Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 09/07/2006	Task #: 2006090719401301003	Request #: 20060907194013
Procedure: RNAV (GPS) RWY 34 ORIG		Airport ID: KWRL	Airport: WORLAND MUNI		Reimbursable #:
City: WORLAND	ST: WY	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	Fac. Type: LNAV	Specialist: ROY CURRIE			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/17/2011	03/14/2012	DEZ SILAGYI	PL
QA:	03/14/2012	03/15/2012	SCOTT BEARD	
Liaison:	03/15/2012		Terrell	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

Pkg 2 of 4

WORLAND, WY WORLAND MUNI (KWRL) RNAV (GPS) RWY 34, ORIG (LNAV) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): CRANY-INT, REV 4; HOLUT, ORIG; IKAME, ORIG; JITIP-INT, ORIG; JUNIV, ORIG; PEYIP, ORIG; WAPSU, ORIG; WUKUX, ORIG; ZURNA-INT, ORIG.

CONTACT: ADOLFO URRUTIA, AJV-354 LEAD, 405.954.2079.

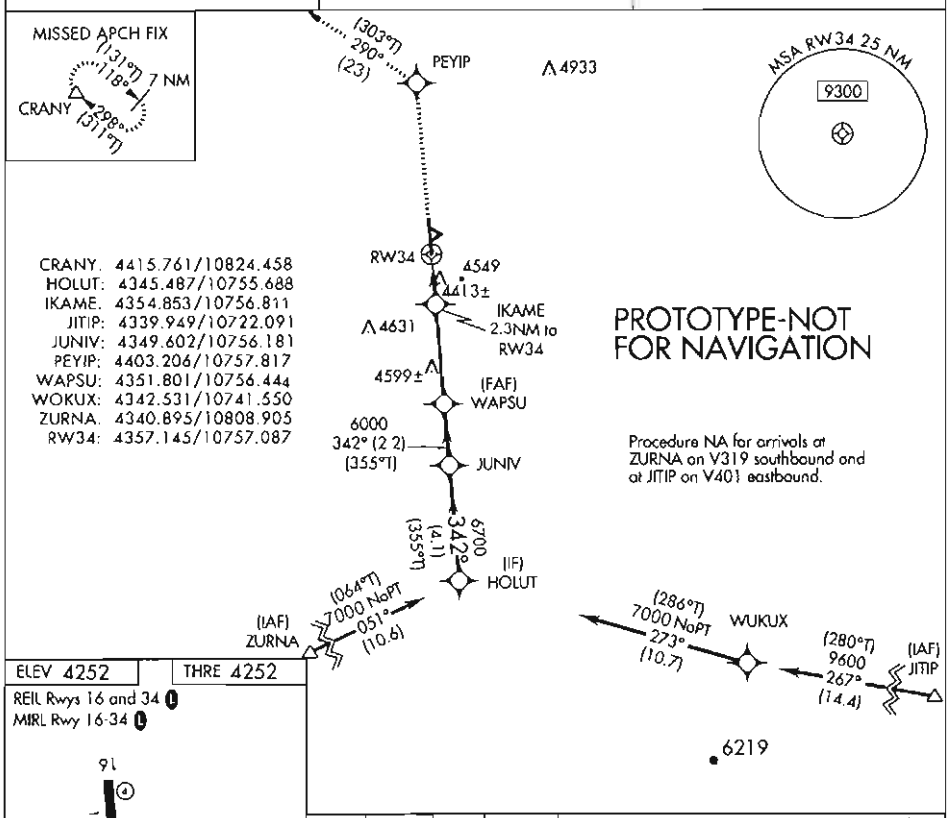
WAAS CH	APP CRS	Rwy ldg	7000
W34A	342°	THRE	4252
		Apt Elev	4252

RNAV (GPS) RWY 34
WORLAND MUNI (WRL)

When local altimeter setting not received, use Greybull altimeter setting and increase all MDA 140ft, and all visibilities 1/2 mile. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

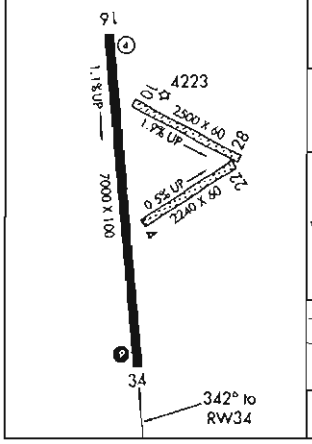
MISSED APPROACH. Climb to 8500 direct PEYIP and on track 290° to CRANY and hold.

