Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/01/2010	Task #: 2010040925846901002	Request #: 20100409258469
Procedure: ILS OR LOC RWY 5 AMDT 15		Airport ID: KBUF	Airport: BUFFALO NIAGARA INTL		Reimbursable #:
City: BUFFALO	ST: NY	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID: GBI	Fac. Type: ILS	Specialist: DONALD SMITH(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	12/06/2011	04/02/2012	DONALD SMITH	
QA:	04/02/2012	04/02/2012	STEVEN SZUKALA	
Liaison:	04/02/2012		Alfonso	MAGVAR

MAG VAR

Procedure Comments:

Remark Type: INFORMATION

pics 7 of 9

BUFFALO, NY BUFFALO NIAGARA INTL (KBUF) ILS OR LOC RWY 5, AMDT 15 ENROUTE-NO FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): DUNKIRK (DKK) VTAC, REV 8; HIDUB-INT, REV 1; PLAZZ (GB) LOM, REV 5; WELLA-INT, REV 4; ZOBSO-INT, REV 4.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

LOC I-GBI	APP CRS	Rwy ldg	7757
108.5	053°	THRE	681
		Apt Elev	727

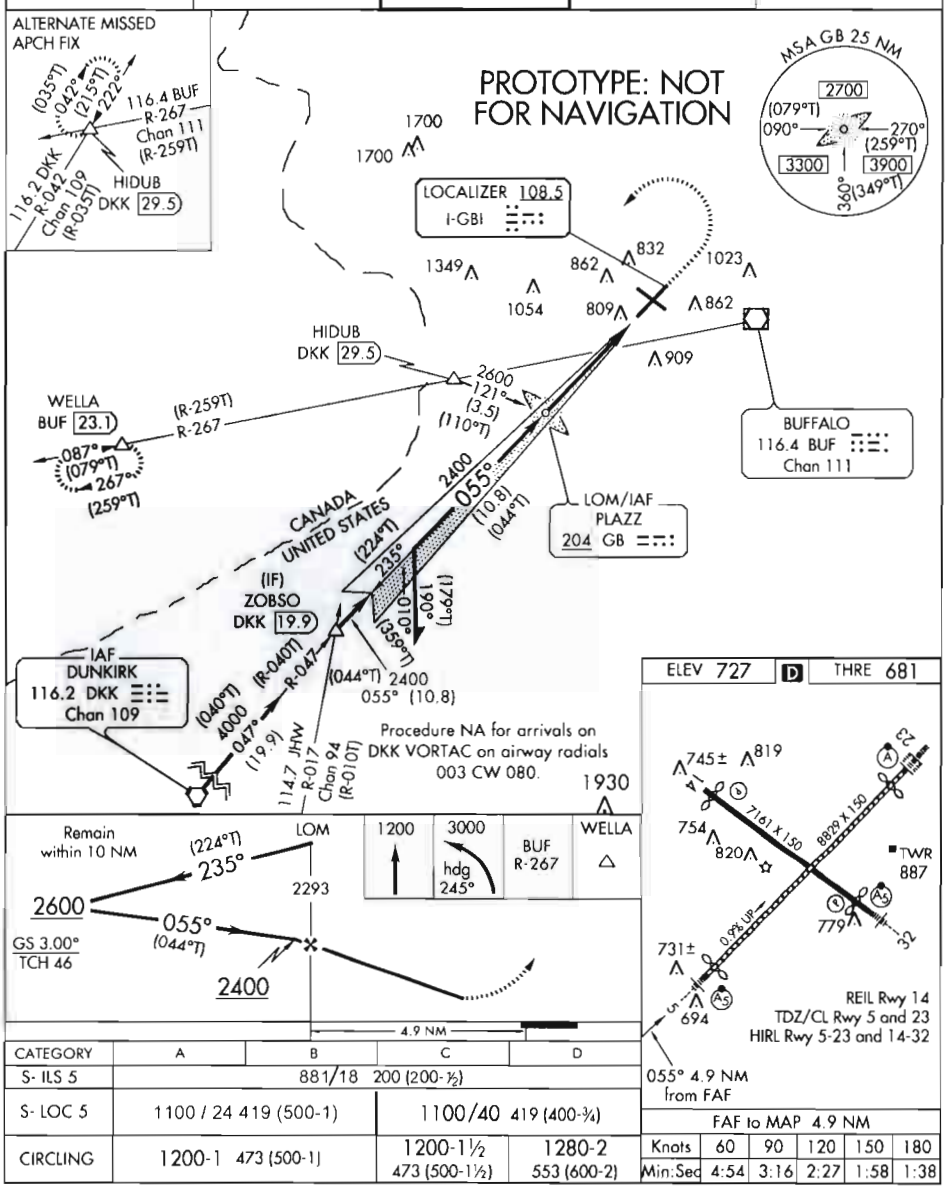
ILS or LOC RWY 5
BUFFALO NIAGARA INTL (BUF)

For inoperative MALSR, increase S-LOC 05 Cat C/D visibility to 1⅛ mile.

MALSR

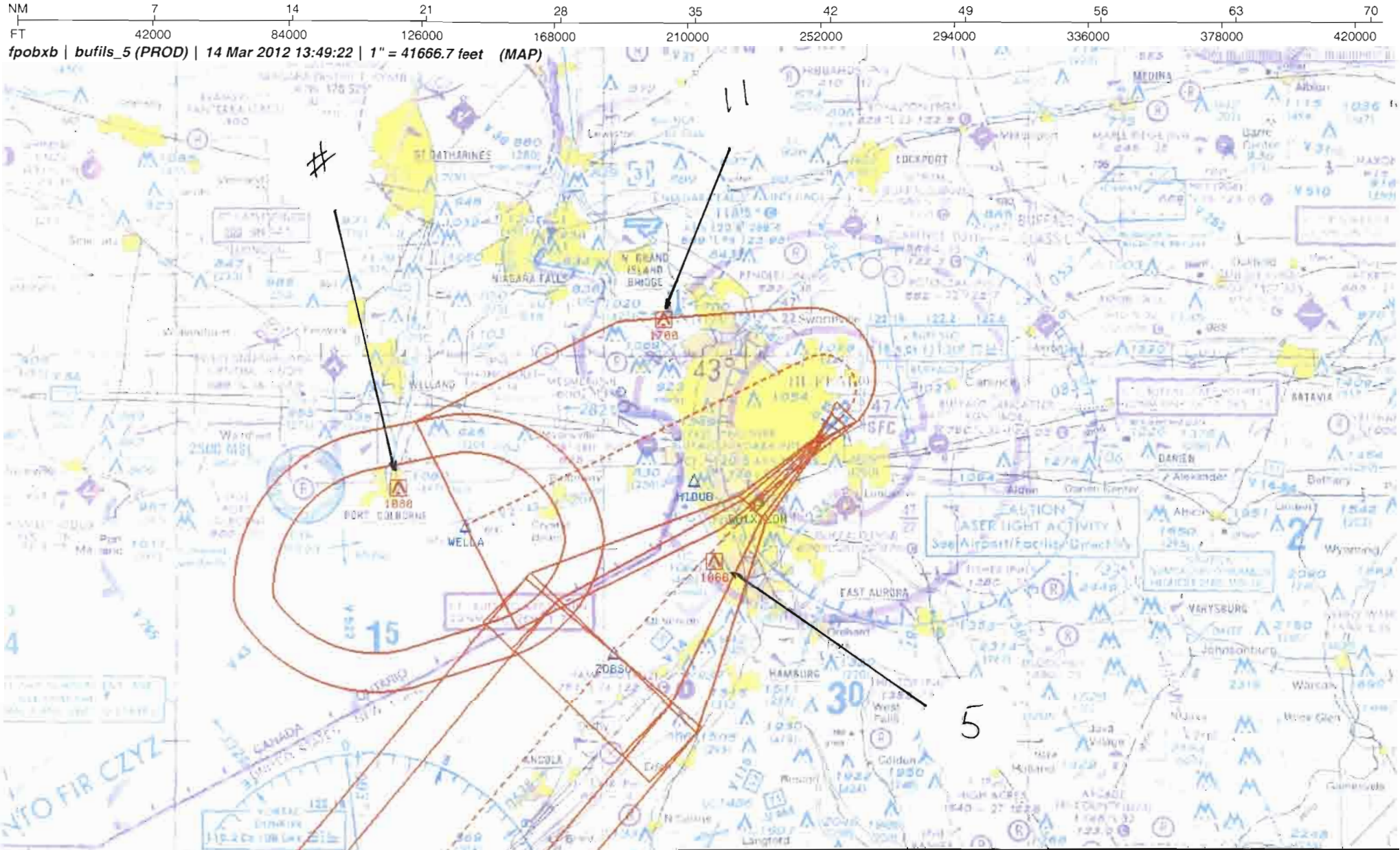
MISSED APPROACH: Climb to 1200 then climbing left turn to 3000 via heading 245° and BUF VOR/DME R-267 to WELLA INT/BUF 23.1 DME and hold.

ATIS	BUFFALO APP CON	BUFFALO TOWER	GND CON	CLNC DEL
135.35	126.15 263.125	120.5 257.8	133.2 257.8	124.7 257.8



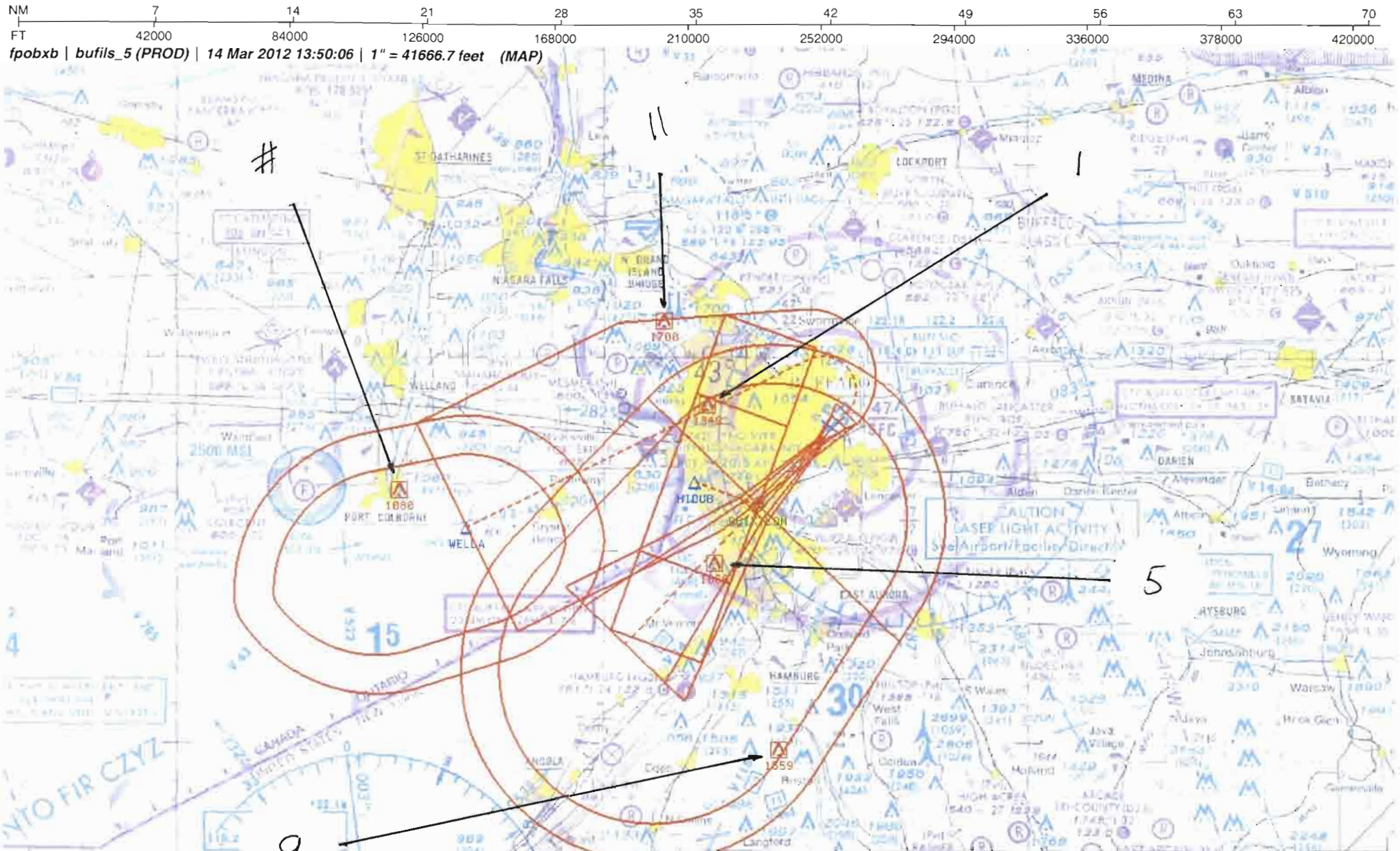
CATEGORY	A	B	C	D
S- ILS 5	881/18 200 (200-½)			
S- LOC 5	1100 / 24 419 (500-1)		1100/40 419 (400-¾)	
CIRCLING	1200-1 473 (500-1)		1200-1½ 473 (500-1½)	1280-2 553 (600-2)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



Airport ID:	KBUF
Apt Name:	BUFFALO NIAGARA INTL
City:	BUFFALO
State:	NEW YORK
Proc ID:	ILS OR LOC/DME
Amdt #:	AMDT 15
Rwy:	RWY 5
Scale:	1:500,000

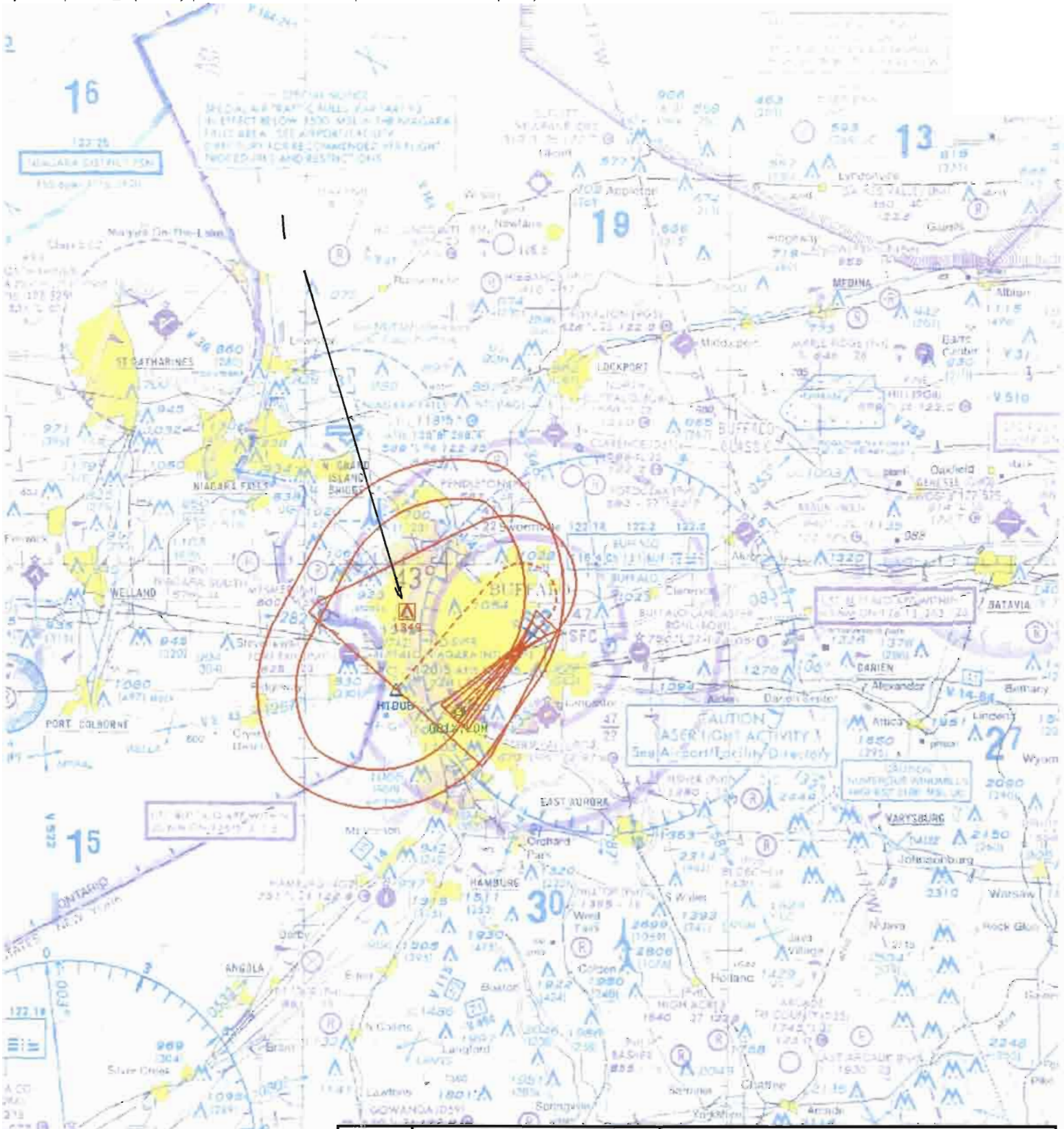
No	SEGMENT	OBSTRUCTION	ELEV
3	INITIAL	AAO	1450
5	INTERMEDIATE	WINDMILL	1066
11	MISSED	TOWER	1700
#	HOLDING	TOWER	1080



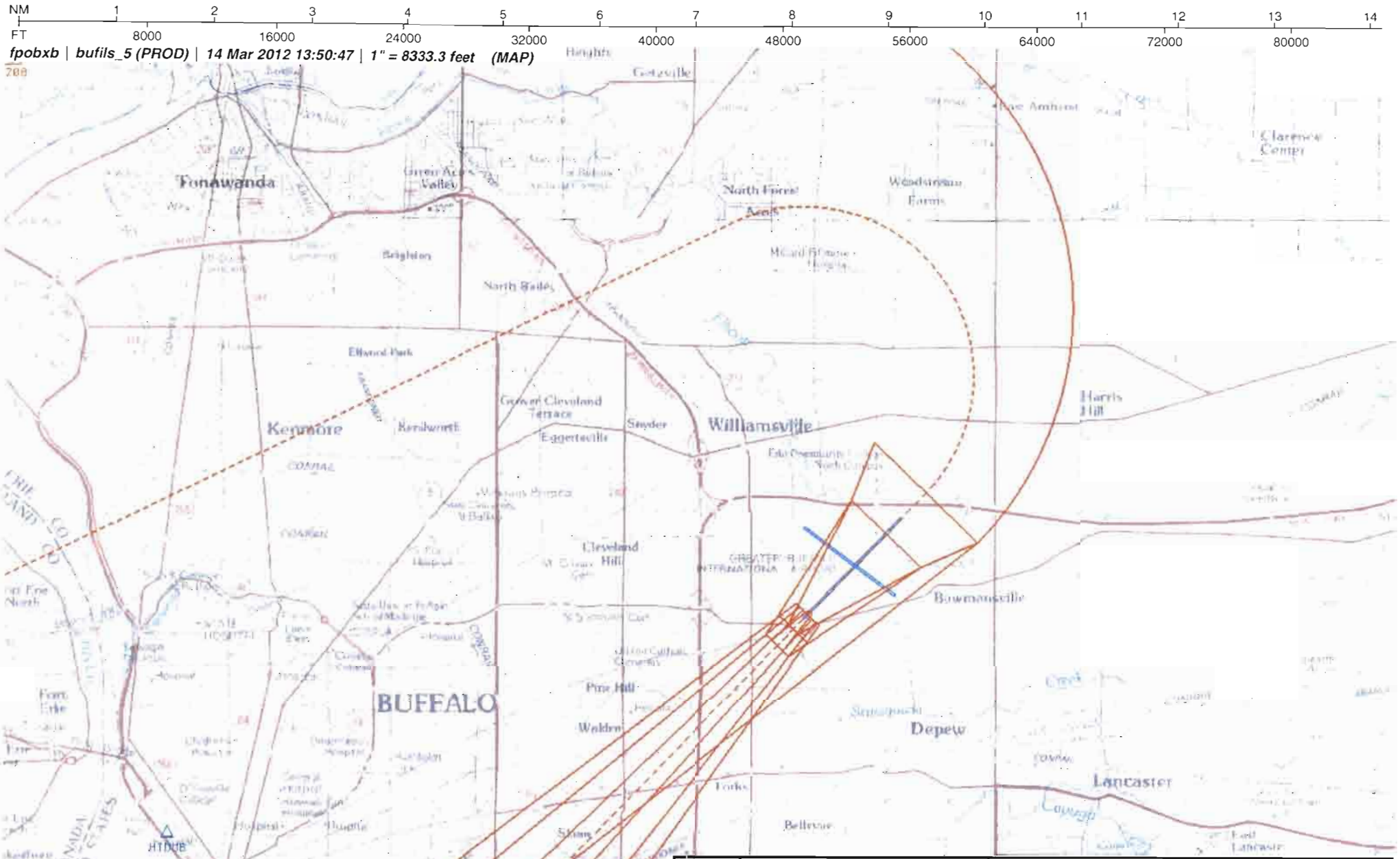
Airport ID:	KBUF	FM 9			
Apt Name:	BUFFALO NIAGARA INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	BUFFALO	1	FEEDER	TOWER	1349
State:	NEW YORK	9	INITIAL: PT	AAO	1559
Proc ID:	ILS OR LOC/DME	5	INTERMEDIATE	WINDMILL	1066
Amdt #:	AMDT 15	11	MISSED	TOWER	1700
Rwy:	RWY 5	#	HOLDING	TOWER	1080
Scale:	1:500,000				

NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

fpobxb | bufils_5 (PROD) | 15 Mar 2012 06:02:27 | 1" = 41666.7 feet (MAP)



Airport ID:	KBUF				
Apt Name:	BUFFALO NIAGARA INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	BUFFALO		FINAL	ASC	
State:	NEW YORK	1	MISSED	TOWER	1349
Proc ID:	ILS OR LOC/DME	1	HOLDING	TOWER	1349
Amdt #:	AMDT 15				
Rwy:	RWY 5				
Scale:	1:500,000		ALTERNATE	HOLDING	

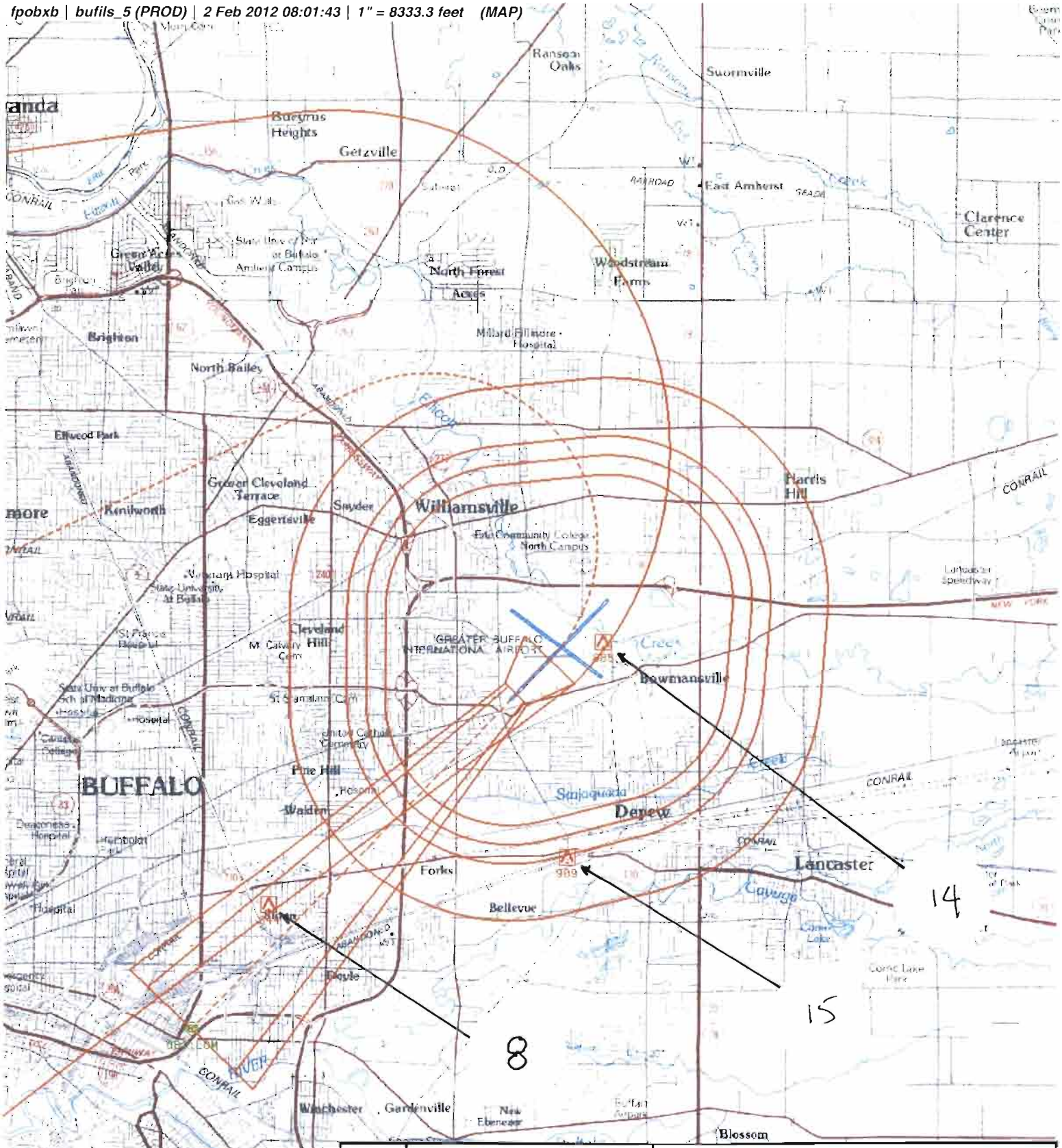


Airport ID:	KBUF				
Apt Name:	BUFFALO NIAGARA INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	BUFFALO		FINAL	ASC	
State:	NEW YORK				
Proc ID:	ILS OR LOC/DME				
Amdt #:	AMDT 15				
Rwy:	RWY 5				
Scale:	1:100,000				

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | bufils_5 (PROD) | 2 Feb 2012 08:01:43 | 1" = 8333.3 feet (MAP)

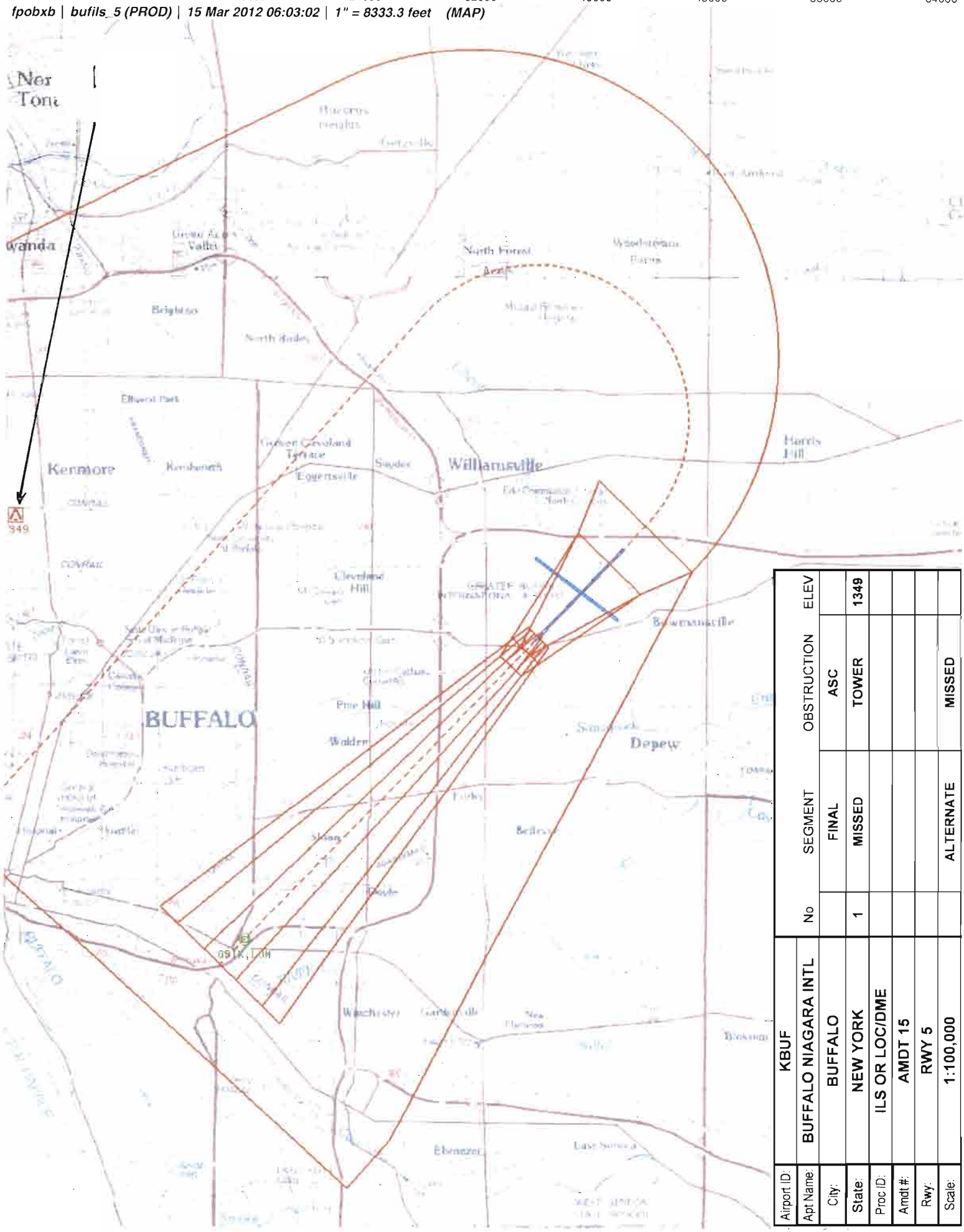


Airport ID:	KBUF				
Apt Name:	BUFFALO NIAGARA INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	BUFFALO	8	FINAL	AAO	844
State:	NEW YORK	14	CAT A/B/C CIRCLE	ANT	885
Proc ID:	ILS OR LOC/DME	15	CAT D CIRCLE	TOWER	909
Amdt #:	AMDT 15				
Rwy:	RWY 5				
Scale:	1:100,000				

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | bufils_5 (PROD) | 15 Mar 2012 06:03:02 | 1" = 8333.3 feet (MAP)



Airport ID:	KBUF					
Apt Name:	BUFFALO NIAGARA INTL					
City:	BUFFALO					
State:	NEW YORK					
Proc ID:	ILS OR LOC/DME					
Amdt #:	AMDT 15					
Rwy:	RWY 5					
Scale:	1:100,000					

No	SEGMENT	OBSTRUCTION	ELEV
	FINAL	ASC	
1	MISSED	TOWER	1349
	ALTERNATE	MISSED	

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HIDUB INT/DKK 29.53 DME	PLAZZ LOM	120.95 / 3.50	2600
DKK VORTAC (IAF)	ZOBSO INT/DKK 19.85 DME (NOPT)	046.91 / 19.85	4000
ZOBSO INT/DKK 19.85 DME (IF)	PLAZZ LOM	054.94 / 10.80	2400

MISSED APPROACH

ILS: DA
LOC: 4.86 MILES AFTER PLAZZ LOM

CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 245 AND BUF VOR/DME R-267 TO WELLA INT/BUF 23.09 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 270 AND ON DKK VORTAC R-042 TO HIDUB/DKK 29.53 DME AND HOLD, (DME REQUIRED).

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 087.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE HIDUB INT/DKK 29.53 DME, RT, 221.89 INBOUND.
FAS OBST: 844 AAO 425339N/0784754W
CHART: CYA 513

1. PT L SIDE OF COURSE 234.94 OUTBOUND 2600 FT WITHIN 10 MILES OF PLAZZ LOM (IAF)
2.
3. FAC: 054.94 FAF: PLAZZ LOM DIST FAF TO MAP: 4.86 THLD: 4.86
4. MIN. ALT: PLAZZ LOM 2400
5. DIST TO THLD FROM OM: 4.86 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 728
6. MIN GS INCPT: 2400 GS ALT AT: - OM: 2294 MM: - IM: -
7. GS ANGLE: 3.00 TCH: 45.6
8. MSA FROM: GB LOM 090-180 3900, 180-270 3300, 270-090 2700

MAG VAR: 11W EPOCH YEAR: 2015

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A ILS: STANDARD LOC: STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 5	881	1800	200	881	1800	200	881	1800	200	881	1800	200			
S-LOC 5	1100	2400	419	1100	2400	419	1100	4000	419	1100	4000	419			
CIRCLING	1200	1	473	1200	1	473	1200	1 1/2	473	1280	2	553			

NOTES:
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON DKK VORTAC AIRWAY RADIALS 003 CW 080.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 5 CAT C/D VISIBILITY TO 1 1/8 MILE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
BUFFALO, NY	BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED 11/23/2006

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]	[X]	[X]	[X] **ZOB, BUF APP CON, AMGR, NY DOT**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **DONALD E. SMITH (BRIAN BERUBEE)**	FIFO **AJV-352**	DATE: **02/16/2012**

APPROVED BY		
NAME: **DARRYEL ADAMS** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

1. CHANGED MAGVAR FROM 9W TO 11W
2. CHANGED FINAL COURSE FROM 052.94 TO 054.94
3. CHANGED DIST FAF TO MAP FROM 4.85 TO 4.86
4. RAISED GS INTCP ALTITUDE FROM 2300 TO 2400
5. CHANGED TCH FROM 45.3 TO 45.6
6. CHANGED PT OUTBOUND COURSE FROM 232.94 TO 234.94
7.LOWERED ILS DA FROM 906 TO 881
8. RAISED LOC MDA FROM 1080 TO 1100
9. RAISED S-LOC 5 VISIBILITY CAT C FROM 2400 TO 4000
10. CHANGED HIDUB FEEDER COURSE/DIST FROM 118.98/3.50 TO 120.95/3.50
11. CHANGED LOC INTERMEDIATE COURSE FROM 052.94 TO 054.94
12. CHANGED TDZE TO THRE
13. RAISED MSA 180-270 SECTOR ALTITUDE FROM 3200 TO 3300
14. LOWERED MSA SECTOR 270-090 ALTITUDE FROM 2800 TO 2700
SEE 8260-10

REASONS:

1. FPT REQUEST
2/13. MAGVAR
3/10/11. RECALCULATION
4. AT 2300 GS INTCP OCCURED INSIDE LOM
5. AVNIS
6. CONSISTENT WITH FINAL COURSE CHANGE
7. RECALCULATION USING THRE
8/9/13/14. OBSTACLE STUDY
12. SURVEY
15. CRITERIA

QUALITY 2 CHECKED

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QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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. ADDED INOP EQUIPMENT NOTE

REASONS:

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC PACKET - 424-18 - ILS

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SCANEAENRT   WELLA CY0    C   L N42511584W079093569                      W0105     NAR           WELLA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BUF   K6011640VDH  N42554439W078384683    N42554439W078384683W0080007302     NARBUFFALO
        SUSAD        DKK   K6011620VTH  N42292604W079162675    N42292604W079162675W0070006802     NARDUNKIRK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HIDUB K60    R   L N42533752W078532798                      W0107     NAR           HIDUB
        SUSAEAENRT   PLAZZ K60    C     N42522622W078485998                      W0107     NAR           PLAZZ LOM
        SUSAEAENRT   ZOBSO K60    R   L N42443876W078590947                      W0106     NAR           ZOBSO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6ABUF     0     088YHN42562550W078435010W011000727         1800018000C    MNAR    BUFFALO NIAGARA INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6FI05   ADKK   010DKK  K6D 0V  A    FC DKK K6      0000000004690179D   + 04000     18000                 0 NS
        SUSAP KBUFK6FI05   ADKK   020ZOBSOK6EA0EE B    CF IGBIK6      2350017104690020PI  + 04000                           0 NS
        SUSAP KBUFK6FI05   AHIDUB 010HIDUBK6EA0E       IF                                         18000                 0 NS
        SUSAP KBUFK6FI05   AHIDUB 020GB   K6PN0N       TF                                  + 02600                       0 NS
        SUSAP KBUFK6FI05   AHIDUB 030GB   K6PN0NE AR   PI IGBIK6      2349006318990100PI  + 02600                       0 NS
        SUSAP KBUFK6FI05   I      010ZOBSOK6EA0E  I    IF IGBIK6      23500171        PI  J 040000240018000             0 NS
        SUSAP KBUFK6FI05   I      020PLAZZK6EA0E  F    CF IGBIK6      2350006305500108PI  H 0240002294        -300GB    K6PN0 NS
        SUSAP KBUFK6FI05   I      030RW05 K6PG0GY M    CF IGBIK6      2350001405500049PI    00726             -300          0 NS
        SUSAP KBUFK6FI05   I      040         0  M     CA                     0549        + 01200                       0 NS
        SUSAP KBUFK6FI05   I      050         0    L   VIY                    2450                                      0 NS
        SUSAP KBUFK6FI05   I      060WELLACYEA0EY      CF BUF K6      2670023126700100D   + 03000                       0 NS
        SUSAP KBUFK6FI05   I      070WELLACYEA0EE  R   HM                     0870T010    + 03000                       0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6GRW05    0088290549 N42555612W078442508+0600    +01724006810535461 50IIGBI1
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: **BUFFALO NIAGARA INTL**	**I-GBI**	**ILS OR LOC RWY 5, AMDT 15**	AMDT: **14**
				DATED: **11/23/2006**

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.29

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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6IIGBI1   010850RW05 N42565844W0784303330549N42560404W0784422150469 07280458300W01104600692

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6SGB   K6PN                0   0902700272527036003925360090033 25                                                  M

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKBUFK6 GB    K6002040HOLW N42522600W078485923                      W0090          NARPLAZZ
```

QUAL... 1 CHECK

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	DKK	DKK	010	IAF	FC		FB		046.9()	017.9	AA 04000	
	DKK	ZOBSO	020		CF		FB		046.9()	002.0	AA 04000	
	HIDUB	HIDUB	010		IF		FB					
	HIDUB	GB	020		TF		FB				AA 02600	
	HIDUB	GB	030	IAF	PI	R	FB		189.9()	010.0	AA 02600	
		ZOBSO	010	FACF	IF		FB				AA 04000 GI 02400	
		PLAZZ	020	FAF	CF		FB		055.0()	010.8	GI 02400 GS 02294	
		RW05	030	MAP	CF		FO		055.0()	004.9	AT 00726	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		054.9()		AA 01200	
		050		VI	L	FB		245.0()			
	WELLA	060		CF		FO		267.0()	010.0	AA 03000	
	WELLA	070		HM	R	FO		087.0()	T01.0	AA 03000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
WELLA	N425115.84	W0790935.69	N4251.264	W07909.595
BUF	N425544.39	W0783846.83	N4255.740	W07838.781
DKK	N422926.04	W0791626.75	N4229.434	W07916.446
HIDUB	N425337.52	W0785327.98	N4253.625	W07853.466
PLAZZ	N425226.22	W0784859.98	N4252.437	W07849.000
ZOBSO	N424438.76	W0785909.47	N4244.646	W07859.158
RW05	N425556.12	W0784425.08	N4255.935	W07844.418
IGBI (LOC)	N425658.44	W0784303.33	N4256.974	W07843.056
GB	N425226.00	W0784859.23	N4252.433	W07848.987

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW05	00681	46

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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.

ARINC PACKET - 424-18 - LOC

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SCANEAENRT   WELLA CY0    C   L N42511584W079093569                      W0105     NAR           WELLA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BUF   K6011640VDH  N42554439W078384683    N42554439W078384683W0080007302     NARBUFFALO
        SUSAD        DKK   K6011620VTH  N42292604W079162675    N42292604W079162675W0070006802     NARDUNKIRK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HIDUB K60    R   L N42533752W078532798                      W0107     NAR           HIDUB
        SUSAEAENRT   PLAZZ K60    C     N42522622W078485998                      W0107     NAR           PLAZZ LOM
        SUSAEAENRT   ZOBSO K60    R   L N42443876W078590947                      W0106     NAR           ZOBSO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6ABUF     0     088YHN42562550W078435010W011000727         1800018000C    MNAR    BUFFALO NIAGARA INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6FL05   ADKK   010DKK  K6D 0V  A    FC DKK K6      0000000004690179D   + 04000     18000                 0 NS
        SUSAP KBUFK6FL05   ADKK   020ZOBSOK6EA0EE B    CF IGBIK6      2350017104690020PI  + 04000                           0 NS
        SUSAP KBUFK6FL05   AHIDUB 010HIDUBK6EA0E       IF                                     18000                 0 NS
        SUSAP KBUFK6FL05   AHIDUB 020GB   K6PN0N       TF                                  + 02600                           0 NS
        SUSAP KBUFK6FL05   AHIDUB 030GB   K6PN0NE AR   PI IGBIK6      2349006318990100PI  + 02600                           0 NS
        SUSAP KBUFK6FL05   L      010ZOBSOK6EA0E  I    IF IGBIK6      23500171        PI  + 04000     18000                 0 NS
        SUSAP KBUFK6FL05   L      020PLAZZK6EA0E  F    CF IGBIK6      2350006305500108PI  + 02400                 GB    K6PN0 NS
        SUSAP KBUFK6FL05   L      030RW05 K6PG0GY M    CF IGBIK6      2350001405500049PI    00726             -325          0 NS
        SUSAP KBUFK6FL05   L      040         0  M     CA                     0549        + 01200                           0 NS
        SUSAP KBUFK6FL05   L      050         0    L   VIY                    2450                                          0 NS
        SUSAP KBUFK6FL05   L      060WELLACYEA0EY      CF BUF K6      2670023126700100D   + 03000                           0 NS
        SUSAP KBUFK6FL05   L      070WELLACYEA0EE  R   HM                     0870T010    + 03000                           0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6GRW05    0088290549 N42555612W078442508+0600    +0172400681053546150IIGBI1
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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.

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6IIGBI1   010850RW05 N42565844W0784303330549N42560404W0784422150469 07280458300W01104600692

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6SGB   K6PN                0   0902700272527036003925360090033 25                                                    M

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKBUFK6 GB    K6002040HOLW N42522600W078485923                      W0090           NARPLAZZ
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	DKK	DKK	010	IAF	FC		FB		046.9()	017.9	AA 04000	
	DKK	ZOBSO	020		CF		FB		046.9()	002.0	AA 04000	
	HIDUB	HIDUB	010		IF		FB					
	HIDUB	GB	020		TF		FB				AA 02600	
	HIDUB	GB	030	IAF	PI	R	FB		189.9()	010.0	AA 02600	
		ZOBSO	010	FACF	IF		FB				AA 04000	
		PLAZZ	020	FAF	CF		FB		055.0()	010.8	AA 02400	
		RW05	030	MAP	CF		FO		055.0()	004.9	AT 00726	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		054.9()		AA 01200	
		050		VI	L	FB		245.0()			
	WELLA	060		CF		FO		267.0()	010.0	AA 03000	
	WELLA	070		HM	R	FO		087.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	WELLA	N425115.84	W0790935.69	N4251.264	W07909.595
	BUF	N425544.39	W0783846.83	N4255.740	W07838.781
	DKK	N422926.04	W0791626.75	N4229.434	W07916.446
	HIDUB	N425337.52	W0785327.98	N4253.625	W07853.466
	PLAZZ	N425226.22	W0784859.98	N4252.437	W07849.000
	ZOBSO	N424438.76	W0785909.47	N4244.646	W07859.158
	RW05	N425556.12	W0784425.08	N4255.935	W07844.418
	IGBI (LOC)	N425658.44	W0784303.33	N4256.974	W07843.056
	GB	N425226.00	W0784859.23	N4252.433	W07848.987

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00681	46

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AMDT: 14
				DATED: 11/23/2006

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:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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	HIDUB INT/DKK	PLAZZ LOM	1. TOWER (36-000157)	425713.00N/0785236.00W	1349 (2C)	1000	PT251	2600
	29.53 DME		2. TERRAIN	425642.00N/0784745.00W	703 (700)		AS1500	2200
INITIAL	DKK VORTAC	ZOBSO INT/DKK	3. AAO	422700.00N/0791230.00W	1450 (4E)	1000	AT1550	4000
		19.85 DME	4. TERRAIN	422700.00N/0791230.00W	1250 (1300)		AS1500	2800
INTERMEDIATE: LOC	ZOBSO INT/DKK	PLAZZ LOM	5. WNDMLL (36-020196)	424900.30N/0785202.84W	1066 (4D)	500	DG834	2400
	19.85 DME		6. TERRAIN	424303.00N/0785427.00W	794 (800)		AS1500	2300
INTERMEDIATE: PT	10 NM	PLAZZ LOM	5. WNDMLL (36-020196)	424900.30N/0785202.84W	1066 (4D)	500	DG834	2400
			7. TERRAIN	424315.00N/0785536.00W	712 (700)		AS1500	2200
FINAL: ILS	GS INTCP	RW05				ASC		881/200
FINAL: LOC	PLAZZ LOM	4.86 MILES AFTER	8. AAO	425339.00N/0784754.00W	844 (2C)	250		1100
		PLAZZ LOM						
2. PROCEDURE TURN	PLAZZ LOM	10 NM	9. AAO	423918.00N/0784730.00W	1559 (4E)	1000		2600
			10. TERRAIN	423918.00N/0784730.00W	1359 (1400)		AS1000	2400
3. MISSED APPROACH — MAP:	DA / 4.86 MILES	WELLA INT/BUF				ASC		3000
	AFTER PLAZZ LOM	23.09 DME	11. TOWER (36-000386)	430134.90N/0785539.30W	1700 (4D)	1000		2700
ELEV:	716/850		12. TERRAIN	425842.00N/0784127.00W	709 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	473	14. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300			1200
CATEGORY B	1.5 NM	450	473	14. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300			1200
CATEGORY C	1.7 NM	450	473	14. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300			1200
CATEGORY D	2.3 NM	550	553	15. TOWER (36-002774)	425409.41N/0784340.73W	909 (1A)	300		HAA	1280
CATEGORY E	4.5 NM	550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: GB LOM

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
090-180	TWR (36-000139)	159/ 16.7	2806 (2C)	3900	270-090	TWR (36-000386)	343/ 10.4	1700 (4D)	2700
180-270	AAO	177/ 28.4	2215 (4E)	3300					

CITY AND STATE	ELEVATION: 727 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BUFFALO, NY	BUFFALO NIAGARA INTL	I-GBI	ILS OR LOC RWY 5, AMDT 15	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
BUF APP CON		N W S	OTHER: ASOS	SOURCE: KBUF
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KBUF			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID: I-GBI	
	MONITOR POINT: BUF ATCT	
	HRS OPTN: CAT 1	24
	CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 23
		(S) SALS
	X	MALSR 05, 32
	X	HIRL 05, 23, 14, 32
		MIRL
	X	REIL 14, 32
	X	TDZ 05, 23
	X	C/L 05, 23
	X	OTHER (SPECIFY) PAPI-4L 14, 32
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 05, 23, 32
	INSTRUMENT	NPI-G 14
7. RUNWAY VISUAL RANGE	APPROACH	05, 23
	MIDFIELD	23
	ROLL OUT	05, 23

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 680.6
	DISTANCE FROM RWY: 728	ELEV GP ANTENNA: 688
		THRESHOLD CROSSING HEIGHT: 45.6

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (BRIAN BERUBEE)	DATE: 02/16/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

THRESHOLD DISPLACED 535 FT.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

100' VEGETATION APPLIED UNLESS OTHERWISE NOTED

KBUF ASOS ON SVC A
REDUNDANT WEATHER SOURCES ON APT

VGSI DATA: NONE

ZOB USES ZOBSO AS HANDOFF/HOLDING FIX FOR BUF APP CON AND REQUESTS AN INTERMEDIATE IN EXCESS OF 10NM

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
1. TOWER (36-000157) 425713.00N/0785236.00W 1349 (2C) 1000 2400
13. TERRAIN 425627.00N/0784503.00W 709 (700) AS1500 2200

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DUNKIRK VORTAC **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 422926.01N/0791626.75W **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	DIST FROM FAC FEET	MRA	MAA
1	DUNKIRK	DKK	VORTAC	H							45000

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	NE	DKK	VORTAC	053.00	233.00	R	1		2700	8000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	422603.00N/0791506.00W	1587	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOONN			KARB	ANN ARBOR	MI (US)
DP	MOONN			KDET	DETROIT	MI (US)
DP	MOONN			KDTW	DETROIT	MI (US)
DP	MOONN			KYIP	DETROIT	MI (US)
DP	MOONN			KPTK	PONTIAC	MI (US)
DP	BUFFALO			KBUF	BUFFALO	NY (US)
DP	XEROX			KROC	ROCHESTER	NY (US)
EN ROUTE	J36					(US)
EN ROUTE	J68					(US)
EN ROUTE	V14					(US)
EN ROUTE	V265					(US)
EN ROUTE	V464					(US)
EN ROUTE	V522					(US)
EN ROUTE	V90					(US)
IAP	ILS OR LOC RWY 23			KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC RWY 5			KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC/DME RWY 32			KBUF	BUFFALO	NY (US)
IAP	GPS RWY 24			KDKK	DUNKIRK	NY (US)
IAP	VOR RWY 24		1	KDKK	DUNKIRK	NY (US)
IAP	VOR RWY 6		1	KDKK	DUNKIRK	NY (US)
IAP	ILS OR LOC RWY 25			KJHW	JAMESTOWN	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED HOLDING PATTERN OBST
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HIDUB **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425337.52N/0785327.98W **TYPE:** INT, 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	DIST FROM FAC FEET	MRA	MAA
1	BUFFALO	BUF	VOR/DME	H	267.00	259.00	11.00	11.00		3000	17500
2	DUNKIRK	DKK	VORTAC	H	041.89	034.89	29.53	29.53		3000	17500
3	PLAZZ	GB	LOM		300.95	289.95		3.50		3000	17500

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	NE	DKK	VORTAC	041.89	221.89	R	1		3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (36-000157)	425713.00N/0785236.00W	1349	1D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
BUFFALO (FAC 1) AND DUNKIRK (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2-43	1, 2				(US)
IAP	ILS OR LOC RWY 5	1, 2, 3	1	KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1/2/3
CHANGED FAC 3 BRG FROM 109.98 TO 109.90
UPDATED HOLDING PATTERN OBST ID
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PLAZZ LOM **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425226.22N/0784859.98W **TYPE:** WP

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	PLAZZ	GB	LOM								10000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE PLAZZ LOM.
ACTUAL FACILITY LOCATION IS 425226.00N/0784859.67W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5	1		KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED THE FIX ABEAM 4 FEET SOUTHWEST
REMOVED FAC 2
UPDATED FIX USE
ADDED WP TO FIX TYPE

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WELLA **STATE:** **COUNTRY:** CA

LATITUDE/LONGITUDE: 425115.84N/0790935.69W **TYPE:** WP, INT, 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	DIST FROM FAC FEET	MRA	MAA
1	BUFFALO	BUF	VOR/DME	H	267.00	259.00	23.09	23.09		3000	17500
2	DUNKIRK	DKK	VORTAC	H	020.00	013.00		22.40		3000	17500

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	W	BUF	VOR/DME	267.00	087.00	R	1		3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	STACK (CA-000995)	425247.00N/0791425.00W	1080	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
BUFFALO (FAC 1) AND DUNKIRK (FAC 2) USED TO ESTABLISH FIX COORDINATES
FIX IN CANADA CONTROLLED BY BUFFALO APPROACH CONTROL.
HOLDING PATTERN PENETRATES CYA 513 (PARACHUTE JUMP AREA), NO AIR/GROUND CONTROLLING AGENCY.
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2-43	1, 2				(CA)
IAP	ILS OR LOC RWY 23		1	KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC RWY 5		1	KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC/DME RWY 32		1	KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 14			KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE
ADDED DIST FROM FAC 1/2
DELETED PAT 1 DME LEG LENGTH
UPDATED HOLDING PATTERN CONTROLLING OBSTACLE ID
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER: NAV CANADA

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZOBSO **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 424438.76N/0785909.47W **TYPE:** INT, 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	DIST FROM FAC FEET	MRA	MAA
1	BUFFALO	I-GBI	LOC		234.94	223.94		17.09		4000	12000
2	DUNKIRK	DKK	VORTAC	H	046.91	039.91	19.85	19.85		4000	17500
3	JAMESTOWN	JHW	VOR/DME	H	017.18	010.18		33.86		4000	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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	DKK	VORTAC	046.91	046.91	L	1		4000	15000	5	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	200' AAO	423946.21N/0785801.93W	939	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
JAMESTOWN (FAC 3) AND BUFFALO (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE
FIX USED BY CLEVELAND CENTER (ZOB) FOR HOLDING AND HANDOFF TO BUFFALO APPROACH CONTROL DURING NON-RADAR OPERATIONS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5	1, 2, 3		KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1/2/3
ADDED ESV DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BUFFALO** STATE: **NY**

AIRPORT NAME: **BUFFALO NIAGARA INTL** ID: **KBUF**

PROCEDURE: **ILS OR LOC RWY 5** AMDT: **AMDT 15**

DOCKET # :
(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 **THLD** to 1000' point **3.08**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **.90**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **43.94**
4. High Terrain in **FINAL** segment containing 1000' point **683**
5. Distance from * to 1500' point _____
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of _____ segment at 1500' point _____
7. True Course of _____ segment containing 1500' point _____
8. High Terrain in _____ segment containing 1500' point _____
9. Threshold Coordinates (if straight-in) ... **425556.11N** / **0784425.06W**
10. ARP Coordinates ..... **425625.50N** / **0784350.10W**
11. Runway Approach End and distance furthest from ARP.....RWY **05**
    Distance **.74** NM
12. FAF Coordinates ..... **425226.00N** / **0784859.67W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
*** 1500 POINT LOCATED IN PT MANUEVERING AREA**

Federal Aviation Administration

Memorandum

Date:

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

From: Darryel Adams, Manager, Terminal Procedures & Charting Services, Eastern Team, AJV-352

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.

TAKE-OFF MINIMUMS AMDT 6
ILS OR LOC RWY 23, AMDT 30
ILS OR LOC RWY 5, AMDT 15
ILS OR LOC/DME RWY 32, AMDT 1
RNAV (GPS) RWY 14, AMDT 1
RNAV (GPS) RWY 32, AMDT 2
RNAV (GPS) RWY 23, AMDT 2
RNAV (GPS) RWY 5, AMDT 1
SID BUFFALO FOUR

Estimated Chart Date: 07/26/2012

Runway Numbers are not affected.

Please publish these changes in the National Flight Data Digest.

New York

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Buffalo	Buffalo Niagara Intl	Airport	KBUF / BUF	Old 9 ° West New 11 ° West	2015
Buffalo		ILS	GBI	Old 9 ° West New 11 ° West	2015
Buffalo		ILS	BUF	Old 9 ° West New 11 ° West	2015