

LOCATION MAP



AIRPORT LAYOUT PLAN

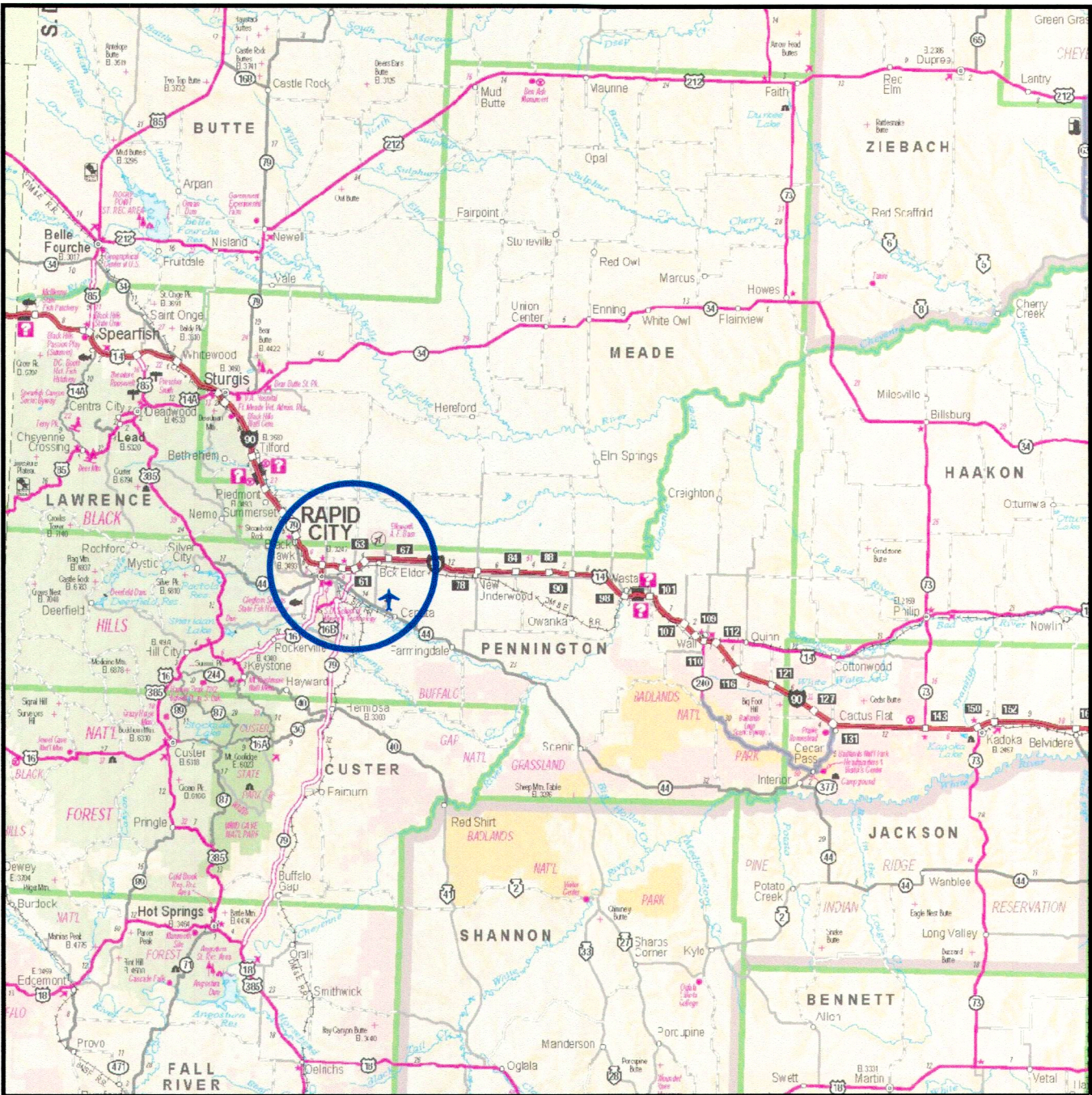
FOR

RAPID CITY
REGIONAL AIRPORT (RAP)
RAPID CITY, PENNINGTON COUNTY, SOUTH DAKOTA

CITY OF RAPID CITY (OWNER)

January 2022

VICINITY MAP



RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

TITLE SHEET

DRAFTED
MTK
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-1

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ON BEHALF OF THE CITY OF RAPID CITY SOUTH DAKOTA, THIS AIRPORT LAYOUT PLAN (ALP) WAS PREPARED BY KLJ ACCORDING TO THE APPLICABLE ADVISORY CIRCULARS AT THE TIME OF SCOPING THE PROJECT, THE CURRENT VERSION OF THE (CHECKLIST USED) ALP CHECKLIST, AND ACCURATELY DEPICTS THE PROPOSED USE OF AIRSPACE AT THE TIME OF DATA COLLECTION. THE ALP CONFORMS WITH FAA DESIGN STANDARDS, EXCEPT AS NOTED.

SDDOT

Jack Dokken
Jack Dokken
Manager
10-21-24

A.L.P. APPROVALS

FEDERAL AVIATION ADMINISTRATION

SIGNATURE: *B. P. Schuck*
NAME: *Brian P. Schuck*
TITLE: *Planner*
DATE: *2/27/2025*

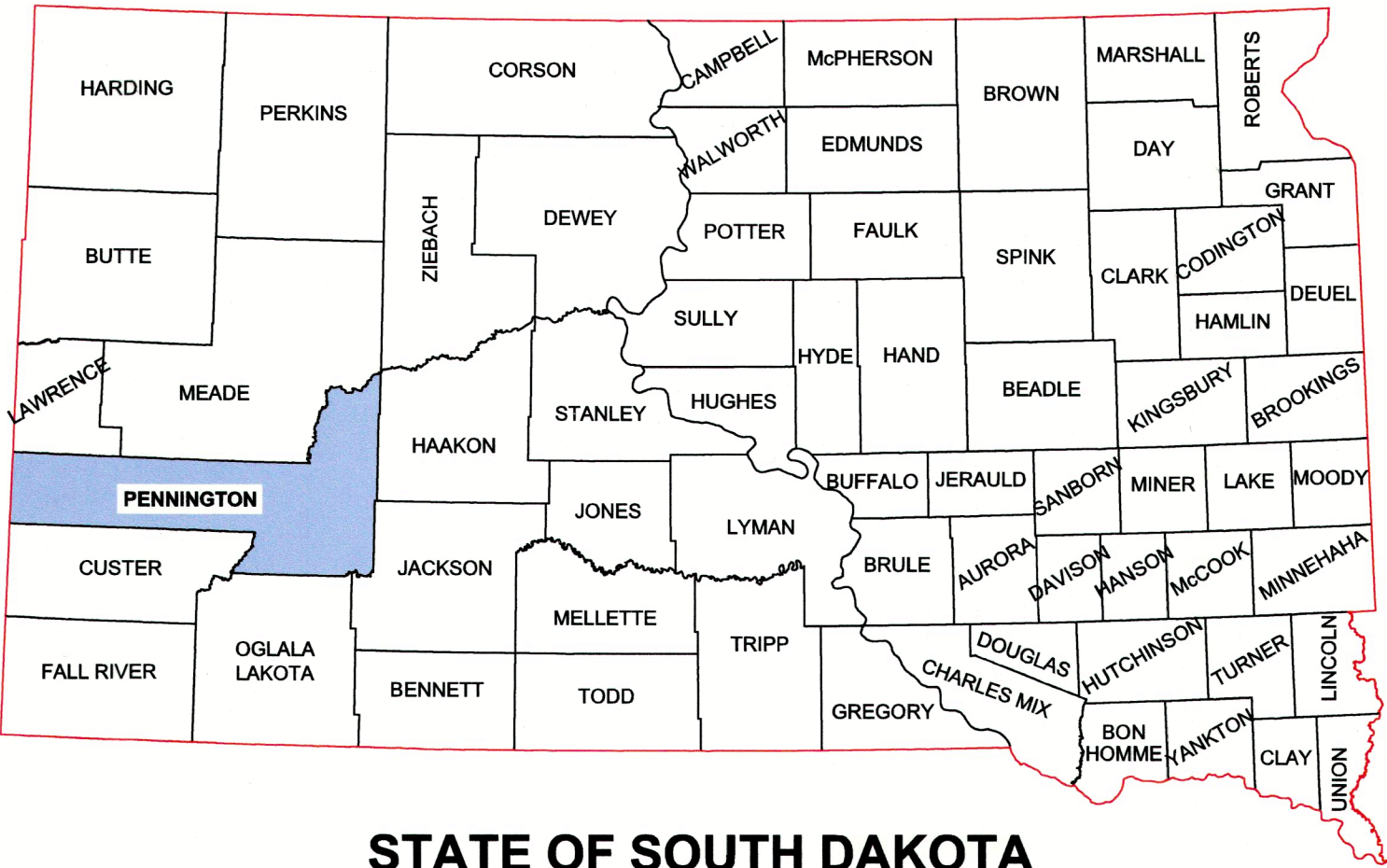
AIRSPACE APPROVAL

A.L.P. AIRSPACE APPROVAL DATE: 09/27/2024
CASE #: 2024-AGL-9363-NRA

CITY OF RAPID CITY

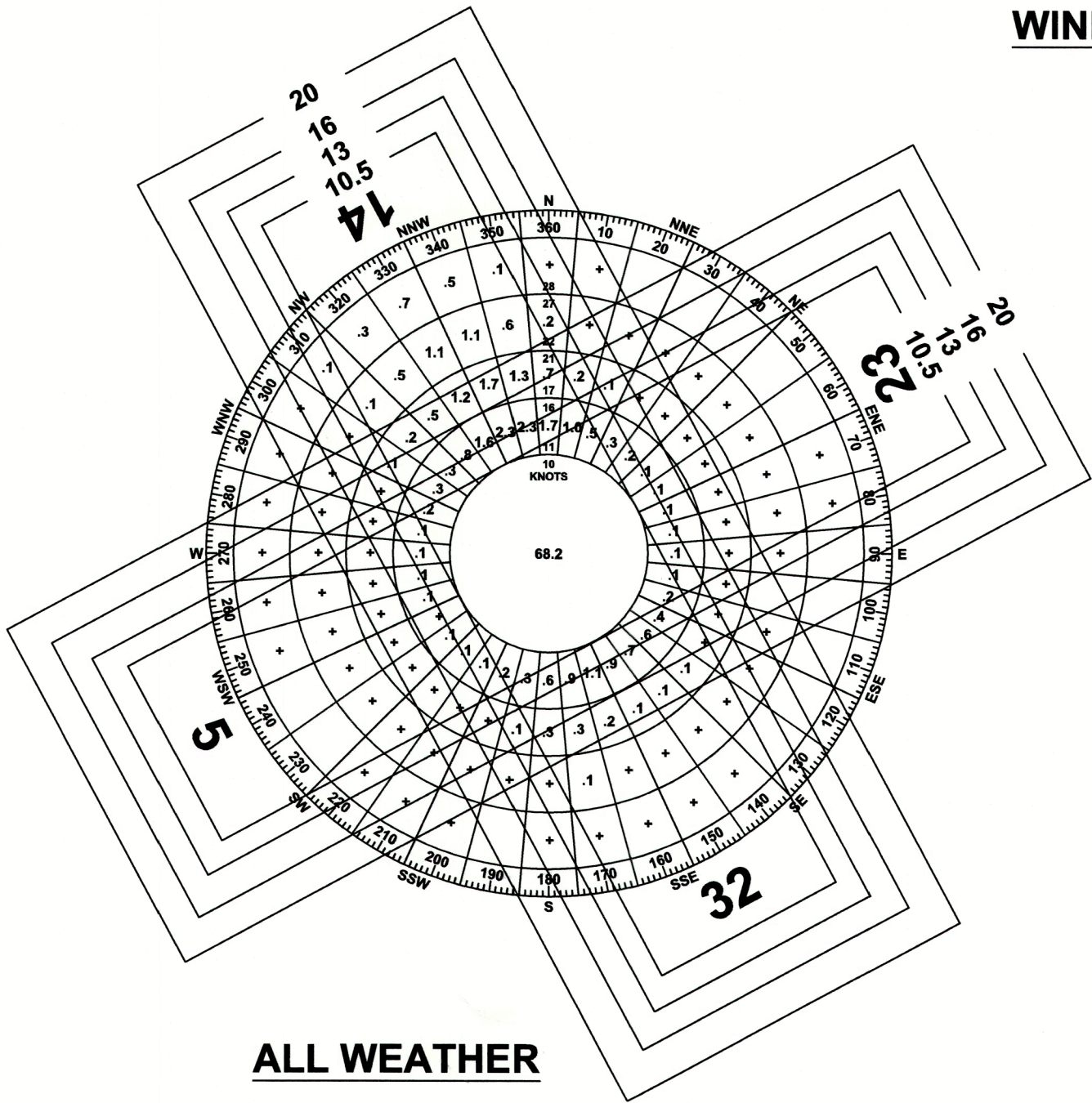
SIGNATURE: *P. Dame*
NAME: *Patrick B. Dame C.M.*
TITLE: *EXECUTIVE DIRECTOR*
DATE: 10-08-2024

Avoidance area(s) are portrayed on sheet A-4C which is held confidentially.
Site specific location information for archaeological and historic sites is protected under SDCL (South Dakota Codified Law) 1-20-21.2.

