### Williston Basin **International Airport Master Plan** Stakeholder Advisory Committee **Landside Facility Recommendations Meeting**

May 16, 2023

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**Andy Loftus** 

**Anthony Dudas** 







1

### Landside Facility Recommendations Agenda

- Welcome & Introductions
- Master Plan Progress Update
- Landside Facility Recommendations & Alternatives
  - Terminal Vehicle Parking
  - Ground Service Equipment Building
  - Snow Removal Equipment
  - Aviation Support Facilities
  - Utility Improvements
- Next Steps
- Discussion/Questions







## **Project Consultant Team**



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3

## Welcome & Introductions

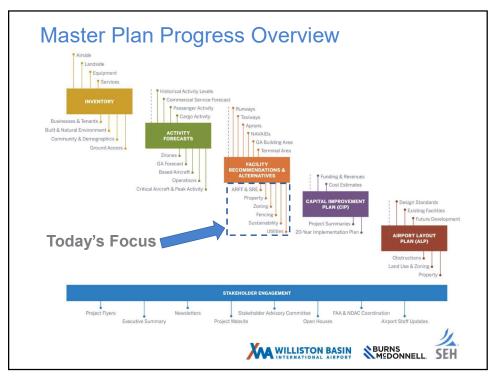
- Name
- Organization
- Role















### Landside Facility Recommendations

- · Commercial Service Terminal Building
- Terminal Curbside Traffic Lanes
- Ground Transportation
- Terminal Vehicle Parking
- · Ground Service Equipment (GSE) Building
- Snow Removal Equipment (SRE)
- Aircraft Rescue and Fire Fighting (ARFF)
- Aviation Support Facilities
- Utilities
- · Airport Property, Acquisition, and Easements
- Zoning







9

# **Terminal Expansion**







### **Terminal Building**

- Building Capacity 300 design hour enplanements
  Forecasted Design Hour Enplanements 73 (2038)
- 3 Passenger Boarding Bridges
  - Total operations forecasted stay consistent through planning period
  - Space saved for additional gates and PBBs on ALP

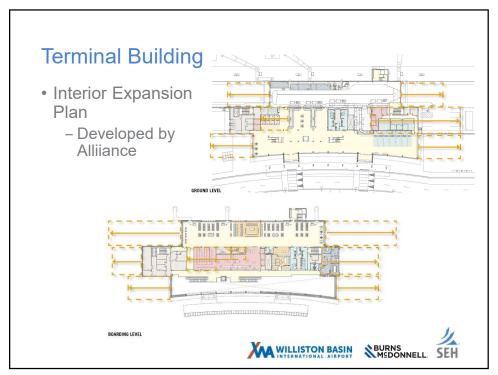








11







# Terminal Vehicle Parking



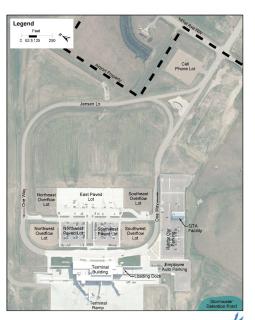




15

## Parking Facilities (Existing)

- Does not meet existing peak demand
- The airport could explore options for duration-based parking fees
- Rental car parking expansion may be needed



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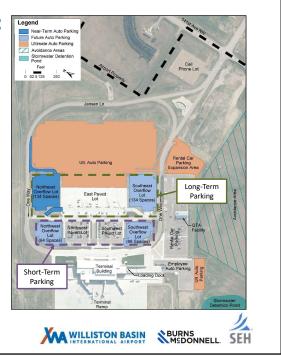


### **Future Parking Area:**

Develop plan to pave overflow lots to meet growing passenger demand. Plan for longer-term expansion

### Key Takeaway:

Provides flexibility to add parking spaces and rental car spaces as needed



17

# Ground Service Equipment (GSE) Building







## **Ground Service** Equipment

- · Storage and maintenance below terminal building
  - Congestion
- Leased storage area at Overland Aviation - long distance from terminal
- Future space should plan for electrification of vehicles



