

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) U RWY 4L	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> DETROIT	<u>STATE</u> MI	
<u>AIRPORT ELEVATION</u> 645	<u>TDZE</u> 645	<u>SUPERSEDED</u> RNAV (RNP) U RWY 4L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
SIZOR	IAF	PASSN		TF	FB	1.00	122.78	3.44	5000
PASSN		ATTEE		RF	FB	1.00	(4.71 NM RADIUS CCW (CFDTC))	2.85	4000
ATTEE		COZZY		RF	FB	1.00	(4.71 NM RADIUS CCW (CFDTC))	4.14	4000
SMPTR	IAF	COZZY		TF	FB	1.00	038.07	2.14	4000
COZZY		RUCOB		TF	FB	1.00	038.09	3.14	3000
GRBAC	IAF	FAMLY		TF	FB	1.00	128.62	5.10	3000
SSHEE	IAF	IWILL		TF	FB	1.00	218.88	3.47	3500
IWILL		FAMLY		RF	FB	1.00	(2.80 NM RADIUS CCW (CFBWM))	4.41	3000
FAMLY		TIEZZ		RF	FB	1.00	(2.80 NM RADIUS CCW (CFBWM))	0.98	3000
TIEZZ		RUCOB		RF	FB	1.00	(2.80 NM RADIUS CCW (CFBWM))	3.46	3000
RUCOB		JITLI		TF	FB	1.00	038.11	4.14	3000
JITLI		PEVSE		TF	FB	1.00	038.14	3.14	3000
PEVSE	IF	MOTWN	PFAF	TF	FB	1.00	038.16	3.14	2000
MOTWN	PFAF	(CFDXT)	MAP	TF	FO	0.30	038.18	4.08	
(CFDXT)	MAP	1100 MSL		CA			038.18		1100
1100 MSL		DOHNT		DF	FO	1.00			4000

QUALITY
16
CHECKED

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 4000 DIRECT DOHNT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT RUCOB				
3. FAC:	038.18	PFAF: MOTWN	DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT:	RUCOB 3000, JITLI 3000, PEVSE 3000, MOTWN 2000				
5. DIST TO THLD FROM OM:	4.08	MM:	IM:	150 HAT:	463 HAT: 1.28
6. MIN GP INCPT:	2000	GP ALT AT PFAF	MOTWN 2000	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 54.9	IM:
8. MSA FROM:	RW04L 2800				

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -19°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE ADJACENT TO SIZOR IAF: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO GRBAC IAF: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO SSHEE IAF: RF REQUIRED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 DA ALL CATS VISIBILITY TO RVR 6000.

CHART PLANVIEW NOTE AT SIZOR: MAX 210 KIAS.
CHART PLANVIEW NOTE AT GRBAC: MAX 210 KIAS.
CHART PLANVIEW NOTE AT SSHEE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 3000 AT TIEZZ.
CHART MANDATORY 6000 AT SIZOR.
CHART MANDATORY 5000 AT GRBAC.
CHART MANDATORY 4000 AT ATTEE.
CHART MINIMUM 4000 AT SSHEE.
CHART MINIMUM 4000 AT SMPTR.
FICTITIOUS THRESHOLD POINT (CFDXT) DO NOT CHART.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 2.53 DEGREES.
FAC CROSSES RWY C/L EXTENDED 2531 FT FROM THLD.
HOLD NW, RT, 117.62 INBOUND



AIRPORTDETROIT METROPOLITAN WAYNE
COUNTY**AIRPORT ID**

KDTW

PROCEDURE NAME

RNAV (RNP) U RWY 4L

ORIGINAL/AMENDMENT

ORIG-A

CITY

DETROIT

STATE

MI

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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	1058	4000	413	1058	4000	413	1058	4000	413	1058	4000	413			

CHANGES - REASONS

1. FIX SYKOE CHANGED TO SIZOR - ATC REQUEST DUE TO FIX NAME CONFUSION.
2. REMOVED FAHRENHEIT VALUES FROM BARO-VNAV NOTE - 8260.19H REQUIREMENT.

COORDINATED WITH:**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB ARTCC, DTW APP CON, METRO TOWER**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED**OFFICE****DATE****DEVELOPED BY**

RUSS ROSLEWSKI

*Digitally signed by***RUSSELL ROSLEWSKI****OFFICE**

AJV-A421

DATE

04/10/2019

APPROVED BY

MARLON ROBINSON

Jun 14, 2019

OFFICE

AJV-A420

DATE**TITLE**
MANAGER

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DETROIT METROPOLITAN WAYNE COUNTY	KDTW	RNAV (RNP) U RWY 4L	ORIG-A	DETROIT	MI	645	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM TO
SIZOR PASSN

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
1.00	3.44											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.AAO	415727.00N/0834824.00W		906	164	98	4E	1000				AC60 AT3034	5000
2.TERRAIN	415727.00N/0834824.00W		706 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM TO
PASSN ATTEE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
1.00	2.85											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.AAO	415442.00N/0834039.00W		906	164	98	4E	1000				AC60 AT2034	4000
4.TERRAIN	415442.00N/0834039.00W		706 (700)								AS1500	2200

COMPUTATIONS

RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
PASSN-ATTEE	5000	210	232	4355	57	2.85	14					(CFDTC)/4.71 NM

SEGMENT REMARKS:



FACILITY
RNAV

<u>AIRPORT</u> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) U RWY 4L	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> DETROIT	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 645	<u>FACILITY</u> RNAV
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INITIAL: STEPDOWN

FROM
COZZY

TO
RUCOB

<u>RNP</u> 1.00	<u>DISTANCE</u> 3.14	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.TOWER (26-001473)	415713.00N/0833611.00W	920	500	50	5D	1000				AC50 AT1030	3000
9.TERRAIN	415845.00N/0833542.00W	670 (700)									700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

FROM
GRBAC

TO
FAMLY

<u>RNP</u> 1.00	<u>DISTANCE</u> 5.10	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
10.TOWER (26-001616)	415903.00N/0833924.00W	1005	500	50	5D	1000				AC50 AT945	3000
11.TERRAIN	415933.00N/0833930.00W	726 (700)								AS1500	2200

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



FACILITY
RNAV

HMAS

RF CENTER FIX/DISTANCE

HMAS

RF CENTER FIX/DISTANCE
(CFBWM)/2.8 NM

QUALITY
16
CHECKED

<u>AIRPORT</u> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) U RWY 4L	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> DETROIT	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 645	<u>FACILITY</u> RNAV
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INITIAL: STEPDOWN

FROM
FAMLY

TO
TIEZZ

RNP
1.00

DISTANCE
0.98

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
10.TOWER (26-001616)	415903.00N/0833924.00W	1005	500	50	5D	1000				AC50 AT945	3000
14.TERRAIN	415915.00N/0833848.00W	716 (700)								AS1500	2200

COMPUTATIONS

<u>RF SEGMENT</u> FAMLY-TIEZZ	<u>ALT</u> 3244	<u>KIAS</u> 200	<u>KTAS</u> 215	<u>HAA</u> 2599	<u>VKTW</u> 53	<u>TR</u> 0.98	<u>BA</u> 20	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u> (CFBWM)/2.8 NM
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SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM
TIEZZ

TO
RUCOB

RNP
1.00

DISTANCE
3.46

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.TOWER (26-001473)	415713.00N/0833611.00W	920	500	50	5D	1000				AC50 AT1030	3000
15.TERRAIN	420000.00N/0833618.00W	673 (700)								AS1500	2200

COMPUTATIONS

<u>RF SEGMENT</u> TIEZZ-RUCOB	<u>ALT</u> 3000	<u>KIAS</u> 200	<u>KTAS</u> 215	<u>HAA</u> 2355	<u>VKTW</u> 53	<u>TR</u> 3.46	<u>BA</u> 20	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u> (CFBWM)/2.8 NM
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SEGMENT REMARKS:



FACILITY
RNAV

HMAS

RF CENTER FIX/DISTANCE

HMAS

RF CENTER FIX/DISTANCE

Page 6 of 12

INTERMEDIATE

FROM

PEVSE

TO

MOTWN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
1.00	3.14											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
20.AAO	420503.00N/0832845.00W		877	164	98	4E	500				AC63 VEB81 AT479	2000
21.TERRAIN	421012.00N/0832742.00W		725 (700)								AS1000	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL

FROM

MOTWN

TO

(CFDXT)

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
0.30	4.08		(CFDXT)	413								
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
22.TREE (26-108609)	421140.74N/0832416.09W		774	20	3	1A		22.00:1			AC3	1058

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



MISSED APPROACH

FROM
(CFDXT)

TO
1100 MSL

RNP	DISTANCE	PAT	MAP	HAT	HMAS						
0.30-1.00											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
23.TOWER (26-000689)	421802.75N/0833827.86W	1249	20	3	1A	1000					2300
24.TERRAIN	421909.00N/0834154.00W	991 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER
RW04L

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (26-000324)	422901.00N/0831844.00W	018	17.2	1750	250	50	4D	1000			2800

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -19C (-2F)	<u>CRITICAL HIGH</u> +54C (+130F)	<u>ACT</u> -19C	<u>APT ISA</u> +13.72C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2012-2016).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 962 HIGH TEMP 1123.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RNP 0.30: OCS SLOPE=22.00:1 ORIGIN=3913 FT

PROCEDURAL TCH 54.91 UTILIZED TO MATCH ILS RWY 4L PROCEDURE/HJT ILS TCH.

100 FT VEGETATION HEIGHT PER FPT CHECKLIST



<u>AIRPORT</u> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) U RWY 4L	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> DETROIT	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 645	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.14
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.26
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	031.18
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	674
DISTANCE FROM	THLD	TO 1500FT POINT	5.62
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.95
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	031.16
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	725

THRESHOLD
COORDINATES
(IF STR-IN)

421207.82N/0832302.40W

ARP COORDINATES

421244.80N/0832112.20W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 4L DISTANCE 1.50 NM

FAF
COORDINATES

420837.67N/0832551.72W

FIX NAME
COORDINATES

IF PEVSE: 420556.17N/0832802.94W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
16
CHECKED

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Page 11 of 12

<u>AIRPORT</u> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) U RWY 4L	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> DETROIT	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 645	<u>FACILITY</u> RNAV
PART E: PREPARED BY							
<u>NAME</u> RUSS ROSLEWSKI	<u>OFFICE</u> AJV-A421			<u>DATE</u> 04/10/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY

16

CHECKED

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Page 12 of 12