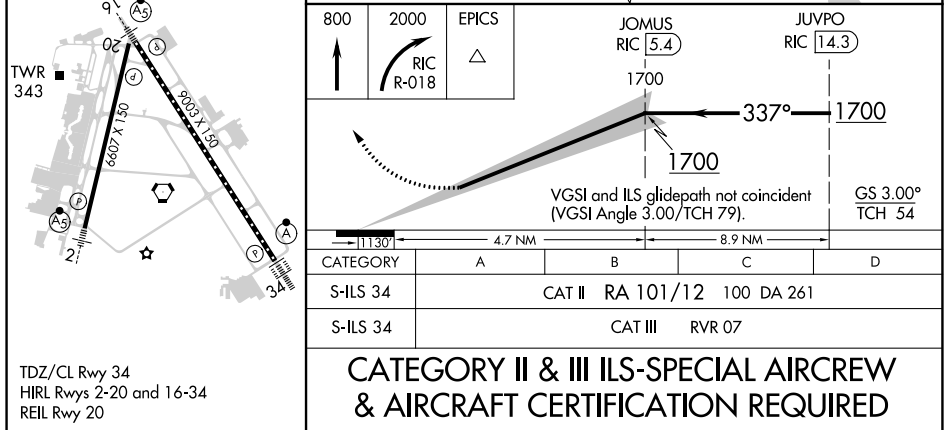
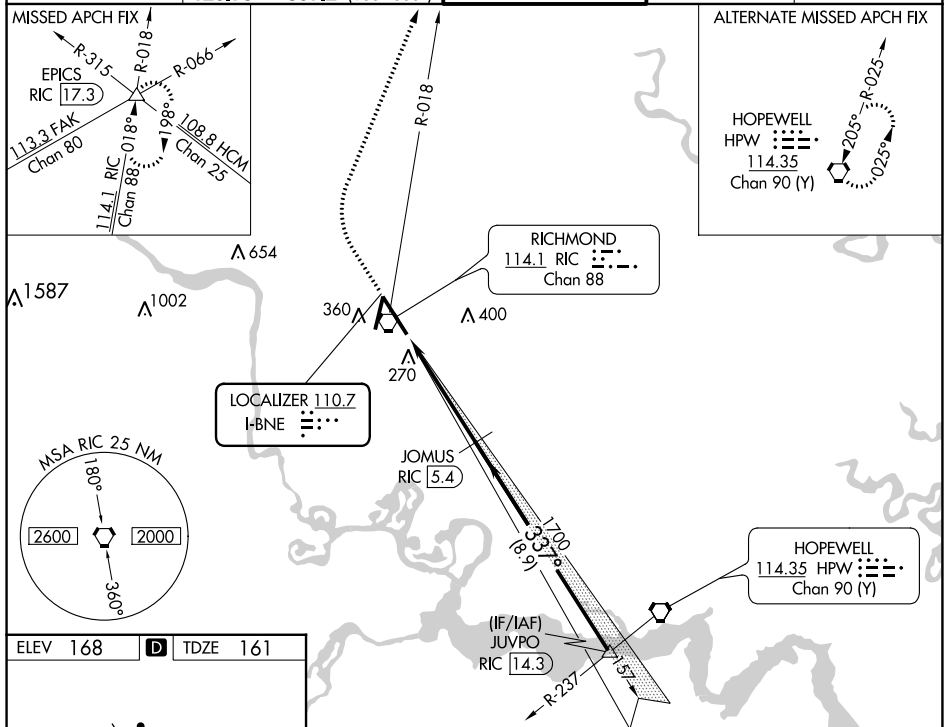


LOC I-BNE <u>110.7</u>	APP CRS 337°	Rwy Idg TDZE Apt Elev	9003 161 168
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ILS RWY 34 (CAT II & III)
RICHMOND INTL (RIC)

▼ DME from RIC VORTAC. DME use requires simultaneous reception of I-BNE and RIC DME. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.				ALSF-2 		MISSED APPROACH: Climb to 800 then climbing right turn to 2000 on RIC VORTAC R-018 to EPICS INT/ RIC 17.3 DME and hold.			
ATIS 119.15 263.025		POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)		RICHMOND TOWER 121.1 257.8		GND CON 121.9 348.6		CLNC DEL 127.55 348.6	



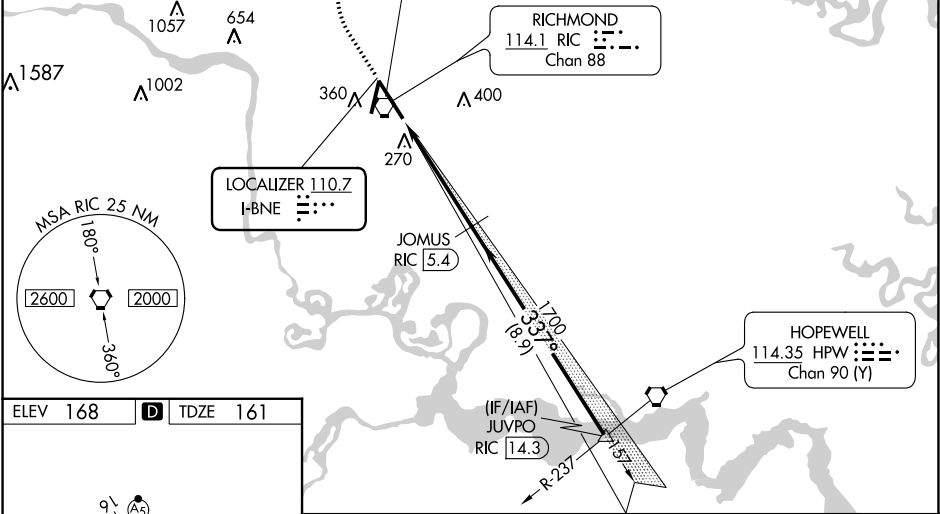
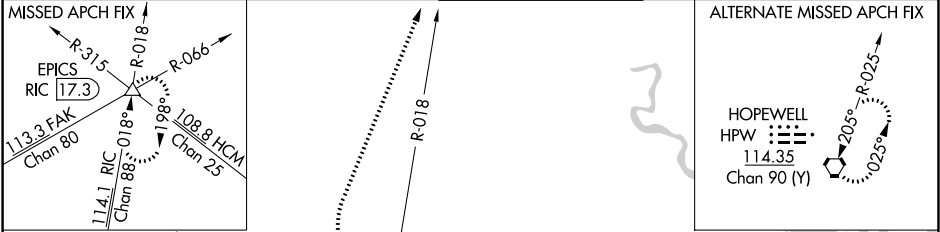
LOC I-BNE 110.7	APP CRS 337°	Rwy Idg 9003 TDZE 161 Apt Elev 168	ILS RWY 34 (SA CAT I) RICHMOND INTL (RIC)	
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Requires specific OPSPEC, MSPEC, or LOA approval. DME from RIC VORTAC. DME use requires simultaneous reception of I-BNE and RIC DME.

ALSF-2

MISSED APPROACH: Climb to 800 then climbing right turn to 2000 on RIC VORTAC R-018 to EPICS INT/RIC 17.3 DME and hold.

ATIS 119.15 263.025	POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	RICHMOND TOWER 121.1 257.8	GND CON 121.9 348.6	CLNC DEL 127.55 348.6
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LOC I-RGJ	APP CRS	Rwy Idg	9003
110.7	157°	TDZE	167
		Apt Elev	168

ILS or LOC RWY 16

RICHMOND INTL (RIC)

