Hector International Airport

Fargo



Mead & lunt

TERMINAL AREA STUDY
PUBLIC INVOLVEMENT MEETING
SEPTEMBER 27, 2022

Mead &Hunt

Agenda

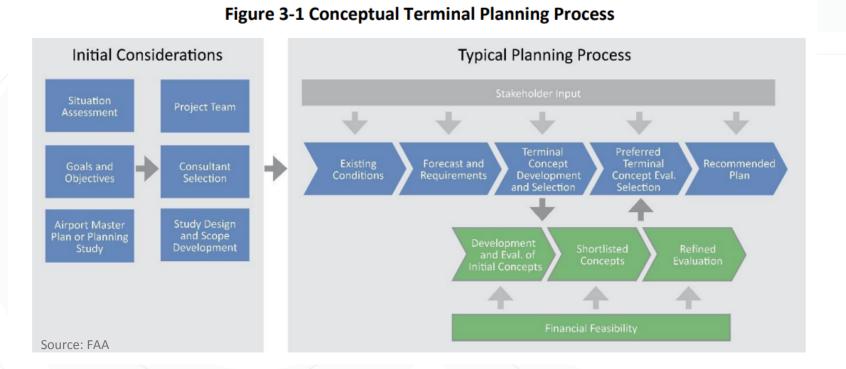
- → What is a Terminal Planning Study
- → Schedule
- Existing Conditions
- Passenger Forecasts
 - Peak Hour Forecasts
- → Facility Requirements
- Preferred Concept of Development
- → Next Steps



What is a Terminal Planning Study?

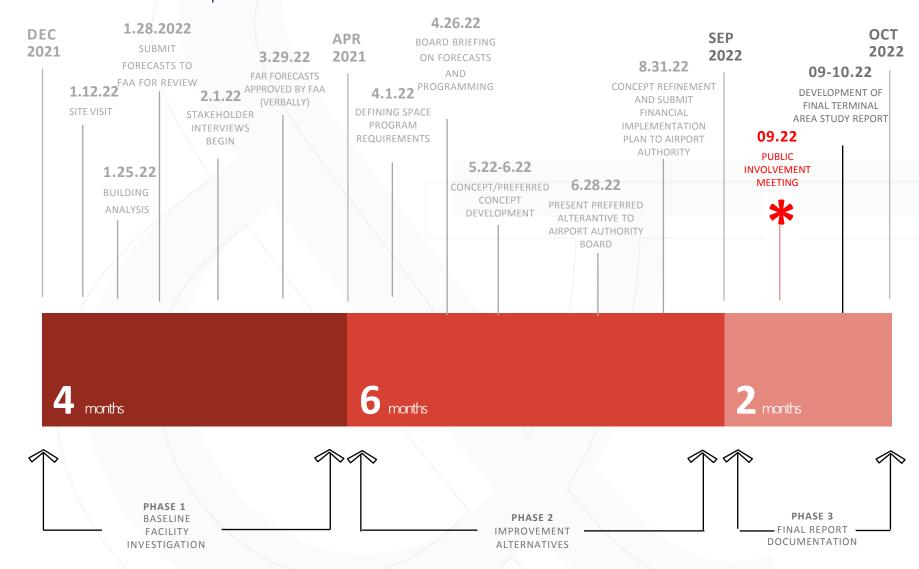
A Terminal Planning Study identifies a sustainable and financially feasible alternative for future terminal development that can accommodate existing and future demand.







