

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
DETROIT METROPOLITAN WAYNE COUNTY	KDTW	RNAV (GPS) Z RWY 21L	4A	DETROIT	MI	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
645	632	RNAV (GPS) Z RWY 21L	4	05/24/2018	7W	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		28 FEBRUARY 2019	ROUTINE			

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
RYEDR	IAF	TOFFY		TF	FB	1.00	272.46	4.00	5000
COBBO	IAF	KAALI		TF	FB	1.00	279.88	4.01	6000
COUNT	IAF	TIGRZ		TF	FB	1.00	215.86	5.62	5000
TOFFY		GIVVZ		TF	FB	1.00	268.72	2.26	5000
GIVVZ		COUNT		TF	FB	1.00	225.58	2.05	5000
KAALI		TIGRZ		TF	FB	1.00	245.14	3.14	5000
TIGRZ		ROBBI		TF	FB	1.00	215.84	3.14	5000
ROBBI		BALAS		TF	FB	1.00	215.82	3.14	4000
BALAS		NESBI		TF	FB	1.00	215.80	3.14	3000
NESBI	IF	PUKLE		TF	FB	1.00	215.78	3.14	2000
PUKLE	FAF	RW21L	MAP	TF	FO	0.30	215.75	4.12	
RW21L	MAP	1100 MSL		CA			215.75		1100
1100 MSL		GAAGE		DF	FO	1.00			4000





**MINIMUMS:**  
**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT**

**ALTERNATE:** NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA**	832	2400	200	832	2400	200	832	2400	200	832	2400	200			
LNAV/VNAV DA	1062	4000	430	1062	4000	430	1062	4000	430	1062	4000	430			
LNAV MDA	1040	2400	408	1040	2400	408	1040	4000	408	1040	4000	408			
CIRCLING	1180	1	535	1180	1	535	1180	1 1/2	535	1240	2	595			

**CHANGES - REASONS**

1. CHANGED MAX SPEED AT COBBO FROM 200 KIAS TO 210 KIAS. - ATC REQUEST.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, DTW ATCT, AMGR, DTW APP CON, ATA

**FLIGHT CHECKED BY**  
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**DEVELOPED BY**  
JIMMY S. HUGHES  
*Digitally signed by*  
**JIMMY S HUGHES**  
Nov 09, 2018

**APPROVED BY**  
JULIE MORGAN

**OFFICE**  
**DATE**  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Nov 13, 2018

**OFFICE**  
AJV-5422  
**DATE**  
09/04/2018

**OFFICE**  
AJV-5420  
**DATE**  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Nov 13, 2018  
**TITLE**  
MANAGER



**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

OPERATION TYPE

0

SBAS SERVICE PROVIDER IDENTIFIER

0

AIRPORT IDENTIFIER

KDTW

RUNWAY

RW21L

APPROACH PERFORMANCE DESIGNATOR

0

ROUTE INDICATOR

Z

REFERENCE PATH DATA SELECTOR

0

REFERENCE PATH IDENTIFIER (APPROACH ID)

W21A

LTP/FTP LATITUDE

421310.8550N

LTP/FTP LONGITUDE

0832002.6515W

LTP/FTP ELLIPSOIDAL HEIGHT

+01581

FPAP LATITUDE

421144.2120N

FPAP LONGITUDE

0832106.4870W

THRESHOLD CROSSING HEIGHT (TCH)

00055.0

TCH UNITS SELECTOR (METERS OR FEET USED)

F

GLIDEPATH ANGLE (GPA)

03.00

COURSE WIDTH AT THRESHOLD

106.75

LENGTH OFFSET

0000

HORIZONTAL ALERT LIMIT (HAL)

40.0

VERTICAL ALERT LIMIT (VAL)

35.0

CRC REMAINDER

EB5EA96F

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE

K5

LTP ORTHOMETRIC HEIGHT

+01926

FPAP ORTHOMETRIC HEIGHT

+01926