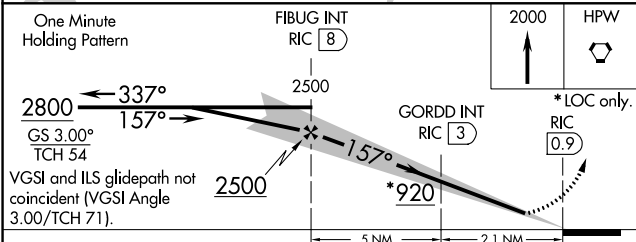
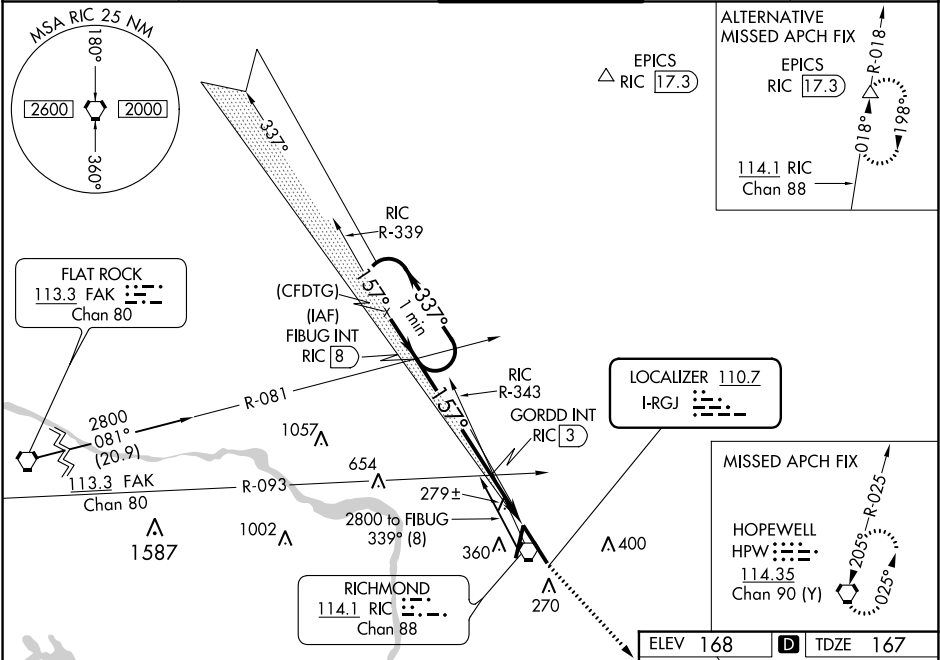
⚠ For inop ALS, increase S-LOC 16 Cats C and D visibility to 2 SM. GORDD Fix Minimums: for inop ALS, increase S-LOC 16 Cats C and D visibility to 1½ SM. **RVR 1800 authorized with use of FD or AP or HUD to DA. % DME from RIC VORTAC.

MALSR

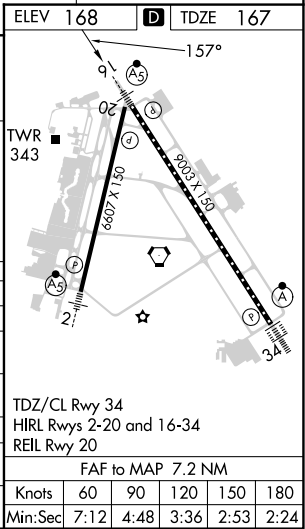
AS

MISSED APPROACH:
Climb to 2000 direct
HPW VORTAC and hold.

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



CATEGORY	A	B	C	D
S-ILS 16 **		367/24	200 (200-½)	
S-LOC 16	920/24 753 (800-½)	920/40 753 (800-¾)	920-1¾	753 (800-1¾)
CIRCLING	920-1 752 (800-1)	920-1¼ 752 (800-1¼)	920-2½	752 (800-2½)
GORDD FIX MINIMUMS %				
S-LOC 16	580/24	413 (500-½)	580/40	413 (500-¾)
CIRCLING	660-1	492 (500-1)	700-1½ 532 (600-1½)	720-2 552 (600-2)



RICHMOND INTL (RIC)

ILS or LOC RWY 16

LOC I-EZD	APP CRS	Rwy Idg	6607
110.9	023°	TDZE	161
		Apt Elev	168

ILS or LOC RWY 2

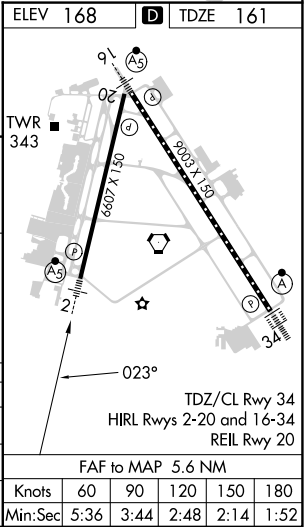
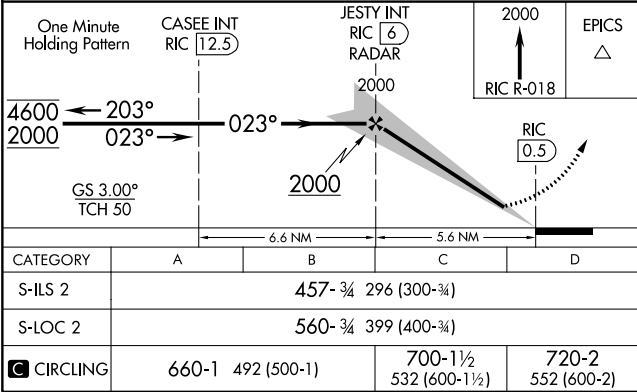
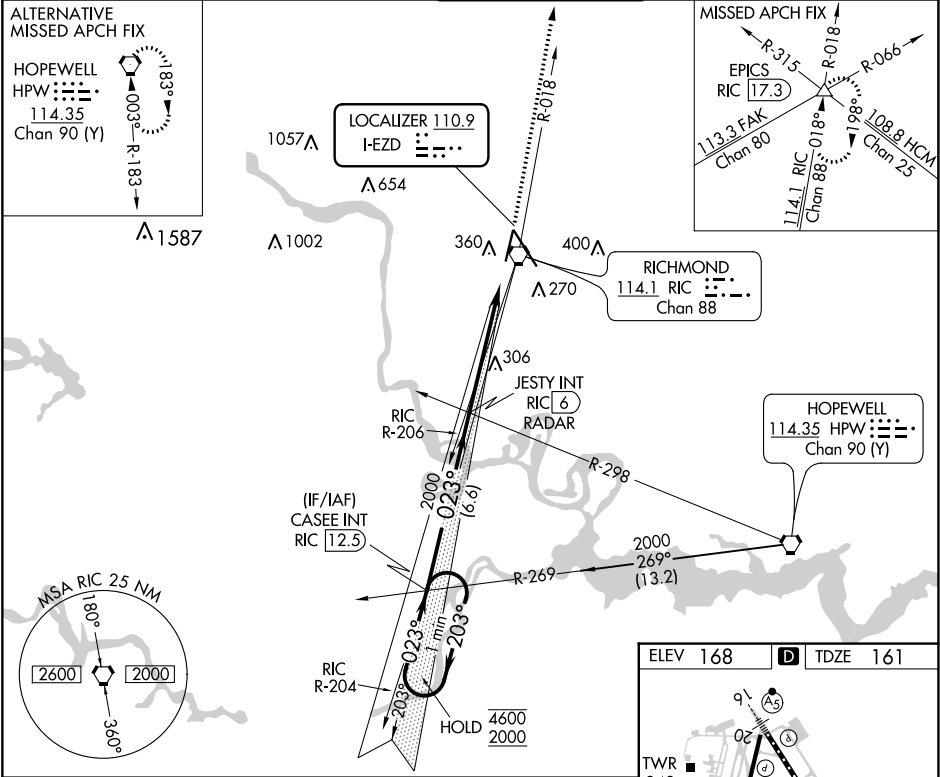
RICHMOND INTL (RIC)

Rwy 2 helicopter visibility reduction below ¾ SM NA.
For inop ALS, increase S-ILS 2 all Cats visibility to ⅝ SM and S-LOC 2 Cats A and B visibility to 1 SM.

MALSRR

MISSED APPROACH: Climb to 2000 on RIC VORTAC R-018 to EPICS INT/RIC 17.3 DME and hold.

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



LOC I-BNE <u>110.7</u>	APP CRS 337°	Rwy Idg TDZE Apt Elev	9003 161 168
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ILS or LOC RWY 34
RICHMOND INTL (RIC)

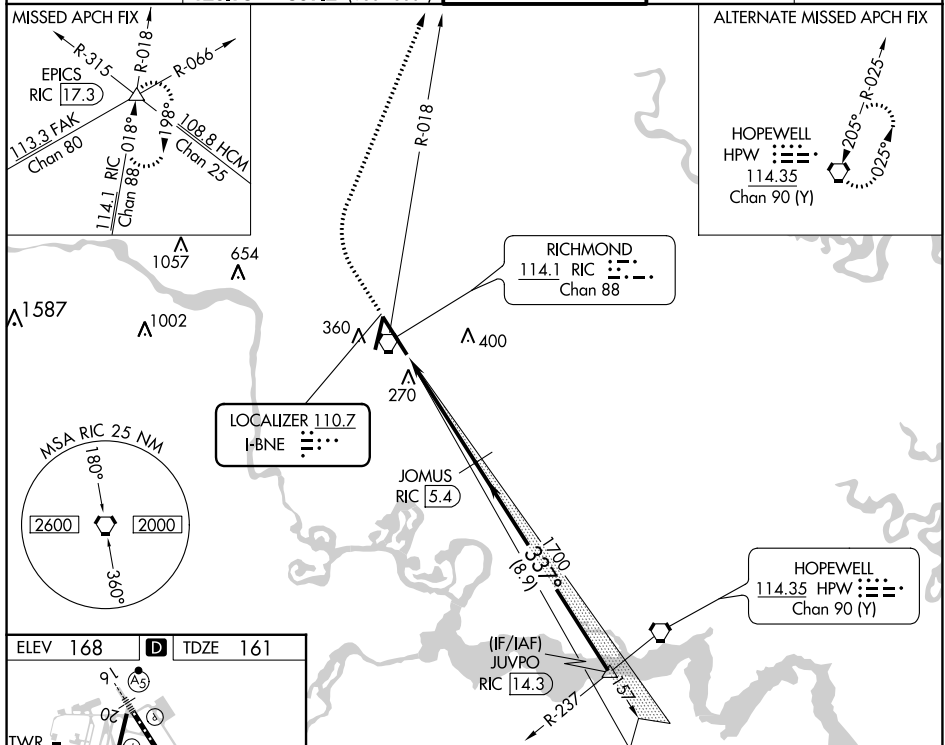
	DME required for LOC only.
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ALSF-2



MISSED APPROACH: Climb to 800 then climbing right turn to 2000 on RIC VORTAC R-018 to EPICS INT/RIC 17.3 DME and hold.

ATIS		POTOMAC APP CON		RICHMOND TOWER		GND CON		CLNC DEL	
119.15	263.025	126.4	282.375 (001°-185°)	121.1	257.8	121.9	348.6	127.55	348.6
		126.75	307.2 (186°-360°)						



ELEV 168 **D** TDZE 161

TWR 343

6000 X 150

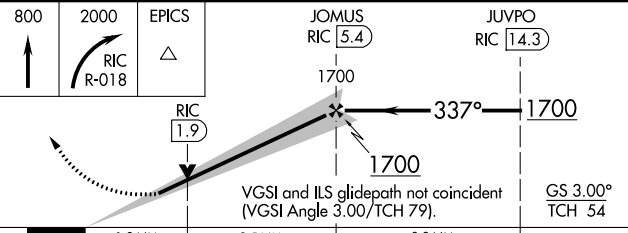
9000 X 50

337°

A5, A, Y

TDZ/CL Rwy 34
HIRL Rws 2-20 and 16-34
REIL Rwy 20

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

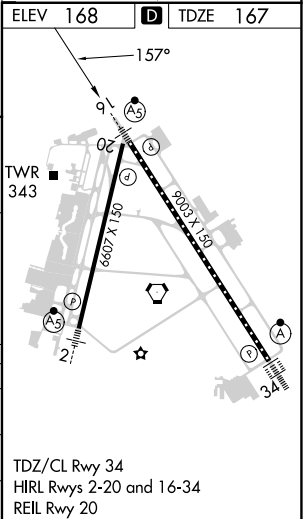
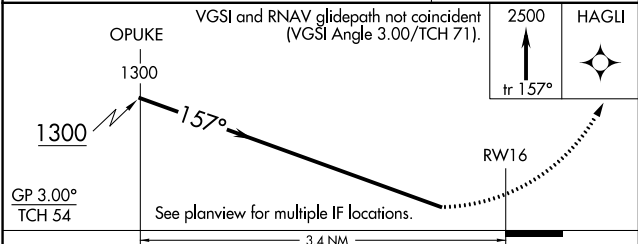
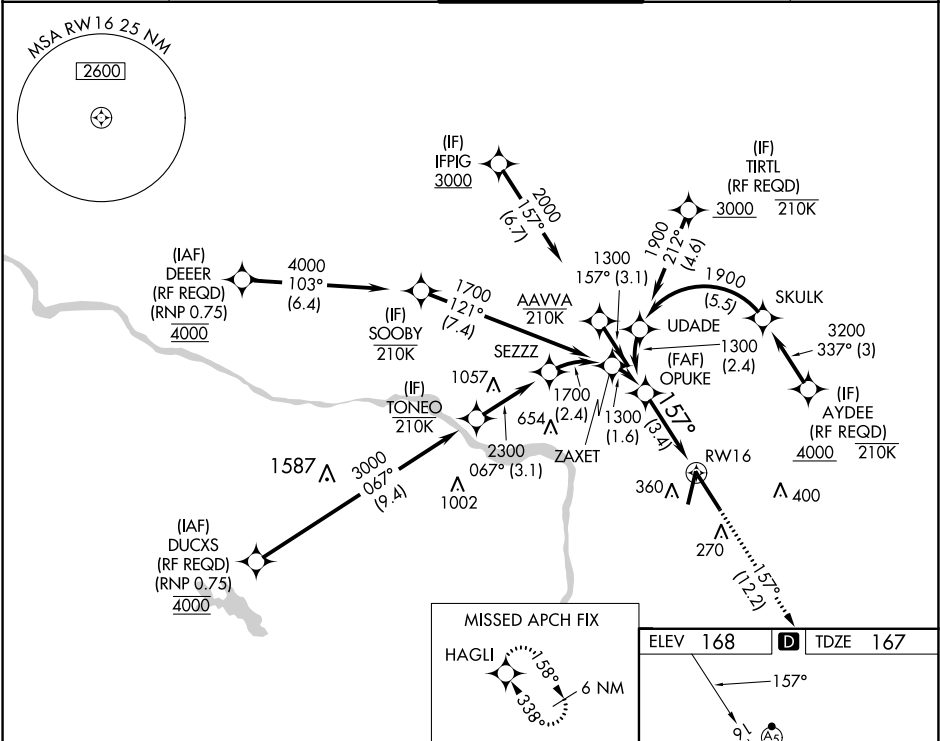
800 ↑	2000  RIC R-018	EPICS 	 VGS I and ILS glidepath not coincident (VGS Angle 3.00/TCH 79) GS 3.00° TCH 54				
CATEGORY	A	B	C	D	E		
S-ILS 34	361/18 200 (200-½)						
S-LOC 34	620/24	459 (500-½)	620/45	459 (500-¾)			
 CIRCLING	660-1	492 (500-1)	700-1½ 532 (600-1½)	720-2 552 (600-2)	740-2 572 (600-2)		

APP CRS	Rwy Idg	9003
157°	TDZE	167
	Apt Elev	168

RNAV (RNP) Y RWY 16

RICHMOND INTL (RIC)

RNP AR APCH.		MALS R	MISSED APPROACH: Climb to 2500 on track 157° to HAGLI and hold.	
▼ For uncompensated Baro-VNAV systems, procedure NA below -11°C (13°F) or above 54°C (130°F). For inop ALS, increase RNP 0.11 all Cats visibility to RVR 5500 and RNP 0.30 all Cats visibility to 1½ SM.				
ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



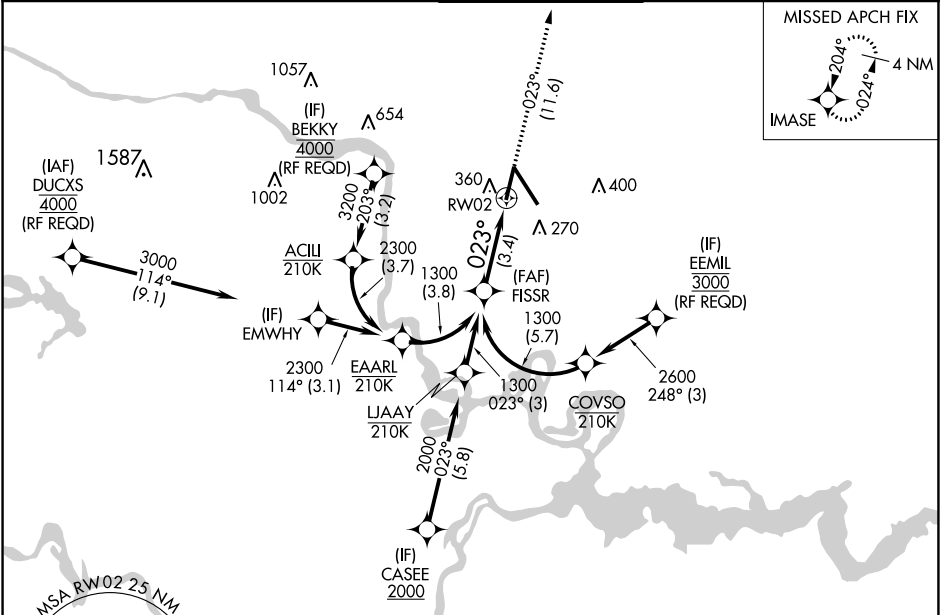
CATEGORY	A	B	C	D
RNP 0.11 DA	506/40 339 (400-¾)			
RNP 0.30 DA	606/50 439 (500-1)			
AUTHORIZATION REQUIRED				

