Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 05/21/2012	Task #: 2012052129647602003	Request #: 20120521296476
Procedure: VOR RWY 18 AMDT 10		Airport ID: KOTG	Airport: WORTHINGTON MUNI		Reimbursable #:
City: WORTHINGTON	ST: MN	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID: OTG	Fac. Type: VDME	Specialist: GRACE NOWAK			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/21/2012	08/28/2012	JILL OLSON	
QA:	08/28/2012	09/11/2012	STEVEN SZUKALA	
Liaison:	09/11/2012		Szukala	MAGVAR

MAG VAR

P3

Procedure Comments:

Remark Type: INFORMATION

pkg 6.flo

WORTHINGTON, MN WORTHINGTON MUNI (KOTG) VOR RWY 18, AMDT 10 ENROUTE-NO FC: 11.27.12 PUB: 1.10.13

ATTACHED FORMS: 8260-5; 8260-10; 8260-9; 8260-2(S): BILOO-INT, REV 6; WORTHINGTON (OTG) VDME, REV 9.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

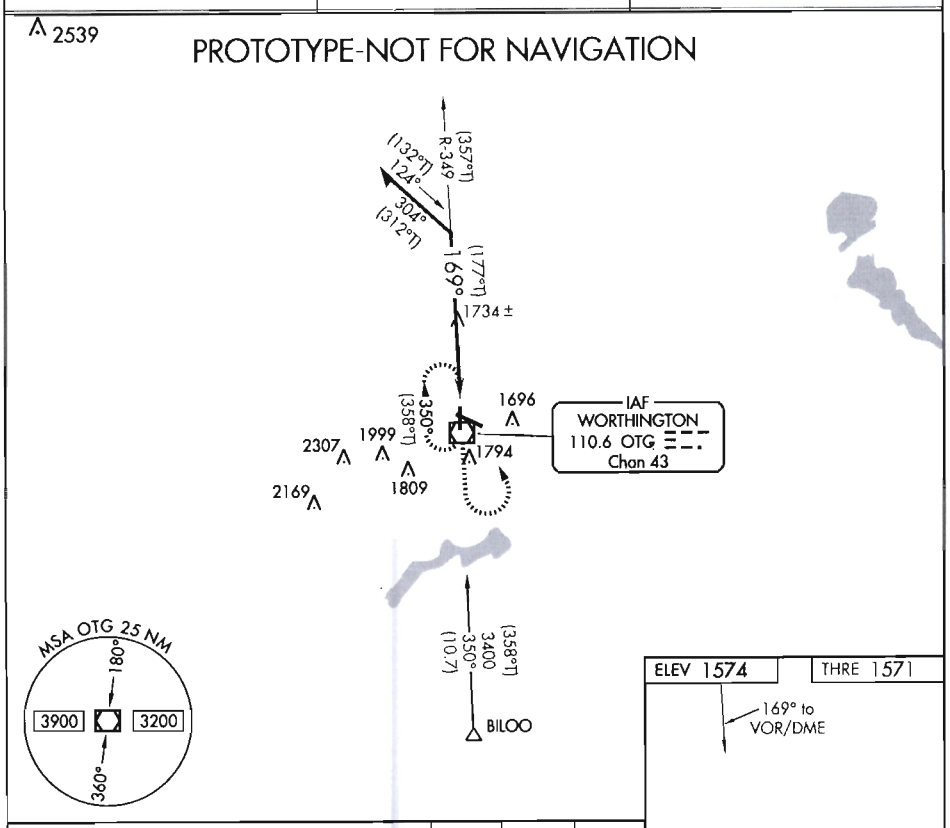
VOR/DME OTG	APP CRS	Rwy ldg	4200
110.6	169°	THRE	1571
Chan 43		Apt Elev	1574

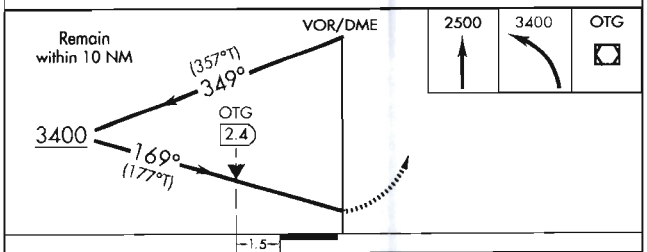
VOR RWY 18
WORTHINGTON MUNI (OTG)

