

O'Hare Construction Update and Winter 2023/2024 Capacity Briefing

April 26, 2023

FINAL





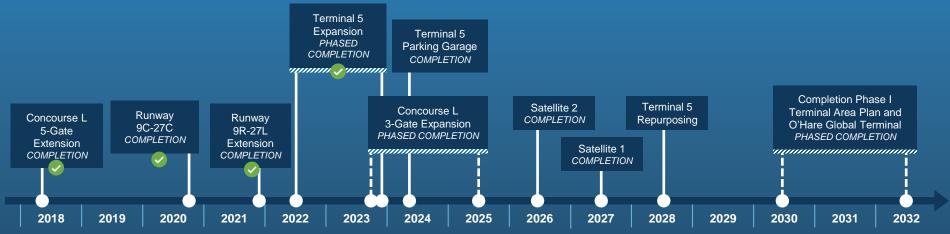
AGENDA

- Capital Program Overview
- Terminal 5 Development Overview and Construction Update
- Winter 2023/2024 Capacity and Gate Availability
- Winter 2023/2024 Initial Schedule Submission





O'HARE 21 CONTINUES TO PROGRESS AND TRANSFORM O'HARE'S TERMINALS AND AIRFIELD



*Preliminary subject to change

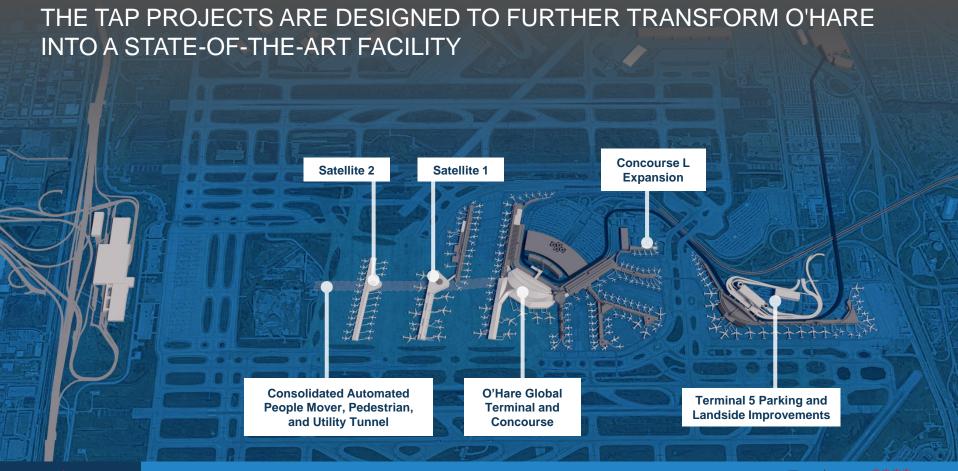
All new gates in Terminal 5 expansion opened as of March 2023

Terminal 5 expansion anticipated to be complete in 2023

Terminal Area Plan in schematic design, environmental approval received in November 2022









RD Mills Significant Airfield Construction and Airfield Changes over the next 24 months









FOUR CONSTRUCTION PROJECTS IN 2023 WITH AIRFIELD OPERATIONAL IMPACTS

TERMINAL AREA PLAN (TAP)

- Starts March 13 with closure of Twy R followed by T then J for initial airfield pavement work
- 2023 will step through the temporarily bump out of Twys A/B between Satellites S1/S2
- Buildout of temporary Lower Concourse C Extension (LCE) to offset gate closures for Satellite S1
- Advanced Utilities work to install new east-west water main between Twys L & N

TWY A/B (EAST-WEST)

- Continuation of extending Twys K/L into A/B resumes April 1 with closure of Twy B between A9-A12
- Twy L connection into B complete in mid-December 2023

RWY 9R EXTENSION (O'HARE MODERNIZATION PROGRAM (OMP))

- Final step of completing the installation of the Approach Lighting System (ALS) for 9R
- **ILLINOIS TOLLWAY I-490** Construction of north segment impacting Rwy 9L/27R

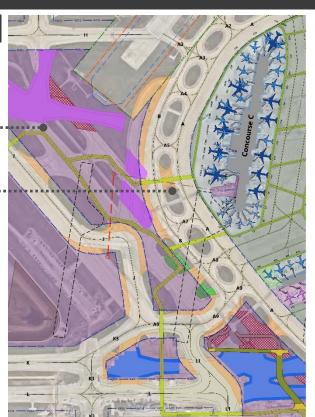


2023 TWY A/B BUMP-OUT PHASING PLAN – AIRFIELD CONDITIONS & WORK AREAS (1 of 3)

Apr 20 – Jun 14

Realignment of service roads •••••••

Twy A6 closes ••



Jun 15 – Aug 9 Airfield Cycle Change Twy B bumps out & gets renamed Q ····· Twy A5 closes Realignment of service roads Twy A8 Extends ****

Source: Chicago O'Hare International Airport - Existing & Future Airport Layout Plans (December 5, 2022); Ricondo (March 1, 2023) / Images not to scale / North