APP CRS	Rwy Idg	6607
023°	TDZE	161
	Apt Elev	168

RNAV (RNP) Y RWY 2

RICHMOND INTL (RIC)

RNP AR APCH.				MALSR 	MISSED APPROACH: Climb to 2100 on track 023° to IMASE and hold.
▼ For uncompensated Baro-VNAV systems, procedure NA below -11°C (13°F) or above 54°C (130°F). Rwy 2 helicopter visibility reduction below ¾ SM NA. For inop ALS, increase RNP 0.11 all Cats visibility to 1 SM and RNP 0.3 all Cats visibility to 1½ SM.					
ATIS		POTOMAC APP CON		RICHMOND TOWER	
119.15 263.025		126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)		121.1 257.8	
				GND CON	
				121.9 348.6	
				CLNC DEL	
				127.55 348.6	



ELEV 168

TDZE 161

See planview for multiple IF locations.

2100 IMASE

↑ tr 023°

FISSR 1300

1300

GP 3.00° TCH 50

023°

RW02

3.4 NM

CATEGORY	A	B	C	D
RNP 0.11 DA		506-¾	345 (400-¾)	
RNP 0.30 DA		595-1	434 (500-1)	

AUTHORIZATION REQUIRED

TWR 343

TDZ/CL Rwy 34
HIRL Rwys 2-20 and 16-34
REIL Rwy 20

NE-3, 22 FEB 2024 to 21 MAR 2024

NE-3, 22 FEB 2024 to 21 MAR 2024

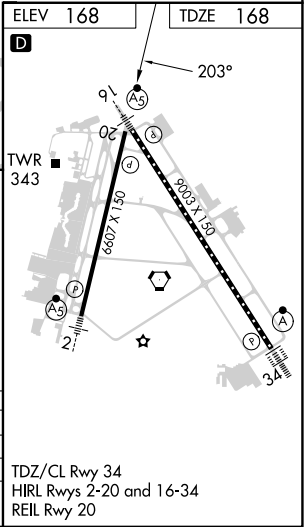
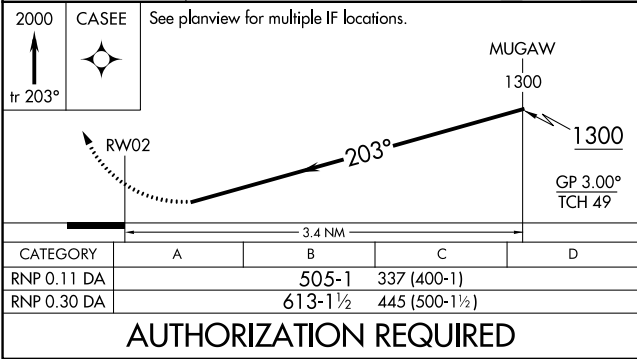
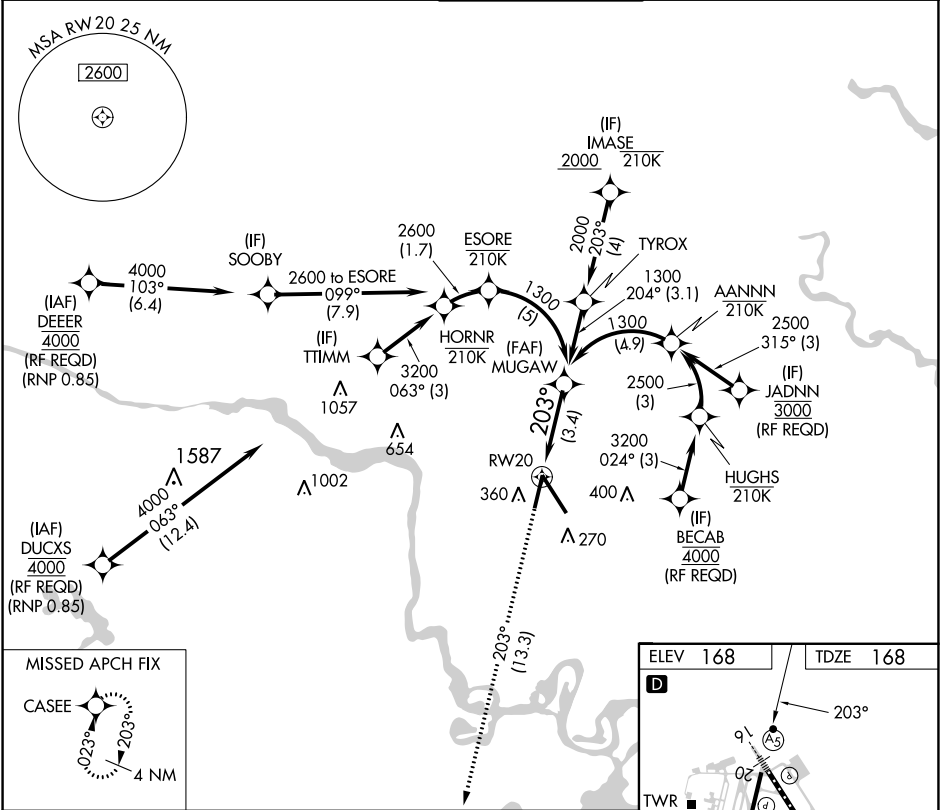
APP CRS	Rwy Idg	6607
203°	TDZE	168
	Apt Elev	168

RNAV (RNP) Y RWY 20

RICHMOND INTL (RIC)

RNP AR APCH.	MISSED APPROACH: Climb to 2000 on track 203° CASEE and hold.
▼ For uncompensated Baro-VNAV systems, procedure NA below -11°C or above 54°C.	

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



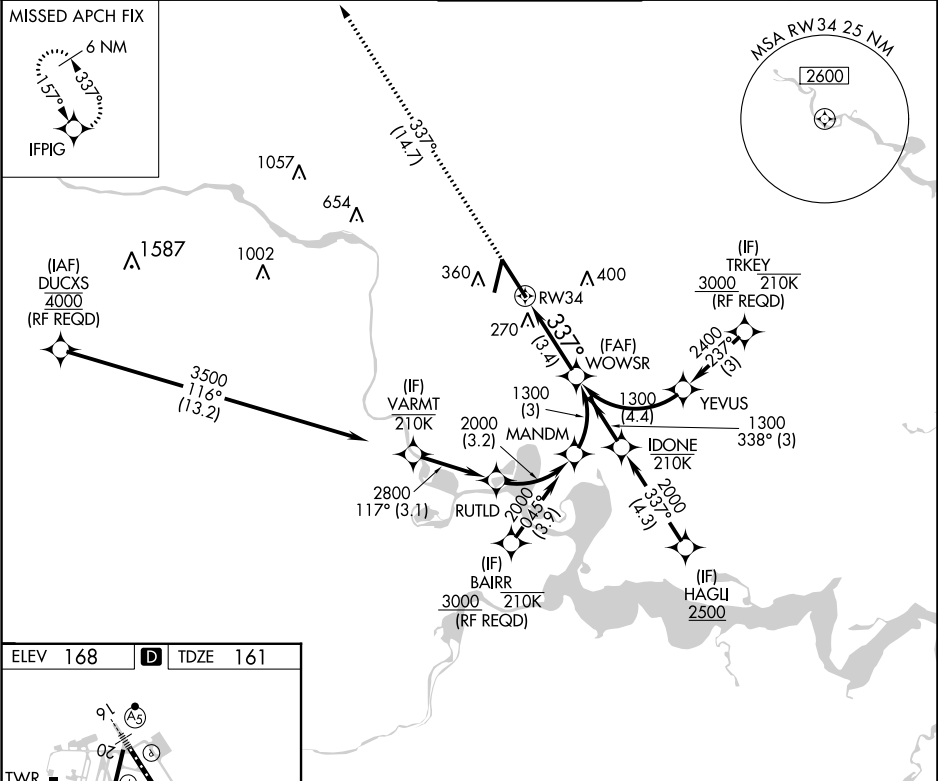
APP CRS	Rwy Idg	9003
337°	TDZE	161
	Apt Elev	168

RNAV (RNP) Y RWY 34

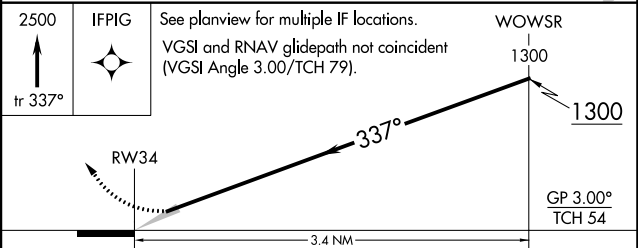
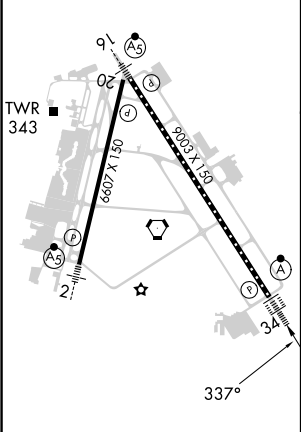
RICHMOND INTL (RIC)

RNP AR APCH.	ALSIF-2	MISSED APPROACH: Climb to 2500 on track 337° to IFPIG and hold.
For uncompensated Baro-VNAV systems, procedure NA below -11°C or above 54°C. For inop ALS, increase RNP 0.30 all Cats visibility to 1¼ SM.		

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



ELEV 168	D	TDZE 161
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CATEGORY	A	B	C	D
RNP 0.11 DA		482/26	321 (400-½)	
RNP 0.30 DA		596/49	435 (500-1)	

AUTHORIZATION REQUIRED

WAAS
CH **72720**
W16A

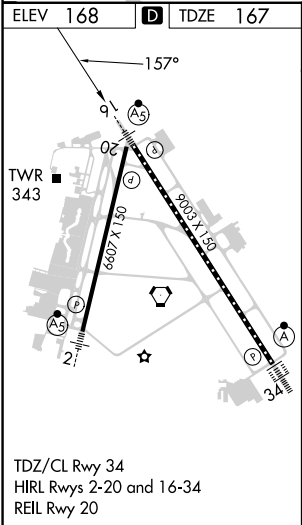
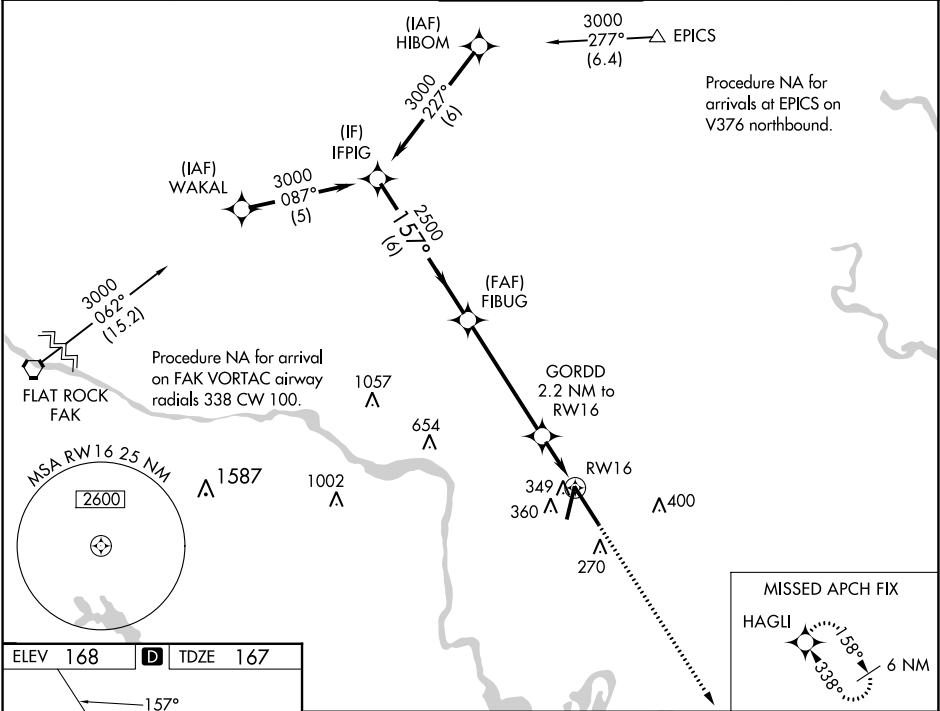
APP CRS
157°

Rwy Idg **9003**
TDZE **167**
Apt Elev **168**

RNAV (GPS) Z RWY 16

RICHMOND INTL (RIC)

RNP APCH		MALSR		MISSED APPROACH: Climb to 2500 direct HAGLI and hold.	
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F). For inop ALS increase LNAV/VNAV all Cats visibility to RVR 5400. ** RVR 1800 authorized with use of FD or AP or HUD to DA.					
ATIS 119.15 263.025	POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	RICHMOND TOWER 121.1 257.8	GND CON 121.9 348.6	CLNC DEL 127.55 348.6	



VGSi and RNAV glidepath not coincident (VGSi Angle 3.00/TCH 71).				2500	HAGLI
GP 3.00° TCH 54				*LNAV only.	
IFPIG 3000 157° 2500 920* 1.2 NM to RW16					
6 NM 5 NM 1 NM 1.2 NM					
CATEGORY	A	B	C	D	
LPV DA **	367/24 200 (200-½)				
LNAV/VNAV DA	504/31 337 (400-¾)				
LNAV MDA	600/24 433 (500-½)		600/40 433 (500-¾)		
CIRCLING	660-1 492 (500-1)		700-1½ 532 (600-1½)		720-2 552 (600-2)

WAAS CH 72716 W02A	APP CRS 023°	Rwy Idg TDZE 161 Apt Elev 168
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RNAV (GPS) Z RWY 2

RICHMOND INTL (RIC)

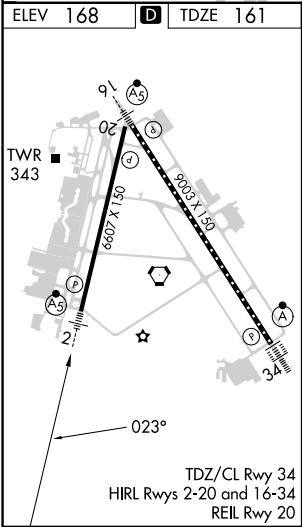
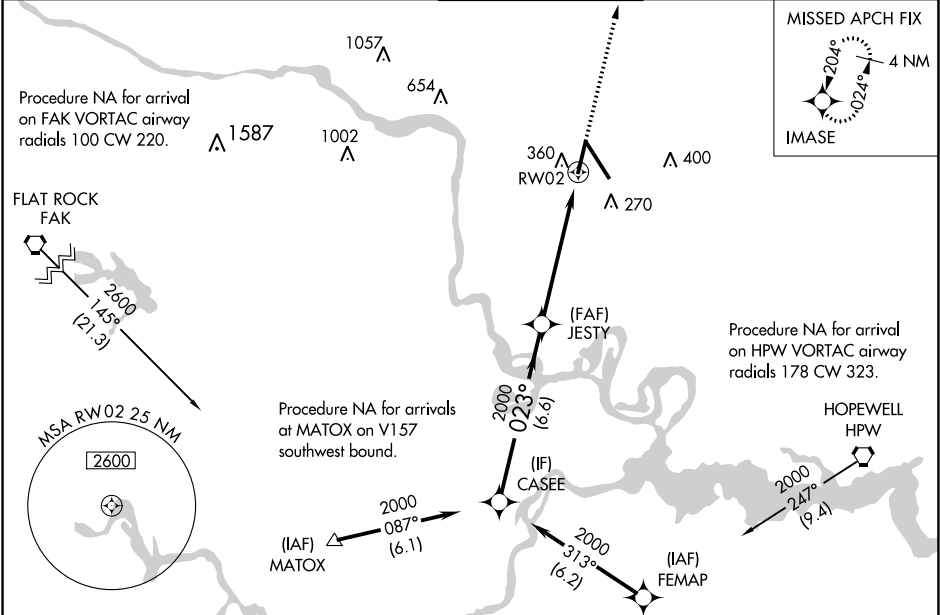
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F).
Rwy 2 helicopter visibility reduction below ¾ SM NA.

MALSR

MISSED APPROACH: Climb to 2000 direct IMASE and hold.

ATIS 119.15 263.025	POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	RICHMOND TOWER 121.1 257.8	GND CON 121.9 348.6	CLNC DEL 127.55 348.6
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	CASEE	JESTY		2000	IMASE
	2000	2000	2000	2000	
	GP 3.00° TCH 50				
	6.6 NM	4.3 NM	1.3 NM		
CATEGORY	A	B	C	D	
LPV DA		457-¾	296 (300-¾)		
LNAV/VNAV DA		568-⅞	407 (400-⅞)		
LNAV MDA	620-¾	459 (500-¾)	620-1	459 (500-1)	
CIRCLING	660-1	492 (500-1)	700-1½ 532 (600-1½)	720-2 552 (600-2)	

WAAS
CH **69320**
W20A

APP CRS
203°

Rwy Idg
TDZE **168**
Apt Elev **168**

RNAV (GPS) Z RWY 20

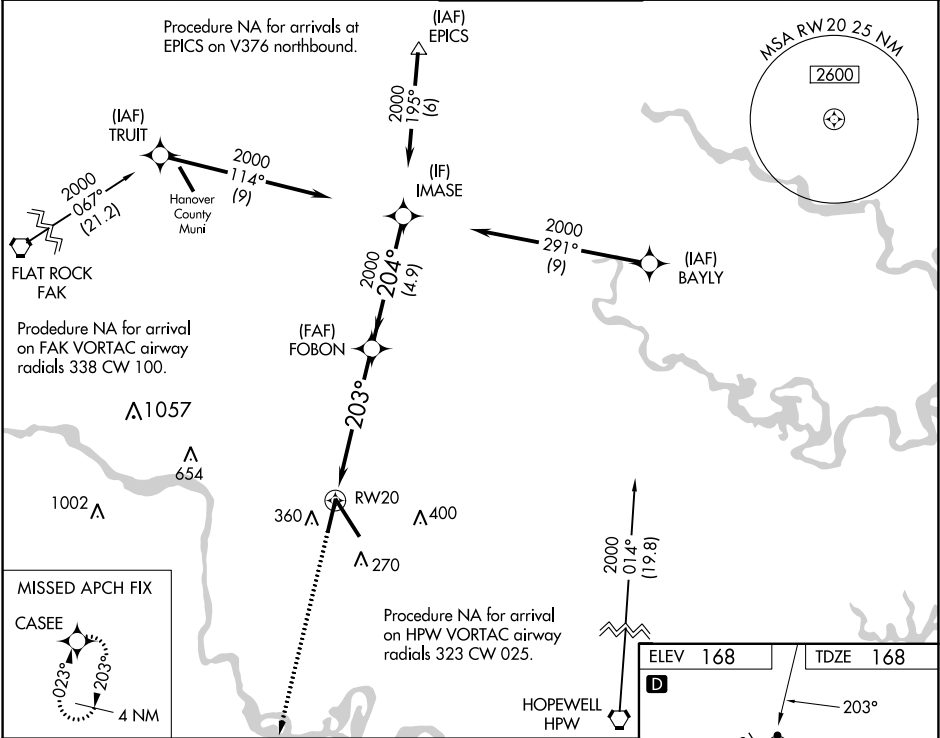
RICHMOND INTL (RIC)

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F). Rwy 20 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH:
Climb to 2000 direct CASEE and hold.

ATIS 119.15 263.025	POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	RICHMOND TOWER 121.1 257.8	GND CON 121.9 348.6	CLNC DEL 127.55 348.6
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2000

CASEE

*LNAV only.

↑

✱

RW20

FOBOB

IMASE

*1.5 NM to RW20

2000

204°

2000

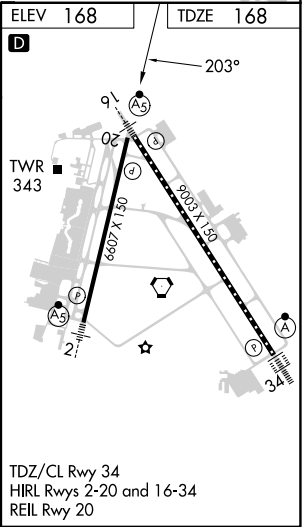
GP 3.00° TCH 49

1.5 NM

4.1 NM

4.9 NM

CATEGORY	A	B	C	D
LPV DA		464-7/8	296 (300-7/8)	
LNAV/VNAV DA		603-1 1/2	435 (500-1 1/2)	
LNAV MDA	680-1	512 (600-1)	680-1 3/8	512 (600-1 3/8)
CIRCLING	680-1	512 (600-1)	700-1 1/2 532 (600-1 1/2)	720-2 552 (600-2)



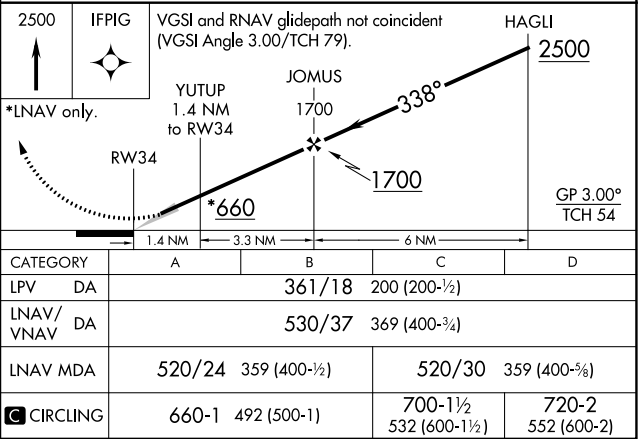
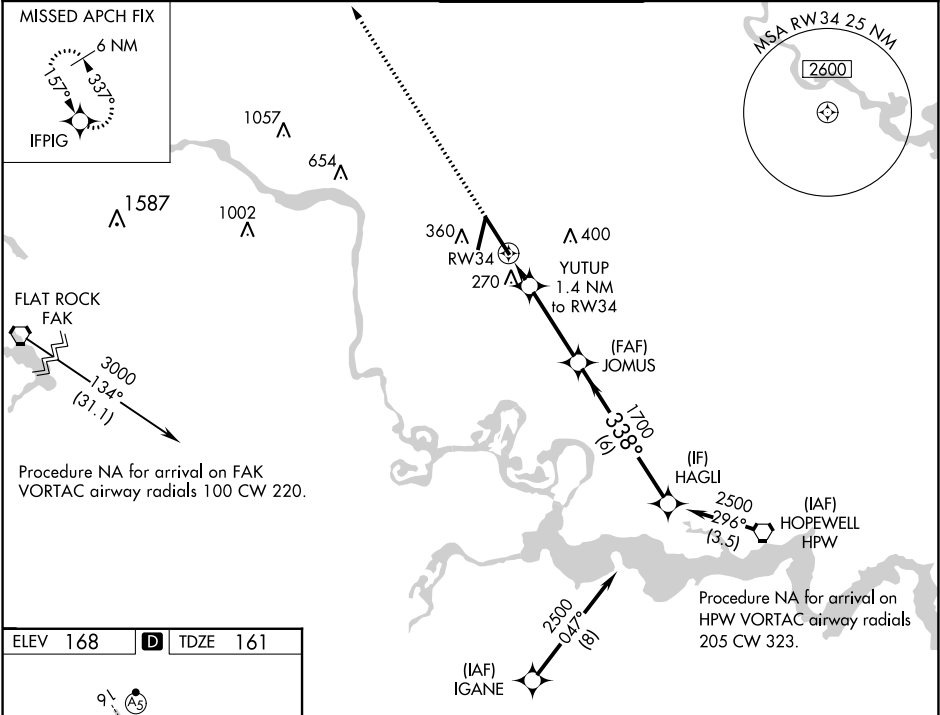
WAAS CH 97520 W34A	APP CRS 338°	Rwy Idg 9003 TDZE 161 Apt Elev 168
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RNAV (GPS) Z RWY 34

RICHMOND INTL (RIC)

RNP APCH. ▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1¼ SM and LNAV Cats C and D visibility to RVR 5500.	ALSF-2 A MISSED APPROACH: Climb to 2500 direct IFPIG and hold.
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ATIS 119.15 263.025	POTOMAC APP CON 126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	RICHMOND TOWER 121.1 257.8	GND CON 121.9 348.6	CLNC DEL 127.55 348.6
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NE-3, 22 FEB 2024 to 21 MAR 2024