19

### **Alternative A:**

Site identified by Alliiance and Burns & McDonnell during airport design process

### Key Takeaway:

Smaller GSE Building w/ dedicated parking lot and airside connection









### **Alternative B:**

Building as depicted on Airport Layout Plan (ALP)

### Key Takeaway:

Larger GSE building w/ vehicle through lanes







21

Snow Removal Equipment (SRE)







## Snow Removal Equipment (SRE)

Airport Owned SRE

Equipment Type	Brand	Model	Manufacture Year	End of Useful Life (Per AIP Handbook)
Truck	Ford	F-250	2015	2025
Liquid Deice Trailer	Batts	T1100	2015	2025
Truck	Ford	F-350 Dyna-Test CFME	2015	2025
Sweeper/Rotary Plow	Oshkosh	H-Series Broom/Snow Blower	1991	2001
Displacement Plow/Hopper Spreader	International	2.5T Truck w/Plow (Auto)	1995	2005
Plow	International	2.5T Truck w/Plow (Manual)	1981	1991
Plow/Sweeper	MB	MB-5 Plow/Broom Truck	2012	2022
Plow/Sweeper	MB	MB-5 Plow/Broom Truck	2014	2024
Plow/Hopper Spreader	MB	MB-1 6x6 Plow Truck	2014	2024
Plow/Hopper Spreader	MB	MB-1 4x4 Plow Truck	2015	2025
Displacement Plow	Bobcat	Toolcat 5600	2013	2023
Rotary Plow	Bobcat	Toolcat 5600	2018	2028
Sweeper	Bobcat	Toolcat 5600	2006	2016
Loader/Displacement Plow/Sweeper	CAT	908 Wheel Loader	2006	2016
Loader/Rotary Plow/ Displacement Plow	CAT	962 Wheel Loader	2006	2016

#### SRE Needs

Eligible Item	Existing SRE	FAA Eligible SRE	Size
Rotary Plow	3	2	8,897 tons/hr
Displacement Plow	4	4	88 ft, total
Sweeper	5	4	-
Hopper Spreader	3	4	-
Front End Loader	2	1	-

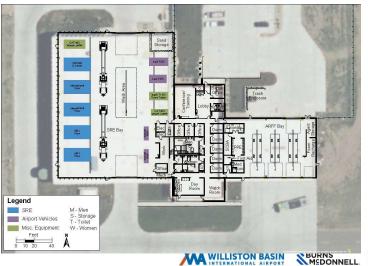
#### Recommendation:

