

Master Common Use Gate Space Plan & Terminal Capacity Parameters: Winter 2023/2024

April 14, 2023







#### TSUPS SUBMISSION REQUIREMENTS

- The City is bound by the Terminal Space Use Protocols (TSUPs) to submit a Master Common Use Gate Space Plan and Terminal Capacity Parameters to the Scheduling Manager on March 30<sup>th</sup>, 2023, 6 weeks prior to the IATA initial submission deadline.
- The gate space plan should include all the relevant information needed for the Scheduling Manager to process assignments to Common Use Gate Space and Hardstand Space.
- The terminal capacity parameters submission should include all the useful information to process assignments of the following:
  - Check-in and bag drop positions, including self-service kiosks.
  - Security screening checkpoints.
  - Baggage handling and makeup.
  - Federal inspection station and baggage claim.
- The submission should include terminal capacity parameters related to these processes, at a level of detail reasonably deemed appropriate by the city.

NOTES: TSUPs – Terminal Space Use Protocols (effective April 15, 2019) IATA – International Air Transport Association







#### METHODOLOGY AND ASSUMPTIONS

- The Winter 2023/2024 terminal capacity parameters are based upon a methodology consistent with prior capacity declarations (including the Winter 2022/2023 capacity declaration). These parameters are based upon the following:
  - An analytical assessment of the processes using previously sampled data and industry metrics.
  - Periodic on-site observations to understand the following:
    - Operational specificities
    - Gather stakeholder input
    - Changes in airport operations
- The capacities resulting from this analysis are expressed for the entire Winter 2023/2024. These include variations in capacity due to construction activities, as well as infrastructure and operational improvements.
- The analysis considers the impact of domestic airline changes (Delta Air Lines move to Terminal 5, Frontier Airlines route restructuring, and Southwest Airlines growth) at Terminal 5.
- Enhanced safety and security measures (such as social distancing or health screening) are not assumed to affect Winter 2023/2024 capacity.





# COMMON USE PROCESSING CAPACITY MAIN TERMINALS

Process	Unit	Common Use units used as a basis for capacity declaration		
		Winter 2023/2024		
Terminal 1				
No Common Use Facilities	-	-		
Terminal 2				
No Common Use Facilities	-	-		
Terminal 3				
Check-in	Positions	81/		
Baggage Makeup	Devices	1 (joint use)		
Non-FIS Baggage Reclaim <sup>2/</sup>	Devices	1		
Bus Gates	Gates	1 (G22)		

NOTES: 1/ Common Use check-in allocation subject to use of Terminal 3 Joint Use baggage makeup. The Terminal 3 Joint Use baggage makeup carousel provides 14 makeup positions currently used by Spirit Airlines and Essential Air Services (Cape Air, Key Lime Air/Denver Air Connection, and Southern Airways Express).

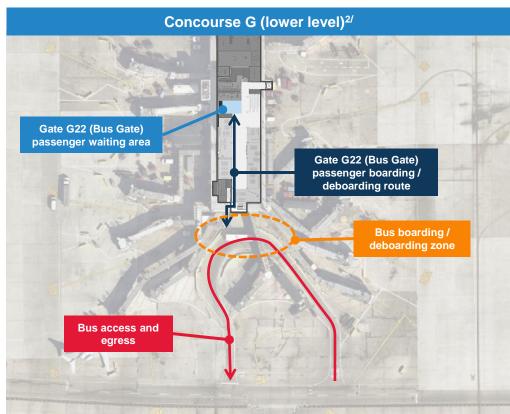
2/ Vacant in Summer 2021. Spirit Airlines and Essential Air Services use a separate, Joint Use, baggage reclaim device.

SOURCE: Ricondo & Associates, Inc., March 2023.





## MAIN TERMINALS - G22 BUS GATE / TERMINAL TRANSFER BUS STOP



- A single door is provided for Gate G22 and Terminal Transfer Bus<sup>1/</sup> operations.
- The Gate G22 waiting area is sized to primarily handle aircraft with 50 seats or less.

Image not to scale : North

NOTE: 1/ Terminal Transfer Bus provided for passengers connecting between Main Terminals and Terminal 5

2/ Ramp and interior layout are indicative and subject to change.

SOURCES: Nearmap, September 28, 2022; Ricondo & Associates, Inc., April 2023.





