Duluth Airport Master Plan

Project Update – Taxiway A

September 21, 2021





Existing Taxiway A

- Full-length parallel taxiway
- Partial taxiway shoulders
- Mostly bituminous pavement

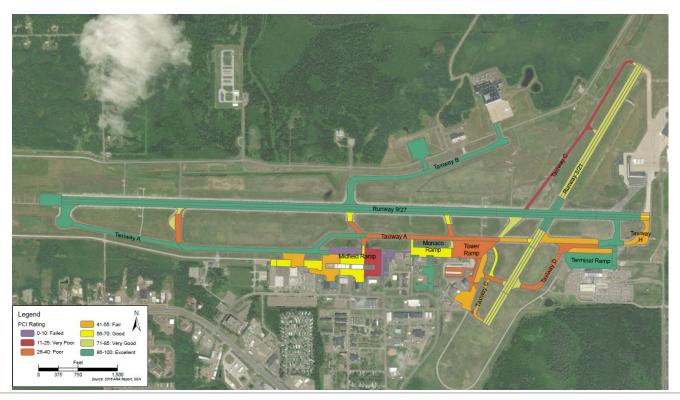






Pavement Condition (PCI)

- Mill and Overlay project on the west half of Taxiway A (2020)
- Condition below the pavement is not reflected in the PCI

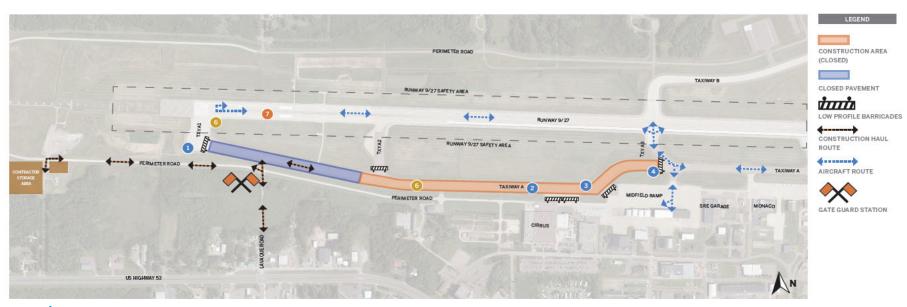






Taxiway A West – 2020 Mill and Overlay

- Intended to be a short-term fix
- Allowed for further planning of Taxiway A to take place in Master Plan

