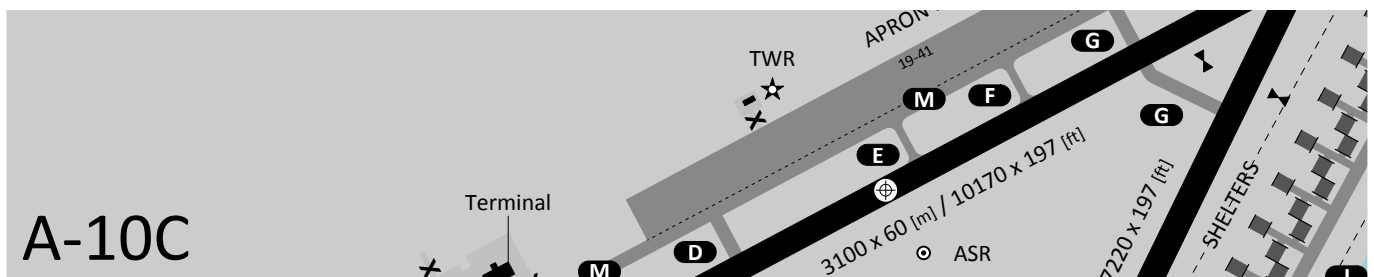


# AERODROME CHARTS

Consistent with Version 1.2.4

[www.10thGunfighters.de](http://www.10thGunfighters.de)  
[www.ariescon.com](http://www.ariescon.com)

rev 3.6.0  
03.05.2013 © dp



A-10C

& Flaming Cliffs 3

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		29	17 - URMN Mineralnye Vody
		30	18 - URMN Nalchik
		31	19 - URMO Beslan
		32	20 - URSS Sochi - Adler
		33	Intentionally Left Blank
		34	21 - XRMF Mozdok

# GENERAL INFORMATION

General information	<p>All included ground charts are based on Eagle Dynamics DCS combat flight simulator. This package supports the A-10C &amp; FC3 modules. The Aries Wings ATC software will also contain these charts.</p> <p>Real life aviation procedures were adapted to fit the needs of a flight simulation. Certain rules differ from the real world. Therefore the following charts are intended for use within the simulation only.</p> <p>Visual approach and departure procedures can be found in a separate chart package.</p>
Technical information	<ul style="list-style-type: none"> <li>- The magnetic variation contained in the DCS A-10C module was taken on the maps with a tolerance of <math>\pm 1^\circ</math>.</li> <li>- All tracks are given to magnetic &amp; true north.</li> <li>- All directions and positions correspond to the CDU of the A-10C.</li> </ul> <div> <p>- Some runway designations were also adjusted to meet the mentioned variation. The taxiway names have also been revised and do not match the in game TWY designations. This was done to achieve a greater realism and to enable the support for human controlled ATC procedures.</p> </div>
Software source citation & version number	<p>Lock On Flaming Cliffs by Eagle Dynamics (GND Charts Version 2.0, 2007)</p> <p>Lock On Flaming Cliffs 2 &amp; DCS BS by Eagle Dynamics (GND Charts Version 2.1, 2.5, 2008/09)</p> <p>DCS A-10C Warthog by Eagle Dynamics (GND Charts Version 3.0, 3.5, 2011/12)</p> <p>DCS A-10C Warthog &amp; FC3 by Eagle Dynamics (GND Charts Version 3.6, 2013)</p>
Procedures and symbology source citation	Amt für Flugsicherung der Bundeswehr, CENOR, various civilian and military sources, v 10th Gunfighters, v JaBoG32
Author	Schleudersitz
Contributors (in alphabetical order)	Asgard, Balu, Bosshog, Chrissi, Laud, Leto, Theoretic, v JaBoG32
Copyright	<p>dp</p> <p>This project is non-commercial and therefore may not be used commercially by third parties.</p> <p>This document may be used and distributed free of charge. It may be offered for download without further consent of the owner.</p> <p>Any alterations of the document are subject to permission of the author.</p>

# AERODROME INDEX

## Georgian Aerodromes


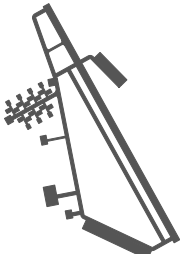
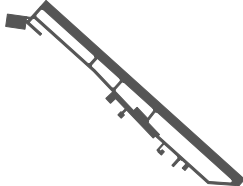
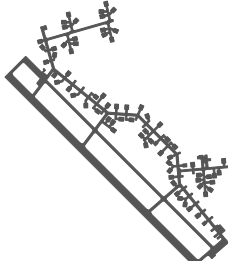
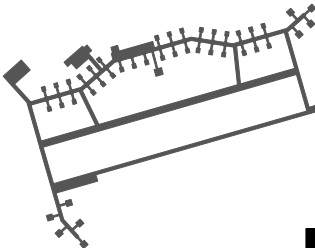

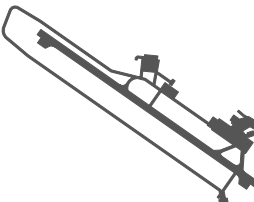
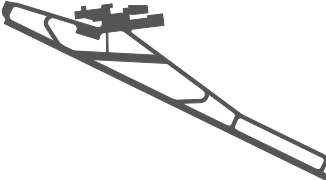
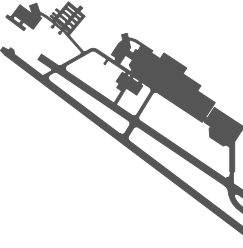
No.	Aerodrome	Location indicator	ARP	TWR	TACAN	RWY	ILS
<b>01</b>	Kobuleti	UG5X	41°55.797'N 041°51.809'E	133.000 MHz	67X "KBL" (134.00 MHz)	<b>07</b>	111.50 MHz
<b>02</b>	Gudauta	UG23	43°06.856'N 040°34.187'E	130.000 MHz			
<b>03</b>	Tbilisi - Soganlug	UG24	41°38.970'N 044°56.304'E	139.000 MHz			
<b>04</b>	Vaziani	UG27	41°37.743'N 045°01.632'E	140.000 MHz	22X "VAS" (108.50 MHz)	<b>13</b>	108.75 MHz
						<b>31</b>	108.75 MHz
<b>05</b>	Kutaisi - Kopitnari	UGKO	42°10.657'N 042°28.874'E	134.000 MHz	44X "KTS" (110.70 MHz)	<b>08</b>	109.75 MHz
<b>06</b>	Senaki - Kolkhi	UGKS	42°14.454'N 042°02.861'E	132.000 MHz	31X "TSK" (109.40 MHz)	<b>09</b>	108.90 MHz
<b>07</b>	Batumi	UGSB	41°36.562'N 041°36.034'E	131.000 MHz	16X "BTM" (135.90 MHz)	<b>13</b>	110.30 MHz
<b>08</b>	Sukhumi - Babushara	UGSS	42°51.677'N 041°07.474'E	129.000 MHz			
<b>09</b>	Tbilisi - Lochini	UGTB	41°40.095'N 044°57.283'E	138.000 MHz		<b>13R</b>	110.30 MHz
						<b>31L</b>	108.90 MHz

## Russian Aerodromes

No.	Aerodrome	Location indicator	ARP	TWR	TACAN	RWY	ILS
<b>10</b>	Anapa - Vityazevo	URKA	45°00.298'N 037°20.870'E	121.000 MHz			
<b>11</b>	Gelendzhik	URKG	44°34.364'N 038°00.684'E	126.000 MHz			
<b>12</b>	Maykop - Khanskaya	URKH	44°40.874'N 040°02.112'E	125.000 MHz			
<b>13</b>	Krasnodar - Pashkovsky	URKK	45°02.276'N 039°11.282'E	128.000 MHz			
<b>14</b>	Krasnodar - Center	URKL	45°05.216'N 038°56.415'E	122.000 MHz			
<b>15</b>	Novorossiysk	URKN	44°40.084'N 037°46.694'E	123.000 MHz			
<b>16</b>	Krymsk	URKW	44°58.073'N 037°59.697'E	124.000 MHz			
<b>17</b>	Mineralnye Vody	URMM	44°13.672'N 043°04.870'E	135.000 MHz		<b>12</b>	111.70 MHz
						<b>30</b>	109.30 MHz
<b>18</b>	Nalchik	URMN	43°30.842'N 043°38.193'E	136.000 MHz		<b>24</b>	110.50 MHz
<b>19</b>	Beslan	URMO	43°12.342'N 044°36.346'E	141.000 MHz		<b>10</b>	110.50 MHz
<b>20</b>	Sochi - Adler	URSS	43°26.669'N 039°56.489'E	127.000 MHz		<b>06</b>	111.10 MHz
<b>21</b>	Mozdok	XRMF	43°47.504'N 044°35.981'E	137.000 MHz			

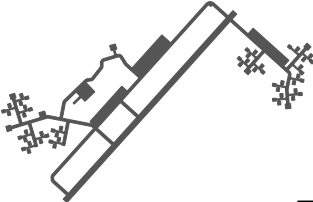
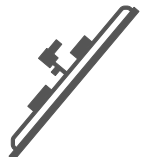
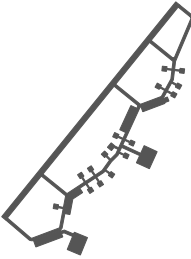
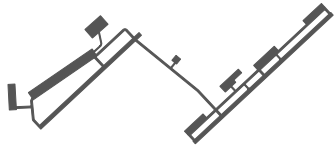
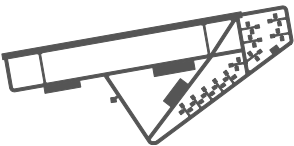
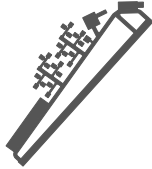
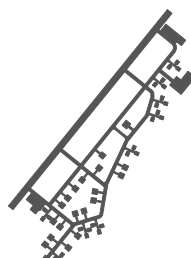
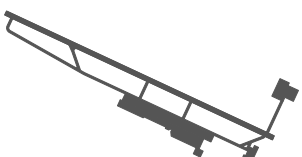


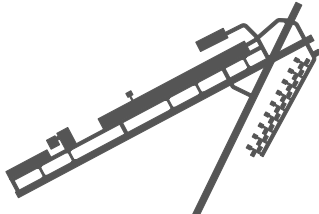
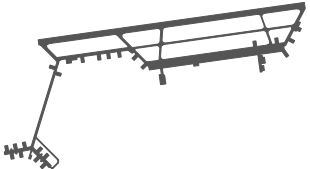
# AERODROME GROUND CHARTS OVERVIEW

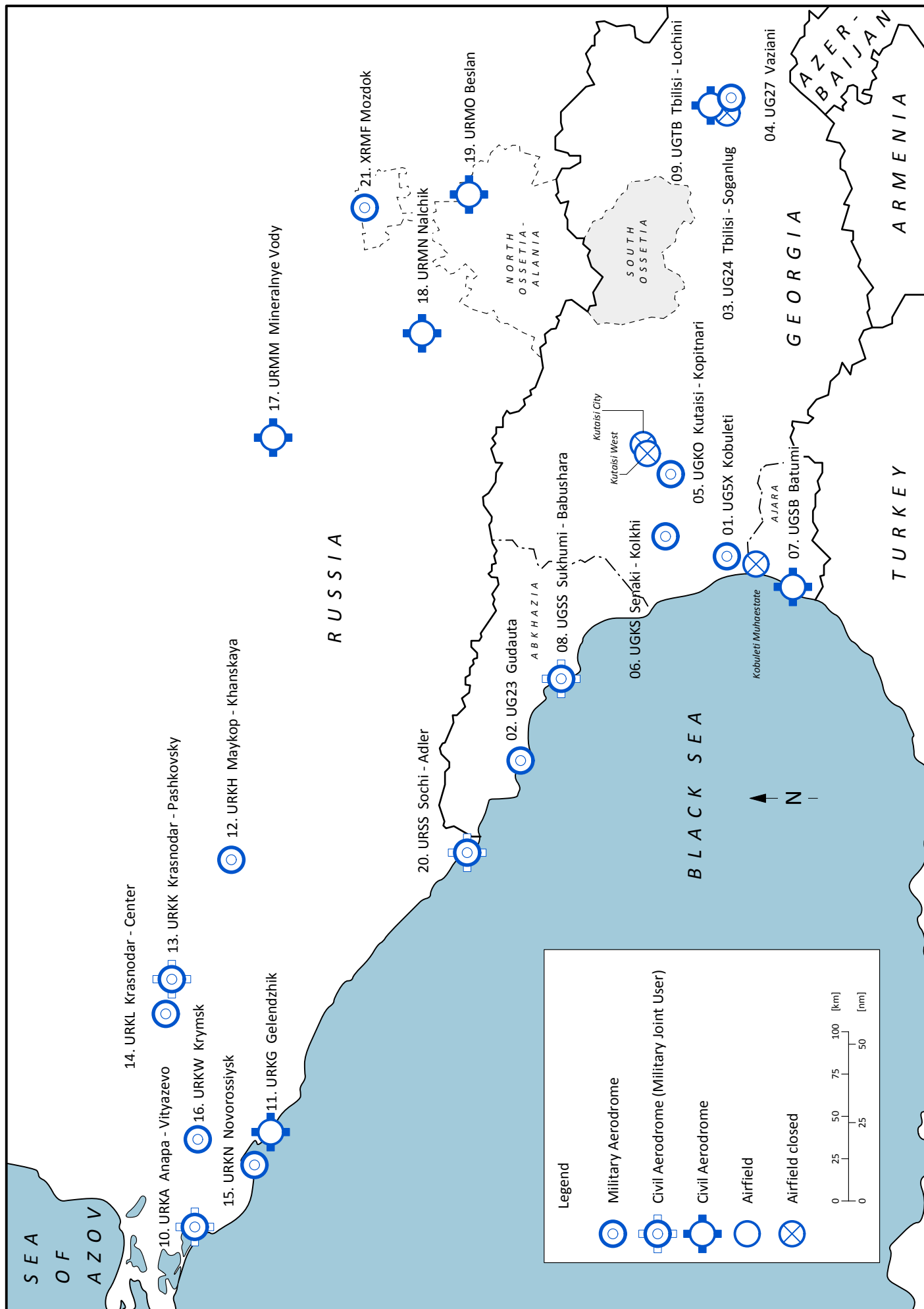
## GEORGIA

<b>KOBULETI (UG5X)</b> RWY 07-25 : 2400x60[m] 7870x197[ft]  <b>1</b>	<b>GUDAUTA (UG23)</b> RWY 15-33 : 2500x60[m] 8200x197[ft]  <b>2</b>	<b>TBILISI - SOGANLUG (UG24)</b> RWY 13-31 : 2475x80[m] 8120x262[ft]  <b>3</b>	<b>VAZIANI (UG27)</b> RWY 13-31 : 2485x62[m] 8150x203[ft]  <b>4</b>
<b>KUTAIISI - KOPITNARI (UGKO)</b> RWY 08-26 : 2500x60[m] 8200x197[ft]  <b>5</b>	<b>SENAKI - KOLKHI (UGKS)</b> RWY 09-27 : 2375x50[m] 7790x164[ft]  <b>6</b>	<b>BATUMI (UGSB)</b> RWY 13-31 : 2455x60[m] 8050x197[ft]  <b>7</b>	<b>SUKHUMI - BABUSHARA (UGSS)</b> RWY 12-30 : 3540x60[m] 11610x197[ft]  <b>8</b>
<b>TBILISI - LOCHINI (UGTB)</b> RWY 13R-31L : 2920x45[m] 9580x150[ft]  <b>9</b>			

# AERODROME GROUND CHARTS OVERVIEW

## RUSSIA

<b>ANAPA - VITYAZEVO (URKA)</b> RWY 04-22 : 2900x60[m] 9510x197[ft]  <b>10</b>	<b>GELENDZHIK (URKG)</b> RWY 04-22 : 1800x60[m] 5905x197[ft]  <b>11</b>	<b>MAYKOP - KHANSKAYA (URKH)</b> RWY 04-22 : 3200x60[m] 10495x197[ft]  <b>12</b>	<b>KRASNODAR - PASHKOVSKY (URKK)</b> RWY 05L-23R : 2265x60[m] 7430x197[ft] RWY 05R-23L : 3100x60[m] 10170x197[ft]  <b>13</b>
<b>KRASNODAR - CENTER (URKL)</b> RWY 09-27 : 2500x60[m] 8200x197[ft]  <b>14</b>	<b>NOVOROSIYSK (URKN)</b> RWY 04-22 : 1800x60[m] 5905x197[ft]  <b>15</b>	<b>KRYMSK (URKW)</b> RWY 04-22 : 2600x60[m] 8530x197[ft]  <b>16</b>	<b>MINERALNYE VODY (URMM)</b> RWY 12-30 : 4070x60[m] 13350x197[ft]  <b>17</b>
<b>NALCHIK (URMN)</b> RWY 06-24 : 2300x60[m] 7545x197[ft]  <b>18</b>	<b>BESLAN (URMO)</b> RWY 10-28 : 3015x50[m] 9890x164[ft]  <b>19</b>	<b>SOCHI - ADLER (URSS)</b> RWY 06-24 : 3100x60[m] 10170x197[ft] RWY 02-20 : 2200x60[m] 7220x197[ft]  <b>20</b>	<b>MOZDOK (XRMF)</b> RWY 08-26 : 3120x70[m] 10235x230[ft]  <b>21</b>



## AERODROME NAME

**Runway Designator**  
(letter "L" for left "C" for center or "R" for right - are used for parallel runways)

**Threshold Elevation, MSL**

**TWR Tower**

**Taxiway Letters &- or Numbers**

**APRON 1**

**APRON 2**

**APRON 3**

**Fire Station 1**

**Fire Station 2**

**Fire Station 3**

**Maintenance Area**

**Cargo Store**

**Fuel Depot**

**Road**

**Railway tracks**

**Power transmission line**

**Built-up Area**

**Water**

**Geographic Grid in degrees and minutes**

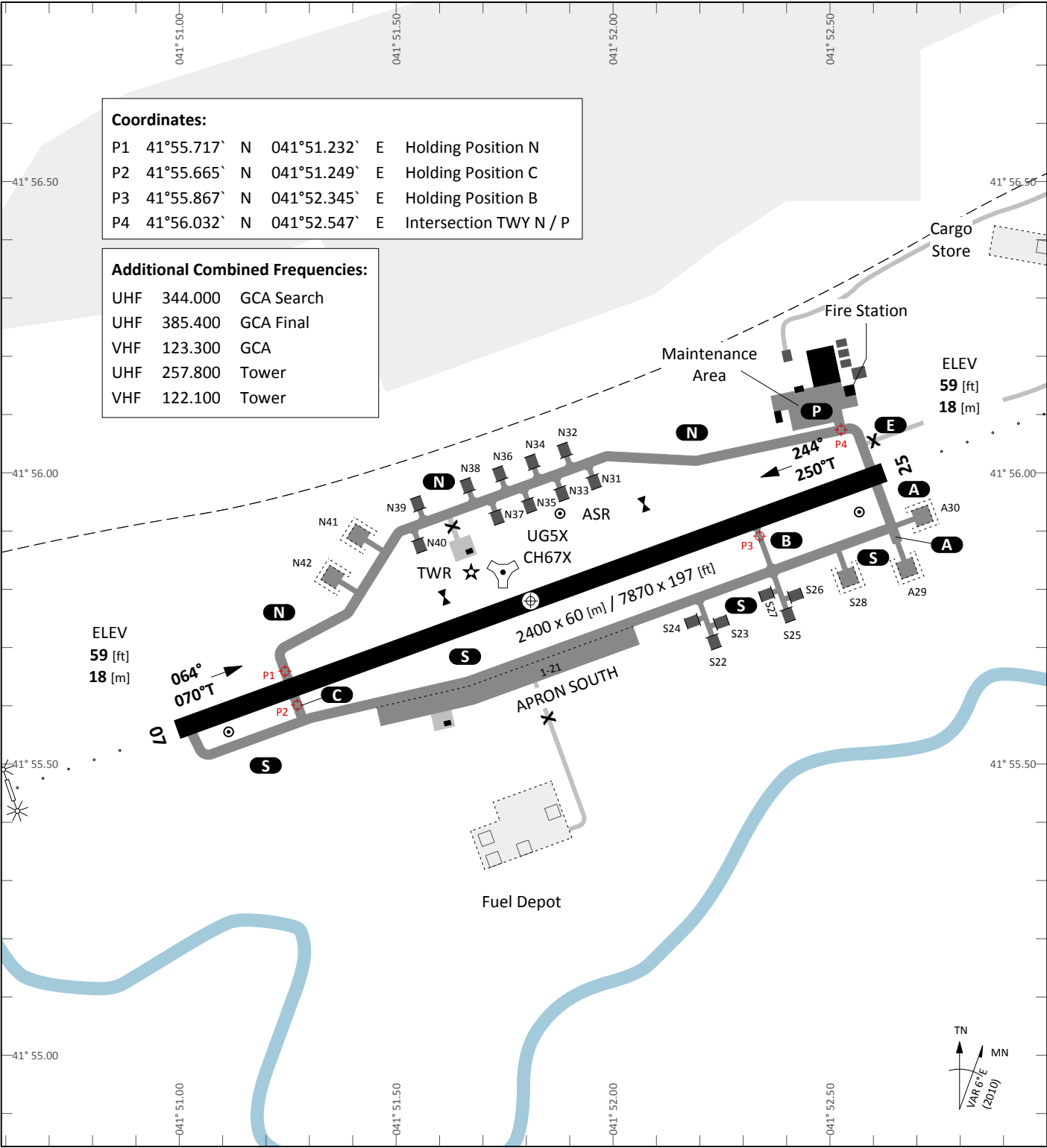
**Magnetic Variation or Declination**

**TN = True North**  
**MN = Magnetic North**

Abbreviation	Full Name
RWY	Runway
TORA	Take Off Run Available
TODA	Take Off Distance Available
ASDA	Accelerate Stop Distance Available
LDA	Landing Distance Available
PSN THR	Position Threshold
ALS	Approach Lighting Systems
CLG	Ceiling
DA	Decision Altitude
HAT	Height above Touchdown Zone Elevation
MDA	Minimum Descent Altitude
VIS/RVR	Visual Range/Runway Visual Range

	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:33'000	
PAR	05L - 23R	A B C D E	312 - 0.8 200 (200-0.8/1.6) GS 3°	45° 02.153` N	112 [ft]		
SRA	05L - 23R	A B C D E	462 - 1.2 350 (350-1.2/1.6)	039° 11.481` E	34 [m]		
RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS	
Precision Approach Radar (Precision Approach)			DA - VIS HAT (CLG-VIS/ALS VIS) Glide Slope				
Surveillance Radar Approach (Non-Precision Approach)							
Tower	Radar	Final - Precision	TACAN	ILS			





**Coordinates:**

P1 41°55.717` N 041°51.232` E Holding Position N  
P2 41°55.665` N 041°51.249` E Holding Position C  
P3 41°55.867` N 041°52.345` E Holding Position B  
P4 41°56.032` N 041°52.547` E Intersection TWY N / P

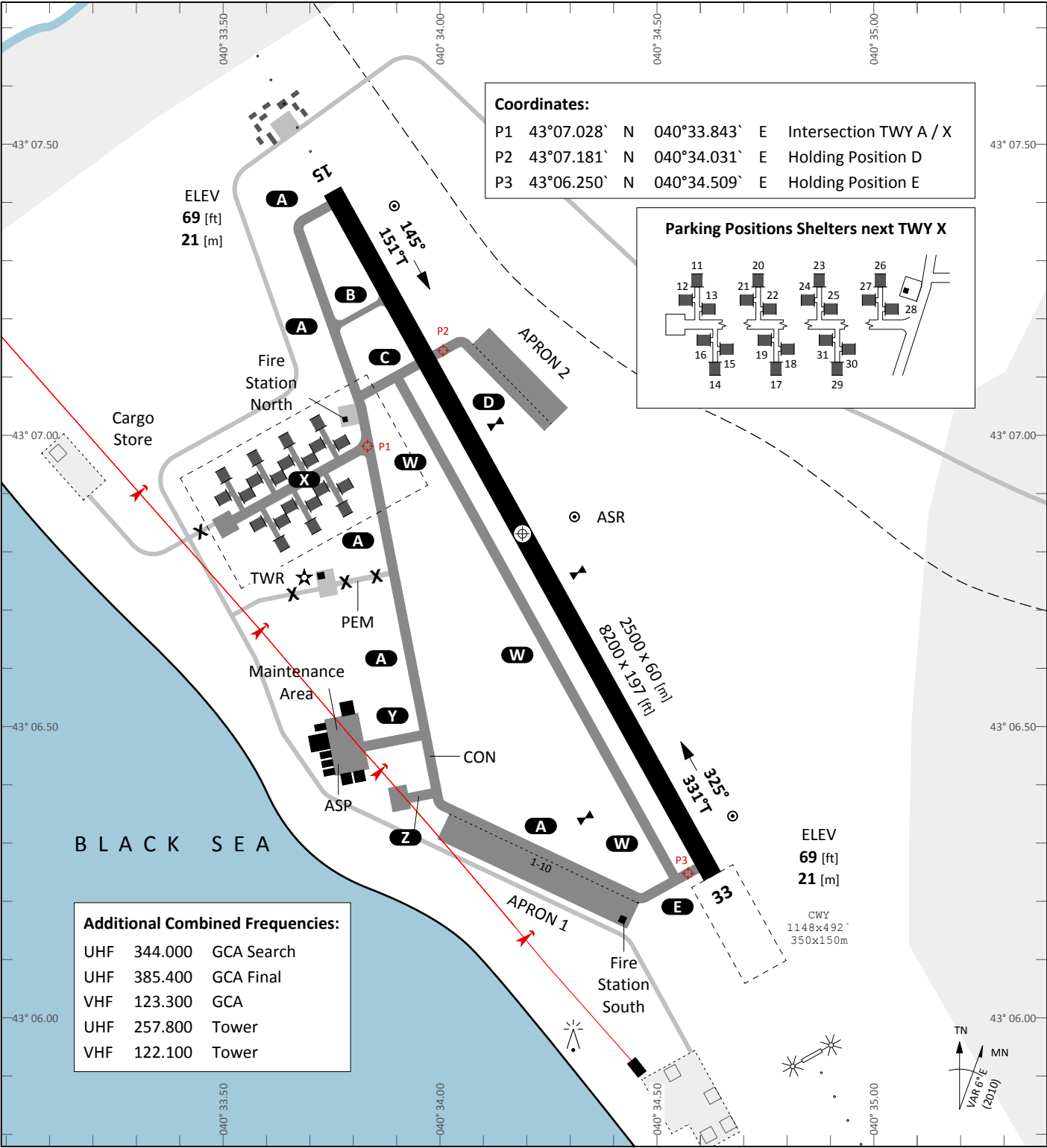
**Additional Combined Frequencies:**

UHF 344.000 GCA Search  
UHF 385.400 GCA Final  
VHF 123.300 GCA  
UHF 257.800 Tower  
VHF 122.100 Tower

	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
PAR	07 - 25	A B C D E	259 - 0.8 200 (200-0.8/1.6) GS 3°	41° 55.797` N	59 [ft]	0 200 400 600 [m]
SRA	07 - 25	A B C D E	409 - 1.2 350 (350-1.2/1.6)	041° 51.809` E	18 [m]	0 500 1000 1500 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
07	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	41°55.640`N 041°50.975`E	
25	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	7870 [ft] 2400 [m]	41°55.952`N 041°52.642`E	

Tower	Radar	Final - Precision	TACAN	ILS RWY 07		
133.000 MHz			67X "KBL"	111.50 MHz		

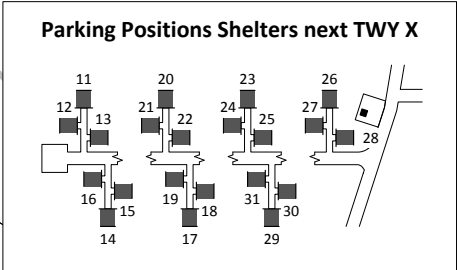


**Additional Combined Frequencies:**

UHF	344.000	GCA Search
UHF	385.400	GCA Final
VHF	123.300	GCA
UHF	257.800	Tower
VHF	122.100	Tower

**Coordinates:**

P1	43°07.028` N	040°33.843` E	Intersection TWY A / X
P2	43°07.181` N	040°34.031` E	Holding Position D
P3	43°06.250` N	040°34.509` E	Holding Position E



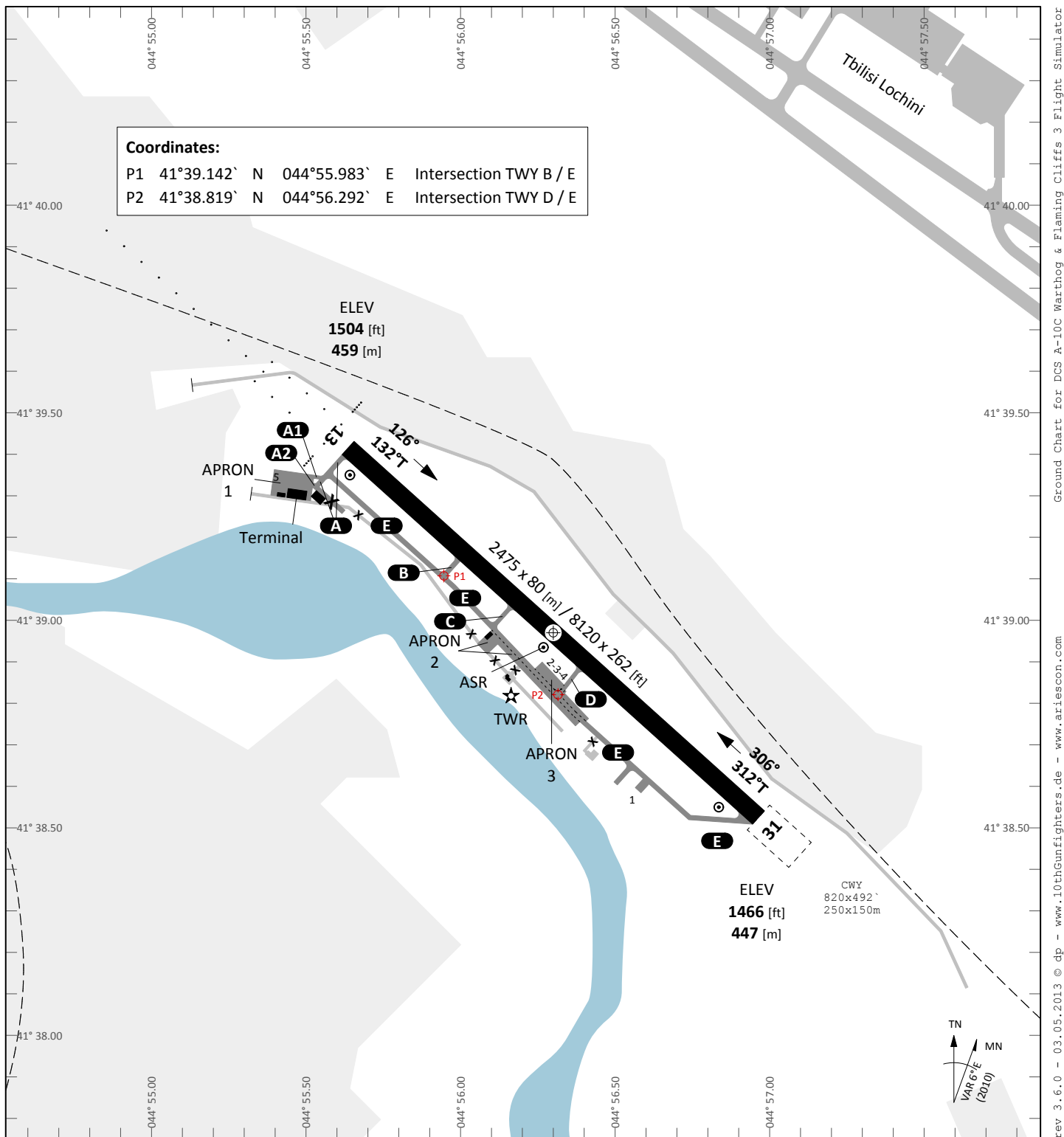
PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
	15 - 33	A B C D E	269 - 0.8 200 (200-0.8/1.6) GS 3°	43° 06.856` N	69 [ft]	0 200 400 600 [m]
SRA	15 - 33	A B C D E	419 - 1.2 350 (350-1.2/1.6)	040° 34.187` E	21 [m]	0 500 1000 1500 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
15	8200 [ft] 2500 [m]	9350 [ft] 2580 [m]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	43°07.468`N 040°33.817`E	
33	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	43°06.242`N 040°34.555`E	

Tower	Radar	Final - Precision	TACAN	ILS		
130.000 MHz						

## AERODROME CHART

## TBILISI - SOGANLUG (UG24)



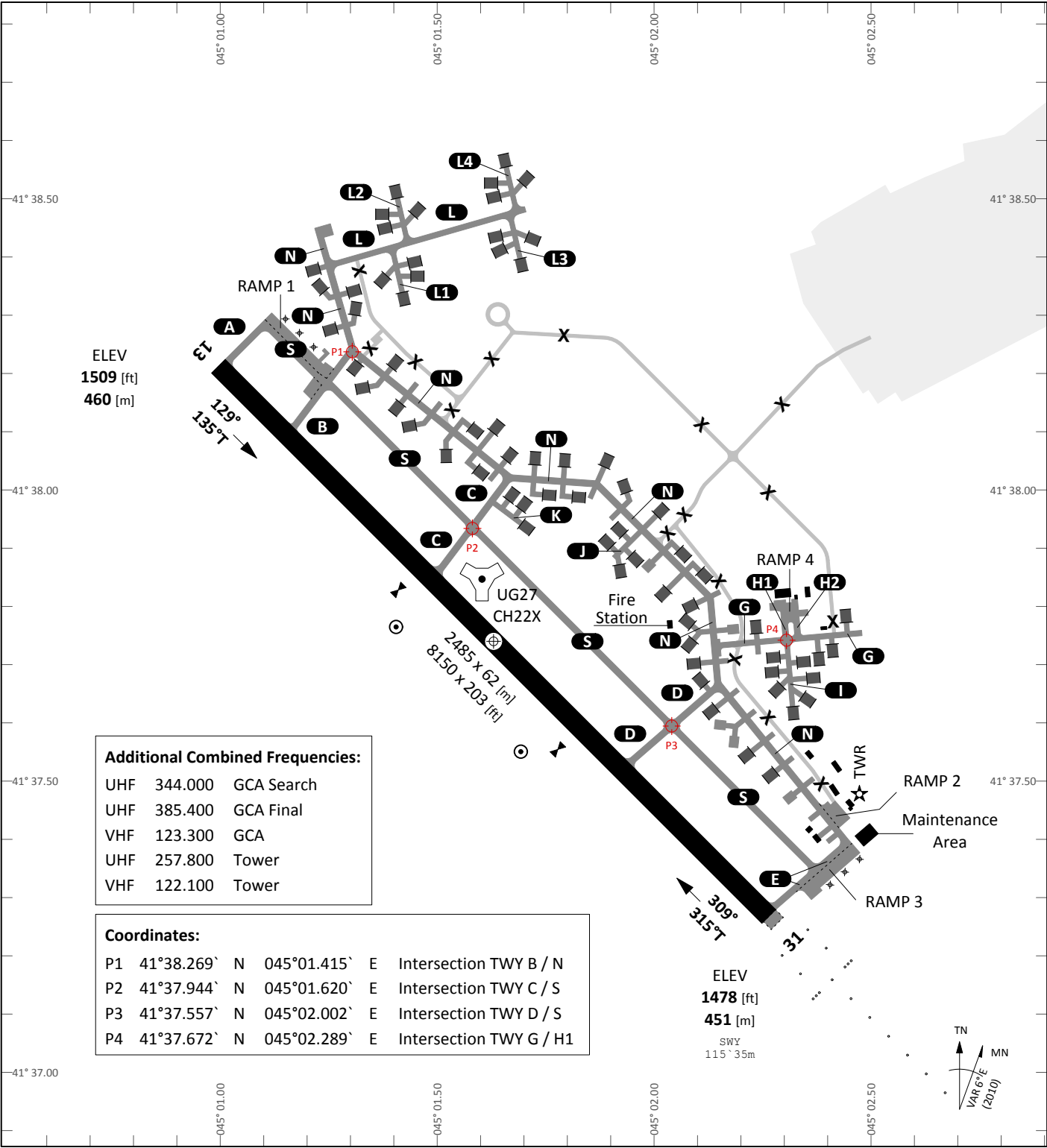
	RWY	CAT	MINIMA	ARP 41° 38.970' N 044° 56.304' E	ELEV 1473 [ft] 449 [m]	Scale 1:25'000 0 200 400 600 800 [m] 0 1000 2000 [ft]
PAR	13	A B C D E	1704 - 0.8 200 (200-0.8/1.6) GS 3°			
	31	A B C D E	1664 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	13	A B C D E	1854 - 1.2 350 (350-1.2/1.6)			
	31	A B C D E	1814 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
13	8120 [ft] 2475 [m]	8940 [ft] 2725 [m]	8120 [ft] 2475 [m]	8120 [ft] 2475 [m]	41°39.475'N 044°55.742'E	(E)
31	8120 [ft] 2475 [m]	8120 [ft] 2475 [m]	8120 [ft] 2475 [m]	8120 [ft] 2475 [m]	41°38.464'N 044°56.866'E	

Tower	Radar	Final - Precision	TACAN	ILS		
139.000 MHz						

## AERODROME CHART

## TBILISI - SOGANLUG (UG24)



**Additional Combined Frequencies:**

UHF	344.000	GCA Search
UHF	385.400	GCA Final
VHF	123.300	GCA
UHF	257.800	Tower
VHF	122.100	Tower

**Coordinates:**

P1	41°38.269' N	045°01.415' E	Intersection TWY B / N
P2	41°37.944' N	045°01.620' E	Intersection TWY C / S
P3	41°37.557' N	045°02.002' E	Intersection TWY D / S
P4	41°37.672' N	045°02.289' E	Intersection TWY G / H1

	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
PAR	13	A B C D E	1709 - 0.8 200 (200-0.8/1.6) GS 3°	41° 37.743' N 045° 01.632' E	1492 [ft] 455 [m]	0 200 400 600 [m] 0 500 1000 1500 2000 [ft]
	31	A B C D E	1678 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	13	A B C D E	1859 - 1.2 350 (350-1.2/1.6)			
	31	A B C D E	1828 - 1.2 350 (350-1.2/1.6)			

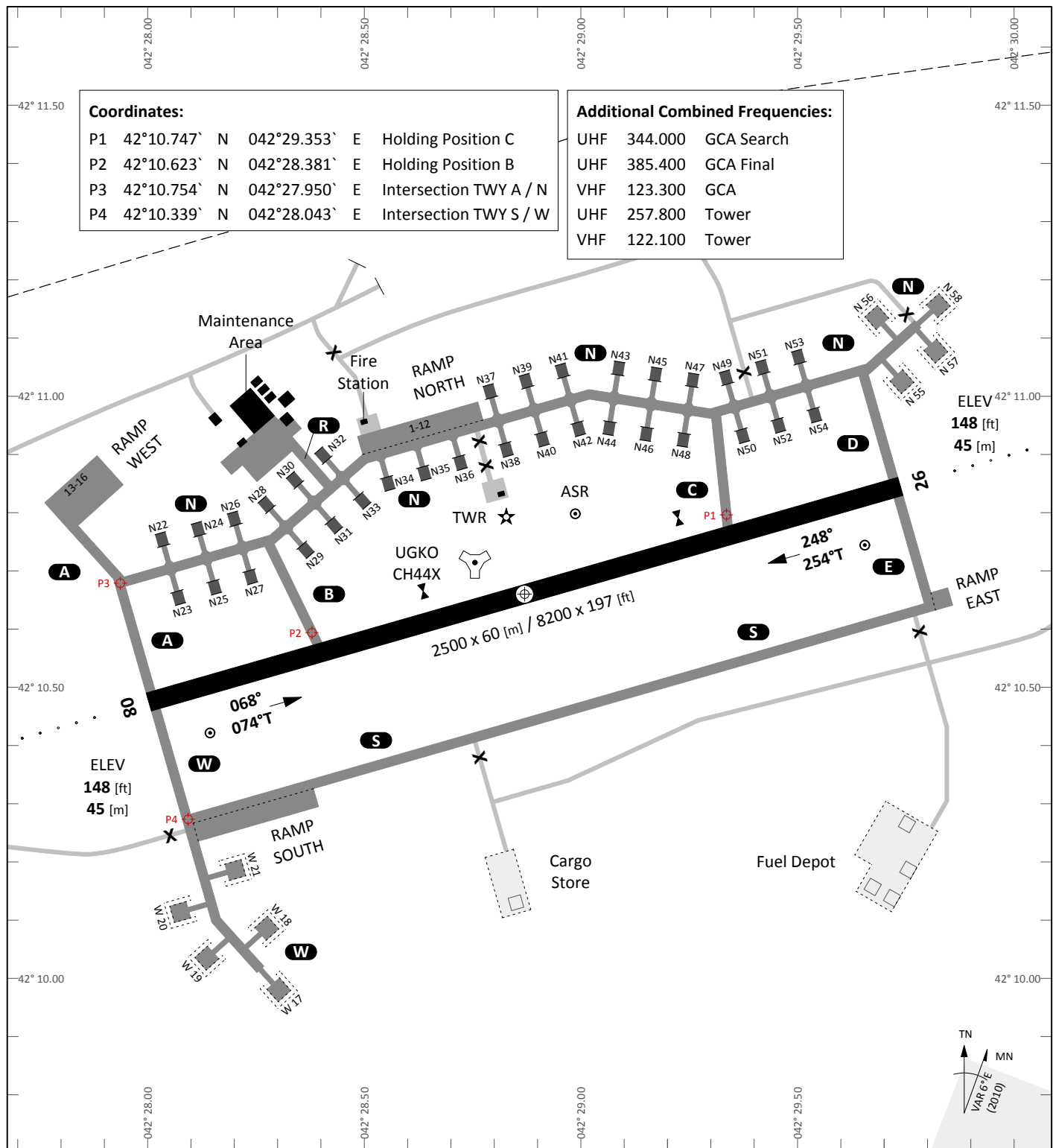
RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
13	8150 [ft] 2485 [m]	8150 [ft] 2485 [m]	8265 [ft] 2520 [m]	8150 [ft] 2485 [m]	41°38.275'N 045°01.108'E	
31	8150 [ft] 2485 [m]	8150 [ft] 2485 [m]	8150 [ft] 2485 [m]	8150 [ft] 2485 [m]	41°37.215'N 045°02.153'E	(E)

Tower	Radar	Final - Precision	TACAN	ILS RWY 13	ILS RWY 31	
140.000 MHz			22X "VAS"	108.75 MHz	108.75 MHz	



## VAZIANI (UG27)



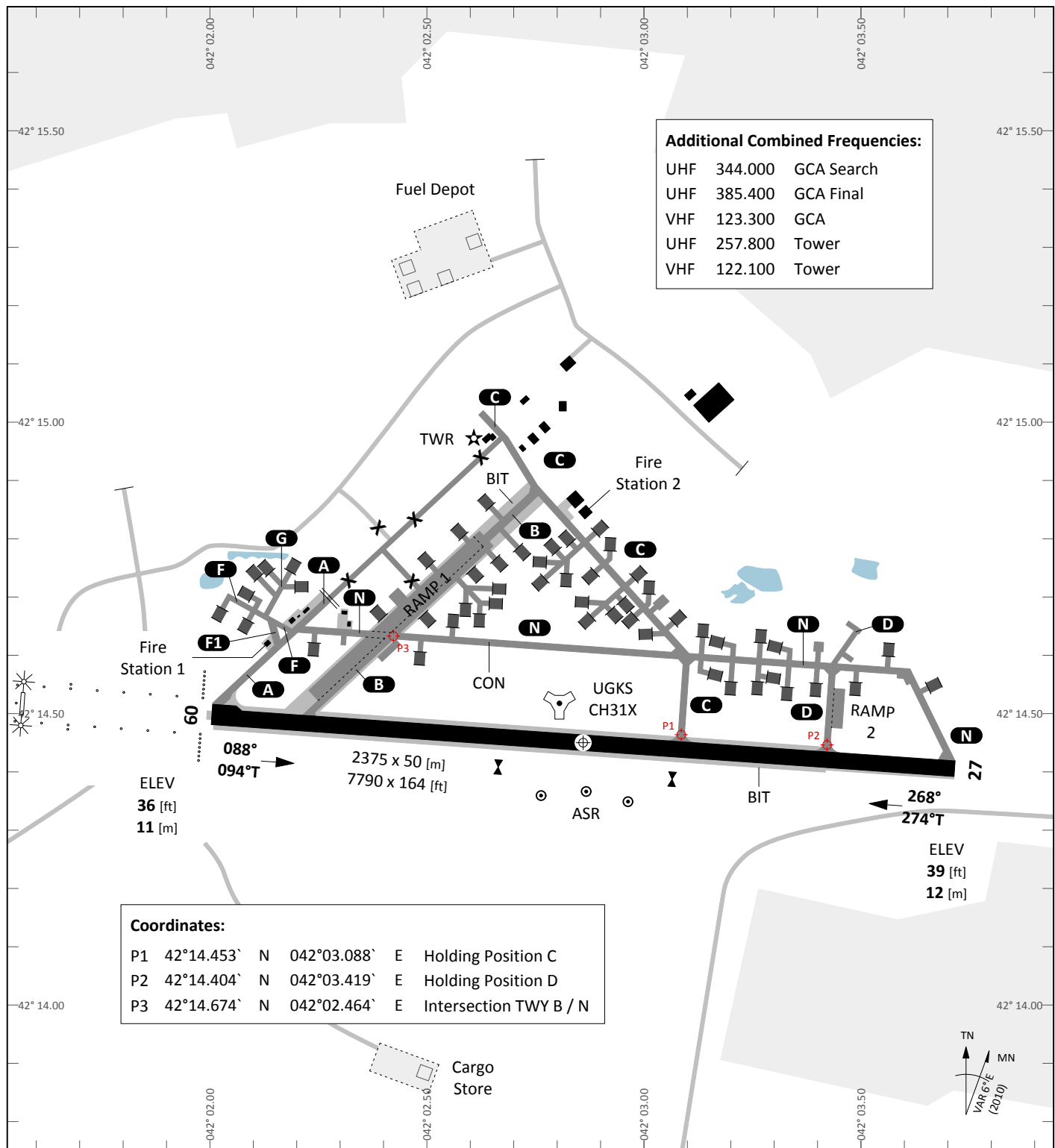
## KUTAI SI - KOPITNARI (UGKO)



	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
PAR	08 - 26	A B C D E	<b>348</b> - 0.8 200 (200-0.8/1.6) GS 3°	42° 10.657` N	<b>148</b> [ft]	
SRA	08 - 26	A B C D E	<b>498</b> - 1.2 350 (350-1.2/1.6)	042° 28.874` E	<b>45</b> [m]	

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
08	8200 [ft] 2500 [m]	8200 [ft] 2500 [ft]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	42°10.544`N 042°27.988`E	
26	8200 [ft] 2500 [m]	8200 [ft] 2500 [ft]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	42°10.768`N 042°29.759`E	

Tower	Radar	Final - Precision	TACAN	ILS RWY 08		
134.000 MHz			44X "KTS"	109.75 MHz		



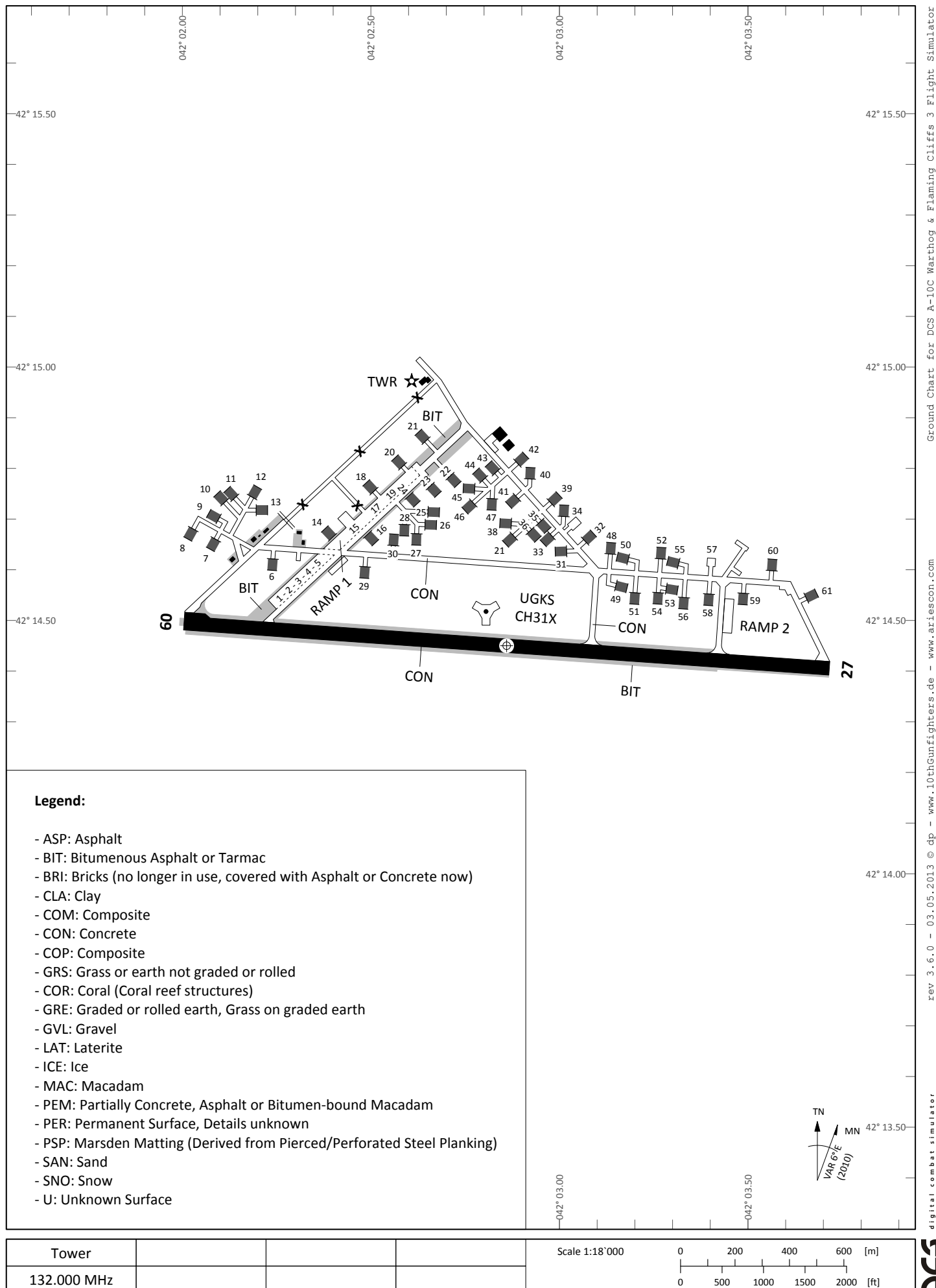
PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
SRA	09	A B C D E	236 - 0.8 200 (200-0.8/1.6) GS 3°	42° 14.454' N 042° 02.861' E	43 [ft] 13 [m]	0 200 400 600 [m] 0 500 1000 1500 2000 [ft]
	27	A B C D E	239 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	09	A B C D E	386 - 1.2 350 (350-1.2/1.6)	42° 14.454' N 042° 02.861' E	43 [ft] 13 [m]	0 500 1000 1500 2000 [ft]
	27	A B C D E	389 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
09	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	42°14.573'N 042°02.024'E	(E)
27	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	7790 [ft] 2375 [m]	42°14.336'N 042°03.695'E	

Tower	Radar	Final - Precision	TACAN	ILS RWY 09		
132.000 MHz			31X "TSK"	108.90 MHz		

## AIRCRAFT PARKING POSITIONS

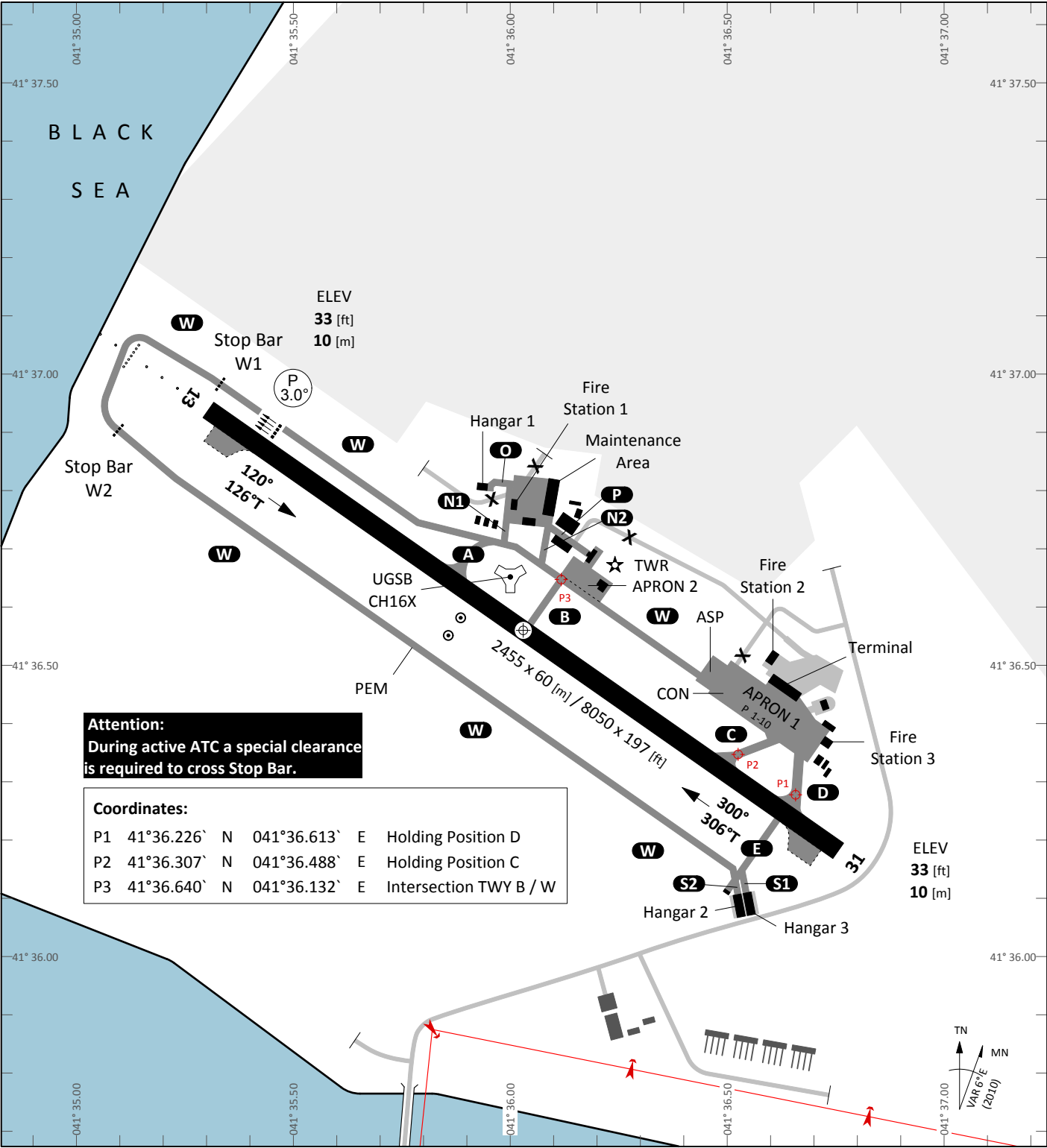
## SENAKI - KOLKHI (UGKS)



## AIRCRAFT PARKING POSITIONS

## SENAKI - KOLKHI (UGKS)

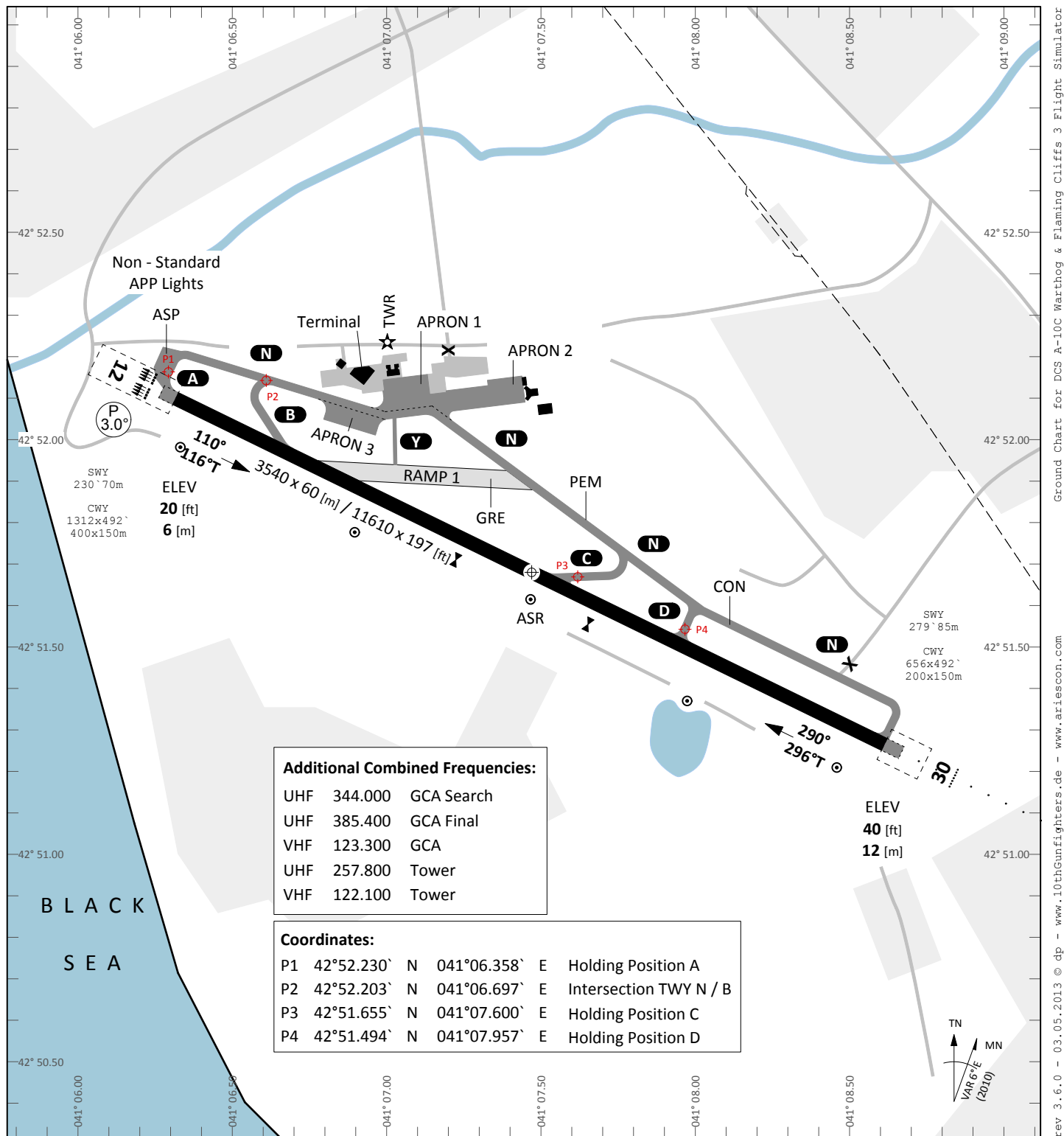




PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
13	13	A B C D E	233 - 0.8 200 (200-0.8/1.6) GS 3°	41° 36.562' N	33 [ft]	0 200 400 600 [m]
SRA	13 - 31	A B C D E	383 - 1.2 350 (350-1.2/1.6)	041° 36.034' E	10 [m]	0 500 1000 1500 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
13	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	41°36.995'N 041°35.378'E	(X)
31	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	8050 [ft] 2455 [m]	41°36.127'N 041°36.694'E	

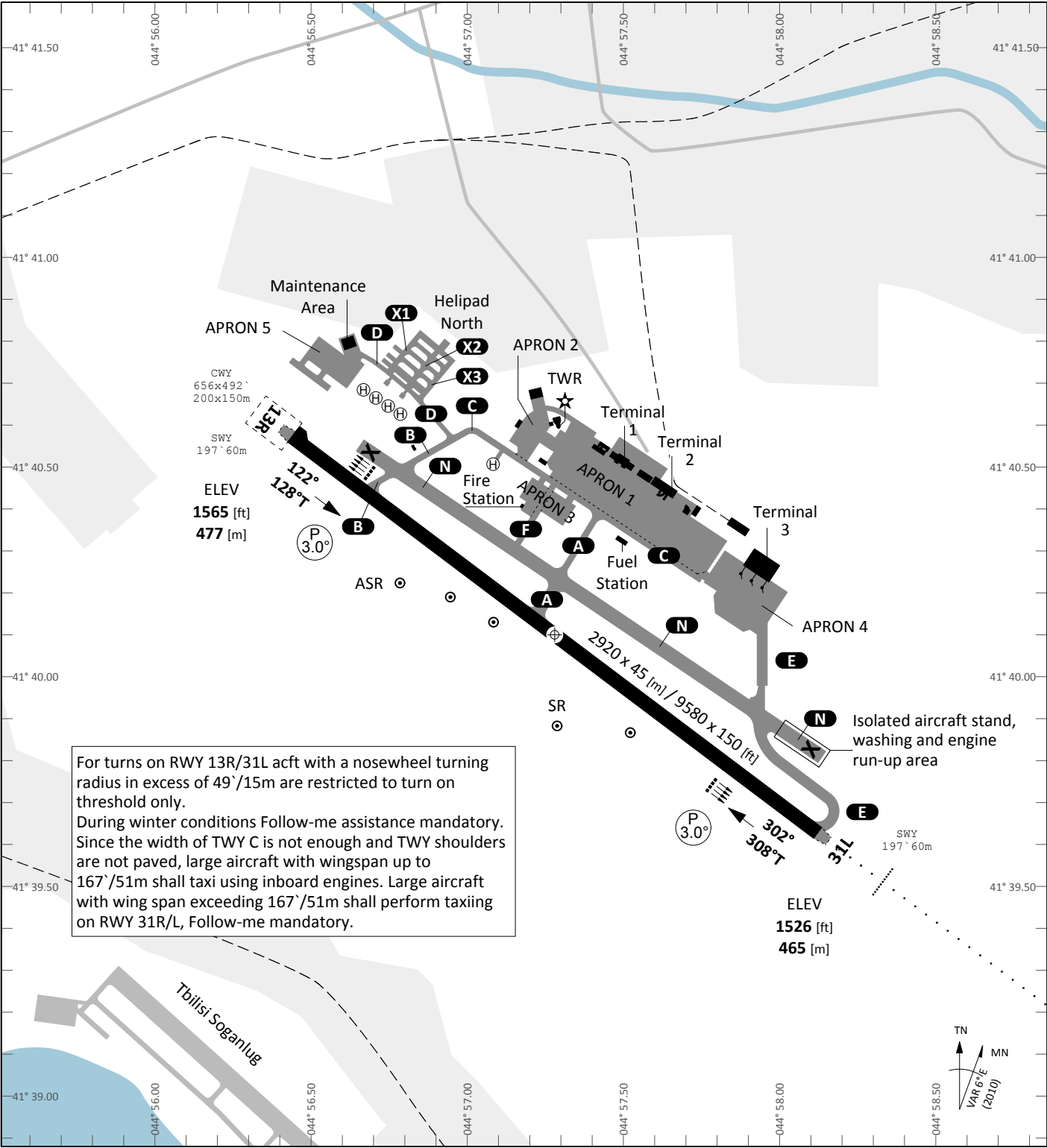
Tower	Radar	Final - Precision	TACAN	ILS RWY 13		
131.000 MHz			16X "BTM"	110.30 MHz		



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
	12	A B C D E	220 - 0.8 200 (200-0.8/1.6) GS 3°	42° 51.677' N	30 [ft]	0 200 400 600 800 [m]
	30	A B C D E	240 - 0.8 200 (200-0.8/1.6) GS 3°	041° 07.474' E	9 [m]	0 1000 2000 [ft]
SRA	12	A B C D E	370 - 1.2 350 (350-1.2/1.6)			
	30	A B C D E	390 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
12	11610 [ft] 3540 [m]	12270 [ft] 3740 [m]	11890 [ft] 3625 [m]	11610 [ft] 3540 [m]	42°52.179'N 041°06.383'E	
30	11610 [ft] 3540 [m]	12920 [ft] 3940 [m]	11840 [ft] 3610 [m]	11610 [ft] 3540 [m]	42°51.172'N 041°08.570'E	(X)

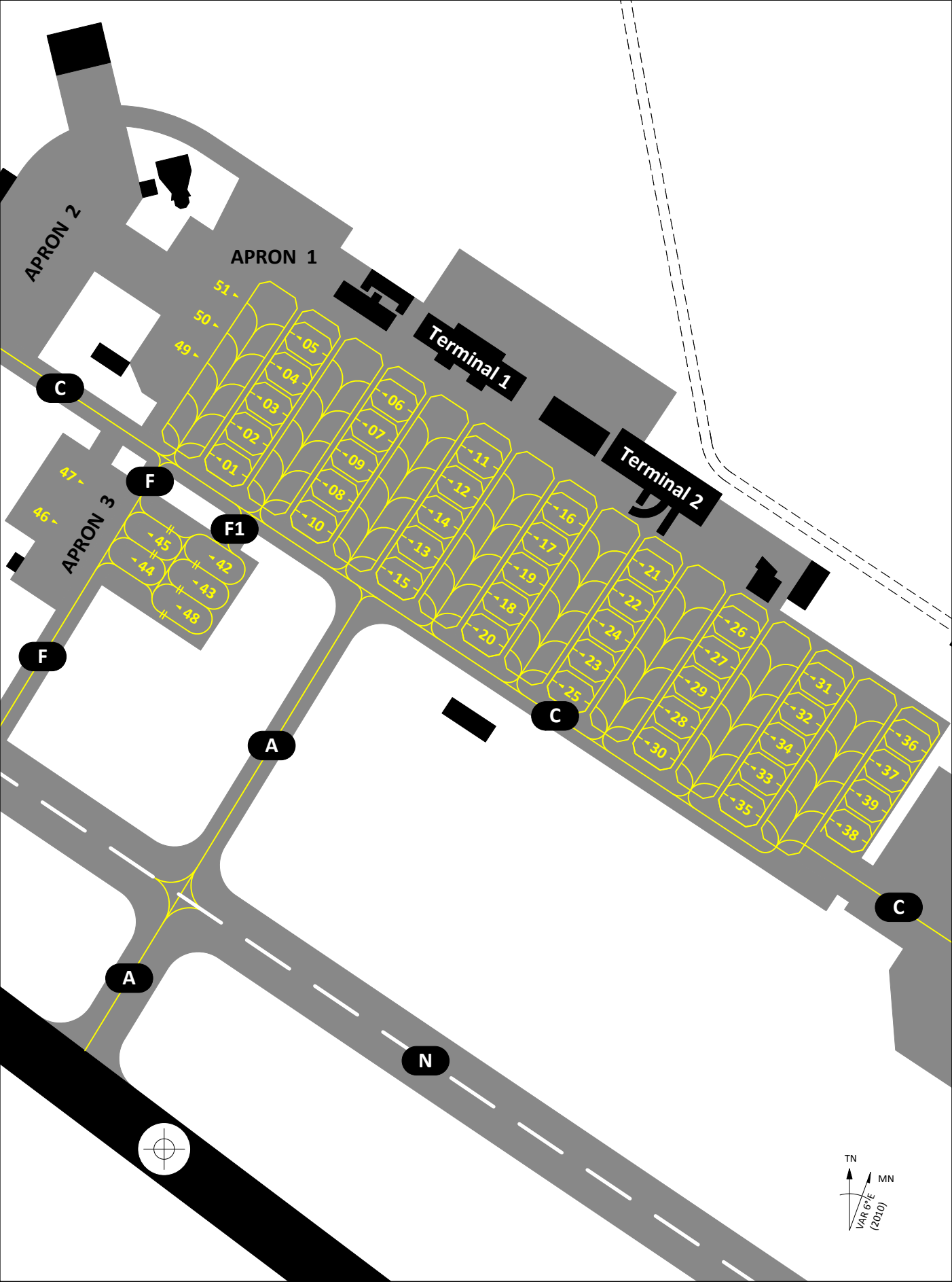
Tower	Radar	Final - Precision	TACAN	ILS		
129.000 MHz						



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
SRA	13R	A B C D E	1765 - 0.8 200 (200-0.8/1.6) GS 3°	41° 40.095` N 044° 57.283` E	1539 [ft] 469 [m]	<div><div></div><div>0200400600800</div><div>[m]</div></div> <div><div></div><div>010002000</div><div>[ft]</div></div>
	31L	A B C D E	1725 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	13R	A B C D E	1915 - 1.2 350 (350-1.2/1.6)			
	31L	A B C D E	1875 - 1.2 350 (350-1.2/1.6)			

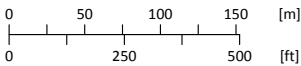
RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
13R	9580 [ft] 2920 [m]	9580 [ft] 2920 [m]	9775 [ft] 2980 [m]	9580 [ft] 2920 [m]	41°40.654`N 044°56.565`E	
31L	9580 [ft] 2920 [m]	10230 [ft] 3120 [m]	9775 [ft] 2980 [m]	9580 [ft] 2920 [m]	41°39.537`N 044°58.003`E	(X)

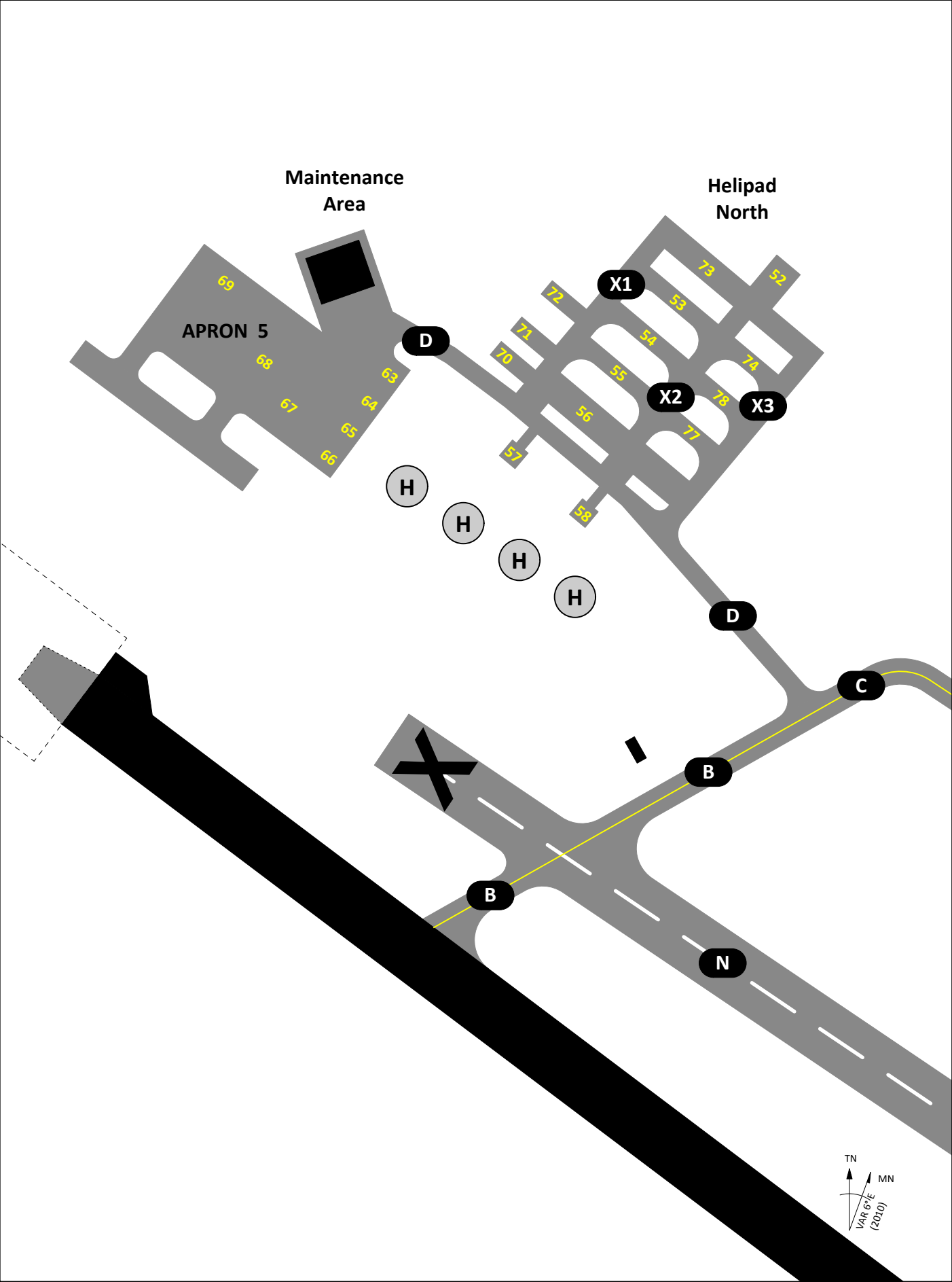
Tower	Radar	Final - Precision	TACAN	ILS RWY 13R	ILS RWY 31L	
138.000 MHz				110.30 MHz	108.90 MHz	



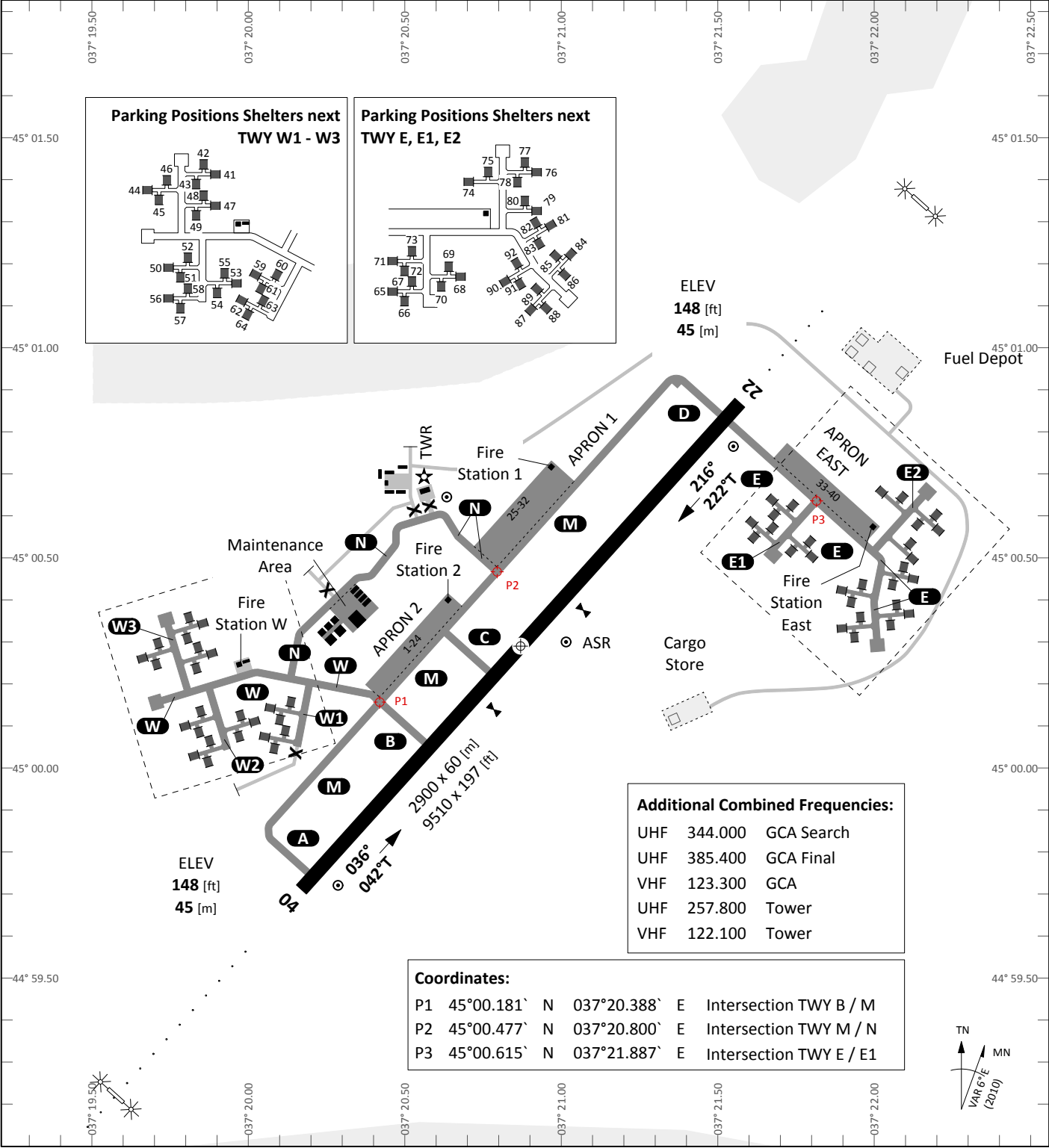
Tower			
138.000 MHz			

Scale 1:5'000





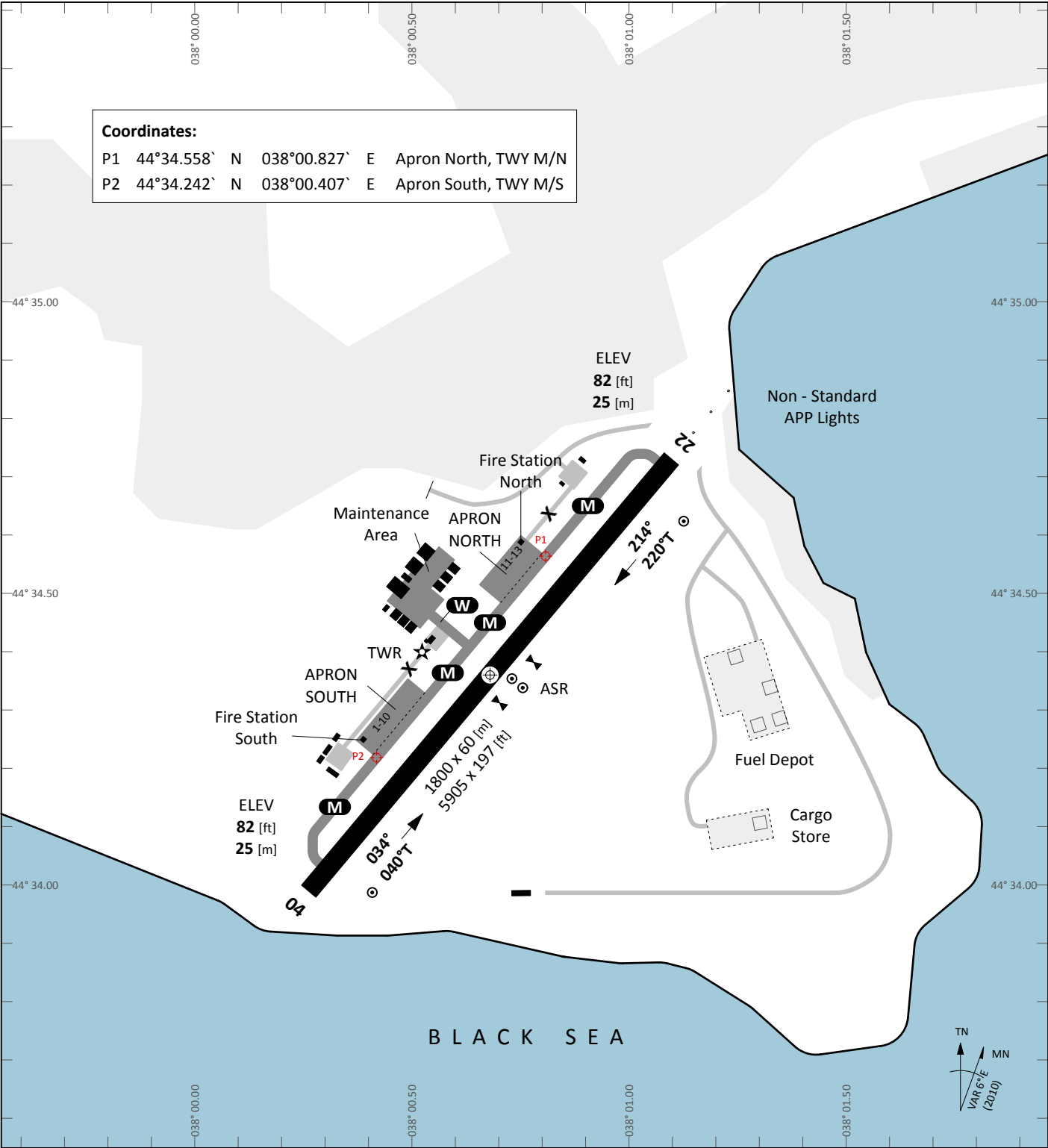
Tower				Scale 1:5'000	0	50	100	150	[m]
138.000 MHz					0	250	500		[ft]



	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
	04 - 22	A B C D E	348 - 0.8 200 (200-0.8/1.6) GS 3°			
PAR	04 - 22	A B C D E	348 - 0.8 200 (200-0.8/1.6) GS 3°	45° 00.298` N	148 [ft]	<div><div></div><div>0200400600800</div><div>[m]</div><div>010002000</div><div>[ft]</div></div>
SRA	04 - 22	A B C D E	498 - 1.2 350 (350-1.2/1.6)	037° 20.870` E	45 [m]	

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
04	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	44°59.741`N 037°20.099`E	
22	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	9510 [ft] 2900 [m]	45°00.853`N 037°21.642`E	

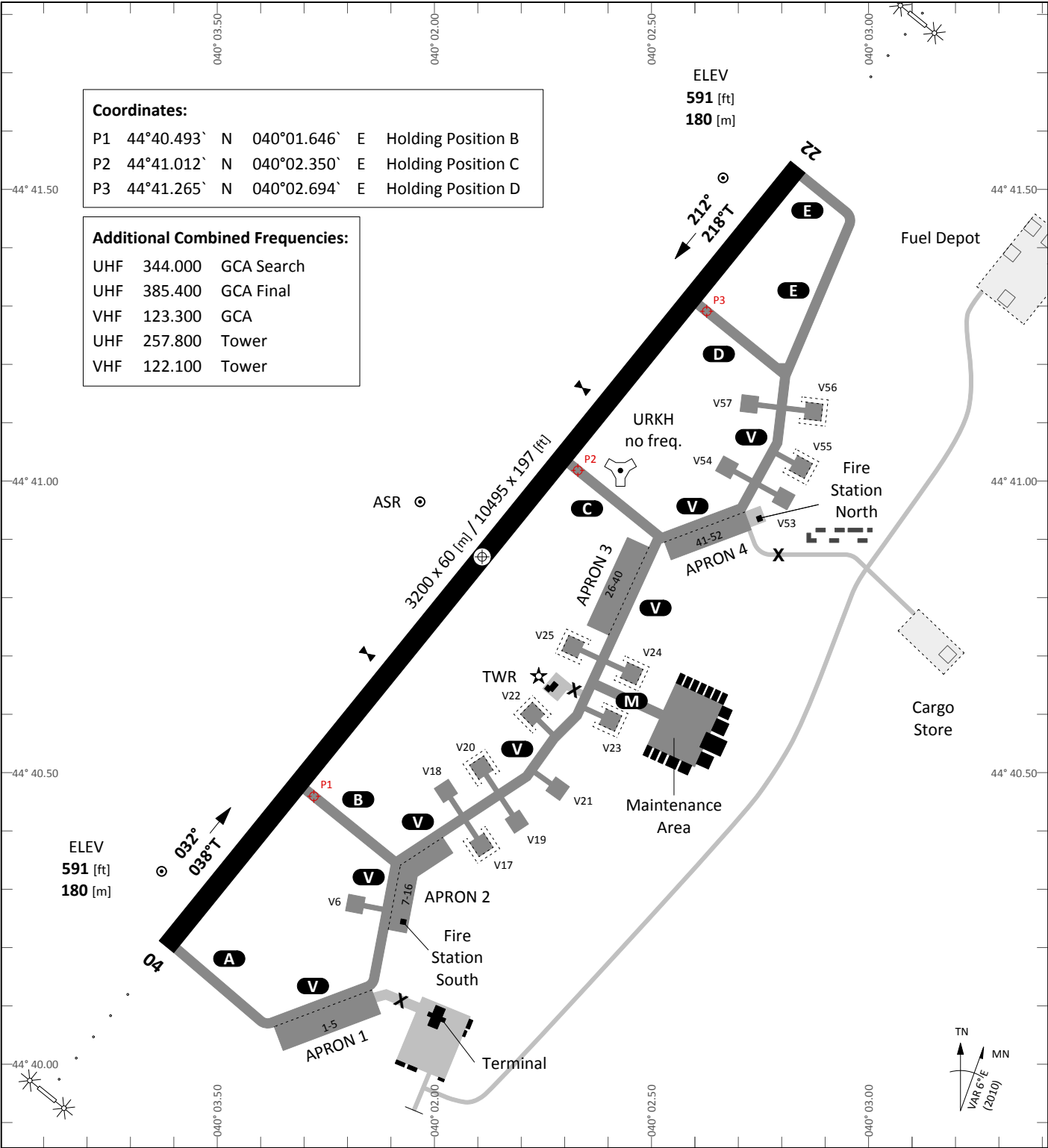
Tower	Radar	Final - Precision	TACAN	ILS		
121.000 MHz						



	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
	04	A B C D E	282 - 0.8 200 (200-0.8/1.6) GS 3°			
PAR	04	A B C D E	282 - 0.8 200 (200-0.8/1.6) GS 3°	44° 34.364` N	82 [ft]	0 200 400 600 [m] 0 500 1000 1500 2000 [ft]
SRA	04 - 22	A B C D E	432 - 1.2 350 (350-1.2/1.6)	038° 00.684` E	25 [m]	

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
04	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	44°34.014`N 038°00.219`E	
22	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	5905 [ft] 1800 [m]	44°34.715`N 038°01.149`E	

Tower	Radar	Final - Precision	TACAN	ILS		
126.000 MHz						

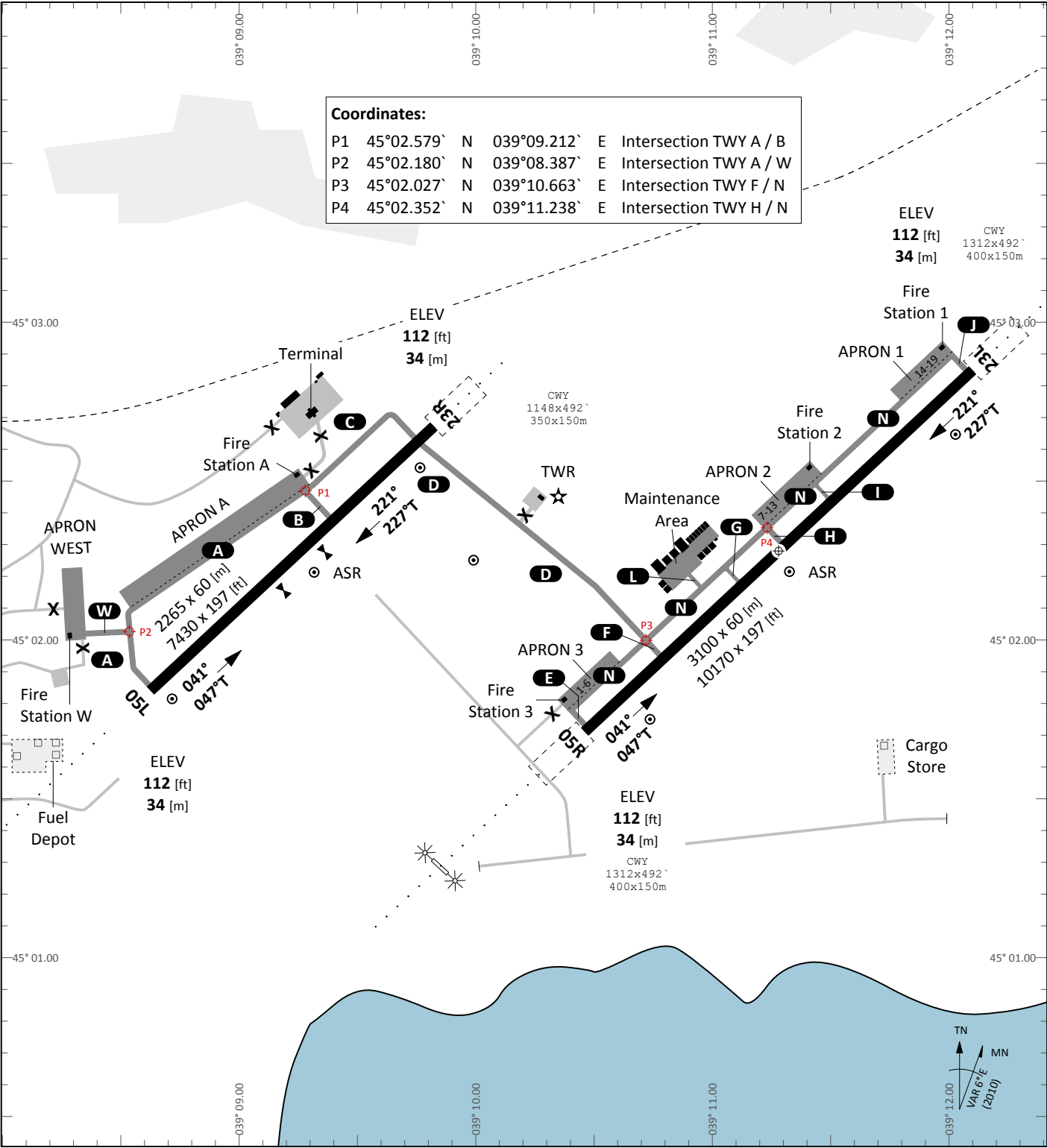


RWY	CAT	MINIMA		ARP	ELEV	Scale 1:18'000
		04 - 22	A B C D E			
PAR		04 - 22	A B C D E	791 - 0.8 200 (200-0.8/1.6) GS 3°	591 [ft] 180 [m]	<div><div></div><div>0200400600</div><div>0500100015002000</div><div>[m]</div><div>[ft]</div></div>
SRA		04 - 22	A B C D E	941 - 1.2 350 (350-1.2/1.6)	591 [ft] 180 [m]	

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
04	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	44°40.257'N 040°01.276'E	
22	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	10495 [ft] 3200 [m]	44°41.494'N 040°02.946'E	

Tower	Radar	Final - Precision	TACAN	ILS		
125.000 MHz						



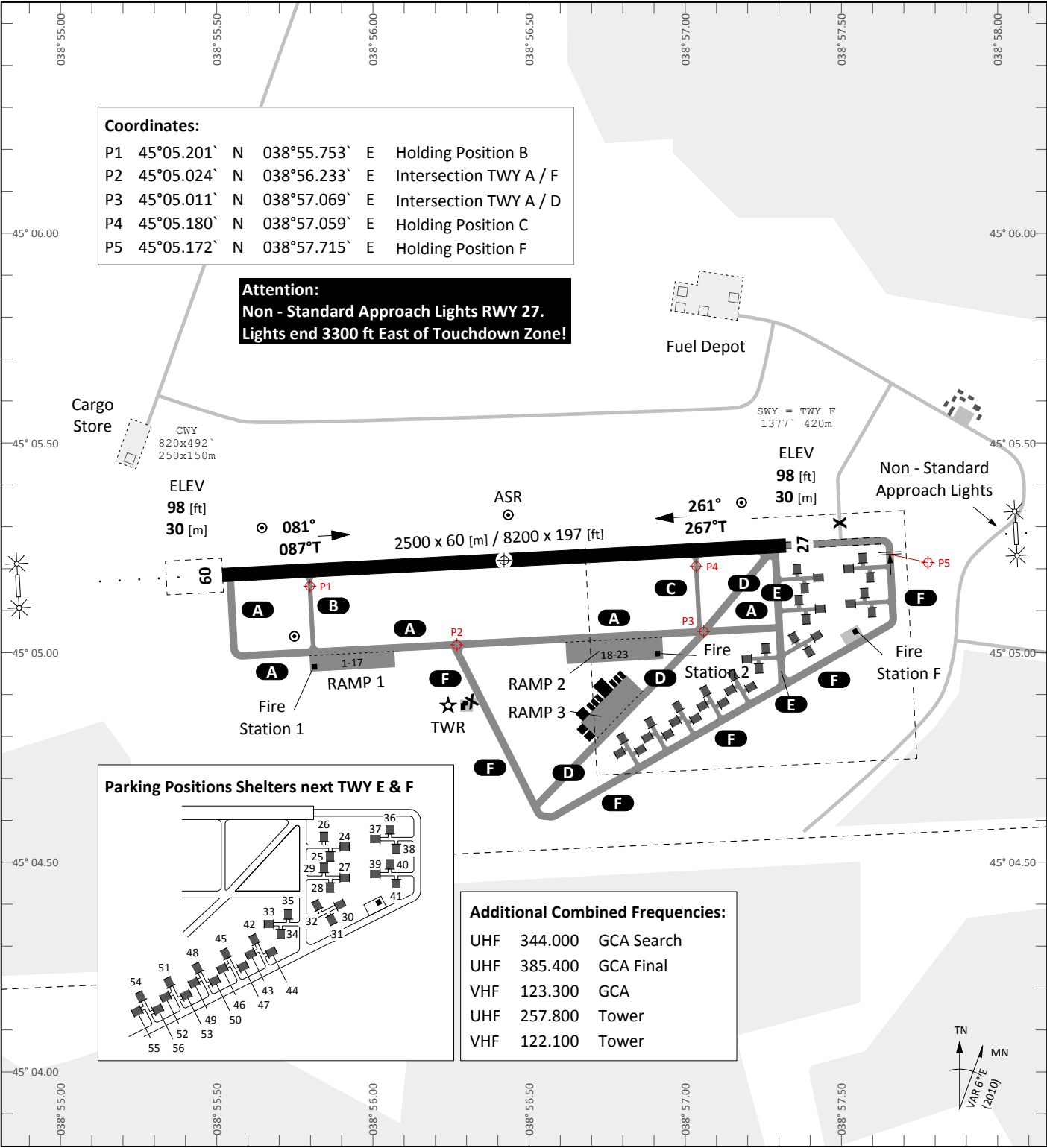


PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:33'000
SRA	05L - 23R	A B C D E	312 - 0.8 200 (200-0.8/1.6) GS 3°	45° 02.276` N 039° 11.282` E	112 [ft] 34 [m]	<div><div></div><div>02004006008001000</div><div>0100020003000</div><div>[m][ft]</div></div>
	05R - 23L	A B C D E	312 - 0.8 200 (200-0.8/1.6) GS 3°			
	05L - 23R	A B C D E	462 - 1.2 350 (350-1.2/1.6)			
	05R - 23L	A B C D E	462 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
05L	7430 [ft] 2265 [m]	8580 [ft] 2615 [m]	7430 [ft] 2265 [m]	7430 [ft] 2265 [m]	45°01.991`N 039°08.464`E	
23R	7430 [ft] 2265 [m]	7430 [ft] 2265 [m]	7430 [ft] 2265 [m]	7430 [ft] 2265 [m]	45°02.749`N 039°09.800`E	
05R	10170 [ft] 3100 [m]	11480 [ft] 3500 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	45°01.757`N 039°10.367`E	
23L	10170 [ft] 3100 [m]	11480 [ft] 3500 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	45°02.794`N 039°12.198`E	

Tower	Radar	Final - Precision	TACAN	ILS		
128.000 MHz						

Ground Chart for DCS A-10C Warthog & Flaming Cliffs 3 Flight Simulator  
rev 3.6.0 - 03.05.2013 © dp - www.10thGunfighters.de - www.ariescon.com

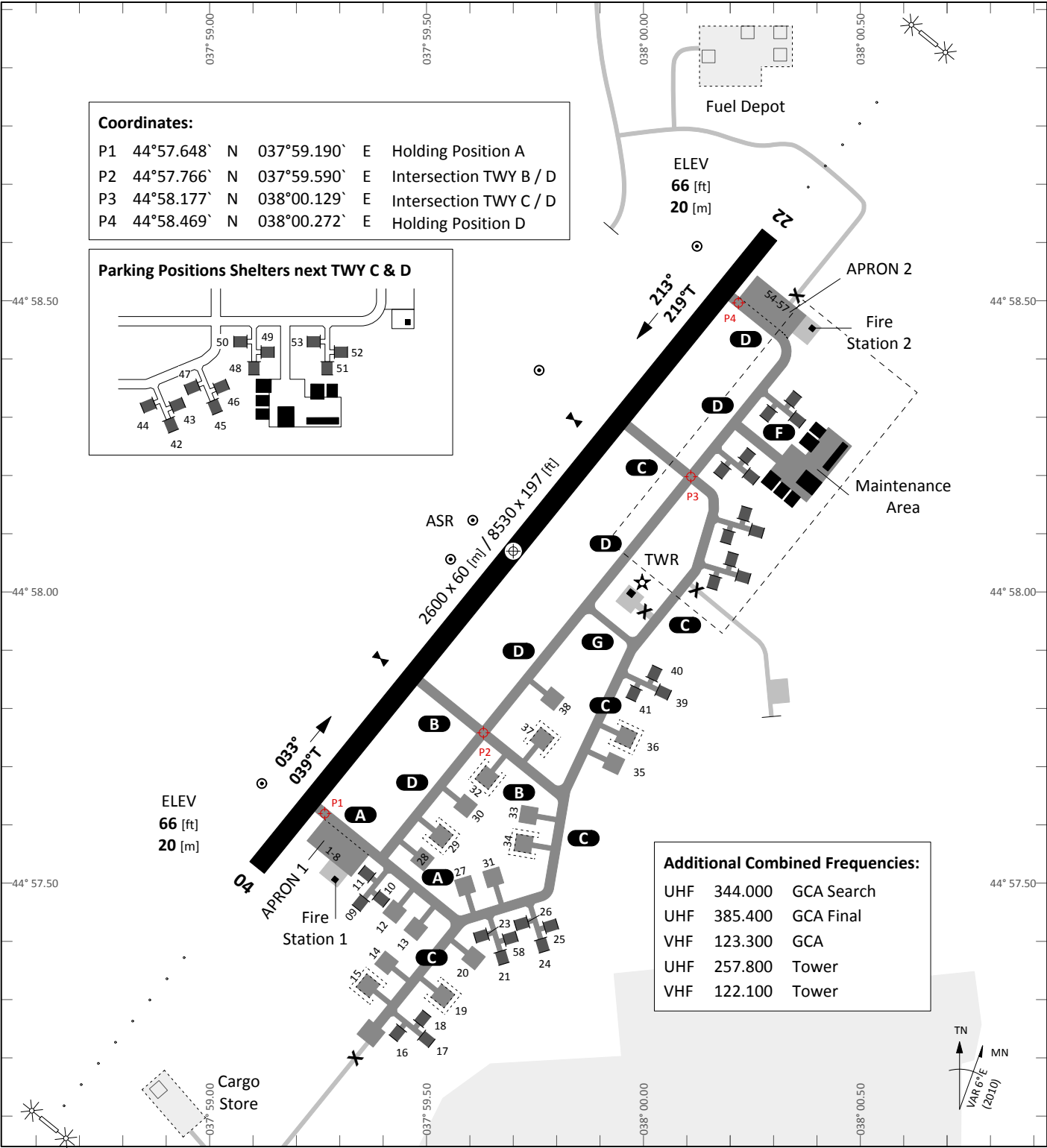


RWY		CAT	MINIMA	ARP	ELEV	Scale 1:25'000
PAR	09 - 27	A B C D E	298 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	09 - 27	A B C D E	448 - 1.2 350 (350-1.2/1.6)	45° 05.216` N 038° 56.415` E	98 [ft] 30 [m]	0 200 400 600 800 [m] 0 1000 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
09	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	9580 [ft] 2920 [m]	8200 [ft] 2500 [m]	45°05.231`N 038°55.467`E	
27	8200 [ft] 2500 [m]	9020 [ft] 2750 [m]	8200 [ft] 2500 [m]	8200 [ft] 2500 [m]	45°05.202`N 038°57.362`E	
27 (via TWY F)	9580 [ft] 2920 [m]	10400 [ft] 3170 [m]	9580 [ft] 2920 [m]	8200 [ft] 2500 [m]		

Tower	Radar	Final - Precision	TACAN	ILS		
122.000 MHz						

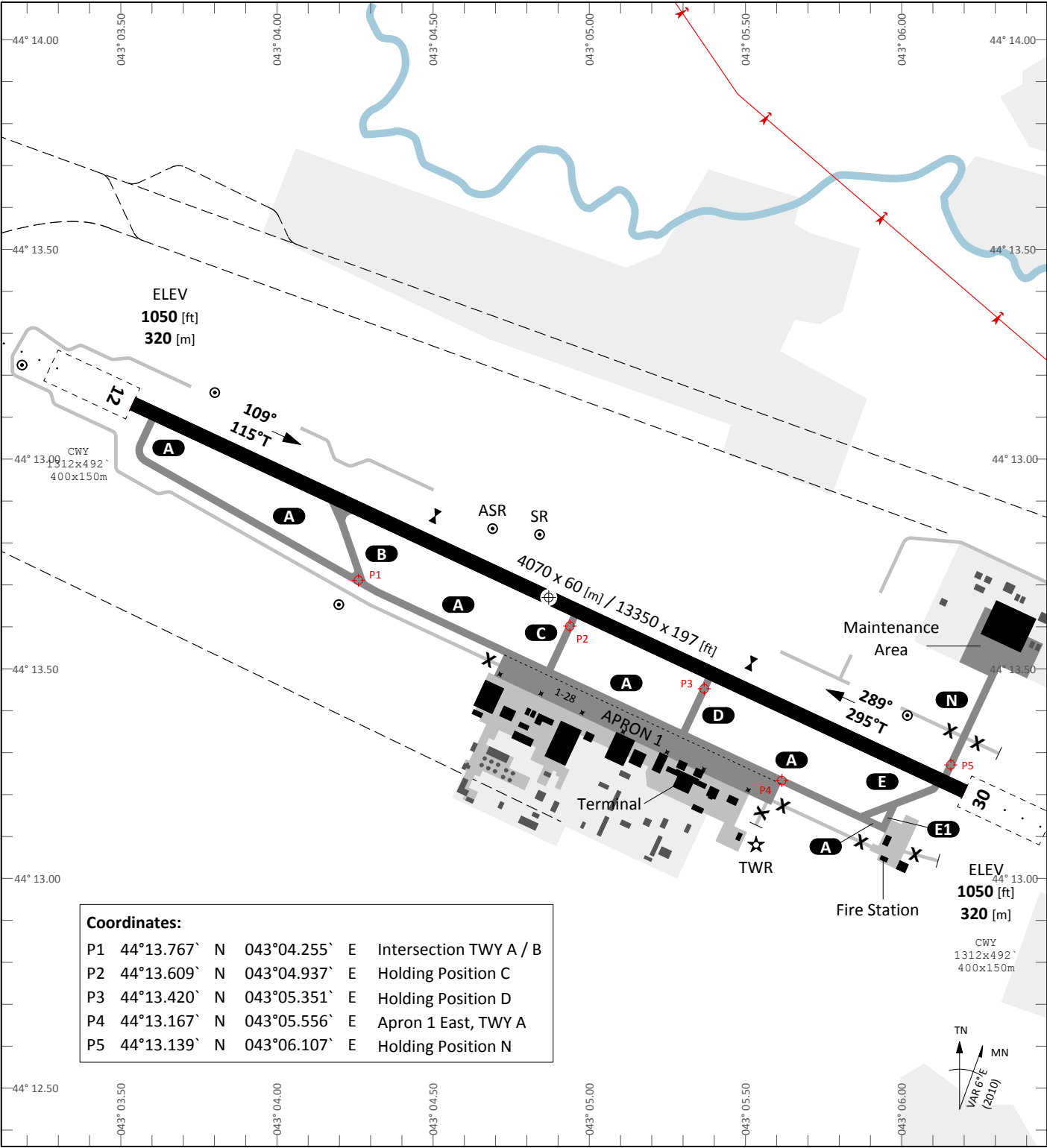




PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
	04 - 22	A B C D E	266 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	04 - 22	A B C D E	416 - 1.2 350 (350-1.2/1.6)	44° 58.073` N 037° 59.697` E	66 [ft] 20 [m]	0 200 400 600 [m] 0 500 1000 1500 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
04	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	44°57.562`N 037°59.026`E	
22	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	8530 [ft] 2600 [m]	44°58.584`N 038°00.369`E	

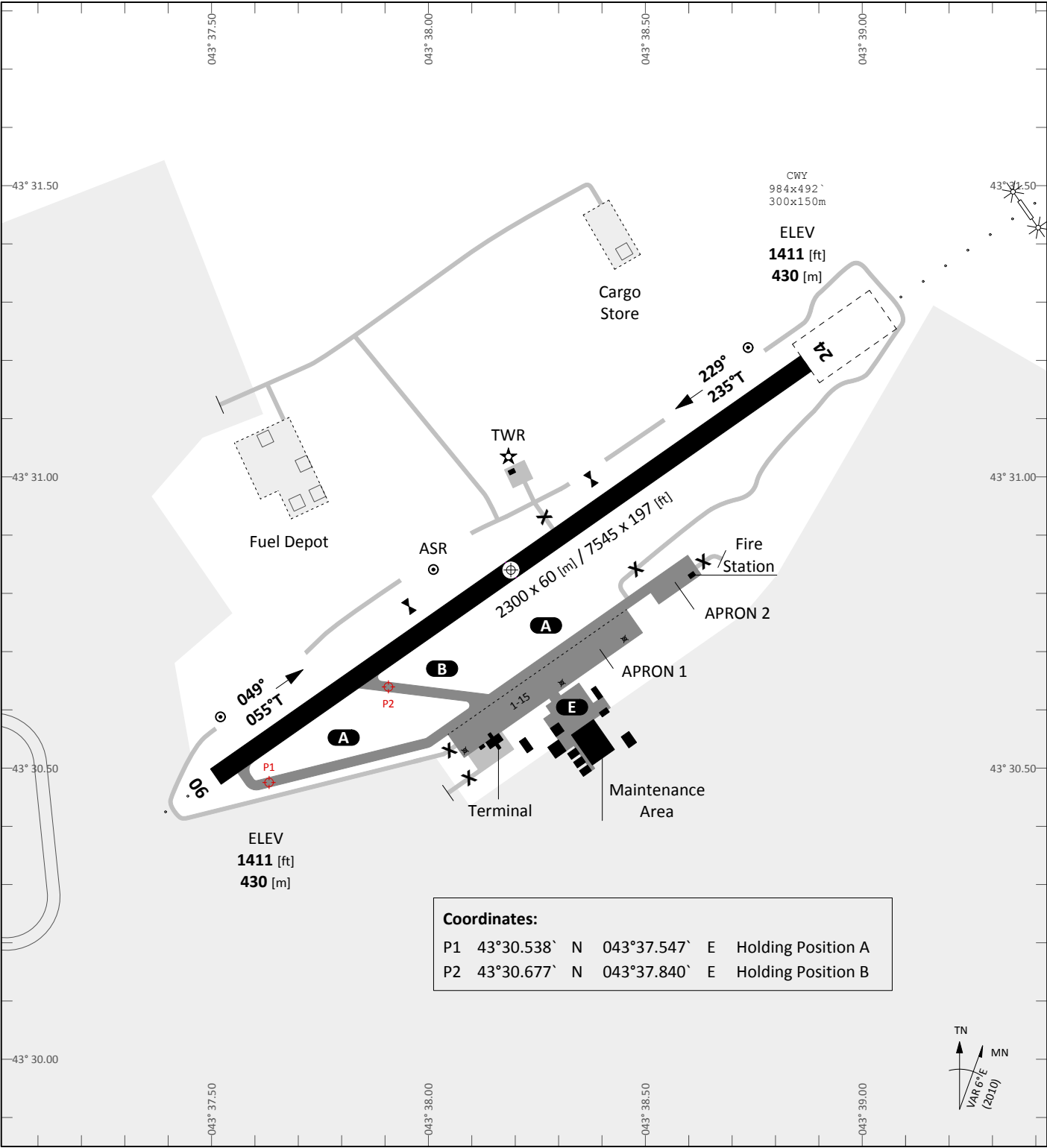
Tower	Radar	Final - Precision	TACAN	ILS		
124.000 MHz						



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
	12 - 30	A B C D E	1250 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	12 - 30	A B C D E	1400 - 1.2 350 (350-1.2/1.6)	44° 13.672` N 043° 04.870` E	1050 [ft] 320 [m]	0 200 400 600 800 [m] 0 1000 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
12	13350 [ft] 4070 [m]	14660 [ft] 4470 [m]	13350 [ft] 4070 [m]	13350 [ft] 4070 [m]	44°14.254`N 043°03.591`E	
30	13350 [ft] 4070 [m]	14660 [ft] 4470 [m]	13350 [ft] 4070 [m]	13350 [ft] 4070 [m]	44°13.089`N 043°06.148`E	

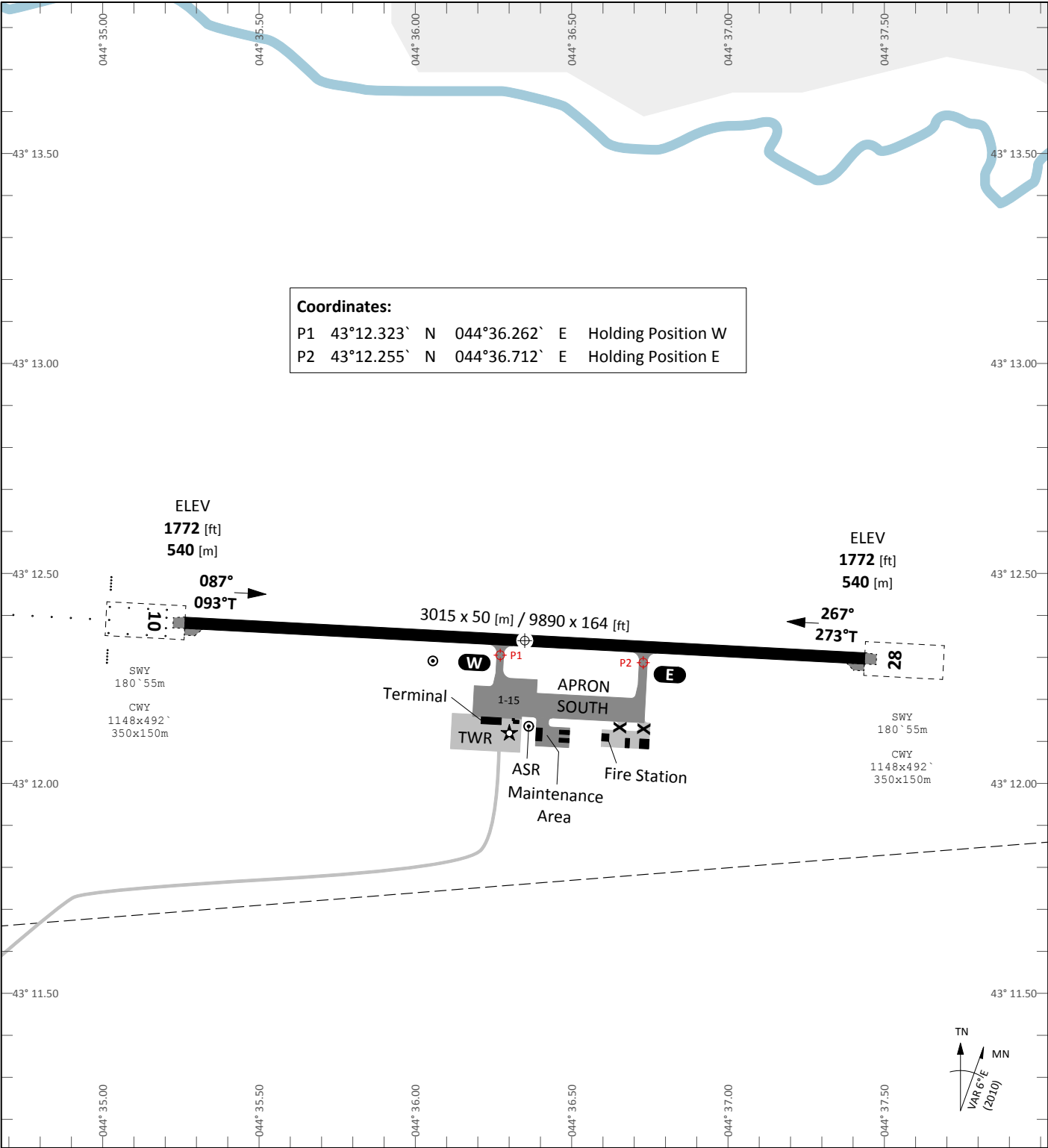
Tower	Radar	Final - Precision	TACAN	ILS RWY 12	ILS RWY 30	
135.000 MHz				111.70 MHz	109.30 MHz	



	RWY	CAT	MINIMA	ARP 43° 30.842' N 043° 38.193' E	ELEV 1411 [ft] 430 [m]	Scale 1:18'000 0 200 400 600 [m] 0 500 1000 1500 2000 [ft]
	PAR	06 - 24	A B C D E 1610 - 0.8 200 (200-0.8/1.6) GS 3°			
	SRA	06 - 24	A B C D E 1760 - 1.2 350 (350-1.2/1.6)			

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
06	7545 [ft] 2300 [m]	8530 [ft] 2600 [m]	7545 [ft] 2300 [m]	7545 [ft] 2300 [m]	43°30.562'N 043°37.443'E	
24	7545 [ft] 2300 [m]	7545 [ft] 2300 [m]	7545 [ft] 2300 [m]	7545 [ft] 2300 [m]	43°31.122'N 043°38.943'E	

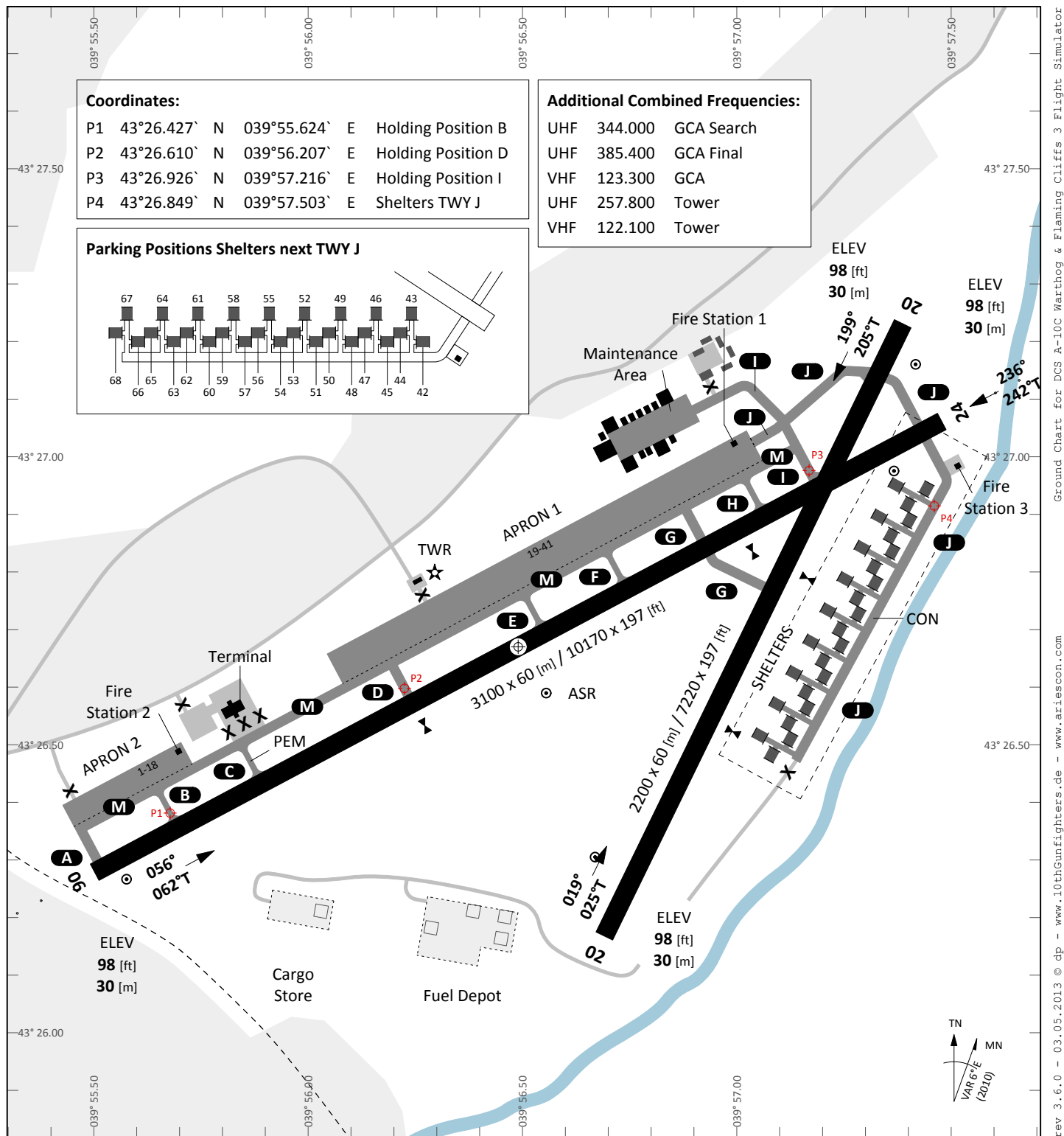
Tower	Radar	Final - Precision	TACAN	ILS RWY 24		
136.000 MHz				110.50 MHz		



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
	10 - 28	A B C D E	1971 - 0.8 200 (200-0.8/1.6) GS 3°			
SRA	10 - 28	A B C D E	2121 - 1.2 350 (350-1.2/1.6)	43° 12.342` N 044° 36.346` E	1772 [ft] 540 [m]	0 200 400 600 800 [m] 0 1000 2000 [ft]

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
10	9890 [ft] 3015 [m]	11040 [ft] 3365 [m]	10070 [ft] 3070 [m]	9890 [ft] 3015 [m]	43°12.501`N 044°35.275`E	(E)
28	9890 [ft] 3015 [m]	11040 [ft] 3365 [m]	10070 [ft] 3070 [m]	9890 [ft] 3015 [m]	43°12.182`N 044°37.416`E	

Tower	Radar	Final - Precision	TACAN	ILS RWY 10		
141.000 MHz				110.50 MHz		



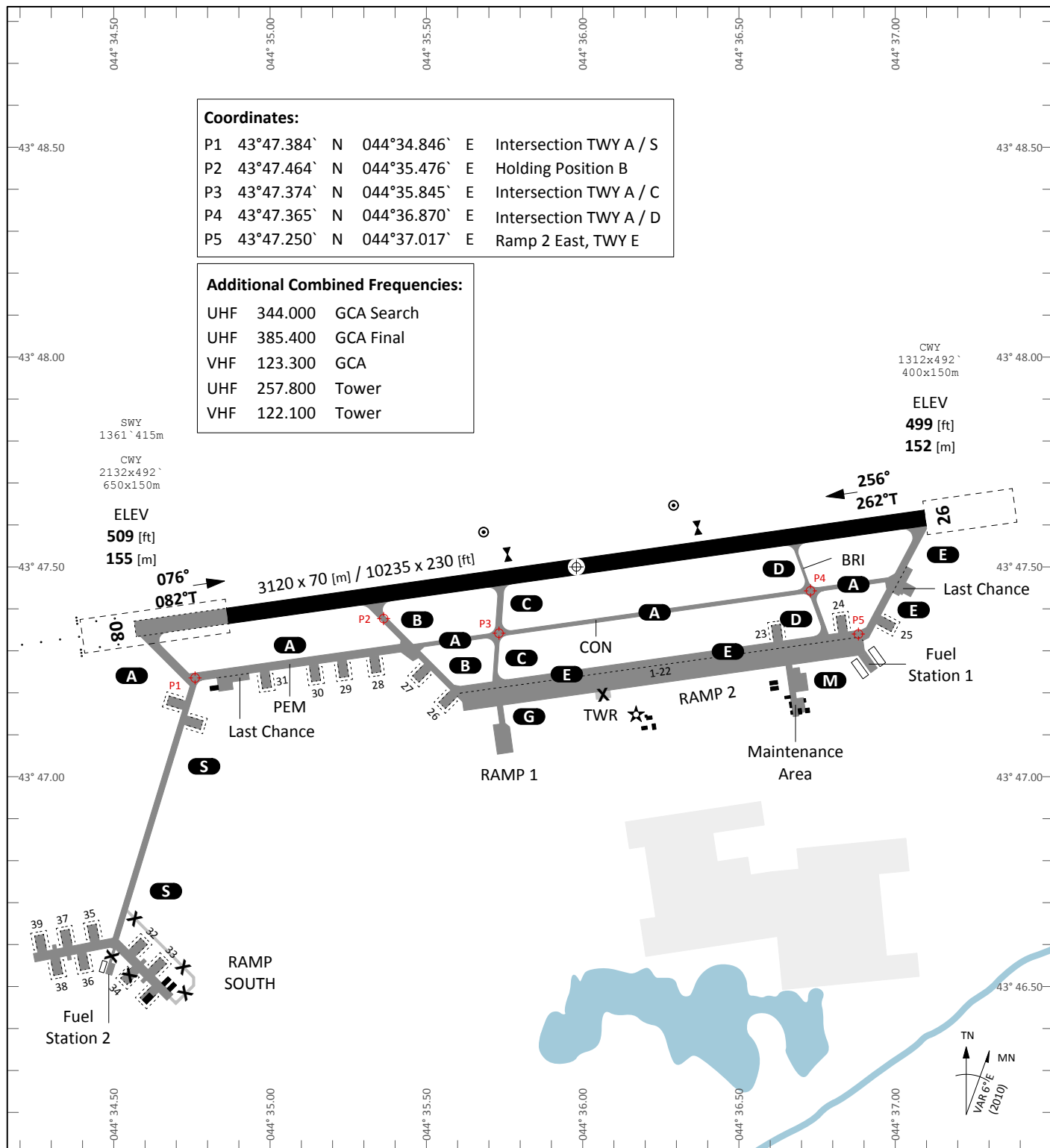
RWY	CAT	MINIMA	ARP	ELEV	Scale 1:18'000
PAR	06	A B C D E	298 - 0.8 200 (200-0.8/1.6) GS 3°	43° 26.669' N	98 [ft]
SRA	02	A B C D E	298 - 0.8 200 (200-0.8/1.6) GS 3°	039° 56.489' E	30 [m]
	06 - 24	A B C D E	448 - 1.2 350 (350-1.2/1.6)		
	02 - 20	A B C D E	448 - 1.2 350 (350-1.2/1.6)		

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
06	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	43°26.337'N 039°55.432'E	⊙
24	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	10170 [ft] 3100 [m]	43°26.997'N 039°57.540'E	⊙
02	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	43°26.149'N 039°56.642'E	
20	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	7220 [ft] 2200 [m]	43°27.167'N 039°57.459'E	

Tower	Radar	Final - Precision	TACAN	ILS RWY 06		
127.000 MHz				111.10 MHz		







	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:25'000
PAR	08 - 26	A B C D E	<b>708</b> - 0.8 200 (200-0.8/1.6) GS 3°	43° 47.504` N	<b>509</b> [ft]	
SRA	08 - 26	A B C D E	<b>858</b> - 1.2 350 (350-1.2/1.6)	044° 35.981` E	<b>155</b> [m]	

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
08	10235 [ft] 3120 [m]	11545 [ft] 3520 [m]	10235 [ft] 3120 [m]	10235 [ft] 3120 [m]	43°47.514`N 044°34.984`E	Ⓔ
26	10235 [ft] 3120 [m]	12365 [ft] 3770 [m]	11595 [ft] 3535 [m]	10235 [ft] 3120 [m]	43°47.495`N 044°37.279`E	

Tower	Radar	Final - Precision	TACAN	ILS		
137.000 MHz						