

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: SID	Estimated Chart Date: 05/16/2024	APWS Task ID: B46C9089EAC74F75AA2AD81467062EFC	APWS Project ID: BEE9A4783EBE4340BBEA5B4391CB2132
Procedure: SID SNDRS THREE (RNAV)		Enroute: YES	Specialist: Sarmiento, April		Agreement Number:
Airport ID: KDTW			Airport City: DETROIT		State: MI
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			
<p>Procedure Comments: FULL AMENDMENT.</p> <p>PENDING AIRPORT DATA FOR KYIP. ACTIVE DATA FOR ALL OTHER AIRPORTS.</p> <p>WAIVERS (2): 1. TO NOT CHART IF ALTITUDE AT IF FOR RADAR VECTORS. 2. AFS-420 MEMO "WAIVER TO FAA ORDER 8260.58C PARAGRAPH 1-2-5.C.(3), MAXIMUM BANK ANGLE" DATED 01/31/2023.</p> <p>KYIP: RWY 27 CONTROLLING OBSTACLE 903 FT MSL TOWER (26-002998) LAT/LONG CHANGED FROM 421431.78N/0833411.47W TO 421431.80N/0833411.49W (MOVED 2.52 FT NORTHWEST); TAKEOFF MINIMUMS DID NOT CHANGE.</p> <p>KVLL: RWY 28 CONTROLLING OBSTACLES CHANGED FROM 940 FT MSL BLDG 423234.20N/0831235.50 (CLIMB GRADIENT), 1749 FT MSL TOWER 422858.00N/0831219.00W (CLIMB-TO ALTITUDE) TO 905 FT MSL BUILDING (26-003210) 423232.54N/0831234.07W; RETAINED CURRENT TAKEOFF MINIMUMS TO MATCH PUBLISHED ODP.</p> <p>KMTC: RWY 19 CLIMB GRADIENT INCREASED FROM 234 FT/NM TO 235 FT/NM. CONTROLLING OBSTACLE DID NOT CHANGE 1246 FT MSL TOWER (26-001410) 423312.00N/0825315.00W (4D).</p> <p>CONTACT: CASIMIR TABAKA, (405) 954-7931</p> <p>04/03/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 01/26/2024. DP ROUTE DESCRIPTION: KDTW TAKEOFF RWY 3L/3R CHANGE FIX NAME SWNDL TO SWNDL. J ZEDER 04/03/2024</p> <p>04/9/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 01/26/2024. BGHRT TRANSITION: CORRECTED SPELLING OF "KRNKO" TO "KNRKO" ON THE KNRKO TO BGHRT TRACK. J ZEDER 04/09/2024</p>					

QUALITY
16
CHECKED

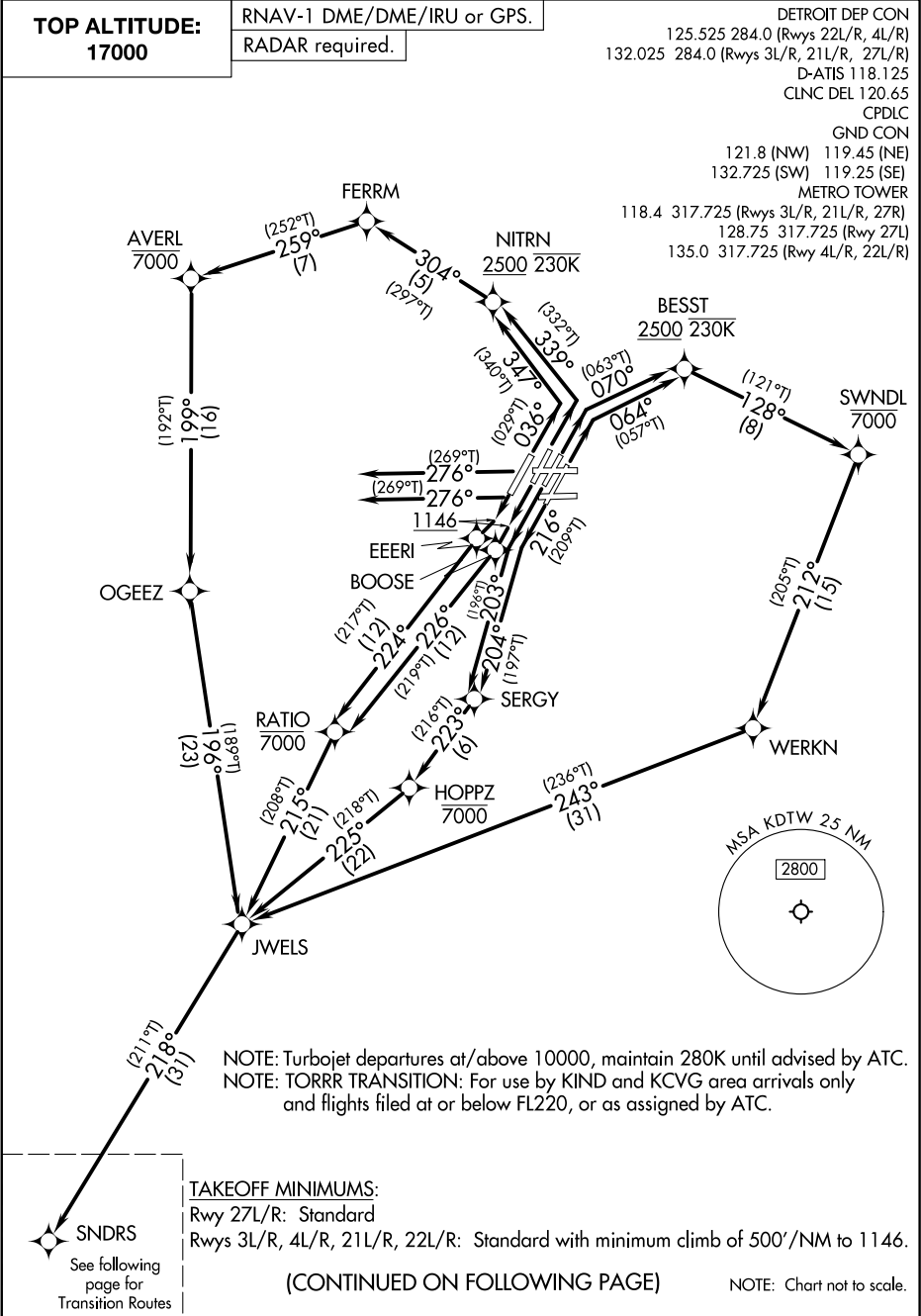
QUALITY
16
CHECKED

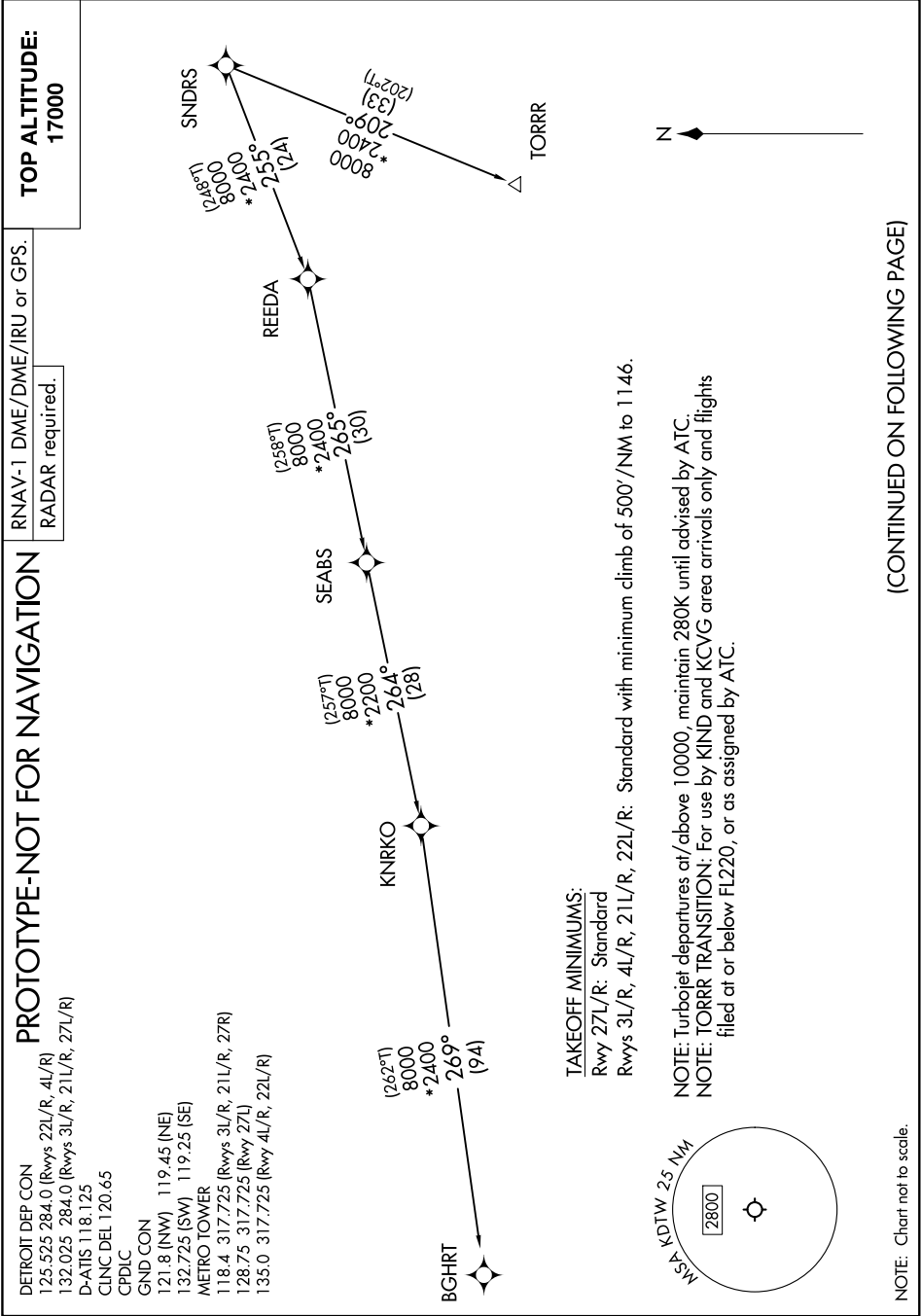
QUALITY
41
CHECKED

QUALITY
8
CHECKED

FIPC DME/DME FORM								
PROCEDURE: SNDRS THREE (RNAV) DEPARTURE			AIRPORT NAME: DETROIT METRO WAYNE COUNTY		AIRPORT ID: KDTW	SPECIAL CONTROL NO: BG-01-223-24		
FAC ID: SNDRS3		CITY: DETROIT			ST: MI	ORIG CHART DATE: 05/16/2024		
DFL TYPE: PROC/D	THIRD PARTY: <input type="checkbox"/> YES	EST. TIME ON SITE: 1.0	REIMB. NUMBER:		PTS TASK ID: B46C9089EAC74F75AA2AD81467062EFC			
PREFLIGHT NOTES								
REVIEWER: scott wiebe					DATE: 03/07/2024			
COMMENTS:					CHECK ONE: <input checked="" type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT			
							YES	NO
					CPV COMPLETE?		X	
PROCEDURE RESULTS								
INSPECTION DATE: 03/07/2024		CREW #: VN219	N #: N69	INSTRUMENT PROCEDURE STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT		ARINC CODING: <input type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT		
FLIGHT INSPECTOR SIGNATURE: scott wiebe @ 03/07/2024 18:27			PRINTED NAME: WIEBE, GREGORY SCOTT			NOTAM INITIATED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
FLIGHT INSPECTOR REMARKS: Procedure Satisfactory for GNSS operations, DME/DME awaiting approval by the applicable AJV Operations Support Group. RBS DME not available – NOTAM “12/186 RBS NAV DME U/S 2312121929-2512122000EST” in place								
DME/DME STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT		SPECIALIST SIGNATURE: steven s-ctr rager @ 03/19/2024 14:53			PRINTED NAME: Steven Rager			
SPECIALIST REMARKS: Procedure SAT for DME/DME/IRU NAV. All DME ESV's for legs flown recorded by Inspection Aircraft all other ESV's certified by TARGETS.								
IN-FLIGHT OBSTACLE REPORT								
OBSTRUCTION ID #:	COORDINATES OR LOCATION:		GNSS ALTITUDE (MSL):		BAROMETRIC ALTITUDE (MSL):		HEIGHT ABOVE GROUND LEVEL:	

FIPC DME/DME FORM								
PROCEDURE: SNDRS THREE (RNAV) DEPARTURE			AIRPORT NAME: DETROIT METRO WAYNE COUNTY		AIRPORT ID: KDTW	SPECIAL CONTROL NO: BG-01-223-24		
FAC ID: SNDRS3		CITY: DETROIT			ST: MI	ORIG CHART DATE: 05/16/2024		
DFL TYPE: PROC/D	THIRD PARTY: <input type="checkbox"/> YES	EST. TIME ON SITE: 1.0	REIMB. NUMBER:		PTS TASK ID: B46C9089EAC74F75AA2AD81467062EFC			
PREFLIGHT NOTES								
REVIEWER: scott wiebe					DATE: 03/07/2024			
COMMENTS:					CHECK ONE: <input checked="" type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT			
							YES	NO
					CPV COMPLETE?		X	
PROCEDURE RESULTS								
INSPECTION DATE: 03/07/2024		CREW #: VN219	N #: N69	INSTRUMENT PROCEDURE STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT		ARINC CODING: <input type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT		
FLIGHT INSPECTOR SIGNATURE: scott wiebe @ 03/07/2024 18:27			PRINTED NAME: WIEBE, GREGORY SCOTT			NOTAM INITIATED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
FLIGHT INSPECTOR REMARKS: Procedure Satisfactory for GNSS operations, DME/DME awaiting approval by the applicable AJV Operations Support Group. RBS DME not available – NOTAM “12/186 RBS NAV DME U/S 2312121929-2512122000EST” in place								
DME/DME STATUS: <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT		SPECIALIST SIGNATURE:			PRINTED NAME:			
SPECIALIST REMARKS:								
IN-FLIGHT OBSTACLE REPORT								
OBSTRUCTION ID #:	COORDINATES OR LOCATION:		GNSS ALTITUDE (MSL):		BAROMETRIC ALTITUDE (MSL):		HEIGHT ABOVE GROUND LEVEL:	







DEPARTURE ROUTE DESCRIPTION

SEE ADDITIONAL REQUIREMENTS ON AAUP.

TAKEOFF RUNWAY 3L: Climb on heading 036° to intercept course 070° to cross BESST at or above 2500 and at or below 230K, then on track 128° to cross SWNDL at or below 7000, then on track 212° to WERKN, then on track 243° to cross JWELS, thence....

TAKEOFF RUNWAY 3R: Climb on heading 036° to intercept course 064° to cross BESST at or above 2500 and at or below 230K, then on track 128° to cross SWNDL at or below 7000, then on track 212° to WERKN, then on track 243° to cross JWELS, thence....

TAKEOFF RUNWAY 4L: Climb on heading 036° to intercept course 347° to cross NITRN at or above 2500 and at or below 230K, then on track 304° to cross FERRM, then on track 259° to cross AVERL at or below 7000, then on track 199° to OGEEZ, then on track 196° to cross JWELS, thence....

TAKEOFF RUNWAY 4R: Climb on heading 036° to intercept course 339° to cross NITRN at or above 2500 and at or below 230K, then on track 304° to cross FERRM, then on track 259° to cross AVERL at or below 7000, then on track 199° to OGEEZ, then on track 196° to cross JWELS, thence....

TAKEOFF RUNWAY 21L: Climb on heading 216° to intercept course 204° to SERGY, then on track 223° to cross HOPPZ at or below 7000, then on track 225° to cross JWELS, thence....

TAKEOFF RUNWAY 21R: Climb on heading 216° to intercept course 203° to SERGY, then on track 223° to cross HOPPZ at or below 7000, then on track 225° to cross JWELS, thence....

TAKEOFF RUNWAY 22L: Climb on heading 216° to 1146, then direct BOOSE, then on track 226° to cross RATIO at or below 7000, then on track 215° to cross JWELS, thence....

TAKEOFF RUNWAY 22R: Climb on heading 216° to 1146, then direct EEERI, then on track 224° to cross RATIO at or below 7000, then on track 215° to cross JWELS, thence....

TAKEOFF RUNWAYS 27L/27R: Climb on heading 276° or as assigned by ATC, for RADAR vectors to JWELS, thence....

....on track 218° to SNDRS, then on (transition). Maintain 17000, expect filed altitude 10 minutes after departure.

BGHRT TRANSITION (SNDRS3.BGHRT):

TORRR TRANSITION (SNDRS3.TORRR):

PROTOTYPE-NOT FOR NAVIGATION



Federal Aviation Administration

Memorandum

Date: January 31, 2023

To: Instrument Flight Procedure Service Providers
Digitally signed by WADE
EK TERRELL
WADE EK TERRELL
Date: 2023.01.31 09:21:16
-06'00'

From: Wade E.K. Terrell, Manager, Flight Procedures and Airspace Group

Subject: Waiver to FAA Order 8260.58C paragraph 1-2-5.c.(3), Maximum bank angle

Background: The Performance Based Navigation (PBN) Aviation Rulemaking Committee (PARC) made a recommendation that the FAA adjust the turn parameters used in PBN instrument flight procedure (IFP) design to reflect modern avionics values. The Flight Procedures and Airspace Group analyzed current avionics specifications with the help of several FAA offices and RTCA SC-227 to identify the new bank angles necessary for current IFP design. The Flight Procedures and Airspace Group then conducted an Operational Safety Review (OSR) for this amendment to bank angle criteria. The outcome of the OSR was that no new hazard is introduced into the National Aerospace System (NAS).

Purpose: This memorandum waives FAA Order 8260.58C, United States Standard for Performance Based Navigation (PBN) Instrument Procedure Design, paragraph 1-2-5.c.(3) and authorizes use of a maximum bank angle of 23 degrees above FL195 up to FL245 and a maximum bank angle of 16 degrees above FL245.

This waiver remains in effect until rescinded. No additional waiver request action is required. Please direct all inquiries to Thomas J. Nichols, Standards Section Manager, Flight Procedures and Airspace Group at 405-954-1171 or thomas.j.nichols@faa.gov

1. FLIGHT PROCEDURE IDENTIFICATION:

**Detroit, MI (KDTW)
SNDRS (RNAV) SID**

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

Waiver required to not chart IF altitude at the IF for radar vectors (RV). Order 8260.46J Appendix E, Section 1, para 2m(3). "Document the minimum crossing altitude at the IF on RNAV Radar departure procedures as follows: CHART: MINIMUM CROSSING ALTITUDE AT (RNAV IF)-(Altitude)."

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

Adding unnecessary altitudes at the "IF" on procedures when they are not needed creates unnecessary workload based on the type of climb clearance that is issued. If the altitude restriction at the "IF" is to be adhered to for aircraft departing from DETROIT METRO WAYNE COUNTY AIRPORT (DTW), then after the aircraft is airborne ATC must issue "CLIMB VIA SID EXCEPT MAINTAIN (altitude)". With this procedure, it's unnecessary to add an altitude restriction at JWELS as the aircraft will be issued an initial departure clearance containing an altitude "AS ASSIGNED BY ATC" and will be receiving radar vectors to the waypoint JWELS to join the procedure. When aircraft depart, ATC must ensure they are at or above the Minimum Vectoring Altitudes (MVA), therefore the aircraft is always operating in airspace at an altitude above any terrain obstacles.

Adding an unnecessary altitude at JWELS creates workload for pilots as it could create a climb gradient higher than 200 feet per NM depending on where ATC vectors the aircraft before clearing them to JWELS and it could increase communication between ATC and pilots who will be asking questions about the altitude restriction, which ties up the radios. It also adds pilot workload once airborne when ATC issues a higher altitude by stating "CLIMB AND MAINTAIN (altitude)". The use of "CLIMB AND MAINTAIN (altitude)" deletes any published altitude restrictions, therefore pilots will be heads down deleting the restriction from the FMC.

AFS has approved other procedures within the NAS provided an evaluation has been completed. In this case, the evaluation has been accomplished and is contained under number 4 below.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

With a standard climb gradient of 200 ft/nm all surfaces are clear to IF (JWELS) which is 21.15 nm from the closest DER. The departure route description for all runways will provide instruction for the aircraft to conduct an uninterrupted climb to an altitude "AS ASSIGNED BY ATC" which is above the MVA from the airport to the IF.

ATC will ensure aircraft departing will cross the IF at or above 3000 ft MSL. An OCS with a starting elevation of 2000 ft (3000 MVA-1000 ROC) was evaluated for the route starting at JWELS and the surface was clear.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

Modifying all runway SIDs to replace the radar vectors segment with RNAV OTG would be incompatible with procedure efficiency in a constrained airspace and cause environmental issues and delays.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

Central Service Area PBN FAA and NATCA Leads
ZOB ARTCC
D21 TRACON
Detroit Metro Tower

7. SUBMITTED BY:

DATE	OFFICE IDENTIFICATION	TITLE
1/26/2024	AJV-A432	MGR

SIGNATURE

Digitally signed by
CASIMIR L TABAKA
Jan 26, 2024

8. FLIGHT STANDARDS ACTIONS:

☐ **APPROVED** ☐ **DISAPPROVED** ☐ **NOT REQUIRED**

COMMENTS:

DATE

ROUTING SYMBOL

SIGNATURE

SNDERS TWO DEPARTURE (RNAV) Departure Routes

DETROIT, MICHIGAN

**TOP ALTITUDE:
17000**

D-ATIS 118.125

CLNC DEL 120.65

CPDLC

GND CON

121.8 (NW) 119.45 (NE)

132.725 (SW) 119.25 (SE)

METRO TOWER

118.4 317.725 (Rwys 3L/R, 21L/R, 27R)

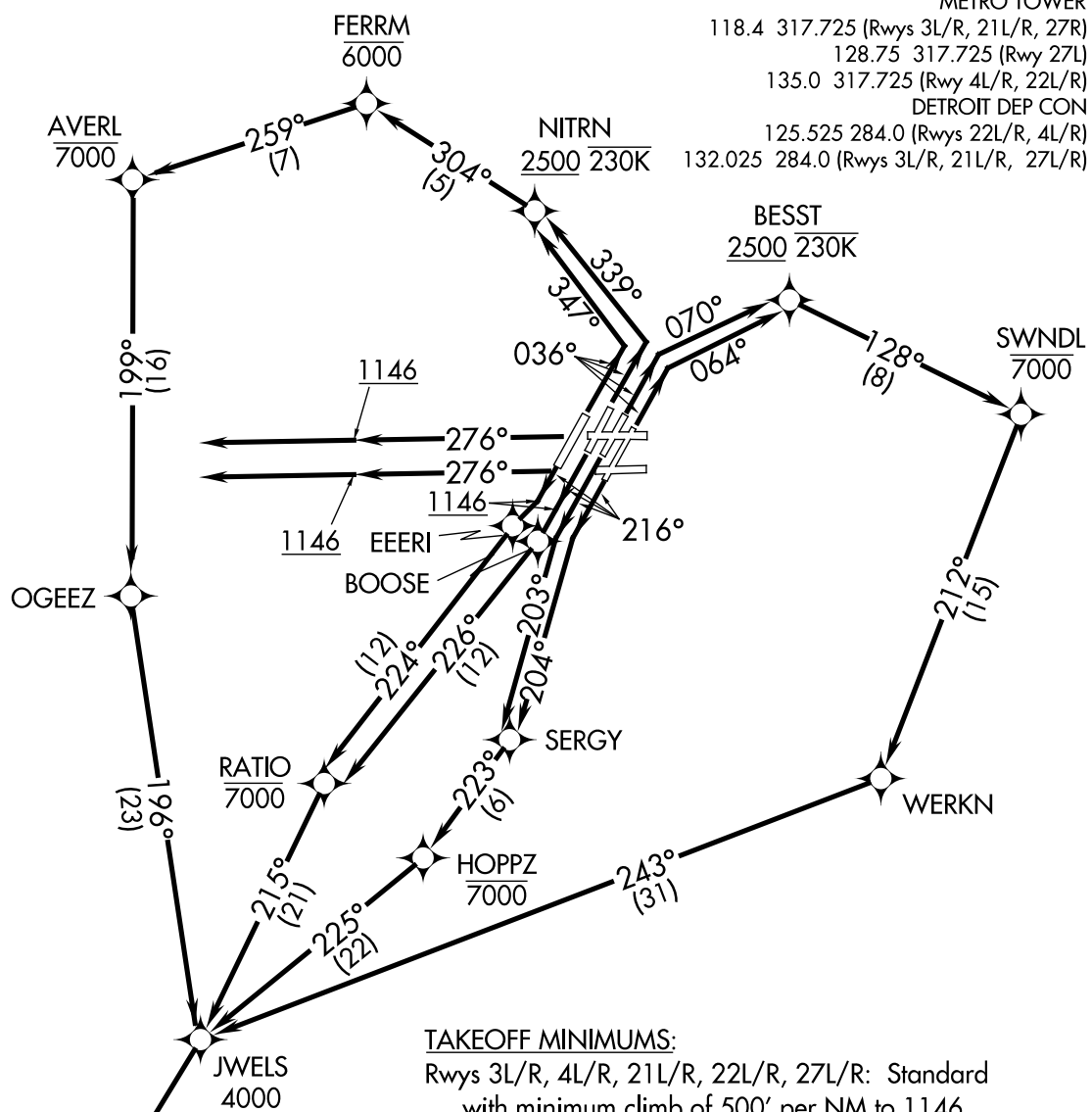
128.75 317.725 (Rwy 27L)

135.0 317.725 (Rwy 4L/R, 22L/R)

DETROIT DEP CON

125.525 284.0 (Rwys 22L/R, 4L/R)

132.025 284.0 (Rwys 3L/R, 21L/R, 27L/R)



NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: Turbojet departures at/above 10000, maintain 280K until advised by ATC.

NOTE: TORRR TRANSITION: For use by KIND and KCVG area arrivals only
and flights filed at or below FL220, or as assigned by ATC.NOTE: If unable to accept 500' per NM climb rate,
advise clearance delivery on initial contact.

SNDRS

See following
page for
Transition Routes

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-1, 20 APR 2023 to 18 MAY 2023

EC-1, 20 APR 2023 to 18 MAY 2023

SNDERS TWO DEPARTURE (RNAV) Departure Routes

DETROIT, MICHIGAN



DEPARTURE ROUTE DESCRIPTION

NOTE: See additional requirements in RNAV departure AAUP.

TAKEOFF RUNWAY 3L: Climb on heading 036° to intercept course 070° to cross BESST at or above 2500 and at or below 230K, then on track 128° to cross SWNDL at or below 7000, then on track 212° to WERKN, then on track 243° to cross JWELS at or above 4000, thence...

TAKEOFF RUNWAY 3R: Climb on heading 036° to intercept course 064° to cross BESST at or above 2500 and at or below 230K, then on track 128° to cross SWNDL at or below 7000, then on track 212° to WERKN, then on track 243° to cross JWELS at or above 4000, thence...

TAKEOFF RUNWAY 4L: Climb on heading 036° to intercept course 347° to cross NITRN at or above 2500 and at or below 230K, then on track 304° to cross FERRM at or below 6000, then on track 259° to cross AVERL at or below 7000, then on track 199° to OGEEZ, then on track 196° to cross JWELS at or above 4000, thence...

TAKEOFF RUNWAY 4R: Climb on heading 036° to intercept course 339° to cross NITRN at or above 2500 and at or below 230K, then on track 304° to cross FERRM at or below 6000, then on track 259° to cross AVERL at or below 7000, then on track 199° to OGEEZ, then on track 196° to cross JWELS at or above 4000, thence....

TAKEOFF RUNWAY 21L: Climb on heading 216° to intercept course 204° to SERGY, then on track 223° to cross HOPPZ at or below 7000, then on track 225° to cross JWELS at or above 4000, thence....

TAKEOFF RUNWAY 21R: Climb on heading 216° to intercept course 203° to SERGY, then on track 223° to cross HOPPZ at or below 7000, then on track 225° to cross JWELS at or above 4000, thence....

TAKEOFF RUNWAY 22L: Climb on heading 216° to 1146, then direct BOOSE, then on track 226° to cross RATIO at or below 7000, then on track 215° to cross JWELS at or above 4000, thence....

TAKEOFF RUNWAY 22R: Climb on heading 216° to 1146, then direct EEERI, then on track 224° to cross RATIO at or below 7000, then on track 215° to cross JWELS at or above 4000, thence....

TAKEOFF RUNWAYS 27L/27R: Climb on heading 276° to 1146, then on heading 276° or as assigned for RADAR vectors to cross JWELS at or above 4000, thence....

....on track 218° to SNDRS, then on (transition). Maintain 17000 or as assigned by ATC, expect filed altitude 10 minutes after departure.

BGHRT TRANSITION (SNDRS2.BGHRT):

TORRR TRANSITION (SNDRS2.TORRR):

EC-1, 20 APR 2023 to 18 MAY 2023

EC-1, 20 APR 2023 to 18 MAY 2023

CURRENT

EC-1, 20 APR 2023 to 18 MAY 2023

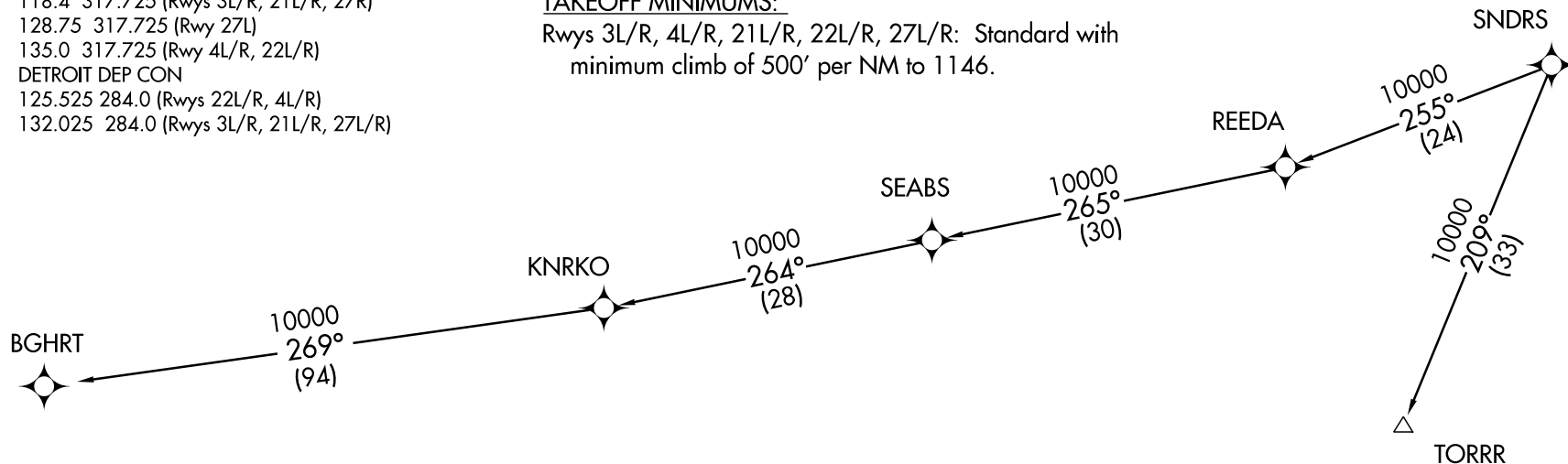
SNDRS TWO DEPARTURE (RNAV) Transition Routes
(SNDRS2.SNDRS) 15AUG19
DETROIT, MICHIGAN
DETROIT METRO WAYNE COUNTY (DTW)

D-ATIS 118.125
CLNC DEL 120.65
CPDLC
GND CON
121.8 (NW) 119.45 (NE)
132.725 (SW) 119.25 (SE)
METRO TOWER
118.4 317.725 (Rwys 3L/R, 21L/R, 27R)
128.75 317.725 (Rwy 27L)
135.0 317.725 (Rwy 4L/R, 22L/R)
DETROIT DEP CON
125.525 284.0 (Rwys 22L/R, 4L/R)
132.025 284.0 (Rwys 3L/R, 21L/R, 27L/R)

TAKEOFF MINIMUMS:

Rwys 3L/R, 4L/R, 21L/R, 22L/R, 27L/R: Standard with minimum climb of 500' per NM to 1146.

TOP ALTITUDE:
17000



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet departures at/above 10000, maintain 280K until advised by ATC.
NOTE: TORRR TRANSITION: For use by KIND and KCVG area arrivals only and flights filed at or below FL220, or as assigned by ATC.
NOTE: If unable to accept 500' per NM climb rate, advise clearance delivery on initial contact.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

(SNDRS2.SNDRS) 21112 AL-119 (FAA)
SNDRS TWO DEPARTURE (RNAV) Transition Routes
DETROIT METRO WAYNE COUNTY (DTW)
DETROIT, MICHIGAN

EC-1, 20 APR 2023 to 18 MAY 2023

ATTENTION ALL USERS PAGE (AAUP)

SIMULTANEOUS RNAV DEPARTURES

The purpose of this briefing is to provide guidance, safe operating practices, and phraseology that will help ensure heightened awareness when conducting parallel RNAV departures at the Detroit Metro Wayne County Airport (DTW). Where applicable, pilots should comply with established company procedures for RNAV operations.

1. **PREFLIGHT:** Expect clearance for RNAV Standard Instrument Departure (SID), if capable of terminal RNAV procedures. If unable to accept the assigned RNAV SID, advise Clearance Delivery on initial contact. Upon assignment of an RNAV SID, crosscheck the charted RNAV SID with the aircraft navigation system against the ATC clearance. Consider the following cross items:
 - Ensure correct departure runway is loaded
 - Ensure all transitions are loaded correctly
 - Ensure sequence of waypoints match the appropriate charts
 - Use the LEGS page to verify routing (for navigation systems with ROUTE and LEGS pages)
 - Ensure altitude set in the altitude window matches the TOP ALTITUDE of the SID (unless amended by ATC)
 - Do not modify or manually construct RNAV procedures
 - Advise ATC prior to takeoff if unable verify correct loading or if unable to comply with the SID
2. **BEFORE TAKEOFF:** Ensure the departure runway assigned on taxi is depicted by the navigation system.
 - Verify all modifications, including runway changes, in the navigation system with the RNAV SID
 - Verify aircraft symbol relative to the runway symbol, lateral track, and depicted route agree with the ATC clearance (electronic navigation map displays)
3. **LINE UP/TAKEOFF:** Expect a takeoff clearance that will include "RNAV to" the first waypoint on the SID, or a heading. If issued a heading, do not delete the SID from the navigation system.
 - Clearance: "Delta 123, RNAV to SAAMS, Runway 22L, Cleared for Takeoff"
 - Response: "Delta 123, RNAV to SAAMS, Runway 22L, Cleared for Takeoff"
 - Verify the correct runway and SID are loaded and the correct lateral navigation mode is available and ready for use after takeoff
 - If the takeoff clearance does not match the planned/loaded procedure, request an initial heading from tower or refuse the takeoff clearance until the discrepancy is resolved.
4. **AFTER TAKEOFF:** Unless issued a heading, engage lateral navigation flight guidance as soon as practical and fly the departure precisely.
 - Parallel RNAV departures must not encroach on the airspace between parallel runway centerlines without specific ATC clearance
 - When possible, track the runway centerline until reaching the departure end of runway
 - Strict compliance with the lateral and vertical tracks and charted speed restrictions is imperative
 - Once established on the procedure, maintain route centerline, as depicted by onboard lateral navigation indicators and/or flight guidance
 - Manually intervene if necessary, to stay on track to avoid transgressing in the direction of a parallel runway, track, or aircraft
 - If unable to comply with the SID profile, either laterally or vertically, immediately notify ATC

(CONTINUED ON FOLLOWING PAGE)

EC-1, 05 OCT 2023 to 02 NOV 2023

EC-1, 05 OCT 2023 to 02 NOV 2023

ATTENTION ALL USERS PAGE (AAUP)

(CONTINUED FROM PREVIOUS PAGE)

5. **SPECIFIC INFORMATION:** Runway assignments will be issued on initial contact with Ground Control and will be based on traffic conditions, runway closures, and other operational requirements.

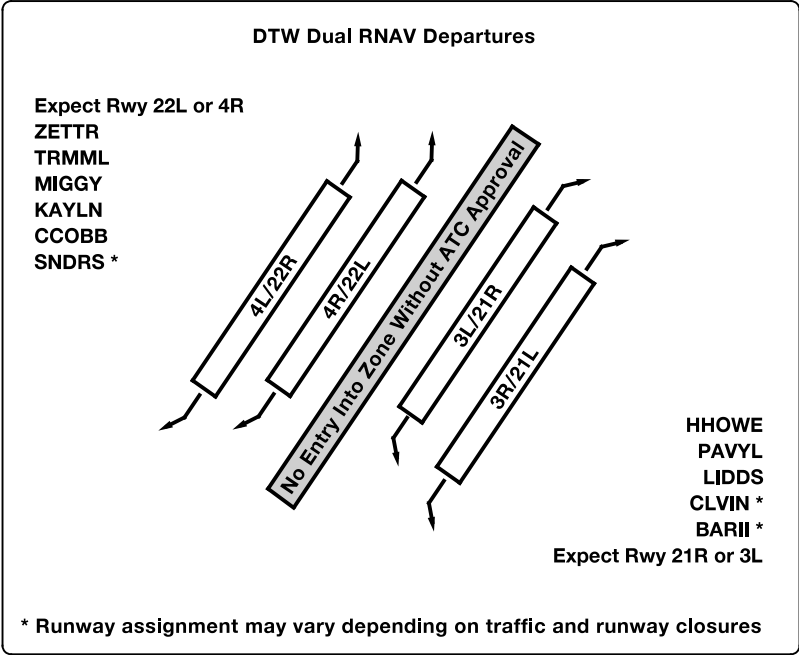
For planning purposes, pilots can anticipate a runway assignment based upon the information below.

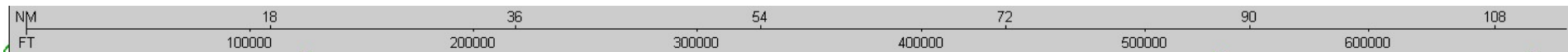
Runway Assignment for Dual Departure Operations

Departing Runways 22L/R, 21L/R
SNDRS, CCOBB, KAYLN, MIGGY, TRMML, ZETTR - Expect Runway 22L
HHOWE, PAVYL, LIDDS, BARII, CLVIN - Expect Runway 21R

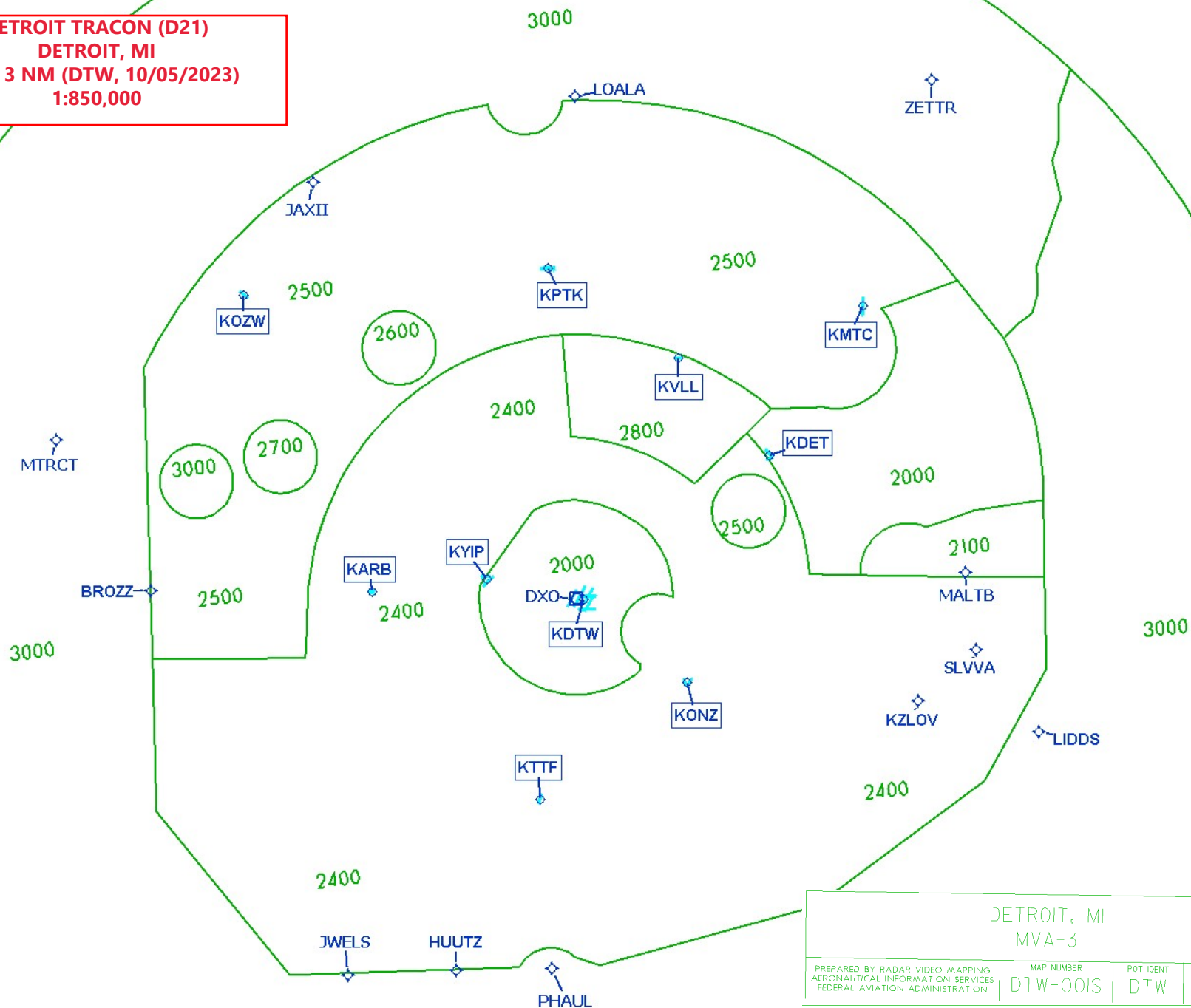
Departing Runways 4L/R, 3L/R
SNDRS, CCOBB, KAYLN, MIGGY, TRMML, ZETTR - Expect Runway 04R
HHOWE, PAVYL, LIDDS, BARII, CLVIN - Expect Runway 03L

Departing Runways 27L/R (not depicted below)
KAYLN, MIGGY, TRMML, ZETTR, HHOWE - Expect Runway 27R
CCOBB, SNDRS, BARII, CLVIN, LIDDS, PAVYL - Expect Runway 27L





DETROIT TRACON (D21)
DETROIT, MI
MVA 3 NM (DTW, 10/05/2023)
1:850,000



DETROIT, MI
MVA-3

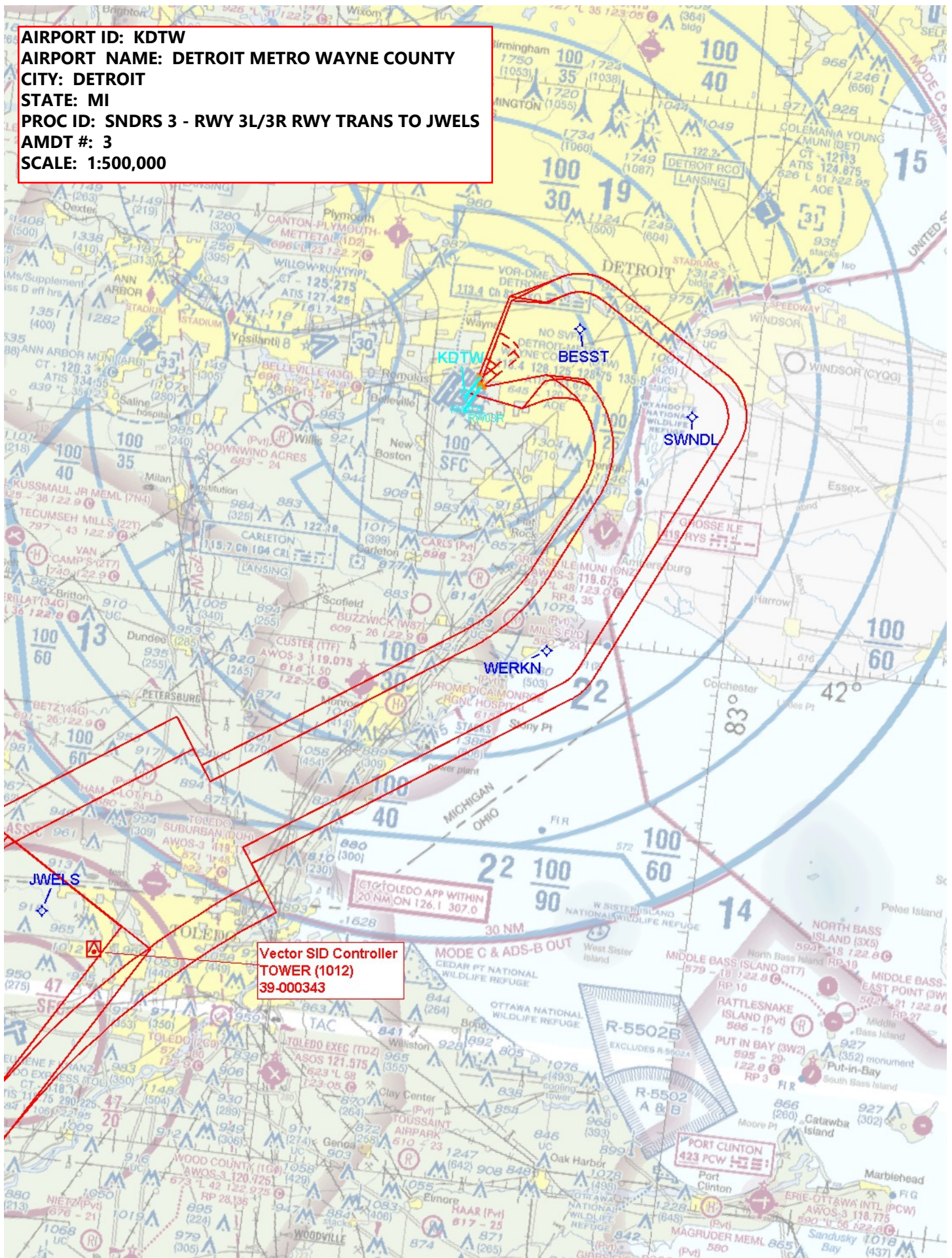
PREPARED BY RADAR VIDEO MAPPING
AERONAUTICAL INFORMATION SERVICES
FEDERAL AVIATION ADMINISTRATION

MAP NUMBER
DTW-001S

POT IDENT
DTW

MAP DATE
10-05-23

AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 3L/3R RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:500,000

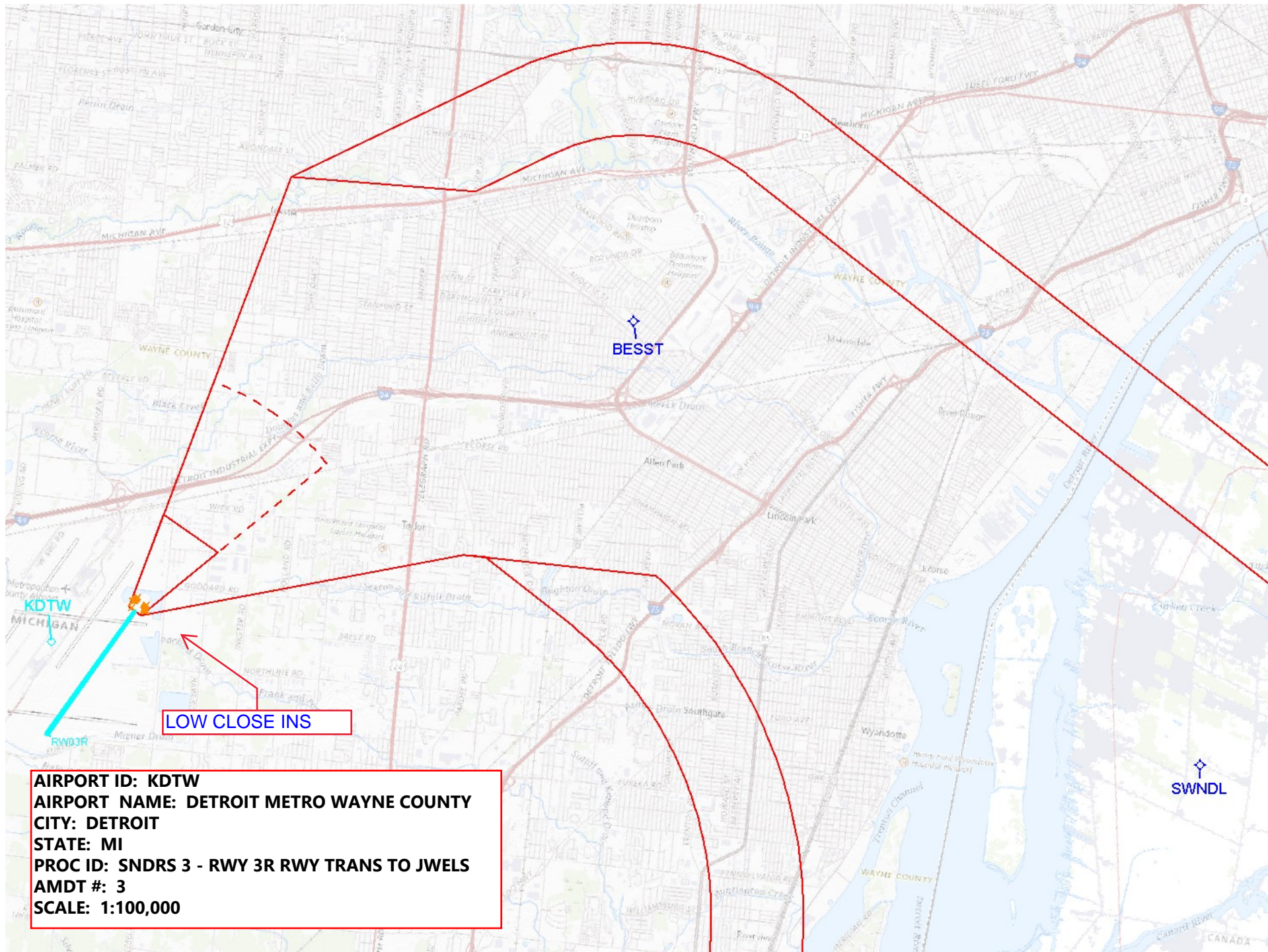


LOW CLOSE IN

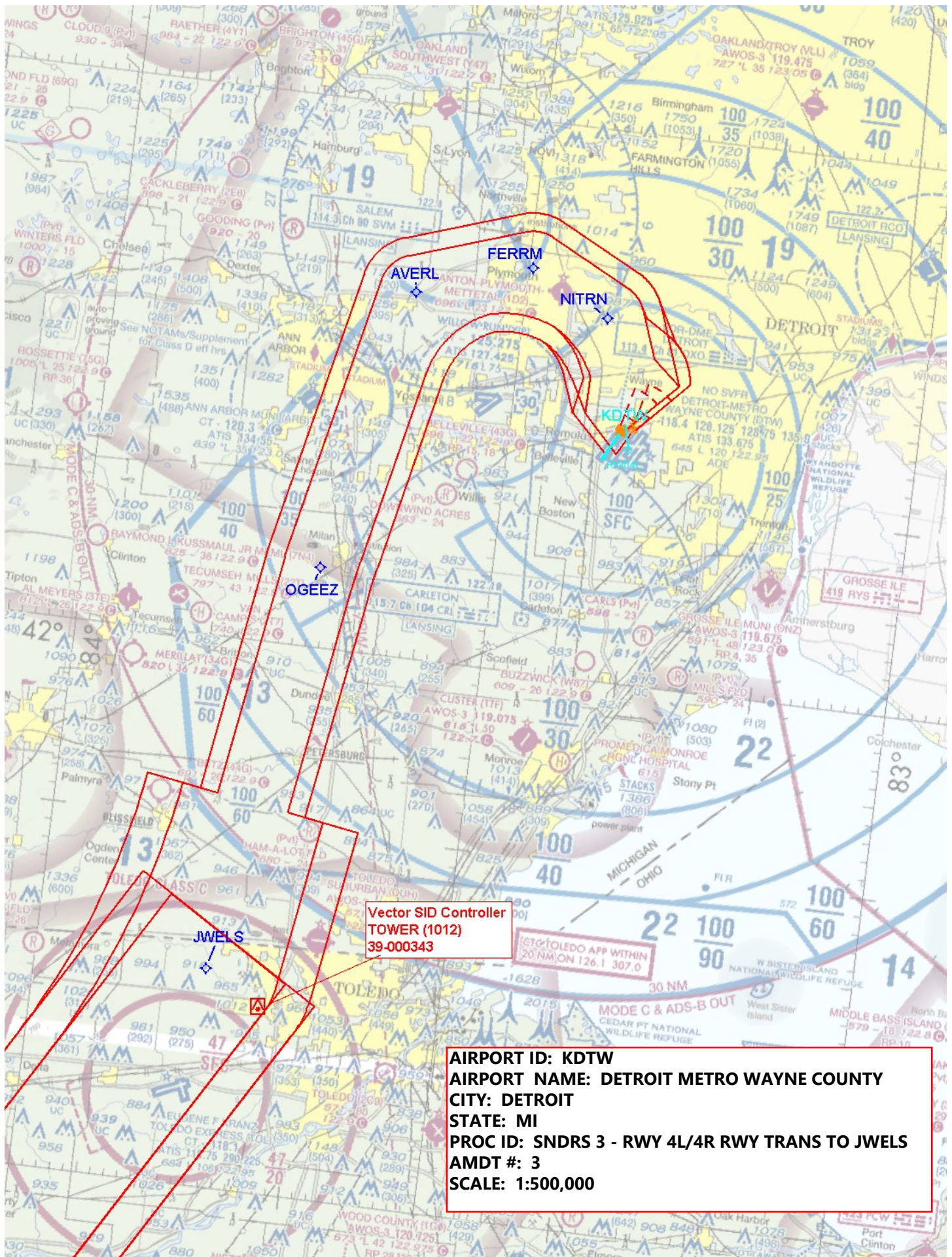
BESST

SWNDL

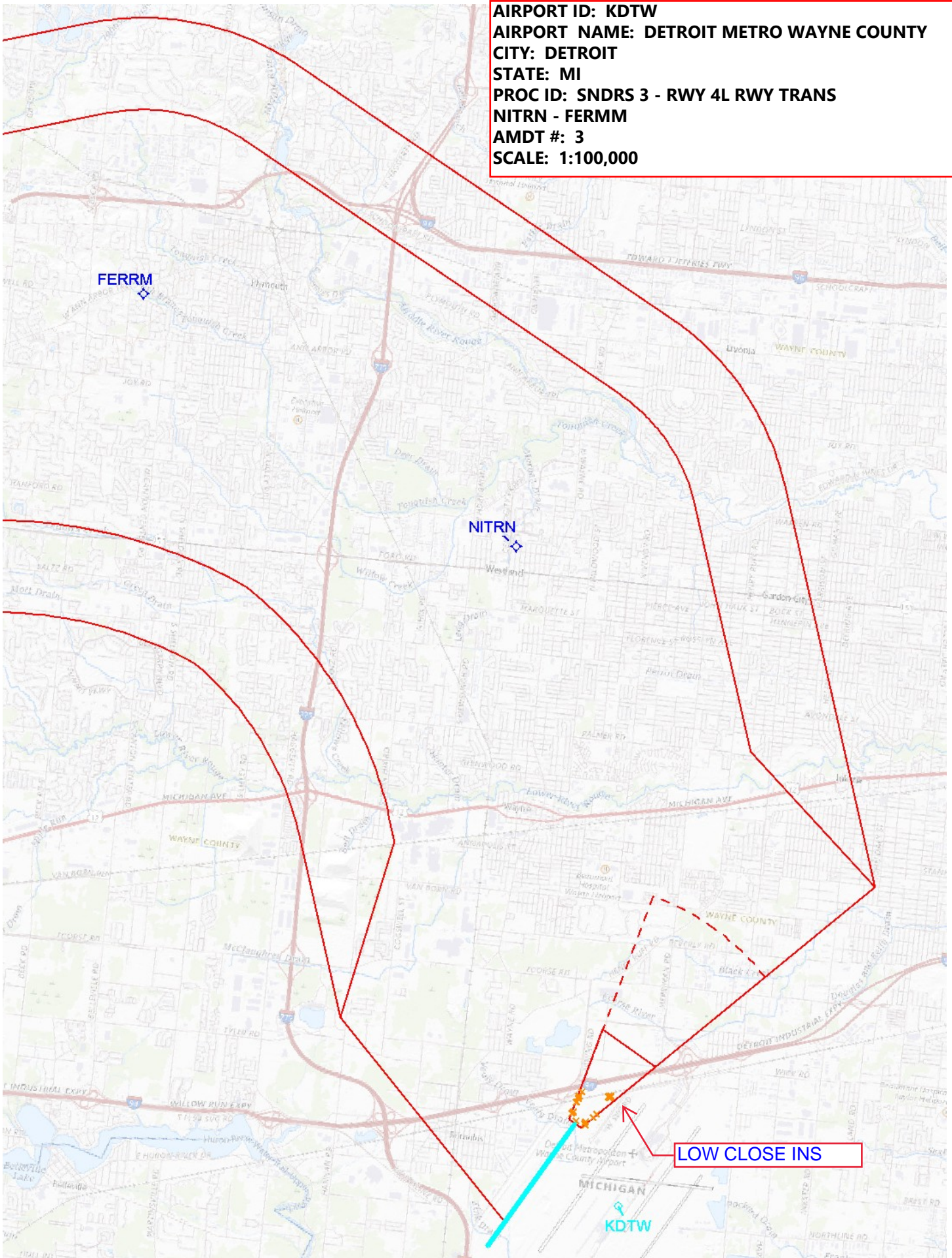
AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 3L RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:100,000



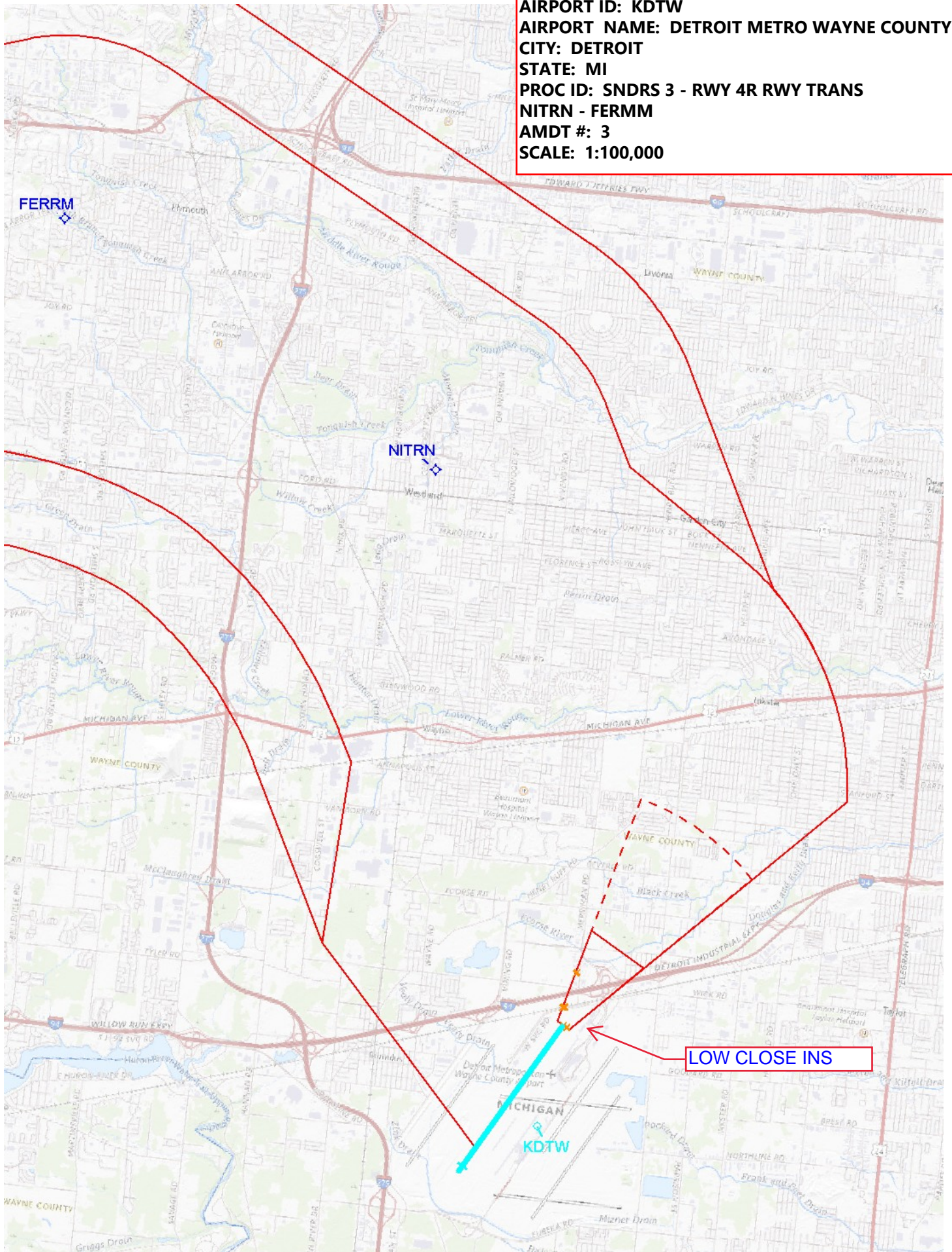
AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 3R RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:100,000



AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 4L RWY TRANS
NITRN - FERMM
AMD# #: 3
SCALE: 1:100,000



AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 4R RWY TRANS
NITRN - FERMM
AMDT #: 3
SCALE: 1:100,000

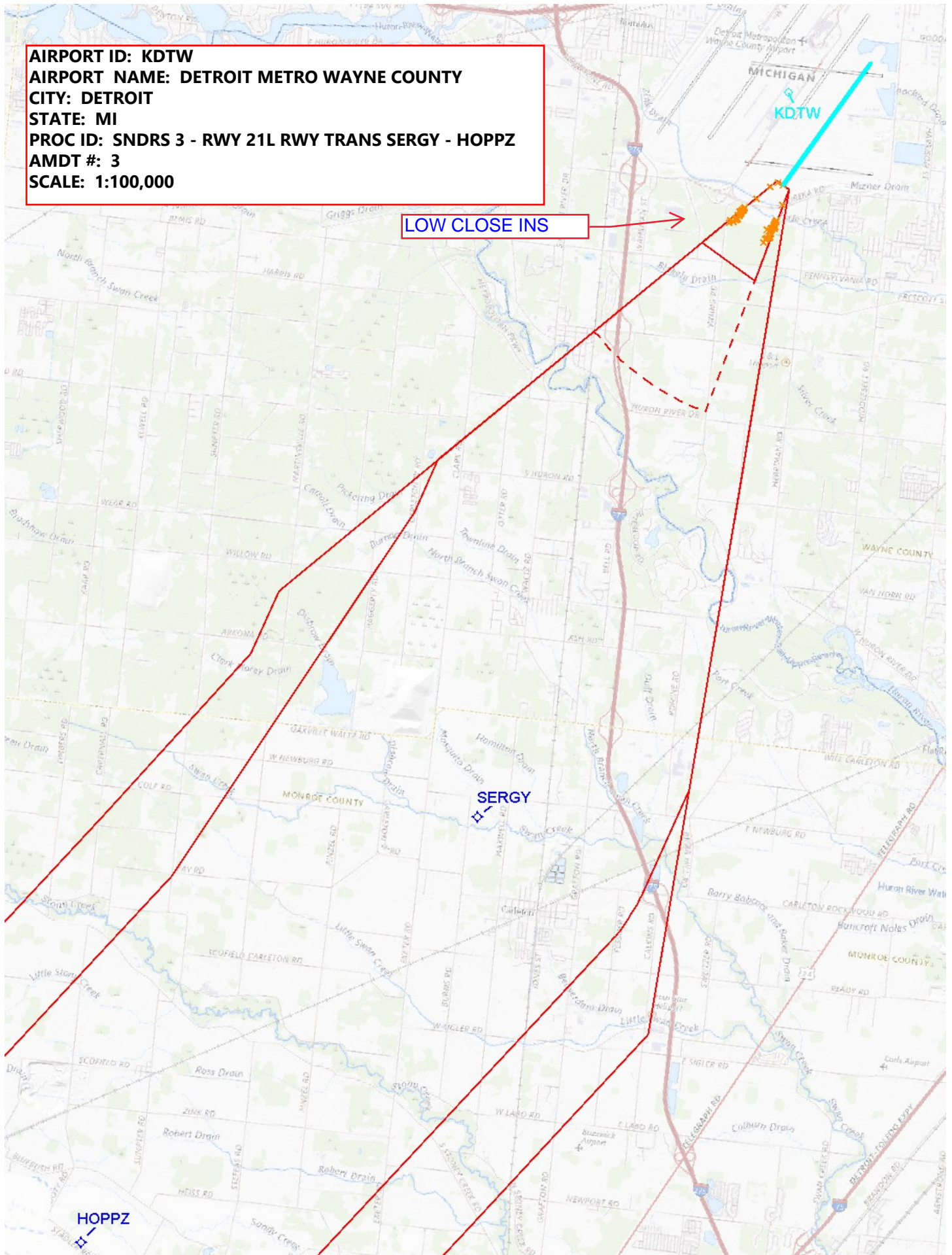


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 21L/21R RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:500,000

The chart displays a flight path from Detroit Metro Wayne County (KDTW) to Toledo Express (TOL). The path is marked with a red line and includes various airports and navigation aids. Key airports shown include Toledo Express (TOL), Toledo Executive (TOL), and Toledo Express (TOL). The chart also shows the Vector SID Controller Tower (1012) at 39-000343. The scale is 1:500,000.

AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 21L RWY TRANS SERGY - HOPZ
AMD# #: 3
SCALE: 1:100,000

LOW CLOSE INS

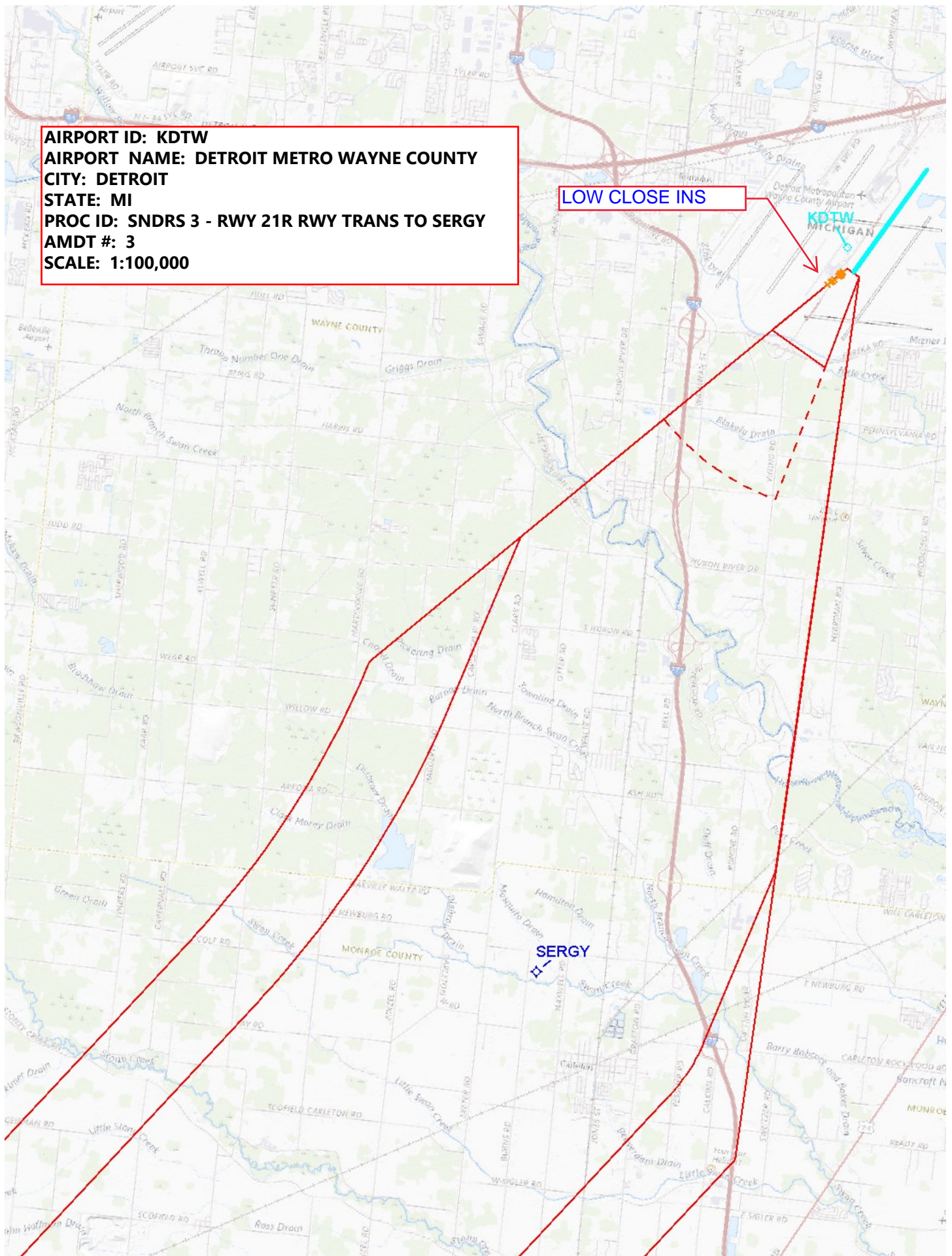


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 21R RWY TRANS TO SERGY
AMDT #: 3
SCALE: 1:100,000

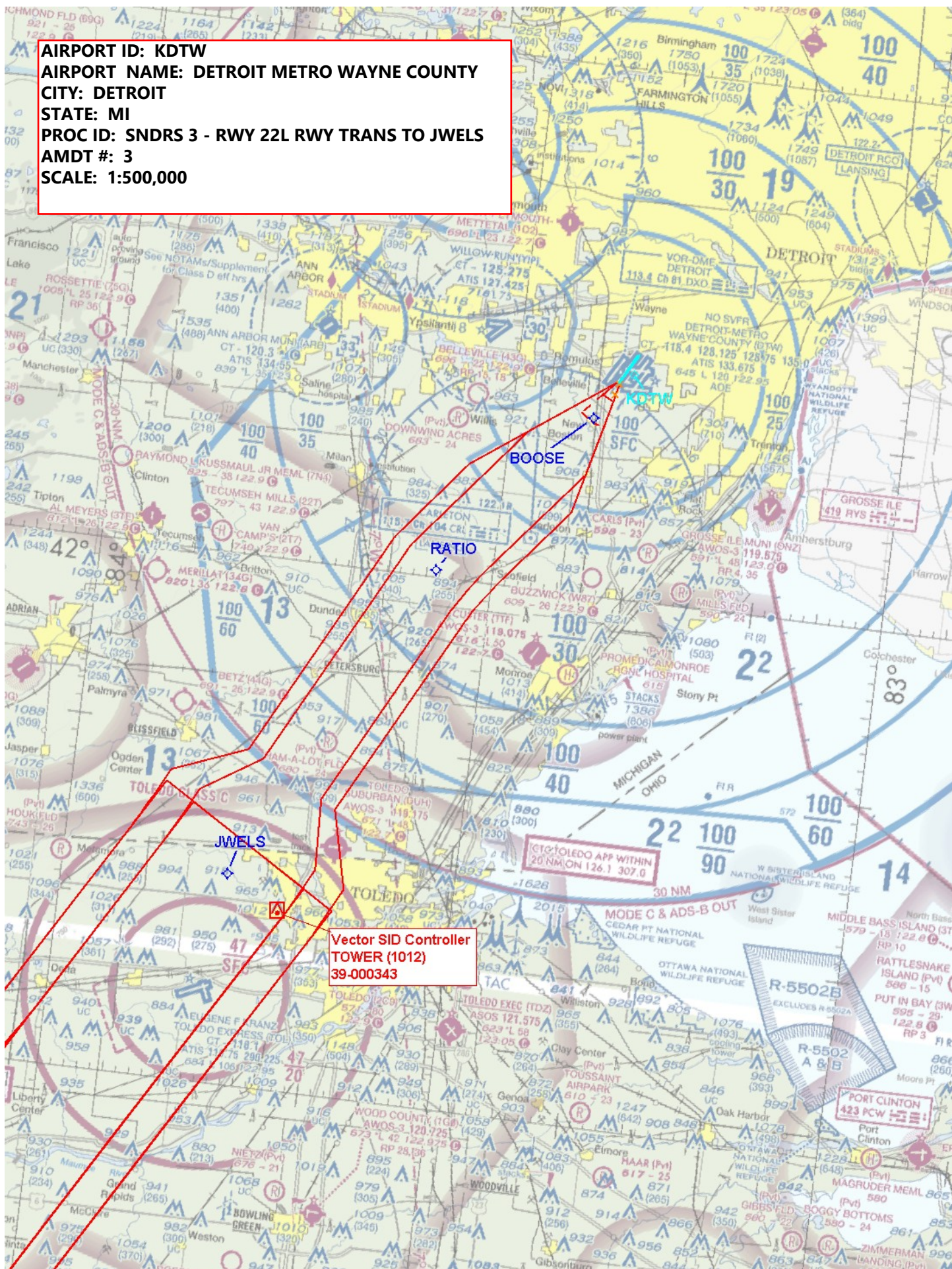
LOW CLOSE INS

KDTW
MICHIGAN

SERGY

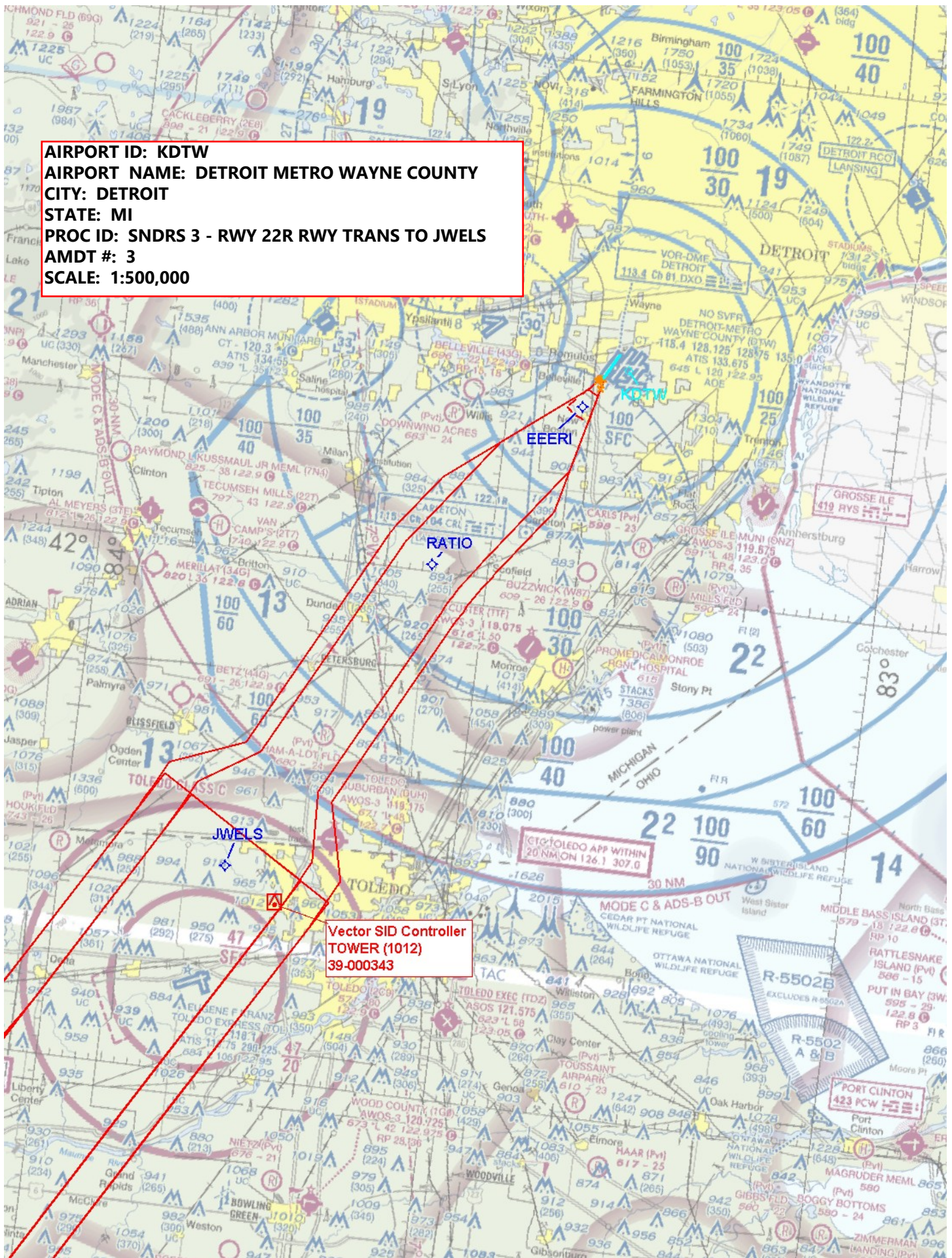


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 22L RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:500,000

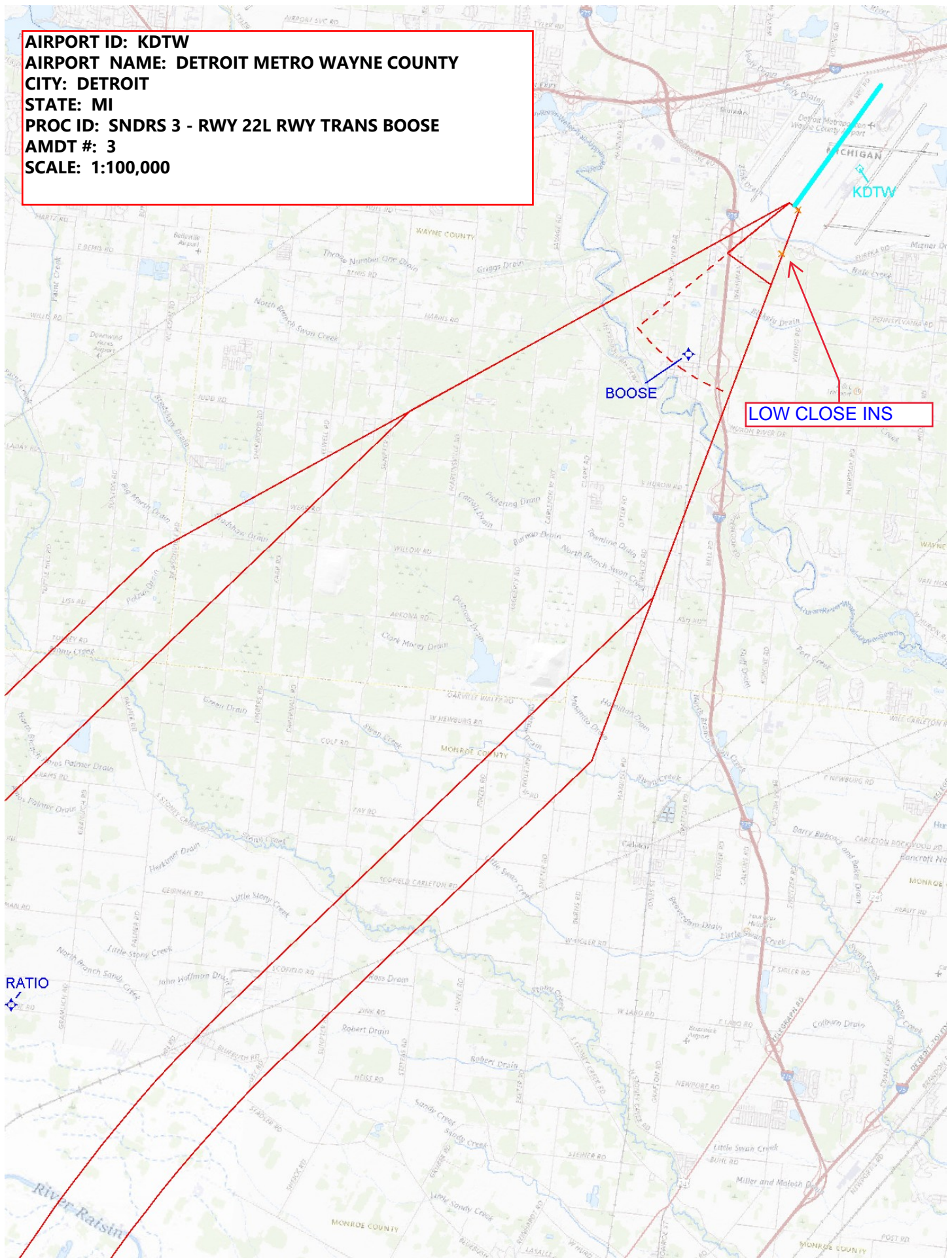


**Vector SID Controller
TOWER (1012)
39-000343**

AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 22R RWY TRANS TO JWELS
AMDT #: 3
SCALE: 1:500,000



AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 22L RWY TRANS BOOSE
AMDT #: 3
SCALE: 1:100,000



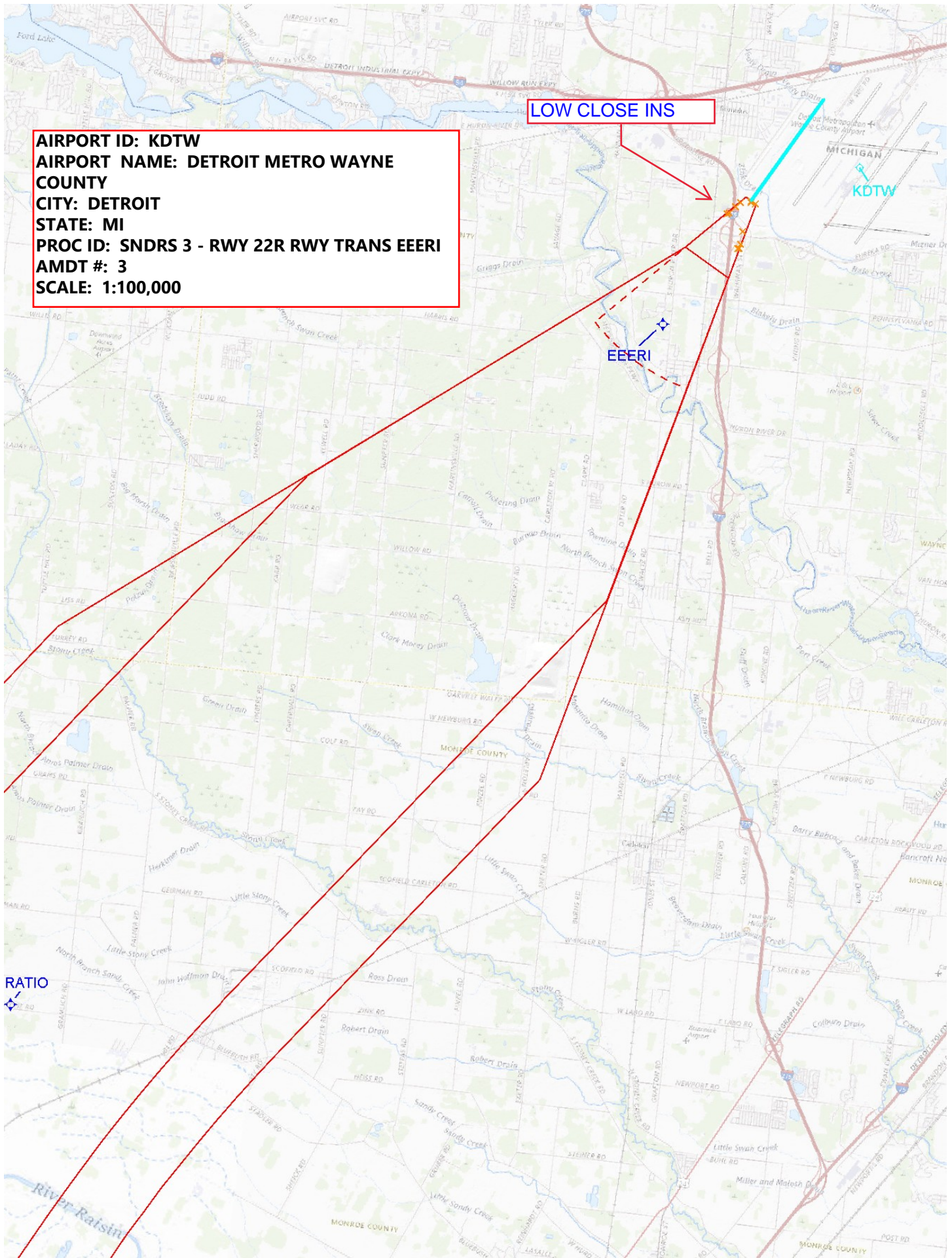
AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 - RWY 22R RWY TRANS EEERI
AMDT #: 3
SCALE: 1:100,000