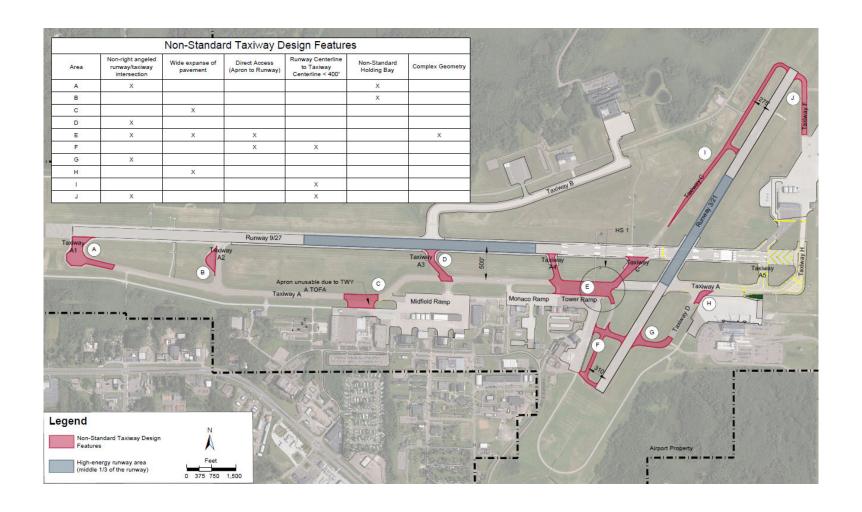






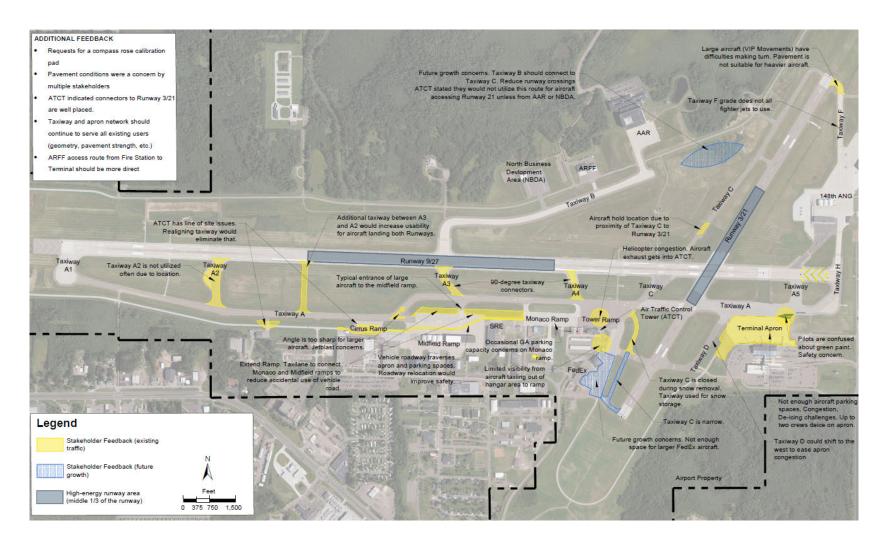


Non-standard Design Features





Stakeholder Feedback









Taxiway A – Preliminary Alternatives



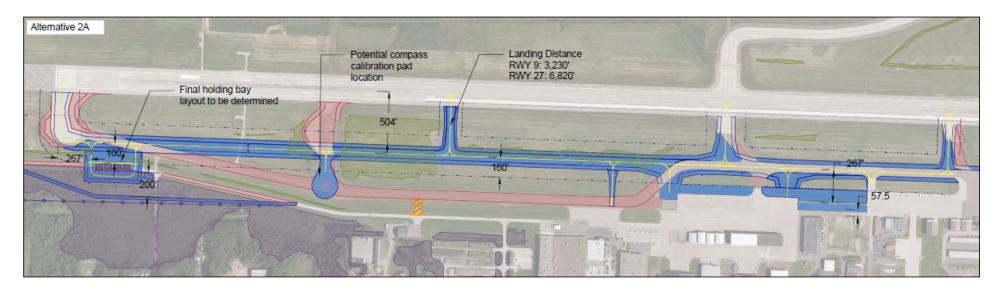








Taxiway A – Alternative 2A (Straight Parallel) Second Round of Alternatives

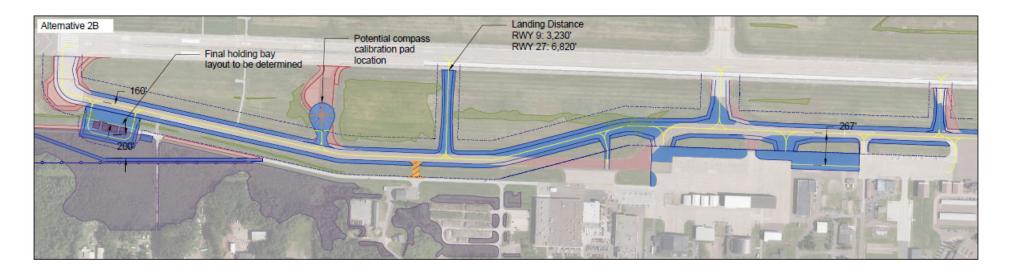








Taxiway A – Alternative 2B (Modified Existing) Second Round of Alternatives









Taxiway TAC Meeting 1 Feedback

Preferred Taxiway A Alignment









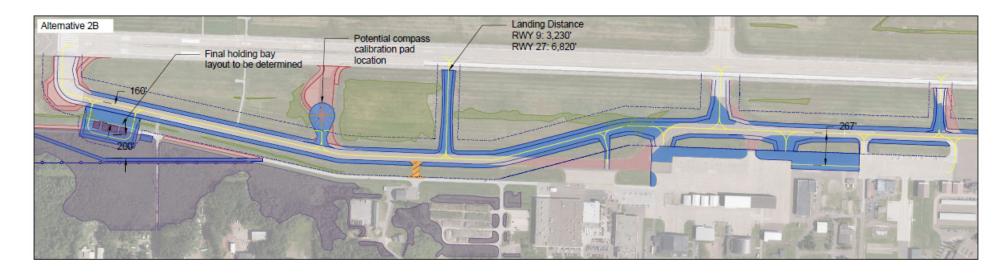
I'm not sure et or would like to further evaluate building area alternatives before deciding







Taxiway A – Preferred Alternative (Alt 2B)