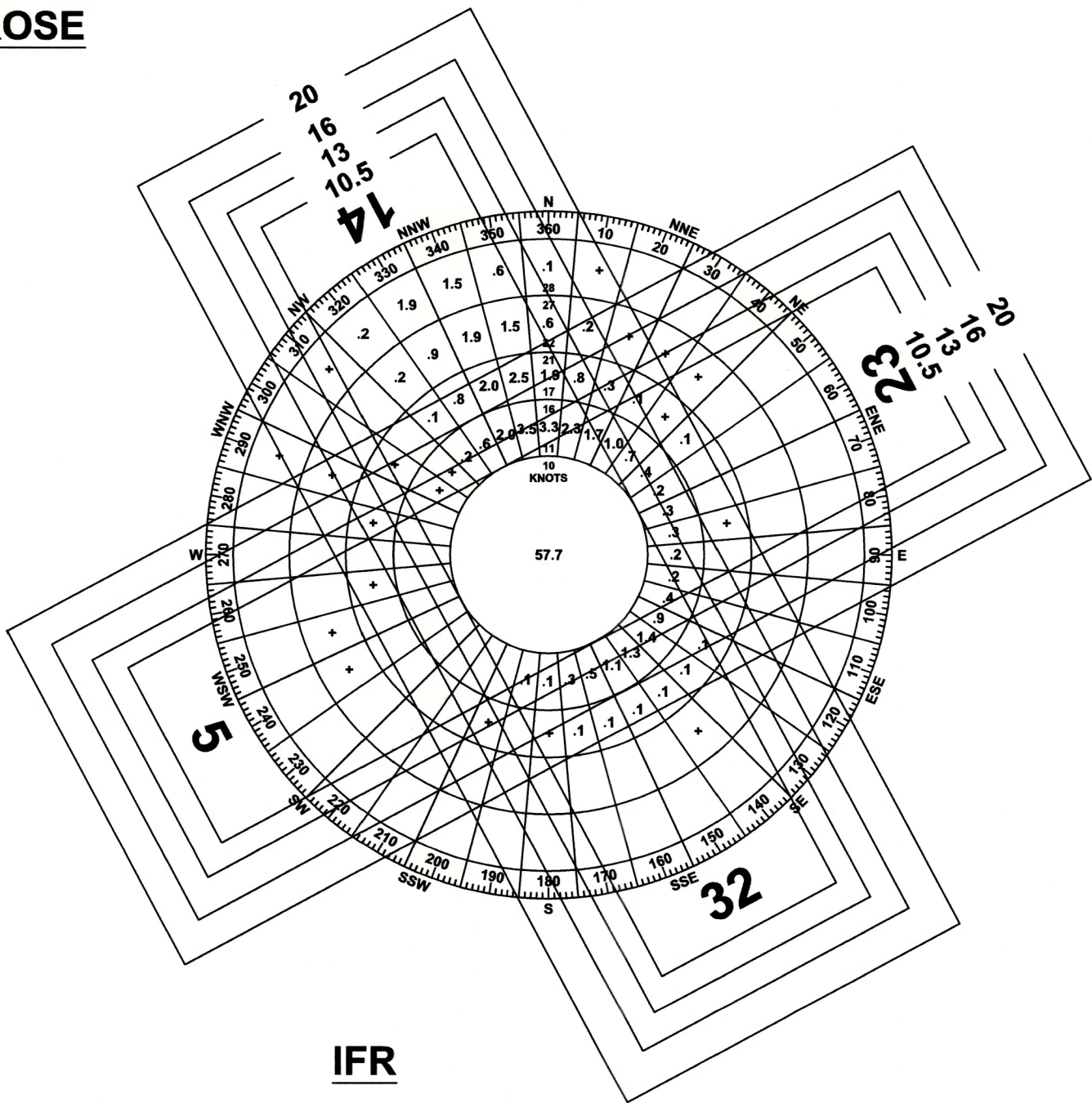


STATE OF SOUTH DAKOTA

WINDROSE



ALL WEATHER



IFR

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ALL-WEATHER WIND COVERAGE				
CONFIGURATION	CROSSWIND COMPONENT			
	10.5 KNOTS	13 KNOTS	16 KNOTS	20 KNOTS
RUNWAY 14-32	97.25%	98.92%	99.60%	99.90%
RUNWAY 5-23	72.66%	81.51%	-	-
COMBINED	98.91%	99.73%	99.60%	99.90%
SOURCE: KRAP ASOS (2010-2019, HOURLY) NATIONAL CLIMATIC DATA CENTER 87,079 TOTAL OBSERVATIONS				
INSTRUMENT FLIGHT RULES (IFR) WIND COVERAGE				
CONFIGURATION	CROSSWIND COMPONENT			
	10.5 KNOTS	13 KNOTS	16 KNOTS	20 KNOTS
RUNWAY 14-32	94.84%	98.53%	99.58%	99.95%
RUNWAY 5-23	65.73%	76.59%	-	-
COMBINED	97.89%	99.50%	99.58%	99.95%
SOURCE: KRAP ASOS (2010-2019, HOURLY) NATIONAL CLIMATIC DATA CENTER 6,254 TOTAL OBSERVATIONS IFR = VISIBILITY LOWER THAN 3 MILES OR CEILING LOWER THAN 1,000 FEET				

RUNWAY DATA TABLE									
ITEM	PRIMARY RUNWAY 14/32				CROSSWIND RUNWAY 5/23				
	EXISTING (E)		ULTIMATE (U)		EXISTING (E)		ULTIMATE (U)		
RUNWAY DESIGNATION	14	32	14	32	5	23	5	23	
RUNWAY DESIGN CODE (RDC)	C-III-5000	C-III-2400	C-III-2400	C-III-2400	B-I(S)-5000	B-I(S)-5000	B-I(S)-VIS	B-I(S)-VIS	
APPROACH REFERENCE CODE (APRC)	D-IV-1200	D-IV-1200	D-IV-1200	D-IV-1200	B-I-2400	B-I-2400	B-I-2400	B-I-2400	
	D-V-2400	D-V-2400	D-V-2400	D-V-2400	B-II-4000	B-II-4000	B-II-4000	B-II-4000	
DEPARTURE REFERENCE CODE (DPRC)	D-IV	D-IV	D-IV	D-IV	B-II	B-II	B-II	B-II	
DEPARTURE REFERENCE CODE (DPRC)	D-V	D-V	D-V	D-V					
RUNWAY DIMENSIONS	8701' x 150'		9300' x 150'		3601' x 75'		3601' x 60'		
RUNWAY LENGTH CRITERIA *	LARGE, <60,000 LBS (75% FLEET & 90% USEFUL LOAD)		LARGE, <60,000 LBS (75% FLEET & 90% USEFUL LOAD)		SMALL, <10 PX (95% FLEET)		SMALL, <10 PX (95% FLEET)		
CRITICAL AIRCRAFT (TYPE)	A319		A319		Single Piston		Single Piston		
CRITICAL AIRCRAFT (WINGSPAN)	117.4'		117.4'		49'		49'		
CRITICAL AIRCRAFT (TAIL HEIGHT)	38.6'		38.6'		20'		20'		
CRITICAL AIRCRAFT (APPROACH SPEED)	138 (Kts.)		138 (Kts.)		91 (Kts.)		91 (Kts.)		
MAXIMUM TAKEOFF WEIGHT (MTOW)	166000 (LBS.)		166000 (LBS.)		12500 (LBS.)		12500 (LBS.)		
RUNWAY END ELEVATION	3191.2'	3142.8'	3192.7'	3145.15'	3173'	3203.5'	3173'	3203.5'	
TOUCHDOWN ZONE ELEVATION (TDZE)	3191.2'	3159.8'	3192.7'	3157.65'	3199.4'	3203.5'	3199.4'	3203.5'	
RUNWAY GRADIENT	0.556%		0.511%		0.847%		0.847%		
MAX GRADE WITHIN RUNWAY LENGTH (%)	0.980%		-0.880%		1.240%		1.240%		
RUNWAY LIGHTING	HIRL		HIRL		MIRL		MIRL		
PAVEMENT TYPE	CONCRETE		CONCRETE		BITUMINOUS		BITUMINOUS		
RUNWAY CATEGORY	OTHER-THAN-UTILITY		OTHER-THAN-UTILITY		UTILITY		UTILITY		
PAVEMENT STRENGTH (WHEEL-LOAD)	300000 LBS (DTW)		300000 LBS (DTW)		12500 LBS (SW)		12500 LBS (SW)		
PAVEMENT CLASSIFICATION NUMBER (PCN)	65/R/C/W/T		65/R/C/W/T		N/A		N/A		
PAVEMENT MARKINGS	PRECISION	PRECISION	PRECISION	PRECISION	NON-PRECISION	NON-PRECISION	VISUAL	VISUAL	
SURFACE TREATMENT	GROOVED		GROOVED		NONE		NONE		
RUNWAY SAFETY AREA (RSA) **	10701' x 500'		11300' x 500'		4081' x 120'		4081' x 120'		
RUNWAY OBJECT FREE AREA (OFA)	10701' x 800'		11300' x 800'		4081' x 250'		4081' x 250'		
RUNWAY OBSTACLE FREE ZONE (OFZ)	9101' x 400'		9700' x 400'		4001' x 250'		4001' x 250'		
14 CFR PART 77 APPROACH TYPE	NON-PRECISION	PRECISION	PRECISION	PRECISION	NON-PRECISION	NON-PRECISION	VISUAL	VISUAL	
14 CFR PART 77 APPROACH SLOPE	34:1	50:1/40:1	50:1/40:1	50:1/40:1	20:1	20:1	20:1	20:1	
14 CFR PART 77 APPROACH DIMENSIONS	1000 X 3500 X 10000	1000 X 16000 X 50000	1000 X 16000 X 50000	1000 X 16000 X 50000	500 X 2000 X 5000	500 X 2000 X 5000	250 X 1250 X 5000	250 X 1250 X 5000	
VISIBILITY MINIMUMS	1 MILE	1/2 MILE	1/2 MILE	1/2 MILE	1 MILE	1 MILE	VISUAL	VISUAL	
THRESHOLD SITING SURFACE (TSS) CATEGORY	4	5	5	5	4	4	2	2	
THRESHOLD SITING SURFACE (TSS) SLOPE	20:1	34:1	34:1	34:1	20:1	20:1	20:1	20:1	
THRESHOLD SITING SURFACE (TSS) DIMENSIONS	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 800' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 800' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 800' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS 200' FROM THRESHOLD, 400' X 3400' X 10000'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	STARTS AT THRESHOLD, 250' X 700' X 2250' X 2750'	
GLIDEPATH QUALIFICATION SURFACE (GQS)	30:1	30:1	30:1	30:1	30:1	30:1	NONE	NONE	
GLIDEPATH QUALIFICATION SURFACE (GQS) DIMENSIONS	350' X 1520' X 10000'	350' X 1520' X 10000'	350' X 1520' X 10000'	350' X 1520' X 10000'	275' X 1520' X 10000'	275' X 1520' X 10000'	NONE	NONE	
DEPARTURE SURFACE	40:1	40:1	40:1	40:1	40:1	40:1	NONE	NONE	
DEPARTURE SURFACE DIMENSIONS	1000' X 7512' X 12152'	1000' X 7512' X 12152'	1000' X 7512' X 12152'	1000' X 7512' X 12152'	1000' X 7512' X 12152'	1000' X 7512' X 12152'	NONE	NONE	
AERONAUTICAL SURVEY-TYPE REQUIRED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	VERTICALLY-GUIDED	-	-	
RUNWAY ORIENTATION (TRUE)	152.1°	332.1°	152.1°	332.1°	61.5°	241.5°	61.5°	241.5°	
MAGNETIC VARIATION (2010)	8° (E)	8° (E)	8° (E)	8° (E)	8° (E)	8° (E)	8° (E)	8° (E)	
RUNWAY ORIENTATION (MAGNETIC)	144.1°	324.1°	144.1°	324.1°	53.5°	233.5°	53.5°	233.5°	
VISUAL AND INSTRUMENT NAVAIDS (NAVAIDS)	PAPI, REIL	PAPI, MALSR, GS, LOC	PAPI, MALSR	PAPI, MALSR, GS, LOC	PAPI	PAPI	PAPI	PAPI	
DISPLACED THRESHOLD	None	None	None	None	None	None	None	None	
TAKEOFF RUNWAY AVAILABLE (TORA)	8701'	8701'	9300'	9300'	3601'	3601'	3601'	3601'	
TAKEOFF DISTANCE AVAILABLE (TODA)	8701'	8701'	9300'	9300'	3601'	3601'	3601'	3601'	
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	8701'	8701'	9300'	9300'	3601'	3601'	3601'	3601'	
LANDING DISTANCE AVAILABLE (LDA)	8701'	8701'	9300'	9300'	3601'	3601'	3601'	3601'	
RPZ DIMENSIONS - APPROACH	500' X 1010' X 1700'	1000' X 1750' X 2500'	1000' X 1750' X 2500'	1000' X 1750' X 2500'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	
RPZ DIMENSIONS - DEPARTURE	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	500' X 1010' X 1700'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	250' X 450' X 1000'	

NOTE: RUNWAY LENGTH CALCULATIONS FOR 14-32 WERE BASED ON BUSINESS JET ACTIVITY WHICH HAS GREATER REQUIREMENTS THAN THE CRITICAL DESIGN AIRCRAFT.

*NOTE: RUNWAY 14/32 WILL ONLY BE CONSTRUCTED TO 8,700' X 150'. THE THRESHOLDS AND SAFETY SURFACES ARE BEING PRESERVED FOR A 9,300' RUNWAY TO ACCOMMODATE THE MAXIMUM THRESHOLD POINTS FOR BOTH THE 14 AND 32 END. THIS IS BECAUSE A RUNWAY PROTECTION ZONE (RPZ) ANALYSIS IS EXPECTED TO BE REQUIRED TO ALLOW THE RUNWAY 14 END TO STAY AT THE CURRENT POINT, BUT THE RUNWAY MAY BE REQUIRED TO BE RELOCATED AS MUCH AS 600 FEET TO THE SOUTHEAST.

