

# **Airport Certification Manual**

## **Minneapolis-St. Paul International Airport (MSP)**

DocuSigned by:

*Joe Harris*

3CE5FE4100D3455

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**Joe Harris**  
**Vice President,**  
**Management and Operations**

Metropolitan Airports Commission

## **Minneapolis-St. Paul International Airport**

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Date:

*Penickham*

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MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL

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**Exhibit 500-1** – LOA, Airport Emergency Services at Minneapolis-St. Paul International Airport (MSP)

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**MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL****Revision Control Sheet**

<b>Revision Number</b>	<b>Revision Date</b>	<b>Revision Contents and/or Remarks</b>
001	07/01/07	Pages iv - vi, Revision Control Sheet, Distribution List
001	07/01/07	Page 11-2, Declared Distances & Displaced Thresholds
001	07/01/07	Page 11-3, safety areas for Taxiways K & L
001	07/01/07	Page 12-3, 12-4, 12-5, Taxiway reflectors
001	07/01/07	Page 15-1, & 15-2, paragraph a, vehicles 16 & 17
001	07/01/07	Page 16-1, items c & e
001	07/01/07	Page 21-1, 21-2, 21-3, 21-4, 21-5, Pedestrian and Ground Vehicles
001	07/01/07	Page 24-1, item 3.a
001	07/01/07	Exhibit 1, Operations Organization Chart
001	08/15/06	Exhibit 7, Sign Plan
001	07/01/07	Exhibit 9, Snow Plan
001	07/01/07	Exhibit 13, Letters of Agreement
002	01/22/09	Exhibit 7, Updated Sign Plan
003	03/31/09	Exhibit 9, Snow Plan: Added information related to continuous monitoring and crew resource management.
004	10/31/10	Complete update of the entire document.
005	01/01/12	Page 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, Pedestrian and Ground Vehicles
006	03/18/13	Pages i, iv, Table of Contents and Revision Control Sheet. Pages v-vi, Elimination of Document Control Sheet (page renumbering). Page 4-1, Falsification, reproduction, or alteration of applications, certificates, reports, or records. Page 8-1, 8-2 (format), CEO, Personnel. Page 21-2, 21-4, Pedestrians and Ground Vehicles.
007	09/15/13	00 -Table of Contents; Sections 9, 11, 12, 15, 16, 20, 24, 26, 27; Exhibits 1, 2, 4, 5-2, 6, 7, 9-1, 9-2, 10, 11, 13-1, 13-2, 14, 16, 17.
008	07/31/14	00 - Table of Contents, Section 21
009	08/01/14	Table of Contents, Section 13, Exhibit 9
010	03/24/2016	Updates to 00 - Table of Contents and Sections 12, 15, 16, 17, 20, and 26 as well as Exhibits 1, 4, 7, 10, 12, 14, and 15. Addition of Exhibit 18.

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**MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL****Revision Control Sheet (continued)**

<b>Revision Number</b>	<b>Revision Date</b>	<b>Revision Contents and/or Remarks</b>
011	09/01/2016	Changes to Sections 13, 20, 26 and Exhibit 9 to incorporate Runway Condition Codes (RCCs) and other changes to Airport Condition Reporting methods.
012	02/11/2018	Updates to 00 - Table of Contents, Sections 9 and 12 and Revised Movement/Non-Movement Area Letter of Agreement in Exhibit 13.
013	05/11/2018	Updates to 00 - Table of Contents, Distribution List, Section 21, Exhibit 1, Exhibit 5, and Exhibit 9
014	08/31/2018	Updates to Table of Contents, Section 11-Safety Areas, Section 12-Marking, Signs and Lighting, Section 15-ARFF Equipment and Agents, Section 17-Handling and Storing of Hazardous Substances and Materials, Exhibit 10-ARFF Equipment/Personnel, Exhibit 16-Preventive Maintenance Procedures for PAPIs and Generators, Exhibit 17-Engineered Materials Arresting System (EMAS) Maintenance Program, Exhibit 18-Fuel System Inspection Reports and Exhibit 19 - Corrective Action Form
015	11/09/2018	Updates to Section 19- Airport Emergency Plan and Exhibit 11- Airport Emergency Plan
016	06/01/2019	Entire document reformatting, and reorganization. Updates to Section 317- ARFF: Equipment and Agents, Section 321 -Handling and Storing of Hazardous Substances and Materials, Exhibit 303-1-Organization Chart, Exhibit 313-1-Snow Plan, Exhibit 317-1-ARFF Equipment/Personnel, Exhibit 327-1-Daily Self-Inspection Forms, Exhibit 339-1-NOTAM Information
017	09/27/2019	Updates to Distribution List, Section 323-Air Traffic and Wind Direction Indicators, Exhibit 311-2-Preventive Maintenance Inspection Procedures for PAPIs and Generators, Exhibit 313-1-1-Snow Plan, 321-1-Fuel System Inspection Reports, Exhibit 327-1-Self-Inspection Forms
018	10/01/20	Updates to Distribution List, Section C of Section 321 and replacement of pages 4 and 5 of Exhibit 321-1 with new training form.
019	11/20/20	Updates to Distribution List, Section 309, Section 311, Section 321, Section 323, Exhibit 305-2, Exhibit 311-2, and Exhibit 500-1
020	12/23/20	Updates to the Table of Contents and the Sign Plan in Exhibit 311-1.