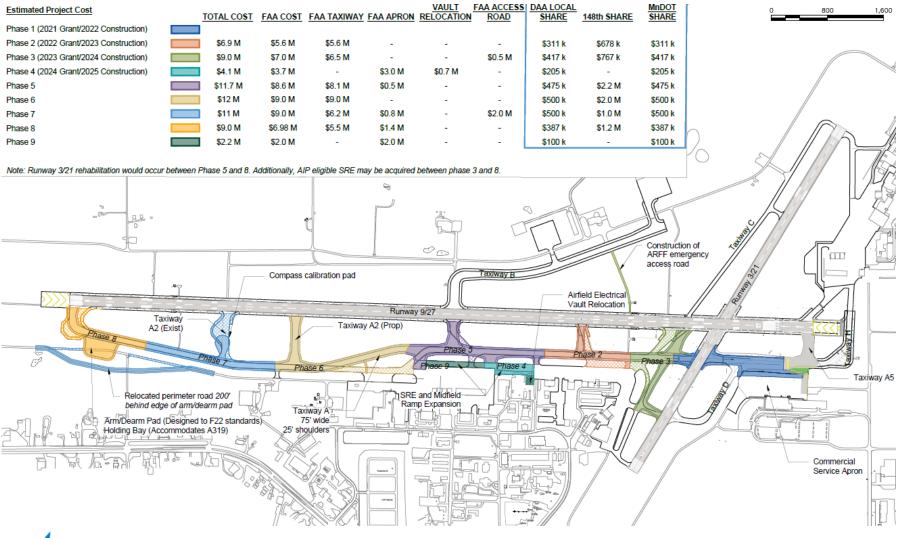








Taxiway A – Multi-Year Phasing Project



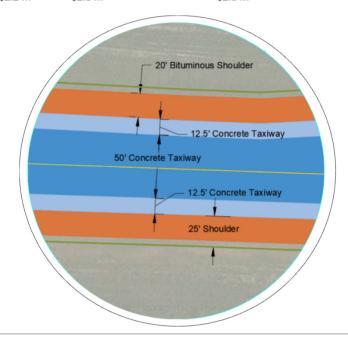






Taxiway A Cost Eligibility

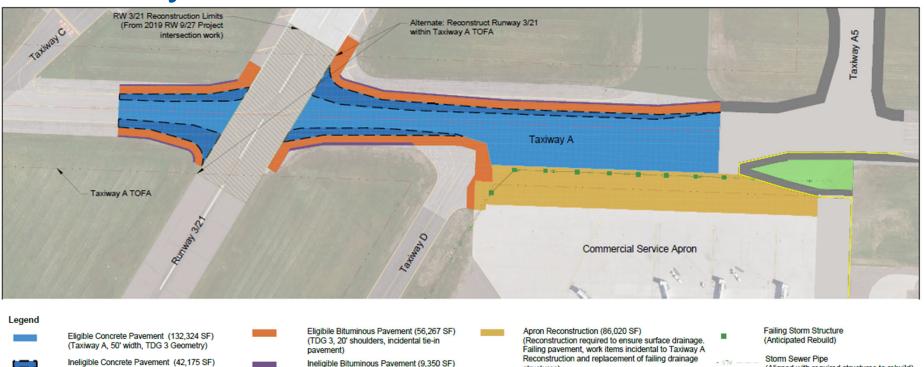
Estimated Project Cost	TOTAL COS	T FAA COST	FAA TAXIWAY	FAA APRON	VAULT RELOCATION	FAA ACCESS ROAD	DAA LOCAL SHARE	148th SHARE	MnDOT SHARE	ſ
Phase 1 (2021 Grant/2022 Construction)										ı
Phase 2 (2022 Grant/2023 Construction)	\$6.9 M	\$5.6 M	\$5.6 M	-	-	-	\$311 k	\$678 k	\$311 k	ı
Phase 3 (2023 Grant/2024 Construction)	\$9.0 M	\$7.0 M	\$6.5 M	-	-	\$0.5 M	\$417 k	\$767 k	\$417 k	ı
Phase 4 (2024 Grant/2025 Construction)	\$4.1 M	\$3.7 M	-	\$3.0 M	\$0.7 M	-	\$205 k	-	\$205 k	ı
Phase 5	\$11.7 M	\$8.6 M	\$8.1 M	\$0.5 M	-	-	\$475 k	\$2.2 M	\$475 k	ı
Phase 6	\$12 M	\$9.0 M	\$9.0 M	-	-	-	\$500 k	\$2.0 M	\$500 k	
Phase 7	\$11 M	\$9.0 M	\$6.2 M	\$0.8 M	-	\$2.0 M	\$500 k	\$1.0 M	\$500 k	
Phase 8	\$9.0 M	\$6.98 M	\$5.5 M	\$1.4 M	-	-	\$387 k	\$1.2 M	\$387 k	Į,
Phase 9	\$2.2 M	\$2.0 M	_	\$2.0 M	-	-	\$100 k	-	\$100 k	ı







Taxiway A Reconstruction – Phase 1



Reconstruction of Taxiway A (1,800 feet x 75 feet)

(additional 5' of shoulder width)

- Reconstruction of taxiway shoulders (25 feet wide)
- Drainage structure and draintile improvements
- Taxiway lighting, signage and lighting control upgrades



(TDG 5 Geometry, additional 25' width)