SRE vehicles should be replaced based on need and available funding

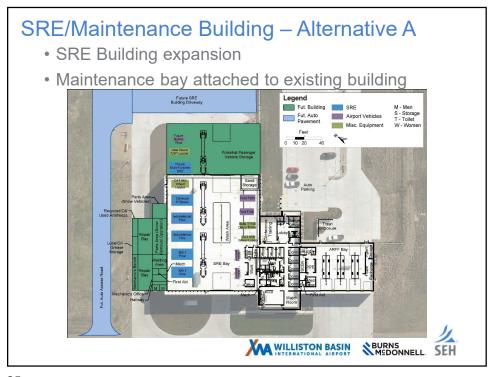
23

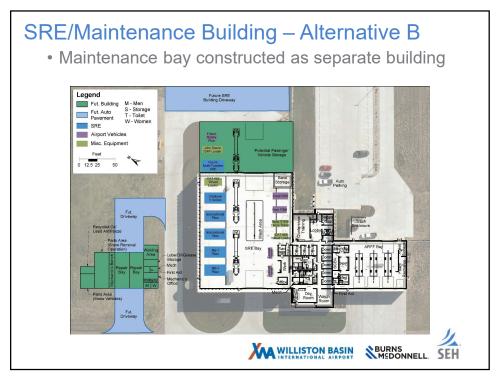
## SRE/Maintenance Building

- Not enough space for existing equipment
- No dedicated maintenance bay









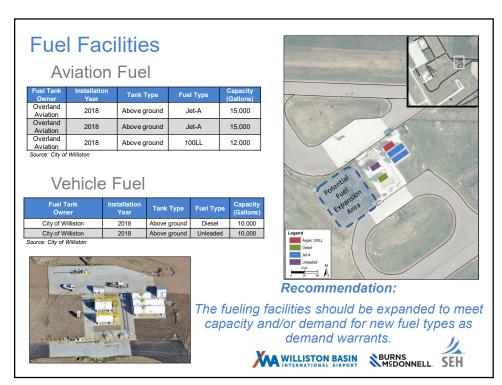
# **Aviation Support Facilities**







27



### General Aviation Automobile Parking & **Access Roads**



- GA building area accessed from 141st Avenue NW via Cooperation Drive
- Auto parking at the FBO is accessed via Dedication Drive and Commerce Drive
- FBO parking demand exceeds available space during peak cargo operations
- Roads built in 2019 good condition

#### Recommendation:

Routine maintenance continue to be performed to extend the life of the pavement

Additional parking to be constructed as needed





29

## **Utilities**







#### Wastewater

- Airport is not served by a sanitary sewer
  - Gravity flow from all facilities to 45,000 gallon holding
  - Contracted to have sanitary waste pumped from tank (near fuel farm) several times per week
  - Several miles to nearest municipal sewer connection
- Sanitary sewer service would eliminate several pumping trips/services per year







31

### Sanitary Sewer Expansion

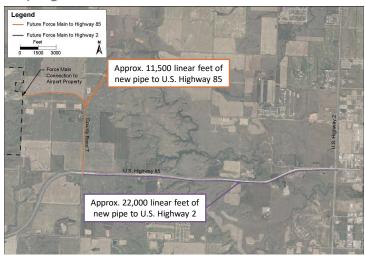
• Proposed extension to alleviate need for continuous pumping





### Sanitary Sewer Expansion

• Proposed extension to alleviate need for continuous pumping



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33

### Sanitary Sewer Expansion

- Approximately 37,500 feet of total piping and pump station improvements
- Eligible for federal funding on airport property
  - Eligible when serving FAA eligible facilities (ie. commercial and GA terminal spaces)
- Project is best coordinated with associated local sanitary sewer extension
- Extension could support other economic development opportunities along the expansion route





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# Landside Recommendations Discussed at Previous SAC Meeting







35

## **Aviation Support Facilities**

- Airport Fencing
- · Airport Property, Acquisition, and Easements
- Zoning







### **Airport Fencing**

- 10-foot wildlife and security fence around the airfield
- Installed at XWA in 2019 good condition.

#### Recommendation:

Inspect fence line daily

A fence inspection schedule should be included in the Wildlife Hazard Management Plan (WHMP)









37

## Airport Property, Acquisition, and Easements

- City of Williston owns 1,570.3 acres in fee for XWA
- City to acquire 13 acres for Runway 14 extension to 8,500 feet and ½ mile visibility minimums
- No other changes to airport property are recommended in the 20-year planning period.





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### Airport Zoning

- City of Williston holds jurisdiction over airport property
- · Land use surrounding the airport is controlled by the Joint **Powers Board**
- Two types of zoning in effect at XWA:
  - Municipal land use zoning
    - Development on airport property subject to Development Standards set forth by the City of Williston. Land surrounding the airport is submit to Williams County zoning and is zoned agricultural.
  - Airport safety overlay zoning
    - · Height and safety zoning to protect airspace and to keep the surrounding area clear of incompatible land uses.
    - The 2015 Williams County Zoning Ordinance and Subdivision Regulations was amended in May 2019 by the Joint Powers Board for the newly constructed airport.







39

# **Airport Zoning** Airport Safety Zoning Overlay Municipal Land Use & Zoning Recommendation: No changes are recommended to the zoning in place on and around the airport. WILLISTON BASIN BURNS MEDONNELL SEH



## Master Plan Next Steps

### **Project Team**

- Submit final Landside Facility Recommendations & Alternatives chapter to NDAC & FAA for review
- FAA & NDAC completing final review of Airside Facility Recommendations & Alternatives
- Begin Financial Planning based on results of the airside and landside facility recommendations
- Public outreach Open House & Air Show events

#### · SAC

- Meeting #6:
  - August 2023
  - Topics
    - Implementation Plan, Financial Analysis & 20-year Capital Improvement Plan
    - Final document review
    - Airport Layout Plan update