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<b>Revision Number</b>	<b>Revision Date</b>	<b>Revision Contents and/or Remarks</b>
020A	06/16/2021	Updates to the Table of Contents, Distribution List, and the Sign Plan in Exhibit 311-1.
021	6/21/2021	Updated Wildlife Hazard Management Plan in Exhibit 337-1.
022	3/25/2022	Updated Table of Contents-Distribution List, Section 303, Section 327, Exhibit 309-1, Exhibit 311-2, and Exhibit 327-1.
023	04/22/2022	Updated Section 311, Section 325, Section 339, Exhibit 325-1 and Exhibit 339-1
024	08/26/2022	Updated Table of Contents, Section 305, Section 311, Exhibit 313-1, Exhibit 321-1, Exhibit 500-1
025	11/18/2022	Updated Table of Contents, Section 301, Section 317, Section 335, Exhibit 101-2, and Exhibit 500-10
026	07/14/2023	Updated Table of Contents, Section 201, Section 311, Section 327, Section 329, and Exhibit 327-1
027	10/06/2023	Updated Table of Contents Distribution List, Section 313 and Exhibit 313-1.
028	10/12/2023	Updated Exhibit 325-1, Airport Emergency Plan - Revision 06
029	12/29/2023	Updated Section 309, Section 317, Section 319, and Exhibit 317-1
030	01/26/2024	Update to the Sign Plan, Exhibit 311-1
031	01/31/2024	Updated Exhibit 325-1, Airport Emergency Plan - Revision 07
032	04/12/2024	Updated Section 337 and Exhibit 337-1, Wildlife Hazard Management Plan
033	05/30/2024	Updated Table of Contents Distribution List, Exhibit 500-6, and added new Exhibit 500-11.
034	07/10/2024	Updated Section 317, Exhibit 317-1, and Exhibit 500-6.
035	09/09/2024	Updated Exhibit 313-1, Snow and Ice Control Plan
036	09/18/2024	Updated Exhibit 325-1, Airport Emergency Plan
037	09/19/2024	Added Sections 401, 403, and Exhibit 500-12
038	11/01/2024	Updated Table of Contents Updated Exhibit 313-1, Snow and Ice Control Plan section 5.7 and Appendices 4, 5, 6, 7, 8, 9, 10, 11 Updated Section 309 page 3 and Exhibit 327-1 page 4
039	11/25/2024	Updated Table of Contents Updated Section 311 Added Exhibit 311-3
040	01/15/2025	Updated Section 317 page 2 and Exhibit 317-1

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041	04/07/2025	Added Exhibit 500-13
042	04/08/2025	Updated Section 317 and Exhibit 317-1
043	04/24/2025	Updated Exhibit 325-1 - Airport Emergency Plan
044	05/01/2025	Updated Section 321 and Exhibit 321-1
045	05/16/2025	Updated Section 301, Section 303, and Section 401, and added Section 402.
046	07/08/2025	Updated Section 317, Exhibit 317-1, and Exhibit 500-13

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### Distribution List

1. Original ACM
  2. FAA Airport Certification Inspector
  3. MAC Executive Director/CEO
  4. MAC Executive Vice President/COO
  5. MAC Vice President Management and Operations
  6. MAC Director of Integrated Operations
  7. MAC Director of Airport Maintenance and Asset Management
  8. MAC Director of Terminal and Landside Operations
  9. MAC Assistant Director of Field Maintenance
  10. MAC Director of Real Estate and Airline Affairs
  11. MAC Emergency Manager
  12. MAC Airport Police Department
  13. MAC Airport Fire Department
  14. MAC SMS Manager
  15. MAC Trades Department
  16. MAC Field Maintenance Department
  17. MAC Electrical Department
  18. MAC Paint Department
  19. MAC Airport Development Department
  20. MAC Airside Operations Department
  21. MAC Emergency Communications Department
  22. Air Traffic Manager, FAA Air Traffic Control Tower
  23. Manager, FAA Airways Facilities
  24. Minnesota State Department of Transportation
  25. General Manager, Signature Flight Support
- 

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### Distribution List

26. Station Manager, Air Canada
  27. Station Manager, WestJet Airlines
  28. Station Manager, American Airlines
  29. Station Manager, Southwest Airlines
  30. Station Manager, Delta Air Lines
  31. Station Manager, FedEx
  32. Station Manager, Frontier Airlines
  33. Station Manager, Icelandair
  34. Station Manager, UNIFI
  35. Station Manager, Spirit Airlines
  36. Station Manager, Skywest Airlines
  37. Station Manager, Endeavor Airlines
  38. Station Manager, United Airlines
  39. Station Manager, Sun Country Airlines
  40. Station Manager, Alaska Airlines
  41. Station Manager, DHL
  42. Station Manager United Parcel Service
  43. 934th Air Force Reserve
  44. 133rd Air National Guard
  45. Swissport
  46. Station Manager, Denver Air Connection
  47. Station Manager, Air France/KLM
  48. Station Manager, Atlas Air
  49. Station Manager, Allegiant Airlines
  50. Station Manager, Amazon Air
- 

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### Distribution List

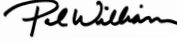

- 51. Station Manager, Aer Lingus
- 52. Station Manager, Discover Airlines

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**Section 317 - ARFF: Equipment and Agents**

- A. ARFF equipment required by the airport index determination is housed between two stations. Fire Station # 1 is located north of Terminal 2 and Fire Station # 2 is located west of the ATC Tower. Both stations provide direct access to taxiways, runways, and ramp areas. The stations and required equipment are staffed 24 hours a day, 7 days a week.
- B. ARFF equipment consists of the following vehicles.

**Crash 14: 2021 Oshkosh Global Striker 3000 w/HRET**

- 3000 gallons water, 420 gallons F3
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

**Crash 15 : Oshkosh Global Striker 4500 w/HRET**

- 4500 gallons water, 630 gallons F3.
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

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**Crash 19: 2014 Oshkosh Global Striker 3000 w/HRET**

- 3000 gallons water, 420 gallons AFFF
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

**Crash 18: Oshkosh Global Striker 4500 w/HRET**

- 4500 gallons water, 630 gallons F3.
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

**Crash 16: 2022 Oshkosh Global Striker 3000 w/HRET**

- 3000 gallons water, 420 gallons F3.
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

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Date:

A handwritten signature in black ink, appearing to read "Paul Williams".

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### Crash 17: Oshkosh Global Striker 4500 w/HRET

- 4500 gallons water, 630 gallons F3.
- 460 lbs. Halotron I, 500 lbs. Purple K Dry Chemical
- HRET roof turret capable of flowing 500 gpm low rate / 1000 gpm high rate of water or 3% foam mixture and piercing nozzle capable of flowing 250 gpm water or 3% foam mixture.
- Hydro-Chem Bumper Turret capable of flowing 625 gpm low rate/ 1250 gpm high rate of water or 3% foam mixture and approximately 17 lbs. per second of dry chemical.
- Hydro-chem hand line capable of flowing at approximately 60 gpm of water or 3% foam mixture and approximately 7 lbs. per second of dry chemical. Halotron I hand line capable of flowing at approximately 7 lbs. per second.
- Portable extinguishers: One 2.5 gallon water fire extinguisher, one 20 lb. Purple K fire extinguisher, and one 13.25 lb Clean Agent fire extinguisher.

C. Vehicle capacity and discharge rates are depicted in a table in Exhibit 317-1.

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Exhibit 317-1 - ARFF Equipment/Personnel

Vehicle Call Sign	Crash 14	Crash 15	Crash 19	Crash 16	Crash 18	Crash 17
Year	2021	2024	2014	2022	2024	2024
Manufacturer	Oshkosh	Oshkosh	Oshkosh	Oshkosh	Oshkosh	Oshkosh
Model	Global Striker	Global Striker	Global Striker	Global Striker	Global Striker	Global Striker
Condition of Vehicle	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Number of Personnel Assigned to Vehicle	1	1	1	1	1	1
Water capacity (gallons)	3000	4500	3000	3000	4500	4500
Main Turret Discharge rate (gal/min)	1250	1250	1250	1250	1250	1250
AFFF capacity (gallons)			420			
F3 capacity (gallons)	420	630		420	630	630
Halotron capacity (pounds)	460	460	460	460	460	460
Dry Chemical capacity (pounds)	500	500	500	500	500	500
Water Fire Extinguisher	1 - 2.5 gal	1 - 2.5 gal	1 - 2.5 gal	1 - 2.5 gal	1 - 2.5 gal	1 - 2.5 gal
Purple K Fire Extinguisher	1 - 20 lb	1 - 20 lb	1 - 20 lb	1 - 20 lb	1 - 20 lb	1 - 20 lb
Dry Chem Fire Extinguisher						
Clean Agent Fire Extinguisher	1 - 13.25 lb	1 - 13.25 lb	1 - 13.25 lb	1 - 13.25 lb	1 - 13.25 lb	1 - 13.25 lb
Additional Info	w/HRET (Snozzie)	w/HRET (Snozzie)	w/HRET (Snozzie)	w/HRET (Snozzie)	w/HRET (Snozzie)	w/HRET (Snozzie)

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## MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL

# Exhibit 500-13 Taxiway A and Taxiway B Convergence Taxi and Pushback Procedures

Docusign Envelope ID: D3467A33-F91D-4519-BE23-CB63E92A0893

**Taxiway A and Taxiway B Convergence Taxi and Pushback Procedures Letter of Agreement**  
**Federal Aviation Administration, Minneapolis Airport Traffic Control Tower (MSP) and Metropolitan Airports Commission (MAC)**  
**Letter of Agreement (Effective: April 14, 2025)**

**Subject: Taxi and Pushback Procedures in Zone of Restricted Operations on Taxiways A and B at MSP**

**1. Purpose:**

Minneapolis-St. Paul International Airport has a defined area of aircraft restriction at the convergence of Taxiways A and B that is restricted to single aircraft taxi. This Letter of Agreement defines the allowable and restricted taxi and pushback operations in this restricted area. The restricted area is shown in Exhibit A attached to this Letter of Agreement.

**2. Responsibilities:**

- a) MSP will control taxi and pushback operations within the restricted area in accordance with the operational procedures stated in this Letter of Agreement.
- b) MAC will publish and disseminate the operational procedures stated in this Letter of Agreement to the appropriate stakeholders and air carriers.

**3. Operations:**

Pushbacks at gate G3 will encroach into the taxiway object free area of Taxiway A7 and will require aircraft traffic on Taxiway A to hold outside of the restricted area west of Taxiway A7 or hold short to the east of Taxiway A5.

Pushbacks at the following gates will encroach into the taxiway object free area of Taxiway A5 and will disallow the use of Taxiway A5 during the pushback operation:

- a) G4
- b) G5
- c) G6
- d) G8

Simultaneous pushbacks from gates within the restricted area are allowed.

Aircraft destined for gates G4, G5, G6, and G8 may taxi to their gate from the east if there is a pushback at gate G3.



Aircraft destined for gate G3 may taxi to their gate from the west if there are pushbacks at gates G4, G5, G6, or G8.

Aircraft held on Taxiway A during a pushback operation in the restricted area may continue their taxi after the aircraft that has been pushed back has begun their taxi and is established on the Taxiway A or Taxiway B centerline.

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Exhibit 500-13, page 1

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Docusign Envelope ID: D3467A33-F91D-4519-BE23-CB63E92A0893

Aircraft on Taxiway A may not taxi behind aircraft taxiing to gates within the restricted area until the aircraft taxiing into the gate is clear of the Taxiway A taxiway object free area.

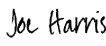
When an aircraft is pushed or parking at Gate G3, Taxiway A7 is not usable. When aircraft are pushed or parking at Gates G4-G8, Taxiway A5 is not usable; Taxiway A4 is usable with a turn away from the restricted area of Gates G4-G8.

## 4. Exhibits:

- a) MSP Operational Restrictions Map
- b) Gate G3 pushback
- c) Gate G4 pushback
- d) Gate G5 pushback
- e) Gate G6 pushback
- f) Gate G8 pushback

Signed by:  
  
 B485AA64D6A24D1...

Brittany Stapf  
 MSP Air Traffic Manager  
 Federal Aviation Administration

DocuSigned by:  
  
 3CF5FF1199D3455...

Joe Harris  
 Vice President, Management and  
 Operations  
 Metropolitan Airports Commission

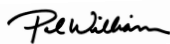

Signed by:  
  
 93922B0A48B64F7...

Jerah Kavoosi  
 MSP NATCA Representative  
 Federal Aviation Administration

**Original Date: 12/09/04**

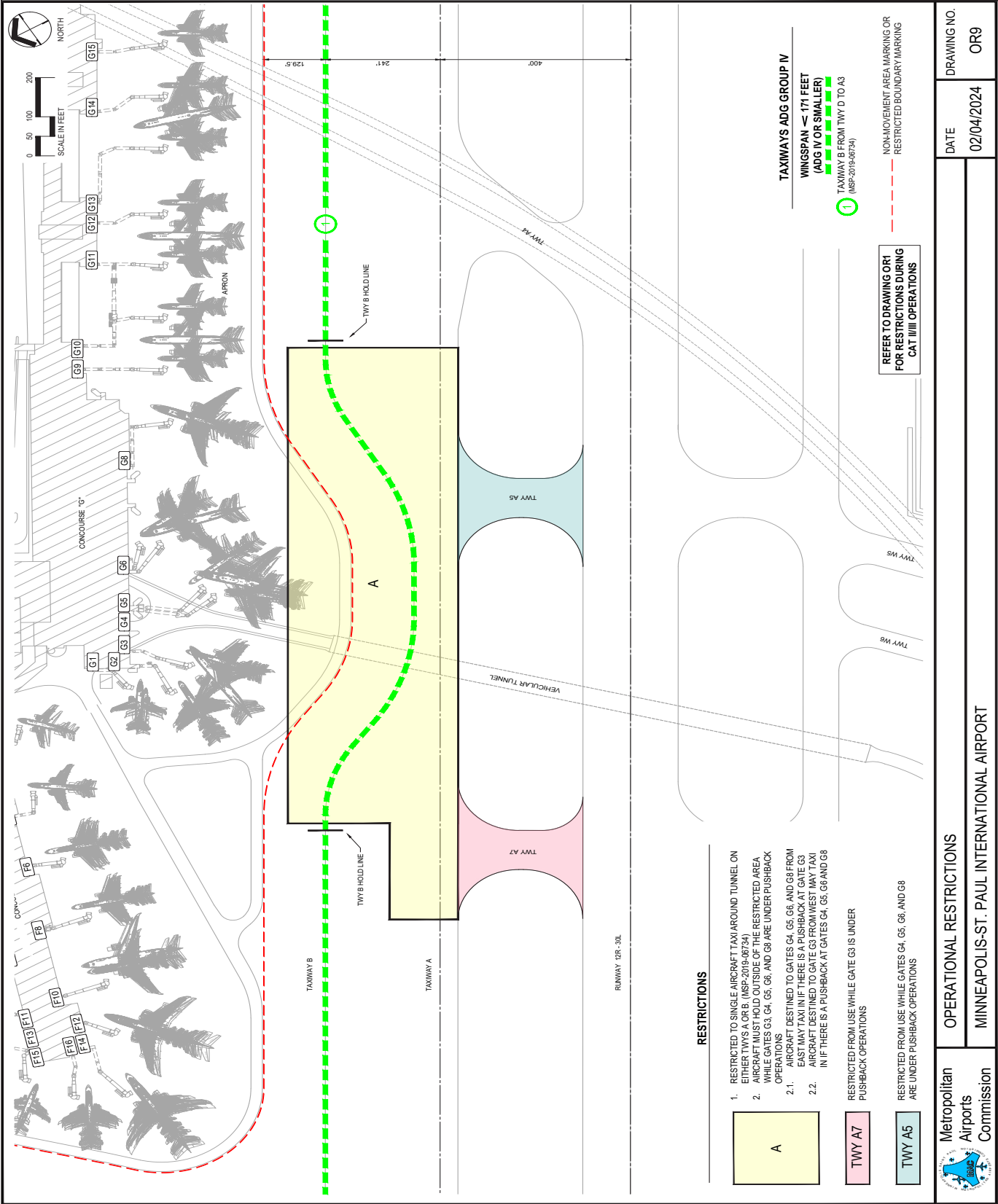
**Revision Date: 07/08/25**

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FAA Acceptance:   
 Date: Jul 21 2025



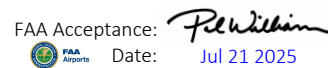
MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL



Original Date: 12/09/04

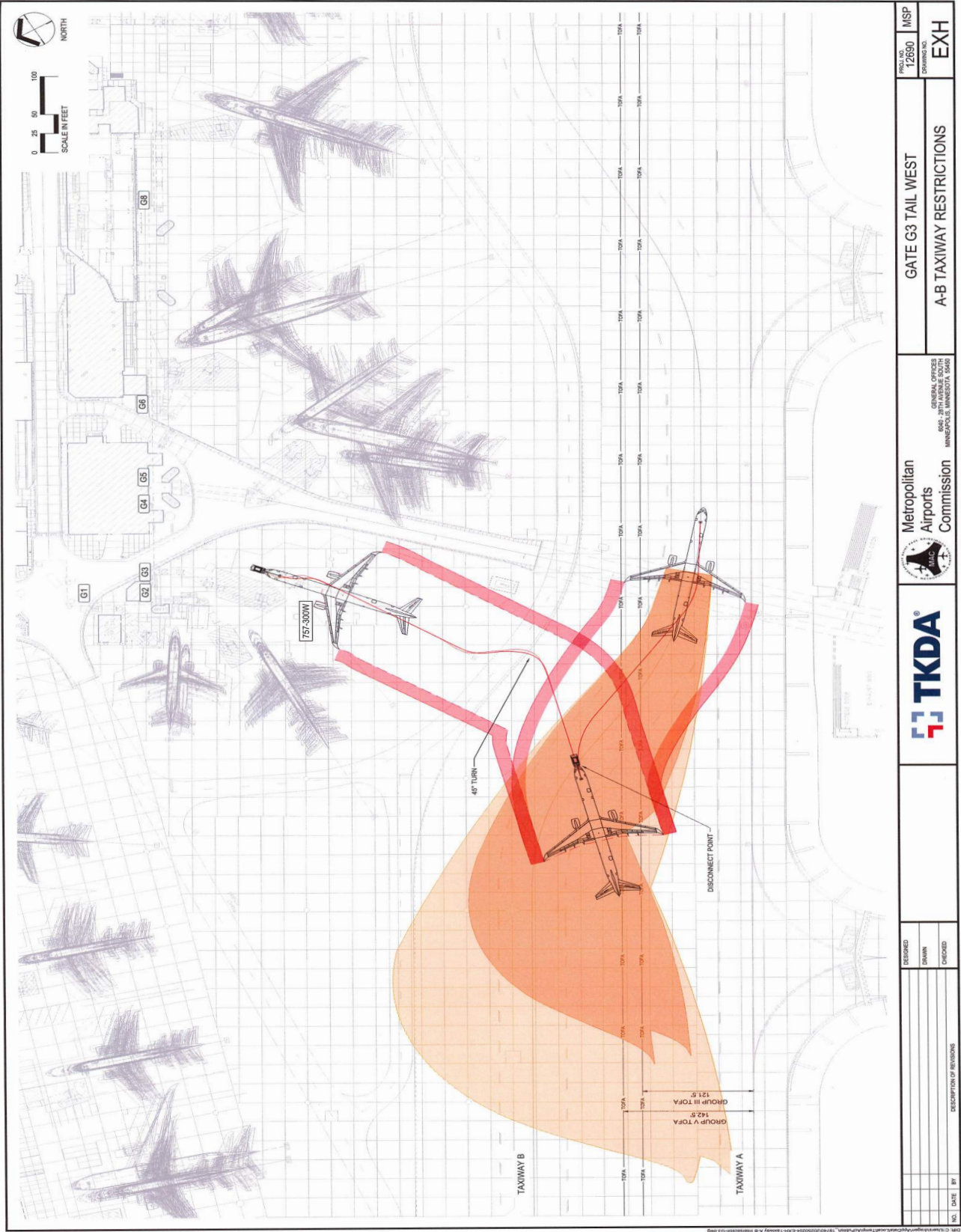
Revision Date: 07/08/25

Exhibit 500-13, page 3





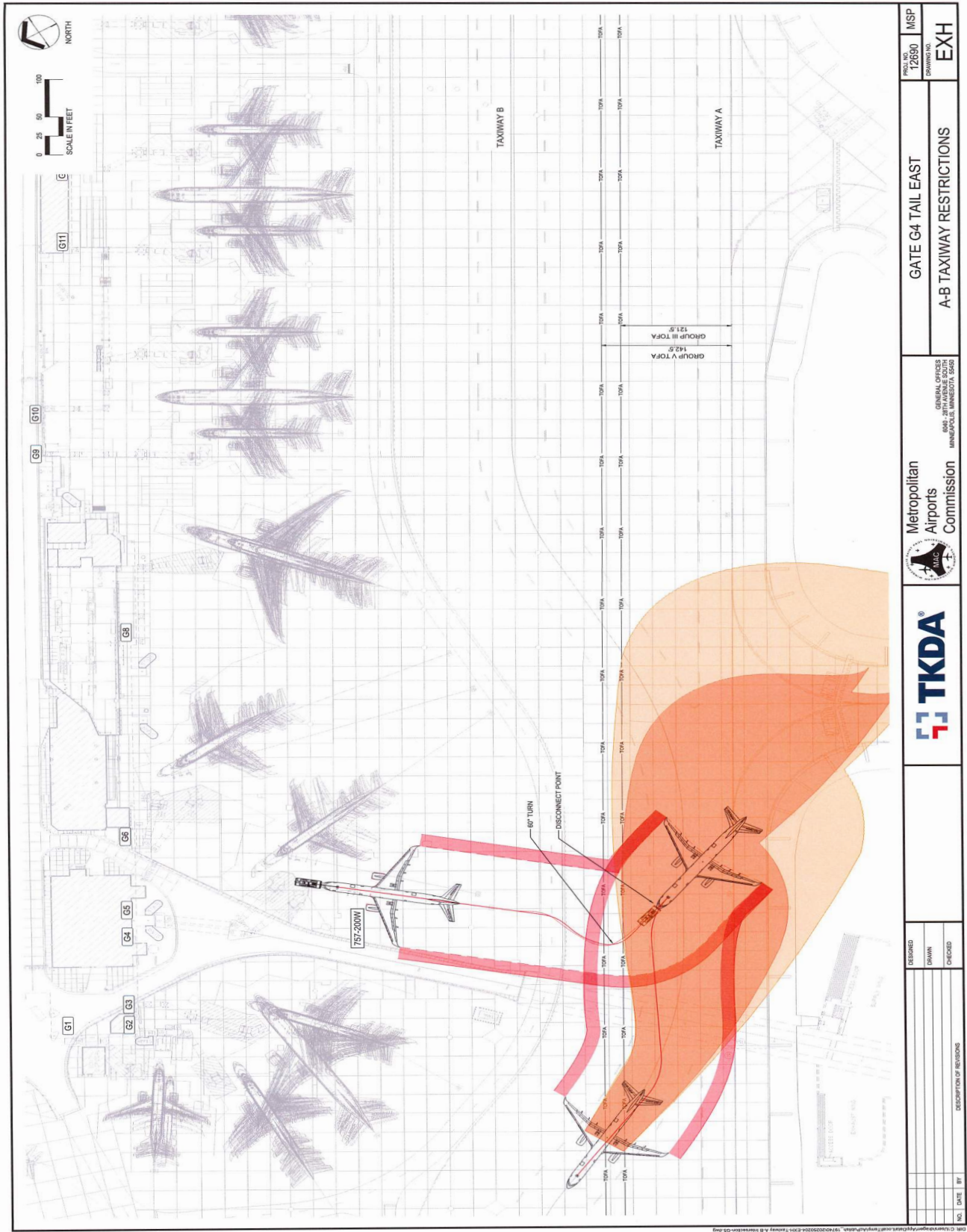
MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL



Original Date: 12/09/04

Revision Date: 07/08/25

MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL



Original Date: 12/09/04

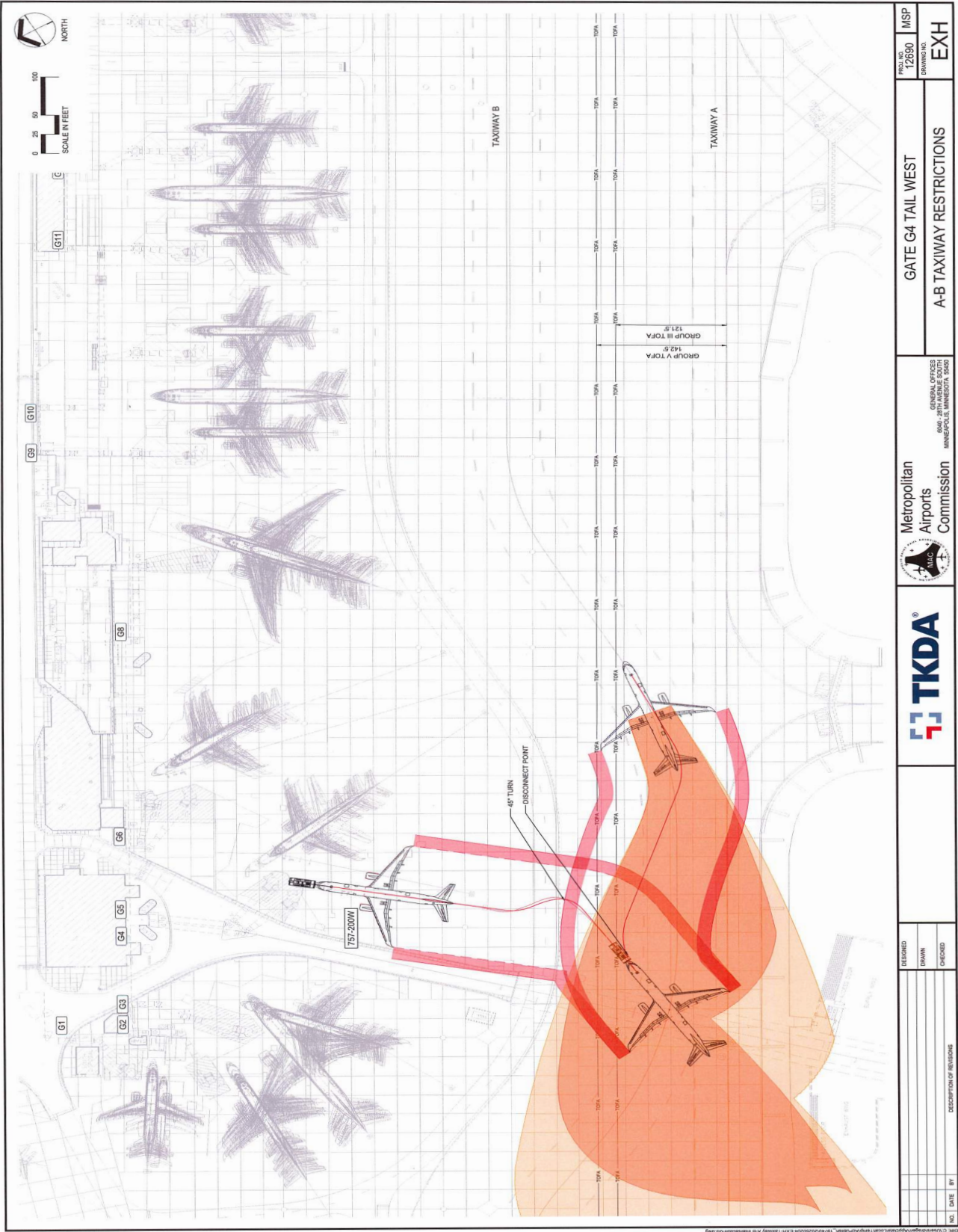
Revision Date: 07/08/25

Exhibit 500-13, page 6

FAA Acceptance: *Reid*  
Date: Jul 21 2025



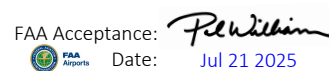
MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL



Original Date: 12/09/04

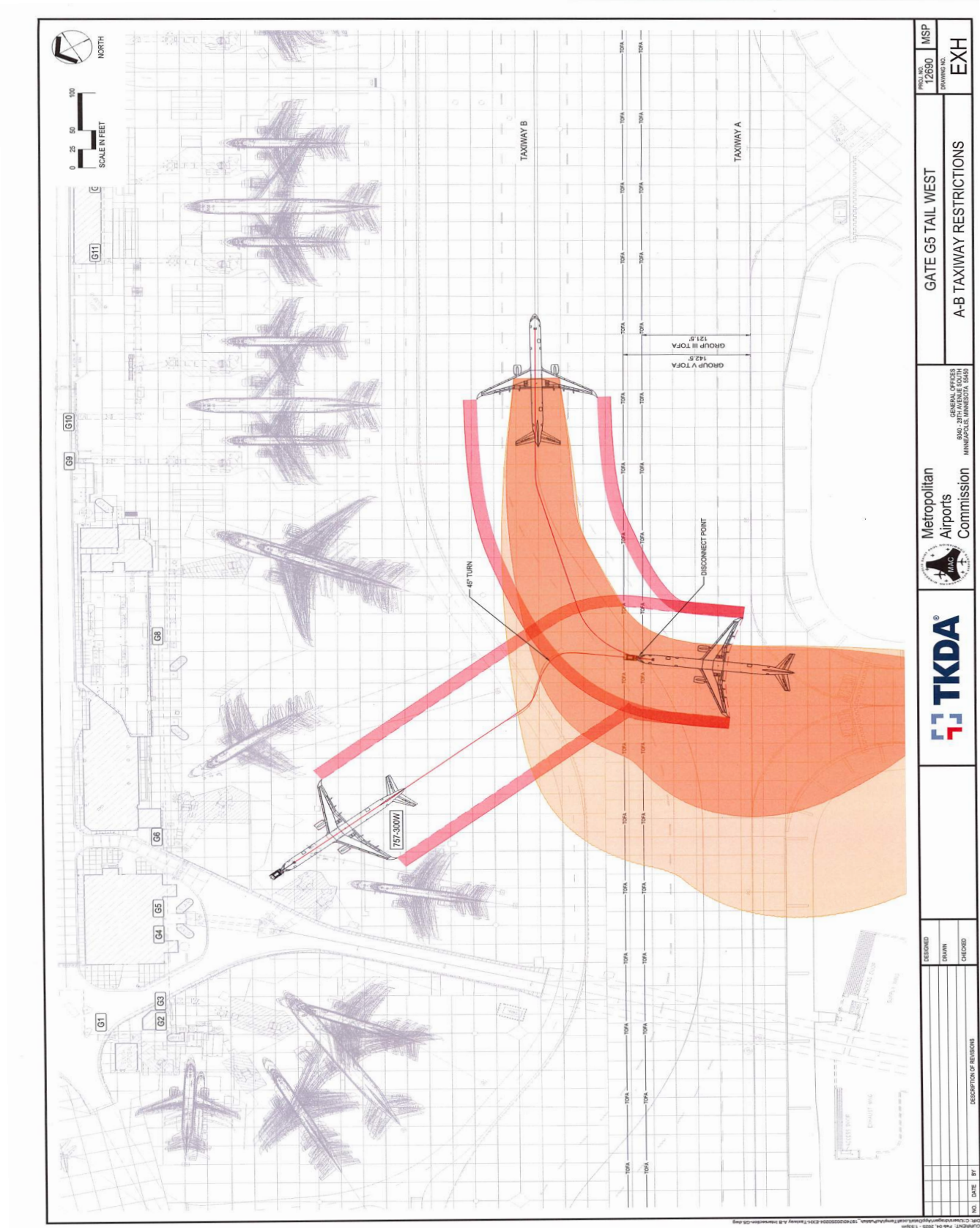
Revision Date: 07/08/25

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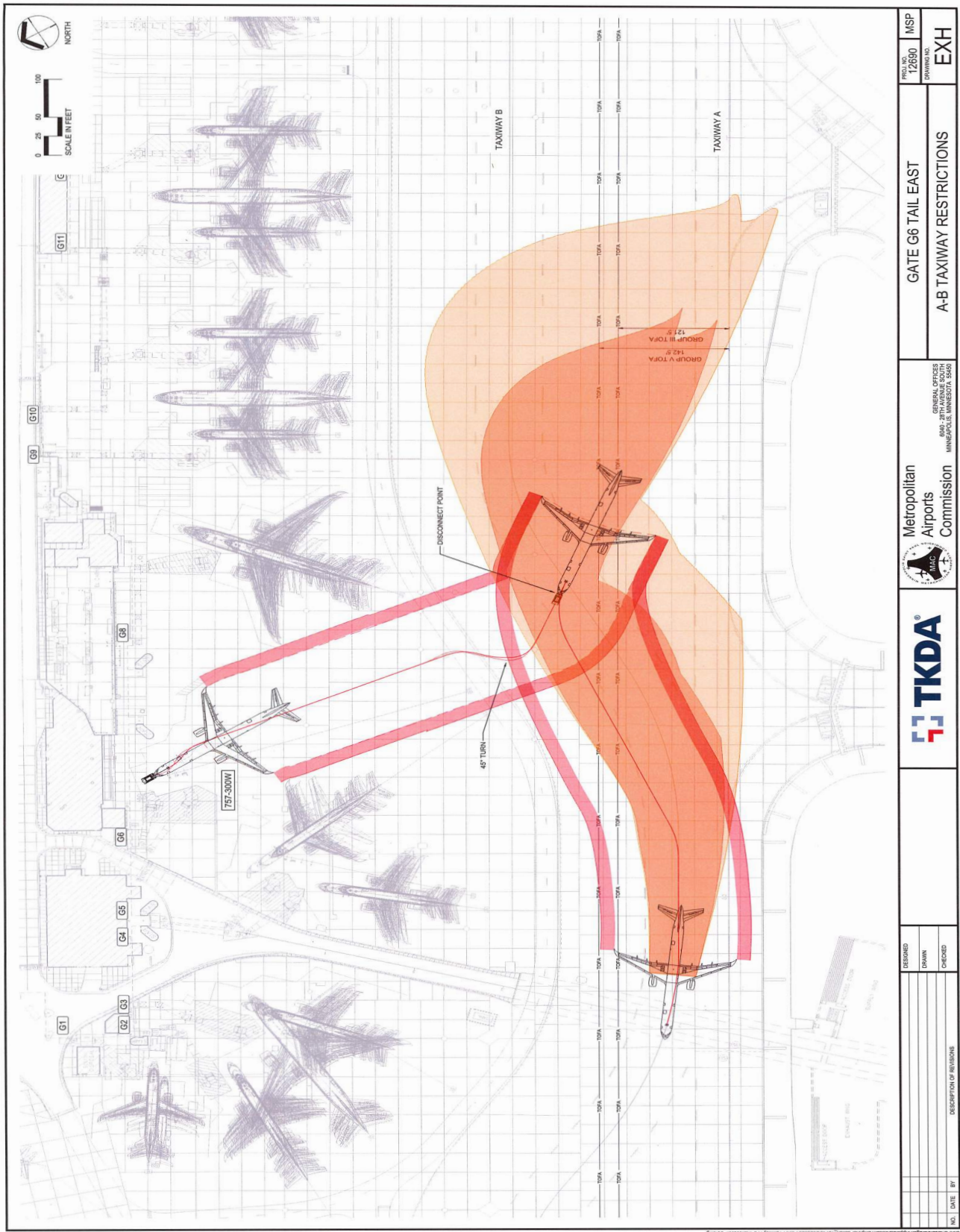
Original Date: 12/09/04

Revision Date: 07/08/25

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FAA Acceptance: *P. Williams*  
Date: Jul 21 2025