AIRPORT DATA TABLE		
ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE (ARC)	C-III	C-III
AIRPORT OWNERSHIP	PUBLIC	PUBLIC
NPIAS SERVICE LEVEL	COMMERCIAL SERVICE - PRIMARY	COMMERCIAL SERVICE - PRIMARY
NPIAS ASSET CLASSIFICATION	-	-
STATE SYSTEM PLAN SERVICE LEVEL	Commercial	Commercial
AIRPORT ELEVATION (MSL)	3203.5'	3203.5'
AIRPORT REFERENCE POINT (ARP)	(N) 44° 02' 43.183"	(N) 44° 02' 42.8"
	(W) 103° 03' 26.531"	(W) 103° 03' 20.32"
MEAN MAX TEMPERATURE (MONTH)	87.1° (JUL.)	
AIRPORT NAVAIDS (FAA-OWNED)	ASOS, ILS, VORTAC, DME	ASOS, ILS, VORTAC, DME
AIRPORT NAVAIDS (SPONSOR-OWNED)	Airport Beacon, Lighted Windcone	Airport Beacon, Lighted Windcone
MISCELLANEOUS FACILITIES	-	-
FAA MAGNETIC VARIATION OF RECORD	8° (E)	8° (E)
FAA MAGNETIC VARIATION DATE	2010	2010

MODIFICATION TO DESIGN STANDARDS				
APPROVAL DATE	AIRSPACE CASE #	LOCATION	STANDARD MODIFIED	DESCRIPTION
NONE REQUIRED				

COORDINATE SUMMARY TABLE							
Point	Elevation	Latitude (DD-MM-SS)		Longitude (DD-MM-SS)			
ARP (E)		N 44 °	02 "	43.180 "	W 103 °	03 "	26.530 "
ARP (U)		N 44 °	02 "	42.800 "	W 103 °	03 "	20.320 "
Runway Intersection (E)	3177.8	N 44 °	02 "	55.825 "	W 103 °	03 "	40.688 "
Runway Intersection (U)	3179.3	N 44 °	02 "	58.389 "	W 103 °	03 "	34.049 "
Rwy 14 End (E)	3191.2	N 44 °	03 "	13.784 "	W 103 °	03 "	54.024 "
Rwy 14 TDZE (E)	3191.2	N 44 °	03 "	13.784 "	W 103 °	03 "	54.024 "
Rwy 14 End (U)	3192.7	N 44 °	03 "	16.348 "	W 103 °	03 "	47.385 "
Rwy 14 TDZE (U)	3192.7	N 44 °	03 "	16.348 "	W 103 °	03 "	47.385 "
Rwy 32 End (E)	3142.8	N 44 °	01 "	58.050 "	W 103 °	02 "	57.800 "
Rwy 32 TDZE (E)	3159.8	N 44 °	02 "	24.170 "	W 103 °	03 "	17.186 "
Rwy 32 End (U)	3145.2	N 44 °	01 "	55.379 "	W 103 °	02 "	47.277 "
Rwy 32 TDZE (U)	3157.7	N 44 °	02 "	21.499 "	W 103 °	02 "	06.662 "
Rwy 5 End (E & U)	3173.0	N 44 °	02 "	52.323 "	W 103 °	03 "	49.755 "
Rwy 5 TDZE (E & U)	3199.4	N 44 °	03 "	06.309 "	W 103 °	03 "	13.541 "
Rwy 23 End (E & U)	3203.5	N 44 °	03 "	09.106 "	W 103 °	03 "	06.297 "
Rwy 23 TDZE (E & U)	3203.5	N 44 °	03 "	09.106 "	W 103 °	03 "	06.297 "
TDZE = Touchdown Zone Elevation ARP = Airport Reference Point APT ELEV = 3203.5							

TAXIWAY DATA TABLE		
	EXISTING	ULTIMATE
HIGHEST TAXIWAY DESIGN GROUP (TDG)	5	4
TAXIWAY WIDTH	75'	50'
TAXIWAY SAFETY AREA WIDTH	118'	118'
TAXIWAY OBJECT FREE AREA WIDTH	186'	186'
TAXILANE WIDTH	75'	50'
TAXILANE OBJECT FREE AREA WIDTH	162'	162'
TAXIWAY LIGHTING	MITL	MITL
TAXILANE LIGHTING	NONE	MITL

NOTES:

- DATA USED WITHIN THIS AIRPORT LAYOUT PLAN SET IS BASED ON:
 - AERONAUTICAL SURVEY (TOPOGRAPHIC) COMPLETED BY KLJ ON FEBRUARY 11, 2015.
 - AERONAUTICAL SURVEY (AERIAL) FLOWN OCTOBER 15, 2014 BY FUGRO (INCLUDES CONTOUR DATA).
 - USGS NATIONAL ELEVATION DATASET AT 1/3 ARC SECOND.
 - NOAA NATIONAL FLIGHT DATA CENTER DIGITAL OBSTACLE FILE FROM 10/31/2021.
 - QUADRANGLE MAPS FROM USGS.(DATA IS ONLY AS ACCURATE AS THE SOURCES LISTED. ANY TOWERS, STRUCTURES, OR OBJECTS CONSTRUCTED AFTER THESE DATES ARE NOT REPRESENTED IN THIS AIRPORT LAYOUT PLAN SET.)
- HORIZONTAL DATUM = (GRID) STATE PLANE, NAD 83/2011, SD SOUTH - FIPS 4002, U.S. SURVEY FEET
- VERTICAL DATUM = VERTICAL DATUM = NAVD 88, U.S. SURVEY FEET
- LATITUDE & LONGITUDE CALCULATED USING CORPSCON VERSION 6.0.1.
- BASED ON AC 150/5300-13A CHANGE 1; ENGINEERING BRIEF 99A

Rev.	Date	Description



RAPID CITY REGIONAL AIRPORT

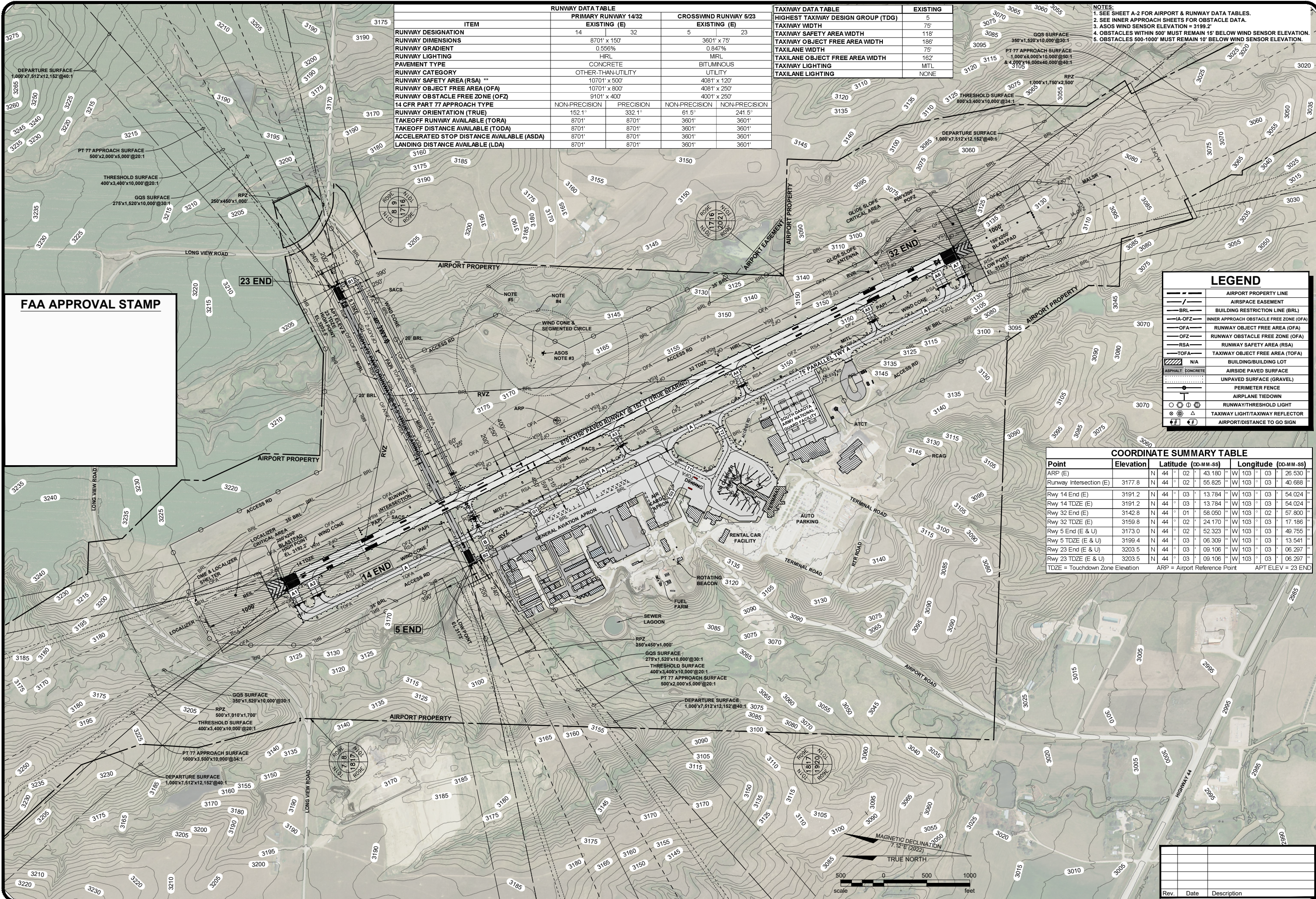
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

AIRPORT DATA SHEET

DRAFTED
MTK
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-2



FAA APPROVAL STAMP

ITEM	PRIMARY RUNWAY 14/32		CROSSWIND RUNWAY 5/23	
	EXISTING (E)		EXISTING (E)	
RUNWAY DESIGNATION	14	32	5	23
RUNWAY DIMENSIONS	8701' x 150'		3601' x 75'	
RUNWAY GRADIENT	0.556%		0.847%	
RUNWAY LIGHTING	HIRL		MIRL	
PAVEMENT TYPE	CONCRETE		BITUMINOUS	
RUNWAY CATEGORY	OTHER-THAN-UTILITY		UTILITY	
RUNWAY SAFETY AREA (RSA) **	10701' x 500'		4081' x 120'	
RUNWAY OBJECT FREE AREA (OFA)	10701' x 800'		4081' x 250'	
RUNWAY OBSTACLE FREE ZONE (OFZ)	9101' x 400'		4001' x 250'	
14 CFR PART 77 APPROACH TYPE	NON-PRECISION	PRECISION	NON-PRECISION	NON-PRECISION
RUNWAY ORIENTATION (TRUE)	152.1°	332.1°	61.5°	241.5°
TAKEOFF RUNWAY AVAILABLE (TORA)	8701'	8701'	3601'	3601'
TAKEOFF DISTANCE AVAILABLE (TODA)	8701'	8701'	3601'	3601'
ACCELERATED STOP DISTANCE AVAILABLE (ASDA)	8701'	8701'	3601'	3601'
LANDING DISTANCE AVAILABLE (LDA)	8701'	8701'	3601'	3601'

TAXIWAY DATA TABLE	
HIGHEST TAXIWAY DESIGN GROUP (TDG)	5
TAXIWAY WIDTH	75'
TAXIWAY SAFETY AREA WIDTH	118'
TAXIWAY OBJECT FREE AREA WIDTH	186'
TAXIWAY WIDTH	75'
TAXIWAY OBJECT FREE AREA WIDTH	162'
TAXIWAY LIGHTING	MITL
TAXIWAY LIGHTING	NONE

- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. ASOS WIND SENSOR ELEVATION = 3199.2'
4. OBSTACLES WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR ELEVATION.
5. OBSTACLES 500-1000' MUST REMAIN 10' BELOW WIND SENSOR ELEVATION.

LEGEND	
---	AIRPORT PROPERTY LINE
---	AIRSPACE EASEMENT
---	BUILDING RESTRICTION LINE (BRL)
---	INNER APPROACH OBSTACLE FREE ZONE (OFA)
---	RUNWAY OBJECT FREE AREA (OFA)
---	OFZ
---	RUNWAY OBSTACLE FREE ZONE (OFA)
---	RSA
---	RUNWAY SAFETY AREA (RSA)
---	TOFA
---	TAXIWAY OBJECT FREE AREA (TOFA)
---	N/A
---	BUILDING/BUILDING LOT
---	AIRSIDE PAVED SURFACE
---	UNPAVED SURFACE (GRAVEL)
---	PERIMETER FENCE
---	AIRPLANE TIEDOWN
---	RUNWAY/THRESHOLD LIGHT
---	TAXIWAY LIGHT/TAXIWAY REFLECTOR
---	AIRPORT/DISTANCE TO GO SIGN

COORDINATE SUMMARY TABLE				
Point	Elevation	Latitude (DD-MM-SS)	Longitude (DD-MM-SS)	
ARP (E)		N 44 ° 02 ' 43.180 "	W 103 ° 03 ' 26.530 "	
Runway Intersection (E)	3177.8	N 44 ° 02 ' 55.825 "	W 103 ° 03 ' 40.688 "	
Rwy 14 End (E)	3191.2	N 44 ° 03 ' 13.784 "	W 103 ° 03 ' 54.024 "	
Rwy 14 TDZE (E)	3191.2	N 44 ° 03 ' 13.784 "	W 103 ° 03 ' 54.024 "	
Rwy 32 End (E)	3142.8	N 44 ° 01 ' 58.050 "	W 103 ° 02 ' 57.800 "	
Rwy 32 TDZE (E)	3159.8	N 44 ° 02 ' 24.170 "	W 103 ° 03 ' 17.186 "	
Rwy 5 End (E & U)	3173.0	N 44 ° 02 ' 52.323 "	W 103 ° 03 ' 49.755 "	
Rwy 5 TDZE (E & U)	3199.4	N 44 ° 03 ' 06.309 "	W 103 ° 03 ' 13.541 "	
Rwy 23 End (E & U)	3203.5	N 44 ° 03 ' 09.106 "	W 103 ° 03 ' 06.297 "	
Rwy 23 TDZE (E & U)	3203.5	N 44 ° 03 ' 09.106 "	W 103 ° 03 ' 06.297 "	
TDZE = Touchdown Zone Elevation ARP = Airport Reference Point APT ELEV = 23 END				

RAPID CITY REGIONAL AIRPORT

CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

AIRPORT LAYOUT PLAN DRAWING
(EXISTING)

DRAFTED
MTK
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KLP
PROJECT NUMBER
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SHEET
A-3

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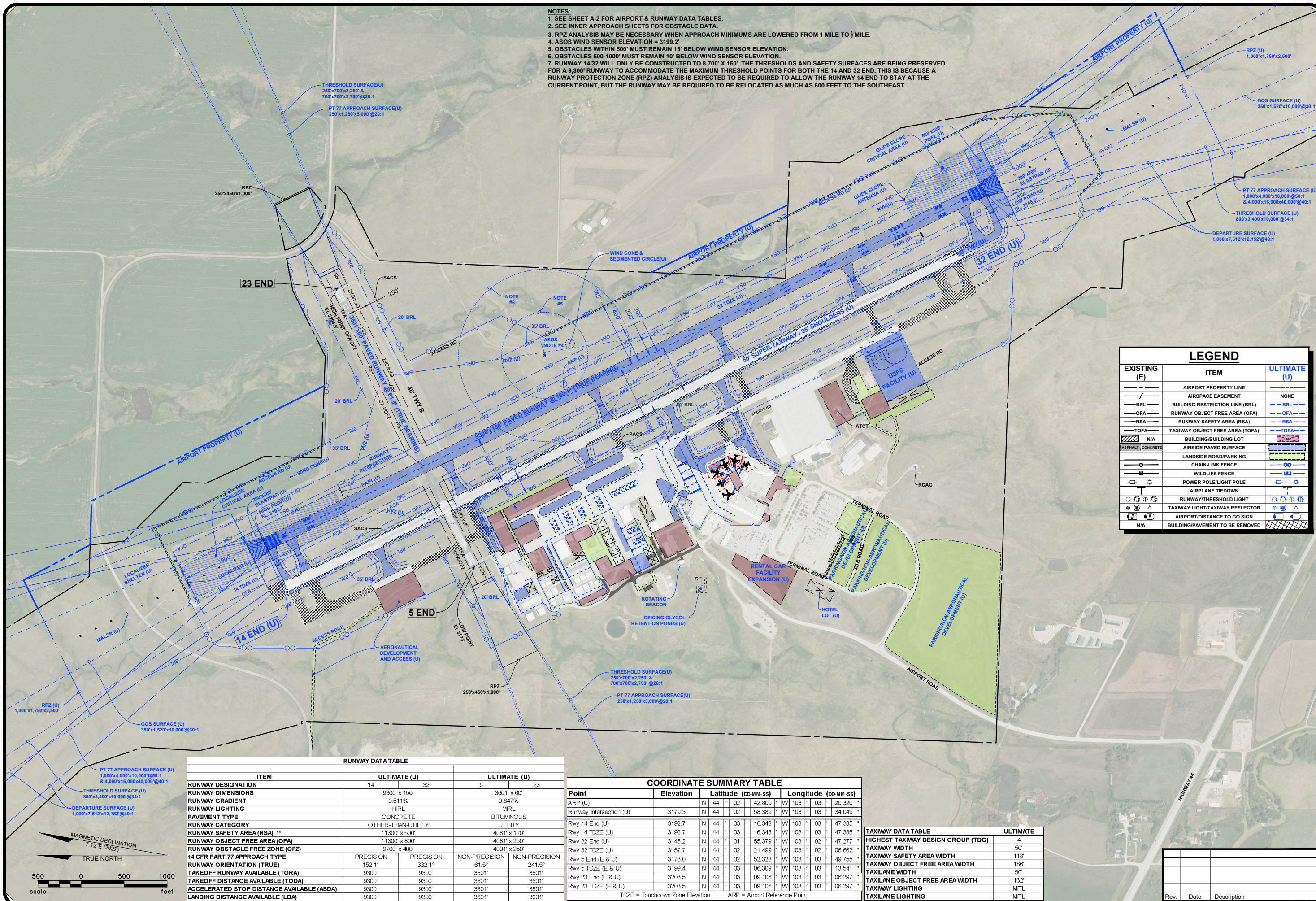


**AIRPORT LAYOUT PLAN DRAWING
(ULTIMATE)**

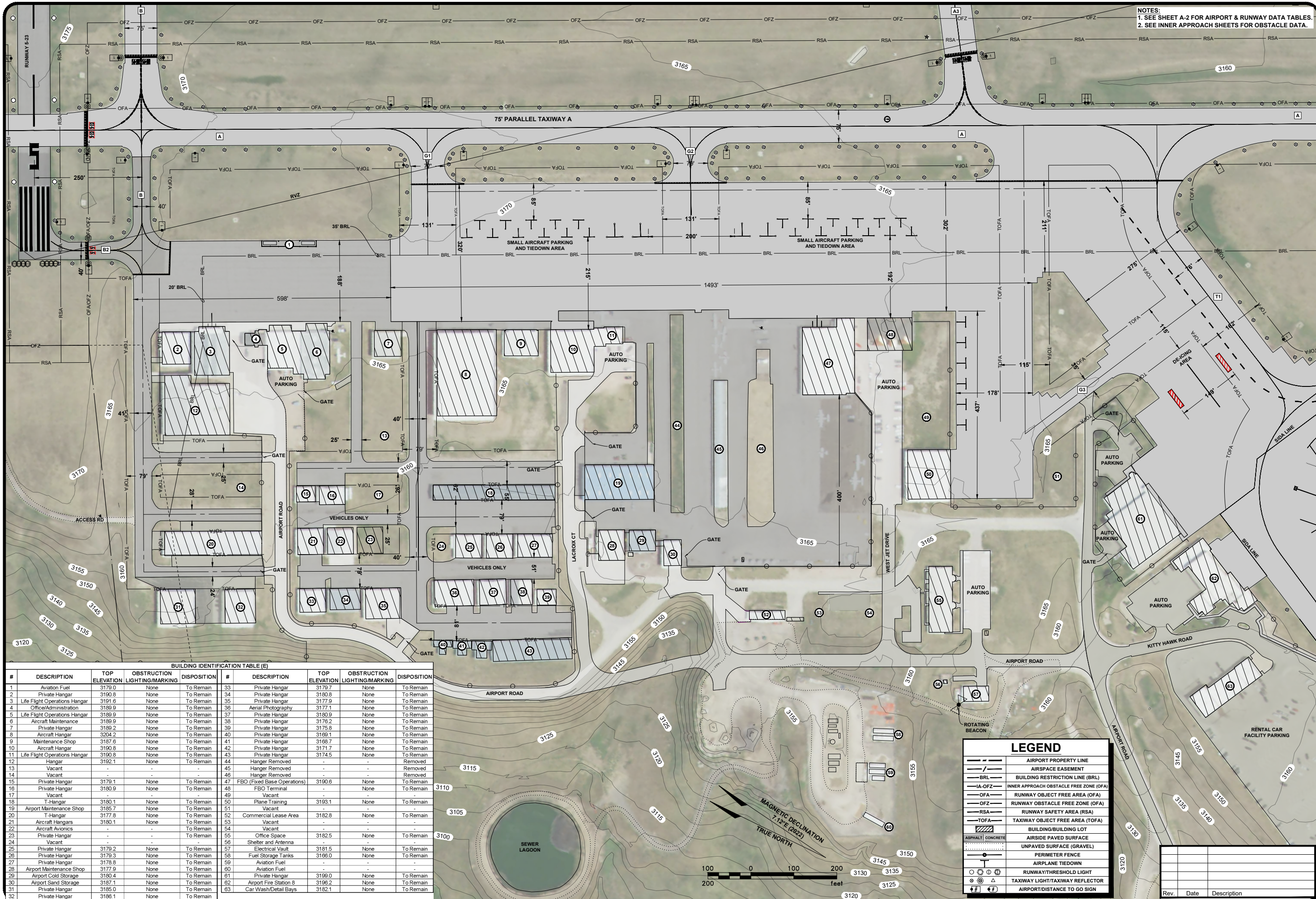
SHEET
A-4

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July 19, 2023 - 2:50 PM - K:\Projects\Airport\SD\RapidCity RAP\1905 02130 AMP\CADD\ALP\1905-02130 PLAN(U).dwg (Plan (U))



NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.



RAPID CITY REGIONAL AIRPORT

**CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA**

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY. NOT FOR CONSTRUCTION

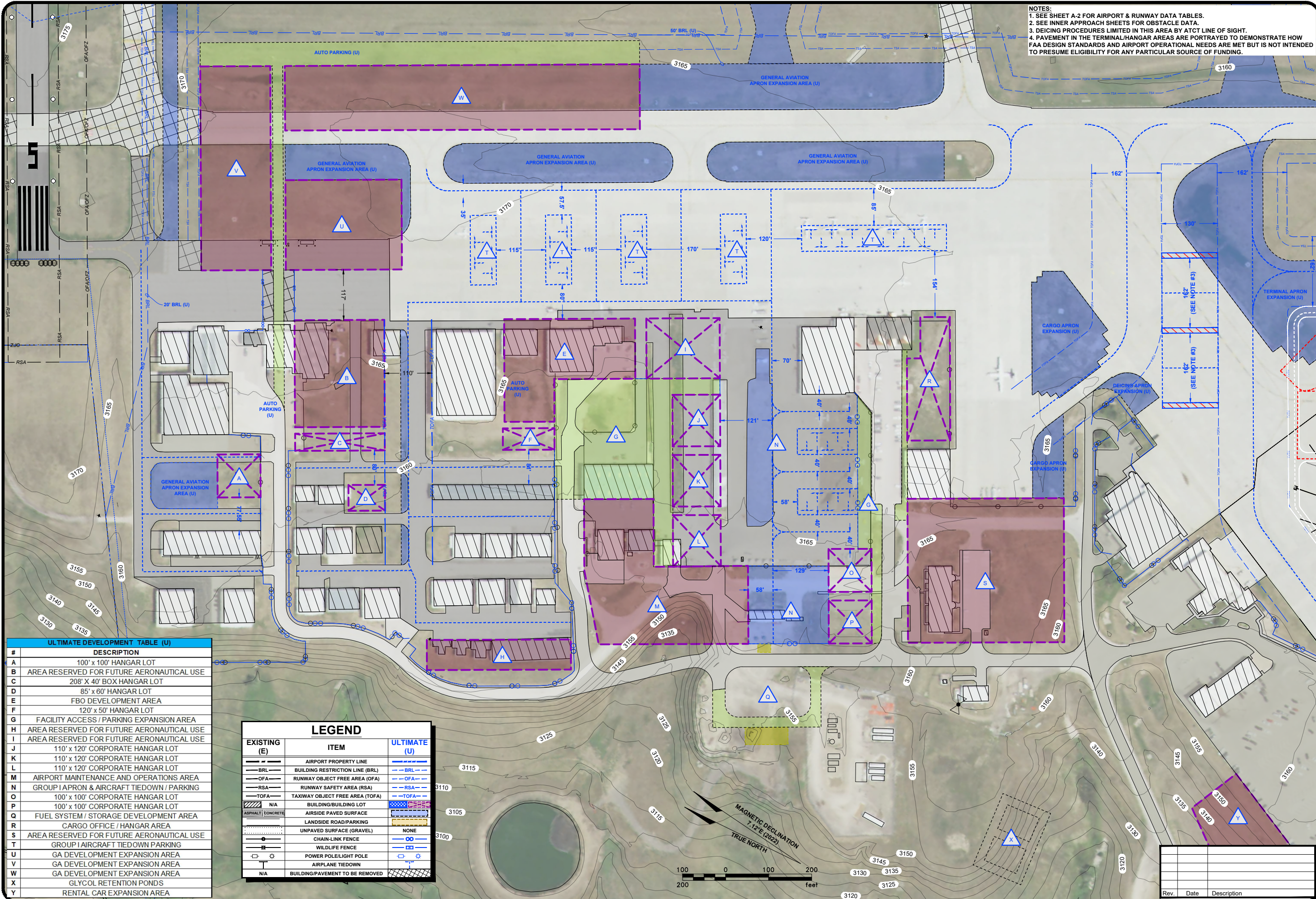
**NORTH GENERAL AVIATION
(EXISTING)**

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KLP
PROJECT NUMBER
1905-02130

SHEET
A-5

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BUILDING IDENTIFICATION TABLE (E)									
#	DESCRIPTION	TOP ELEVATION	OBSTRUCTION LIGHTING/MARKING	DISPOSITION	#	DESCRIPTION	TOP ELEVATION	OBSTRUCTION LIGHTING/MARKING	DISPOSITION
1	Aviation Fuel	3179.0	None	To Remain	33	Private Hangar	3179.7	None	To Remain
2	Private Hangar	3190.8	None	To Remain	34	Private Hangar	3180.8	None	To Remain
3	Life Flight Operations Hangar	3191.6	None	To Remain	35	Private Hangar	3177.9	None	To Remain
4	Office/Administration	3189.9	None	To Remain	36	Aerial Photography	3177.1	None	To Remain
5	Life Flight Operations Hangar	3189.9	None	To Remain	37	Private Hangar	3180.9	None	To Remain
6	Aircraft Maintenance	3189.9	None	To Remain	38	Private Hangar	3176.2	None	To Remain
7	Private Hangar	3189.2	None	To Remain	39	Private Hangar	3176.8	None	To Remain
8	Aircraft Hangar	3204.2	None	To Remain	40	Private Hangar	3169.1	None	To Remain
9	Maintenance Shop	3187.6	None	To Remain	41	Private Hangar	3168.7	None	To Remain
10	Aircraft Hangar	3190.8	None	To Remain	42	Private Hangar	3171.7	None	To Remain
11	Life Flight Operations Hangar	3190.8	None	To Remain	43	Private Hangar	3174.5	None	To Remain
12	Hangar	3192.1	None	To Remain	44	Hangar Removed	-	-	Removed
13	Vacant	-	-	-	45	Hangar Removed	-	-	Removed
14	Vacant	-	-	-	46	Hangar Removed	-	-	Removed
15	Private Hangar	3179.1	None	To Remain	47	FBO (Fixed Base Operations)	3190.6	None	To Remain
16	Private Hangar	3180.9	None	To Remain	48	FBO Terminal	-	None	To Remain
17	Vacant	-	-	-	49	Vacant	-	-	-
18	T-Hangar	3180.1	None	To Remain	50	Plane Training	3193.1	None	To Remain
19	Airport Maintenance Shop	3185.7	None	To Remain	51	Vacant	-	-	-
20	T-Hangar	3177.8	None	To Remain	52	Commercial Lease Area	3182.8	None	To Remain
21	Aircraft Hangars	3180.1	None	To Remain	53	Vacant	-	-	-
22	Aircraft Avionics	-	-	To Remain	54	Vacant	-	-	-
23	Private Hangar	-	-	To Remain	55	Office Space	3182.5	None	To Remain
24	Vacant	-	-	-	56	Shelter and Antenna	-	-	-
25	Private Hangar	3179.2	None	To Remain	57	Electrical Vault	3181.5	None	To Remain
26	Private Hangar	3179.3	None	To Remain	58	Fuel Storage Tanks	3166.0	None	To Remain
27	Private Hangar	3178.8	None	To Remain	59	Aviation Fuel	-	-	-
28	Airport Maintenance Shop	3177.9	None	To Remain	60	Aviation Fuel	-	-	-
29	Airport Storage	3180.4	None	To Remain	61	Private Hangar	3199.0	None	To Remain
30	Airport Sand Storage	3187.1	None	To Remain	62	Airport Fire Station 8	3196.2	None	To Remain
31	Private Hangar	3185.0	None	To Remain	63	Car Wash/Detail Bays	3182.1	None	To Remain
32	Private Hangar	3196.1	None	To Remain					



NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. DEICING PROCEDURES LIMITED IN THIS AREA BY ATCT LINE OF SIGHT.
4. PAVEMENT IN THE TERMINAL/HANGAR AREAS ARE PORTRAYED TO DEMONSTRATE HOW FAA DESIGN STANDARDS AND AIRPORT OPERATIONAL NEEDS ARE MET BUT IS NOT INTENDED TO PRESUME ELIGIBILITY FOR ANY PARTICULAR SOURCE OF FUNDING.

