

RADIO FIX AND HOLDING DATA RECORD

NAME: ADENO

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 450150.32N/0851313.53W

TYPE: WP, DME

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	TRAVERSE CITY	TVC	VOR/DME	VH	034.76	032.76	25.92	25.92	3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW		WP	217.76	037.76	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	445652.00N/0850918.00W	1381	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193	1				(US)
IAP	RNAV (GPS) RWY 27		1	N98	BOYNE CITY	MI (US)
IAP	RNAV (GPS) RWY 9			N98	BOYNE CITY	MI (US)
IAP	RNAV (GPS) RWY 17			KBFA	BOYNE FALLS	MI (US)
IAP	RNAV (GPS) RWY 35			KBFA	BOYNE FALLS	MI (US)
IAP	RNAV (GPS) RWY 9			KGLR	GAYLORD	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: ICADA STATE: MI COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 435219.37N/0845541.20W TYPE: WP

AIRSPACE DOCKET: 23-AGL-12 FIX TYPE OF ACTION: MODIFY

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
IAP	RNAV (GPS) RWY 9			KGDW	GLADWIN	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED "DME" IN FIX TYPE.
3. DELETED MOP IN FIX MAKE-UP FACILITIES -- MOP VOR MON.
4. DELETED EN ROUTE V320 IN FIX USE.
5. DELETED "CONTROLLER, EN ROUTE LOW" IN REQUIRED CHARTING.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A423	NAME: DANIEL JOHNSEN
APPROVED BY:	DATE: 04/17/2025	OFFICE: AJV-A423	NAME: ALLAN WILL

SIGNATURE:

Digitally signed by
ALLAN WILL
Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: INDEX

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 431924.10N/0842852.34W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L	237.86	234.86	21.63	21.63	2600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	MBS	VOR/DME	237.86	057.86	L	1	2600 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (26-021158)	431809.01N/0843430.88W	1236	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V274	1				(US)
IAP	RNAV (GPS) RWY 6			KIKW	MIDLAND	MI (US)
IAP	ILS OR LOC RWY 5			KMBS	SAGINAW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. DELETED "INT" AND ADDED "WP" IN FIX TYPE.
2. DELETED MOP IN FIX MAKE-UP FACILITIES -- MOP VOR MON.
3. CHANGED NONSTANDARD HOLDING REMARK FROM "PAT 1 - LEFT TURNS ATC REQUEST" TO "PAT 1 ATC REQUEST".
4. DELETED REMARK "SAGINAW (FAC 1) AND MOUNT PLEASANT (FAC 2) USED TO ESTABLISH FIX COORDINATES".
5. DELETED FAC 2 FROM EN ROUTE V274 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IROTO

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 451120.36N/0850430.40W

TYPE: WP, DME

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	PELLSTON	PLN	VORTAC	L	219.39	213.39	31.69	31.69		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE		WP	038.39	218.39	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001068)	451049.00N/0850550.20W	1676	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193	1				(US)
IAP	RNAV (GPS) RWY 2		1	KACB	BELLAIRE	MI (US)
IAP	RNAV (GPS) RWY 17		1	KBFA	BOYNE FALLS	MI (US)
IAP	RNAV (GPS) RWY 27			KCVX	CHARLEVOIX	MI (US)
IAP	RNAV (GPS) RWY 9			KGLR	GAYLORD	MI (US)
IAP	ILS OR LOC RWY 10			KTVC	TRAVERSE CITY	MI (US)
IAP	RNAV (GPS) RWY 10			KTVC	TRAVERSE CITY	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: LORIW

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 452107.46N/0845527.17W

TYPE: WP, DME

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	PELLSTON	PLN	VORTAC	L	219.39	213.39	20.00	20.00		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193	1		KPLN	PELLSTON	(US)
IAP	RNAV (GPS) RWY 5					MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: MOUNT PLEASANT VOR/DME STATE: MI COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 433722.17N/0844414.16W TYPE:

AIRSPACE DOCKET: 23-AGL-41 FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	MOUNT PLEASANT	MOP	VOR/DME	L						

HOLDING: HOLDING TYPE OF ACTION: CANCEL

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S		WP	184.00	004.00	R	4	2800 14000	5 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (26-130460)	434209.85N/0844320.66W	1362	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 5W (1995).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V320					(US)
IAP	RNAV (GPS) RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 9			KAMN	ALMA	MI (US)
IAP	VOR RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 27			KROB	BIG RAPIDS	MI (US)
IAP	RNAV (GPS) RWY 25			KCAD	CADILLAC	MI (US)
IAP	RNAV (GPS) RWY 4		1	48D	CLARE	MI (US)
IAP	RNAV (GPS) RWY 27			KGDW	GLADWIN	MI (US)
IAP	RNAV (GPS) RWY 24			KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6			KIKW	MIDLAND	MI (US)
IAP	VOR-A			KIKW	MIDLAND	MI (US)
IAP	ILS OR LOC RWY 23			KMBS	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 5			KMBS	SAGINAW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. DOCKET: ADDED "23-AGL-41"
2. FIX USE: REMOVED EN ROUTE "V233"

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A423	NAME: HENRY BRADSHAW
APPROVED BY:	DATE: 04/17/2025	OFFICE: AJV-A423	NAME: ALLAN WILL

SIGNATURE: Digitally signed by
ALLAN WILL
Nov 05, 2024

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PELLSTON VORTAC STATE: MI COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 453750.33N/0843950.79W TYPE:
 AIRSPACE DOCKET: 23-AGL-12 FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	PELLSTON	PLN	VORTAC	L							17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	PLN	VORTAC	066.00	246.00	R	1		2400	10000	4	9
2	W	PLN	VORTAC	262.15	082.15	R	1		2800	10000	4	9
3	S	PLN	VORTAC	191.66	011.66	R	1		2400	10000	4	9
4	NE		WP	066.00	246.00	R		4	2400	10000	5	10
5	W		WP	254.53	074.53	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001896)	453923.00N/0843742.00W	1200	5D
2	200	AAO	453239.00N/0845118.00W	1273	4E
3	200	TOWER (26-001896)	453923.00N/0843742.00W	1200	5D
4	200	TOWER (26-001896)	453923.00N/0843742.00W	1200	5D
5	200	AAO	453210.46N/0845147.02W	1378	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193					(US)
EN ROUTE	V609					(US)
EN ROUTE	V78					(US)
IAP	RNAV (GPS) RWY 27			KSJX	BEAVER ISLAND	MI (US)
IAP	RNAV (GPS) RWY 10			6Y1	BOIS BLANC ISLAND	MI (US)
IAP	RNAV (GPS) RWY 28		5	6Y1	BOIS BLANC ISLAND	MI (US)
IAP	RNAV (GPS) RWY 9			N98	BOYNE CITY	MI (US)
IAP	RNAV (GPS) RWY 17			KBFA	BOYNE FALLS	MI (US)
IAP	RNAV (GPS) RWY 27			KCVX	CHARLEVOIX	MI (US)
IAP	RNAV (GPS) RWY 10			KSLH	CHEBOYGAN	MI (US)
IAP	RNAV (GPS) RWY 28			KSLH	CHEBOYGAN	MI (US)
IAP	VOR RWY 10		2	KSLH	CHEBOYGAN	MI (US)
IAP	RNAV (GPS) RWY 26			KMCD	MACKINAC ISLAND	MI (US)
IAP	RNAV (GPS) RWY 8			KMCD	MACKINAC ISLAND	MI (US)
IAP	VOR/DME-A		3	KMCD	MACKINAC ISLAND	MI (US)
IAP	RNAV (GPS) RWY 23			KPLN	PELLSTON	MI (US)
IAP	RNAV (GPS) RWY 32		4	KPLN	PELLSTON	MI (US)
IAP	VOR RWY 23		1	KPLN	PELLSTON	MI (US)
IAP	RNAV (GPS) RWY 27			KPZQ	ROGERS CITY	MI (US)
IAP	RNAV (GPS) RWY 9			KPZQ	ROGERS CITY	MI (US)
IAP	NDB RWY 34			KCIU	SAULT STE MARIE	MI (US)
IAP	RNAV (GPS) RWY 10			KCIU	SAULT STE MARIE	MI (US)
IAP	RNAV (GPS) RWY 28			KCIU	SAULT STE MARIE	MI (US)
IAP	RNAV (GPS) RWY 25			83D	ST. IGNACE	MI (US)
IAP	RNAV (GPS) RWY 7			83D	ST. IGNACE	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 22

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. CHANGED AIRSPACE DOCKET FROM "23-AGL-41" TO "23-AGL-12".
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN



APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by***ALLAN WILL**

Nov 05, 2024

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: POMPE

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 431158.48N/0844307.11W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L	237.86	234.86	34.42	34.42		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V274	1		KAMN	ALMA	(US)
IAP	RNAV (GPS) RWY 9					MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. DELETED "INT" AND ADDED "WP" IN FIX TYPE.
2. DELETED MOP IN FIX MAKE-UP FACILITIES -- MOP VOR MON.
3. DELETED ALL REFERENCES TO UNPLANNED HOLDING.
4. DELETED REMARK "PRECIPITOUS TERRAIN EVALUATION COMPLETED".
5. DELETED "FAC 2" FROM EN ROUTE V274 IN FIX USE.
6. DELETED "CONTROLLER" AND ADDED "CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: SAGINAW VOR/DME

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 433153.93N/0840438.29W

TYPE:

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L						17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NW	MBS	VOR/DME	305.00	125.00	R	1	3000 10000	4 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001850)	433356.18N/0841714.31W	1055	1A
1	310	TOWER (26-002117)	432442.00N/0841319.00W	1140	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
MBS VOR/DME MAG VAR 3W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V133					(US)
EN ROUTE	V274					(US)
EN ROUTE	V45					(US)
EN ROUTE	V609					(US)
EN ROUTE	V78					(US)
IAP	RNAV (GPS) RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 27			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 17			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 22			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 35			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 4			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 24			KCFS	CARO	MI (US)
IAP	VOR-A			KCFS	CARO	MI (US)
IAP	RNAV (GPS) RWY 27			KGDW	GLADWIN	MI (US)
IAP	ILS OR LOC RWY 10R			KLAN	LANSING	MI (US)
IAP	RNAV (GPS) RWY 24			KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6			KIKW	MIDLAND	MI (US)
IAP	VOR-A			KIKW	MIDLAND	MI (US)
IAP	VOR/DME RWY 29			KRNP	OWOSSO	MI (US)
IAP	ILS OR LOC RWY 28		1	KHYX	SAGINAW	MI (US)
IAP	RNAV (GPS) RWY 10			KHYX	SAGINAW	MI (US)
IAP	RNAV (GPS) RWY 28			KHYX	SAGINAW	MI (US)
IAP	VOR/DME-A		1	KHYX	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 23			KMBS	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 5			KMBS	SAGINAW	MI (US)
IAP	VOR RWY 14			KMBS	SAGINAW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: SKIPR

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 444954.17N/0852406.38W

TYPE: WP, DME

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	TRAVERSE CITY	TVC	VOR/DME	VH	034.77	032.77	11.70	11.70		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193	1				(US)
IAP	RNAV (GPS) RWY 2			KACB	BELLAIRE	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: TIDDU

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 445240.72N/0852135.16W

TYPE: WP, DME

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	TRAVERSE CITY	TVC	VOR/DME	VH	034.76	032.76	15.00	15.00	3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE		WP	037.89	217.89	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	450124.00N/0851545.00W	1149	

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V193	1	1	KTVC	TRAVERSE CITY	(US)
IAP	RNAV (GPS) RWY 36					MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. "HOLDING LIMITED TO ESTABLISHED PATTERN" MOVED FROM FIX RESTRICTIONS TO HOLDING RESTRICTIONS.
3. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: TRAVERSE CITY VOR/DME STATE: MI COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 444004.50N/0853300.04W TYPE:

AIRSPACE DOCKET: 23-AGL-12 FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	TRAVERSE CITY	TVC	VOR/DME	VH						45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S	TVC	VOR/DME	160.00	340.00	R	1	3000 6000	4 12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001838)	443246.00N/0852506.00W	1502	5D
1	310	TOWER (26-001762)	442312.20N/0852232.60W	1704	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: W02/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J548					(US)
EN ROUTE	V133					(US)
EN ROUTE	V193					(US)
EN ROUTE	V420					(US)
IAP	HI-ILS OR LOC RWY 1			KAPN	ALPENA	MI (US)
IAP	HI-TACAN RWY 19			KAPN	ALPENA	MI (US)
IAP	HI-VOR OR TACAN RWY 1			KAPN	ALPENA	MI (US)
IAP	RNAV (GPS) RWY 25			KCAD	CADILLAC	MI (US)
IAP	RNAV (GPS) RWY 7			KCAD	CADILLAC	MI (US)
IAP	RNAV (GPS) RWY 9			KCVX	CHARLEVOIX	MI (US)
IAP	ILS OR LOC RWY 28		1	KTVC	TRAVERSE CITY	MI (US)
IAP	ILS OR LOC RWY 10		1	KTVC	TRAVERSE CITY	MI (US)
IAP	RNAV (GPS) RWY 28			KTVC	TRAVERSE CITY	MI (US)
IAP	VOR-A		1	KTVC	TRAVERSE CITY	MI (US)
STAR	WYNDE (RNAV)			KORD	CHICAGO	IL (US)

REQUIRED CHARTING: STAR, MILITARY IAP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VANNY

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 432147.50N/0850053.78W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L	259.47	256.47	42.21	42.21		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MBS	VOR/DME	R-259	43	3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FAC 1 RETAINED FOR USE AS ATC COORDINATION FIX.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 28			6D6	GREENVILLE	MI (US)
IAP	RNAV (GPS) RWY 28			13C	LAKEVIEW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. DELETED "INT" IN FIX TYPE.
2. DELETED MOP IN FIX MAKE-UP FACILITIES -- MOP VOR MON.
3. DELETED REMARK "SAGINAW (FAC 1) AND MOUNT PLEASANT (FAC 2) USED TO ESTABLISH FIX COORDINATES".
4. DELETED "FAC 2" FROM REMARK REFERENCING ATC COORDINATION FIX.
5. DELETED EN ROUTE V320 IN FIX USE.
6. DELETED "CONTROLLER" AND ADDED "CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: ZOLOX

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 441237.65N/0851124.83W

TYPE: WP

AIRSPACE DOCKET: 23-AGL-12

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 9

FAC

PAT

AIRPORT IDENT
KGDW

CITY
GLADWIN

STATE
MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED "DME" IN FIX TYPE.
3. DELETED TVC IN FIX MAKE-UP FACILITIES -- NO GROUND BASED USE.
4. DELETED EN ROUTE V320 IN FIX USE.
5. DELETED "EN ROUTE LOW, CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 04/17/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Nov 05, 2024

QUALITY
18
CHECKED