

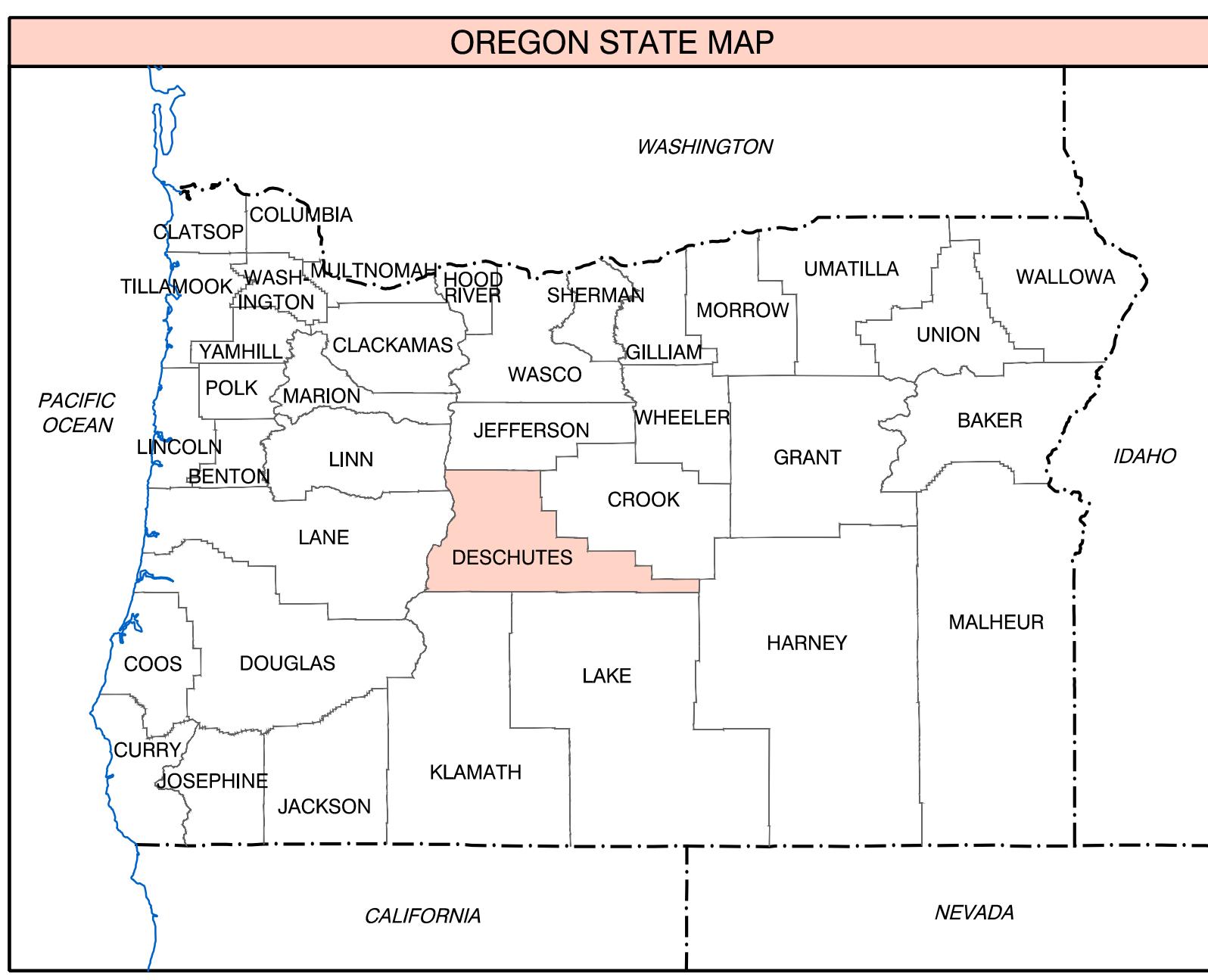
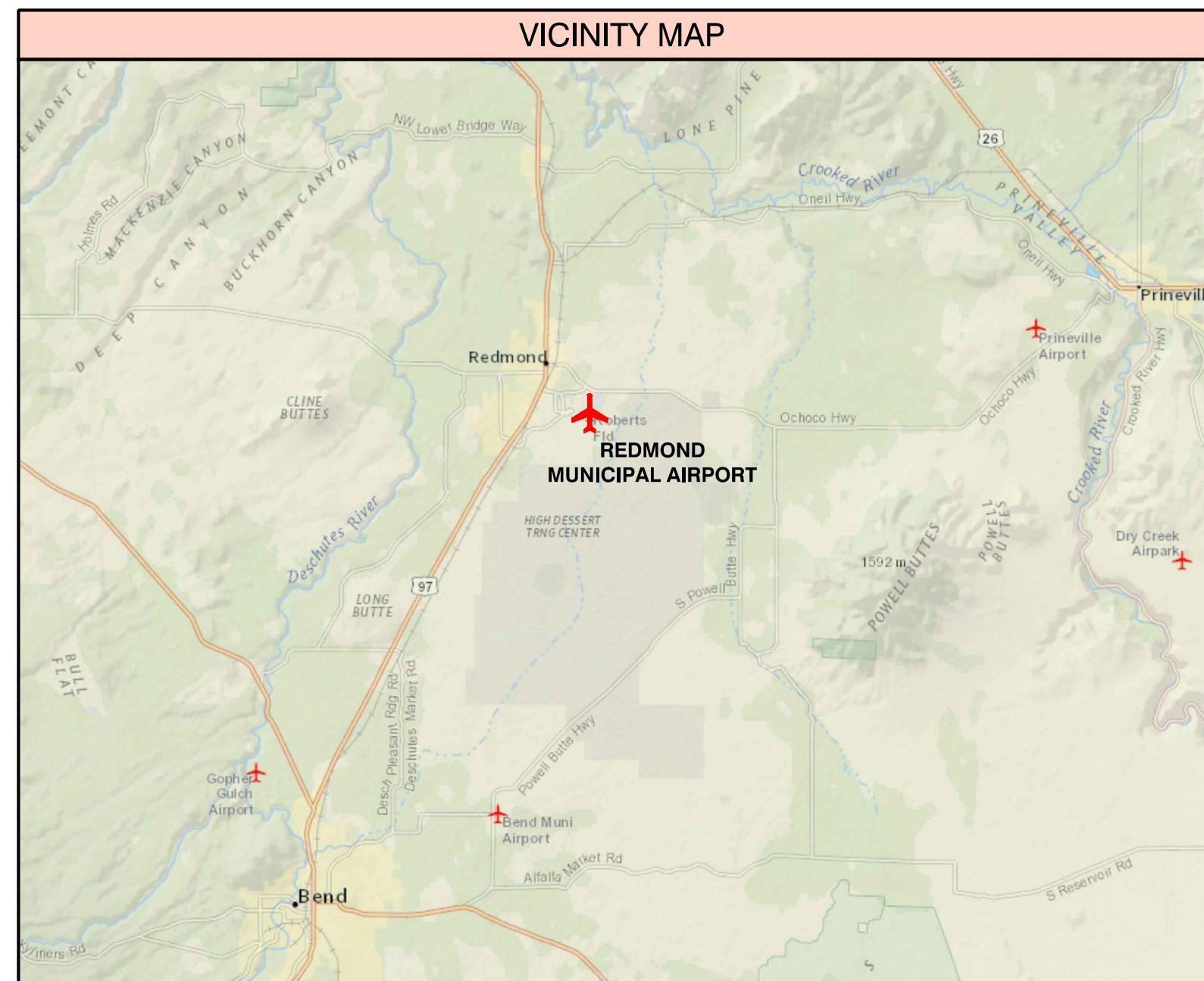
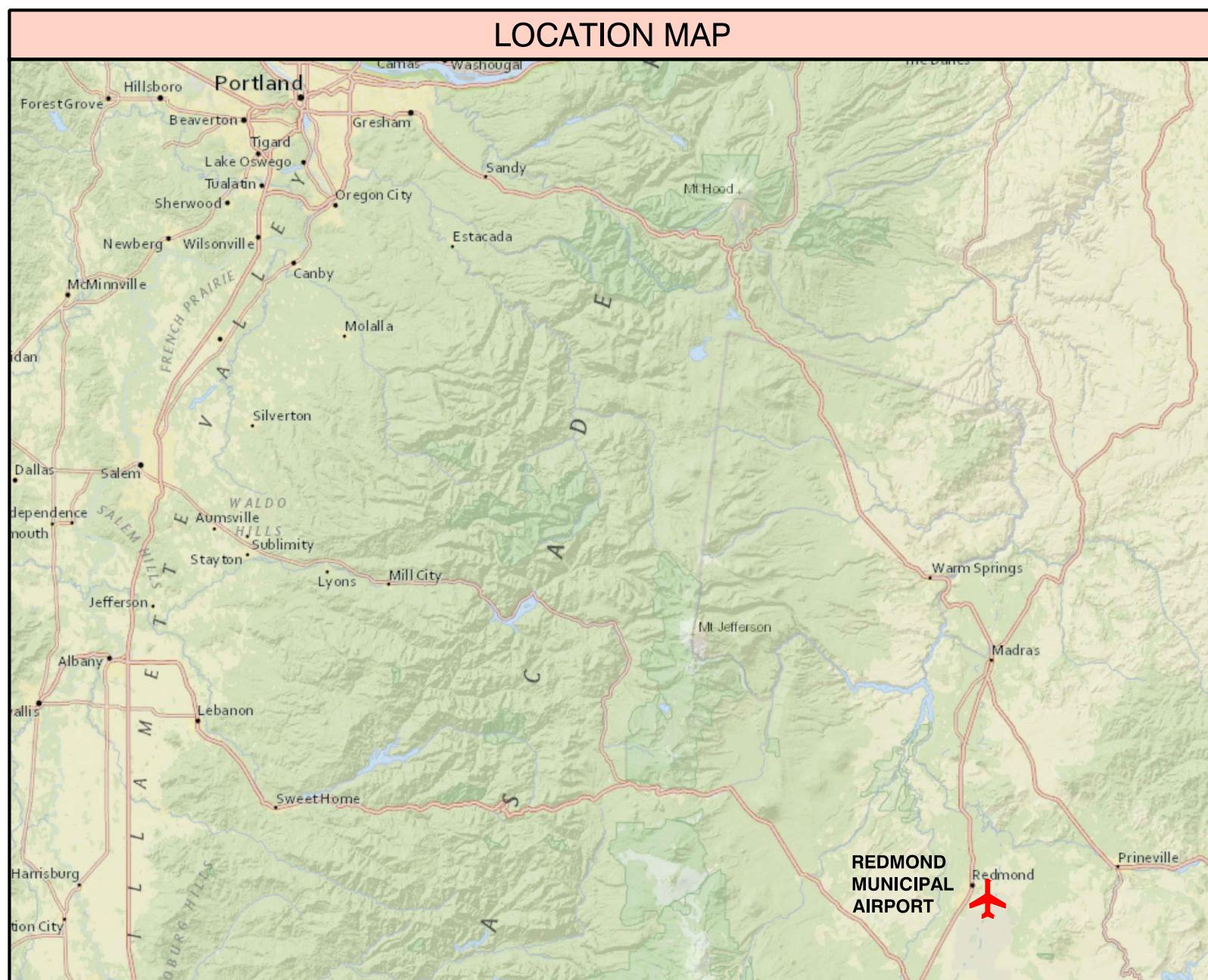
Redmond Municipal Airport

Airport Layout Plan

Redmond, Oregon

AUGUST 2018

AIP Grant 3-41-0052-041-2016



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 14. TERMINAL AREA PLAN
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 16. EXHIBIT 'A' AIRPORT PROPERTY MAP
 17. AIRPORT NOISE CONTOURS

BEVISION

REVISIONS						
△	DATE	BY	DESCRIPTION	APP'D	DATE	
1.	2011	JNR	Updated Nov. 2011 - Century West Eng.		1/12	
2.	2013	JNR	Updated AIP-035		7/13	
3.	2018	MH	2016 Master Plan - ALP Update		8/18	

SUBMITTED BY:
CITY OF REDMOND

By _____
Title _____ Date _____

REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond
411 SW 9th Street
Redmond Oregon 97756

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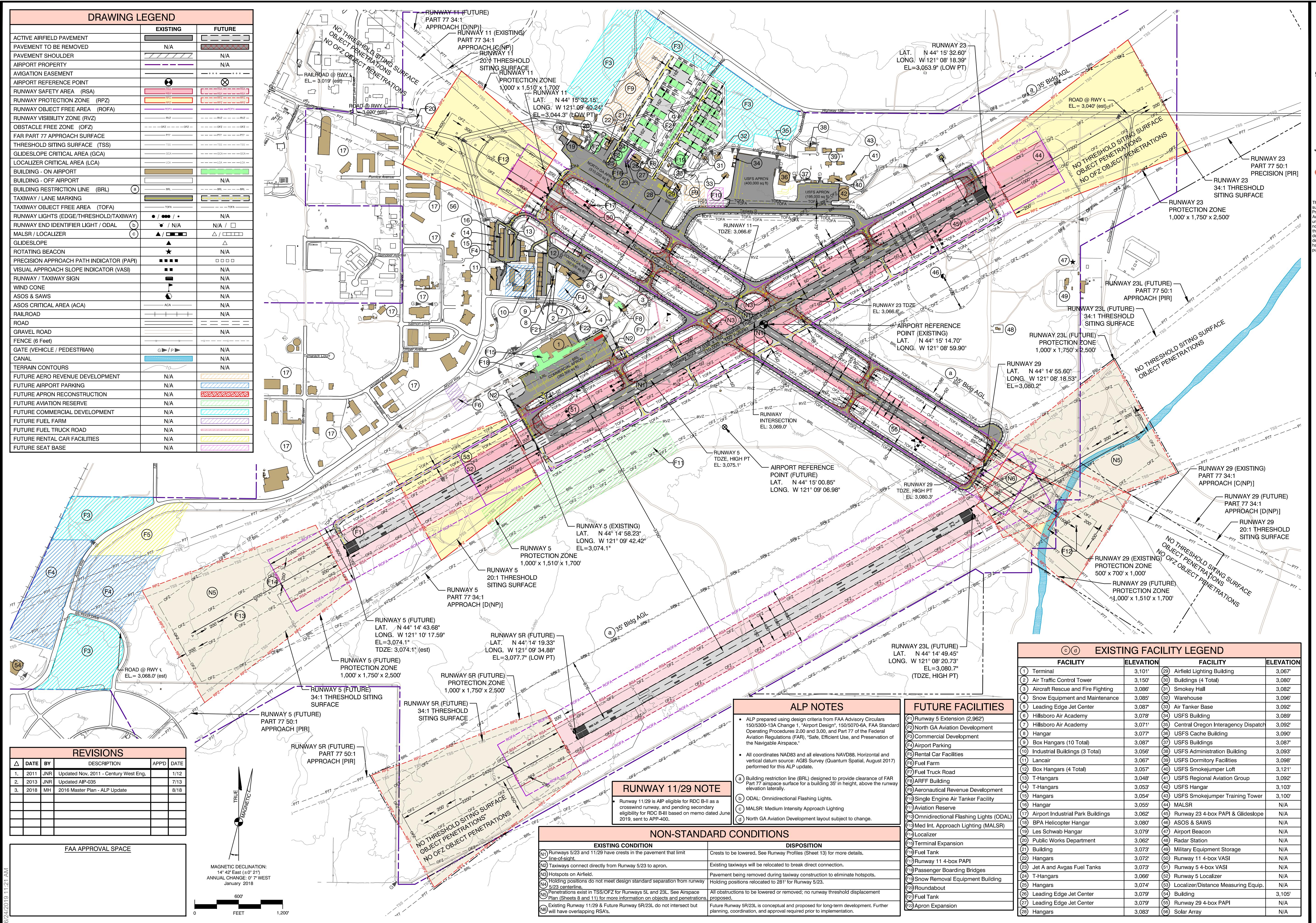
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AIRPORT LAYOUT PLAN

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AIRPORT DATA

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RUNWAY DATA													
	RUNWAY 5L-23R				RUNWAY 11-29 (T)				RUNWAY 5R-23L				
	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	
UTILITY / GREATER THAN UTILITY	Greater than Utility	No Change	Greater than Utility	No Change	N/A	Greater than Utility							
RUNWAY DESIGN CODE	C-III-2400	No Change	B-III-4000	No Change	N/A	C-III-2400							
APPROACH REFERENCE CODE	D/IV/2400	No Change	D/IV/4000	No Change	N/A	D/IV/2400							
CRITICAL AIRCRAFT (d)	AIRCRAFT	Embraer E175	Airbus A319	Bombardier Q400	No Change	N/A	Airbus A319						
	WINGSPAN	85.3'	111.9'	93.3'	No Change	N/A	111.9'						
	APPROACH SPEED (kts)	124 knots	128 knots	120 knots	No Change	N/A	126 knots						
	MAX. TAKEOFF WT. (lbs.)	82,673 lbs	168,653 lbs	64,500 lbs	No Change	N/A	168,653 lbs						
	COCKPIT TO MAIN GEAR	41.33'	44.90'	45.75'	No Change	N/A	44.90'						
	MAIN GEAR WIDTH	20.50'	29.36'	31.36'	No Change	N/A	29.36'						
TAXIWAY DESIGN GROUP	3	No Change	5	No Change	N/A	3							
PAVEMENT STRENGTH AND MATERIAL TYPE (c)	SURFACE MATERIAL	Asphalt	No Change	Asphalt	No Change	N/A	Asphalt						
	DESIGN STRENGTH (1,000#) - S/D/DT	120 / 216 / 399	No Change	109 / 178 / -	No Change	N/A	68 / 110 / 200						
	STRENGTH BY PCN	52/F/A/X/T	No Change	42/F/A/X/T	No Change	N/A	44/F/A/X/U						
	SURFACE TREATMENT	Grooved	No Change	Grooved	No Change	N/A	Grooved						
EFFECTIVE GRADIENT (%)	0.29%	0.20%	0.51%	No Change	N/A	0.05%							
VERTICAL LINE OF SIGHT PROVIDED	No	Yes	No	Yes	N/A	Yes							
RUNWAY LENGTH	7,038'	10,000'	7,006'	No Change	N/A	6,200'							
RUNWAY WIDTH	150'	No Change	100'	No Change	N/A	150'							
RUNWAY END ELEVATIONS (a)	5 3,074.1'	5 3,053.9'	11 3,043.3'	11 3,080.2'	29 3,077.7'	23 3,080.7'							
DISPLACED THRESHOLD	5 N/A	5 No Change	11 N/A	11 No Change	5 N/A	5 No Change							
DISPLACED THRESHOLD ELEVATIONS	5 N/A	5 No Change	11 N/A	11 No Change	5 N/A	5 No Change							
RUNWAY TOUCHDOWN ZONE ELEVATIONS (a)	5 3,075.1'	5 3,066.6'	11 3,067.9'	11 3,080.3'	29 3,080.7'	23 3,080.7'							
RUNWAY HIGH POINT (a)	5 3,075.1'	5 3,053.9'	11 3,043.3'	11 3,077.7'	N/A	N/A							
RUNWAY LOW POINT (a)	5 1,000'	5 1,000'	11 600'	11 600'	5 1,000'	5 1,000'							
RUNWAY SAFETY AREA (RSA) LENGTH BEYOND RUNWAY END	REQUIRED	23 1,000'	23 No Change	29 600'	29 No Change	23 1,000'							
	ACTUAL	5 1,000'	5 No Change	11 600'	11 No Change	5 N/A	5 1,000'						
RUNWAY SAFETY AREA WIDTH	REQUIRED	500'	No Change	300'	No Change	N/A	500'						
RUNWAY EDGE LIGHTING	High Intensity	No Change	Medium Intensity	No Change	N/A	High Intensity							
RUNWAY PROTECTION ZONE (RPZ) APPROACH (Inner Width x Outer Width x Length)	5 1,000x1,510x1,700'	5 1,000x1,750x2,500'	11 1,000x1,510x1,700'	11 1,000x1,750x2,500'	23 1,000x1,750x2,500'	23 1,000x1,750x2,500'							
RUNWAY PROTECTION ZONE (RPZ) DEPARTURE (Inner Width x Outer Width x Length)	5 500x1,010x1,700'	5 500x1,010x1,700'	11 500x700x1,000'	11 500x700x1,000'	23 500x1,010x1,700'	23 500x1,010x1,700'							
RUNWAY MARKING	5 Precision	5 No Change	11 Nonprecision	11 No Change	5 N/A	5 Precision							
PART 77 APPROACH CATEGORY	23 Precision [PIR]	23 Nonprecision [C(NP)]	11 Nonprecision [C(NP)]	11 Nonprecision [D(NP)]	5 N/A	5 Precision [PIR]							
PART 77 APPROACH SLOPE	5 34:1	5 50:1	11 34:1	11 No Change	5 N/A	5 50:1							
APPROACH VISIBILITY MINIMUMS	5 3/4 - Mile	5 1/2 - Mile	11 7/8 - Mile	11 3/4 - Mile	5 N/A	5 1/2 - Mile							
AERONAUTICAL SURVEY REQUIRED (VERTICALLY GUIDED OR NOT)	5 Yes	5 No Change	11 Yes	11 No Change	5 N/A	5 Yes							
RUNWAY DEPARTURE SURFACE	5 Yes	23 No Change	29 Yes	29 No Change	23 N/A	23 Yes							
RUNWAY OBJECT FREE AREA (ROFA) (Length Beyond Runway End)	5 1,000'	5 No Change	11 600'	11 No Change	5 N/A	5 1,000'							
RUNWAY OBJECT FREE AREA WIDTH	800'	No Change	800'	No Change	N/A	800'							
OBSTACLE FREE ZONE (OFZ) (Length Beyond Runway End)	5 200'	5 No Change	11 200'	11 No Change	5 N/A	5 200'							
OBSTACLE FREE ZONE WIDTH	400'	No Change	400'	No Change	N/A	400'							
INNER-APPROACH OFZ LENGTH (For Rwy w/ Approach Lighting System. Begins 200' from Rwy end @ 50:1)	5 N/A	5 2,400'	11 N/A	11 1,500'	5 N/A	5 2,400'							
INNER-APPROACH OFZ WIDTH	400'	No Change	N/A	400'	N/A	400'							
INNER-TRANSITIONAL OFZ WIDTH (For Runways w/ <3/4-mile Approach Visibility Minimums)	5 N/A	5 1,784.1'	11 N/A	11 No Change	5 N/A	5 1,741.0'							
PRECISION OBSTACLE FREE ZONE (Length x Width) (For Rwy w/ vert. guided approach and <250' ceiling/<3/4 mile visibility)	23 1,991.0'	23 2,025.8'	29 N/A	29 No Change	23 N/A	23 1,705.1'							
THRESHOLD SITING SURFACE (Per AC 150/5300-1A, Table 3-2 - Change 1. See Airspace Plan for more information.)	20:1- Approach end to accommodate inst. approaches w/ visibility minimums < 3/4 mile but < 1 SM, day or night.	34:1- Approach end to accommodate inst. approaches w/ visibility minimums < 3/4 mile but < 1 SM, day or night.	20:1- Approach end to accommodate inst. approaches w/ visibility minimums < 3/4 mile but < 1 SM, day or night.	34:1- Approach end to accommodate inst. approaches w/ visibility minimums < 3/4 mile but < 1 SM, day or night.	23 N/A	23 N/A							
NAVIGATION AIDS	5 GPS, LOCALIZER	5 Same + RNAV	11 VOR, GPS	11 No Change	5 N/A	5 GPS, LOCALIZER, ILS, RNAV							
VISUAL AIDS	5 VASI-4L REIL	5 Same + MLSR	11 VASI-4L REIL	11 PAPI-4L REIL, ODALS	5 N/A	5 PAPI-4L, MLSR							
RUNWAY C.L. TO:	PARALLEL RUNWAY C.L.	N/A	3,700'	N/A	No Change	N/A	3,700'						
	HOLDING POSITION	281'	No Change	200'	No Change	N/A	281'						
	PARALLEL TAXIWAY C.L.	400'	No Change	300'	No Change	N/A	400'						
	AIRCRAFT PARKING AREA	500'	No Change	400'	No Change	N/A	500'						
	HELICOPTER TOUCHDOWN PAD	718'	No Change	N/A	No Change	N/A	718'						

TAXIWAY DATA

A, B, C		D		A CONNECTORS		B1, C3(T1)		B2(T1)		B3, B4(T1)		C1, C2(T1
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REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond
411 SW 9th Street
Redmond, Oregon 97756

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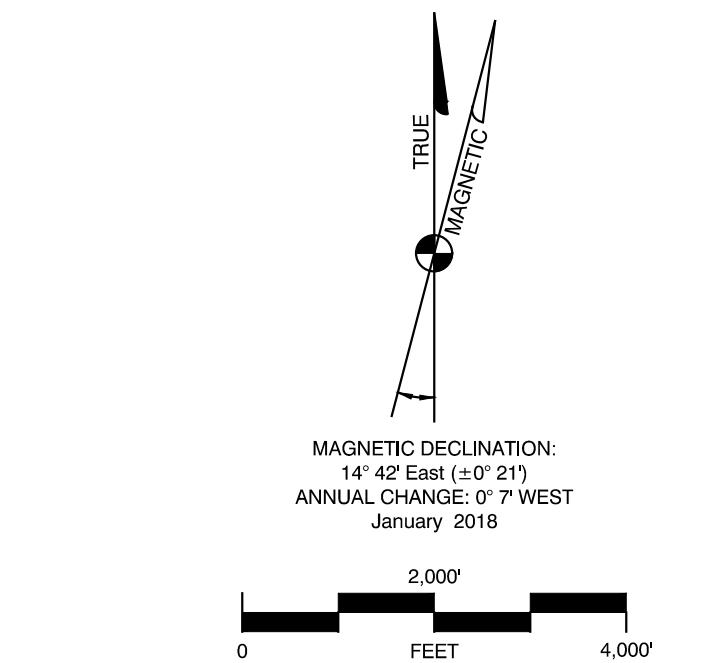
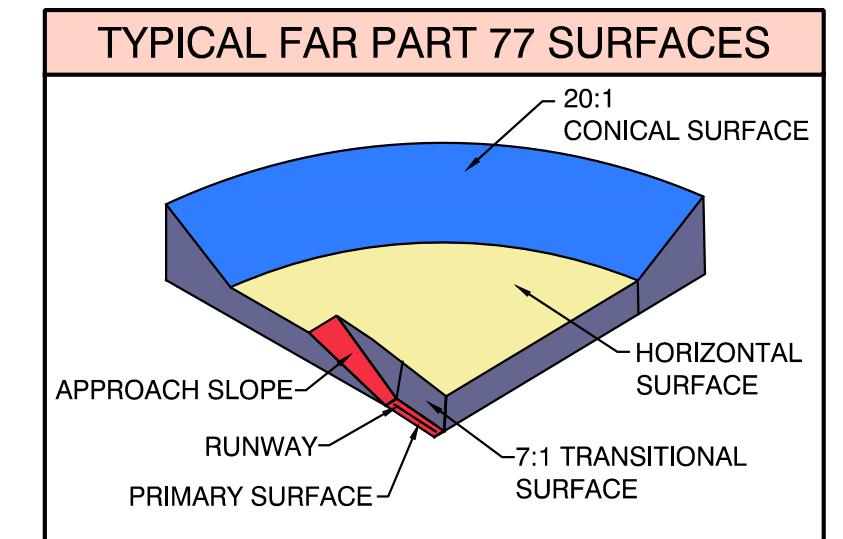
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SHEET CONTENTS
RUNWAYS 5L/5R
OUTER APPROACHES

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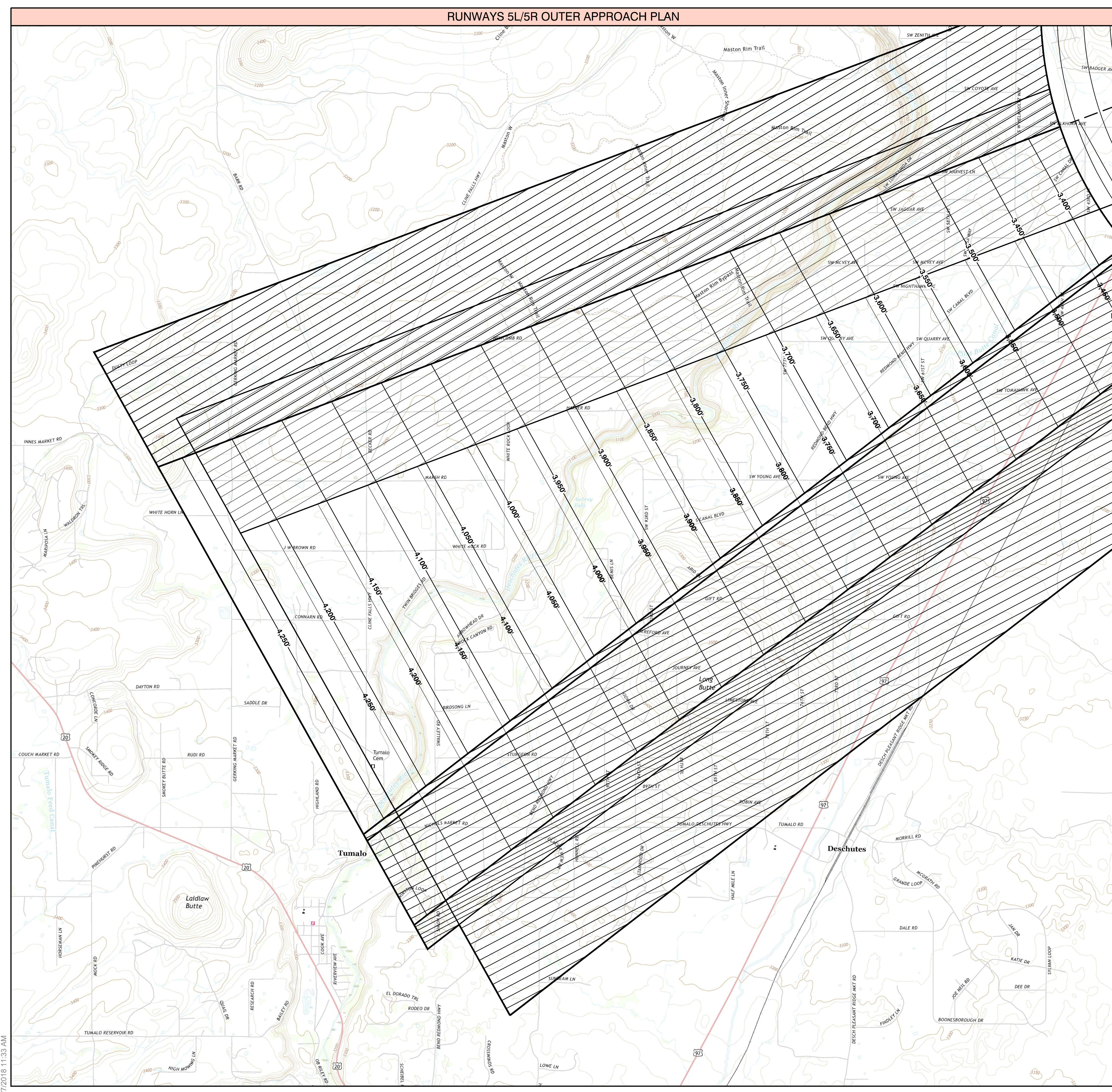


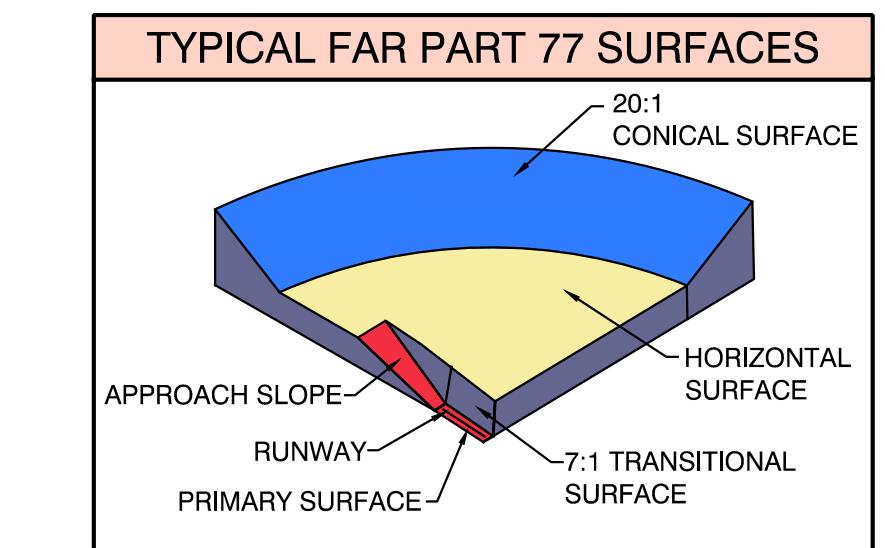
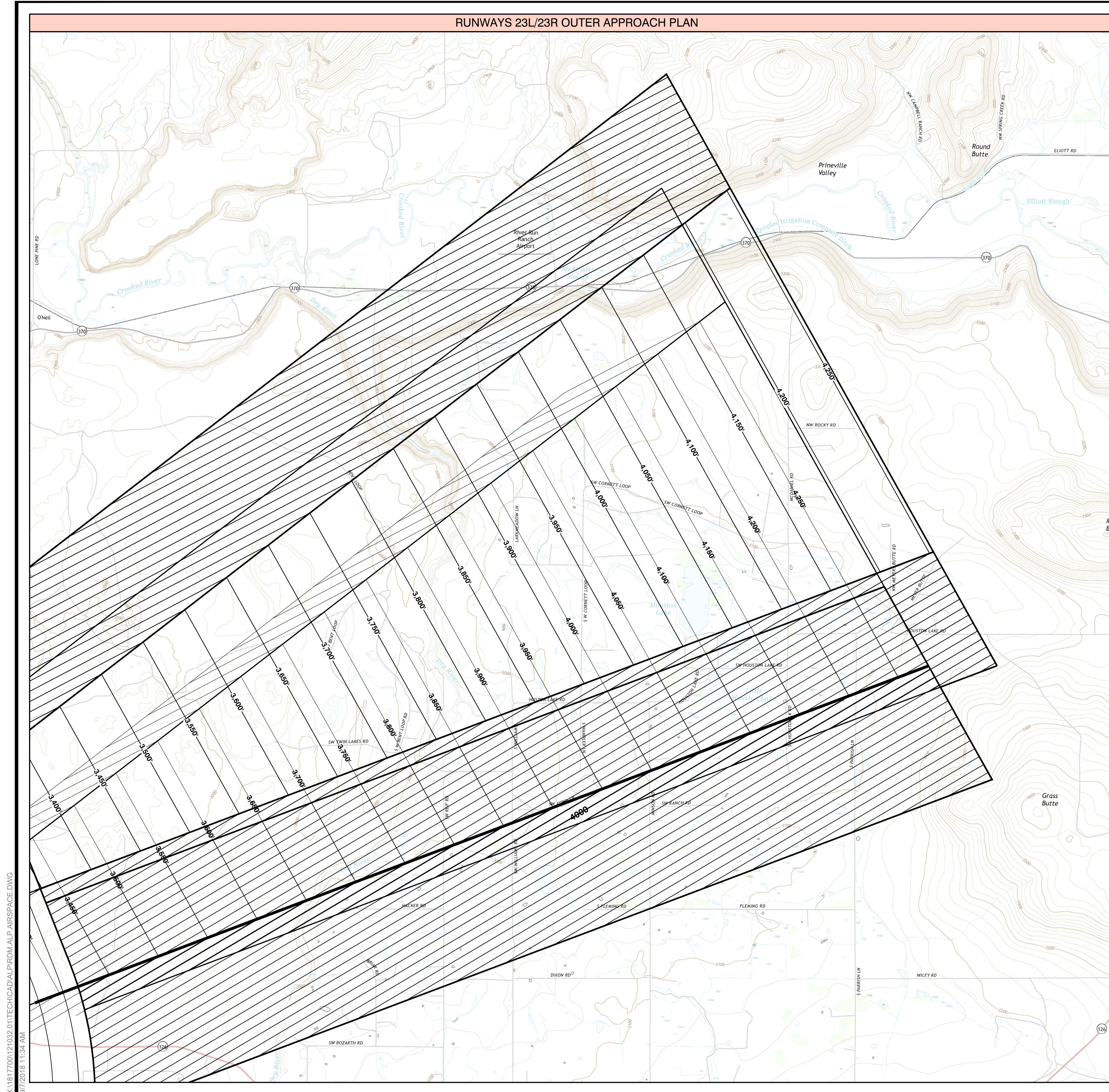
LEGEND: PLAN VIEW

- Part 77 Surfaces
- Part 77 Approach Surface
- Part 77 Surface Contour
- Terrain Contours

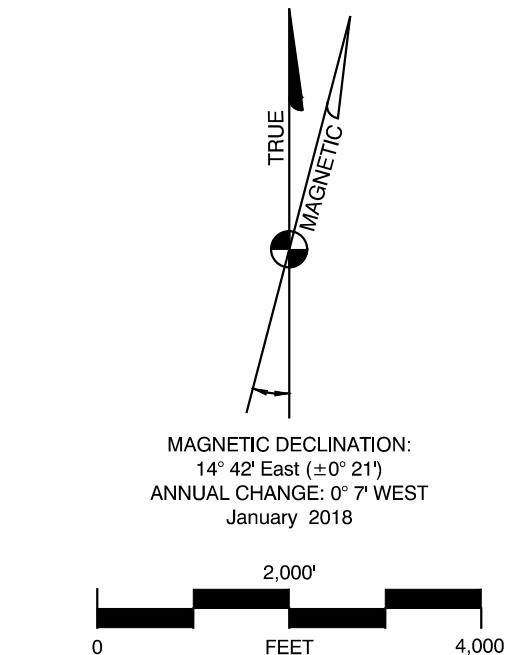
NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Basemap source: USGS Topographic maps.
- See Departure Surfaces (Sheet 12) for 40:1 departure surfaces for each runway.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.





TYPICAL FAB PART 77 SURFACES



REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

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SHEET CONTENTS

RUNWAYS 23L/23R

1

APPROACHES

1

SHEET NO.

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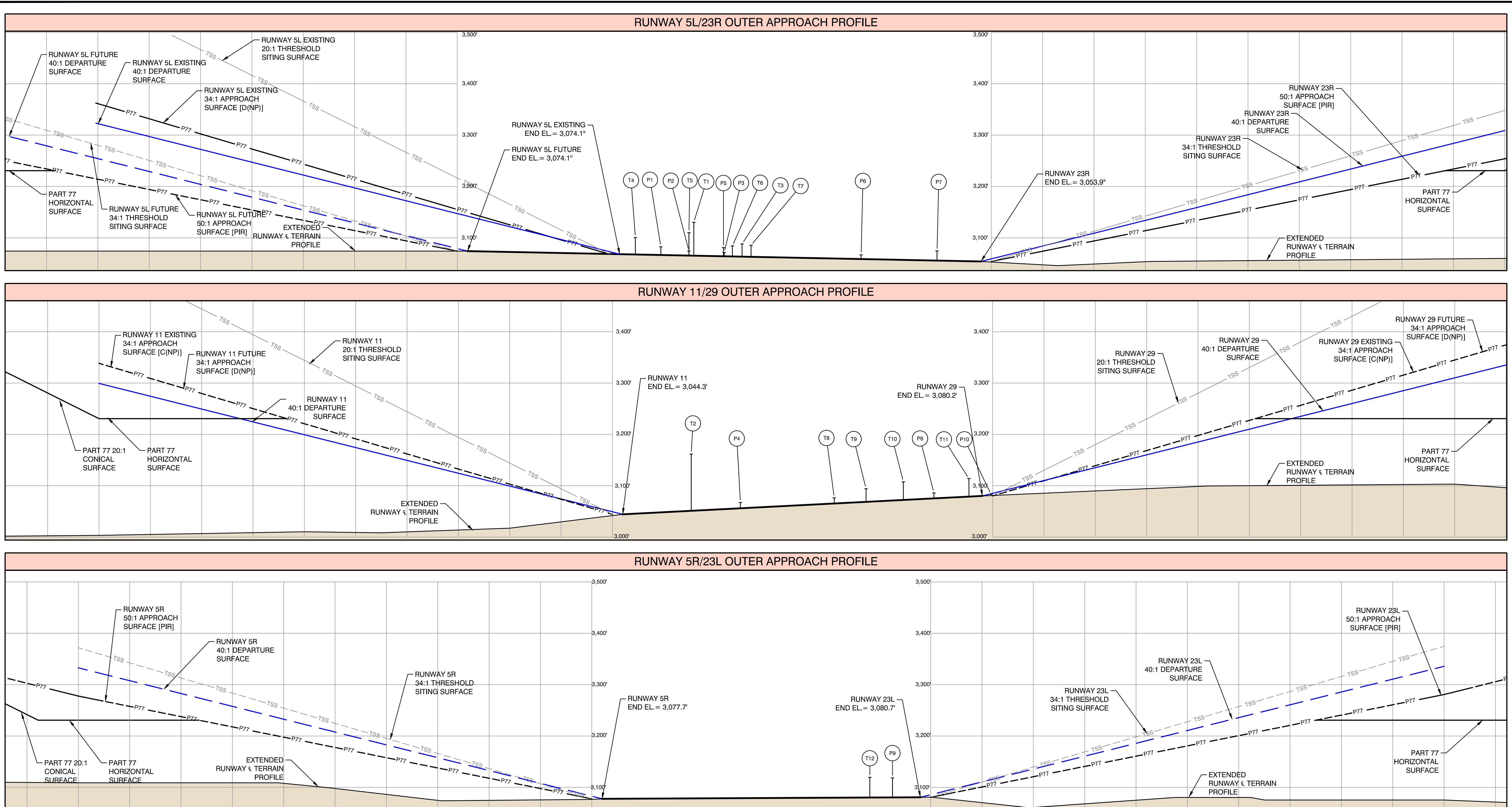
SHEET CONTENTS

PART 77 PROFILES

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PROFILE VIEW:
VERTICAL EXAGGERATION OF 10
VERTICAL SCALE: 1' = 100'
0 1,000' FEET 2,000'



LEGEND: PROFILE VIEW

- P77 Part 77 Surface
- - - P77 Part 77 Future Approach Surface
- TSS Existing Threshold Siting Surface (TSS)
- - - TSS Future TSS
- 40:1 Existing Departure Surface
- - - 40:1 Future Departure Surface
- Object

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Trees in close proximity and similar elevations are grouped together.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.

PART 77 PRIMARY AND TRANSITIONAL OBJECTS

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	PART 77 SURFACE ELEVATION	PART 77 PENETRATION	DISPOSITION
P1	Windsock	3082.5	Primary	3,070.9'	11.7'	No Action
P2	Vegetation	3074.2	Primary	3,070.3'	3.9'	Remove
P3	Vegetation (3)	3071.3	Primary	3,069.7'	1.6'	Remove
P4	Vegetation	3067.4	Primary	3,066.8'	0.6'	Remove
P5	Vegetation (6)	3080.9	Primary	3,069.9'	11.0'	Remove
P6	Vegetation	3066.8	Primary	3,064.8'	2.0'	Remove
P7	AWOS Antenna	3074.4	Primary	3,068.2'	16.2'	No Action
P8	Windsock	3066.1	Primary	3,077.9'	8.2'	No Action
P9	Trees (15)	3118.3	Primary	3,080.4'	37.9'	Remove
P10	Vegetation (3)	3063.8	Primary	3,080.6'	3.2'	Remove
T1	Pole	3130.1	Transitional	3,119.7'	10.4'	Obstruction Light
T2	ATCT	3161.6	Transitional	3,143.0'	18.6'	No Action
T3	Windsock	3088.1	Transitional	3,080.8'	7.3'	No Action
T4	Trees (3)	3100.5	Transitional	3,093.9'	6.6'	Trim
T5	Trees (10)	3110	Transitional	3,091.5'	18.5'	Trim
T6	Vegetation	3084.3	Transitional	3,079.9'	4.4'	Trim
T7	Building	3085.5	Transitional	3,083.3'	2.2'	No Action
T8	Vegetation	3076.3	Transitional	3,074.6'	1.7'	Trim
T9	Tree	3094.2	Transitional	3,093.7'	0.5'	Trim
T10	Trees (3)	3107.7	Transitional	3,102.7'	5.0'	Trim
T11	Tree	3114	Transitional	3,108.1'	5.9'	Trim
T12	Trees (5)	3119.5	Transitional	3,109.2'	10.3'	Trim



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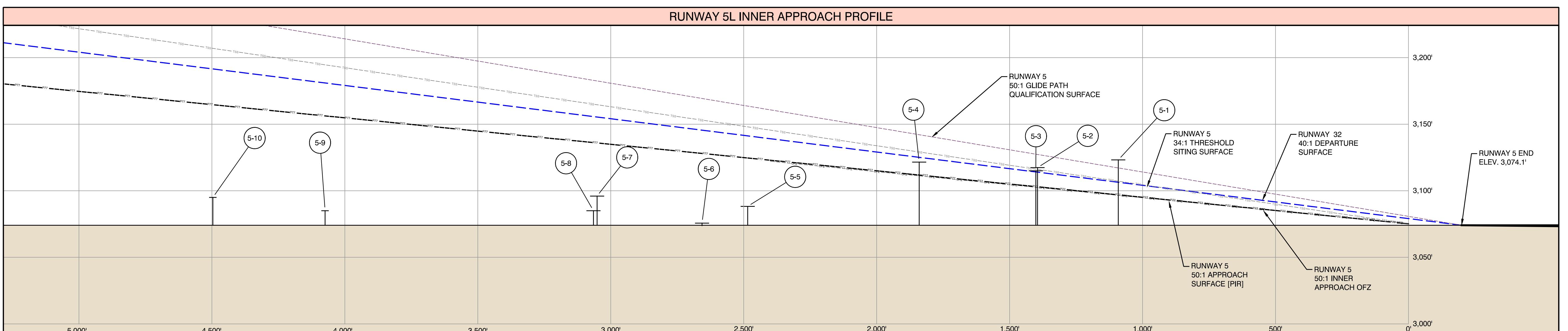
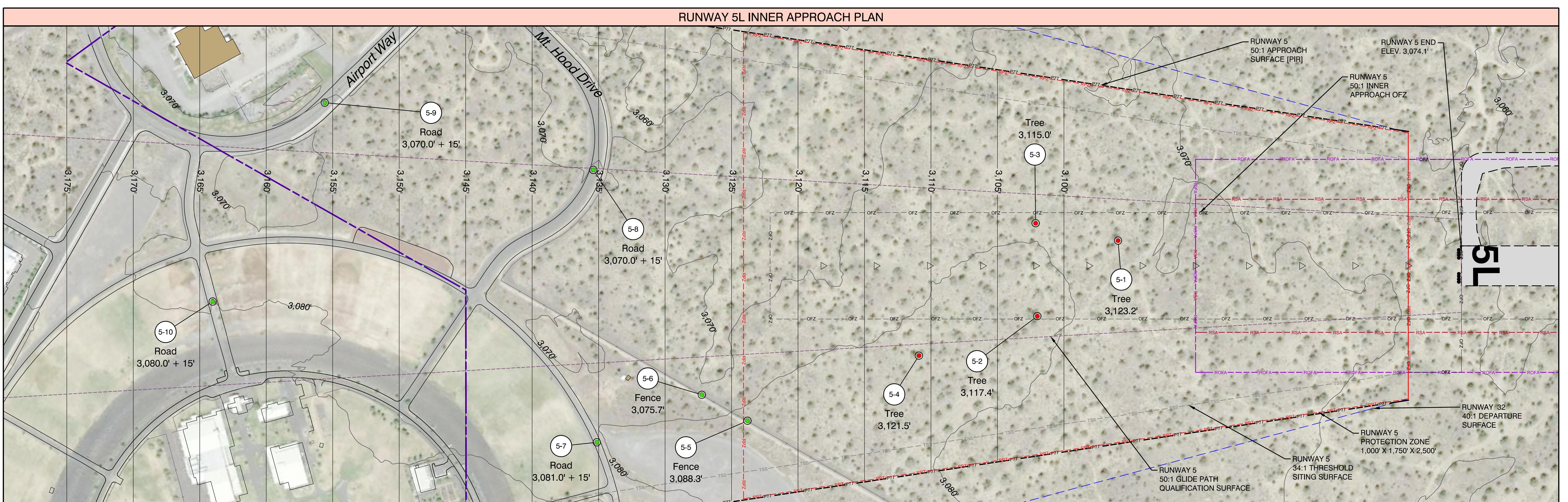
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SHEET CONTENTS

INNER APPROACH
RUNWAY 5L/23R -
FUTURE

SHEET NO.

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X1817700-121032.01-TECH-CAD1P.DWG | ALP/AIRSPACE - ALLOWABLE HEIGHT RWY 5.DWG
31720181138AM

LEGEND: PLAN VIEW

- Future Runway / Taxiway
- Airport Property Boundary
- Building - On Airport / Off Airport
- Part 77 Approach Surface
- Part 77 Surface Contour
- Runway Departure Surface
- Threshold Siting Surface (TSS)
- Runway Protection Zone (RPZ)
- Runway Safety Area (RSA)
- Runway Object Free Area (ROFA)
- Object Penetrates Part 77 Surface
- Object > 10ft. Clear of Part 77 Surface
- Glide Path Qualification Surface
- Terrain Contours

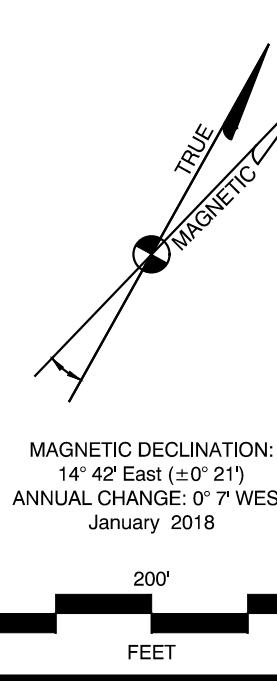
NOTES:

- Runway ends. Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Ortho imagery: Quantum Spatial, August 2017.
- Airscape surfaces associated with the future Runway 5L end and instrument approaches are illustrated (Runway 5L will have a 2,362' extension).
- Threshold siting surface (TSS) penetrations are proposed to be lowered or removed prior to runway extension. No runway threshold displacement proposed.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.
- Per Part 77, 15 feet added to road elevations.

RUNWAY 5L OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GLIDE PATH QUAL. SURFACE	GQS PENETRATION	50:1 INNER APPROACH OFZ	INNER APPROACH OFZ PENETRATION	DISPOSITION
5-1	Tree	3,123.2'	Approach	3,095.9'	27.3'	3,106.2'	17.0'	3,117.1'	6.1'	3,095.9'	27.3'	Trim/Remove
5-2	Tree	3,117.4'	Approach	3,102.0'	15.4'	3,115.1'	2.3'	3,127.3'	-9.9'	3,102.0'	15.4'	Trim/Remove
5-3	Tree	3,115.0'	Approach	3,102.1'	12.9'	3,115.3'	-0.3'	3,127.5'	-12.5'	3,102.1'	12.9'	Trim/Remove
5-4	Tree	3,121.5'	Approach	3,110.9'	10.6'	3,128.2'	-5.7'	Object Not Under Surface	Object Not Under Surface	Trim/Remove		
5-5	Fence	3,088.3'	Approach	3,127.2'	-38.9'	3,152.2'	-63.9'	Object Not Under Surface	Object Not Under Surface	No Action		
5-6	Fence	3,075.8'	Approach	3,127.2'	-51.4'	3,152.2'	-76.4'	Object Not Under Surface	Object Not Under Surface	No Action		
5-7	Road	3,096.0'	Approach	3,135.1'	-39.1'	3,163.9'	-67.9'	Object Not Under Surface	Object Not Under Surface	No Action		
5-8	Road	3,085.0'	Approach	3,135.4'	-50.4'	3,164.2'	-79.2'	3,182.9'	-97.9'	Object Not Under Surface	No Action	
5-9	Road	3,085.0'	Approach	3,155.6'	-70.6'	3,193.9'	-108.9'	Object Not Under Surface	Object Not Under Surface	No Action		
5-10	Road	3,095.0'	Approach	3,164.0'	-69.0'	3,206.4'	-111.4'	3,230.7'	-135.7'	Object Not Under Surface	No Action	

PROFILE VIEW:
VERTICAL EXAGGERATION OF 5
VERTICAL SCALE: 1" = 40'



X1817700-121032.01-TECH-CAD1P.DWG | ALP/AIRSPACE - ALLOWABLE HEIGHT RWY 5.DWG
31720181138AM



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REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond
411 SW 9th Street
Redmond, Oregon 97756

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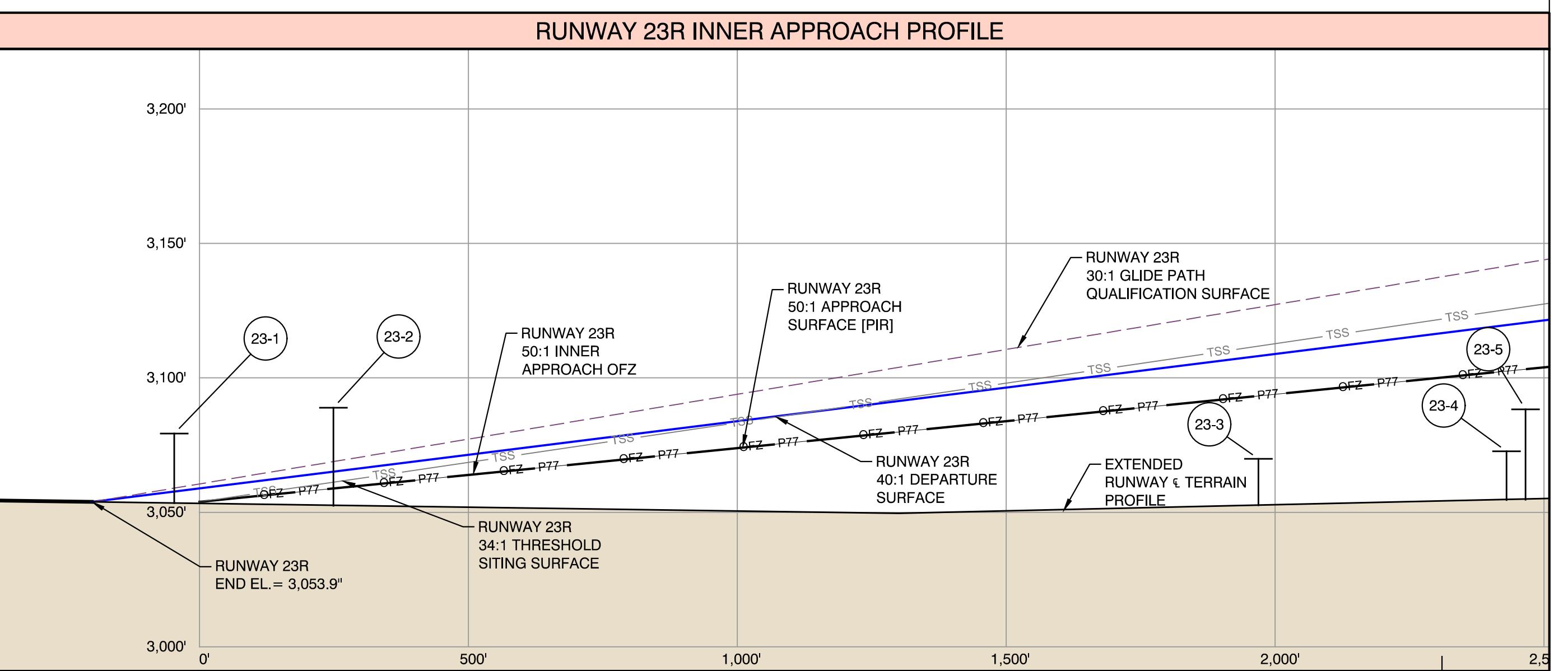
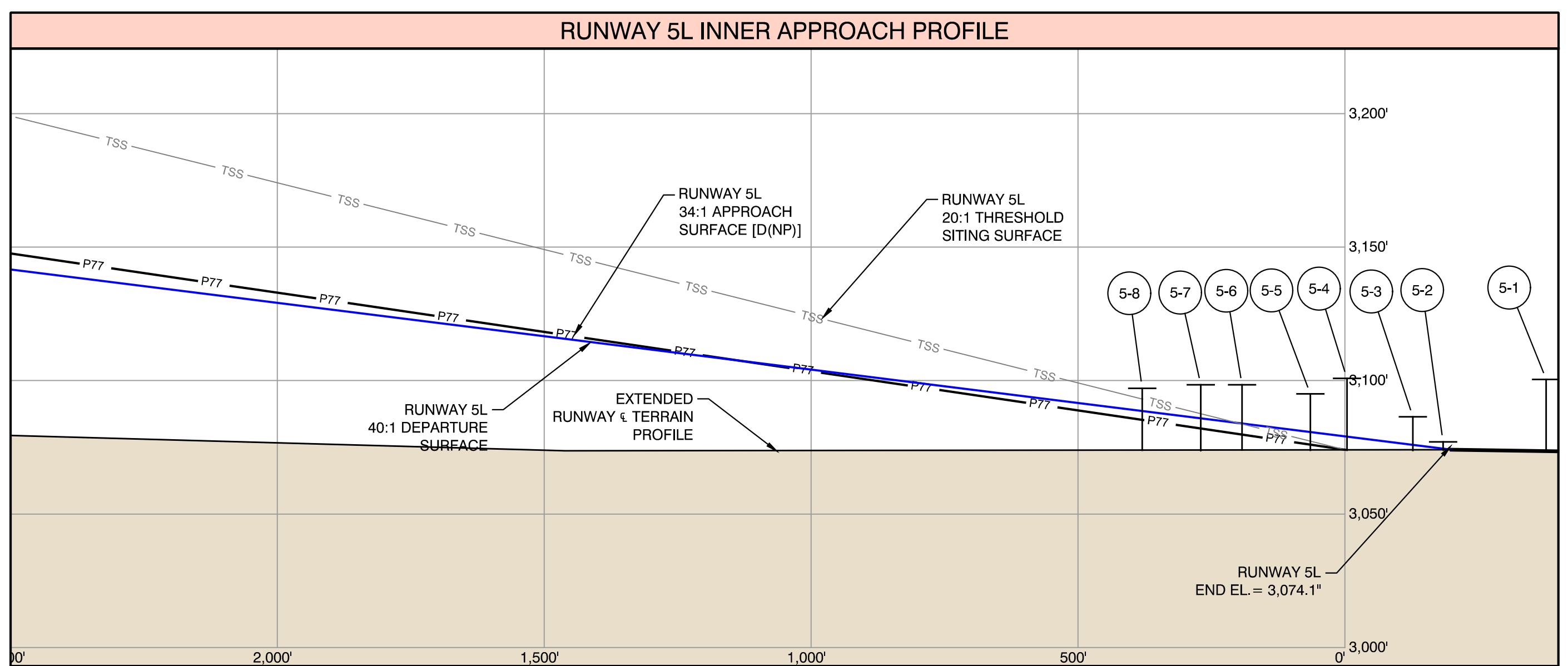
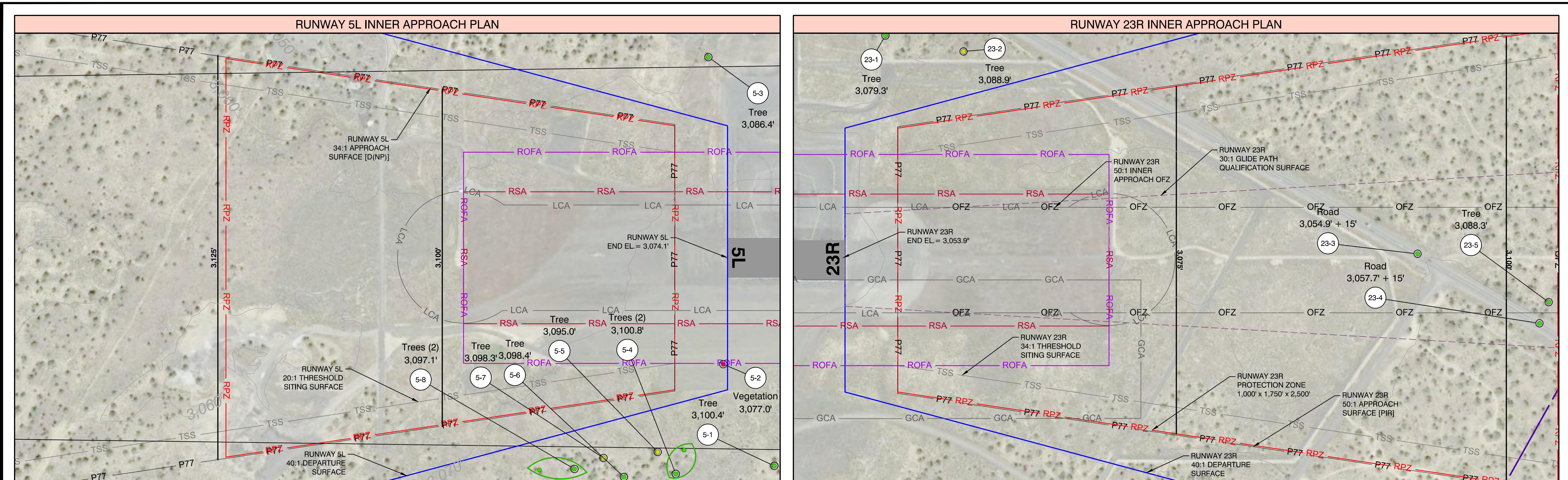
M&H NO.: 1817700-121032.01
DATE: August 2018
DESIGNED BY: BM
DRAWN BY: DL, TE
CHECKED BY: BM
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SHEET CONTENTS

INNER APPROACH
RUNWAY 5L/23R -
EXISTING

SHEET NO.

9 of 17



LEGEND: PLAN VIEW

- Runway
- Airport Property Boundary
- Part 77 Approach Surface
- Part 77 Surface Contour
- Threshold Siting Surface (TSS)
- 40:1 Departure Surface
- 30:1 Glide Path Qualification Surface
- Localizer Critical Area (LCA)
- GlideScope Critical Area (GCA)
- RPZ - Runway Protection Zone (RPZ)
- RSA - Runway Safety Area (RSA)
- ROFA - Runway Object Free Area (ROFA)
- OFZ - Obstacle Free Zone (OFZ)
- Object Penetrates Part 77 Surface
- Object Within 10ft. Part 77 Surface
- Object > 10ft. Clear of Part 77 Surface
- Terrain Contours
- Group of Trees

NOTES:

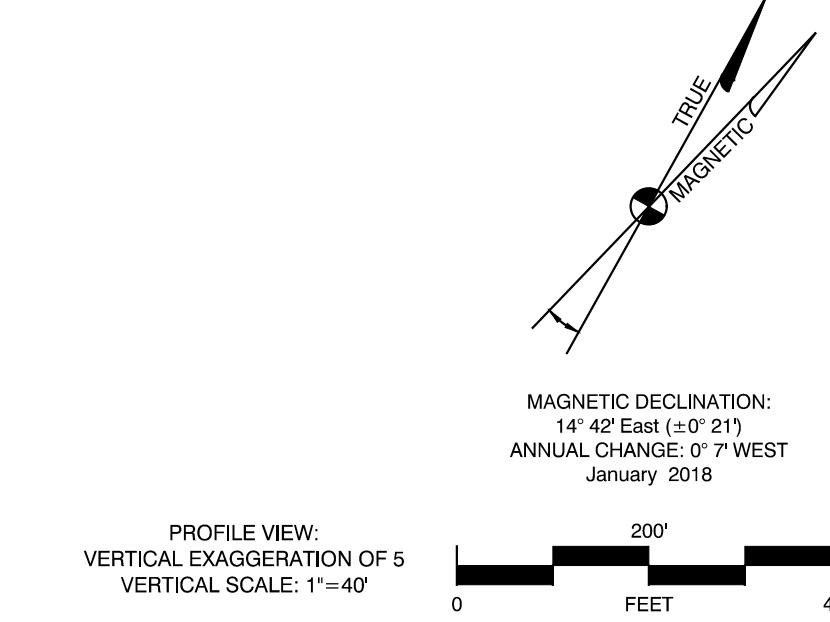
- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Ortho imagery: Quantum Spatial, August 2017.
- Airscape surfaces associated with the existing runway and instrument approaches are illustrated.
- Trees in close proximity and similar elevations are grouped together.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.
- Per Part 77, 15 feet added to road elevations.

RUNWAY 5L OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	DISPOSITION
5-1	Tree	3,100.4'	Transitional	3,115.4'	-15.0'	Object Not Under Surface	No Action	
5-2	Vegetation	3,077.0'	Primary	3,074.1'	2.9'	Object Not Under Surface	Remove	
5-3	Tree	3,086.4'	Transitional	3,111.3'	-24.9'	Object Not Under Surface	No Action	
5-4	Trees (2)	3,100.8'	Transitional	3,119.7'	-18.9'	Object Not Under Surface	No Action	
5-5	Tree	3,095.0'	Transitional	3,102.2'	-7.2'	Object Not Under Surface	No Action	
5-6	Tree	3,098.4'	Transitional	3,121.3'	-22.9'	Object Not Under Surface	No Action	
5-7	Tree	3,098.3'	Transitional	3,105.8'	-7.5'	Object Not Under Surface	No Action	
5-8	Trees (2)	3,097.1'	Transitional	3,117.0'	-19.9'	Object Not Under Surface	No Action	

RUNWAY 23R OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GLIDE PATH QUAL. SURFACE	GOS PENETRATION	50:1 INNER APPROACH OFZ	INNER APPROACH OFZ PENETRATION	DISPOSITION
23-1	Tree	3,079.3'	Transitional	3,104.0'	-24.7'	Object Not Under Surface	No Action					
23-2	Tree	3,088.9'	Transitional	3,095.3'	-6.4'	Object Not Under Surface	No Action					
23-3	Road	3,069.9'	Approach	3,093.3'	-23.4'	3,111.8'	-41.9'	3,126.2'	-56.3'	3,093.3'	-23.4'	No Action
23-4	Road	3,072.7'	Approach	3,102.5'	-29.8'	3,125.4'	-52.7'	3,141.6'	-68.9'	3,102.5'	-29.8'	No Action
23-5	Tree	3,088.3'	Approach	3,103.2'	-14.9'	3,126.4'	-38.1'	3,142.8'	-54.5'	3,103.2'	-14.9'	No Action





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REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond
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Redmond, Oregon 97756

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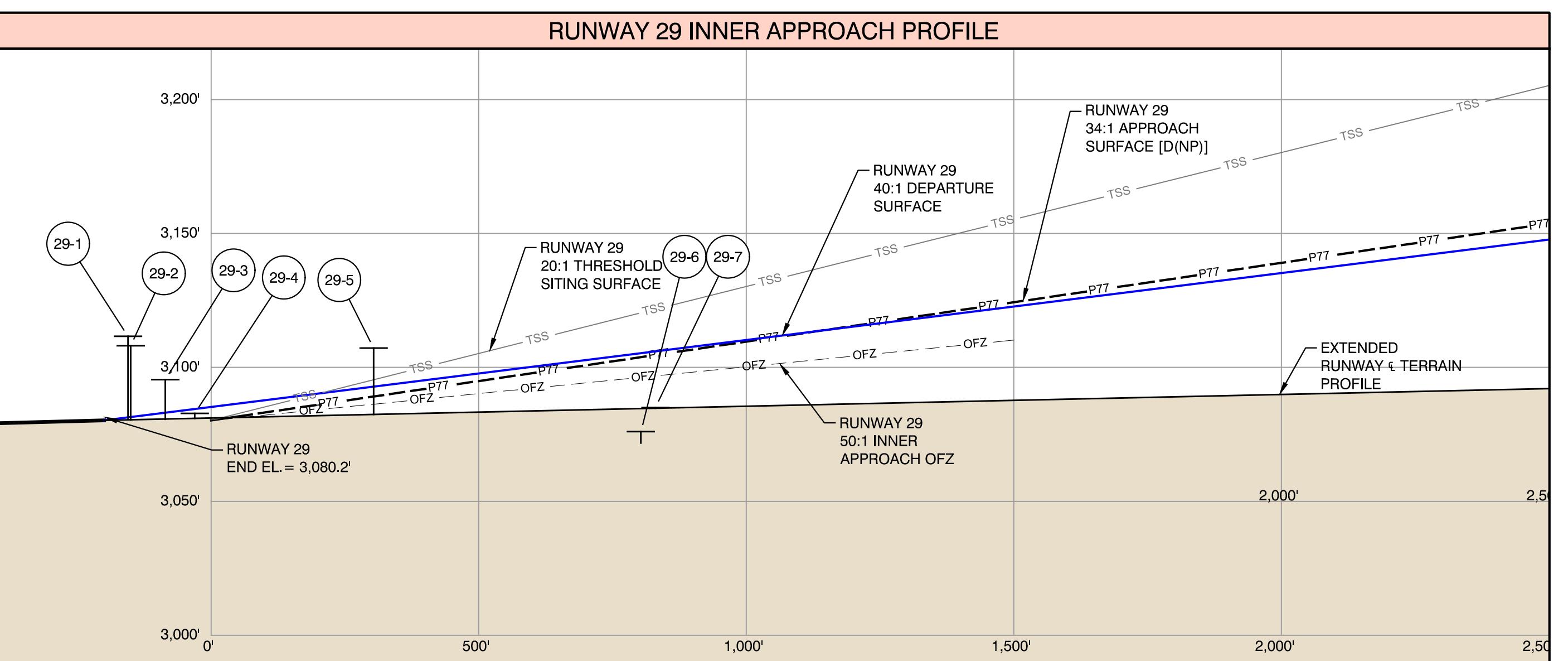
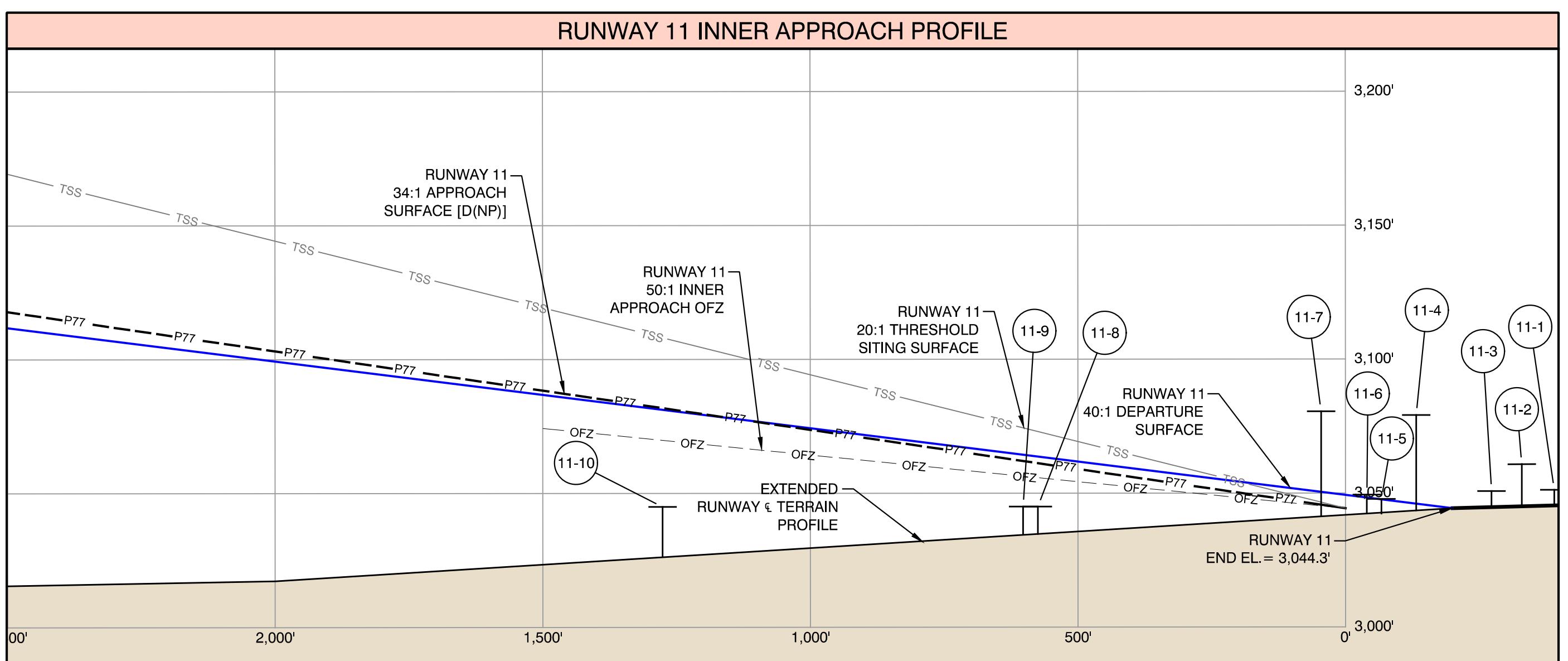
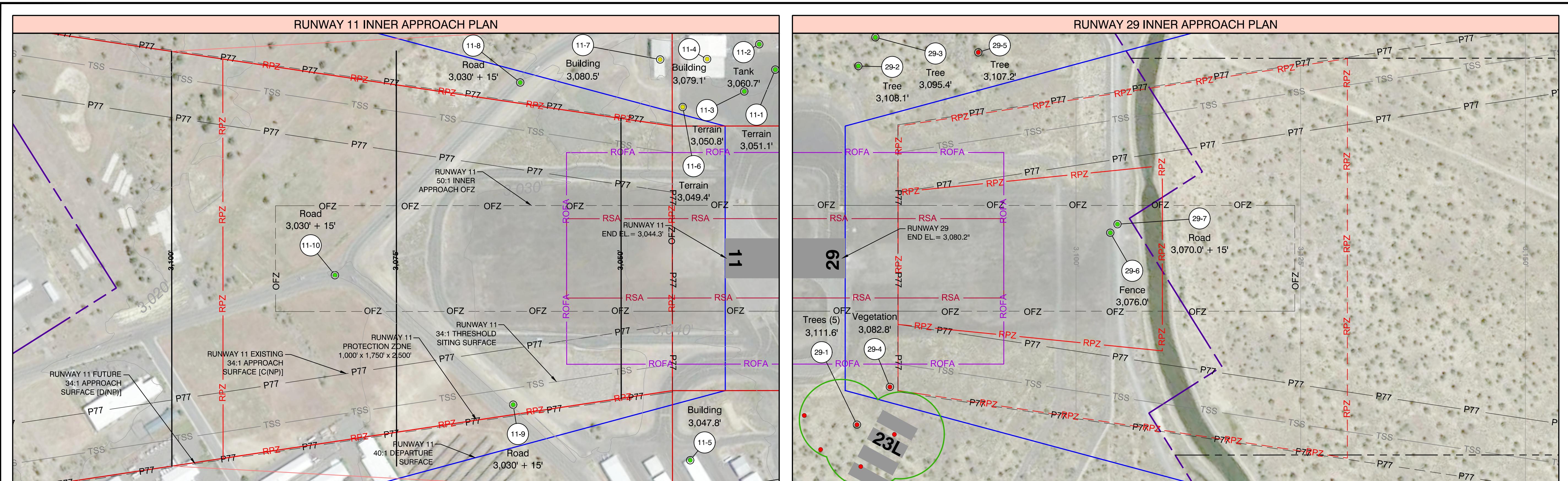
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DATE: August 2018
DESIGNED BY: BM
DRAWN BY: DL, TE
CHECKED BY: BM
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SHEET CONTENTS

INNER
APPROACH
RUNWAY 11/29

SHEET NO.

10 of 17



LEGEND: PLAN VIEW

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Ortho imagery: Quantum Spatial, August 2017.
- Airspace surfaces associated with the future runway and instrument approaches are illustrated (Runway 11/29 will change to Non-precision [D(NP)] and maintain a 34:1 Approach slope.).
- Future OFZ Surface
- Object Penetrates Part 77 Surface
- Object Within 10ft. Part 77 Surface
- Object > 10ft. Clear of Part 77 Surface
- Terrain Contours
- Group of Trees

- Trees in close proximity and similar elevations are grouped together.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.
- Per Part 77, 15 feet added to road elevations.

LEGEND: PROFILE VIEW

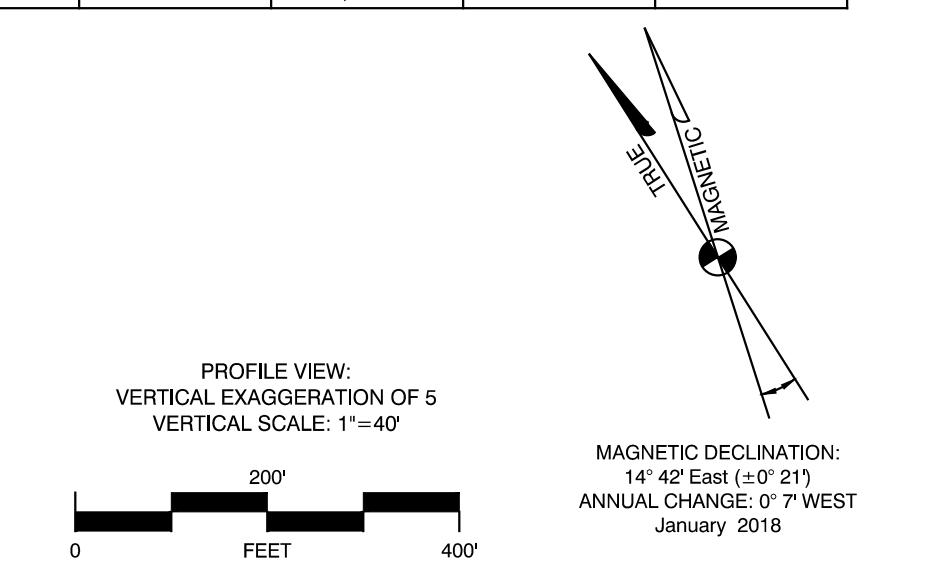
POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	34:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	PENETRATION	50:1 INNER APPROACH OFZ SURFACE ELEVATION	INNER APPROACH OFZ PENETRATION	DISPOSITION
11-1	Terrain	3,051.1'	Transitional	3,074.8'	-23.7'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-2	Tank	3,060.7"	Transitional	3,088.5'	-27.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-3	Terrain	3,050.8"	Transitional	3,063.0'	-12.2"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-4	Building	3,079.1"	Transitional	3,080.5'	-1.4"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-5	Building	3,047.8"	Transitional	3,081.9'	-34.1"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-6	Terrain	3,049.4"	Transitional	3,054.6'	-5.2"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-7	Building	3,080.5"	Transitional	3,080.6'	-0.1"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-8	Road	3,045.0"	Transitional	3,067.8"	-22.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-9	Road	3,045.0"	Approach	3,062.0"	-17.0"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-10	Road	3,045.0"	Approach	3,081.8"	-36.8"	3,108.1"	-63.1"	3,069.8"	-24.8"	No Action

RUNWAY 11 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	34:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	PENETRATION	50:1 INNER APPROACH OFZ SURFACE ELEVATION	INNER APPROACH OFZ PENETRATION	DISPOSITION
11-1	Terrain	3,051.1"	Transitional	3,074.8"	-23.7"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-2	Tank	3,060.7"	Transitional	3,088.5"	-27.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-3	Terrain	3,050.8"	Transitional	3,063.0"	-12.2"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-4	Building	3,079.1"	Transitional	3,080.5"	-1.4"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-5	Building	3,047.8"	Transitional	3,081.9"	-34.1"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-6	Terrain	3,049.4"	Transitional	3,054.6"	-5.2"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-7	Building	3,080.5"	Transitional	3,080.6"	-0.1"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-8	Road	3,045.0"	Transitional	3,067.8"	-22.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-9	Road	3,045.0"	Approach	3,062.0"	-17.0"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
11-10	Road	3,045.0"	Approach	3,081.8"	-36.8"	3,108.1"	-63.1"	3,069.8"	-24.8"	No Action

RUNWAY 29 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	34:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	PENETRATION	50:1 INNER APPROACH OFZ SURFACE ELEVATION	INNER APPROACH OFZ PENETRATION	DISPOSITION
29-1	Trees (5)	3,111.6"	Transitional	3,098.6"	13.0"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Trim/Remove	
29-2	Tree	3,108.1"	Transitional	3,112.7"	-4.6"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Monitor	
29-3	Tree	3,095.4"	Transitional	3,128.2"	-32.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
29-4	Vegetation	3,082.8"	Primary	3,080.2"	2.6"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Remove	
29-5	Tree	3,107.2"	Transitional	3,120"	-12.8"	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action	
29-6	Fence	3,076.0"	Approach	3,103.8"	-27.8"	3,120.4"	-44.3"	3,096.3"	-20.3"	No Action
29-7	Road	3,085.0"	Approach	3,104.6"	-19.6"	3,121.7"	-36.7"	3,096.8"	-11.8"	No Action





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REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond
411 SW 9th Street
Redmond, Oregon 97756

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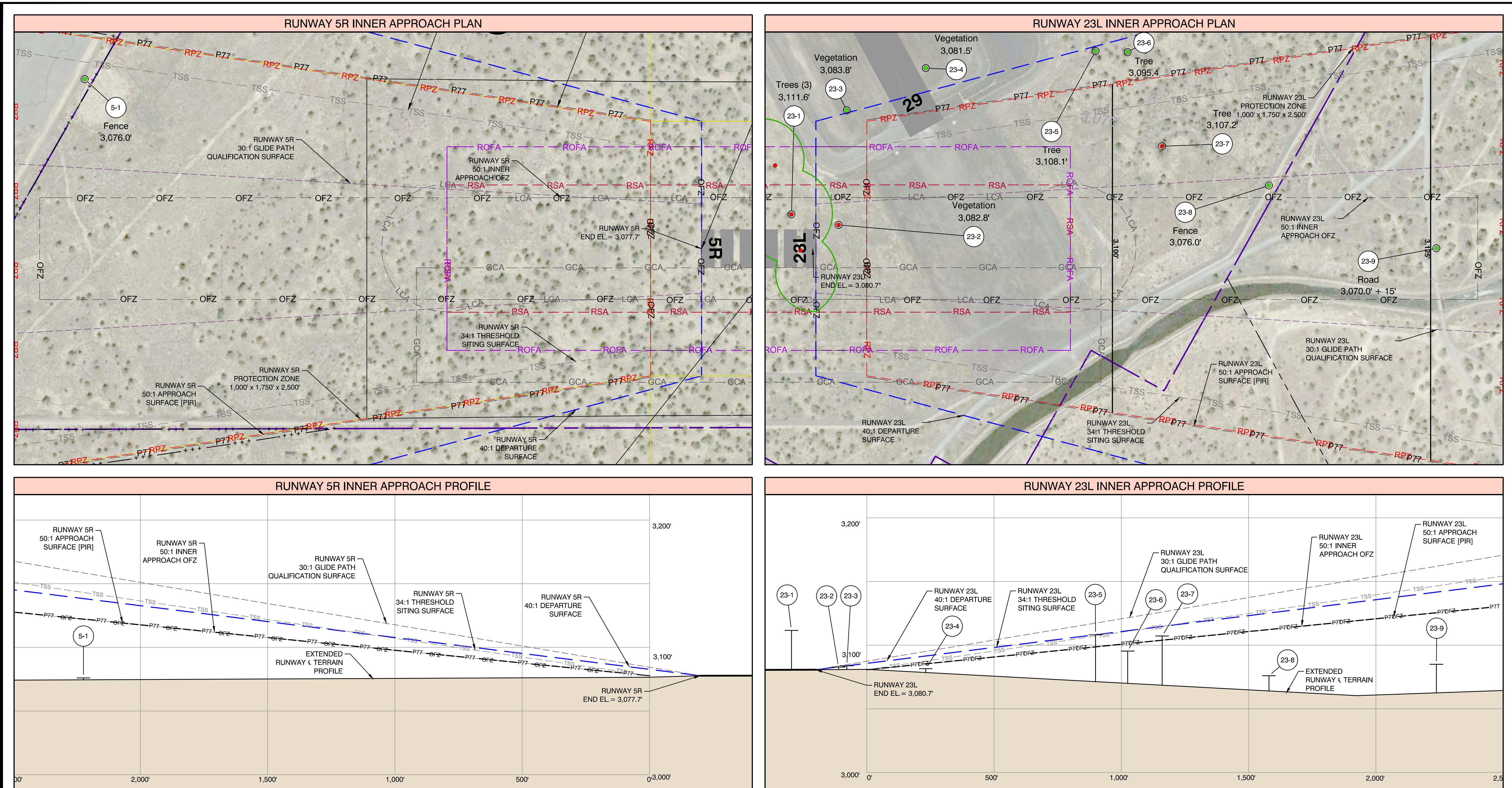
M&H NO.: 1817700-121032.01
DATE: August 2018
DESIGNED BY: BM
DRAWN BY: DL, TE
CHECKED BY: BM
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SHEET CONTENTS

INNER
APPROACH
RUNWAY 5R/23L

SHEET NO.

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LEGEND: PLAN VIEW

- Runway
- Airport Property Boundary
- Part 77 Approach Surface
- Part 77 Surface Contour
- Threshold Siting Surface (TSS)
- 30:1 Glide Path Qualification Surface
- Localizer Critical Area (LCA)
- Glideslope Critical Area (GCA)
- Runway Protection Zone (RPZ)
- Runway Safety Area (RSA)
- Runway Object Free Area (ROFA)
- Obstacle Free Zone (OFZ)
- Object Penetrates Part 77 Surface
- Object Within 10ft. Part 77 Surface
- Object > 10ft. Clear of Part 77 Surface
- Terrain Contours
- Group of Trees

LEGEND: PROFILE VIEW

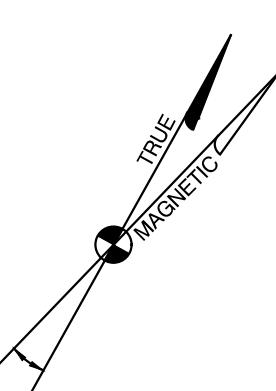
- Part 77 Approach Surface
- Threshold Siting Surface
- 40:1 Departure Surface
- 30:1 Glide Path Qualification Surface
- Obstacle Free Zone (OFZ)
- Object

RUNWAY 5R OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GLIDE PATH QUAL. SURFACE	GOS PENETRATION	50:1 INNER APPROACH OFZ PENETRATION	INNER APPROACH OFZ PENETRATION	DISPOSITION
5-1	Fence	3,076.0'	Approach	3,122.2'	-46.2'	3,143.1'	-67.1'	3,158.5'	-82.5'	3,122.2'	-46.2'	No Action

NOTES:

- Runway ends. Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Ortho imagery: Quantum Spatial, August 2017.
- Airspace surfaces associated with the ultimate (+20 years) runway and instrument approaches are illustrated.
- Trees in close proximity and similar elevations are grouped together.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.
- Per Part 77, 15 feet added to road elevations.



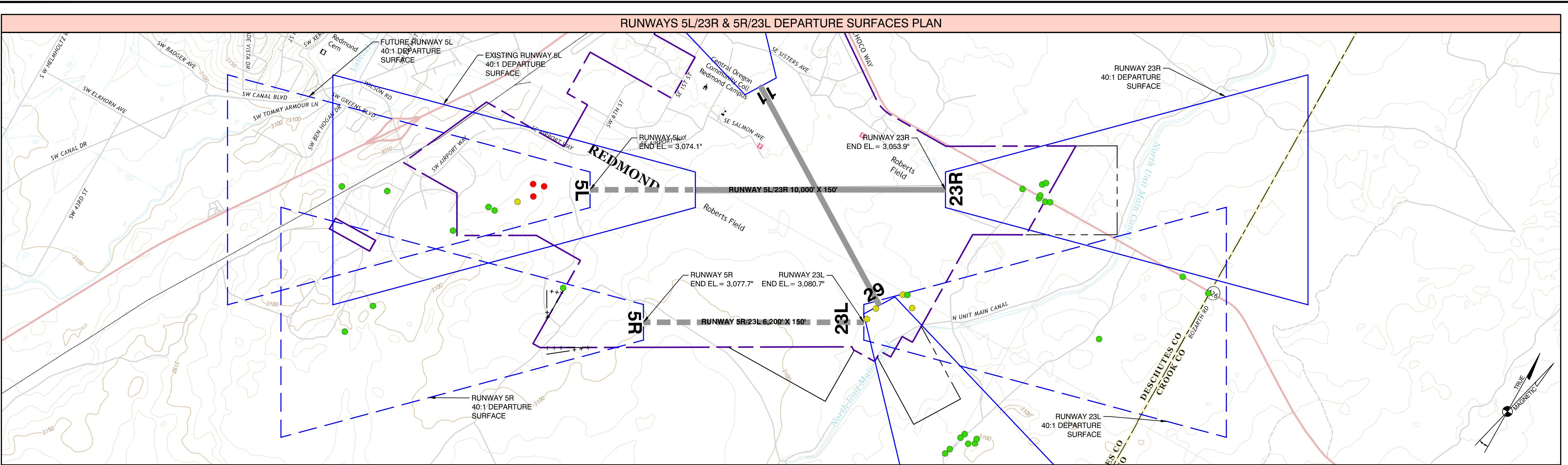
MAGNETIC DECLINATION:
14° 42' (±0° 21')
ANNUAL CHANGE 0° 7' WEST
January 2018

PROFILE VIEW:
VERTICAL EXAGGERATION OF 5
VERTICAL SCALE: 1°=40'



RUNWAY 23L OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GLIDE PATH QUAL. SURFACE	GOS PENETRATION	50:1 INNER APPROACH OFZ PENETRATION	INNER APPROACH OFZ PENETRATION	DISPOSITION
23-1	Trees (3)	3,111.6'	Primary	3,080.7'	30.9'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Remove
23-2	Vegetation	3,082.8'	Primary	3,080.7'	2.1'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Remove
23-3	Vegetation	3,083.8'	Transitional	3,123.4'	-39.6'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action
23-4	Vegetation	3,081.5'	Transitional	3,110.5'	-29.0'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action
23-5	Tree	3,108.1'	Transitional	3,120.1'	-12.0'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action
23-6	Tree	3,095.4'	Transitional	3,119.4'	-24.0'	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	Object Not Under Surface	No Action
23-7	Tree	3,107.2'	Approach	3,103.9'	3.3'	3,114.8'	-7.6'	3,126.0'	-18.8'	3,103.9'	3.3'	Trim
23-8	Fence	3,076.0'	Approach	3,112.3'	-36.3'	3,127.2'	-51.2'	3,140.0'	-64.0'	3,112.3'	-36.3'	No Action
23-9	Road	3,085.0'	Approach	3,125.5'	-40.5'	3,146.5'	-61.5'	3,162.0'	-77.0'	3,125.5'	-40.5'	No Action



The logo for Mead & Hunt consists of the word "Mead" stacked vertically above the word "Hunt". The letter "A" in "Mead" is replaced by a stylized ampersand (&). Both words are in a large, bold, black sans-serif font.

Mead and Hunt, Inc.
10 NE Cascades Parkw
Suite 100
Portland, OR 97220
phone: 503-548-1494
meadhunt.com



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REDMOND MUNICIPAL AIRPORT / ROBERTS FIELD AIRPORT LAYOUT PLAN

City of Redmond

Redmond, Oregon 97756

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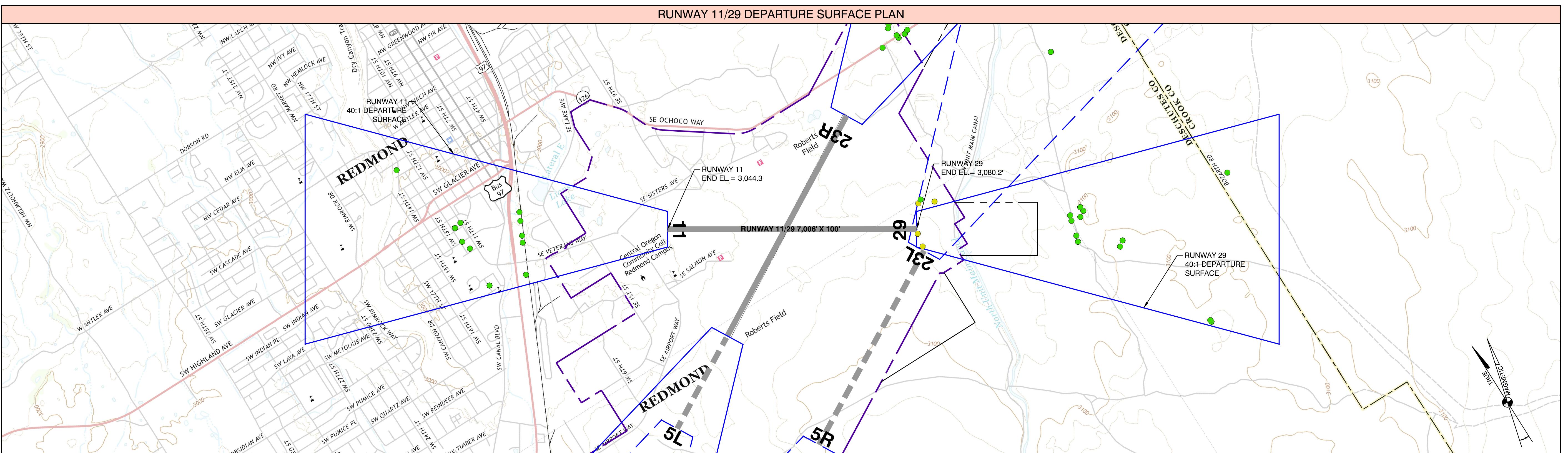
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M&H NO.: **1817700-121032.01**
DATE: **August 2018**
DESIGNED BY: **BM**
DRAWN BY: **DL, TE**
CHECKED BY: **BM**

DEPARTURE SURFACES

1



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LEGEND: PLAN VIEW

- The legend consists of eight entries, each with a colored line segment followed by its name:

 - Existing Runway (Grey solid line)
 - Future Runway/Extension (Grey dashed line)
 - Airport Property Boundary (Purple dash-dot line)
 - 40:1 Departure Surface (Blue solid line)
 - 40:1 Future Departure Surface (Blue dashed line)
 - Existing Aviation Easement (Black solid line)
 - Future Aviation Easement (Black solid line with '+' markers)
 - Terrain Contours (Orange wavy line)

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
 - Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
 - Basemap source: USGS Topographic maps.
 - For detail on departure profiles, see Part 77 profiles (Sheet 7).

DEPARTURE AGIS OBJECTS						
	DEPARTURE SURFACE					
	RUNWAY 5L	RUNWAY 23R	RUNWAY 11	RUNWAY 29	RUNWAY 5R	RUNWAY 23L
● # OBJECTS THAT PENETRATE PART 77 SURFACE	3	0	0	0	0	0
○ # OBJECTS WITHIN 10 FEET OF PART 77 SURFACE	1	0	0	2	0	4
■ # OBJECTS > 10 FEET CLEAR OF PART 77 SURFACE	5	7	11	12	3	4

Departure objects captured in the 2017 AGIS survey are represented on this table. For detail on close-in obstructions in RPZ areas and lateral transitional surface, see Inner-Approach Plans (Sheets 8.9.10, and 11).

MAGNETIC DECLINATION:
14° 42' East ($\pm 0^{\circ} 21'$)
ANNUAL CHANGE: 0° 7' WEST
January 2018



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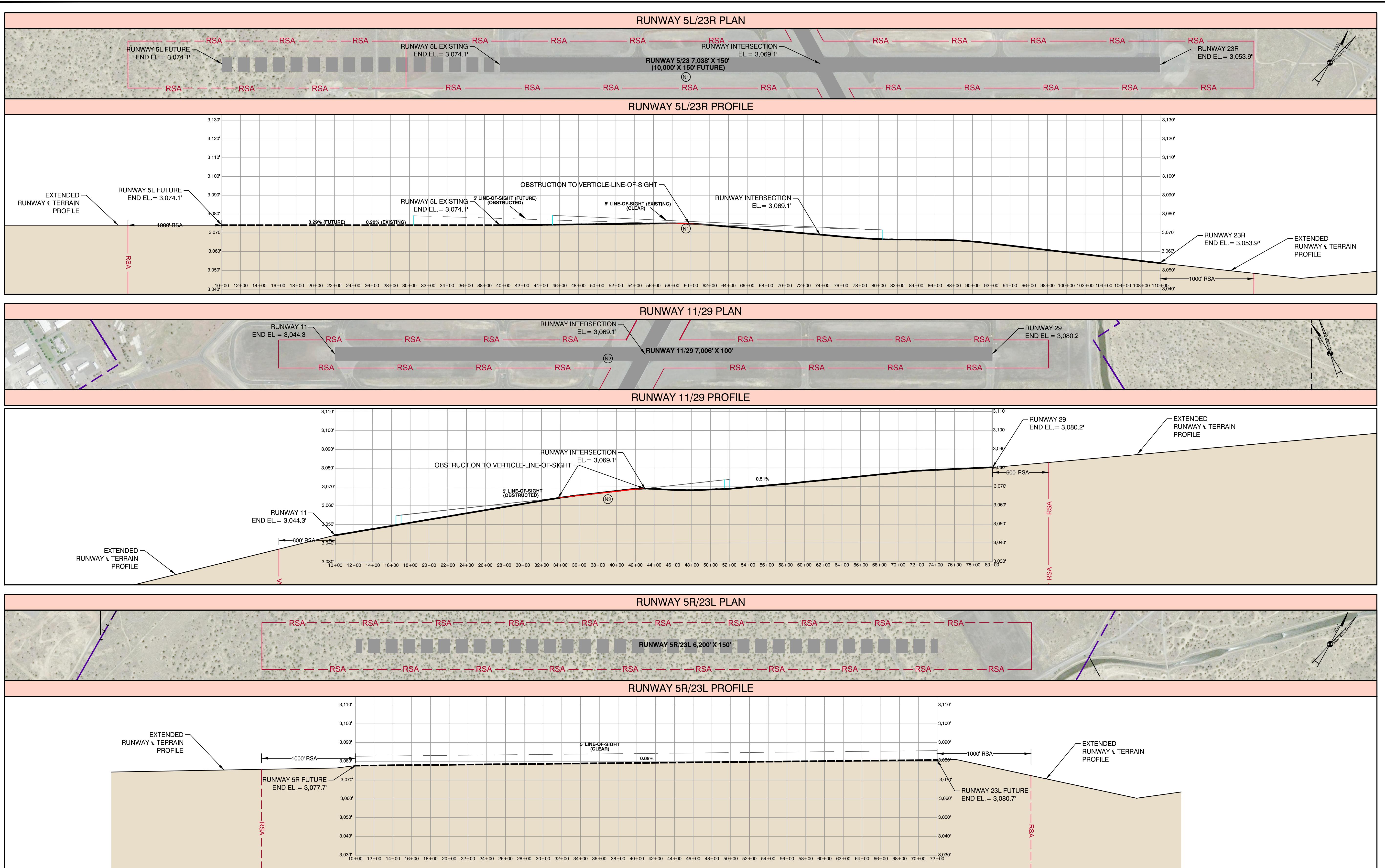
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DRAWN BY: DL, TE
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SHEET CONTENTS

RUNWAY
PROFILES

SHEET NO.

13 of 17



LEGEND: PLAN VIEW

- Existing Runway
- Future Runway/Extension
- Airport Property Boundary
- Existing Aviation Easement
- Future Aviation Easement

NOTES:

- Runway ends. Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Quantum Spatial, August 2017.
- Basemap source: Google Earth.
- As per paragraph 305 section b.(2) of AC 150/5300-13A, runways with a full parallel taxiway. Any point 5 feet (1.5 m) above the runway centerline must be mutually visible with any other point 5 feet (1.5 m) above the runway centerline that is located at a distance that is less than one half the length of the runway.

NON-STANDARD CONDITIONS	
EXISTING CONDITION	DISPOSITION
(N1) Runway 5/23 has a crest that obstructs vertical line-of-sight.	Crest obstructing Runway 5/23 will be lowered to not obstruct vertical line-of-sight during runway extension to southwest.
(N2) Runway 11/29 has a crest that obstructs vertical line-of-sight.	Crest obstructing Runway 11/29 being lowered in Fiscal Year 2018 construction project.

MAGNETIC DECLINATION:
-14° 42' East (+0° 21')
ANNUAL CHANGE: 0° 7' WEST
January 2018

PROFILE VIEW:
VERTICAL EXAGGERATION OF 20
VERTICAL SCALE: 1=25'



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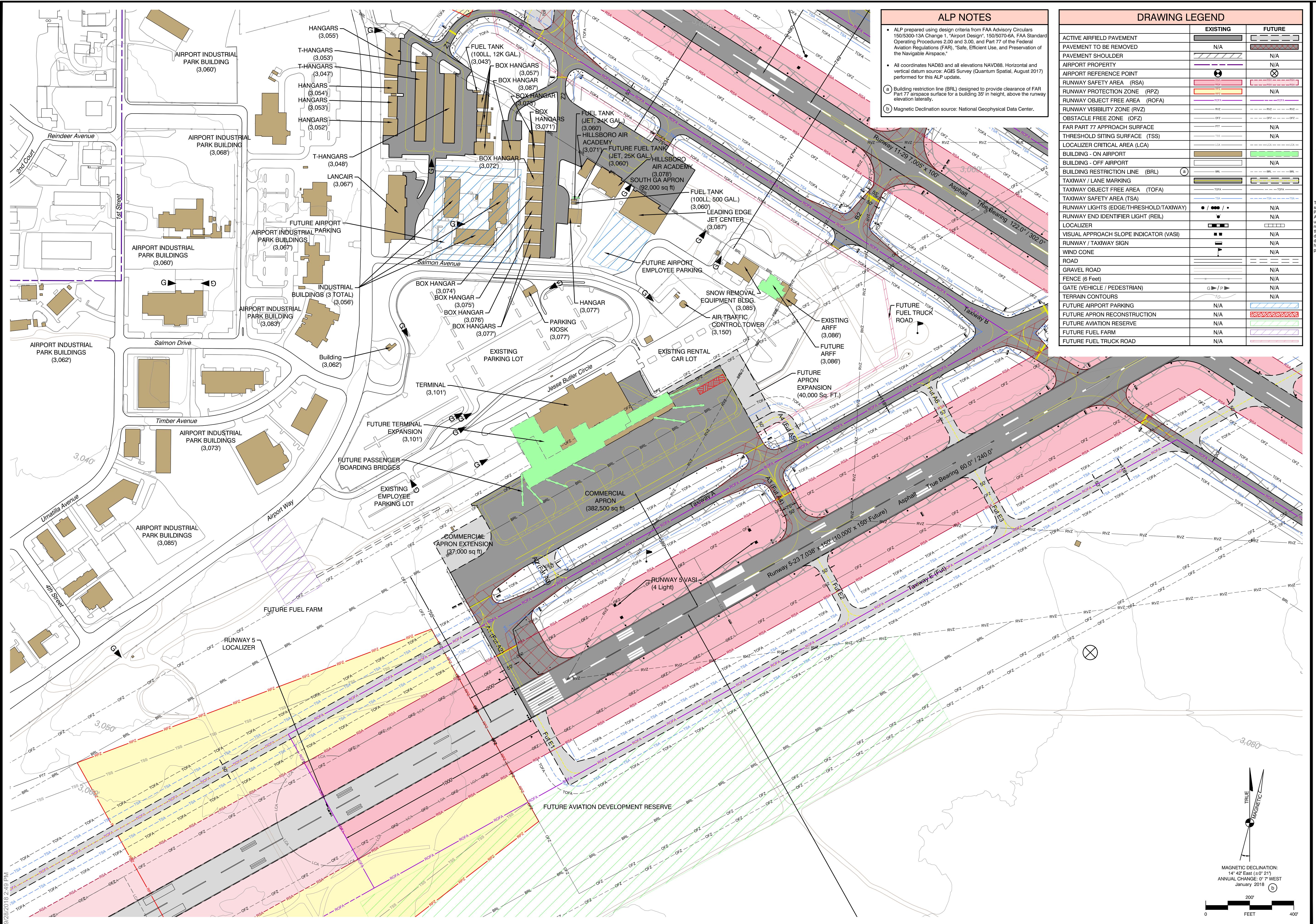
M&H NO.: 1817700-121032.01
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SHEET CONTENTS

TERMINAL AREA
PLAN

SHEET NO.

14 of 17





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Redmond, Oregon 97756

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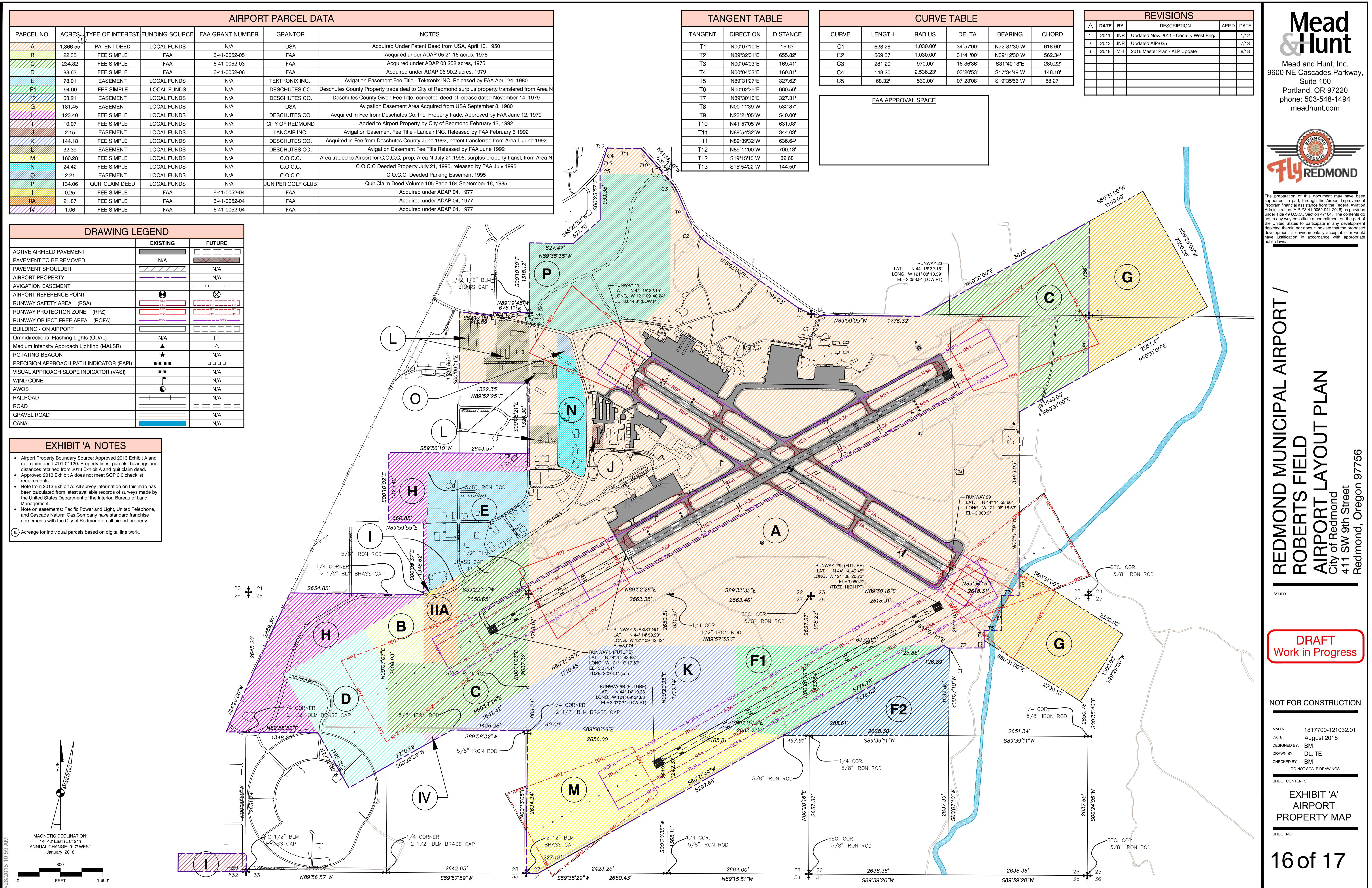
M&H NO.: 1817700-121032.01
DATE: August 2018
DESIGNED BY: BM
DRAWN BY: DL, TE
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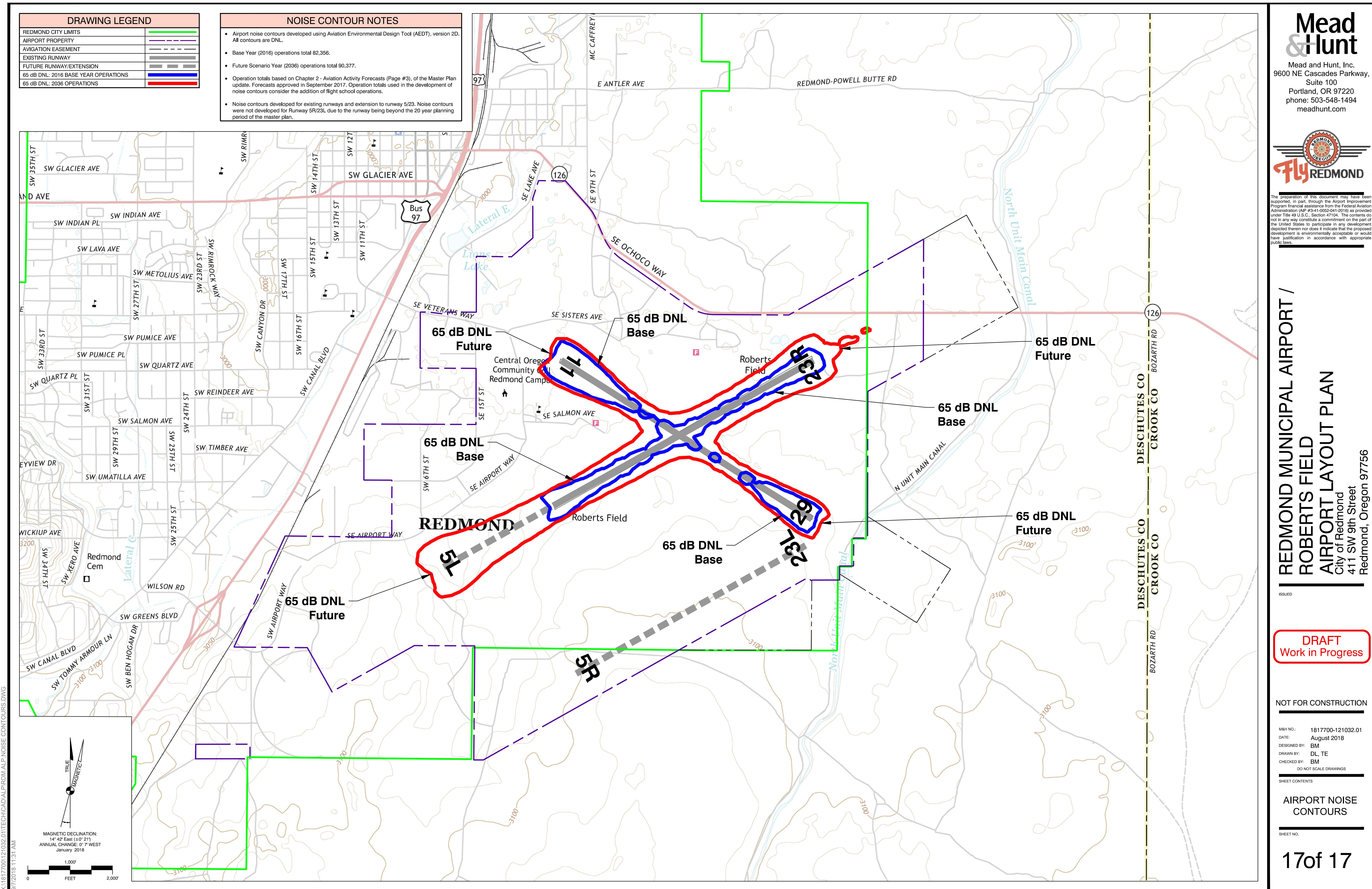
SHEET CONTENTS

**EXHIBIT 'A'
AIRPORT
PROPERTY MAP**

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Mead & Hunt
Mead and Hunt, Inc.
9600 NE Cascades Parkway,
Suite 100
Portland, OR 97220
phone: 503-548-1494
meadhunt.com



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