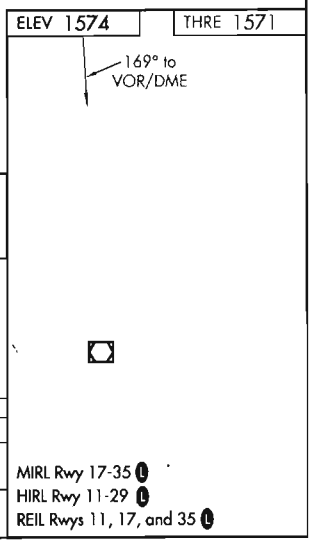
VDP NA with Jackson altimeter setting. When local altimeter setting not received, use Jackson altimeter setting and increase all MDA 80 feet and increase S-18 Cats C/D visibility 3/8 mile and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2500 then climbing left turn to 3400 direct OTG VOR/DME and hold, continue climb-in-hold to 3400.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
110.6	132.05 317.4	122.8 (CTAF) L

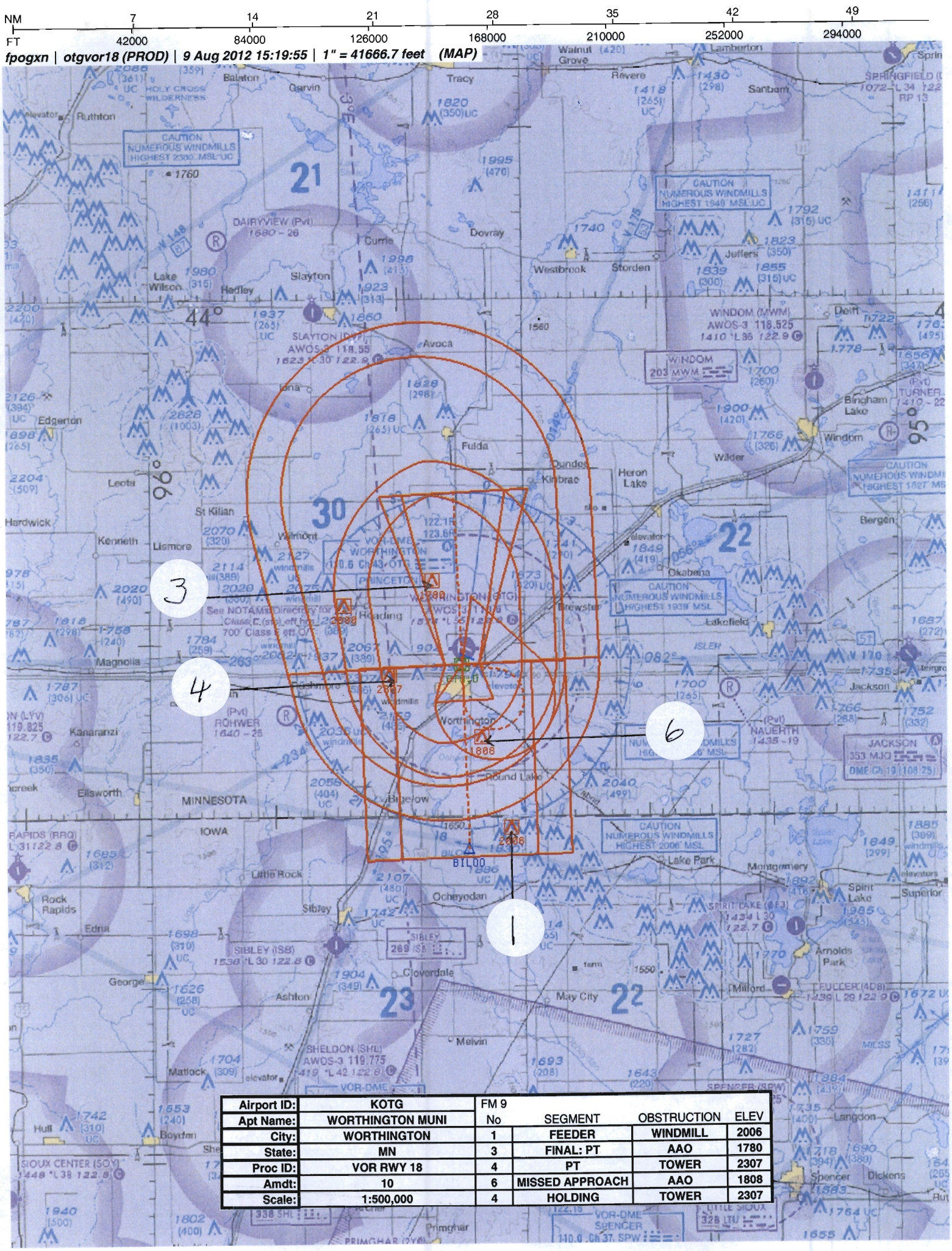




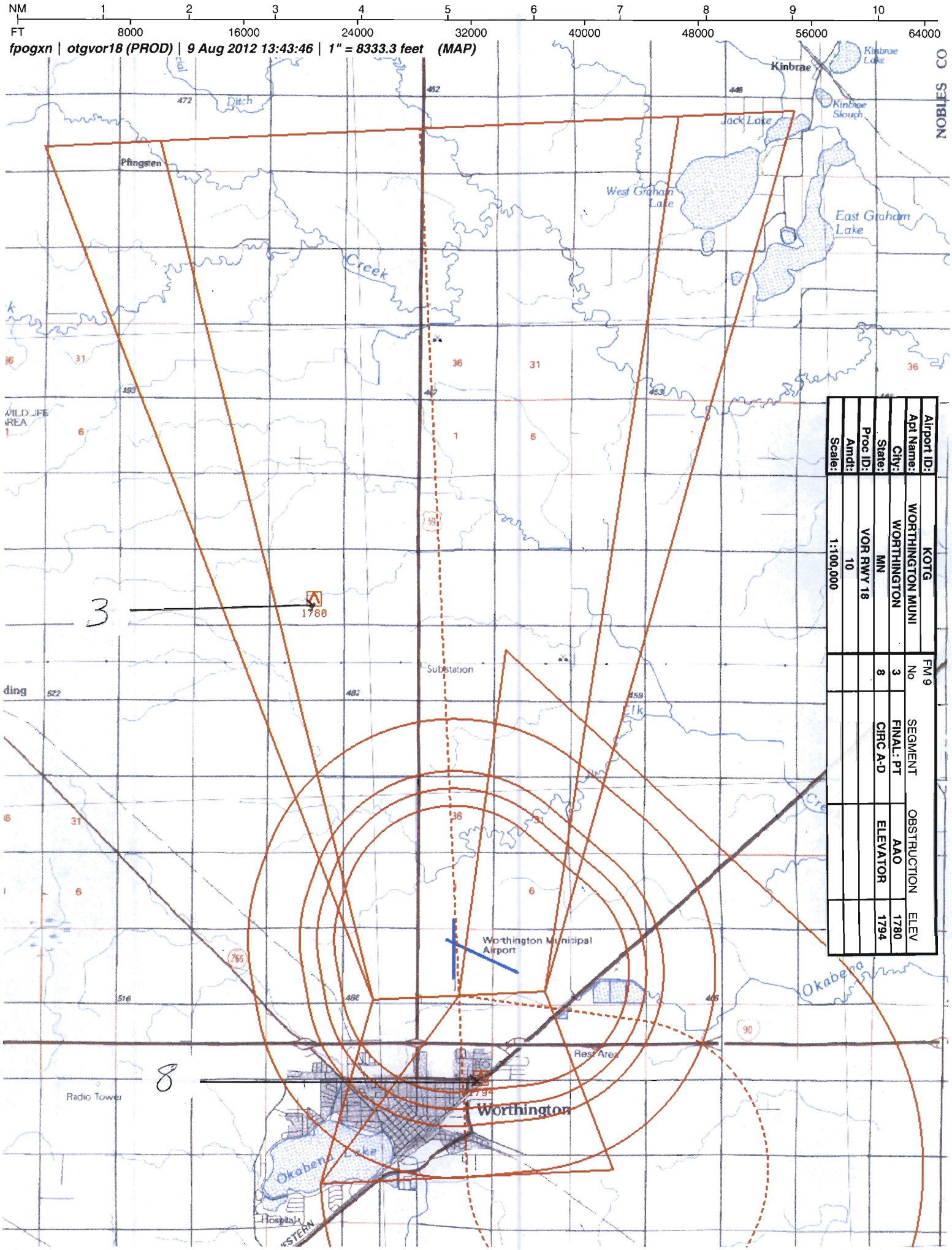


CATEGORY	A	B	C	D
S-18	2080-1 509 (600-1)		2080-1⅜ 509 (600-1⅜)	
CIRCLING	2100-1 526 (600-1)		2100-1½ 526 (600-1½)	2140-2 566 (600-2)

MIRL Rwy 17-35 L
HIRL Rwy 11-29 L
REIL Rwys 11, 17, and 35 L



Airport ID:	KOTG	FM 9			
Apt Name:	WORTHINGTON MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	WORTHINGTON	1	FEEDER	WINDMILL	2006
State:	MN	3	FINAL: PT	AAO	1780
Proc ID:	VOR RWY 18	4	PT	TOWER	2307
Amdt:	10	6	MISSED APPROACH	AAO	1808
Scale:	1:500,000	4	HOLDING	TOWER	2307


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpogxn | otgvor18 (PROD) | 9 Aug 2012 13:43:46 | 1" = 8333.3 feet (MAP)
NOBLES CO
Kinbrae
Kinbrae Lake
Kinbrae Slough
Jack Lake
West Graham Lake
East Graham Lake
Pfingsten
Ditch
Creek
Substation
Worthington Municipal Airport
Rest Area
Radio Tower
Worthington
Okabena Lake
Okabena
Hospital
Airport ID: KOTG
Apt Name: WORTHINGTON MUNI
City: WORTHINGTON
State: MN
Proc ID: VOR RWY 18
Amdt: 10
Scale: 1:100,000
FM 9
No
SEGMENT
OBSTRUCTION
ELEV
3
FINAL: PT
AAO
1780
8
CIRC A-D
ELEVATOR
1794
3
8

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
BILOO INT	OTG VOR/DME	350.00 / 10.72	3400

MISSED APPROACH

MAP: OTG VOR/DME

CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 3400 DIRECT OTG VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3400.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 170.00 INBOUND.
FAS OBST: 1780 AAO 434318N/0953714W
CHART VDP AT 2.39 DME;
DISTANCE VDP TO THLD 1.50 MILES.
FAC CROSSES RWY C/L EXTENDED 3003 FROM THLD.

1. PT L SIDE OF COURSE 349.26 OUTBOUND 3400 FT WITHIN 10 MILES OF OTG VOR/DME (IAF)
2.
3. FAC 169.26 FAF DIST FAF TO MAP THLD
4. MIN. ALT
8. MSA FROM: OTG VOR/DME 360-180 3200, 180-360 3900

MAG VAR: 8E EPOCH YEAR:1965

MINIMUMS

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

ALTERNATE: N A

STANDARD @

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-18	2080	1	509	2080	1	509	2080	1 3/8	509	2080	1 3/8	509			
CIRCLING	2100	1	526	2100	1	526	2100	1 1/2	526	2140	2	566			

NOTES:

CHART NOTE: VDP NA WITH JACKSON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSON ALTIMETRER SETTING AND INCREASE ALL MDA 80 FEET AND INCREASE S-18 CATS C/D VISIBILITY 3/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 2

CITY AND STATE	ELEVATION: 1574 THRE: 1571	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP VOR or GPS RWY 17
WORTHINGTON, MN	AIRPORT NAME: WORTHINGTON MUNI	OTG	VOR RWY 18, AMDT 10	AMDT 9
				DATE 12/30/1999

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[X] YES [ ] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X] ZMP, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: GRACE NOWAK	FIFO AJV-353	DATE: 06/15/2012
APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. AMENDMENT REQUIRED, OTG VOR/DME MOVED 1.01 FT SOUTH, AND RWY 17 CHANGED TO RWY 18.
2. BILOO INT TO OTG VOR/DME ALTITUDE CHANGED FROM 3300 TO 3400.
3. MISSED APPROACH ALTITUDE CHANGE FROM 3300 TO 3400.
4. PROCEDURE TURN OUTBOUND COURSE CHANGED FROM 350 TO 349.26.
5. FINAL COURSE CHANGED FROM 170 TO 169.26.
6. FAC CROSSES RWY CENTERLINE EXTENDED FROM THRESHOLD CHANGED FROM 3000 TO 3003.
7. S-18 ALL CATS MDA/HATH CHANGED FROM 2000/426 TO 2080/509.
8. S-18 CATS C/D VISIBILITY CHANGED FROM 1 1/4 TO 1 3/8.
9. PROCEDURE CHART CHANGED FROM TDZE TO THRE.
10. ADDED VDP NOTE.
11. ADDED BACKUP ALTIMETER NOTE.
12. ADDED VGSI AND DESCENT ANGLES NOT COINCIDENT.
13. REMOVED "OR GPS" FROM PROCEDURE.
14. ADDED ALTERNATE MINUMUMS NOTE, NA WHEN LOCAL WEATHER NOT AVAILABLE.

SEE 8260-10

REASONS:

1. NEW AIRPORT SURVEY AND MAG VAR CHANGE FROM 8E TO 2E AND OGT VOR/DME NEW SURVEY.
2. MATCH INCREASED ALTITUDE IN PROCEDURE TURN.
3. ROUNDING UP IN ALTITUDE.
4, 5, 6. NEW OTG VOR/DME SURVEY MOVED NAVAID 1.01 FT SOUTH.
7, 8. NEW CONTROLLING OBSTACLE.
9. IAW 8260. 3, CHANGE 20, VOL 1, CHAP 3.
10. IAW 8260.3, CHANGE 20, VOL 1, PARA 251.
11. ADDED BACKUP ALTIMETER SOURCE
12. USED 42 FT TCH PER FPT REQUEST.
13. PER FPT REQUEST.
14. IAW 8260. 19D, PARA 855 F (5).
15. USED ON GPS OVERLAY.

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23

Bearings, headings, courses, 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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1574 THRE: 1571	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: VOR or GPS RWY 17
WORTHINGTON, MN	AIRPORT NAME: WORTHINGTON MUNI	OTG	VOR RWY 18, AMDT 10	AMDT: 9
				DATED: 12/30/1999

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.
15. REMOVED CNF ECDOK.

REASONS:

QUALITY 2 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	BILOO INT	OTG VOR/DME	1. WNDML (19-020182)	432856.44N/0953101.72W	2006 (5D)	1000	AT394	3400
			2. TERRAIN	433757.00N/0954021.00W	1709 (1700)		AS1500	3200
FINAL: PT	10 NM	OTG VOR/DME	3. AAO	434318.13N/0953714.45W	1780 (2C)	300		2080
2. PROCEDURE TURN	OTG VOR/DME	10 NM	4. TOWER (27-000001)	433748.00N/0954043.00W	2307 (4D)	1000		3400
			5. TERRAIN	434506.00N/0954321.00W	1778 (1800)		AS1500	3300
3. MISSED APPROACH MAP:	OTG VOR/DME	OTG VOR/DME				ASC		3400
			6. AAO	433412.00N/0953321.00W	1808 (4E)	1000		2900
ELEV:	1780		7. TERRAIN	433618.00N/0953712.00W	1615 (1600)		AS1500	3100

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	526	8. ELEV (27-000746)	433747.00N/0953433.00W	1794 (1A)	300		2100
CATEGORY B	1.5 NM	450	526	8. ELEV (27-000746)	433747.00N/0953433.00W	1794 (1A)	300		2100
CATEGORY C	1.7 NM	450	526	8. ELEV (27-000746)	433747.00N/0953433.00W	1794 (1A)	300		2100
CATEGORY D	2.3 NM	550	566	8. ELEV (27-000746)	433747.00N/0953433.00W	1794 (1A)	300	HAA	2140
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: OTG VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-180	TWR (19-000594)	187/ 15.1	2107 (2C)	3200					
180-360	TWR (27-001466)	306/ 21.9	2828 (5D)	3900					

CITY AND STATE	ELEVATION: 1574 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WORTHINGTON, MN	WORTHINGTON MUNI	OTG	VOR RWY 18, AMDT 10	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZMP ARTCC PNM FSS		N W S	OTHER: AWOS-3	SOURCE: KOTG / KMJQ
		F A A		DISTANCE: 0 / 25.82
		A / C		HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: X V H F X U H F H F	LOCATION:			ADJUSTMENT: 0 / 78

4. MONITOR STATUS	PRIMARY NAVAID: OTG VOR/DME	
	MONITOR POINT: PRN FSS	
	HRS OPTN: CAT 1	24
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 29 (PCL)
	X	HIRL 11 (PCL), 29 (PCL)
	X	MIRL 18 (PCL), 36 (PCL)
	X	REIL 11 (PCL), 18 (PCL), 36 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 11 (PCL), 18 (PCL), 36 (PCL), 29 (PCL)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 29
	INSTRUMENT	NPI-G 11, 18, 36
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 3003 FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: GRACE NOWAK	DATE: 06/15/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI: 30/3.00

RASS PRESSURE PATTERNS SAME
KOTG 1574, KMJQ 1447
RA = 77.20.
SEE ATTACHED AIRSPACE LETTER.

KOTG/KMJQ AWOS-3 ON SERVICE A.
VEGETATION HEIGHT 100 FT PER FPT.
42 FT TCH PER FPT.

RADIO FIX AND HOLDING DATA RECORD

NAME: BILOO **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 432806.10N/0953424.17W **TYPE:** WP, INT, DME

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	DIST FROM FAC FEET	MRA	MAA
1	SIOUX FALLS	FSD	VORTAC	H	092.24	101.24	53.80	53.80		3000	17500
2	WORTHINGTON	OTG	VOR/DME	L	170.00	178.00		10.72		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FSD	VORTAC	R-092	54	3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	174.16	354.16	R		4	3300	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (19-002378)	432421.00N/0953917.00W	2015	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SIOUX FALLS (FAC 1) AND WORTHINGTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V120	1, 2				
IAP	RNAV (GPS) RWY 15			KSHL	SHELDON	IA (US)
IAP	NDB RWY 17			KISB	SIBLEY	IA (US)
IAP	NDB RWY 35			KISB	SIBLEY	IA (US)
IAP	RNAV (GPS) RWY 18		1	KOTG	WORTHINGTON	MN (US)
IAP	RNAV (GPS) RWY 36		1	KOTG	WORTHINGTON	MN (US)
IAP	VOR RWY 18	1, 2		KOTG	WORTHINGTON	MN (US)
IAP	VOR RWY 36	1, 2		KOTG	WORTHINGTON	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATED FIX USE.
ADDED HOLDING PATTERN.
ADDED HOLDING LIMITED TO ESTABLISHED PATTERN REMARK.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.

DEVELOPED BY: **DATE:** 06/14/2012 **OFFICE:** AJV-353 **NAME:** GRACE NOWAK

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WORTHINGTON VOR/DME **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433848.90N/0953455.05W **TYPE:**

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	DIST FROM FAC FEET	MRA	MAA
1	WORTHINGTON	OTG	VOR/DME	L							33000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	OTG	VOR/DME	350.00	170.00	R	1		3400	14000	4	12
2	E	OTG	VOR/DME	082.00	262.00	R	1		3300	14000	4	10
3	E		WP	082.00	262.00	R		4	3400	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000001)	433748.00N/0954043.00W	2307	4D
1	310	TOWER (27-000001)	433748.00N/0954043.00W	2307	4D
2	200	TOWER (27-000001)	433748.00N/0954043.00W	2307	4D
3	200	TOWER (27-000001)	433748.00N/0954043.00W	2307	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 18	KOTG	WORTHINGTON	MN (US)
1	VOR RWY 36	KOTG	WORTHINGTON	MN (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SCHEP			KANE	MINNEAPOLIS	MN (US)
DP	SCHEP			KFCM	MINNEAPOLIS	MN (US)
DP	SCHEP			KMSP	MINNEAPOLIS	MN (US)
DP	SCHEP			KSTP	ST PAUL	MN (US)
EN ROUTE	V170					MN (US)
EN ROUTE	V175					MN (US)
EN ROUTE	V250					MN (US)
IAP	GPS RWY 16			KRRQ	ROCK RAPIDS	IA (US)
IAP	RNAV (GPS) RWY 15			KSHL	SHELDON	IA (US)
IAP	RNAV (GPS) RWY 12			KSPW	SPENCER	IA (US)
IAP	NDB RWY 13			KMJQ	JACKSON	MN (US)
IAP	RNAV (GPS) RWY 13			KMJQ	JACKSON	MN (US)
IAP	RNAV (GPS) RWY 18			KLYV	LUVERNE	MN (US)
IAP	RNAV (GPS) RWY 36			KPQN	PIPESTONE	MN (US)
IAP	GPS RWY 35		3	KDVP	SLAYTON	MN (US)
IAP	RNAV (GPS) RWY 15			KJYG	ST JAMES	MN (US)
IAP	RNAV (GPS) RWY 33			KJYG	ST JAMES	MN (US)
IAP	RNAV (GPS) RWY 29			KTKC	TRACY	MN (US)
IAP	NDB RWY 17			KMWM	WINDOM	MN (US)
IAP	ILS OR LOC RWY 29			KOTG	WORTHINGTON	MN (US)
IAP	NDB RWY 29			KOTG	WORTHINGTON	MN (US)
IAP	RNAV (GPS) RWY 11			KOTG	WORTHINGTON	MN (US)
IAP	RNAV (GPS) RWY 18			KOTG	WORTHINGTON	MN (US)
IAP	RNAV (GPS) RWY 29			KOTG	WORTHINGTON	MN (US)
IAP	RNAV (GPS) RWY 36			KOTG	WORTHINGTON	MN (US)
IAP	VOR RWY 11		2	KOTG	WORTHINGTON	MN (US)
IAP	VOR RWY 18		1	KOTG	WORTHINGTON	MN (US)
IAP	VOR RWY 36		1	KOTG	WORTHINGTON	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:

QUALITY 2 CHECKED

FACILITY MOVED 1.01 FT SOUTH; NEW SURVEY.
UPDATED FIX COORDINATES.
UPDATED FIX USE.
ADDED C-I-H TO PATTERN #1.
INCREASED PATTERN #1 MAX TEMPLATE FROM 10 TO 12.

DEVELOPED BY:	**DATE:** 06/14/2012	**OFFICE:** AJV-353	**NAME:** GRACE NOWAK
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WORTHINGTON** STATE: **MN**

AIRPORT NAME: **WORTHINGTON MUNI** ID: **KOTG**

PROCEDURE: **VOR RWY 18** AMDT: **10**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **FACILITY** to 1000' point **7.00**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **4.80**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **177.26**
4. High Terrain in **FINAL** segment containing 1000' point **1667**
5. Distance from **FACILITY** to 1500' point **7.00**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **4.80**
7. True Course of **FINAL** segment containing 1500' point **177.26**
8. High Terrain in **FINAL** segment containing 1500' point **1667**
9. Threshold Coordinates (if straight-in) ... **433941.75N** / **0953500.49W**
10. ARP Coordinates ..... **433918.20N** / **0953445.10W**
11. Runway Approach End and distance furthest from ARP ..... RWY **29**
    Distance **0.60** NM
12. FAF Coordinates ..... **NA** / **NA**

REMARKS: Approach/Drawing attached.

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry Strout, Manager, Terminal Procedures & Charting Services, Central Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

ILS OR LOC RWY 29, AMDT 1
NDB RWY 29, AMDT 1
RNAV (GPS) RWY 11, ORIG
RNAV (GPS) RWY 18, ORIG
RNAV (GPS) RWY 29, ORIG
RNAV (GPS) RWY 36, ORIG
TAKEOFF MINIMUMS AND OBSTACLE DP, AMDT 3
VOR RWY 11, AMDT 3
VOR RWY 18, AMDT 10
VOR RWY 36, AMDT 6

Estimated Chart Date: 11/15/2012

Runway Numbers are affected with the airport rotation; 17/35 change to 18/36, 11/29 will not be changed.

Please publish these changes in the National Flight Data Digest.

MINNESOTA

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Worthington	Worthington Muni	Airport	KOTG / OTG	Old 7° East New 2° East	2015
Worthington		ILS	OTG	Old 7° East New 2° East	2015
Worthington	WONDO	NDB/C (NDB/LOM)	OTGOT	Old 7° East New 2° East	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (301) 427-4750

cc: FTW-FPT, AVJ-3rf
AJV-353; LStrout:sbj::x7537:05/22/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Change Request for Worthington, MN (KOTG) 5-22-12
Requestor:GNowak, AJW-3762:CTerrell], Evaluated By:LFortier
OTGOT (WONDO) NDB/C

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 JOlson
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 LStrout
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 JAlfonso
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

RADIO FIX AND HOLDING DATA RECORD

NAME: ECDOK **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 434248.79N/0953506.55W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION: CANCEL**

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/05/1999

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

APPROVED BY: **DATE:** **OFFICE: AJV-353** **NAME: LARRY STROUT**

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED