

RADIO FIX AND HOLDING DATA RECORD

NAME: GIPPER VORTAC

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414607.00N/0861906.43W

TYPE:

AIRSPACE DOCKET:

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	GIPPER	GIJ	VORTAC	H						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	N	GIJ	VORTAC	000.87	180.87	L	1	2300 10000	4 9
2	W	GIJ	VORTAC	281.93	101.93	R	1	2400 10000	4 9
3	W	GIJ	VORTAC	270.00	090.00	R	1 1/2	18000 45000	16 29
4	E		WP	090.00	270.00	R		6000 10000	15 15
5	SW	GIJ	VORTAC	225.92	045.92	L	1	2500 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001350)	415251.00N/0861813.00W	1250	5D
2	200	TOWER (18-001917)	414435.00N/0863125.00W	1180	5D
4	230	TOWER (18-001499)	414457.00N/0860711.00W	1300	5D
5	200	TOWER (18-000073)	414228.00N/0862906.00W	1179	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

PATTERN 4: EVALUATED AT 10 DME LEG LENGTH AT ATC REQUEST.

ASSIGNED FACILITY MAG VAR: 00E 1965HI

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
EN ROUTE	J146		3			(US)
EN ROUTE	J554		3			(US)
EN ROUTE	V10					(US)
EN ROUTE	V228					(US)
EN ROUTE	V526					(US)
IAP	ILS OR LOC RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 18			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 36			KEKM	ELKHART	IN (US)
IAP	VOR RWY 9		2	KEKM	ELKHART	IN (US)
IAP	ILS OR LOC RWY 27		1	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 02			KPPO	LA PORTE	IN (US)
IAP	RNAV (GPS) RWY 20			KPPO	LA PORTE	IN (US)
IAP	ILS OR LOC RWY 27L		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS OR LOC RWY 9R		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS RWY 27L (SA CAT I&II)		1	KSBN	SOUTH BEND	IN (US)
IAP	VOR RWY 18		1	KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 5			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 15			3TR	NILES	MI (US)
IAP	RNAV (GPS) RWY 33			3TR	NILES	MI (US)
IAP	VOR-A		5	3TR	NILES	MI (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 39

DATE OF REVISION: 11/27/2025

REASON FOR REVISION:

FIX USE: REMOVED V55. REMOVED C91 RNAV (GPS) RWY 09 IAP. REMOVED KMDW FISSK (RNAV) AND PANGG (RNAV) STARS. ADDED KSNB ILS OR LOC RWY 9R, ILS OR LOC RWY 27L AND ILS RWY 27L (SA CAT I&II) IAPS. ADDED KGSH ILS OR LOC RWY 27 AND KEKM VOR RWY 9 IAPS.
REQUIRED CHARTING: REMOVED STAR.

INITIATED BY:**DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A421

NAME: BARRY SMITH**APPROVED BY:****DATE:** 10/23/2025**OFFICE:** AJV-A421**NAME:** CASEY HILL**SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: JUBLA

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415937.11N/0862345.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	274.90	094.90	R	4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPD	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-000450)	415742.00N/0862102.00W	1224	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 27		1	C91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 9		1	C91	DOWAGIAC	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/29/2010

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/18/2010

OFFICE: AVN-120

NAME: JOSE ALFONSO (LONNIE EVERHART)

APPROVED BY:

DATE: 06/09/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: SBN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 420839.88N/0860721.74W TYPE:

AIRSPACE DOCKET: 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	KEELER	ELX	VOR/DME	L						17500

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	E		WP	086.00	266.00	L	4	2500 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-002131)	421202.20N/0855815.00W	1284	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC REQUEST

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V100					(US)
EN ROUTE	V277					(US)
EN ROUTE	V55					(US)
IAP	ILS OR LOC RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 10		1	KBEH	BENTON HARBOR	MI (US)
IAP	RNAV (GPS) RWY 27			C91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 9			C91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 5			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 23			KLWA	SOUTH HAVEN	MI (US)
IAP	RNAV (GPS) RWY 5			KLWA	SOUTH HAVEN	MI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 32 DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

DELETED PAT 1 AND ASSOCIATED DATA.
DELETED KBEH: VOR RWY 28 FROM FIX USE.
DELETED KORD: O'HARE DP.
DELETED "DP" FROM REQUIRED CHARTING.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: THERON CYRUS

APPROVED BY: DATE: 10/23/2025 OFFICE: AJV-A421 NAME: DAVID DANNER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MAPER

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420143.77N/0864408.03W

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	GIPPER	GIJ	VORTAC	H	310.00	310.00	24.35	24.35		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V526	1				(US)
IAP	RNAV (GPS) RWY 18			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 9L			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 9R			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 9			C91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 15			3TR	NILES	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 11/27/2025

REASON FOR REVISION:

TYPE: REMOVED INT.

FIX MAKE-UP FACILITIES: REMOVED FAC 1 (ELX) - ELX VOR MON.

REMARKS: REMOVED FIX COORDINATES REMARK.

FIX USE: CHANGED V-526 TO V526 AND REMOVED FAC 2.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: BARRY SMITH

APPROVED BY:

DATE: 10/23/2025

OFFICE: AJV-A421

NAME: CASEY HILL

SIGNATURE: