

Monday, September 11, 2023

Federal Aviation Administration Mr. Jason Garwood Helena Airports District Office FAA Building, Suite 2 2725 Skyway Drive Helena, MT 59601

RE: Bozeman Yellowstone International Airport (BZN), 2020 Master Plan Update - Addendum

Dear Mr. Garwood.

Please accept this as an addendum to the 2020 BZN Master Plan Update amending the projected timelines for the items listed below as presented in Section 7.9 of Chapter 7 Financial Analysis.

- Taxiway B
- Taxiway B West Extension
- Taxiway C4 New Construction
- Taxiway G Ultimate North Extension and Hangar Area

These projects have moved from the Beyond Planning Horizon (beyond 20 years) category into the Short Term (2021-2025) and Intermediate Term (2026-2030) schedules for the airport.

Also, this addendum includes adding the below projects to the Environmental Assessment (EA) Titled "EA Runway 11-29 to CIII Standards, North Side and Airport Road Relocation Improvements" also called out in Section 7.9.

- Taxiway B
- Taxiway B West Extension
- Taxiway C Relocation
- Taxiway C West Extension
- Taxiway C4 New Construction
- Taxiway G Ultimate North Extension and Hangar Area
- Northside Apron Phase 2

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VOR Relocation

These items will be added to the EA as per the meeting with the FAA Helena ADO at BZN on April 17, 2023. If you should have any questions regarding this addendum, please do not hesitate to call.

Sincerely,

Mark Maierle, P.E.

Enclosures: Capital Projects (Revised 2023), Figure 1 EA Exhibit

CC: Brian Sprenger, President and CEO, Bozeman Yellowstone International Airport

Capital Projects (Revised 2023)

To develop a CIP, the facility requirements and concepts identified in previous chapters were refined into discrete fundable projects. These projects were phased according to need, priority and critical path to establish a planning level development schedule. Many large scale planning concepts require multiple related and / or dependent projects to be achieved. Maintenance projects such as pavement rehabilitation and reconstruction are timed according to pavement conditions and cycling identified in the facility requirements chapter. Projects are phased in groups of short term (2021-2025), intermediate term (2026- 2030) and long term (2031-2040). Projects for accomplishing ultimate master plan objectives are also identified beyond the 20 year planning horizon.

The following identifies the phased CIP projects grouped according to the master plan concepts they support and a planning meeting with the FAA Helena ADO on April 17, 2023. These projects were used to update the 20-Year Capital Improvement Program.

Runways & Taxiways

Concept: Ultimately extend Runway 12-30 to 10,828 feet. This is a phased development with an initial extension of 328' to align with 11-29 in short term and accommodate the installation of MALSR RW 30. The ultimate full length extension to the west would occur beyond the planning horizon. Parallel taxiways are extended to correspond with runway lengthening projects.

Short term

- Localizer upgrade, install MALSAR Runway 30
- Runway 12/30 east extension (328' X 150', 25' shoulders)
- Taxiway C1 S Realignment
- Taxiway A east extension (new A1 connector)

Long Term

- Taxiway A widening to add 17.5' shoulders (standards)
- Runway 12/30 widening to add 12.5' shoulders (standards)

Beyond Planning Horizon

- Runway 12/30 west extension
- Runway 12/30 ultimate extension
- Taxiway A west extension
- Taxiway A ultimate west extension

Concept: Ultimately extend and widen Runway 11-29 to 8,500 feet by 150 feet. Extension would be by 2430' to the west and by 1020' to the east. The separation between Taxiway C and Runway 11-29 is increased to 400 feet to meet future standards. Rerouting of Airport Road and partial removal of Tubb Road are required to accommodate the extended runway and relocated taxiway.

Short term

- EA Runway 11-29 to CIII Standards, North Side and Airport Road Relocation Improvements
 - Review ATC Tower siting
- VOR Relocation
- Airport Road Relocation
 - o Fill and grade gravel pit waste area,
 - o Review stop light and turn bay improvements on U.S. Hwy 10,
 - o Reconstruct/extend Jetway Drive,
 - o Realign Dry Creek and culvert improvements,
 - o Abandon or culvert Dry Creek lateral,
 - Relocate/extend security fence as development dictates.

Intermediate Term

- Taxiway C West Extension
- Tubb Road Removal (portion of road to be abandoned and removed)
- Taxiway C Relocation
- Runway 11/29 west extension and widening
 - o PAPI relocation
 - o Lose Turf Runway 11G-29G
 - o Relocate effluent irrigation
- Runway 11/29 west extension (2430' X 150', 25' shoulders)
- Taxiway C4 new construction

Long Term

- Runway 11/29 east extension (1020', 25' shoulders)
- Taxiway C east extension
- Taxiway C1 east extension

Beyond Planning Horizon

ATC Relocation (reviewed during EA)

Concept: Ultimately extend Runway 3-21 to 5,100 feet. Parallel taxiways are extended to correspond with associated runway projects.

Short Term

- TW F relocation and service road
- Taxiway F1 (connection to 3-21)
- Taxiway G1 (connection to 3-21)

Intermediate Term

Taxiway G ultimate north extension for Hangar Construction

Beyond Planning Horizon

Runway 3/21 ultimate extension

Taxiways

Concept: Consider addition of bypass taxiways and secondary parallel taxiways to serve the existing runway system.

Short Term

- Taxiway B East
- Taxiway B1
- Taxiway B2

Intermediate Term

Taxiway B west extension

Concept: Consider addition of high speed exits for capacity improvement and operational efficiency.

Long Term

- High speed exits 1, 2, 3 and 4
- Taxiway A2 Demolition
- Taxiway A4 Demolition

Concept: Increase separation between Taxiway C and Runway 11-29 to 400 feet.

Intermediate Term

Taxiway C Relocation

Concept: Resolve "hammerhead" taxiway issue at Runway 21 threshold.

Short Term

- Runway 3-21 Extension (to TW C2)
- TW C2 Extension (to RW 3-21)

Runway Approaches

Concept: Pursue improvement to the minimums of Runway 12-30 with designation as a Category II Runway with a Runway Visual Range (RVR) of 1,200 feet (1/4 mile).

Short Term

Runway Visual Range

Concept: As far as practicable, bring Runway 30 to the same precision approach standards as Runway 12 including the addition of ILS and approach lighting.

Long Term

Runway 30 relocate localizer install MALSAR

Concept: Pursue GPS approaches to Runway 11-29 in the short term.

Short Term

- Develop/modify approach and departure procedures to Runway 11-29
 - o Pursue GPS approaches to Runway 11-29
 - o Possible sidestep to Runway 12-30)

Terminal Area

Concept: Provide for automobile parking expansion through construction of parking garages and expansion of parking lots for the general public, employees, and rental car ready and return.

Short Term

- Complete terminal expansion to 12 gates
- Terminal paid parking lot re-stripe
- Rental car wash parking lot expansion

Intermediate Term

Paid parking garages

Long Term

• Paid parking garages

Beyond Planning Horizon

- Employee parking lot south expansion
- Paid parking lot south expansion (south of car condos)

Concept: Expand the terminal building to accommodate 20 gates.

Short Term

- Passenger boarding bridges (B6 & B7)
- Integrated baggage system (outbound)
- Expand terminal building gates A3, A4 and A5 (design)

Intermediate Term

Expand terminal building gates A3, A4 and A5 (construction)

Long Term

- Expand terminal apron east
- Terminal expansion gates A6, A7, A8
- New passenger boarding bridges (Gates A6-A8)
- Expand terminal apron west
- Expand Terminal West
- Passenger boarding bridges (B8-B12)

General Aviation

Concept: Add north side general aviation development and accommodate build out in existing GA area.

Short Term

- Land acquisition
- Wings Way realignment (for west GA area development)
- Road to north GA apron
- Northside Apron, Access Road, Service Road Phase 1
- Northside apron utilities

Intermediate Term

- Northside apron phase 2
 - o Close portions of East Baseline Road and Lagoon Road
 - Culvert/relocate/abandon Spain Ferris Ditch lateral
 - Relocate/extend security fence as development dictates
 - o Address any radar impacts

Long Term

Northside Large Hangar Development

Beyond Planning Horizon

- Sande property subdivision loop
- Sande property subdivision utilities

Airport Support

Concept: Expand the Airport's ARFF Building with the acquisition of additional equipment as required.

Short Term

- ARFF Truck
- ARFF Building Expansion

Concept: Addition of new maintenance and snow removal equipment, as required.

Short Term

- Snow Removal Equipment
- Construct Snow Removal Equipment Building

Intermediate Term

Snow Removal Equipment

Concept: Plan for additional fuel storage facilities.

Short Term

- West Fuel Farm
- East Fuel Farm Expansion

Pavement Maintenance

Concept: Maintain all airfield pavements on a regular cycle.

Short Term

- Terminal Apron Rehabilitation
- East GA Apron Rehabilitation Overlay
- West GA Apron Rehabilitation
- Tie-Down Rehabilitation and Expansion

Long Term

- Taxiway A Rehabilitation
- Runway 12/30 Rehabilitation

Beyond Planning Horizon

- Apron seal coats
- Taxilane seal coats
- Taxiway C1 Overlay
- Taxiway C3 Overlay