ULTIMATE DEVELOPMENT TABLE (U)	
#	DESCRIPTION
A	100' x 100' HANGAR LOT
B	AREA RESERVED FOR FUTURE AERONAUTICAL USE
C	208' X 40' BOX HANGAR LOT
D	85' x 60' HANGAR LOT
E	FBO DEVELOPMENT AREA
F	120' x 50' HANGAR LOT
G	FACILITY ACCESS / PARKING EXPANSION AREA
H	AREA RESERVED FOR FUTURE AERONAUTICAL USE
I	AREA RESERVED FOR FUTURE AERONAUTICAL USE
J	110' x 120' CORPORATE HANGAR LOT
K	110' x 120' CORPORATE HANGAR LOT
L	110' x 120' CORPORATE HANGAR LOT
M	AIRPORT MAINTENANCE AND OPERATIONS AREA
N	GROUP I APRON & AIRCRAFT TIEDOWN / PARKING
O	100' x 100' CORPORATE HANGAR LOT
P	100' x 100' CORPORATE HANGAR LOT
Q	FUEL SYSTEM / STORAGE DEVELOPMENT AREA
R	CARGO OFFICE / HANGAR AREA
S	AREA RESERVED FOR FUTURE AERONAUTICAL USE
T	GROUP I AIRCRAFT TIEDOWN PARKING
U	GA DEVELOPMENT EXPANSION AREA
V	GA DEVELOPMENT EXPANSION AREA
W	GA DEVELOPMENT EXPANSION AREA
X	GLYCOL RETENTION PONDS
Y	RENTAL CAR EXPANSION AREA

LEGEND		
EXISTING (E)	ITEM	ULTIMATE (U)
	AIRPORT PROPERTY LINE	
	BUILDING RESTRICTION LINE (BRL)	
	RUNWAY OBJECT FREE AREA (OFA)	
	RUNWAY SAFETY AREA (RSA)	
	TAXIWAY OBJECT FREE AREA (TOFA)	
	N/A	
	BUILDING/BUILDING LOT	
	AIRSIDE PAVED SURFACE	
	LANDSIDE ROAD/PARKING	
	UNPAVED SURFACE (GRAVEL)	NONE
	CHAIN-LINK FENCE	
	WILDLIFE FENCE	
	POWER POLE/LIGHT POLE	
	AIRPLANE TIEDOWN	
	N/A	
	BUILDING/PAVEMENT TO BE REMOVED	

RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

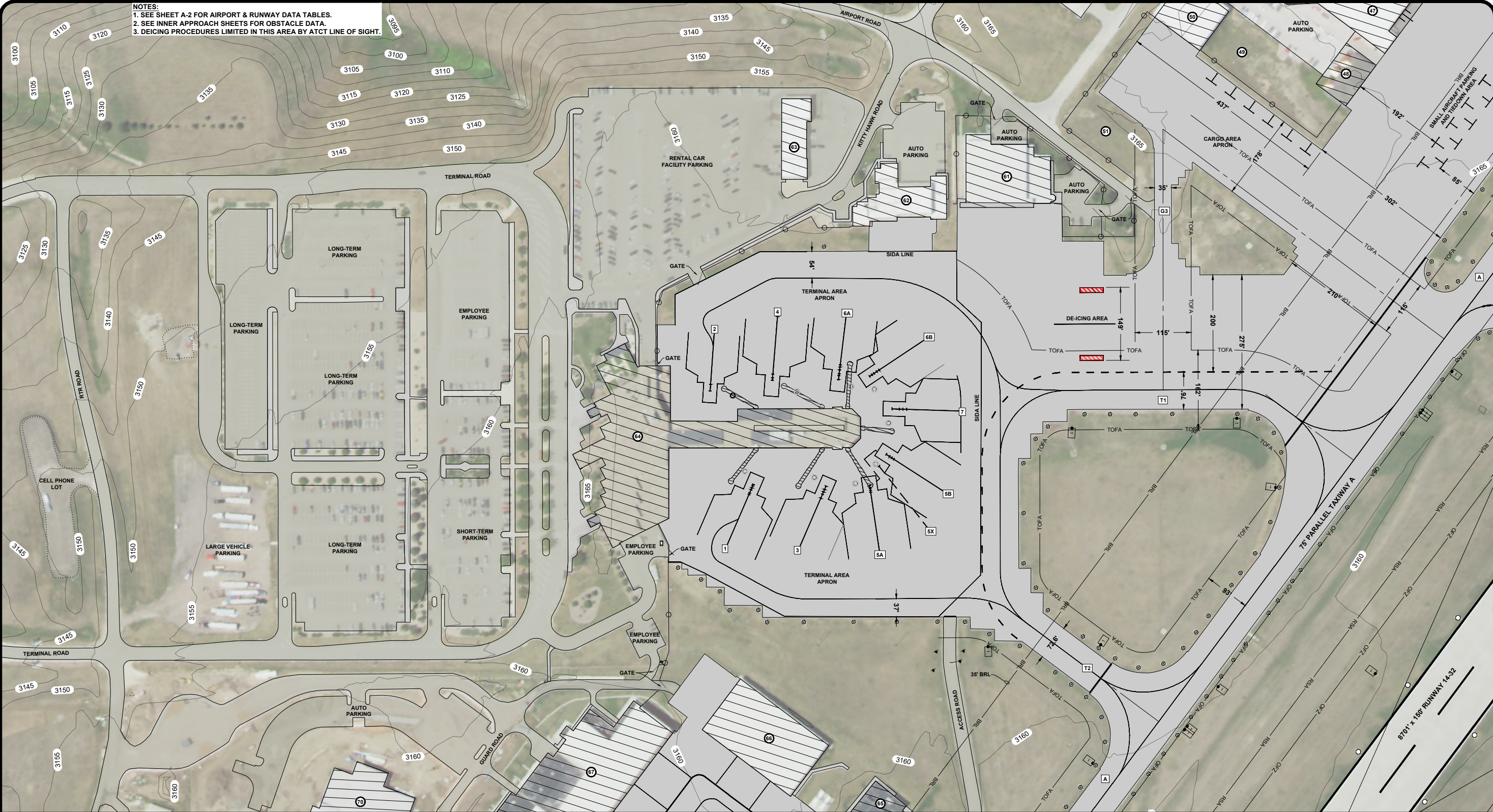
NORTH GENERAL AVIATION (ULTIMATE)

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A-6

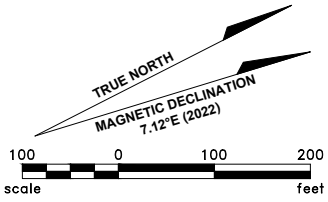
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LEGEND	
	AIRPORT PROPERTY LINE
	AIRSPACE EASEMENT
	BUILDING RESTRICTION LINE (BRL)
	INNER APPROACH OBSTACLE FREE ZONE (OFA)
	RUNWAY OBJECT FREE AREA (OFA)
	RUNWAY OBSTACLE FREE ZONE (OFA)
	RUNWAY SAFETY AREA (RSA)
	TAXIWAY OBJECT FREE AREA (TOFA)
	BUILDING/BUILDING LOT
	AIRSIDE PAVED SURFACE
	UNPAVED SURFACE (GRAVEL)
	PERIMETER FENCE
	AIRPLANE TIEDOWN
	RUNWAY/THRESHOLD LIGHT
	TAXIWAY LIGHT/TAXIWAY REFLECTOR
	AIRPORT/DISTANCE TO GO SIGN

BUILDING IDENTIFICATION TABLE (E)				
#	DESCRIPTION	TOP ELEV.	OBSTRUCTION LIGHTING/MARKING	DISPOSITION
47	FBO (Fixed Base Operations)	3190.6	None	To Remain
48	FBO Terminal	-	None	To Remain
49	Vacant	-	-	-
50	Plane Training	3193.1	None	To Remain
61	Private Hangar	3199.0	None	To Remain
62	Airport Fire Station 8	3196.2	None	To Remain
63	Car Wash/Detail Bays	3182.1	None	To Remain
64	Airport Terminal	3221.8	None	To Remain
65	National Guard	3191.4	None	To Remain
66	National Guard	3189.3	None	To Remain
67	National Guard	3206.6	None	To Remain
70	SDARNG Building	-	None	To Remain



Rev.	Date	Description

RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

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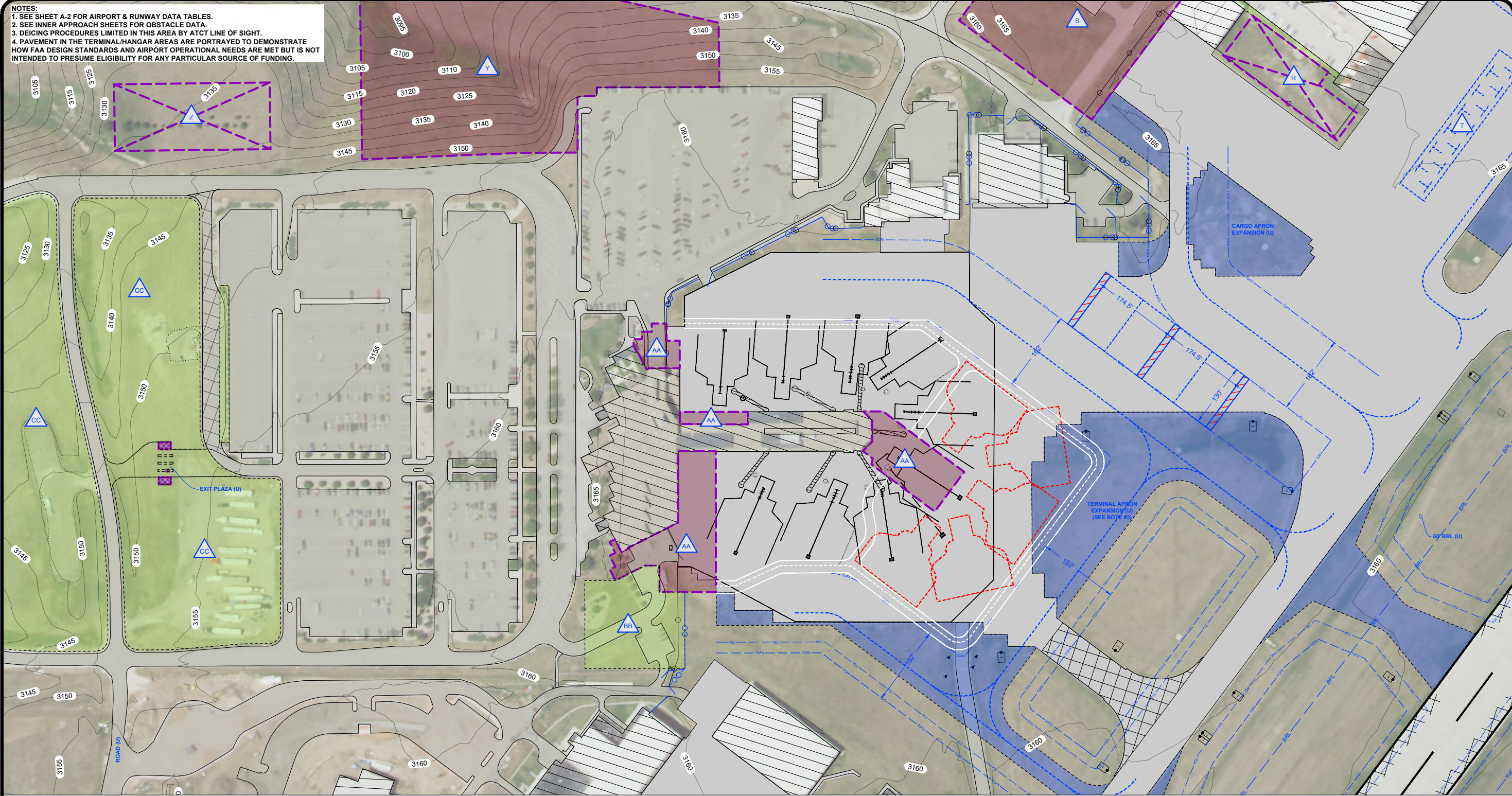
TERMINAL AREA (EXISTING)

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SHEET
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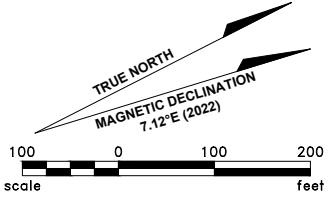
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NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. DEICING PROCEDURES LIMITED IN THIS AREA BY ATCT LINE OF SIGHT.
4. PAVEMENT IN THE TERMINAL/HANGAR AREAS ARE PORTRAYED TO DEMONSTRATE HOW FAA DESIGN STANDARDS AND AIRPORT OPERATIONAL NEEDS ARE MET BUT IS NOT INTENDED TO PRESUME ELIGIBILITY FOR ANY PARTICULAR SOURCE OF FUNDING.



LEGEND		
EXISTING (E)	ITEM	ULTIMATE (U)
	AIRPORT PROPERTY LINE	
	BUILDING RESTRICTION LINE (BRL)	
	RUNWAY OBJECT FREE AREA (OFA)	
	RUNWAY SAFETY AREA (RSA)	
	TAXIWAY OBJECT FREE AREA (TOFA)	
	N/A BUILDING/BUILDING LOT	
	ASPHALT AIRSIDE PAVED SURFACE	
	CONCRETE LANDSIDE ROAD/PARKING	
	UNPAVED SURFACE (GRAVEL)	NONE
	CHAIN-LINK FENCE	
	WILDLIFE FENCE	
	POWER POLE/LIGHT POLE	
	AIRPLANE TIEDOWN	
	N/A BUILDING/PAVEMENT TO BE REMOVED	

ULTIMATE DEVELOPMENT TABLE (U)	
#	DESCRIPTION
R	CARGO OFFICE / HANGAR AREA
S	AREA RESERVED FOR FUTURE AERONAUTICAL USE
T	GROUP I AIRCRAFT TIEDOWN PARKING
Y	RENTAL CAR EXPANSION AREA
Z	HOTEL DEVELOPMENT AREA
AA	TERMINAL EXPANSION
BB	TERMINAL EMPLOYEE PARKING EXPANSION AREA
CC	PARKING / NON-AERONAUTICAL DEVELOPMENT AREA



Rev.	Date	Description

RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

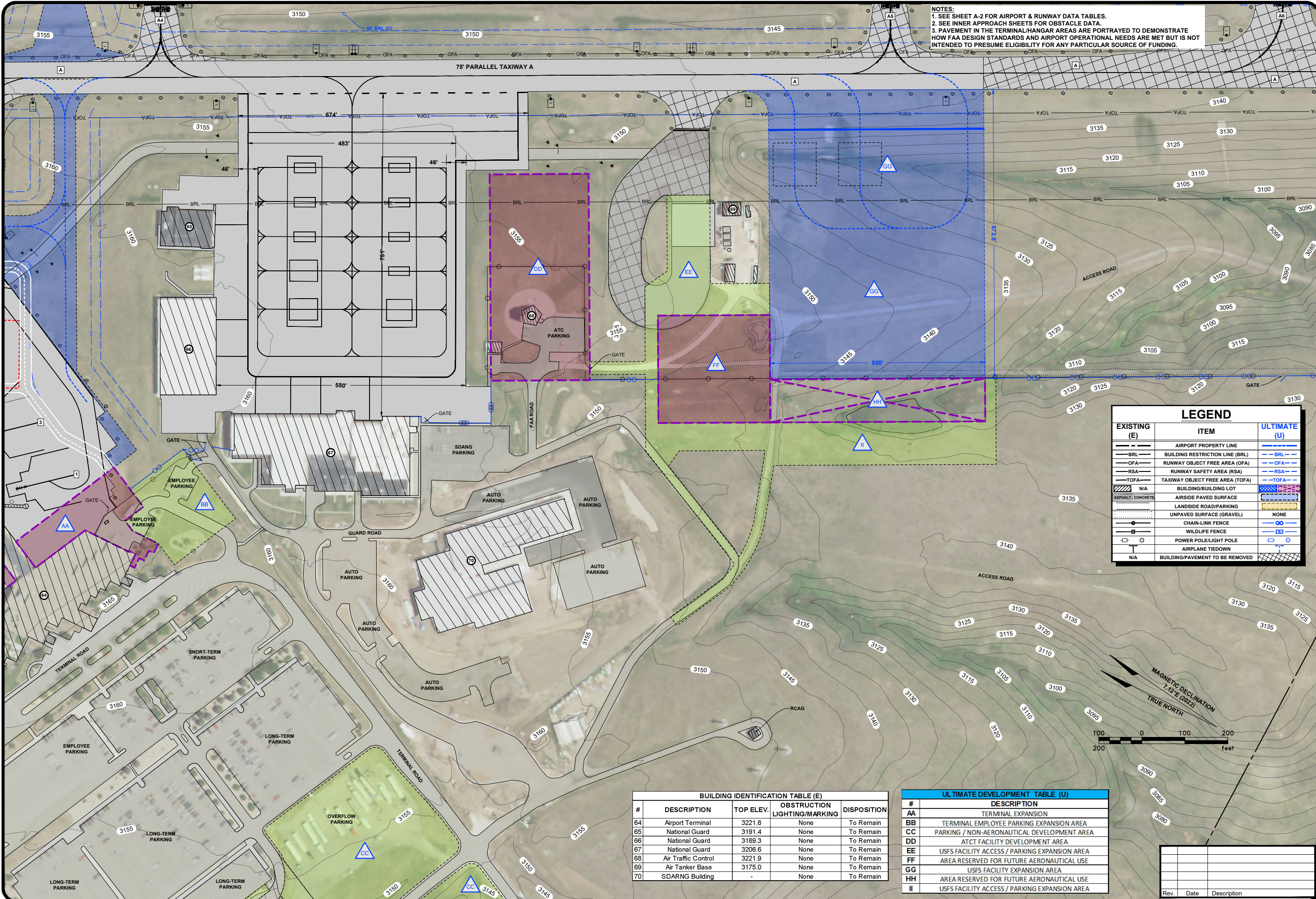
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TERMINAL AREA (ULTIMATE)

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PROJECT NUMBER
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NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. SEE INNER APPROACH SHEETS FOR OBSTACLE DATA.
3. PAVEMENT IN THE TERMINAL/HANGAR AREAS ARE PORTRAYED TO DEMONSTRATE HOW FAA DESIGN STANDARDS AND AIRPORT OPERATIONAL NEEDS ARE MET BUT IS NOT INTENDED TO PRESUME ELIGIBILITY FOR ANY PARTICULAR SOURCE OF FUNDING.

LEGEND		
EXISTING (E)	ITEM	ULTIMATE (U)
---	AIRPORT PROPERTY LINE	---
---	BUILDING RESTRICTION LINE (BRL)	---
---	RUNWAY OBJECT FREE AREA (OFA)	---
---	RUNWAY SAFETY AREA (RSA)	---
---	TAXIWAY OBJECT FREE AREA (TOFA)	---
N/A	BUILDING/BUILDING LOT	---
---	AIRSIDE PAVED SURFACE	---
---	LANDSIDE ROAD/PARKING	---
---	UNPAVED SURFACE (GRAVEL)	NONE
---	CHAIN-LINK FENCE	---
---	WILDLIFE FENCE	---
---	POWER POLE/LIGHT POLE	---
---	AIRPLANE TIEDOWN	---
N/A	BUILDING/PAVEMENT TO BE REMOVED	---

BUILDING IDENTIFICATION TABLE (E)				
#	DESCRIPTION	TOP ELEV.	OBSTRUCTION LIGHTING/MARKING	DISPOSITION
64	Airport Terminal	3221.8	None	To Remain
65	National Guard	3191.4	None	To Remain
66	National Guard	3189.3	None	To Remain
67	National Guard	3206.6	None	To Remain
68	Air Traffic Control	3221.9	None	To Remain
69	Air Tanker Base	3175.0	None	To Remain
70	SDARNG Building	-	None	To Remain

ULTIMATE DEVELOPMENT TABLE (U)	
#	DESCRIPTION
AA	TERMINAL EXPANSION
BB	TERMINAL EMPLOYEE PARKING EXPANSION AREA
CC	PARKING / NON-AERONAUTICAL DEVELOPMENT AREA
DD	ATCT FACILITY DEVELOPMENT AREA
EE	USFS FACILITY ACCESS / PARKING EXPANSION AREA
FF	AREA RESERVED FOR FUTURE AERONAUTICAL USE
GG	USFS FACILITY EXPANSION AREA
HH	AREA RESERVED FOR FUTURE AERONAUTICAL USE
II	USFS FACILITY ACCESS / PARKING EXPANSION AREA

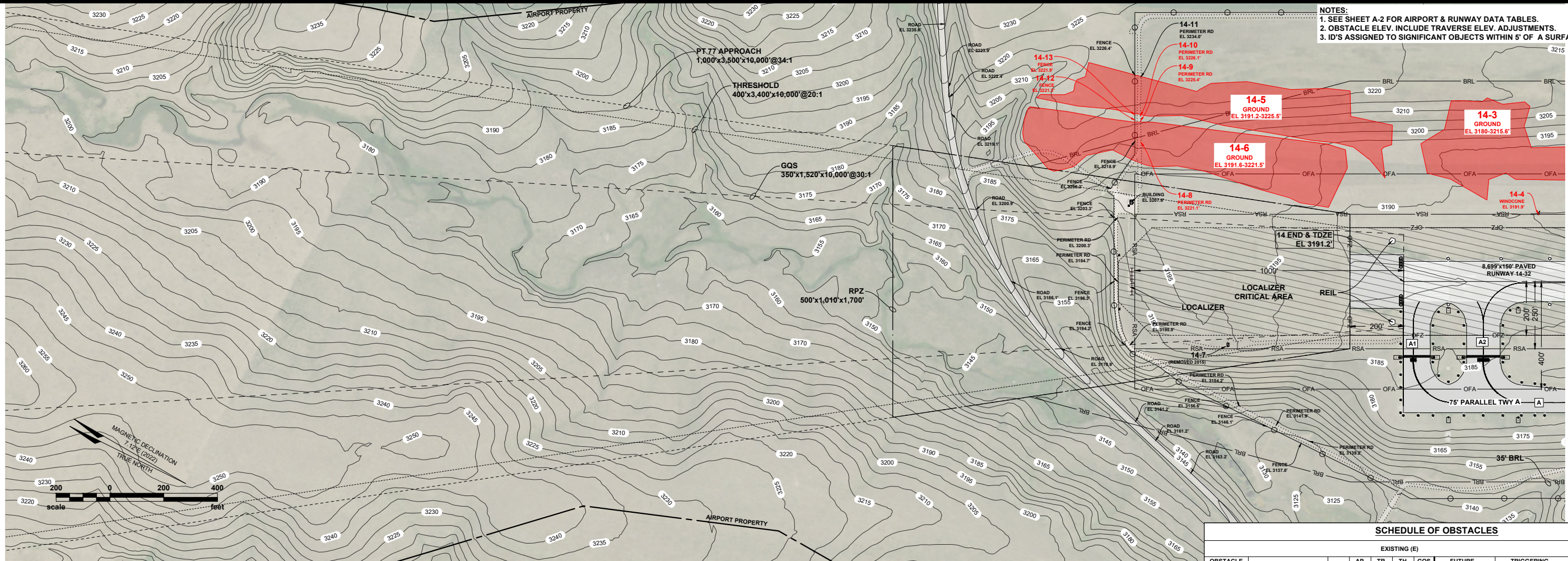
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RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

SOUTH GENERAL AVIATION AREA

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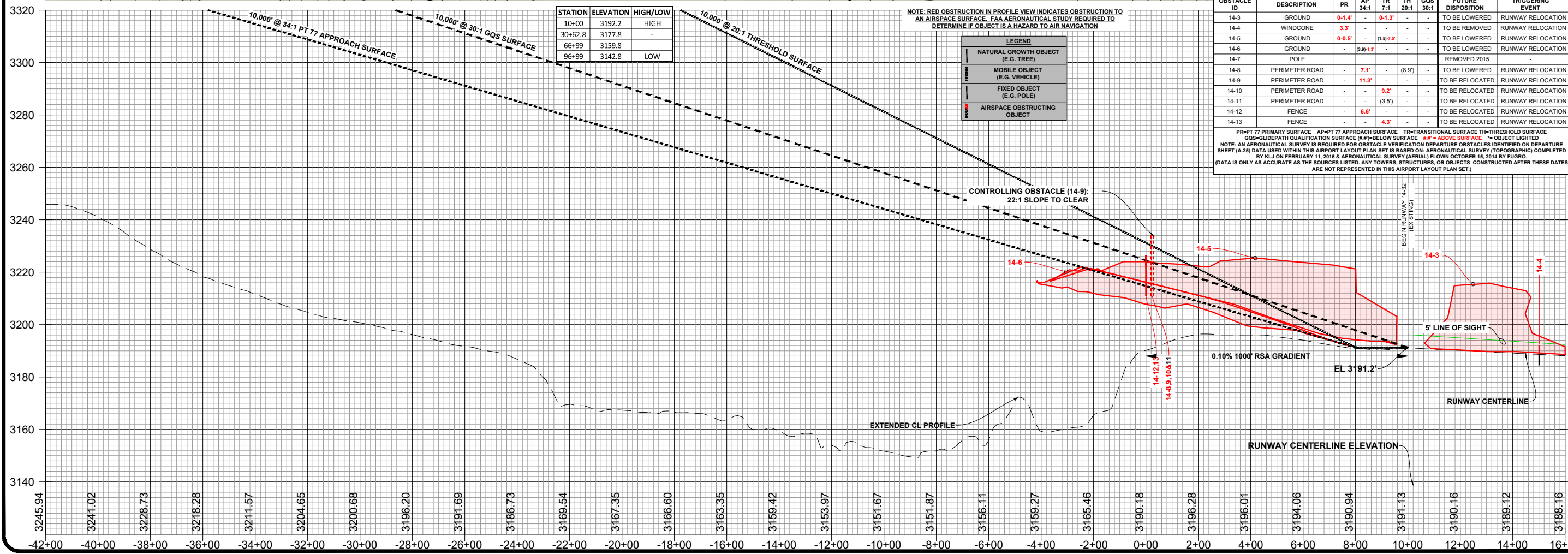


- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE ELEV. INCLUDE TRAVERSE ELEV. ADJUSTMENTS.
 3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



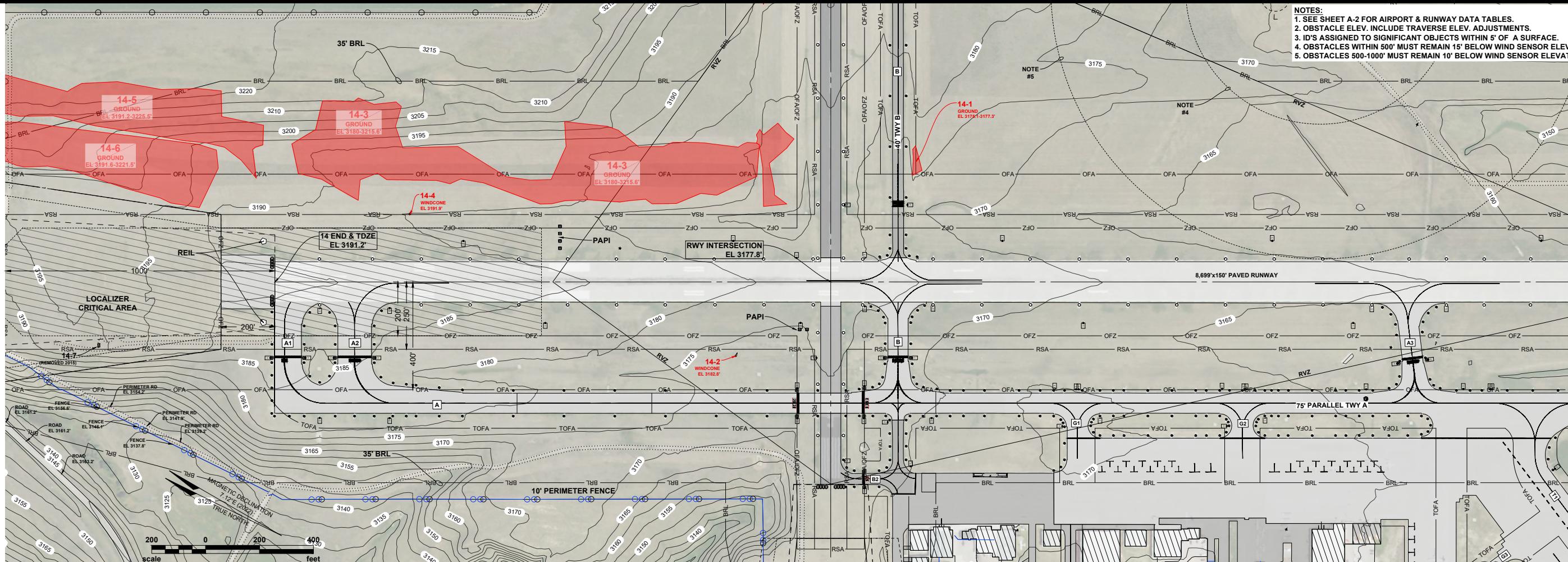
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CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

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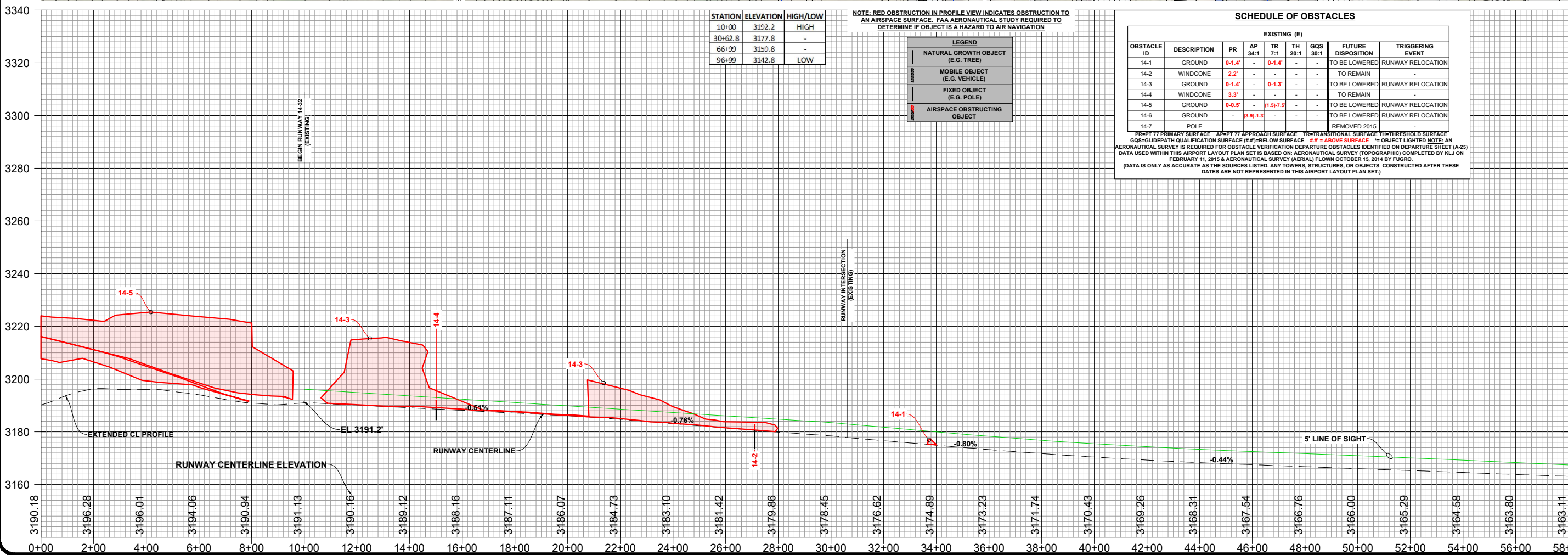


**INNER APPROACH SURFACE
RUNWAY 14 END**

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1905-02130



- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE ELEV. INCLUDE TRAVERSE ELEV. ADJUSTMENTS.
 3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
 4. OBSTACLES WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR ELEVATION.
 5. OBSTACLES 500'-1000' MUST REMAIN 10' BELOW WIND SENSOR ELEVATION.



RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

INNER APPROACH SURFACE
RUNWAY 14-32

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CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

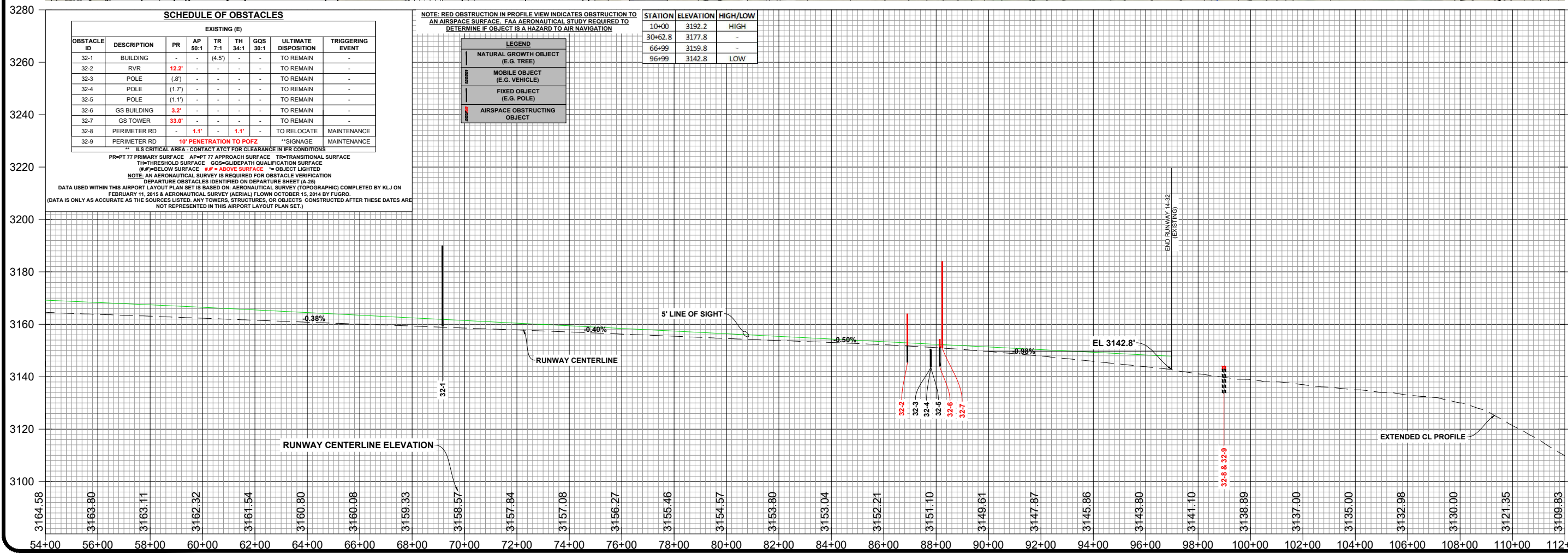
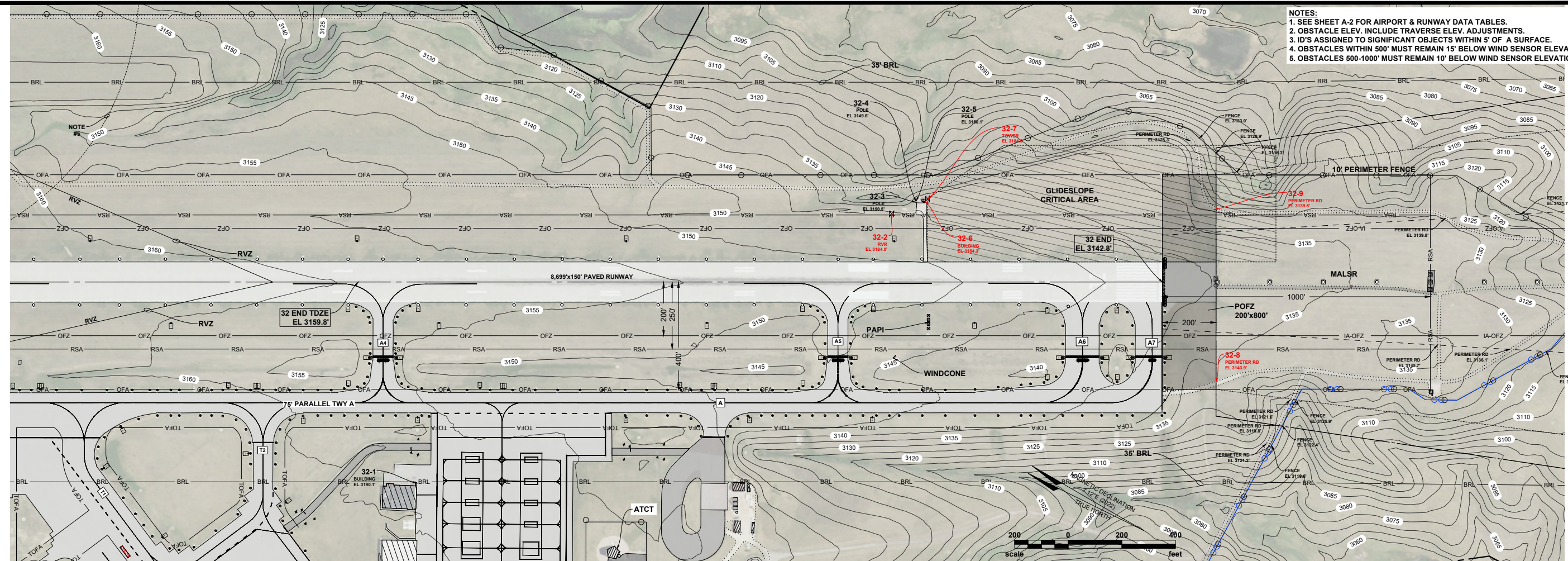
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**INNER APPROACH SURFACE
RUNWAY 14-32**

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KLP
PROJECT NUMBER
1905-02130

SHEET
A-12

- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE ELEV. INCLUDE TRAVERSE ELEV. ADJUSTMENTS.
 3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
 4. OBSTACLES WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR ELEVATION.
 5. OBSTACLES 500-1000' MUST REMAIN 10' BELOW WIND SENSOR ELEVATION.