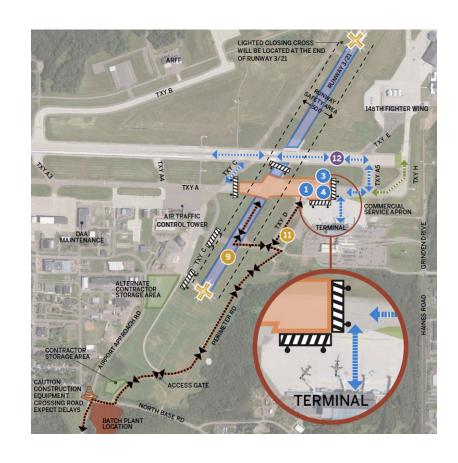
Alternate: Runway 3/21 Reconstruction (69,032 SF) (Reconstruct to limits of Taxiway A TOFA)



(Aligned with required structures to rebuild)

Phase 1 (1A) – 2022 Construction (Funded in 2021)

- Estimated Duration: 65
 Days
- Airfield Closures
 - Runway 3-21
 - Portions of Taxiway A and Terminal Ramp
 - Taxiway D
- Instrument Approach Procedures for 9/27 will be raised to 1 mile



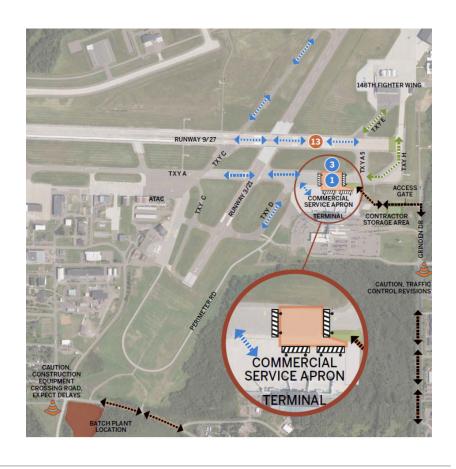






Phase 1 (1B) – 2022 Construction (Funded in 2021)

- Estimated Duration: 40
 Days
- Airfield Closures
 - Portions of Taxiway A and Terminal Ramp
- Instrument Approach
 Procedures for 9/27
 will be raised to 1 mile

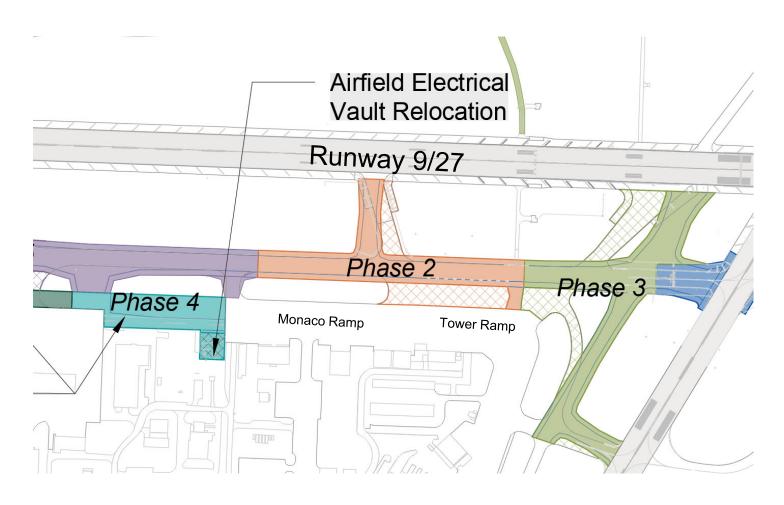








Phase 2 – 2022 Grant/2023 Construction







Phase 2 Schedule

- October through December 2021 preliminary engineering
- January 2022 through April 2022 final design
- May 2022 bidding
- June 2022 grant application
- August 2022 grant award
- May through August 2023 construction
- Stakeholder engagement continuous through design and construction



Master Plan Next Steps

- Upcoming Stakeholder Meetings
 - Master Plan Advisory Committee October
 - Taxiway and Building Area TAC October

 Meeting materials and summaries continue to be posted to the project website:

https://duluthairport.com/master-plan/





Major Milestones to Master Plan Completion

- Report preparation
 - DAA staff review of draft report In progress
 - SEH address comments Oct. 1 15
- Presentations and approvals
 - DAA Board presentation Oct. 19 (Topic: Financial Plan)
 - MPAC Meeting tentative Oct. 20 (Final presentation)
 - DAA Board retreat (Dec. 2) Detailed master plan presentation and discussion
 - DAA Board approval Dec. 2021
 - Public Open House/Outreach events Early 2022





Part 150 Noise Study Project Update

FAA preliminary review of draft study – Complete 9/20

Next Steps

- Public Open House and Hearing, Nov. 2
- Public Advisory Committee Nov. 3
- Final DAA Board Adoption Nov. 16
- Submit final documents to FAA Week of Nov. 22
 - FAA has up to 180 days to complete review