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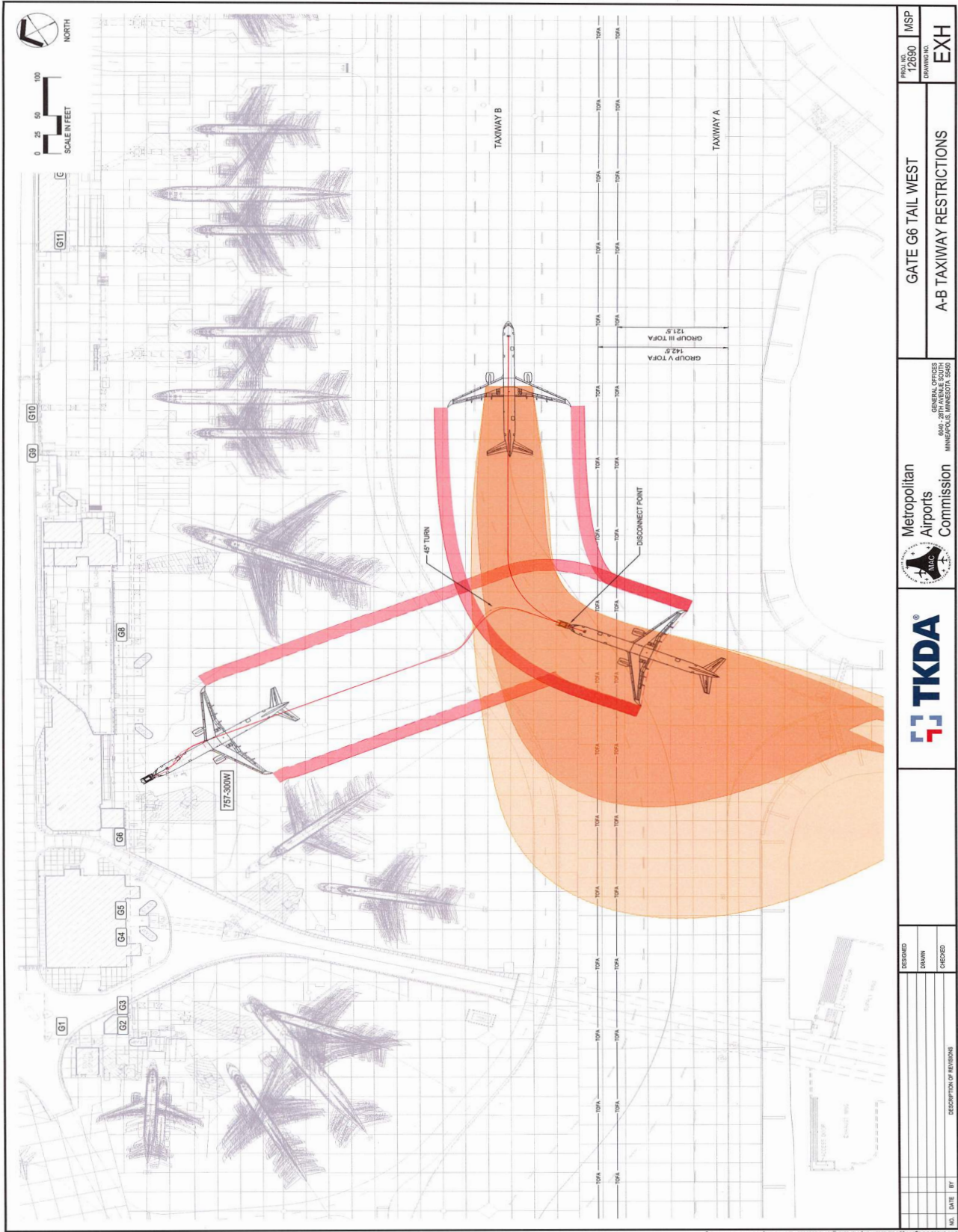


Original Date: 12/09/04

Revision Date: 07/08/25



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Original Date: 12/09/04

Revision Date: 07/08/25

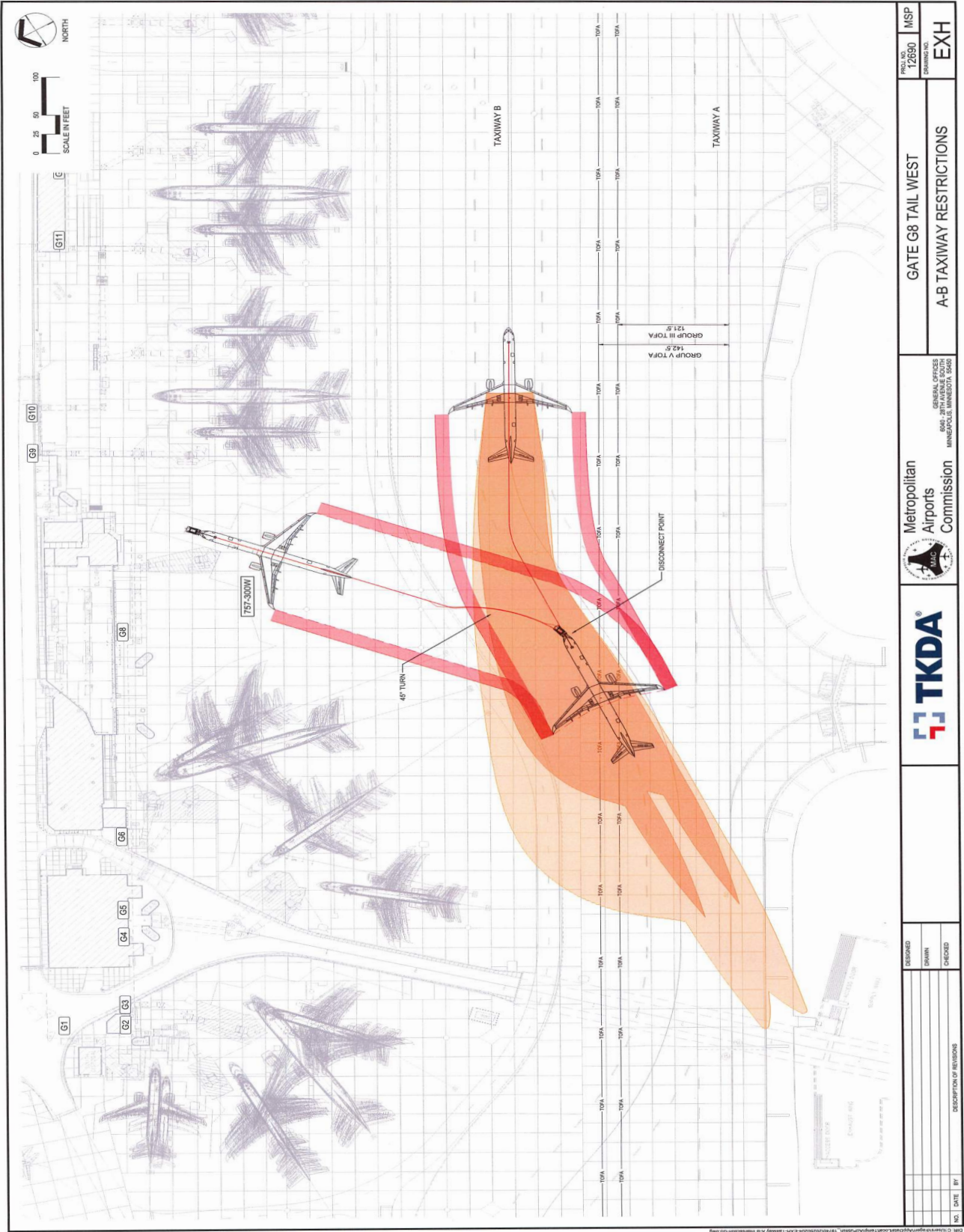
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FAA Acceptance: *ReWilliam*  
Date: Jul 21 2025





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Original Date: 12/09/04

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