2023 TWY A/B BUMP-OUT PHASING PLAN – AIRFIELD CONDITIONS & WORK AREAS (2 of 3)

Aug 10 – Aug 24

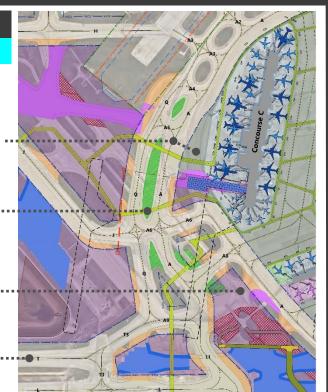
Airfield Cycle Change

Twy A bumps out with aircraft pushback zone

Further realignment ••••• of service roads

Twy A9 closes

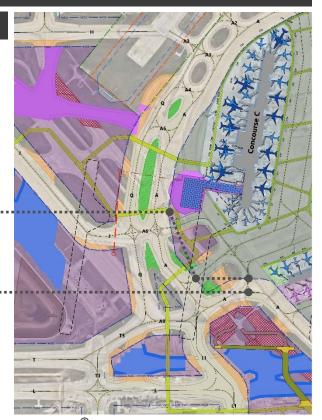
Twy K renamed T ·····



Aug 25 – Oct 4

Ramp control area ••• extends out

Twy A9 reopens •



Source: Chicago O'Hare International Airport - Existing & Future Airport Layout Plans (December 5, 2022); Ricondo (March 1, 2023) / Images not to scale / North 📵



2023 TWY A/B BUMP-OUT PHASING PLAN – AIRFIELD CONDITIONS & WORK AREAS (3 of 3)

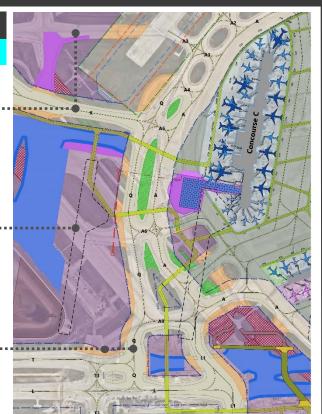
Oct 5 - Dec 15

Airfield Cycle Change

Twy U extends &gets renamed K
Twy H closes

Twy J closes ······

Twy K3 closes & Twy Q extends south



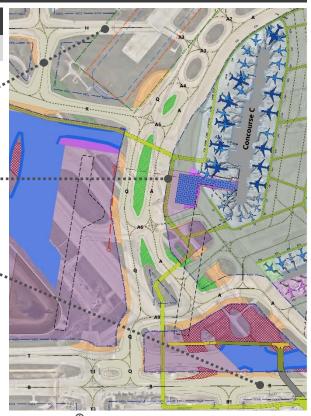
Dec 16 – Spring 24

Winter Condition

Twy H & R reopen *

Perimeter service road reopens

Twy L connects to B *****



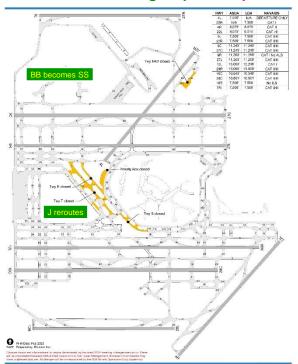
Source: Chicago O'Hare International Airport - Existing & Future Airport Layout Plans (December 5, 2022); Ricondo (March 1, 2023) / Images not to scale / North 🕦