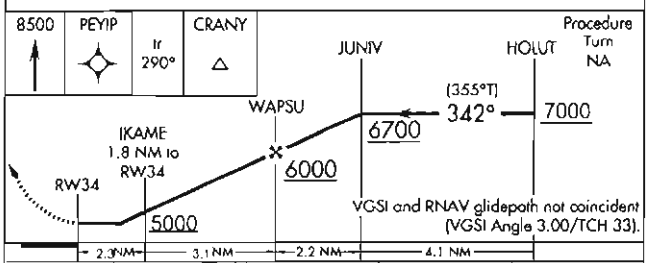
ASOS	SALT LAKE CENTER	UNICOM
135.475	133.25 285.6	123.05 (CTAF)



ELEV 4252 | THRE 4252

REIL Rwys 16 and 34
MIRL Rwy 16-34





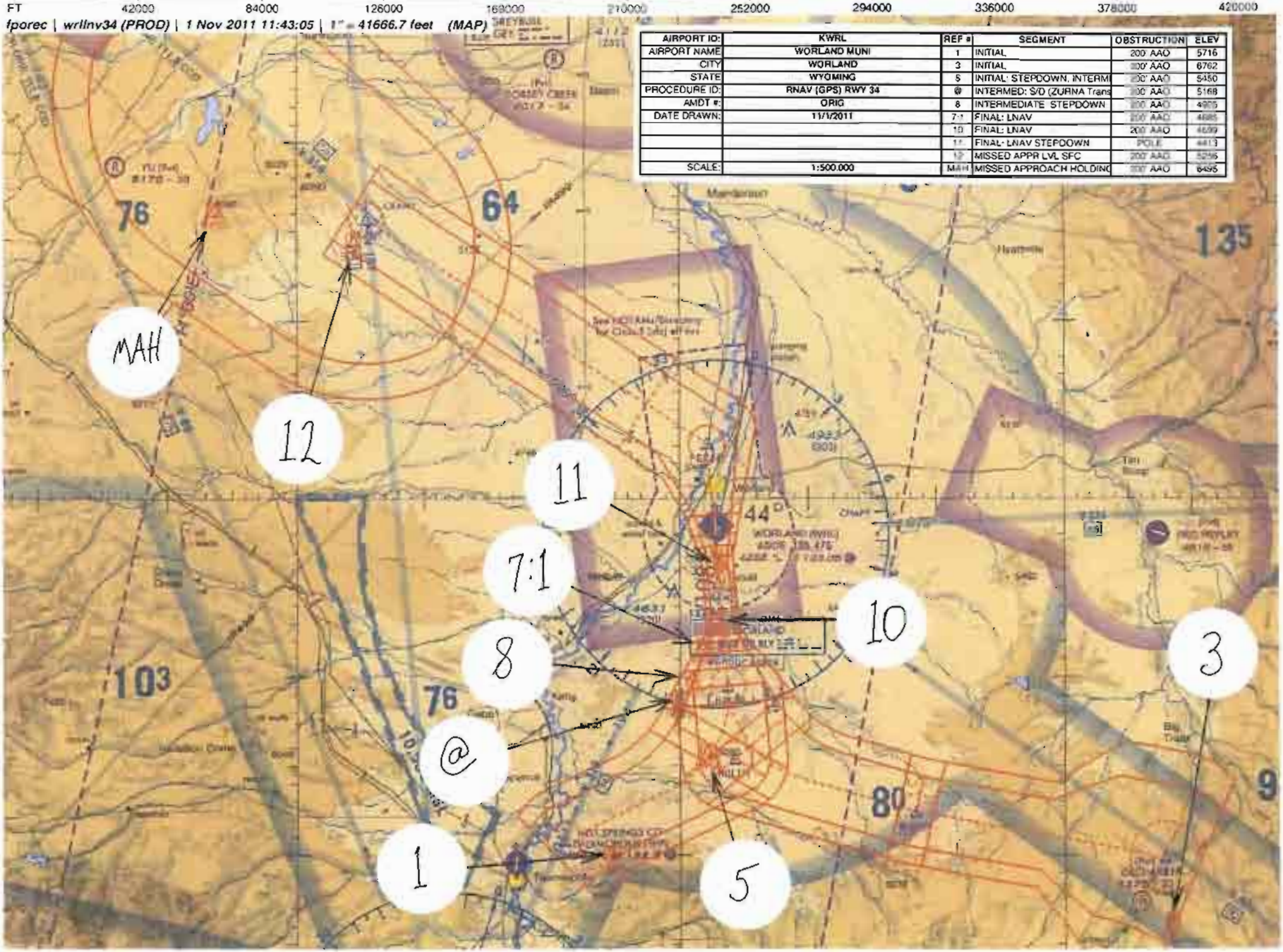
CATEGORY	A	B	C	D
LNAV MDA	4680-1 428 (500-1)		4680-1¼ 428 (500-1¼)	
CIRCLING	4880-1 628 (700-1)	4900-1 648 (700-1)	4900-1¾ 648 (700-1¾)	4900-2 648 (700-2)

