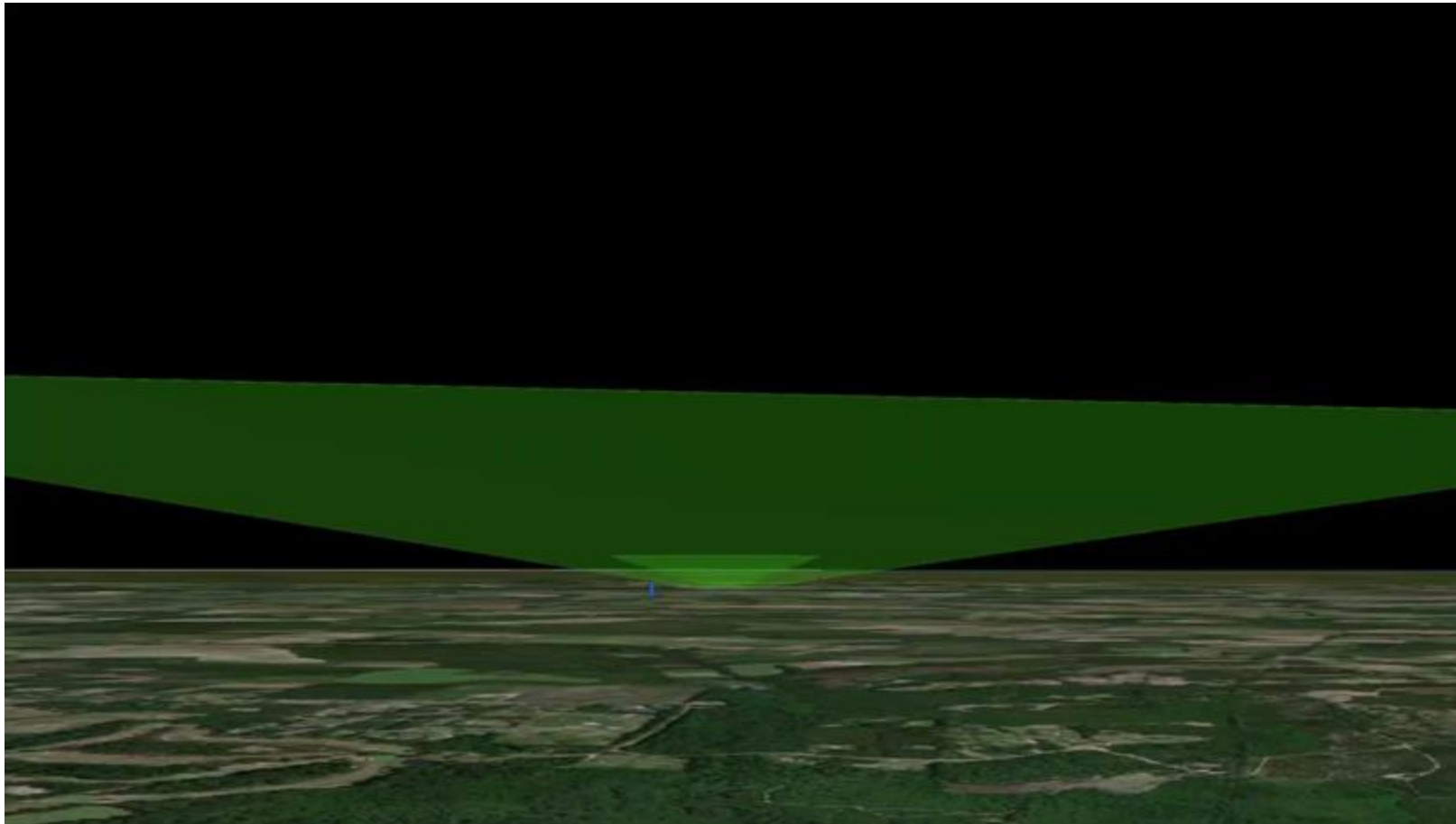
Obstacle Analysis with ArcGIS:
Smith Reynolds Airport (INT)

Winston Salem, NC

Obstacle Analysis with ArcGIS

- ArcGIS Aviation Airports extensions supports analysis and visualization of existing and potential aviation obstructions.

- Data for existing obstructions comes from FAA's Digital Obstacle File, which covers the entire US and is updated every 56 days.

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Obstacle Identification Surfaces for INT
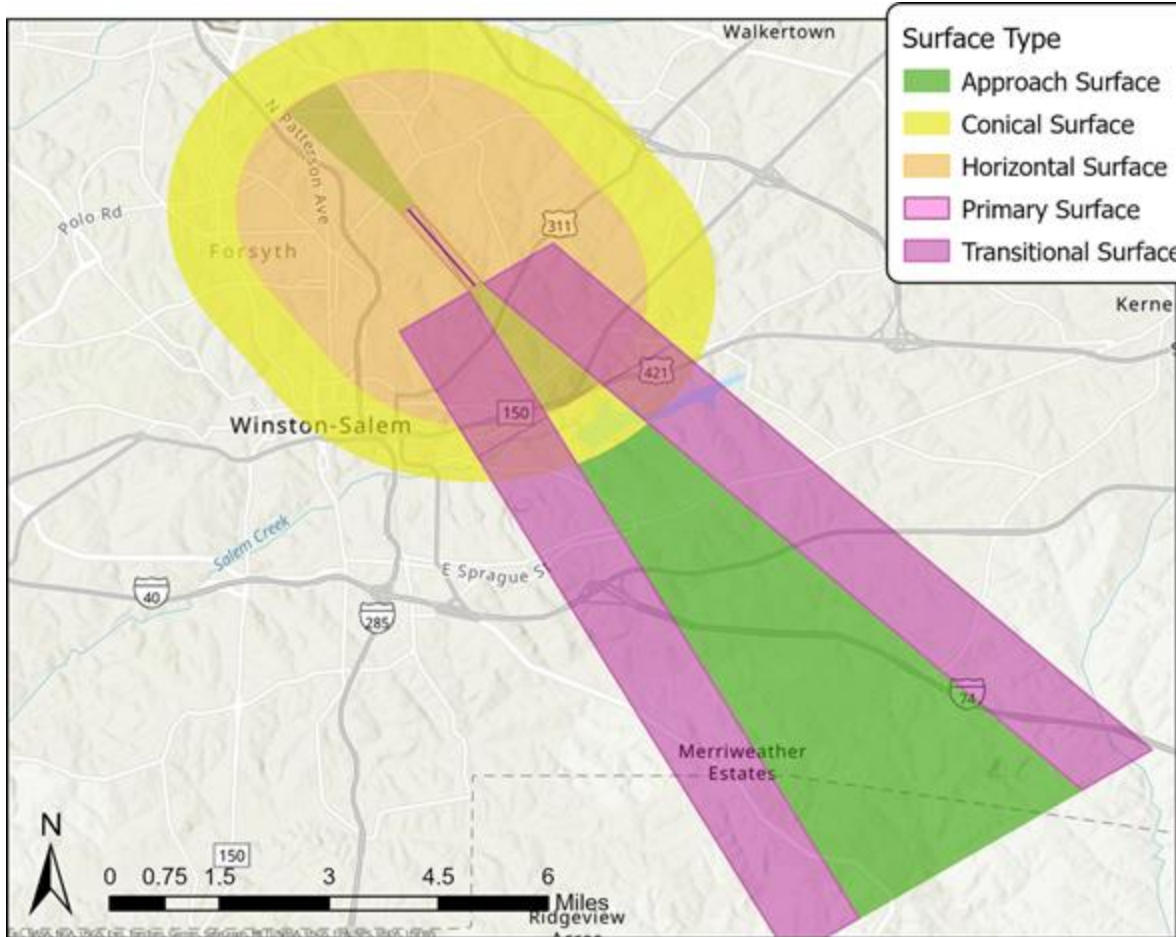
Obstacle Analysis for INT
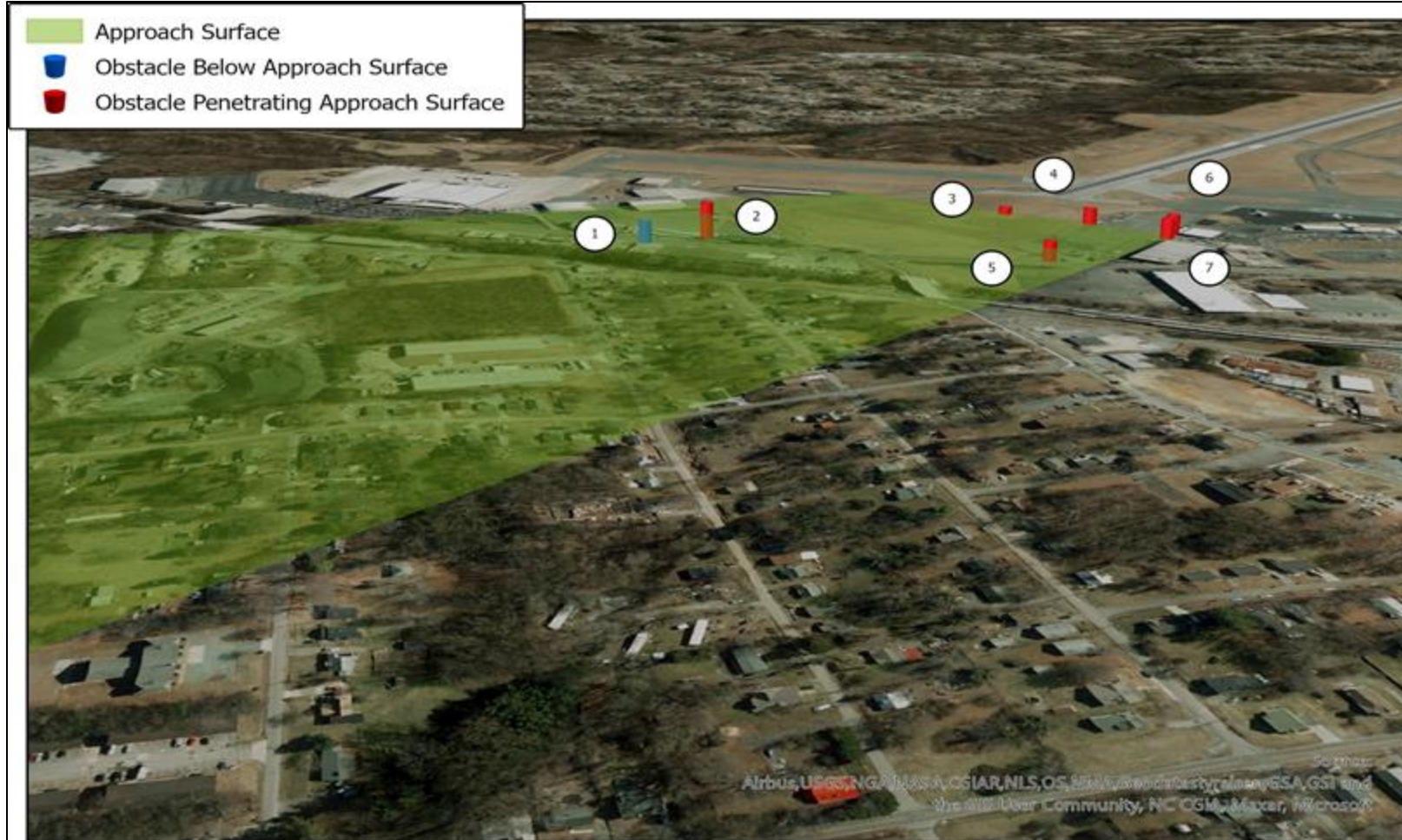
1. POLE – 35'
2. BLDG – 59'
3. NAVAID – 12'
4. ELEC SYS – 27'
5. POLE – 32'
6. BLDG – 30'
7. BLDG – 34'

Obstacle Analysis for INT

3D Visualization from Low-End NPI Approach Surface

3D Visualization from High-End PIR Approach Surface

Obstacle Analysis for INT

3D Visualization with Building Footprints
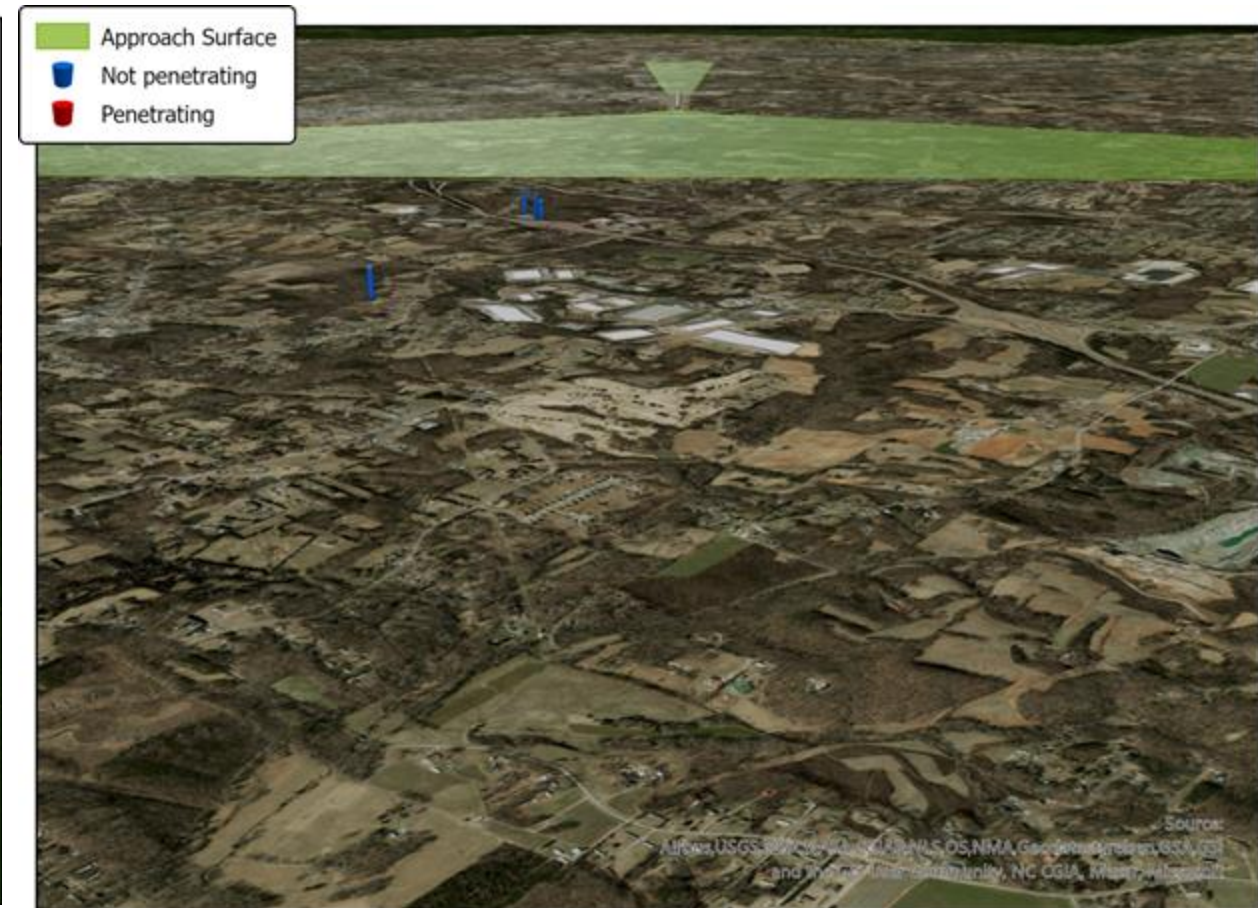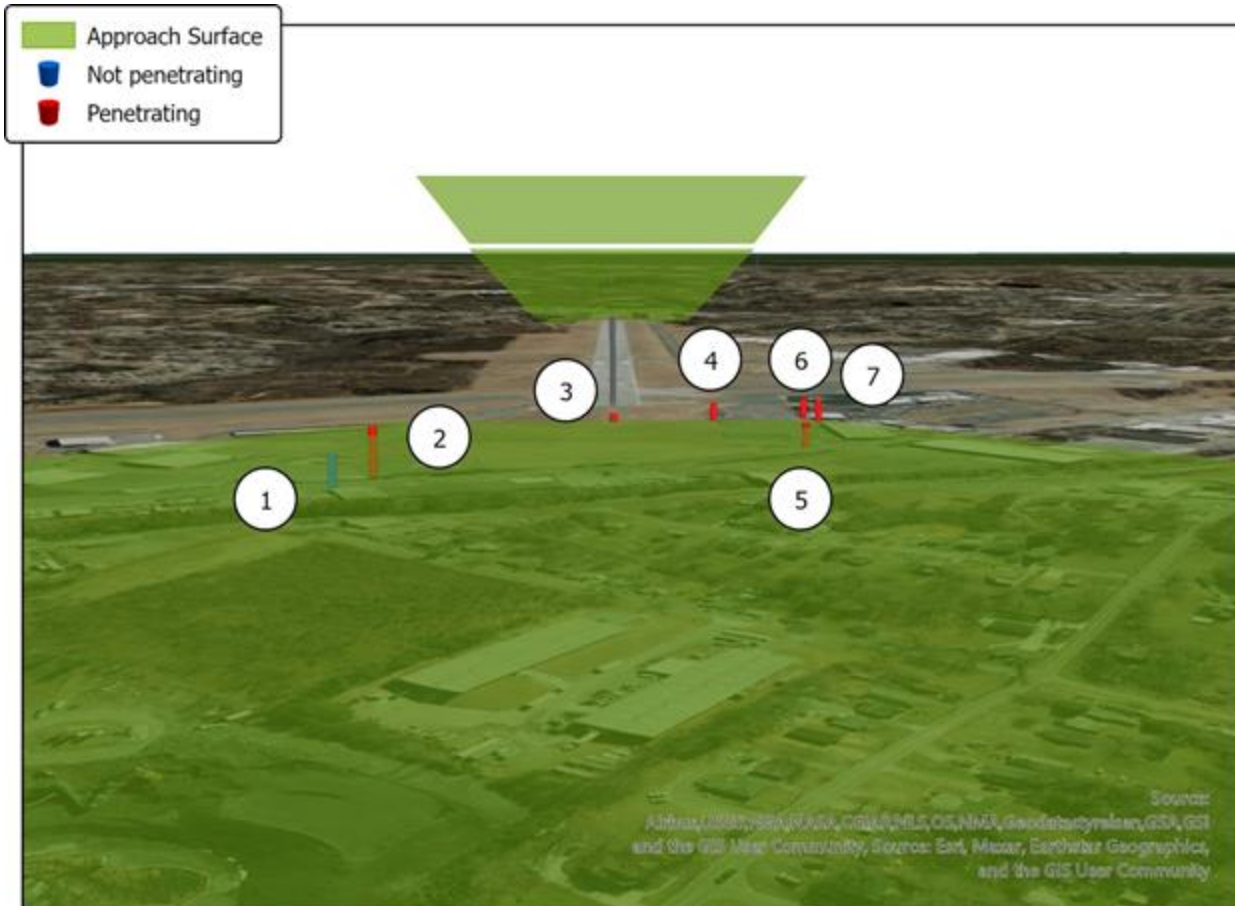
Obstacle Analysis for INT

3D Obstacle Analysis Video for INT (Low-End Runway)
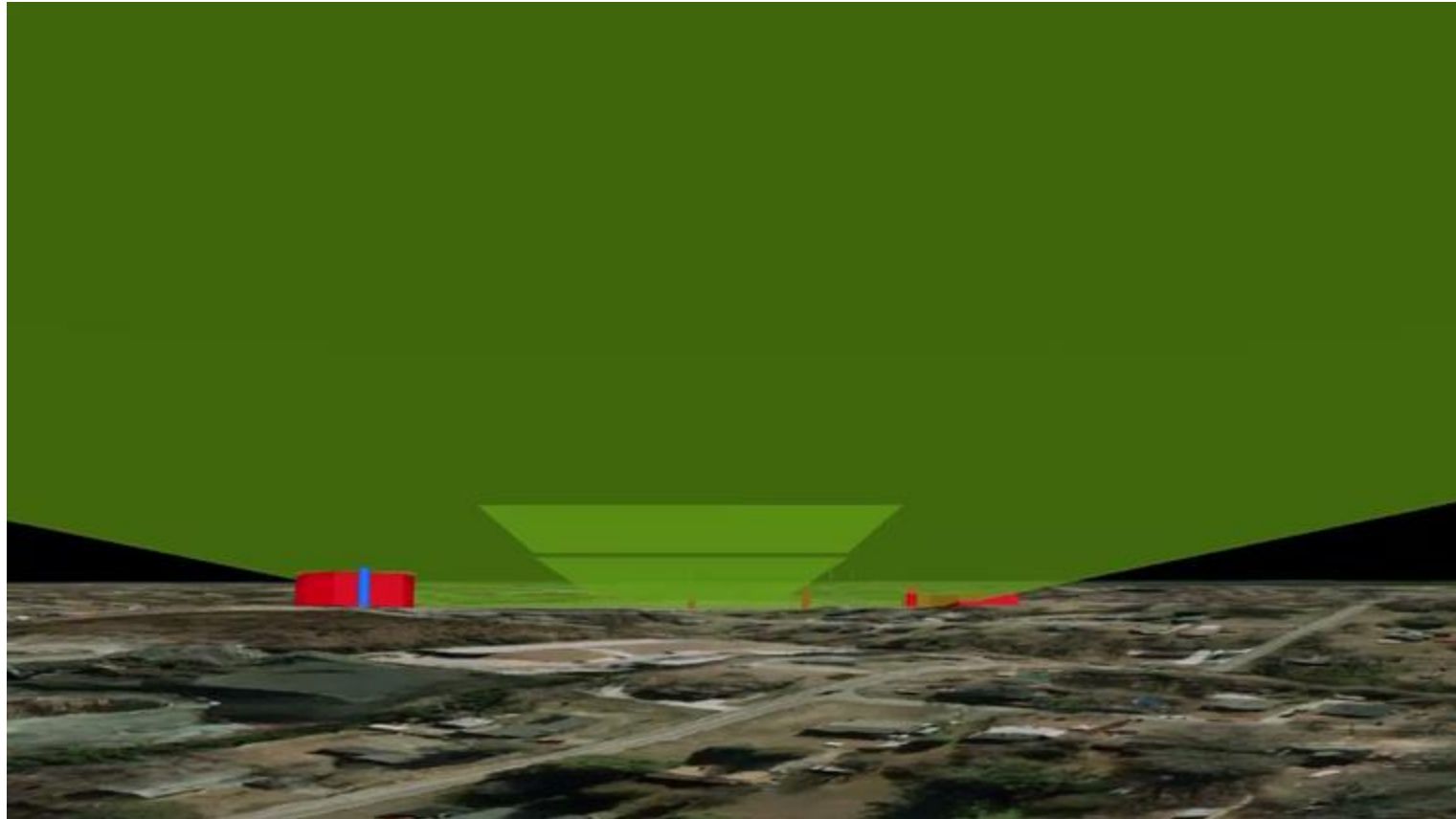
Airfield Obstruction Analyses
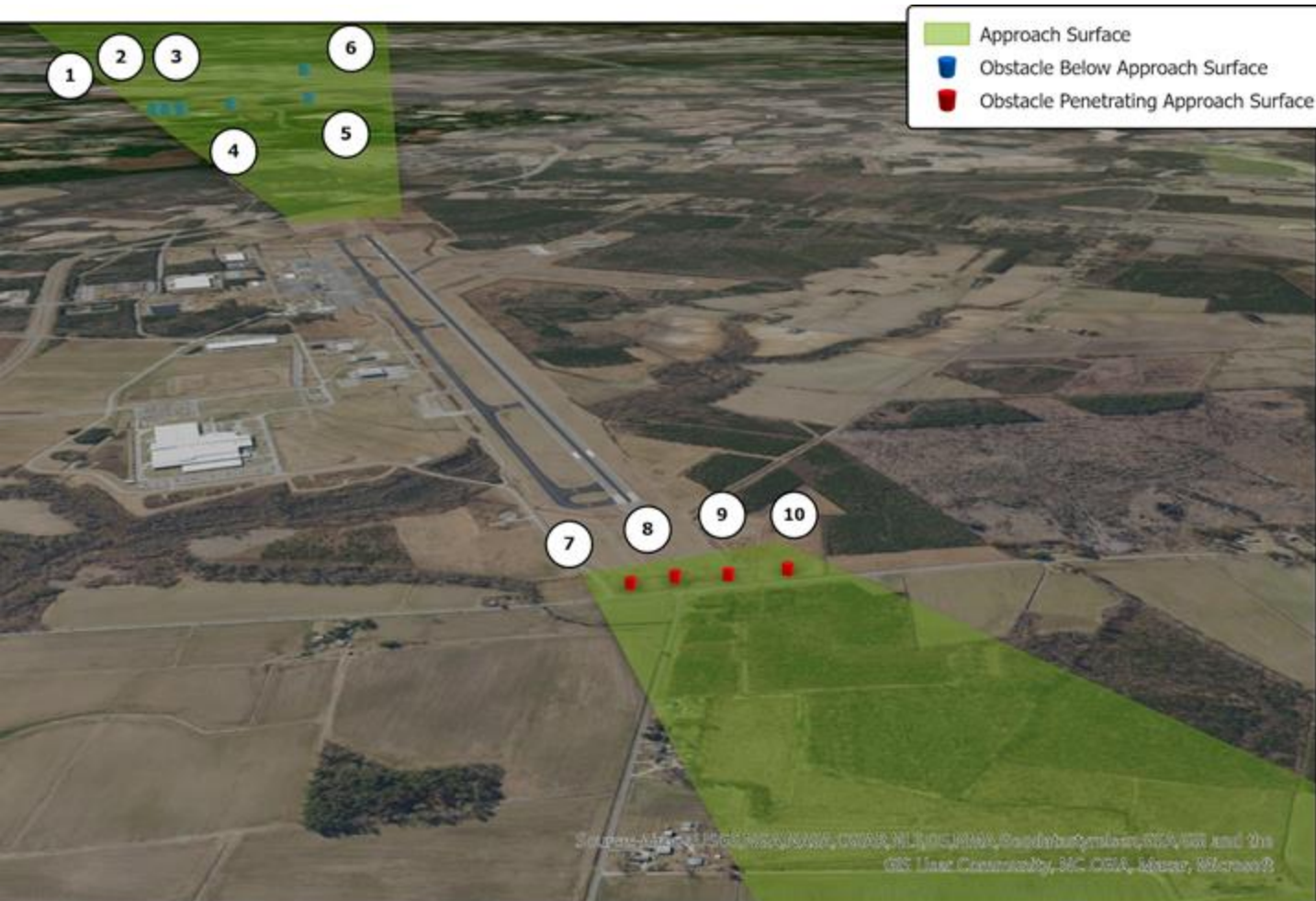
- Ask your airport project manager whether you need this analysis

- If so, your APM can facilitate the analysis with ITRE

Contact:

Training

FFY 2025 Regional Airport Wildlife Hazard Training

- March 12 – Hickory Regional Airport
- May 7 – Albert J. Ellis Airport
- July 16 – Burlington-Alamance Regional Airport

Registration and Information:

Chris Willis, USDA, chris.e.willis@usda.gov

ALMP 4, Funding & Finance
March 12 | Greensboro, NC

Topics:

- Airport Expenses
- Airport Revenue
- How to Comply with Funding Regulations
- Grants System Overview

Details:

- **$35 course fee** includes lunch and workbook. Note: This is one of three mandatory ALMP courses available *only* in person.

Registration:

- **go.ncsu.edu/ncairtap-almp3**

All 10 Airport Board Member Training (ABMT) modules online
Great for new staff orientation, too!

- Mod 1:
  Airport Board Organization
- Mod 2:
  Understanding Your Airport
- Mod 3:
  Airport Facilities & Equipment
- Mod 4:
  Airport Minimum Standards
- Mod 5:
  Airport Rules and Regulations

- Mod 6:
  NCDOT Programs & Airport Resources
- Mod 7:
  Airport Operations
- Mod 8:
  Airport Economic Impact
- Mod 9:
  Grant Assurances and Compliance
- Mod 10:
  Financing, Budget & Procurement

Register at **go.ncsu.edu/ncairtap-abmt**

Staying Connected

NCDOT Aviation Monthly Email & Related Connect Site Additions

1. **Airport emails** with requests and guidance – linked to **Airport Emails archive** on the Connect site

2. **Calendar** of due dates and events – linked to new **FY 2025 Master Calendar** on the Connect site

3. **Guidance** under development

[FYI] NCDOT Aviation Monthly – Events, due dates,...

BG Gallas, Rebecca J <
    To   Gallas, Rebecca J   Thu 8/29
    Cc   Schronce, Jason B;
          Bingham, Rachel S; **+12 others**

(i) You forwarded this message on 8/29/2024 10:51 AM.

N.C. Public Airport Community,

Welcome to *NCDOT Aviation Monthly*, the first of a new email series NCDOT Aviation will send to the airport community the end of each month. It will contain:

- Emails requesting action and providing guidance that have been sent to the community in the past month
- Events and due dates for the coming two months
- New guidance expected to be released soon

We'll also begin posting on the NCDOT Airport Grants Connect site *(formerly called State Aid to Airports and Federal Block Grant Program)* for your quick reference:

- A copy of the emails we send to the airport community, containing guidance, invitations and requests for action
- A Master Calendar of events and due dates for the fiscal year

New Connect Site Features

N.C. Aviation Master Calendar

FY 2025 Aviation Master Calendar Rev. 8-30-24   [PDF]

Airport Emails

View **NCDOT Aviation email requests** and notifications sent to N.C. public airports

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Five Key Communication Channels for Airports and Consultants

- NCDOT Connect site
- Quarterly airport community meeting and slides
- Topical emails with requests and guidance
- New NCDOT Aviation Monthly email
- NCAA region meetings

Questions? Comments?

FY 2025 Airport Community Meeting Schedule

Quarterly, fourth Tuesdays
10:30 a.m., virtual

- Jan. 28, 2025
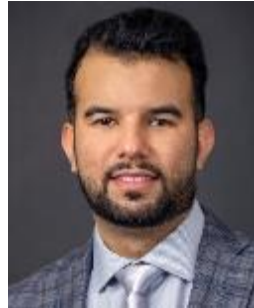- April 22, 2025
- July 22, 2025
- Oct. 28, 2025

Raj Kondapalli
Western Region Lead
Interim NW Region

Tommy Mann
Eastern Region Lead
Interim SE Region

Robin Peele
Northeast Region

Mostafa Moradi
Southwest Region

Mortaza Habibi
Commercial Service Airports

Airport Project Managers (APMs)

Your go-to resource for airport development

- Primary contact for airports

- Annual planning meetings

- Airport Layout Plans/Master Plans

- Project meetings

- Safety & compliance support

- Education and training

- Mini "FAA Airports District Office"

*View **updated APM map** on the Connect site, bottom right column*

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Thanks for all you do to develop a strong public airport system for North Carolina!