SCHEDULE | FAR TERMINAL AREA STUDY

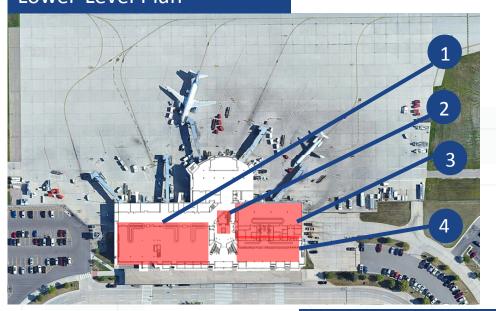


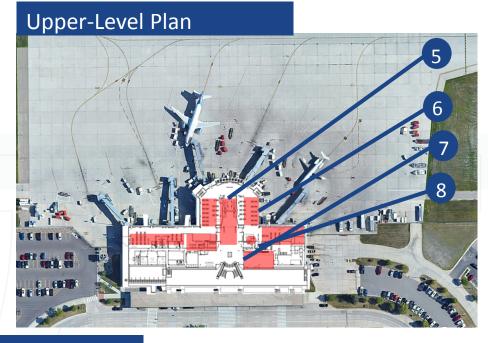




Existing Conditions

Lower-Level Plan





Planning Considerations

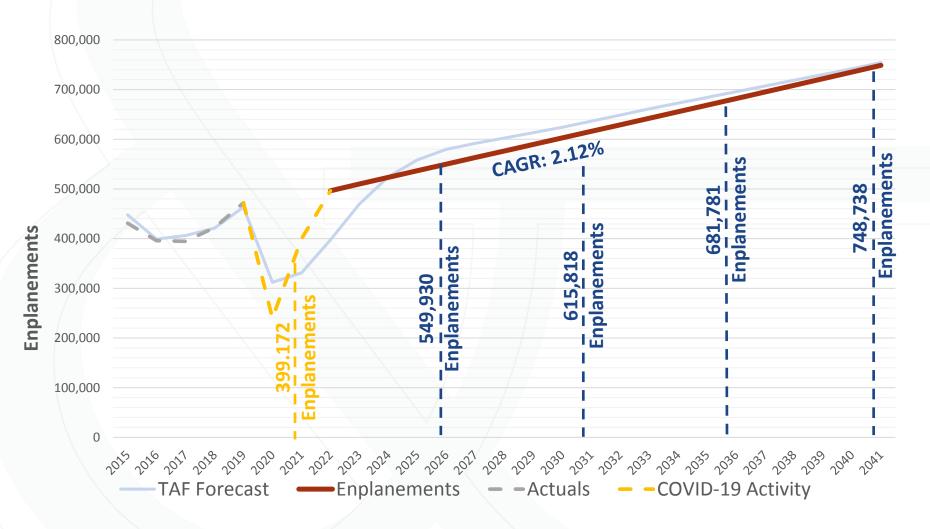
- 1 Baggage claim and rental car counter circulation undersized
- 2 Pre-security restroom locations are not visible to passengers.
- Baggage screening and outbound baggage requires expansion to meet demand
- Ticket queuing area and ticket counter space stressed during peak times

- Security screening location and size present safety and operational inefficiencies
- 6 Departure lounges undersized
- 7 Concession locations and size impact airport revenue
- 8 Post-security restrooms size and location require evaluation due to over crowdedness.





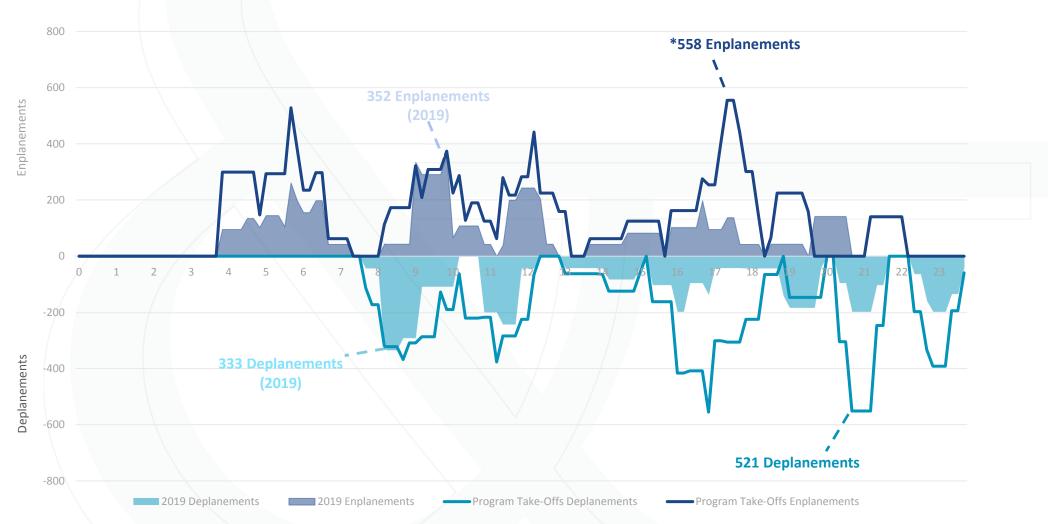
Enplanement Forecasts







Peak Hour Forecasts



^{*} The time of day which peaking occurs at FAR vary throughout the year. The time of day of the peak hour in the spring may vary from the time of day of the peak hour in the summer, however, the number of enplanements/deplanements should be around the same.





The Terminal Facility Program Process...







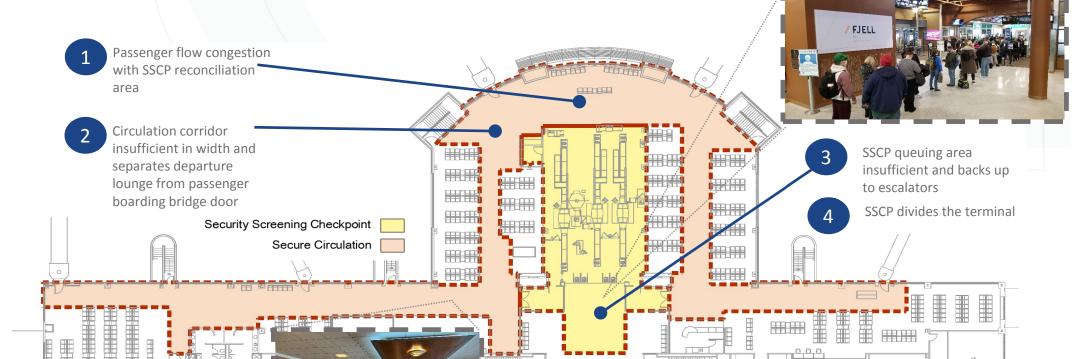
FAR Project Need

FAR Demand Comparison				Program Take-Off	
			0	Require	
	Existing	Recommended	Capacity Threshold		Capacity Threshold
General			mresnoid		mresnoid
Annual Enplanements	472,157			748,738	
Peak Hour Enplanements	352			558	
Aircraft Gates/PBB (# of Gates)	5	8	8	8+1 RON	8
Public Space					
Circulation (public seating, ticketing, concourse, bag claim, general circ.) (SF)	26,138	27,679	8	34,364	8
Ticket Lobby Queue (SF)	2,469	3,108	8	5,740	8
Passenger Security Screening (SF)	4,163	6,200	⊗	8,000	8
Departure Lounges (SF)	8,564	28,207	8	28,207	8
Restrooms (pre/post security) (SF)	2,876	3,150	€	4,200	8
Other (Service Animal Relief Area, Mother Nursing Station, Janitor Closet) (SF)	340	515	8	760	8
Airline Space					
Ticketing (counter, ATO) (SF)	4,978	5,302	8	6,050	8
Outbound Baggage Screening (SF)	1,088	2,175	⊗	3,225	8
Outbound Baggage Makeup (SF)	4,251	11,880	⊗	17,820	8
Inbound Baggage Makeup (SF)	2,398	3,700	⊗	5,600	⊗
Baggage Claim Devices (SF)	7,521	4,600	✓	6,900	✓
Baggage Service Offices (SF)	0	400	€3	560	€3
Concessions					
Pre-Security Food/Retail (SF)	5,318	1,075	<u>~</u>	2,350	✓
Post-Security Food/Retail (SF)	2,305	3,225	8	7,050	⊗
Support and Storage (SF)	2,099	1,005	✓	1,300	✓
Rental Car Offices and Queuing (SF)	1,395	2,300	8	3,182	⊗
Non-Public Space					
Airport Administration (SF)	3,288	6,514	8	6,970	⊗
TSA Offices (SF)	2,284	2,801	⊗	2,801	⊗
Circulation (SF)	2,170	2,147	8	2,743	8
Airport Operations (SF)	3,447	4,809	8	6,348	8
Building Systems (SF)	28,703	31,765	8	48,040	8
TOTAL GROSS (SF)	115,795	152,558		202,211	





Constraints in the Concourse

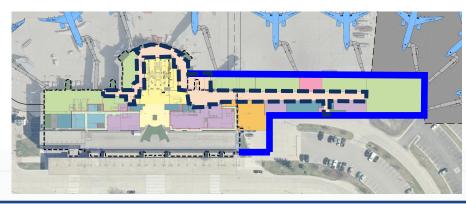




Alternatives Evaluated

1

- Security Screening Checkpoint (SSCP) remains
- Existing pre-secure concessions become postsecure
- Circulation corridor moves behind all existing gates
- Gate 1 and 2 relocates to new expansion



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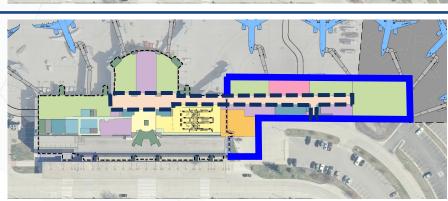
- SSCP relocates to existing pre-secure concessions space
- Existing SSCP space becomes concessions and departure lounge space
- Circulation corridor moves behind all existing gates
- Proposed expansion remains in alignment with north face of existing terminal
- Gate 1 relocates to new expansion



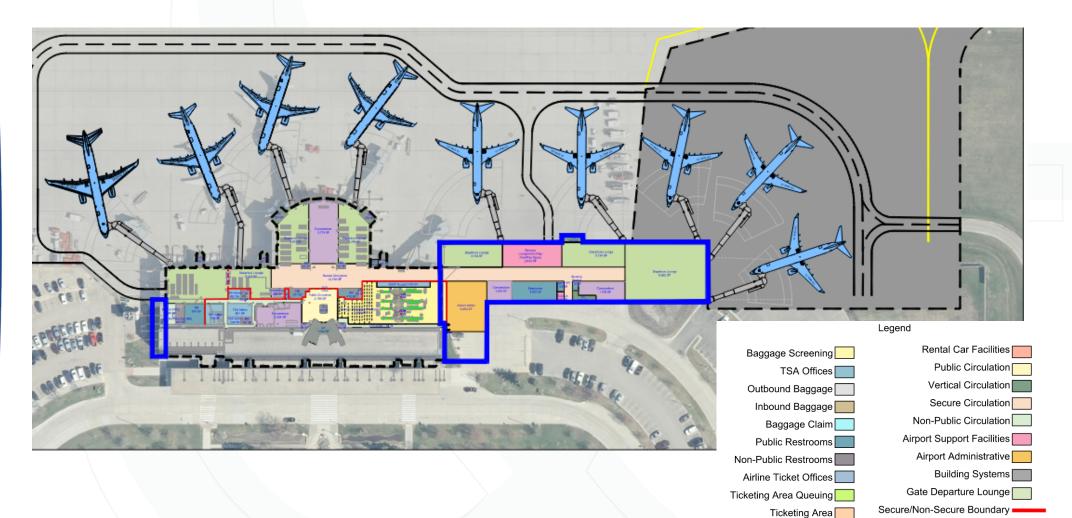
3

- SSCP relocates to existing pre-secure concessions space
- Existing SSCP space becomes concessions and departure lounge space
- Circulation corridor moves behind all existing gates and in a straight alignment throughout existing and new concourse
- Gate 1 relocates to new expansion





Preferred Alternative – Upper-Level Floorplan



Proposed Terminal Expansion

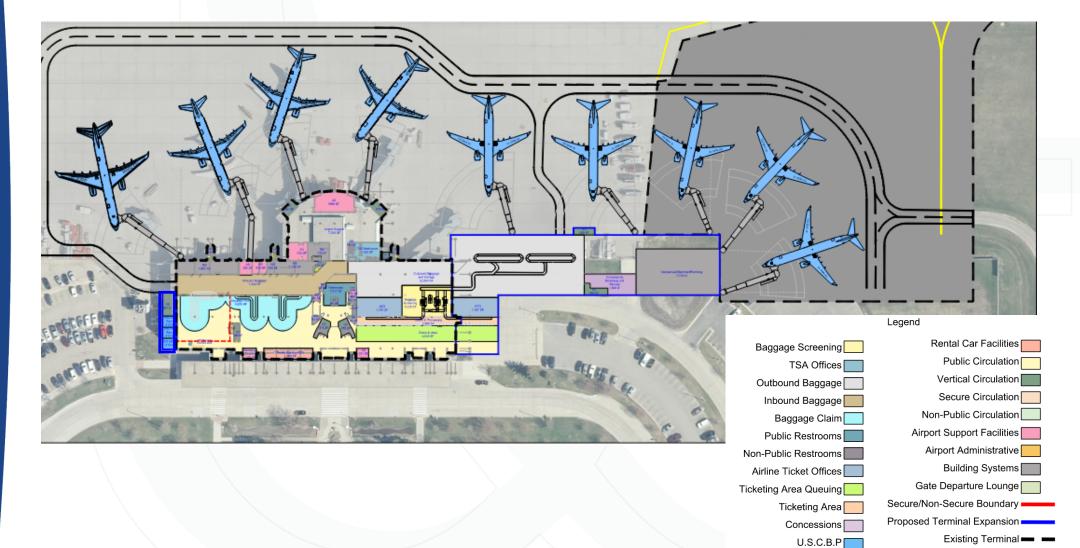
Existing Terminal — —

Concessions

U.S.C.B.P



Preferred Alternative – Lower-Level Floorplan





Preferred Alternative – Alternative 3





Preferred Alternative – Alternative 3





Next Steps

- → Coordination with FAA
- → Finalize Terminal Area Study Report
- Proceed with selecting an Architect/Engineer for Schematic Design





Back-Up Slides



Alternatives Evaluated

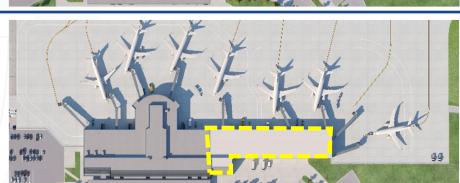
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