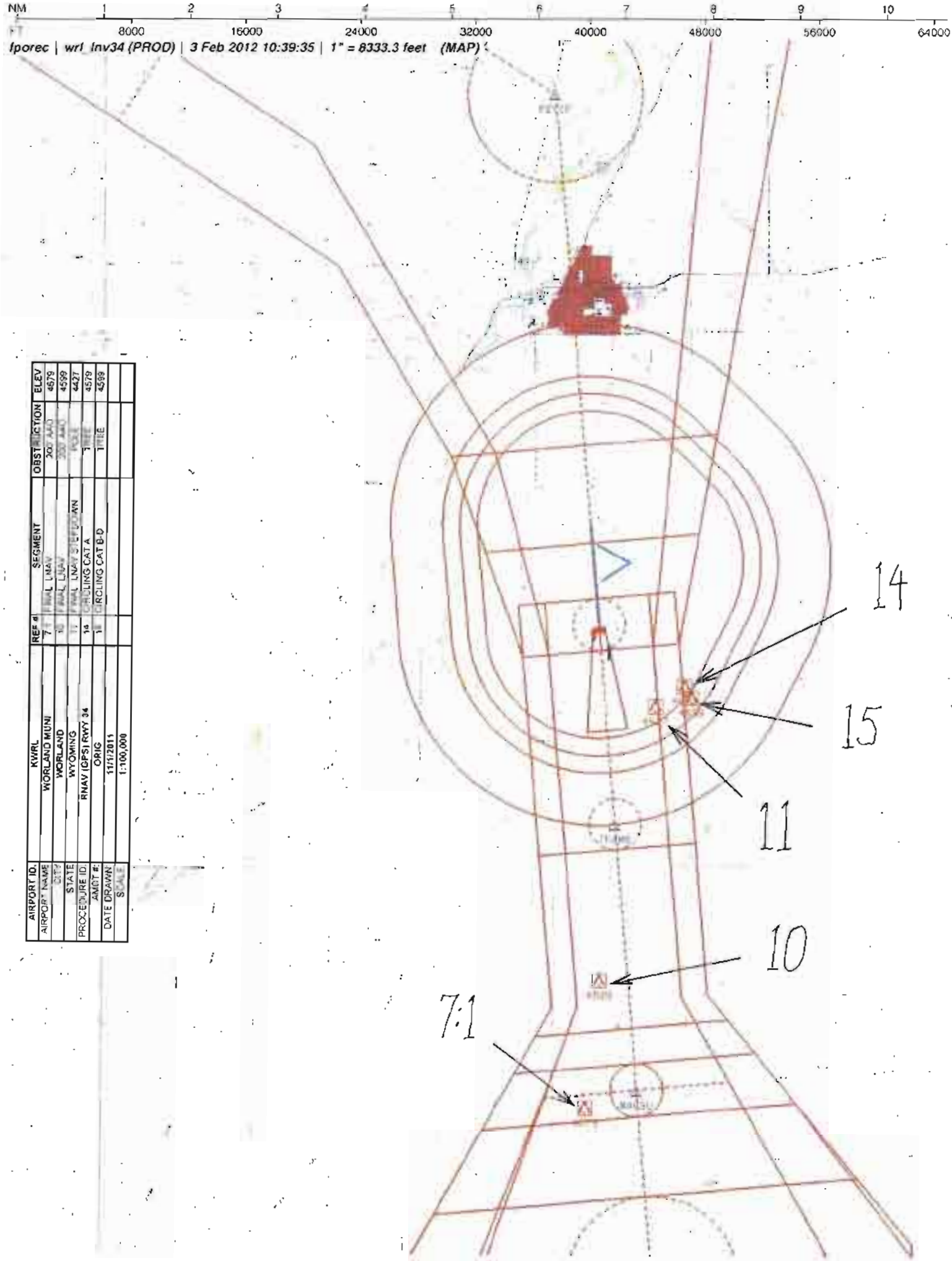
NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fporec | wrllnv34 (PROD) | 1 Nov 2011 11:43:05 | 1" = 41666.7 feet (MAP)

AIRPORT ID:	KWRL	REF #	SEGMENT	OBSTRUCTION	ELEV
AIRPORT NAME	WORLAND MUNI	1	INITIAL	200' AAO	5716
CITY	WORLAND	3	INITIAL	200' AAO	6762
STATE	WYOMING	5	INITIAL: STEPDOWN, INTERMI	200' AAO	5450
PROCEDURE ID:	RNAV (GPS) RWY 34	@	INTERMED: S/D (ZURNA Trans	200' AAO	5168
AMDT #:	ORIG	8	INTERMEDIATE STEPDOWN	200' AAO	4905
DATE DRAWN:	11/1/2011	7:1	FINAL: LNAV	200' AAO	4685
		10	FINAL: LNAV	200' AAO	4599
		11	FINAL: LNAV STEPDOWN	POLE	4413
		12	MISSED APPR LVL SFC	200' AAO	5256
SCALE:	1:500,000	MAH	MISSED APPROACH HOLDING	200' AAO	6495




NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fporec | wrl_inv34 (PROD) | 3 Feb 2012 10:39:35 | 1" = 8333.3 feet (MAP)
AIRPORT ID. KWRL
AIRPORT NAME WORLAND MUNI
CITY WORLAND
STATE WYOMING
PROCEDURE ID. RNAV (GPS) RWY 34
AMDT # ORIG
DATE DRAWN 11/1/2011
SCALE 1:100,000
REF # SEGMENT OBSTRUCTION ELEV
7:1 FINAL LNAV 200' AAD 4579
10 FINAL LNAV 200' AAD 4599
11 FINAL LNAV STEP DOWN POLE 4427
14 CIRCLING CAT A TREE 4579
15 CIRCLING CAT B-D TREE 4599
14
15
11
10
7:1

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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
ZURNA (IAF)	HOLUT (FB)	051.33 / 10.63	7000
JITIP (IAF)	WUKUX (FB)	267.47 / 14.35	9600
WUKUX	HOLUT (NOPT) (FB)	273.17 / 10.67	7000
HOLUT (IF)	JUNIV (FB)	342.05 / 4.13	6700
JUNIV	WAPSU (FB)	342.04 / 2.21	6000
WAPSU (FAF)	IKAME/2.30 NM TO RW34 (FB)	342.04 / 3.06	
(SEE FORM 8260-10)			

MISSED APPROACH

LNAV: RW34

CLIMB TO 8500 DIRECT PEYIP AND ON TRACK 290.36 TO CRANY AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 298.37 INBOUND.
CHART FAS OBST: 4427 POLE 435607N/1075611W
4599 AAO 435257N/1075703W
4679 AAO 435131N/1075715W.
REFERENCE PATH ID: W34A
WAPSU TO RW34: 3.00/40.
APT ELEV 4252.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT HOLUT
3. FAC: 342.04 FAF: WAPSU DIST FAF TO MAP: 5.36 THLD: 5.36
4. MIN. ALT: HOLUT 7000, JUNIV 6700, WAPSU 6000, IKAME/2.30 NM TO RW34 5000
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW34 9300