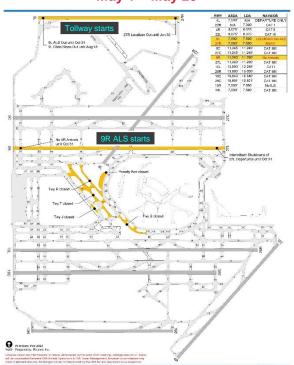


2023 AIRFIELD IMPACT OVERVIEW (1 of 4)

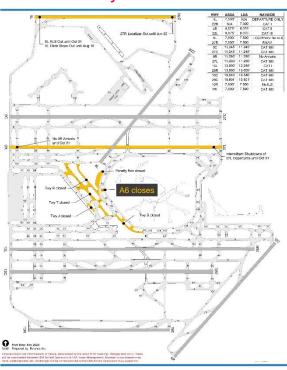
Airfield Chart Change: Apr 20 - Apr 30



May 1 - May 25



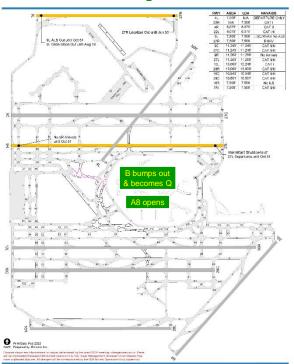
May 26 - Jun 14



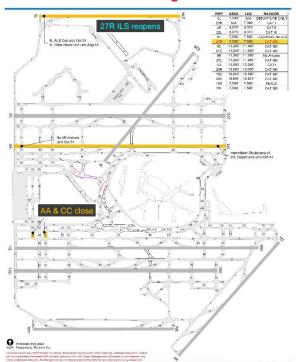


2023 AIRFIELD IMPACT OVERVIEW (2 of 4)

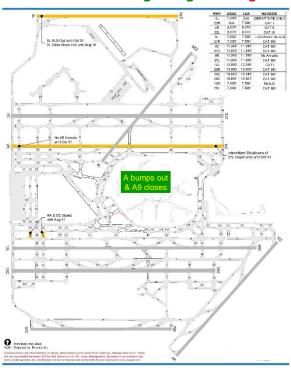
Airfield Chart Change: Jun 15 - Jun 30



Jul 1 – Aug 9



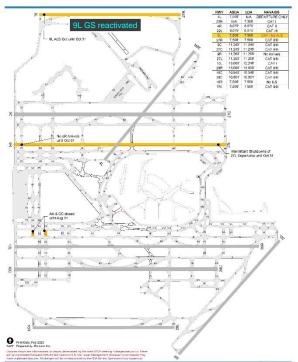
Airfield Chart Change: Aug 10 - Aug 18



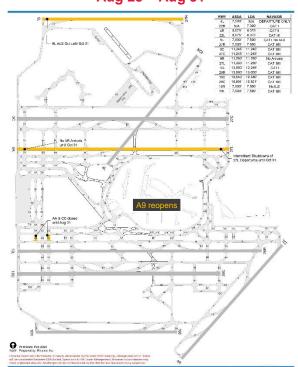


2023 AIRFIELD IMPACT OVERVIEW (3 of 4)

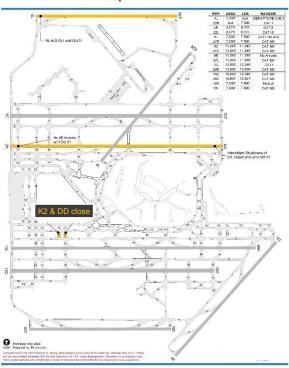
Aug 19 - Aug 24



Aug 25 - Aug 31



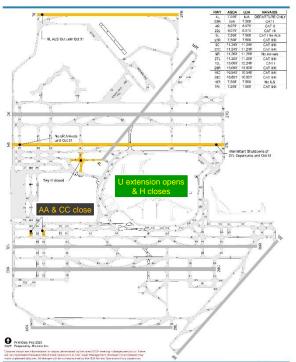
Sep 1 – Oct 4



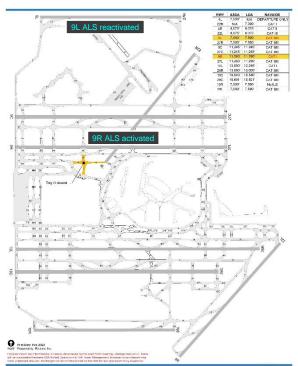


2023 AIRFIELD IMPACT OVERVIEW (4 of 4)

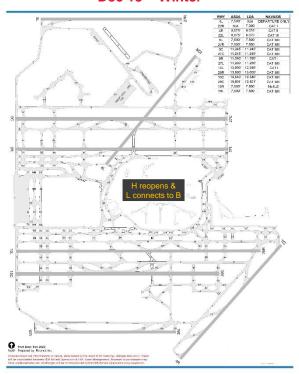
Airfield Chart Change: Oct 5 - Oct 31



Nov 1 - Dec 14



Dec 15 – Winter





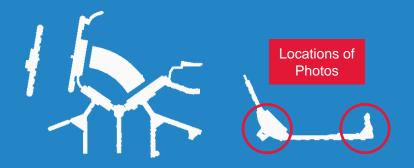


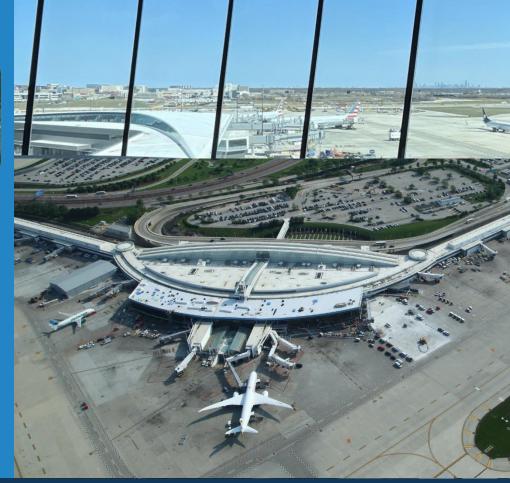
TERMINAL 5 EXPANSION – IN PROGRESS

- 10 additional gates
- 350,000 additional square feet



- Reconfigured international arrivals facility and security checkpoint
- New baggage handling system
- Last new gate (M40) opened in March 2023.
- Overall project completion in 2023



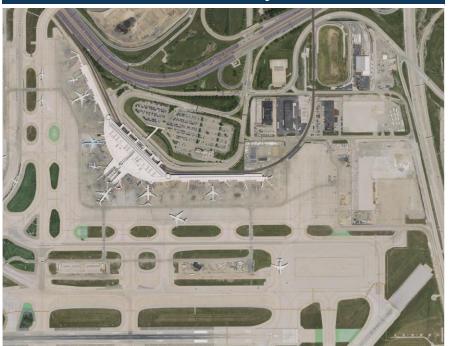






TERMINAL 5 CONSTRUCTION PROGRESS OVERALL EVOLUTION

Terminal 5 – July 2018



Terminal 5 – April 2023



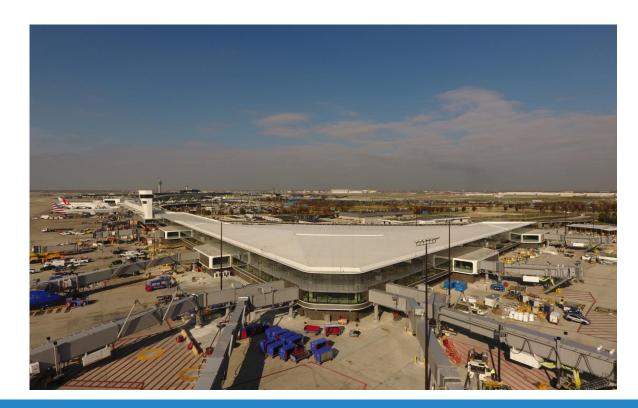
NOTE: Aerial photography – for visual reference only, may not be to scale SOURCES: Woolpert, July 6, 2018; Nearmap, October 1, 2021.