LOW CLOSE INS

EEERI

KDTW

RATIO

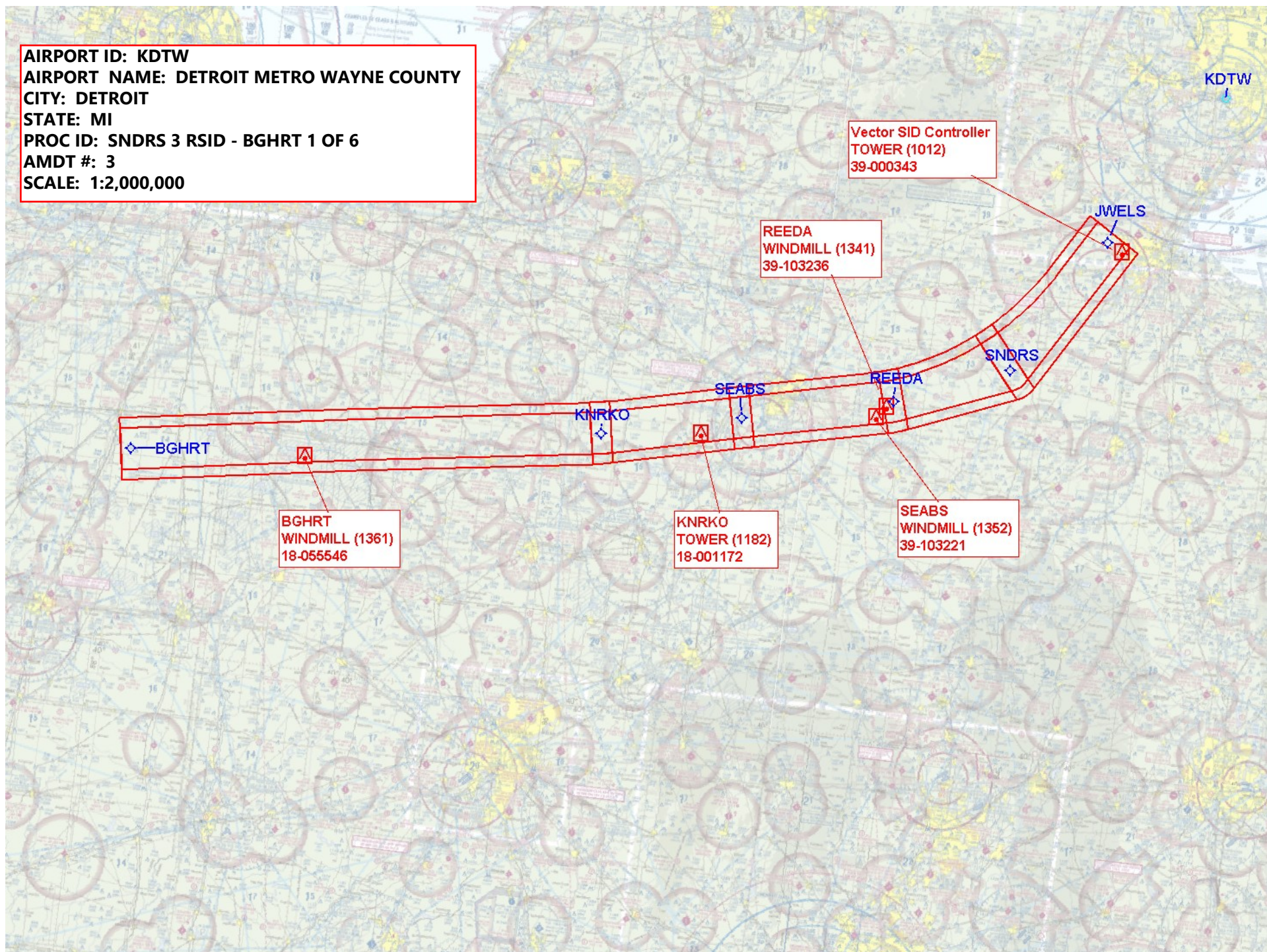


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 RSID - JEWLS - TORRR
AMDT #: 3
SCALE: 1:500,000

Vector SID Controller
TOWER (1012)
39-000343

TORRR
TOWER (1324)
39-002548

AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 RSID - BGHRT 1 OF 6
AMDT #: 3
SCALE: 1:2,000,000

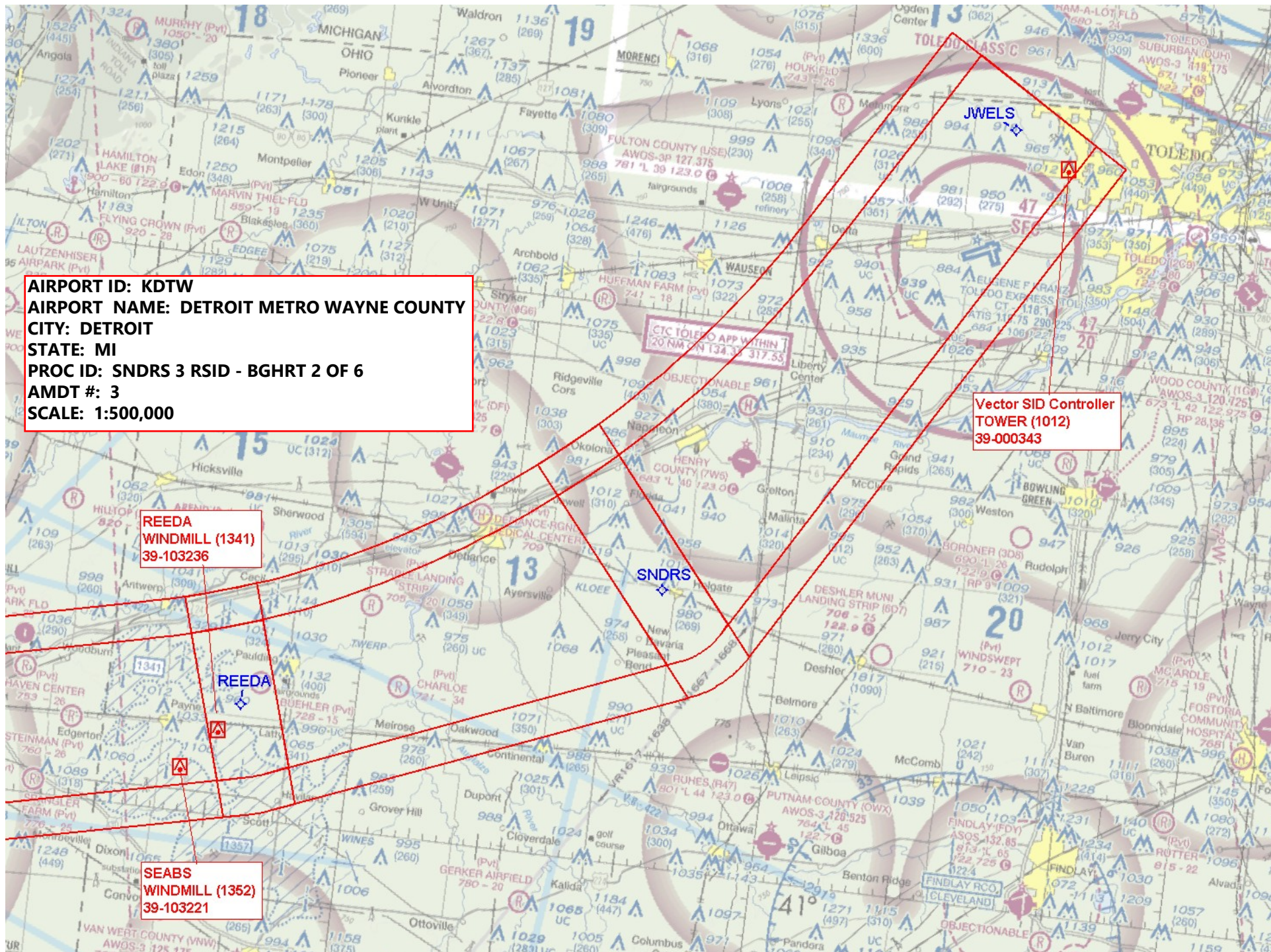


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: SNDRS 3 RSID - BGHRT 2 OF 6
AMDT #: 3
SCALE: 1:500,000

REEDA
WINDMILL (1341)
39-103236

SEABS
WINDMILL (1352)
39-103221

Vector SID Controller
TOWER (1012)
39-000343



AIRPORT ID: KDTW

AIRPORT NAME: DETROIT METRO WAYNE COUNTY

CITY: DETROIT

STATE: MI

PROC ID: SNDRS 3 RSID - BGHRT 3 OF 6

AMDT #: 3

SCALE: 1:500,000

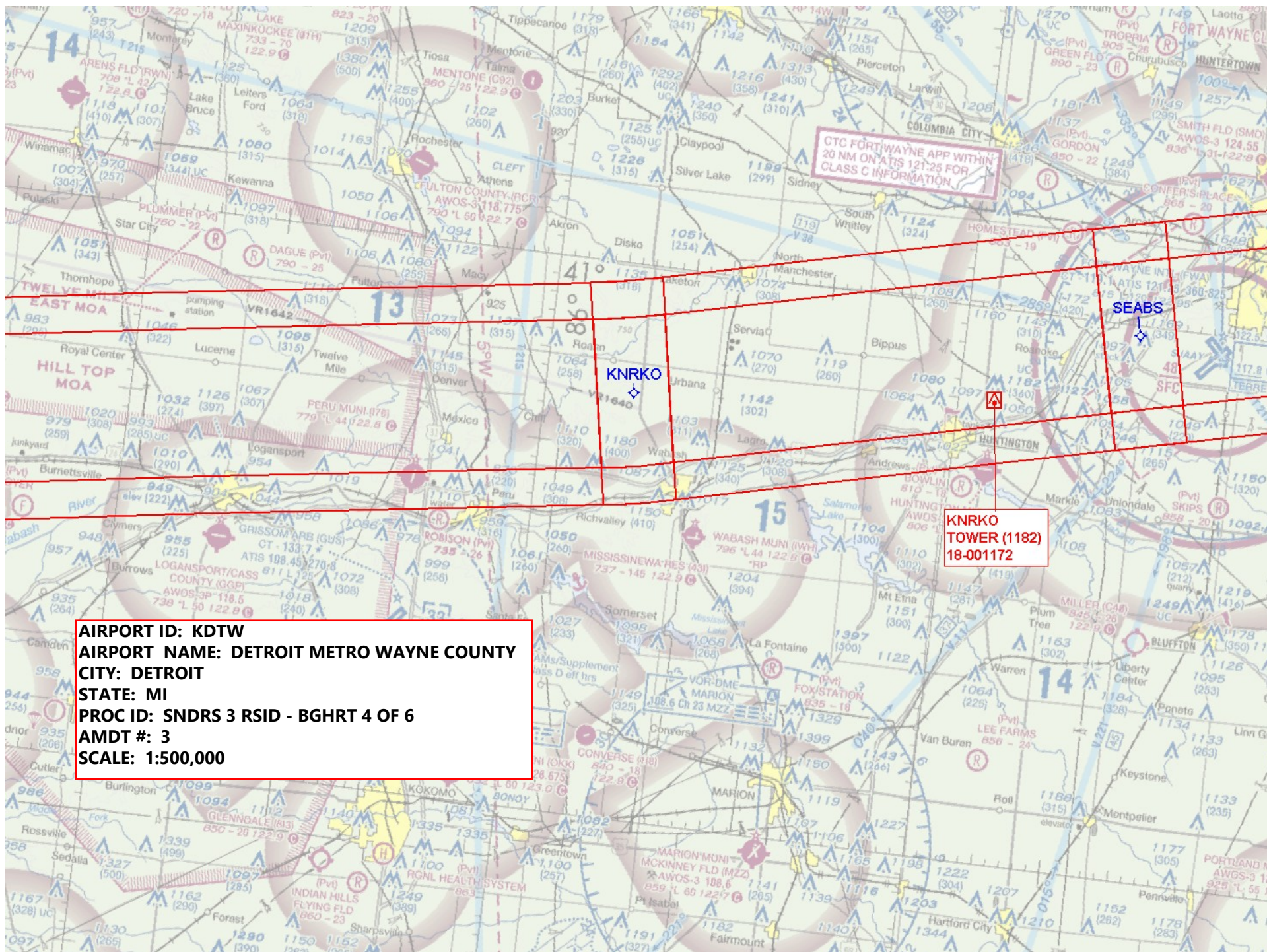
CTC FORT WAYNE APP WITHIN
20 NM ON ATIS 121.25 FOR
CLASS C INFORMATION

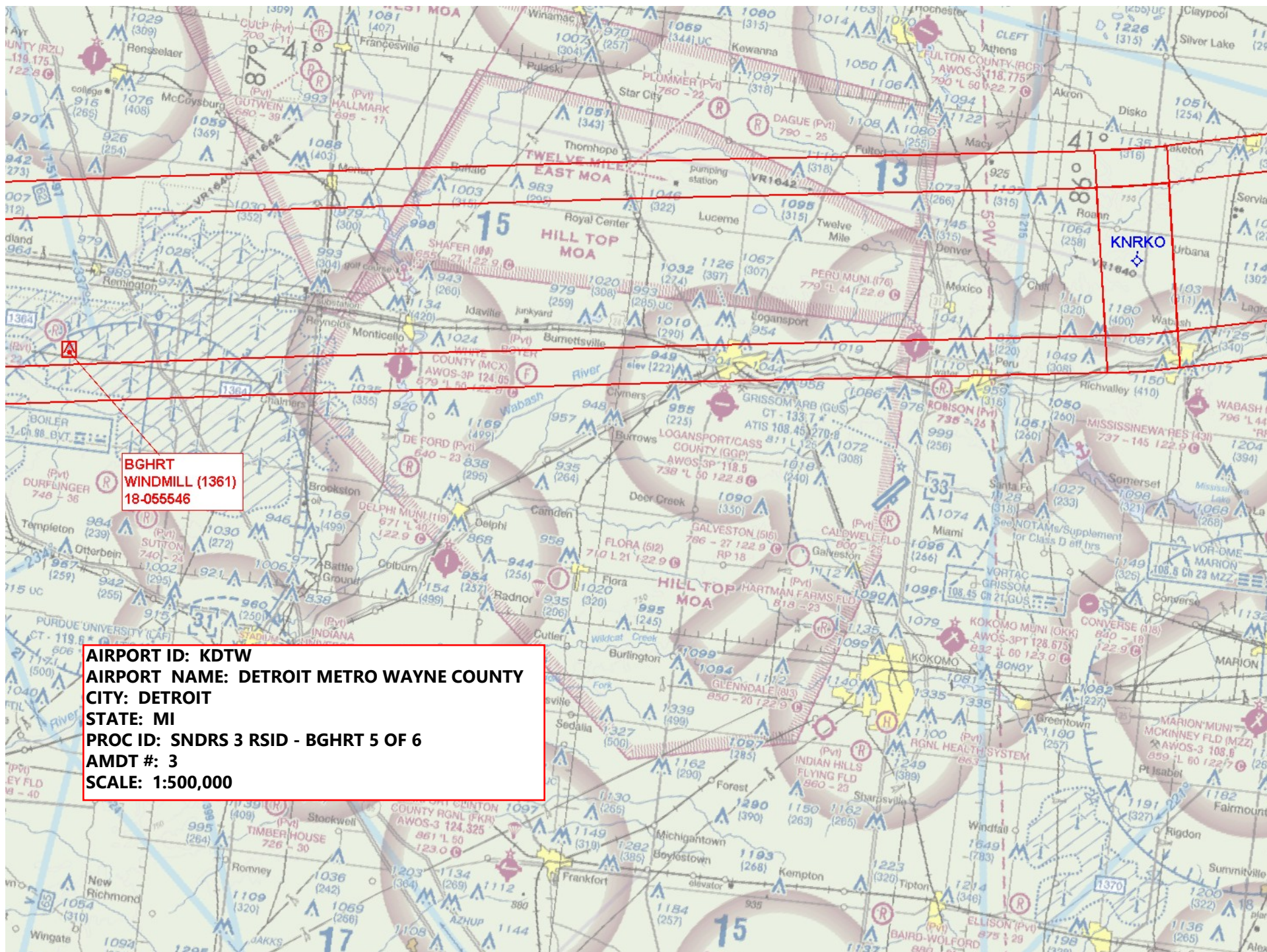
REEDA
WINDMILL (1341)
39-103236

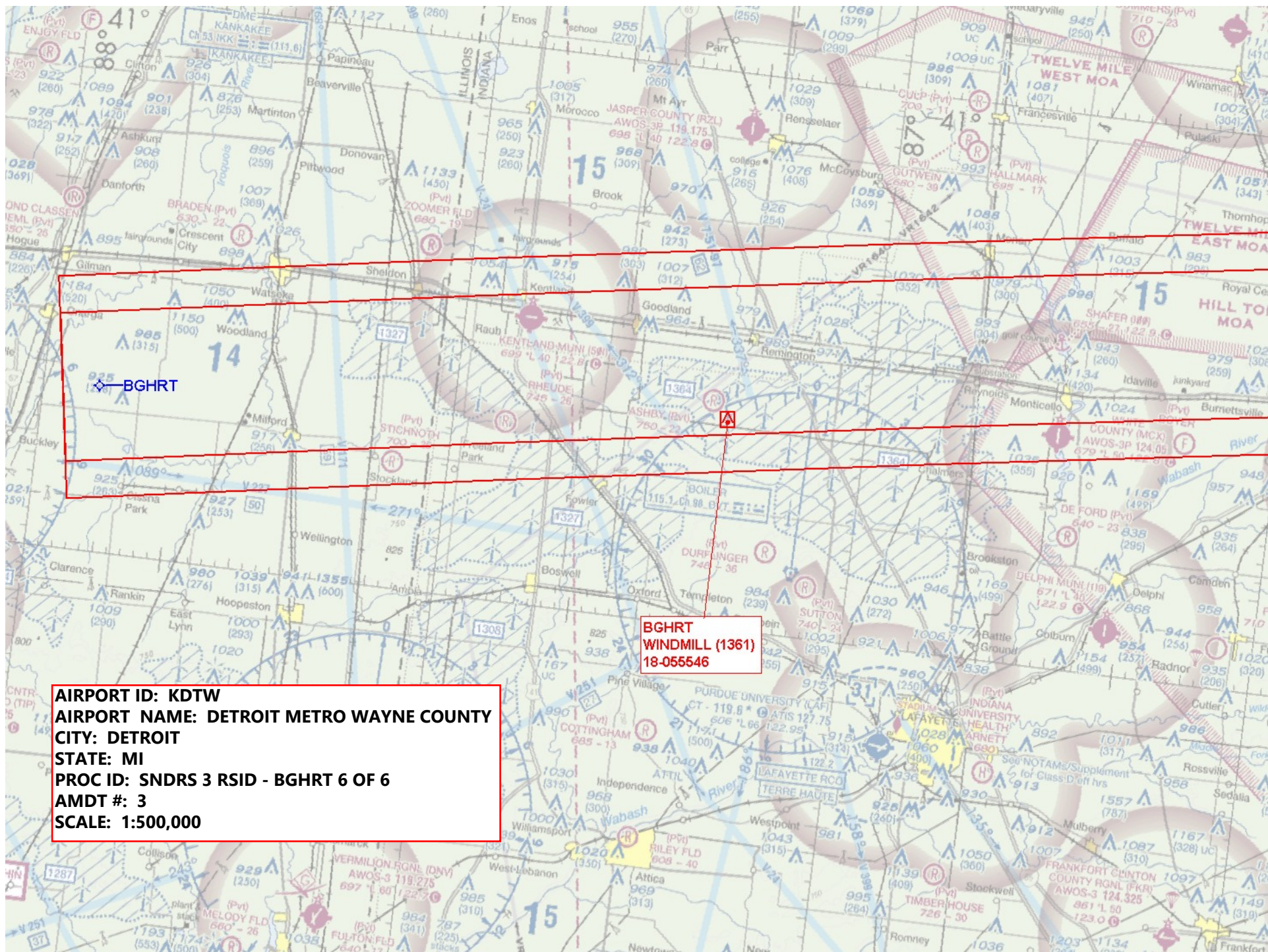
SEABS

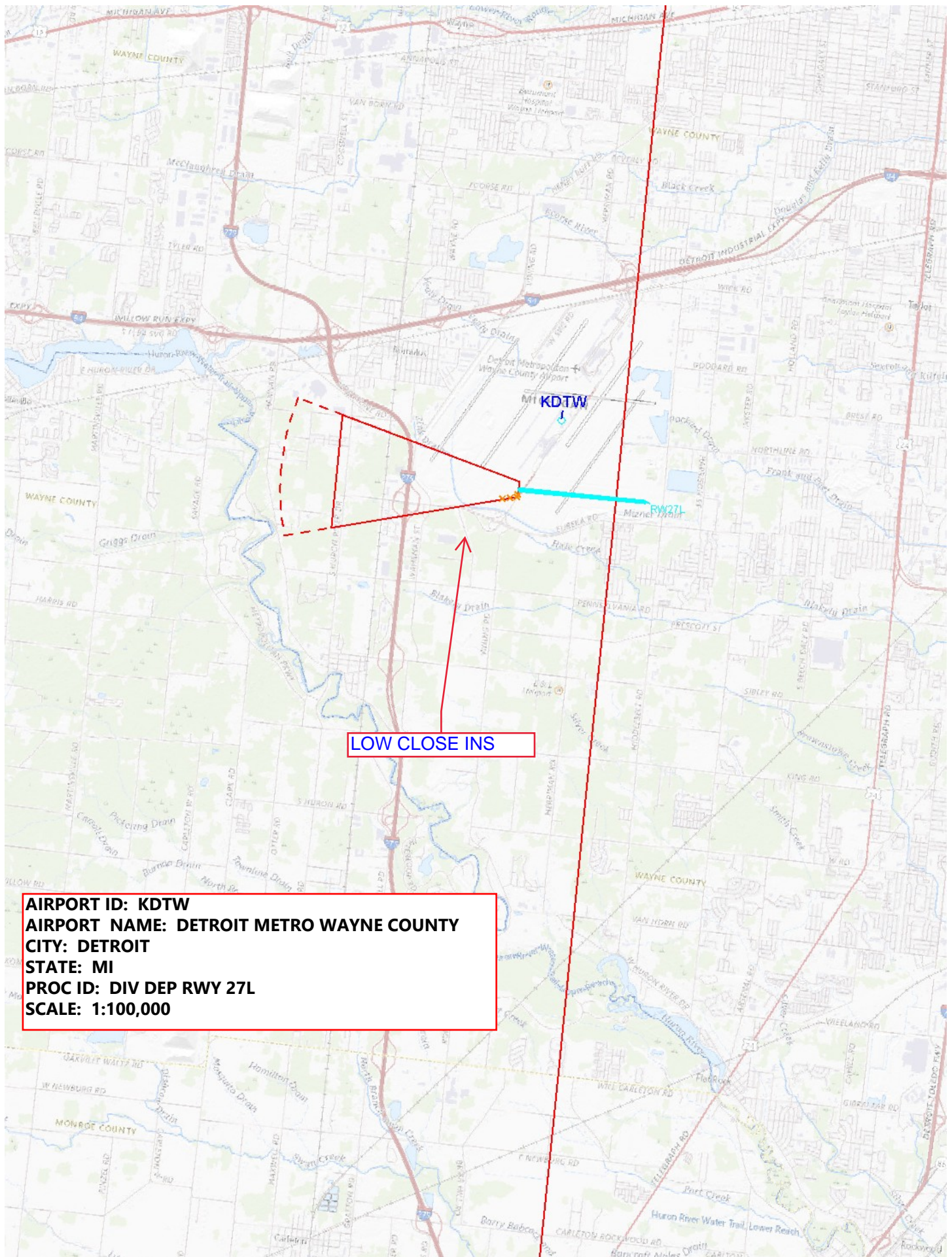
SEABS
WINDMILL (1352)
39-103221

KNRKO
TOWER (1182)
18-001172

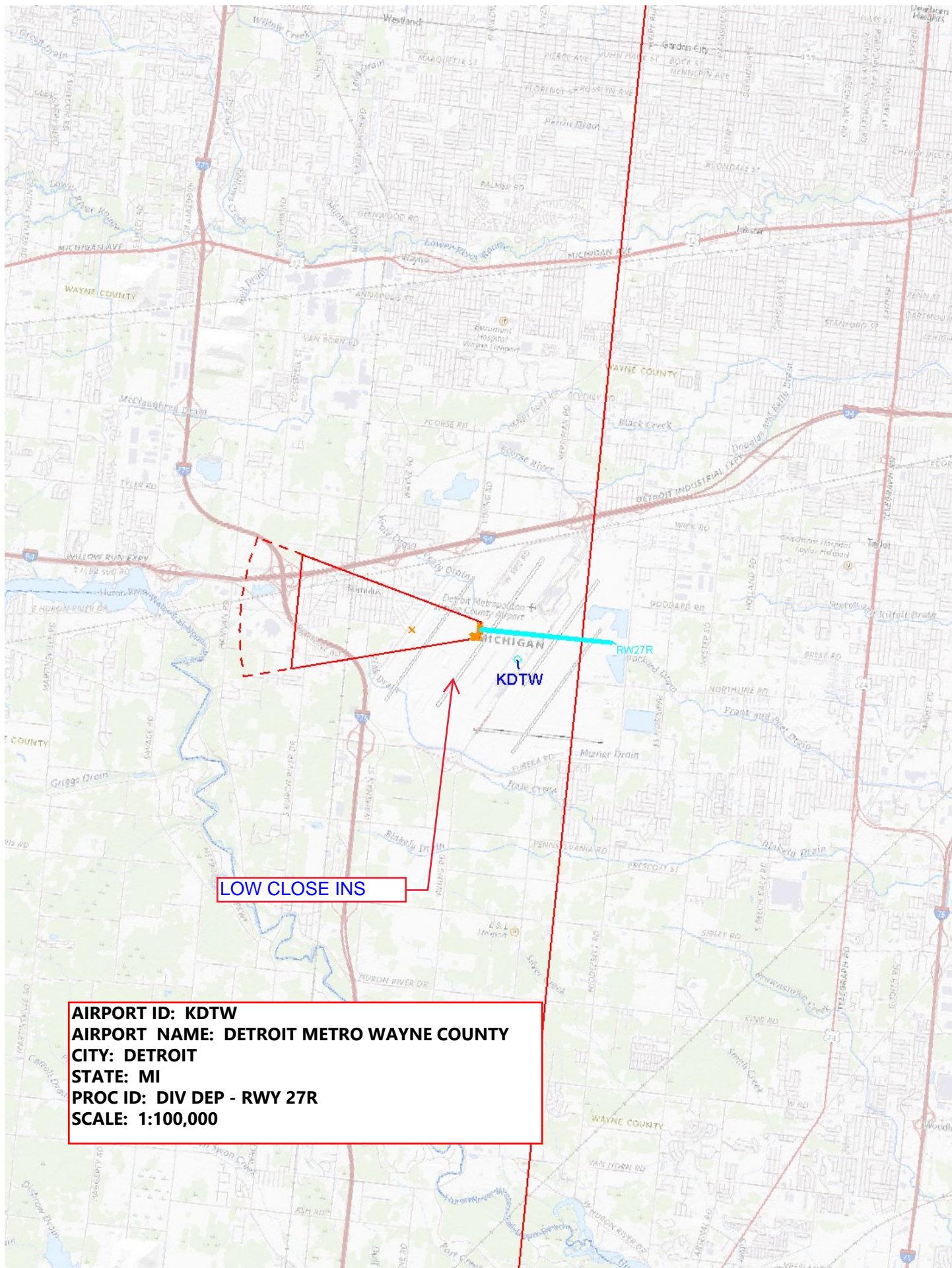






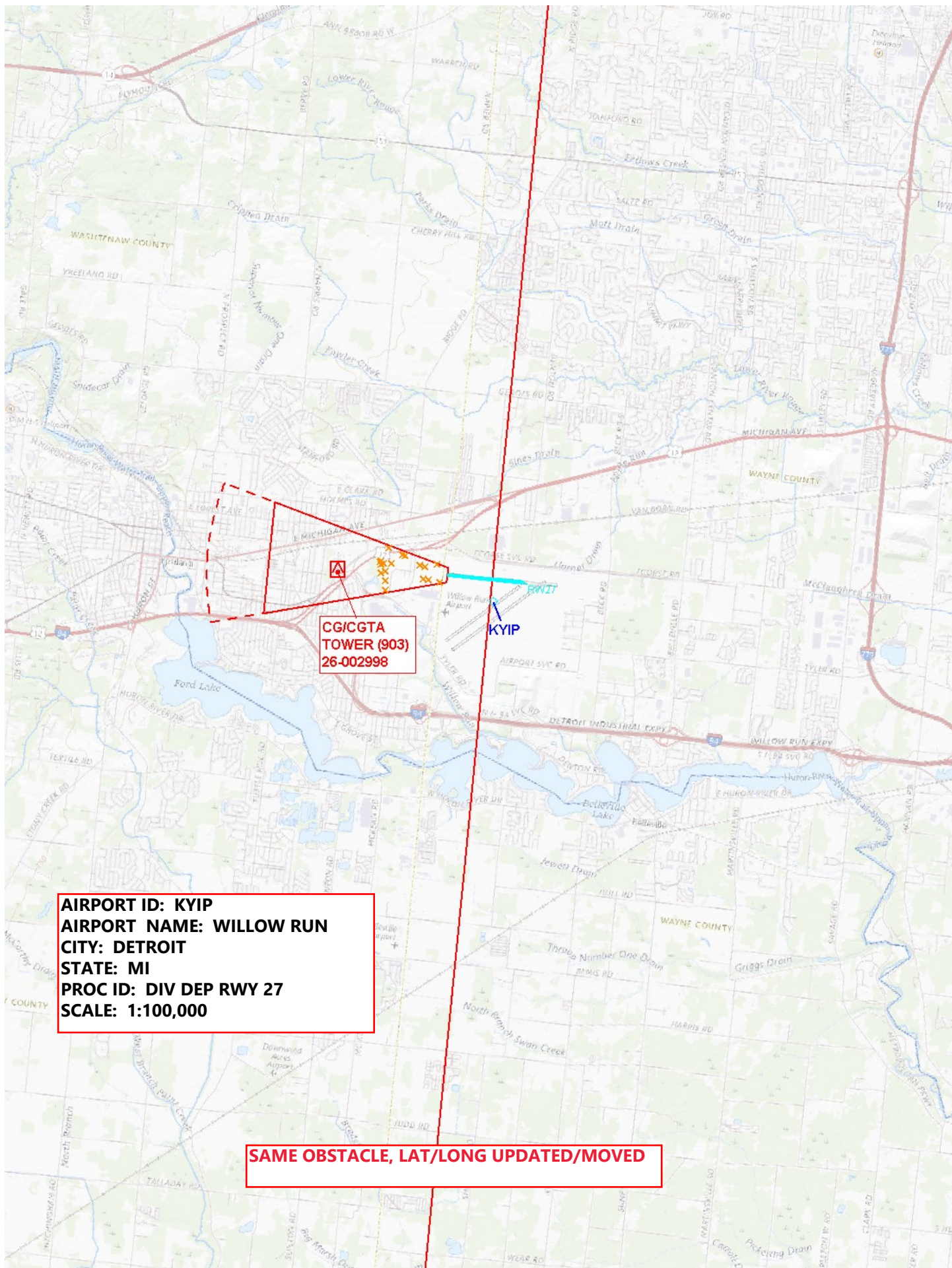


AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: DIV DEP RWY 27L
SCALE: 1:100,000



AIRPORT ID: KDTW
AIRPORT NAME: DETROIT METRO WAYNE COUNTY
CITY: DETROIT
STATE: MI
PROC ID: DIV DEP - RWY 27R
SCALE: 1:100,000



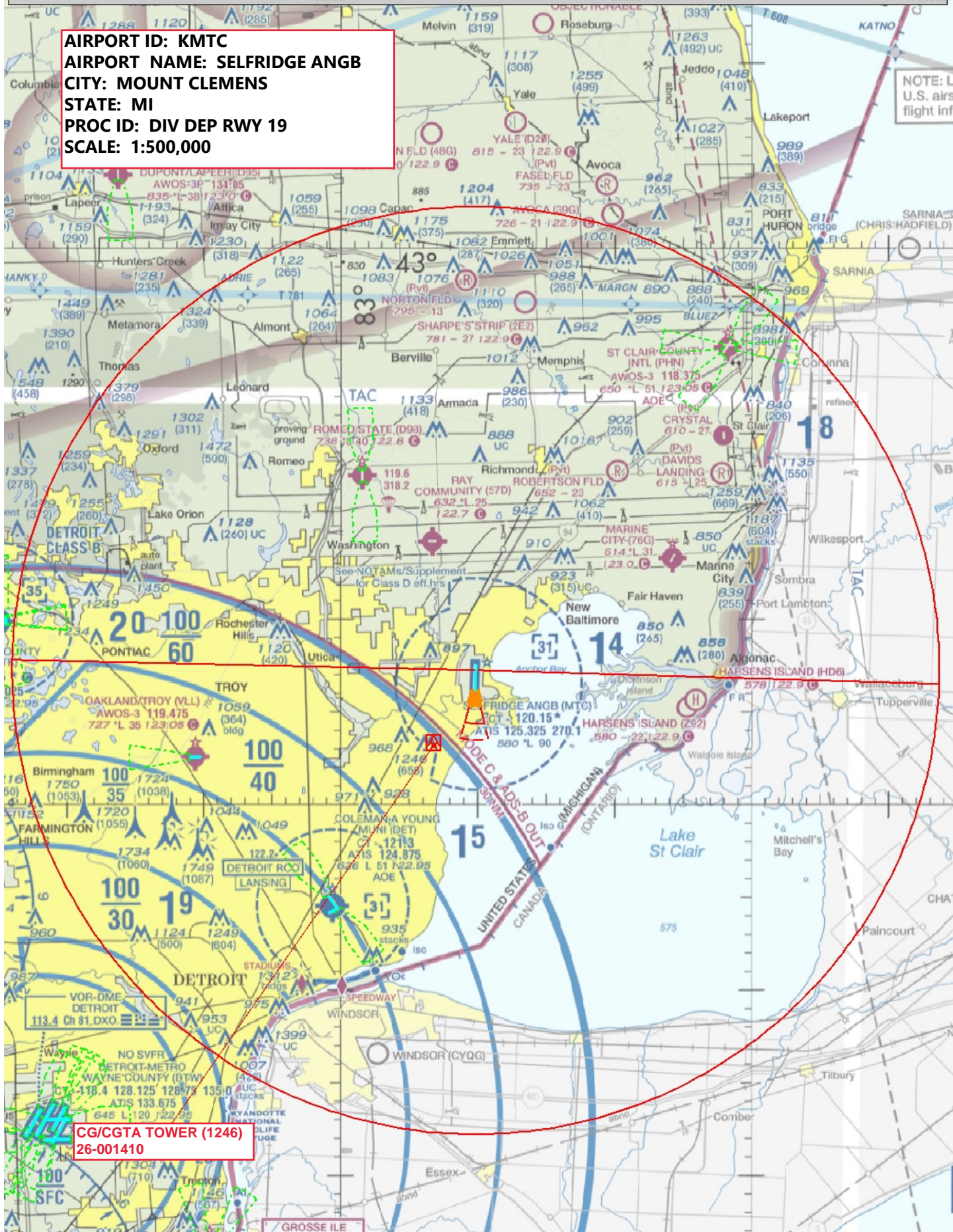


AIRPORT ID: KYIP
AIRPORT NAME: WILLOW RUN
CITY: DETROIT
STATE: MI
PROC ID: DIV DEP RWY 27
SCALE: 1:100,000

SAME OBSTACLE, LAT/LONG UPDATED/MOVED

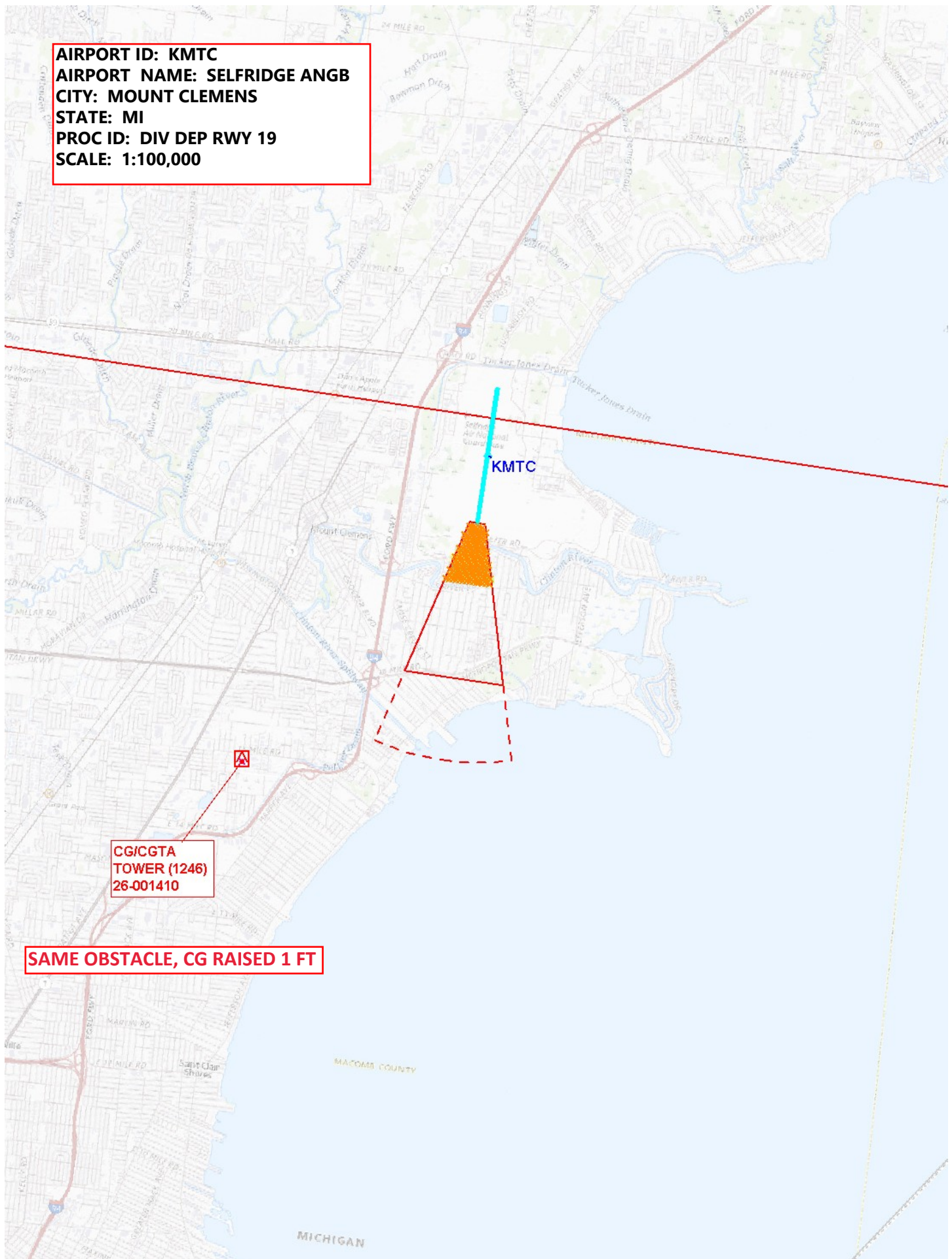
AIRPORT ID: KMTC
AIRPORT NAME: SELFRIDGE ANGB
CITY: MOUNT CLEMENS
STATE: MI
PROC ID: DIV DEP RWY 19
SCALE: 1:500,000

NOTE: L
U.S. airt
flight info



CG/CGTA TOWER (1246)
26-001410

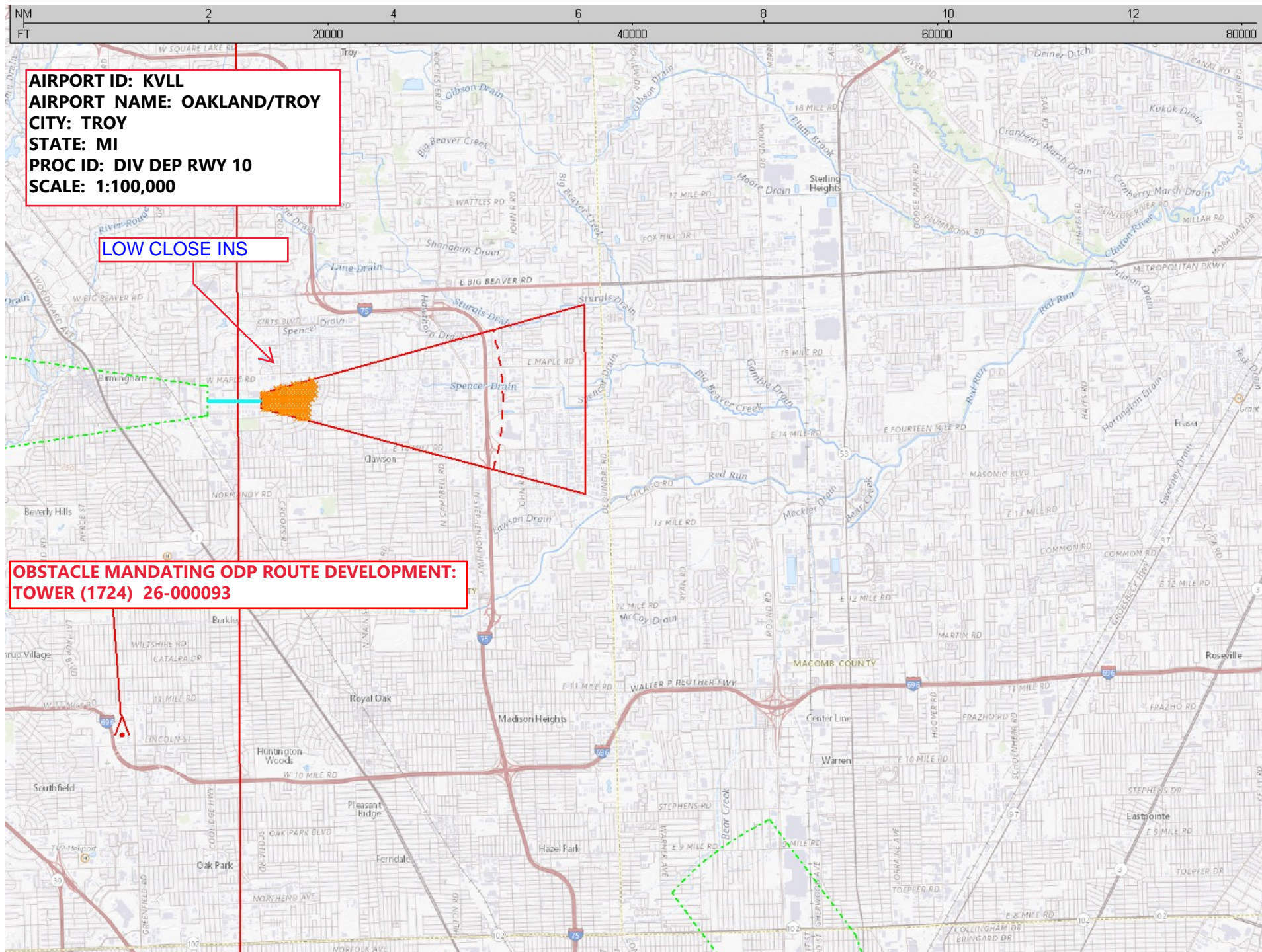
AIRPORT ID: KMTC
AIRPORT NAME: SELFRIDGE ANGB
CITY: MOUNT CLEMENS
STATE: MI
PROC ID: DIV DEP RWY 19
SCALE: 1:100,000

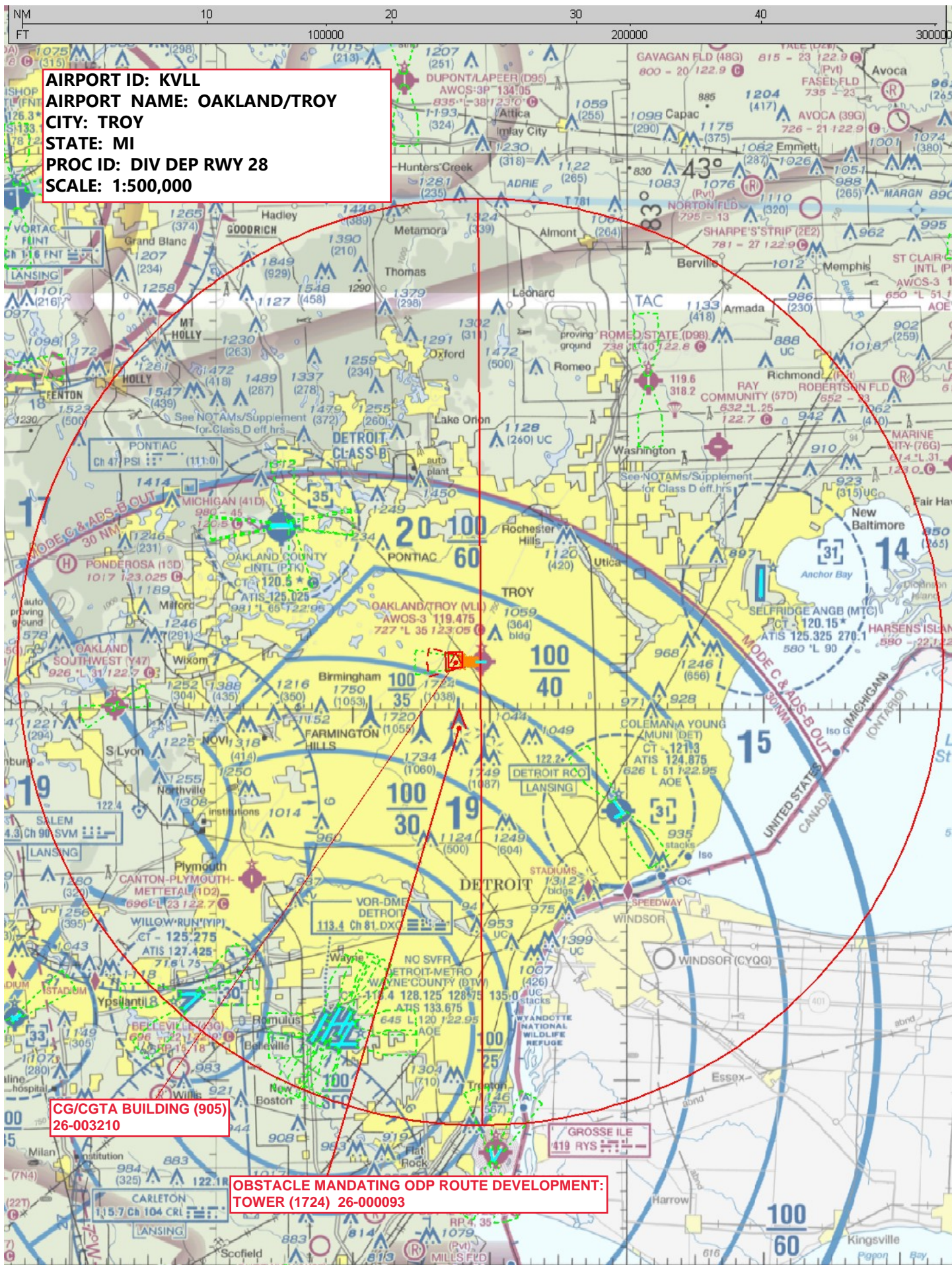


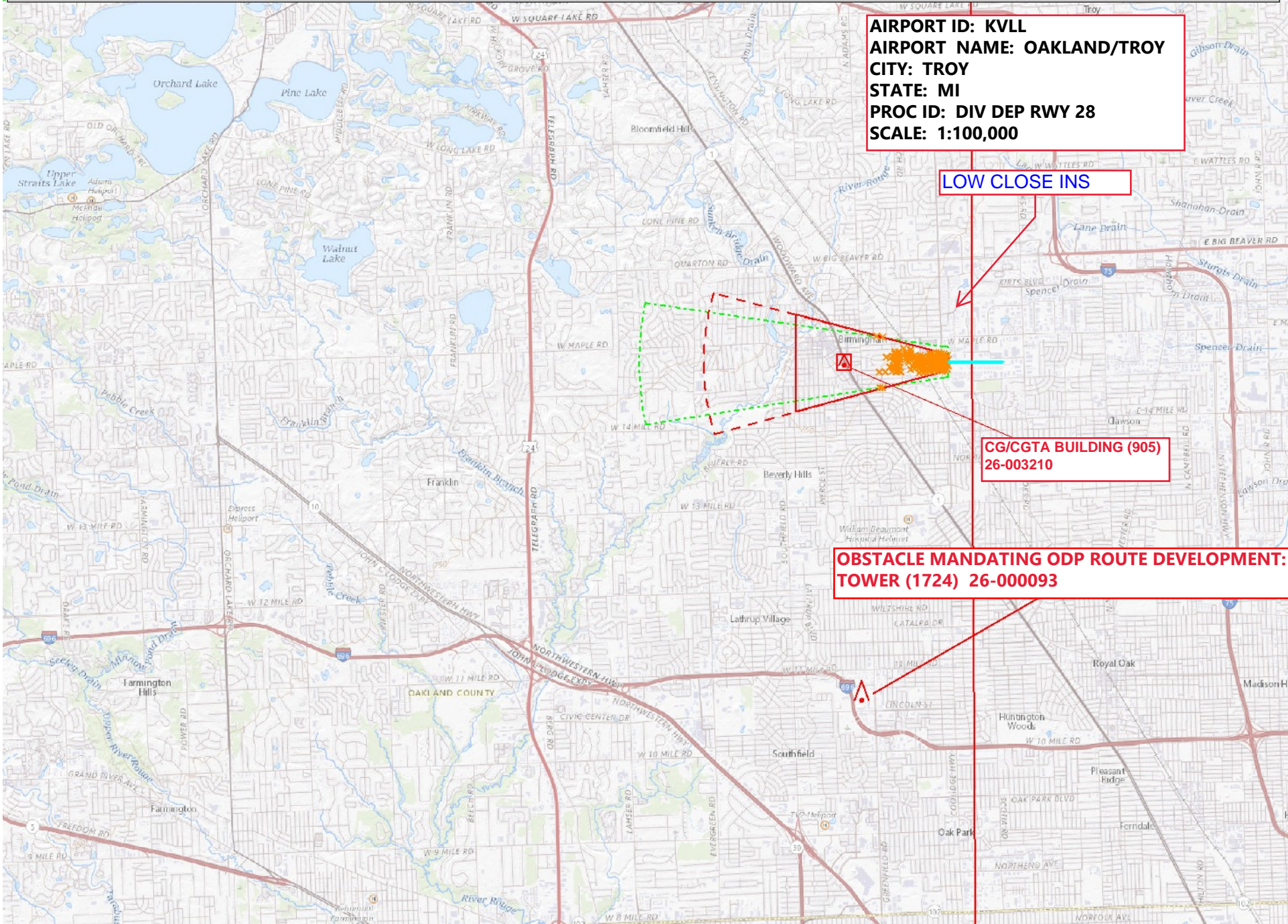
**CG/CGTA
TOWER (1246)
26-001410**

SAME OBSTACLE, CG RAISED 1 FT









AIRPORT ID: KVLL
AIRPORT NAME: OAKLAND/TROY
CITY: TROY
STATE: MI
PROC ID: DIV DEP RWY 28
SCALE: 1:100,000

LOW CLOSE INS

CG/CGTA BUILDING (905)
26-003210

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:
TOWER (1724) 26-000093