MAG VAR: 13E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A 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
LNAV MDA	4680	1	428	4680	1	428	4680	1 1/4	428	4680	1 1/4	428			
CIRCLING	4880	1	628	4900	1	648	4900	1 3/4	648	4900	2	648			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREYBULL ALTIMETER SETTING AND INCREASE ALL MDA 140 FT, AND ALL VISIBILITIES 1/2 MILE.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 34 PROCEDURE NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 4252 THRE: 4252	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WORLAND, WY	AIRPORT NAME: WORLAND MUNI	RNAV	RNAV (GPS) RWY 34, ORIG	AMDT: NONE
				DATED

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **ARPT MANGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **ROY E. CURRIE**	FIFO **AJV-354**	DATE: **10/27/2011**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO	DATE:

CHANGES:

ORIGINAL PROCEDURE

REASONS:

PER FPT.

QUALITY 4 CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IKAME/2.30 NM TO RW34	RW34 (MAP) (FO)	342.03 / 2.30	
RW34 (MAP)	4652 MSL	342.03	
4652 MSL	PEYIP (FB)		
PEYIP	CRANY (FO)	290.36/22.92	8500

NOTES, (CONT.):
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZURNA ON V319 SOUTHBOUND AND AT JITIP ON V401 EASTBOUND.

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 4252 THRE: 4252	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WORLAND, WY	AIRPORT NAME: WORLAND MUNI	RNAV	RNAV (GPS) RWY 34, ORIG	AMDT: NONE
				DATED:

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:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (GPS)

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CRANY K10    C   L N44154564W108242747                    E0111     NAR          CRANY
        SUSAEAENRT   HOLUT K10    W     N43452923W107554128                    E0108     NAR          HOLUT
        SUSAEAENRT   IKAME K10    W     N43545118W107564866                    E0108     NAR          IKAME
        SUSAEAENRT   JITIP K10    C   L N43395696W107220543                    E0105     NAR          JITIP
        SUSAEAENRT   JUNIV K10    W     N43493614W107561084                    E0108     NAR          JUNIV
        SUSAEAENRT   PEYIP K10    W     N44031237W107574904                    E0108     NAR          PEYIP
        SUSAEAENRT   WAPSU K10    W     N43514803W107562666                    E0108     NAR          WAPSU
        SUSAEAENRT   WUKUX K10    W     N43423185W107413300                    E0106     NAR          WUKUX
        SUSAEAENRT   ZURNA K10    C   L N43405369W108085429                    E0109     NAR          ZURNA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWRLK1AWRL     0     070YHN43574640W107570190E013004252        1800018000C    MNAR    WORLAND MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWRLK1FR34   AJITIP 010JITIPK1EA0E  A    IF                                          18000                B JS
        SUSAP KWRLK1FR34   AJITIP 020WUKUXK1EA0E    010TF                    26750144    + 09600                          B JS
        SUSAP KWRLK1FR34   AJITIP 030HOLUTK1EA0EE B 010TF                    27320107    + 07000                          B JS
        SUSAP KWRLK1FR34   AZURNA 010ZURNAK1EA0E  A    IF                                          18000                B JS
        SUSAP KWRLK1FR34   AZURNA 020HOLUTK1EA0EE B 010TF                    05130106    + 07000                          B JS
        SUSAP KWRLK1FR34   R      010HOLUTK1EA0E  I    IF                                + 07000     18000                B JS
        SUSAP KWRLK1FR34   R      011JUNIVK1EA0E S  051TF                    34210041    + 06700                          B JS
        SUSAP KWRLK1FR34   R      020WAPSUK1EA1E  F 051TF                    34200022    + 06000                 RW34  K1PGB JS
        SUSAP KWRLK1FR34   R      020WAPSUK1EA2WN          N          ALNAV                                                 JS
        SUSAP KWRLK1FR34   R      021IKAMEK1EA0E S  031TF                    34200031    V 0500005024        -300          B JS
        SUSAP KWRLK1FR34   R      030RW34 K1PG0GY M 031TF                    34200023      04292             -300          B JS
        SUSAP KWRLK1FR34   R      040         0  M     CA                    3420        + 04652                          B JS
        SUSAP KWRLK1FR34   R      050PEYIPK1EA0E       DF                                                                B JS
        SUSAP KWRLK1FR34   R      060CRANYK1EA0EY   010TF                    2904        + 08500                          B JS
        SUSAP KWRLK1FR34   R      070CRANYK1EA0EE  R   HM                    29840070    + 08500                          B JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWRLK1GRW34    0070013420 N43570867W107570520-1100    +1282804252000040100R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 4252 THRE: 4252	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORLAND, WY	AIRPORT NAME: **WORLAND MUNI**	**RNAV**	**RNAV (GPS) RWY 34, ORIG**	AMDT: **NONE**
				DATED:

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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```
SUSAP KWRLK1SRW34 K1PG          0   18018009325                                                    M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 4252 THRE: 4252	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORLAND, WY	AIRPORT NAME: WORLAND MUNI	RNAV	RNAV (GPS) RWY 34, ORIG	AMDT: NONE
				DATED:

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

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	JITIP	JITIP	010	IAF	IF		FB					
	JITIP	WUKUX	020		TF		FB	1.0	267.5(280.5T)	014.4	AA 09600	
	JITIP	HOLUT	030		TF		FB	1.0	273.2(286.2T)	010.7	AA 07000	
	ZURNA	ZURNA	010	IAF	IF		FB					
	ZURNA	HOLUT	020		TF		FB	1.0	051.3(064.3T)	010.6	AA 07000	
		HOLUT	010	FACF	IF		FB				AA 07000	
		JUNIV	011	SDF	TF		FB	0.5	342.1(355.1T)	004.1	AA 06700	
		WAPSU	020	FAF	TF		FB	0.5	342.0(355.0T)	002.2	AA 06000	
		IKAME	021	SDF	TF		FB	0.3	342.0(355.0T)	003.1	AA 05000 GS 05024	
		RW34	030	MAP	TF		FO	0.3	342.0(355.0T)	002.3	AT 04292	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		342.0(355.0T)		AA 04652	
	PEYIP	050		DF		FB					
	CRANY	060		TF		FO	1.0	290.4(303.4T)		AA 08500	
	CRANY	070		HM	R	FO		298.4(311.4T)	007.0	AA 08500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CRANY	N441545.64	W1082427.47	N4415.761	W10824.458
	HOLUT	N434529.23	W1075541.28	N4345.487	W10755.688
	IKAME	N435451.18	W1075648.66	N4354.853	W10756.811
	JITIP	N433956.96	W1072205.43	N4339.949	W10722.091
	JUNIV	N434936.14	W1075610.84	N4349.602	W10756.181
	PEYIP	N440312.37	W1075749.04	N4403.206	W10757.817
	WAPSU	N435148.03	W1075626.66	N4351.801	W10756.444
	WUKUX	N434231.85	W1074133.00	N4342.531	W10741.550
	ZURNA	N434053.69	W1080854.29	N4340.895	W10808.905
	RW34	N435708.67	W1075705.20	N4357.145	W10757.087

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW34	04252	40

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 4252 THRE: 4252	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORLAND, WY	AIRPORT NAME: **WORLAND MUNI**	**RNAV**	**RNAV (GPS) RWY 34, ORIG**	AMDT: **NONE**
				DATED:

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.
INITIAL	ZURNA	HOLUT	1. AAO	433945.00N/1080515.00W	5716 (4E)	1000		6800
			2. TERRAIN	433945.00N/1080515.00W	5516 (5500)		AS1500	7000
INITIAL	JITIP	WUKUX	3. AAO	433557.00N/1072127.00W	6762 (4E)	1000	AT1838	9600
			4. TERRAIN	433633.00N/1072609.00W	6237 (6200)		AS1500	7700
INITIAL: STEPDOWN	WUKUX	HOLUT	5. AAO	434530.50N/1075741.30W	5450 (6C)	1000	AT550	7000
			6. TERRAIN	434103.00N/1074233.00W	5020 (5000)		AS1500	6500
INTERMEDIATE	HOLUT	JUNIV	5. AAO	434530.50N/1075741.30W	5450 (6C)	500	DG750	6700
			7. TERRAIN	434530.50N/1075741.30W	5250 (5300)		AS1000	6300
INTERMEDIATE:	JUNIV	WAPSU	8. AAO	434936.00N/1075857.00W	4925 (4E)	500	DG575	6000
STEPDOWN			9. TERRAIN	434936.00N/1075857.00W	4725 (4700)		AS1000	5700
FINAL: LNAV	WAPSU	IKAME/2.30 NM TO	10. AAO	435257.00N/1075703.00W	4599 (2C)	250	RA122 DG29	5000
		RW34						
FINAL: LNAV STEPDOWN	IKAME/2.30 NM TO	RW34	11. POLE (KWRLT0439)	435607.36N/1075610.98W	4427 (2C)	250		4680
	RW34							
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	RW34	CRANY				ASC		8500
			12. AAO	441409.00N/1082527.00W	5256 (4E)	1000		6300
ELEV:	4580		13. TERRAIN	441409.00N/1082527.00W	5056 (5100)		AS1500	6600
14. TREE				435621.00N/1075542.00W	4579 (2C)	300		4880
15. AAO				435613.00N/1075535.77W	4599 (2C)	300		4900
15. AAO				435613.00N/1075535.77W	4599 (2C)	300		4900
15. AAO				435613.00N/1075535.77W	4599 (2C)	300		4900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	628
CATEGORY B	1.5 NM	450	648
CATEGORY C	1.7 NM	450	648
CATEGORY D	2.3 NM	550	648
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW34

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	163/ 27.8	8222 (4E)	9300					4

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WORLAND, WY	ELEVATION: 4252 AIRPORT NAME: WORLAND MUNI	RNAV	RNAV (GPS) RWY 34, ORIG	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZLC ARTCC	X	N W S	OTHER: ASOS / ASOS	SOURCE: KWRL / KGEY
	X	F A A		DISTANCE: 0 / 33.79
		A / C		HOURS REMOTE OPERATION: 24
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KWRL/KGEY			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 16, 34
	X	REIL 16, 34
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 16, 34

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 16, 34
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	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ROY E. CURRIE	DATE: 10/27/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1 SURFACE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: 3.00 / 33 TCH

SEE ATTACHED AIRSPACE LETTER.

RASS PRESSURE PATTERNS SAME
KWRL 4251.8, KGEY 3941.9
RA = 122.0

50' TREES USED WITHIN 5NM OF AIRPORT.

TAA NOT DEVELOPED PER FPO AND ATC REQUEST.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
20:1
4287 POLE (KWRL0018) 435701.83N/1075709.83W (12.22)
34:1
4287 POLE (KWRL0018) 435701.83N/1075709.83W (21.68)

LPV MINIMUMS NOT POSSIBLE DUE TO GQS PENETRATIONS:
4269 RD (KWRLT0316) 435704.90N/1075706.52W (2C) (4.41)
4270 RD (KWRLT0319) 435704.69N/1075704.96W (2C) (4.32)
4270 RD (KWRLT0320) 435704.51N/1075703.55W (2C) (3.37)
4270 RD (KWRLT0324) 435704.31N/1075702.17W (2C) (2.36)
4253 RD (KWRLT0018) 435708.60N/1075704.78W (2C) (1.06)
4253 REIL (KWRLT0014) 435708.20N/1075706.38W (2C)
(0.00)

TERPS 289 APPLIED TO 4679 AAO 435131N/1075715W.

LP FINAL EVALUATED RESULTING IN NO ADVANTAGE TO MINIMUMS.

WUKUX WAS ADDED TO THE INITIAL SEGMENT FROM JITIP TO ALLOW SUFFICIENT LEG LENGTH FROM HOLUT TO JUNIV.

@ ZURNA TRANSITION IDENTIFIES A DIFFERENT OBSTACLE IN THE INTERMEDIATE STEPDOWN SEGMENT FROM JUNIV TO WAPSU:
AAO 434824.00N/1075957.00W 5168 (4E) 500 SA-66 DG266
6000
TERRAIN 434936.00N/1075906.00W 4738 (4700) AS1000
5700

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: CRANY **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 441545.64N/1082427.47W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	WORLAND	RLY	VOR/DME	L	299.37	312.37	26.66	26.66		8500	17500
2	BOYSEN RESERVOIR	BOY	VOR/DME	H	338.46	354.46	48.20	48.20		9000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BOY	VOR/DME	R-338	49	90	211

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	SE		WP	118.37	298.37	R		7	8500	14000	10	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	200' AAO	441810.10N/1083129.20W	6429	6A
1	310	200' AAO	441552.60N/1083619.30W	6495	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS)-A	KGEY	GREYBULL	WY (US)

REMARKS:
WORLAND (FAC 1) AND BOYSEN RESERVOIR (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V187					(US)
EN ROUTE	V319					(US)
IAP	RNAV (GPS) RWY 22			KCOD	CODY	WY (US)
IAP	RNAV (GPS) RWY 34		1	KGEY	GREYBULL	WY (US)
IAP	RNAV (GPS)-A		1	KGEY	GREYBULL	WY (US)
IAP	RNAV (GPS) RWY 16			KWRL	WORLAND	WY (US)
IAP	RNAV (GPS) RWY 34		1	KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
1. DELETED FAC 3, NO LONGER REQUIRED.
2. CHANGED MIN HOLDING ALTITUDE ON PAT 1 FROM: 9000; TO: 8500.
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/20/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOLUT **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 434529.23N/1075541.28W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 10/27/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IKAME **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 435451.18N/1075648.66W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 10/27/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JITIP **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 433956.96N/1072205.43W **TYPE:** WP, DME

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

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	WORLAND	RLY	VOR/DME	L	112.06	125.06	31.00	31.00		11000	17500

REMARKS:
WORLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V401	1				(US)
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 04/05/2012

DEVELOPED BY: **DATE:** 09/06/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JUNIV **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 434936.14N/1075610.84W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 10/24/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: PEYIP **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 440312.37N/1075749.04W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 16			KWRL	WORLAND	WY (US)
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 04/05/2012

DEVELOPED BY: **DATE:** 09/06/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WAPSU **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 435148.03N/1075626.66W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 16			KWRL	WORLAND	WY (US)
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:

7/16/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 5/31/2012.
ADDED "REQUIRED CHARTING: IAP".

DEVELOPED BY: **DATE:** 09/08/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** 06/26/2012 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WUKUX **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 434231.85N/1074133.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 04/05/2012

DEVELOPED BY: **DATE:** 10/24/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZURNA **STATE:** WY **COUNTRY:** US

LATITUDE/LONGITUDE: 434053.69N/1080854.29W **TYPE:** WP, DME

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

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	WORLAND	RLY	VOR/DME	L	193.92	206.92	19.00	19.00		9600	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	N		WP	193.82	193.82	R		7	9600	17500	10	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	433736.00N/1080233.00W	6116	4E
1	310	AAO	433736.00N/1080233.00W	7061	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 16	KWRL	WORLAND	WY (US)

REMARKS:
WORLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V319	1				(US)
IAP	RNAV (GPS) RWY 16		1	KWRL	WORLAND	WY (US)
IAP	RNAV (GPS) RWY 34			KWRL	WORLAND	WY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 04/05/2012

DEVELOPED BY: **DATE:** 09/06/2011 **OFFICE:** AJV-354 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WORLAND** STATE: **WY**

AIRPORT NAME: **WORLAND MUNI** ID: **KWRL**

PROCEDURE: **RNAV (GPS) RWY 34** AMDT: **ORIG**

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 **3.70**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **355.05**
4. High Terrain in **FINAL** segment containing 1000' point **4479**
5. Distance from **THLD** to 1500' point **6.96**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **2.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **355.05**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **5250**
9. Threshold Coordinates (if straight-in) ... **435708.66N** / **1075705.21W**
10. ARP Coordinates ..... **435746.61N** / **1075701.79W**
11. Runway Approach End and distance furthest from ARP.....RWY **34**
    Distance **0.63** NM
12. FAF Coordinates ..... **435148.06N** / **1075626.75W**
    (Click to Select)

REMARKS: Approach/Drawing attached.