# COMMON USE PROCESSING UNITS TERMINAL 5

Process	Unit	Common Use units as a basis for capacity declaration				
		Winter 2022/2023 Declared (prior equivalent season)	Winter 2023/2024	Terminal 5 Extension Complete		
International Arrivals						
Federal Inspection Station	Primary positions	35	10/29 – 11/30: 50 12/1 – 3/30: 56	56		
FIS Baggage Reclaim	Devices	91/	91/	91/		
Transfers Recheck	Common-use positions	16	16	16		
Domestic and Precleared Arrivals						
Non-FIS Baggage Reclaim	Devices	22/	<b>2</b> <sup>2/</sup>	<b>2</b> <sup>2/</sup>		
Departures						
Check-in	Positions	115-123	132 <sup>3/</sup>	136 <sup>3/</sup>		
Security Screening <sup>4/</sup>	Lanes	13	13	13		
Baggage Departure Processing	Originating in-line EDS machines	35/	5 <sup>5/</sup>	5 <sup>5/</sup>		
Baggage Makeup	Makeup positions	120-138	10/29 - 12/14: 144 12/15 - 2/29: 168 3/1 - 3/30: 180	180		
Bus Gates	Gates	Not declared	1 (M13)	1 (M13)		

NOTES: 1/ Includes 6 devices with 215 linear foot presentation length and 3 devices with 195 linear foot presentation length.

<sup>5/</sup> Baggage departures processing assumed to be limited by CBIS capacity. Includes EDS machines provided in-line for the departures process (excludes any machines provided for transfers recheck). 1 EDS machine used as redundancy. SOURCES: Chicago Department of Aviation, Executive Working Group – Terminal 5 Subcommittee, February 8, 2023; Vanderlande, Acceleration Plan for West Phase, March 2023; Ricondo & Associates, Inc., March 2023.





Processing unit variation between

Winter 2022/2023 and Winter 2023/2024

<sup>2/</sup> Based upon 1 device with 175 linear foot presentation length and 1 device with 150 linear foot presentation length (excludes 1 Preferential Use Delta Air Lines device).

<sup>3/</sup> Common-use desks only. Does not include Delta Air Lines Preferential Use space.

<sup>4/</sup> Security screening provided for TSA Precheck as well as standard processes.

<sup>4/</sup> Security screening provided for TSA Fredheck as well as standard processes.

## TERMINAL 5 – KNOWN WINTER 2023/2024 CONSTRUCTION ACTIVITIES FEDERAL INSPECTION STATION PRIMARY INSPECTION CAPACITY

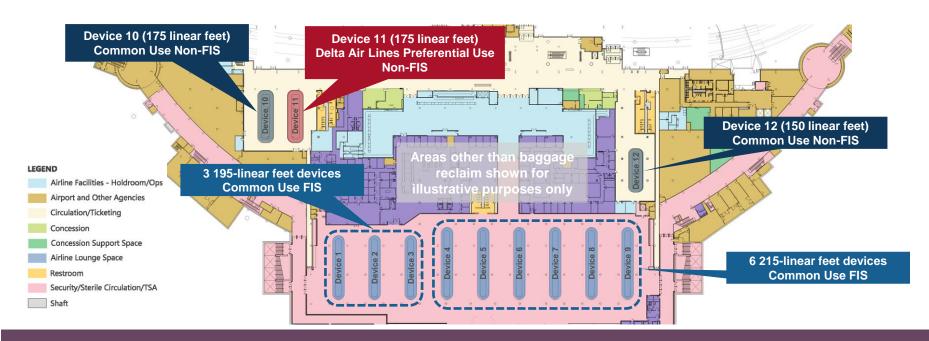


NOTES: 1/ Capacity anticipated to be available prior to and after Winter 2023/2024 is shown for illustrative purposes only and should not be considered to be part of this capacity declaration. 2/ Exhibit only shows installed positions useable for regular processing of passengers. Actual processing capacity is subject to U.S. Customs and Border Protection staffing. Phasing for capacity declaration purposes only. SOURCES: Austin Power Partners, Revised Phasing Dates, January 12, 2023; Ricondo & Associates, February 2023.





## TERMINAL 5 – KNOWN WINTER 2023/2024 CONSTRUCTION ACTIVITIES BAGGAGE RECLAIM



- The declared capacity assumes two non-FIS baggage reclaim devices (one 150 linear foot device and one 175 linear foot device)
- All FIS baggage reclaim projects are anticipated to be complete, with 9 common use devices available

SOURCES: Chicago Department of Aviation, Executive Working Group - Terminal 5 Subcommittee, February 8, 2023; Ricondo & Associates, Inc., March 2023.





## TERMINAL 5 – KNOWN WINTER 2023/2024 CONSTRUCTION ACTIVITIES COMMON USE CHECK-IN COUNTERS



Winter 2023/2024 Declared capacity



- All check-in baggage handling system improvements are anticipated to be completed by Winter 2023/2024
- No portering is anticipated to be required during the Winter 2023/2024 season

SOURCES: Chicago Department of Aviation, Executive Working Group - Terminal 5 Subcommittee, February 8, 2023; Vanderlande, Acceleration Plan for West Phase, March 2023; Ricondo & Associates, Inc., March 2023.





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#### TERMINAL 5 – KNOWN WINTER 2023/2024 CONSTRUCTION ACTIVITIES

October 29, 2023 -**December 14, 2023** 

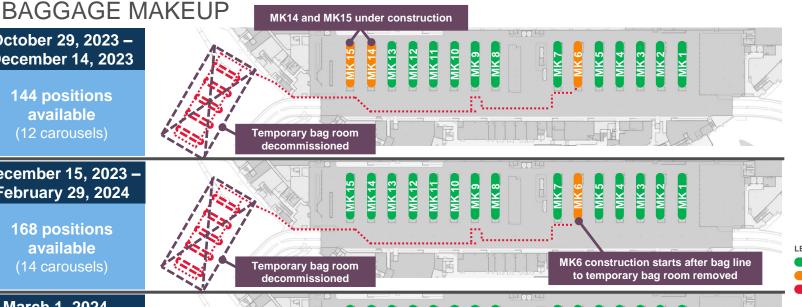
> 144 positions available

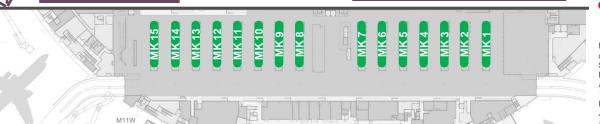
**December 15, 2023 –** February 29, 2024

> 168 positions available (14 carousels)

March 1, 2024 -March 30, 2024

180 positions available





LEGEND - MAKEUP DEVICES

Operational

Remaining to be built

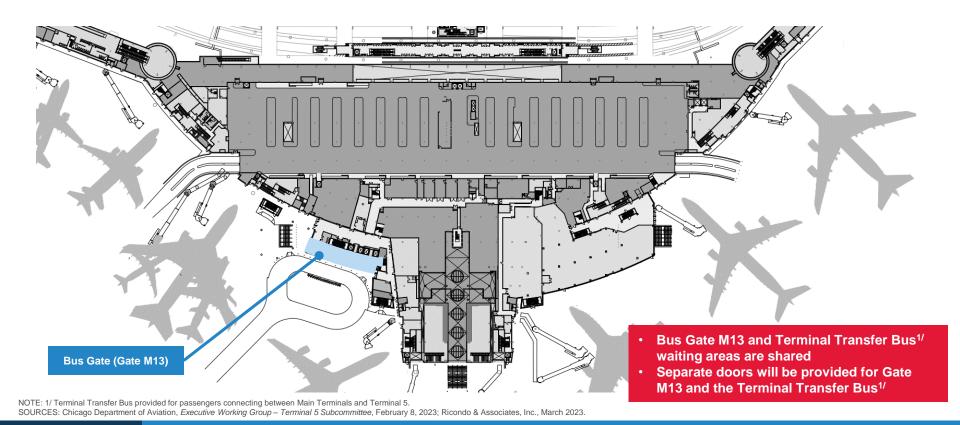
Decommissioned / being demolished

NOTE: Phasing for capacity declaration purposes only SOURCES: Chicago Department of Aviation, Executive Working Group -Terminal 5 Subcommittee. February 8, 2023; Vanderlande, Acceleration Plan for West Phase, March 2023; Ricondo & Associates, Inc., March 2023



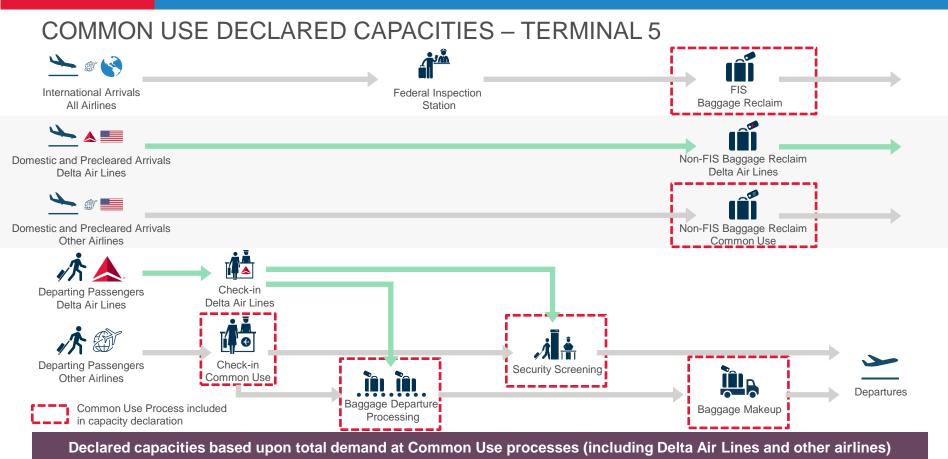


## TERMINAL 5 - M13 BUS GATE / TERMINAL TRANSFER BUS STOP









SOURCE: Ricondo & Associates, Inc., March 2023.



## MAIN TERMINALS – WINTER 2023/2024 CAPACITY PARAMETERS OCTOBER 29, 2023 - MARCH 30, 2024

Passenger Flow	Process	Time of Day	Available Common Use Units		Declared Common Use Capacity	
			Unit	Capacity	Unit	Capacity
Terminal 1						
No Common Use Facilities	-	-	-	-	-	-
Terminal 2						
No Common Use Facilities	-	-	-	-	-	-
Terminal 3						
Domestic and Precleared Arrivals	Non-FIS Baggage Reclaim	All day	Devices	1 <sup>2/</sup>	Domestic seats per hour <sup>3/</sup>	600
Departures	Check-in <sup>4/</sup>	All day	Positions	8	Seats per four hours	1,100
	Security Screening	All day	Lanes	205/	Seats per four hours	18,400
	Baggage Makeup	All day	Devices	1 (joint use) <sup>6/</sup>	Seats per four hours	1,900 (joint use) <sup>6/</sup>

NOTES: 1/ All Terminal 3 carriers are anticipated to use security screening capacity outlined in the table. American Airlines and Spirit Airlines are anticipated to operate Preferential Use or Joint Use check-in and non-FIS baggage reclaim and do not use Common Use check-in or non-FIS baggage reclaim capacity.

<sup>6/</sup> Joint Use baggage makeup currently used by Spirit Airlines and Essential Air Services (as of August 2022: Cape Air and Key Lime Air). SOURCE: Ricondo & Associates, Inc., March 2023.





<sup>2/</sup> Device 1 (140 linear feet of presentation length - vacant in Winter 2022/2023) is declared as common use. Spirit Airlines and Essential Air Services use a separate, Joint Use, baggage reclaim device.

<sup>3/</sup> Non-FIS baggage reclaim capacity is equivalent to 200 precleared international seats per hour. Each precleared international seat is equivalent to 2.6 domestic seats due to higher average number of passengers with baggage and longer time at reclaim.

<sup>4/</sup> Common Use check-in allocation subject to use of Terminal 3 Joint Use baggage makeup.

<sup>5/</sup> Includes 4 Automated Screening Lanes (ASL) and 16 traditional lanes.

# TERMINAL 5 – WINTER 2023/2024 CAPACITY PARAMETERS OCTOBER 29, 2023 - MARCH 30, 2024

Passenger Flow	Process	Time of Day	Available Common Use Units		Declared Common Use Capacity <sup>1/</sup>	
			Unit	Capacity	Unit	Capacity
International Arrivals	Federal Inspection Station <sup>2/</sup>	All day	Primary positions	10/29 – 11/30: 50 12/1 – 3/30: 56	Seats per hour	10/29 - 11/30: 3,800 12/1 - 3/30: 4,200
					Seats per 5-hours	10/29 - 11/30: 12,800 12/1 - 3/30: 14,200
	FIS Baggage Reclaim	All day	Devices	93/	Seats per hour	2,900
Domestic and Precleared Arrivals	Non-FIS Baggage Reclaim	All day	Devices	2 <sup>4/</sup>	Domestic seats per hour <sup>4/</sup>	1,500
Departures	Check-in	All day	Positions	132	Seats per 4-hours	6,600
	Security Screening	Peak (12:30-20:30)	Lanes	13	Seats per 4-hours	8,400
		Off-peak (20:30-12:30)	Lanes	11	Seats per 4-hours	7,100
	Baggage Departures Processing	All day	In-line EDS machines	5 <sup>5/</sup>	Seats per 4-hours	10,300
	Baggage Makeup	All day	Makeup positions	10/29 - 12/14: 144 12/15 - 2/29: 168 3/1 - 3/30: 180	Seats per 4-hours	10/29 – 12/14: 6,700 12/15 – 2/29: 7,900 3/1 – 3/30: 8,400

NOTES: 1/ All Terminal 5 carriers are anticipated to use Federal Inspection Station, security screening, non-FIS and FIS baggage reclaim, baggage departures processing and baggage makeup capacity outlined in the table. Delta Air Lines is anticipated to operate Preferential Use check-in and does not use Common Use check-in capacity.

<sup>5/</sup> Baggage departures processing assumed to be limited by CBIS capacity. Includes EDS machines provided in-line for the departures process (excludes any machines provided for transfers recheck). 1 EDS machine used as redundancy. SOURCE: Ricondo & Associates. Inc., March 2023.





<sup>2/</sup> Capacity is subject to U.S. Customs and Border Protection staffing.

<sup>3/</sup> FIS baggage reclaim includes 6 devices with 215 linear foot presentation length and 3 devices with 195 linear foot presentation length.

<sup>4/</sup> Non-FIS baggage reclaim capacity is equivalent to 600 precleared international seats per hour. Each precleared international seat is equivalent to 2.6 domestic seats due to higher average number of passengers with baggage and longer time at reclaim. Capacity based upon 1 device with 175 linear foot presentation length and 1 device with 150 linear foot presentation length.



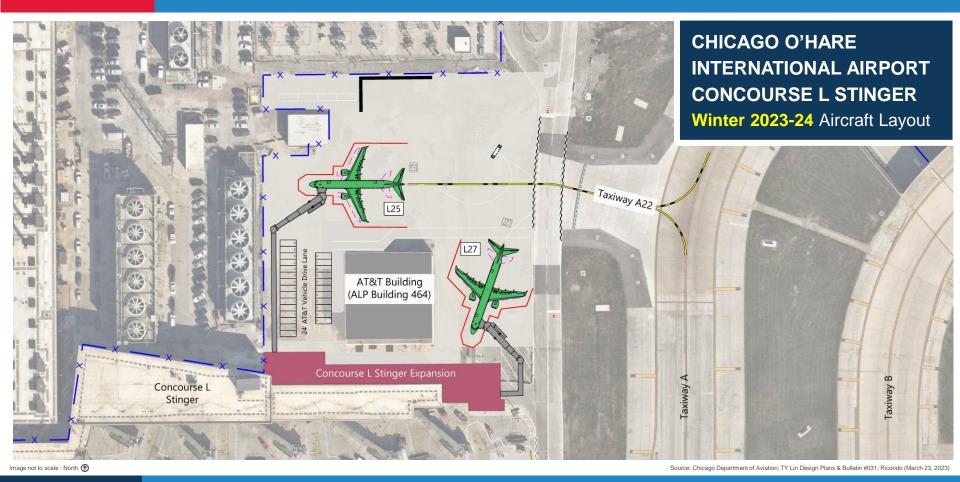












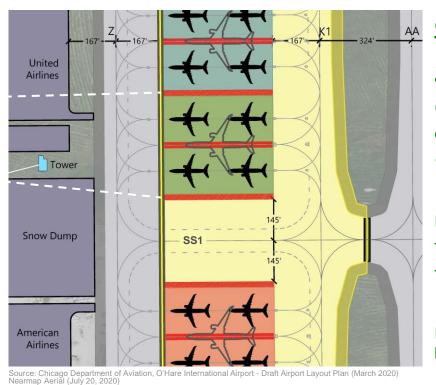
**■** ★ CDA

O'HARE
INTERNATIONAL AIRPORT — \*

# Area used Area used

#### O'HARE CENTRAL DE-ICING PAD – HARDSTAND PARKING

Used primarily for Common Use Deicing from October 1 – May 15



## **GREEN AREA**

4 narrow-body

(first in, first out)

1 wide-body

Field access via: Twy U from North Twy K from South

Ramp Tower Control by United & American

Source: Nearmap Aerial (September 28, 2022)





Image not to scale: North 1



#### CHICAGO DEPARTMENT OF AVIATION

JAMIE L. RHEE, COMMISSIONER



flychicago.com