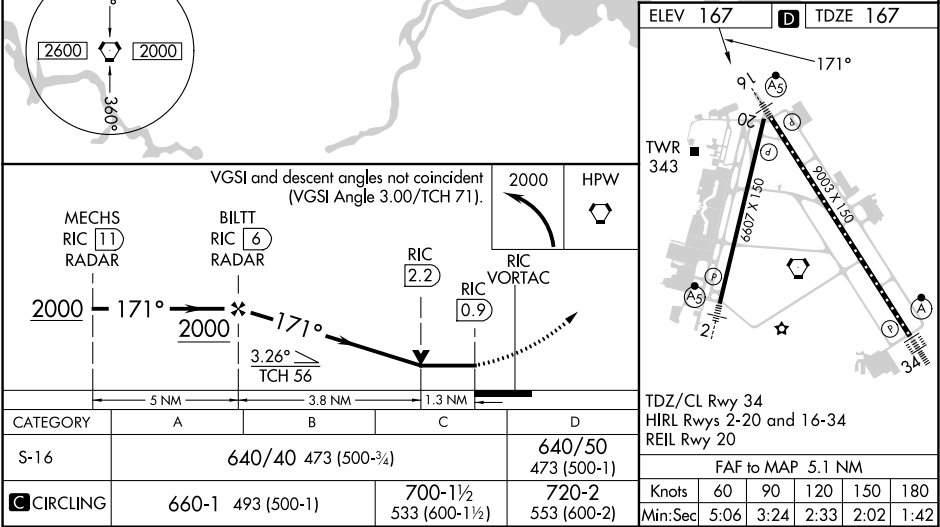
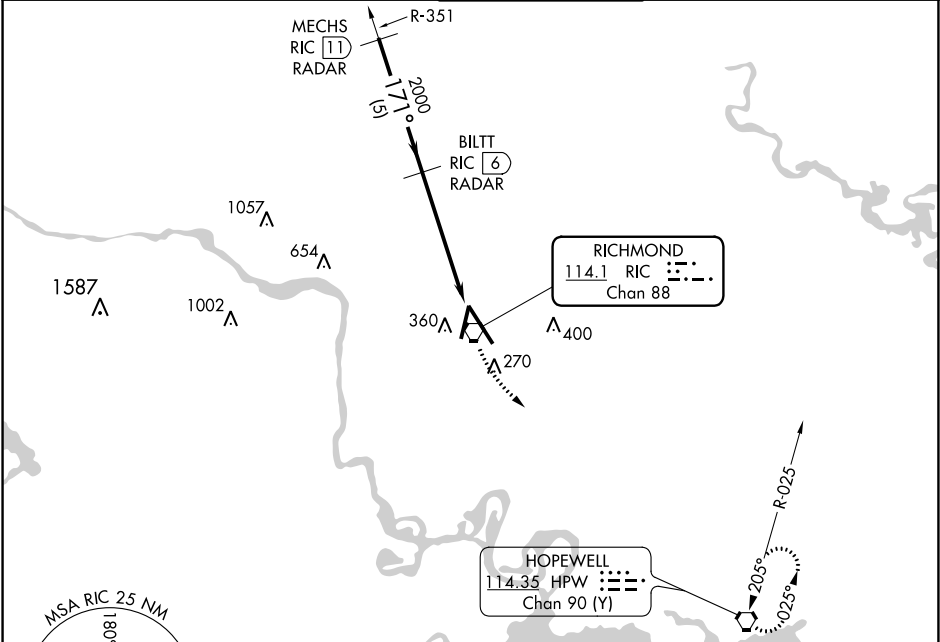
NE-3, 22 FEB 2024 to 21 MAR 2024

VORTAC RIC	APP CRS	Rwy Idg	9003
114.1	171°	TDZE	167
Chan 88		Apt Elev	167

VOR RWY 16
RICHMOND INTL (RIC)

DME or RADAR required. RADAR required for procedure entry.	MALSR	MISSED APPROACH: Climbing left turn to 2000 direct HPW VORTAC and hold.
Rwy 16 helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase S-16 Cat A/B visibility to RVR 5500, and Cat C/D to 1 3⁄8 SM.		

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°)	121.1 257.8	121.9 348.6	127.55 348.6
	126.75 307.2 (186°-360°)			



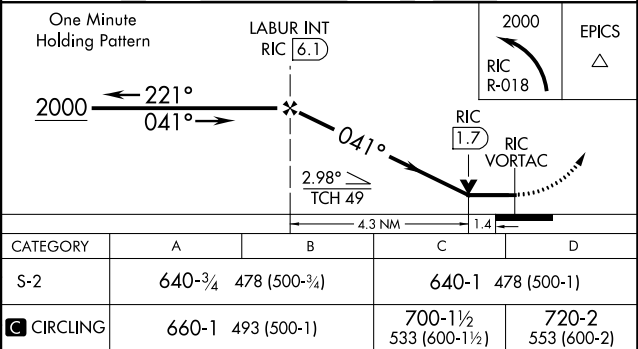
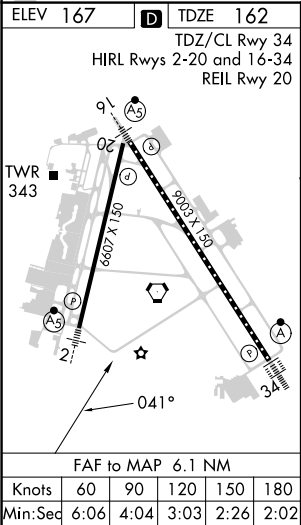
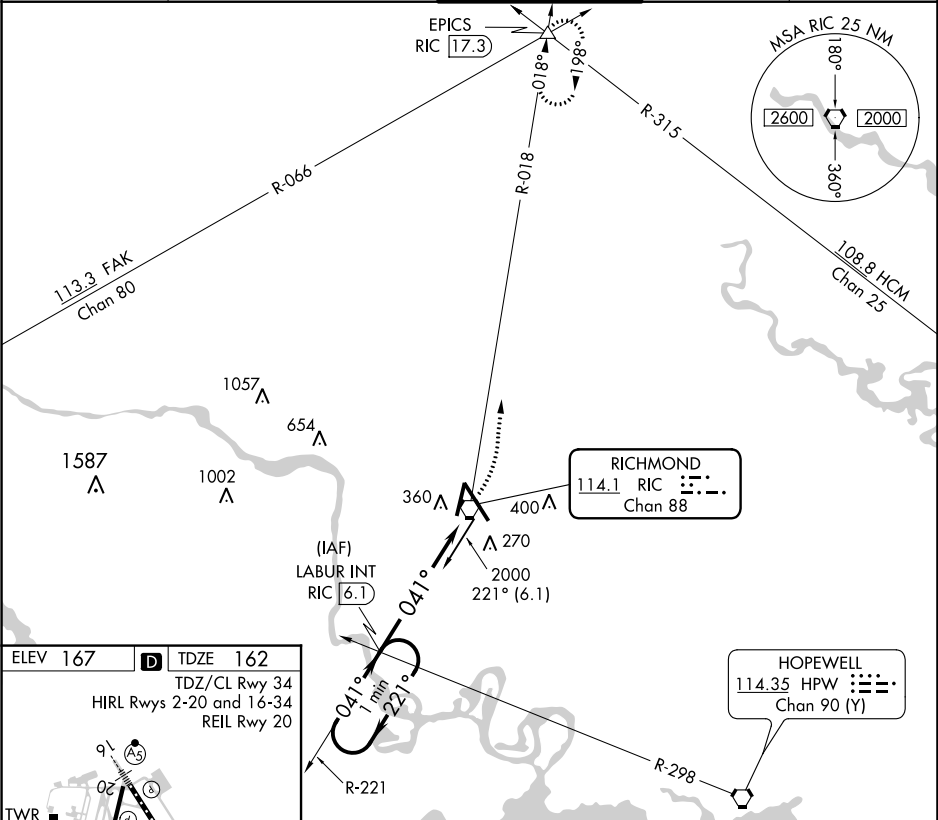
VORTAC RIC	Rwy Idg	6607
114.1	APP CRS	041°
Chan 88	TDZE	162
	Apt Elev	167

VOR RWY 2

RICHMOND INTL (RIC)

▼ Rwy 2 helicopter visibility reduction below ¾ SM NA. For inop ALS, increase S-2 Cat A/B visibility to 1 SM, and Cat C/D to 1½ SM.	MALSR	MISSED APPROACH: Climbing left turn to 2000 on RIC VORTAC R-018 to EPICS INT/RIC 17.3 DME and hold.
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ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°)	121.1 257.8	121.9 348.6	127.55 348.6
	126.75 307.2 (186°-360°)			



VORTAC RIC	APP CRS	Rwy Idg	6607
114.1	188°	TDZE	168
Chan 88		Apt Elev	168

VOR RWY 20

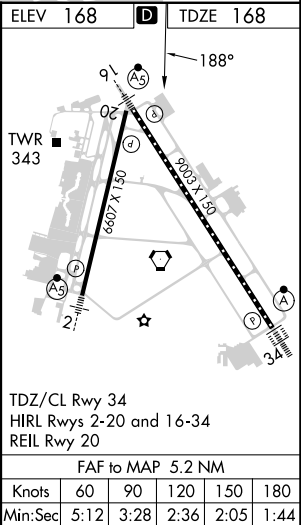
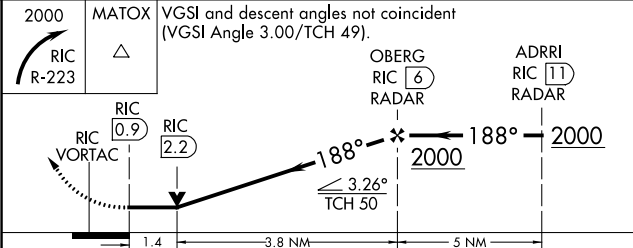
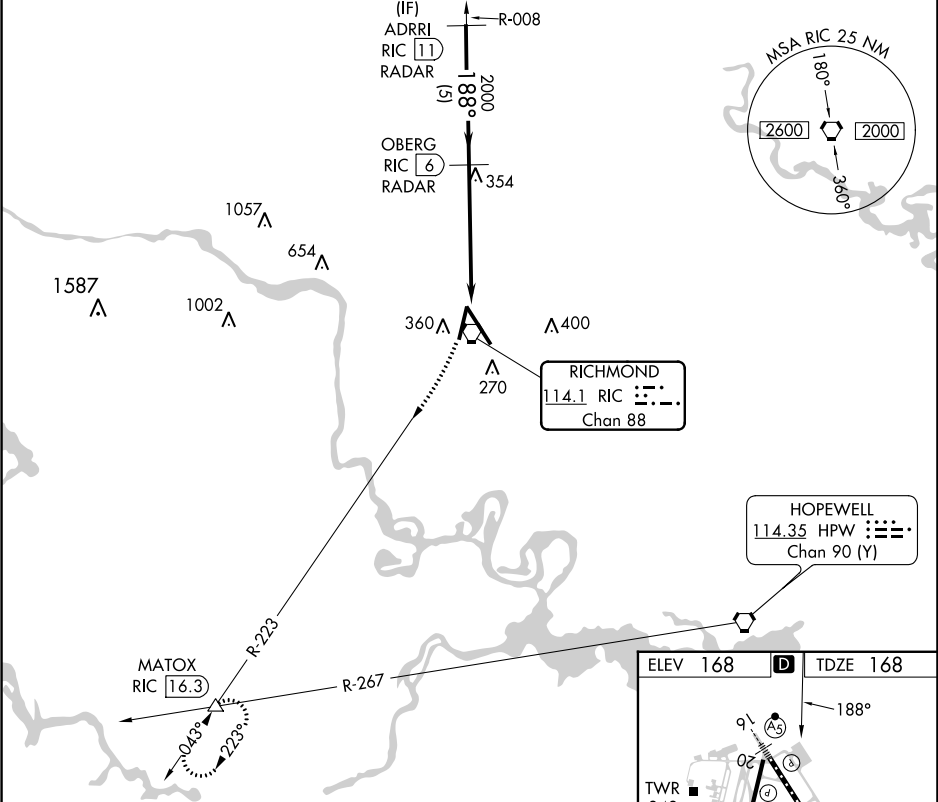
RICHMOND INTL (RIC)

RADAR required for procedure entry. DME or RADAR required.

MISSED APPROACH: Climbing right turn to 2000 on RIC R-223 to MATOX INT/RIC 16.3 DME and hold.

Rwy 20 helicopter visibility reduction below ¾ SM NA.

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



CATEGORY	A	B	C	D
S-20	660-1 492 (500-1)		660-1 492 (500-1 3/8)	
CIRCLING	660-1 492 (500-1)		700-1 532 (600-1 1/2)	720-2 552 (600-2)

TDZ/CL Rwy 34

HIRL Rwys 2-20 and 16-34

REIL Rwy 20

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

VORTAC RIC	APP CRS	Rwy Idg	9003
114.1	323°	TDZE	161
Chan 88		Apt Elev	167

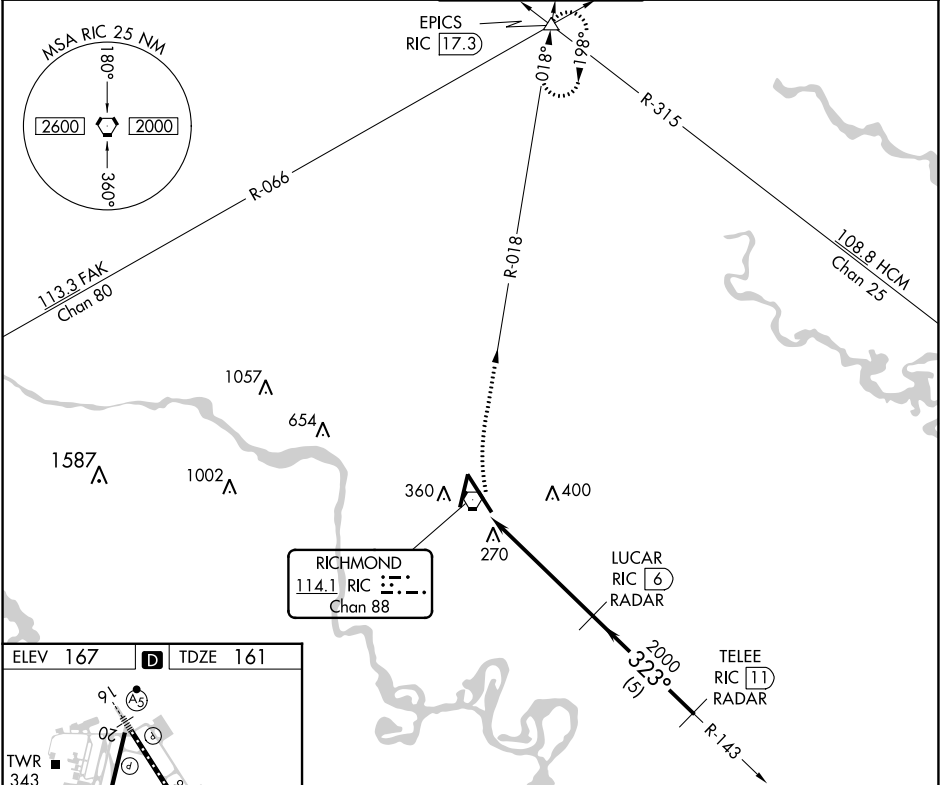
VOR RWY 34
RICHMOND INTL (RIC)

DME or RADAR required. RADAR required for procedure entry.

ALSF-2

MISSED APPROACH: Climbing right turn to 2000 via RIC R-018 to EPICS INT and hold.

ATIS	POTOMAC APP CON	RICHMOND TOWER	GND CON	CLNC DEL
119.15 263.025	126.4 282.375 (001°-185°) 126.75 307.2 (186°-360°)	121.1 257.8	121.9 348.6	127.55 348.6



ELEV 167

D

TDZE 161

TDZ/CL Rwy 34
HIRL Rwy 2-20 and 16-34
REIL Rwy 20

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

2000

EPICS

VGSI and descent angles not coincident (VGSI Angle 3/00/TCH 79).

RIC R-018

RIC VORTAC

RIC 1.7

RIC 0.8

LUCAR RIC 6 RADAR

TELEEE RIC 11 RADAR

CATEGORY	A	B	C	D
S-34	540/24 379 (400-½)		540/40 379 (400-¾)	540/50 379 (400-1)
CIRCLING	660-1 493 (500-1)		700-1½ 533 (600-1½)	720-2 553 (600-2)

NE-3, 22 FEB 2024 to 21 MAR 2024

NE-3, 22 FEB 2024 to 21 MAR 2024