CONSTRUCTION UPDATE TERMINAL 5 EAST EXTENSION

PROJECT SCOPE

- 275,000 SF extension of the T5 Concourse M
- Nine (9) widebody gates, fourteen (14) narrowbody in MARS configuration
- International gates tied to the FIS
- Concessions and airline operations space



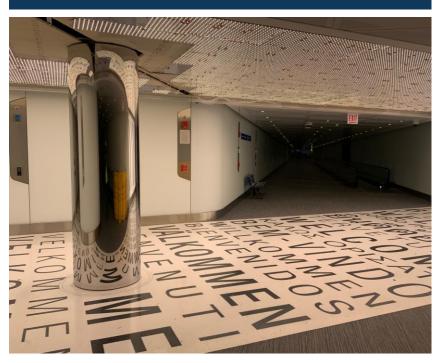




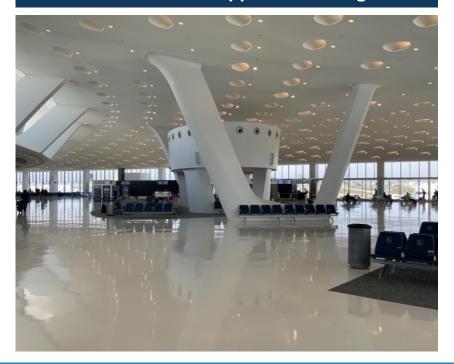
20

CONSTRUCTION UPDATE TERMINAL 5 EAST EXTENSION

East Extension Sterile Corridor



East Extension Upper Level Stage

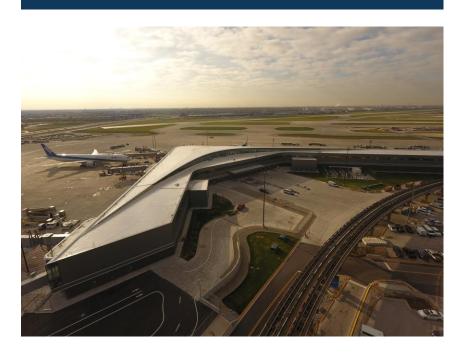






CONSTRUCTION UPDATE TERMINAL 5 EAST EXTENSION

East Extension Landside



East Extension Ramp Control Tower







CONSTRUCTION UPDATE TERMINAL 5 HEADHOUSE & CORE EXPANSION

PROJECT SCOPE

- 45,000 SF core expansion for additional hold room space, lounges and concessions
- Centrally located space
- Bus Station Gate for terminal transfer
- Additional apron space for new consolidated Checked Baggage Inspection Station (CBIS)

Bus Station Exterior



Bus Station Interior





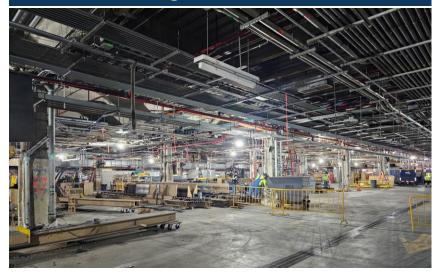


CONSTRUCTION UPDATE BAGGAGE HANDLING SYSTEM REPLACEMENT

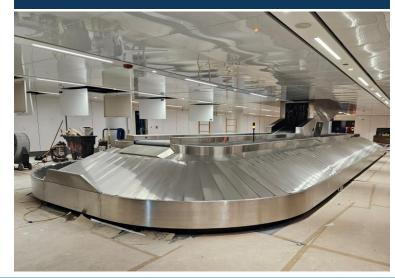
PROJECT SCOPE

- New consolidated CBIS/CBRA with throughput to meet future demand
- New control system, conveyance and makeup carousels
- New domestic carousels

West Bag Room Renovation



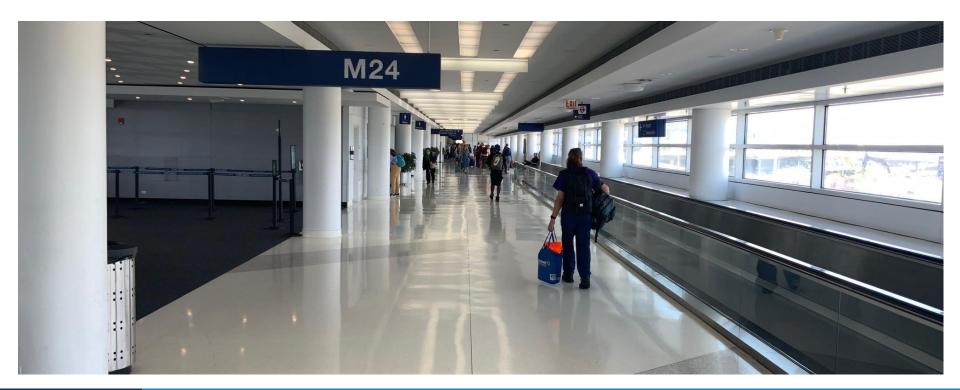
Carousel 12







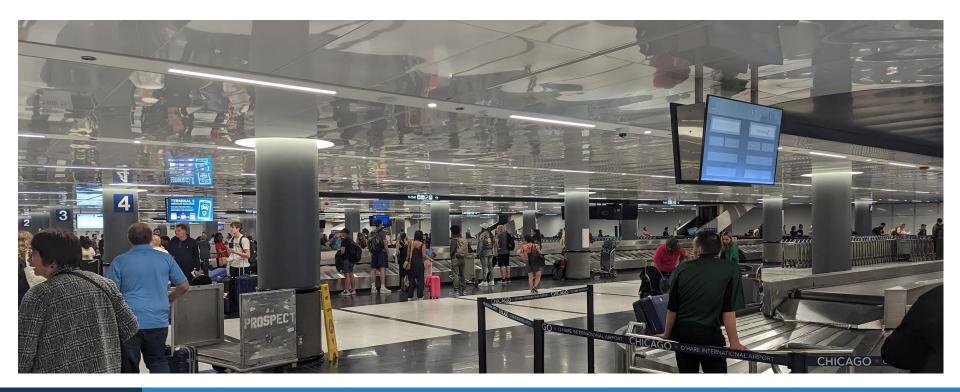
CONSTRUCTION UPDATE LEGACY AREAS – FLOOR RENOVATIONS







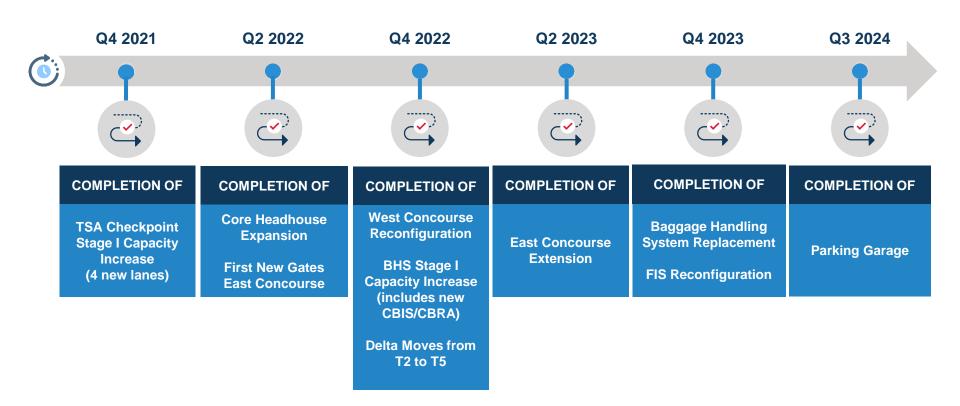
CONSTRUCTION UPDATE LEGACY AREAS – CEILING RENOVATIONS







TERMINAL 5 SCHEDULE MILESTONES







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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 ^{2/}	Devices	1	
Bus Gates	Gates	1 (G15)	

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).

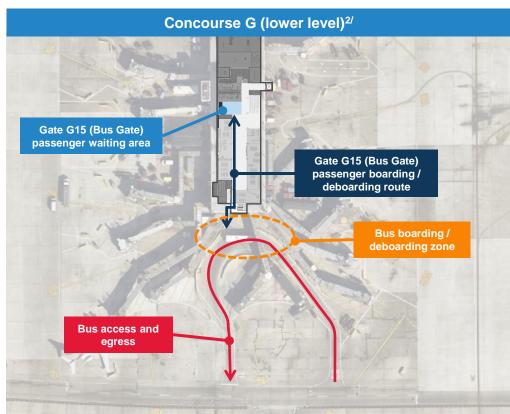
2/ Vacant in Summer 2021. Spirit Airlines and Essential Air Services use a separate, Joint Use, baggage reclaim device.

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





MAIN TERMINALS - G15 BUS GATE / TERMINAL TRANSFER BUS STOP



- A single door is provided for Gate G15 and Terminal Transfer Bus^{1/} operations.
- The Gate G15 waiting area is sized to primarily handle aircraft with 50 seats or less.

Image not to scale : North

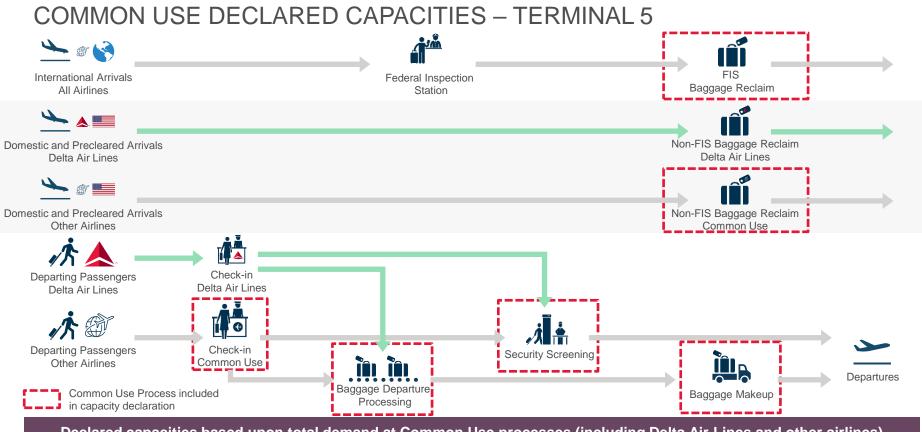
NOTE: 1/ Terminal Transfer Bus provided for passengers connecting between Main Terminals and Terminal 5

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

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







Declared capacities based upon total demand at Common Use processes (including Delta Air Lines and other airlines)



SOURCE: Ricondo & Associates, Inc., March 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	2 ^{2/}	2 ^{2/}	$2^{2/}$
Departures				
Check-in	Positions	115-123	132 ^{3/}	136 ^{3/}
Security Screening ^{4/}	Lanes	13	13	13
Baggage Departure Processing	Originating in-line EDS machines	35/	5 ^{5/}	5 ^{5/}
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.

^{5/} 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

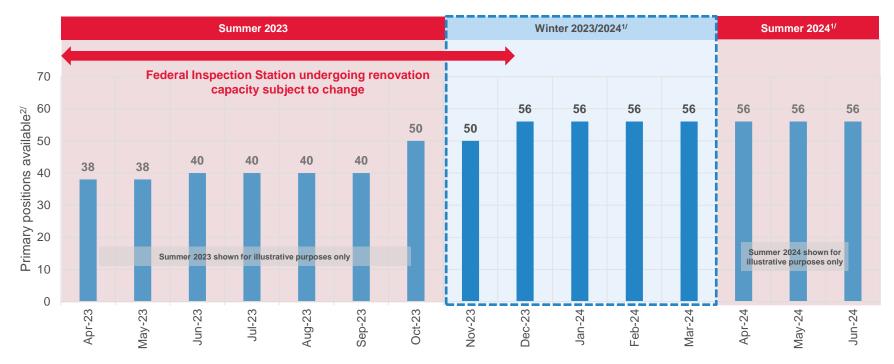
Winter 2022/2023 and Winter 2023/2024

^{2/} 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).

^{3/} Common-use desks only. Does not include Delta Air Lines Preferential Use space.

^{4/} Security screening provided for TSA Precheck as well as standard processes.

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

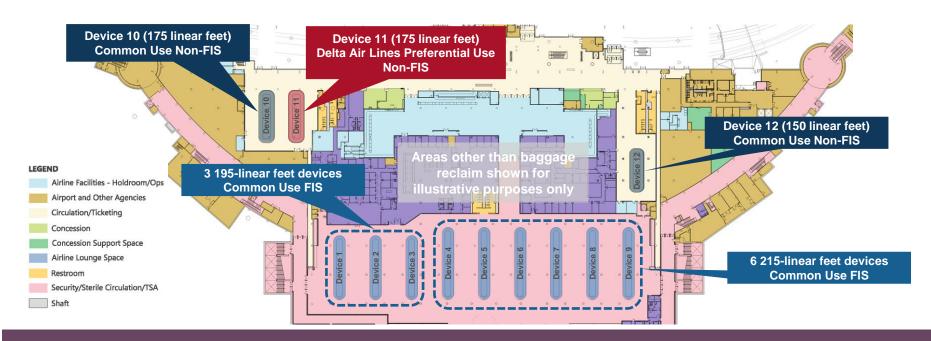


NOTES: 1/ Capacity anticipated to be available prior to and after Winter 2023/2024 is shown for illustrative purposes only and should not be considered to be part of this capacity declaration. 2/ Exhibit only shows installed positions useable for regular processing of passengers. Actual processing capacity 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.





TERMINAL 5 – KNOWN WINTER 2023/2024 CONSTRUCTION ACTIVITIES

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

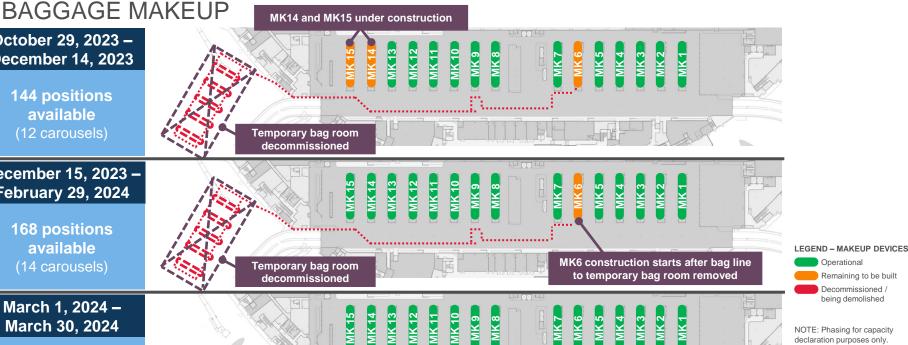
> 144 positions available

<u>December 15, 2023 – </u> February 29, 2024

> 168 positions available (14 carousels)

March 1, 2024 -March 30, 2024

180 positions available



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

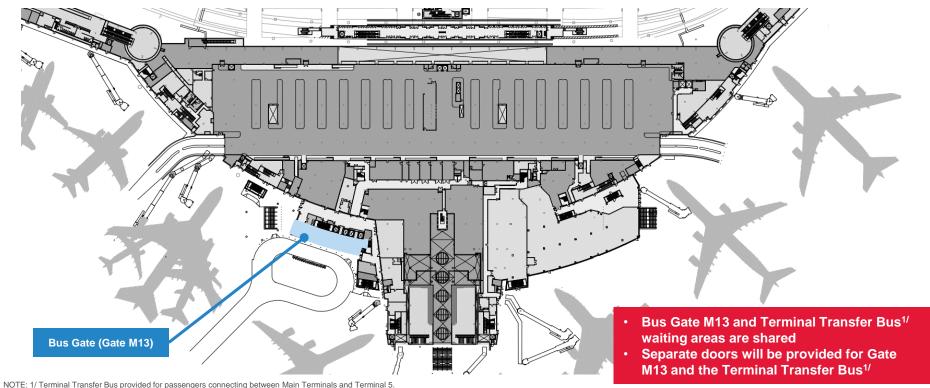
Operational

Remaining to be built Decommissioned / being demolished





TERMINAL 5 – M13 BUS GATE / TERMINAL TRANSFER BUS STOP









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

Danas Flau	Drasses	Time of Day	Available Common Use Units		Declared Common Use Capacity	
Passenger Flow	Process	Time of Day	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	12/	Domestic seats per hour ^{3/}	600
	Check-in ^{4/}	All day	Positions	8	Seats per four hours	1,100
Departures	Security Screening	All day	Lanes	205/	Seats per four hours	18,400
	Baggage Makeup	All day	Devices	1 (joint use) ^{6/}	Seats per four hours	1,900 (joint use) ^{6/}

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.

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





^{2/} 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.

^{3/} 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.

^{5/} Includes 4 Automated Screening Lanes (ASL) and 16 traditional lanes.

^{6/} Joint Use baggage makeup currently used by Spirit Airlines and Essential Air Services (as of August 2022: Cape Air and Key Lime Air).

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

December Flow	Dunner	Time of Day	Available Common Use Units		Declared Common Use Capacity ^{1/}	
Passenger Flow	Process	Time of Day	Unit Capacity		Unit	Capacity
	Federal Inspection Station ^{2/}	All day	Primary positions	10/29 – 11/30: 50	Seats per hour	10/29 - 11/30: 3,800 12/1 - 3/30: 4,200
International Arrivals	rederal inspection station	All day	Tilliary positions	12/1 – 3/30: 56	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 ^{4/}	Domestic seats per hour ^{4/}	1,500
	Check-in	All day	Positions	132	Seats per 4-hours	6,600
	Socurity Corooning	Peak (12:30-20:30)	Lanes	13	Seats per 4-hours	8,400
Departures	Security Screening	Off-peak (20:30-12:30)	Lanes	11	Seats per 4-hours	7,100
	Baggage Departures Processing	All day	In-line EDS machines 5 ^{5/} Seats pe	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.

^{5/} 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.





^{2/} Capacity is subject to U.S. Customs and Border Protection staffing.

^{3/} FIS baggage reclaim includes 6 devices with 215 linear foot presentation length and 3 devices with 195 linear foot presentation length.

^{4/} 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.

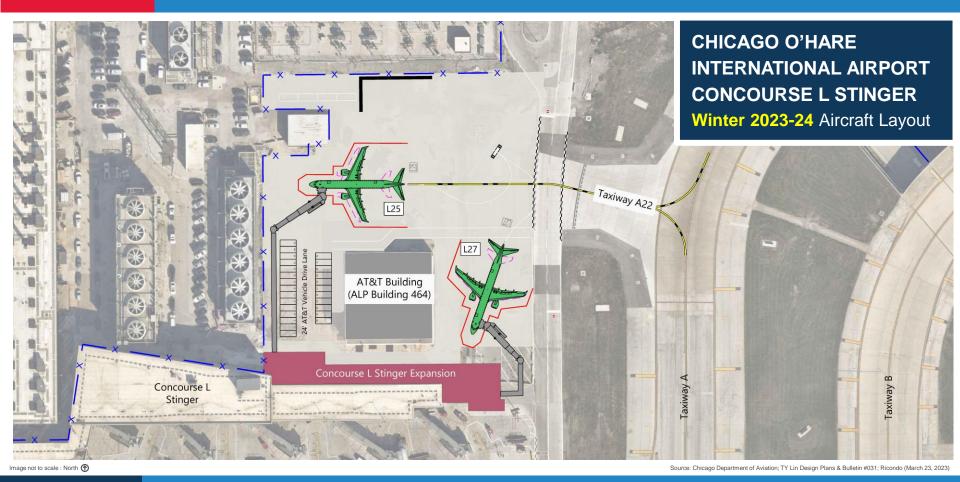












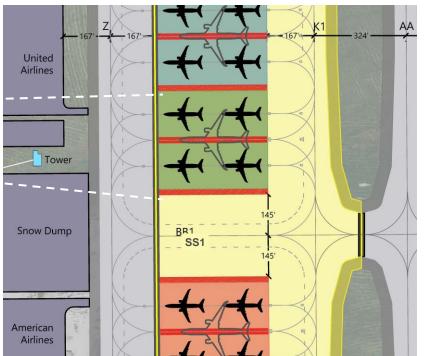
CDA

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O'HARE CENTRAL DE-ICING PAD – HARDSTAND PARKING

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



Source: Chicago Department of Aviation, O'Hare International Airport - Draft Airport Layout Plan (Mar 2020) Nearmap Aerial (Sep 28, 2022)

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





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WINTER 2023/2024 INITIAL SCHEDULE SUBMISSION

Due by May 11, 2023

For Scheduling Submissions: ordschedules@igcinc.org

For General Inquiries: plark@igcinc.org

For certified mail or delivery services:

Chicago O'Hare International Airport

10510 W. Zemke Road Chicago, IL 60666

Attn: Paul Lark, Airport Scheduling Manager

CC: Chief Operating Officer, Chicago Department of Aviation

The V	Vinter 2023/2024 Initial Schedule Submission shall:	Preferential Use Gate Space Users	Common Use Gate Space Users
1	Document the requested schedule of all flights to be operated by Airline and any Affiliates by day of the week and time of day for the entirety of the IATA Season.	⊘	Ø
2	Specify for each flight:		
2a	Flight number	\bigcirc	\bigcirc
2b	Scheduled flight arrival and departure times	\bigcirc	\bigcirc
2c	Flight links/turns between arrival and departure flight segments	\bigcirc	\bigcirc
2d	Aircraft equipment type and number of seats	\bigcirc	⊘
2e	Domestic/International flight designation in industry standard format: domestic, pre-cleared international, or international requiring FIS facilities	0	\bigcirc
3	Include RON Activities and Scheduled Seasonal Service	\bigcirc	\oslash
4	Gate Space Plan	\bigcirc	0

SOURCE: Chicago Department of Aviation or City of Chicago, O'Hare Airport Terminal Space Use Protocols, April 2019.





WINTER 2023/2024 COMMON USE ANCILLARY SPACE REQUEST

Due by May 11, 2023

The W	inter 2023/2024 Common Use Ancillary Space Request shall include:	Common Use Ancillary Space Users
1	Quantity of check-in, re-check, and outbound baggage make-up positions requested per flight.	\bigcirc
2	Any synergies that may be achieved when multiple flights are handled simultaneously (if applicable).	\bigcirc
3	Requested exceptions to Periods of Use on Common Use Ancillary Space relative to scheduling flight arrival or departure time.	\bigcirc
4	Special requests that Air Carriers wish for the Scheduling Manager to take into consideration when addressing Air Carrier's requirements.	⊘

For Scheduling Submissions: ordschedules@igcinc.org

For General Inquiries: plark@igcinc.org

For certified mail or delivery services:

Chicago O'Hare International Airport 10510 W. Zemke Road

Chicago, IL 60666

Attn: Paul Lark, Airport Scheduling Manager

CC: Chief Operating Officer, Chicago Department of Aviation

SOURCE: Chicago Department of Aviation or City of Chicago, O'Hare Airport Terminal Space Use Protocols, April 2019.



COMMON USE GATE SPACE REQUESTS FROM AIRLINES WITH PREFERENTIAL USE GATES

<u>Airlines with preferential use gates</u> submitting requests to operate from common use gates shall submit the following to the Scheduling Manager:



Initial schedule submission (contents defined in TSUPs Section 2.3)



Demonstration that the requested flights cannot be gated on the airline's preferential use gates *(metrics defined in TSUPs Section 3.6)*

- Flights will be gated according to the priorities outlined in Section 3. If no satisfactory demonstration is received, the requested flights will only be gated after all other requests have been processed.
- These provisions are valid for all common use gates, including those at Concourse L and Terminal 5.
- The Scheduling Manager will review the demonstrations on behalf of the City.

Airlines shall seek and receive approval from the Scheduling Manager to swap flights between common use and preferential use gates, even if the flights have similar arrival and departure times.





WINTER 2023/2024 COMMON USE ANCILLARY SPACE REQUEST FORMS



P.O. Box 66581 Chicago O'Hare International Airport Chicago, IL 60666

Date Submitted:	Requested Season:	
(MM/DD/YYYY)	(Season/Year)	
Airline:	Aircraft Seats:	
	Min Positions:	Max Positions:
Ticket Counter Positions Requested (Ref TSUPs 5.1&5.2):		
Baggage Make-Up Positions Requested (Ref TSUPs 5.1&5.2):		
Notes/Special Requests:		

	For IGC Use Only:
	Number of Position(s) Assigned (Per TSUPs)
Ticket Counter Position Allocated:	
Baggage Make-Up Positions Allocated:	

Ancillary space requests are to be submitted to the O'Hare Airport Scheduling Manager no later than the date listed in the Seasonal Communication provided by the O'Hare Airport Scheduling Manager. Any submissions received after the respective date will be considered late and allocated according to Section 5.1 & 5.2 of the Terminal Space Use Protocols

www.igcinc.org Phone: +1 773-377-0155 Fax: +1 773-377-0161



P.O. Box 66581 Chicago O'Hare International Airport Chicago, IL 60666

illion ose Ancillary Space	Request Form
Requested Season:	
(Season/Year)	
Aircraft Seats: (Per Initial Schedule Submissio	n by Network Planning)
Use By All Airlines:	
Min Positions:	Max Positions:
nternational (Non-Precleared) Air	lines:
	(Season/Year) Aircraft Seats: (Per Initial Schedule Submissio

For IGC Use Only:		
	Number of Position(s) Assigned (Per TSUPs)	
Check-in Position Allocated:		
Baggage Make-Up		
Positions Allocated:		
Re-Check/Customer Service		
Positions Allocated:		
Notes:		
	Suhmit	

Ancillary space requests are to be submitted to the O'Hare Airport Scheduling Manager no later than the date listed in the Seasonal Communication provided by the O'Hare Airport Scheduling Manager, Any submissions received after the respective date will be considered late and allocated according to Section 5.1 & 5.2 of the Terminal Space Use Protocols

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CHICAGO DEPARTMENT OF AVIATION

JAMIE L. RHEE, COMMISSIONER



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