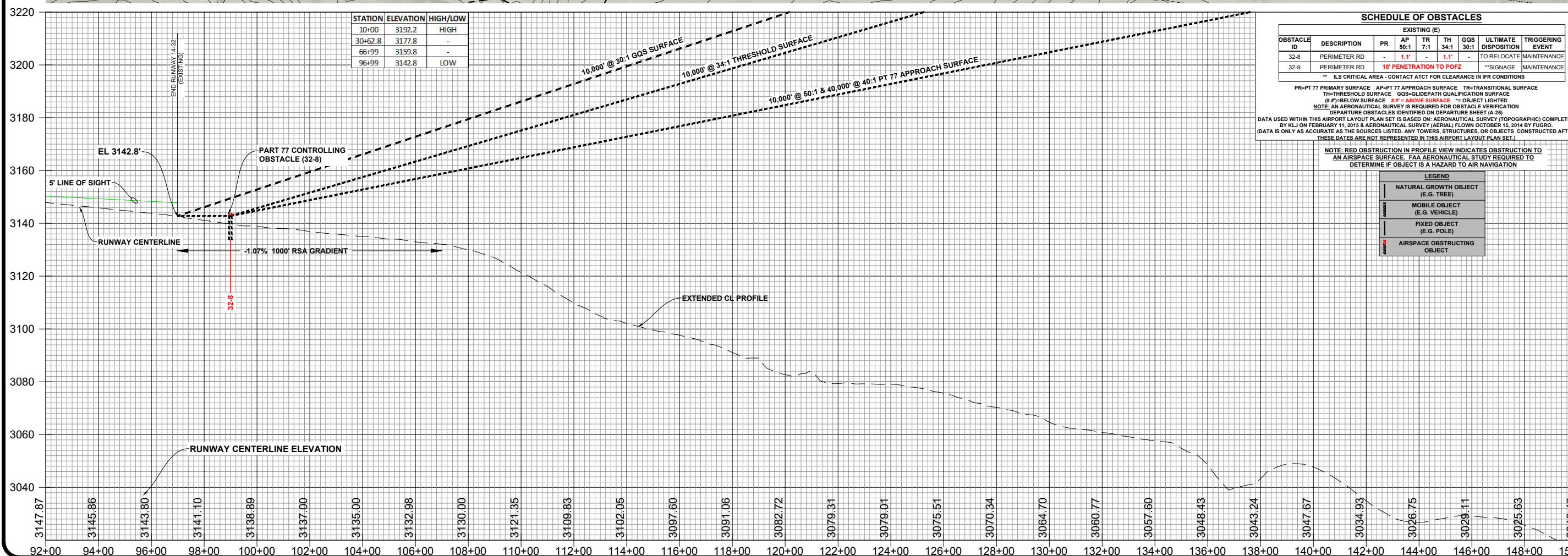


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**INNER APPROACH SURFACE
RUNWAY 32 END**

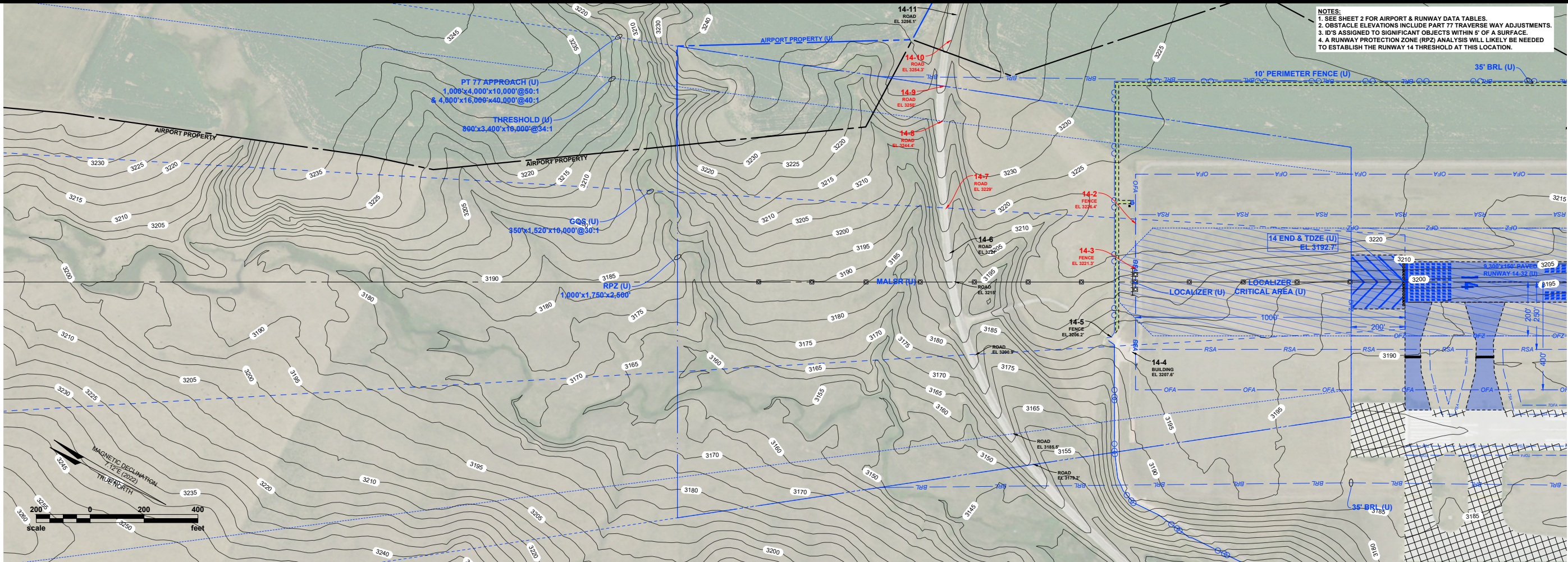
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A-13

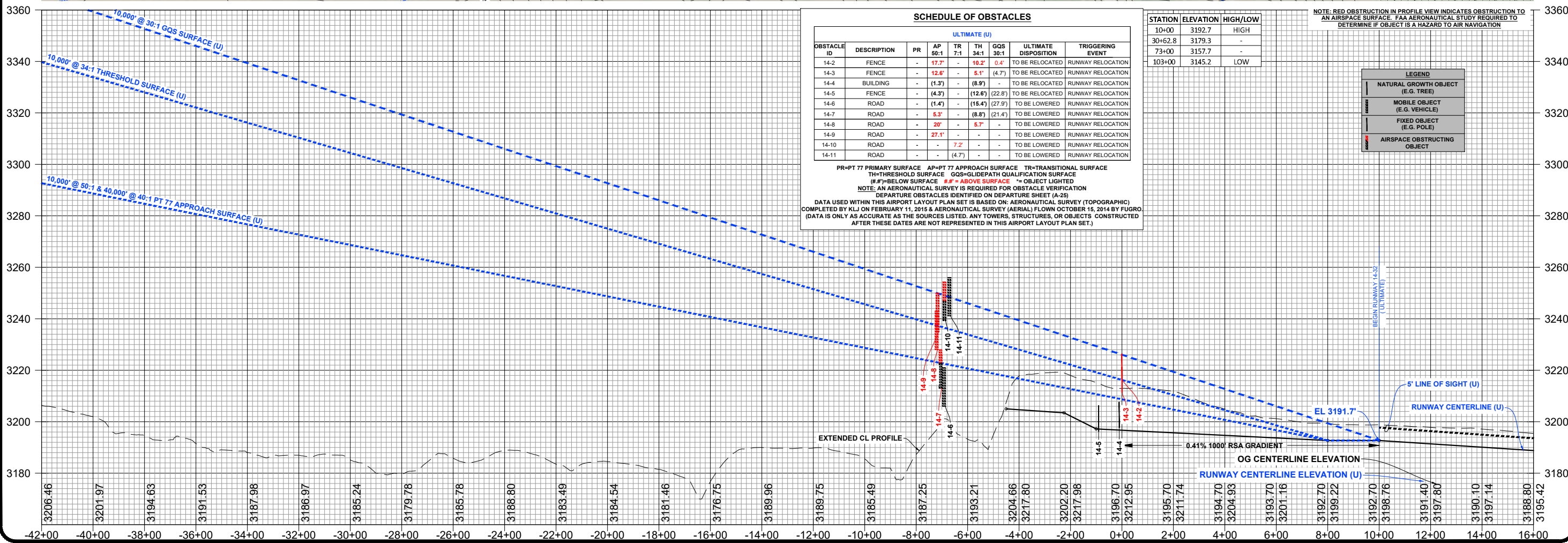


May 21, 2024 - 9:24 AM - K:\Projects\Airport\SD\RapidCity RAP\1905 02130 AMP\CADD\ALP\1905-02130 InnerApproach.dwg (32 END

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NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
3. IDS ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
4. A RUNWAY PROTECTION ZONE (RPZ) ANALYSIS WILL LIKELY BE NEEDED TO ESTABLISH THE RUNWAY 14 THRESHOLD AT THIS LOCATION.



RAPID CITY REGIONAL AIRPORT

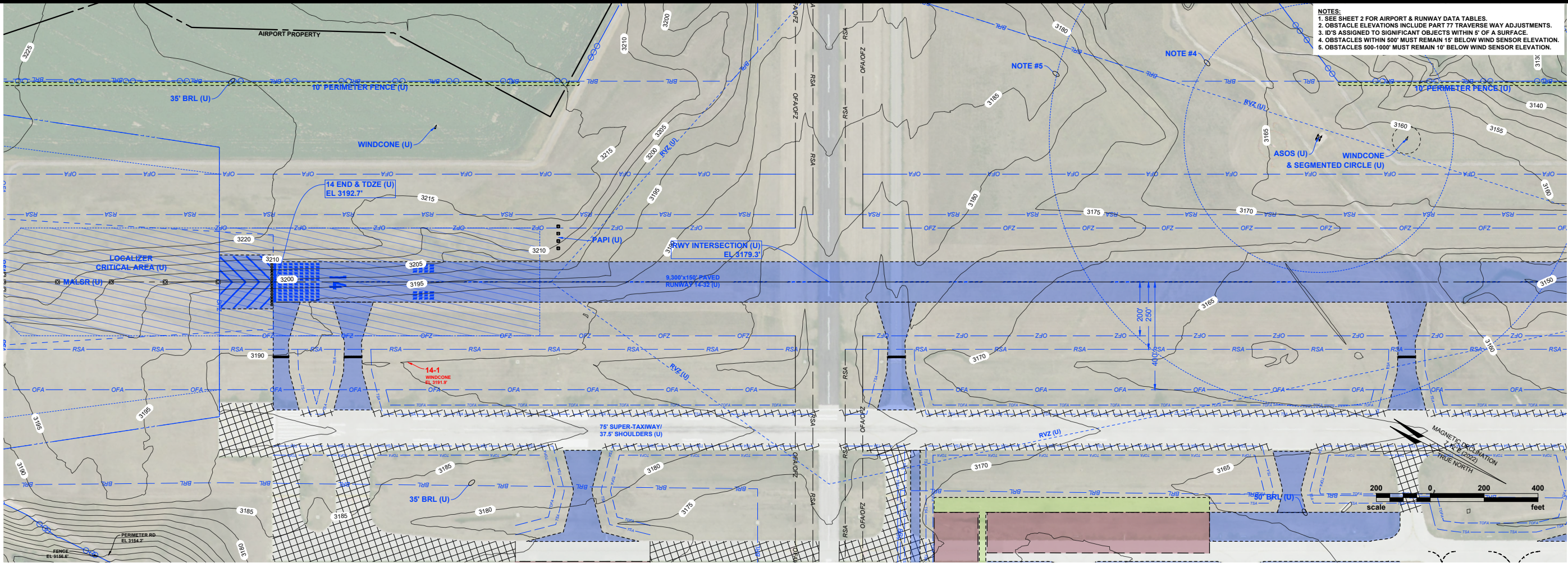
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RAPID CITY, SOUTH DAKOTA

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INNER APPROACH SURFACE RUNWAY 14 END (ULTIMATE)

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1905-02130

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A-14



- NOTES:
1. SEE SHEET 2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE ELEVATIONS INCLUDE PART 77 TRAVERSE WAY ADJUSTMENTS.
 3. IDS'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.
 4. OBSTACLES WITHIN 500' MUST REMAIN 15' BELOW WIND SENSOR ELEVATION.
 5. OBSTACLES 500'-1000' MUST REMAIN 10' BELOW WIND SENSOR ELEVATION.



RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

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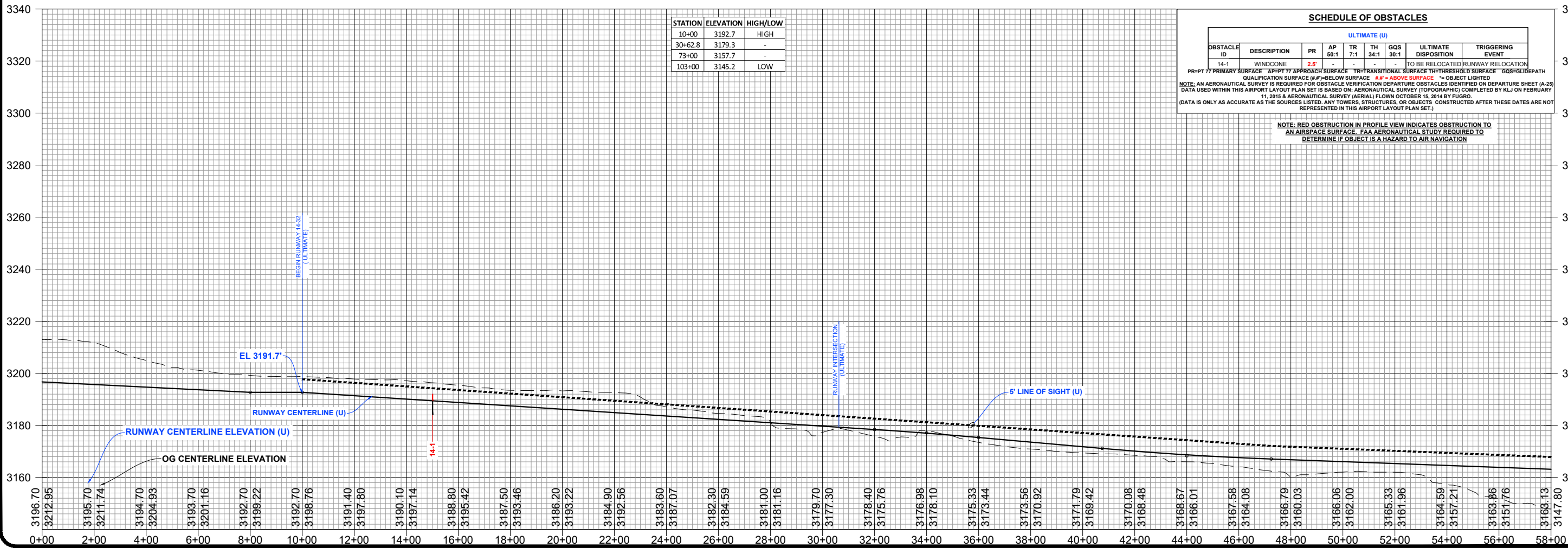
STATION	ELEVATION	HIGH/LOW
10+00	3192.7	HIGH
30+62.8	3179.3	-
73+00	3157.7	-
103+00	3145.2	LOW

SCHEDULE OF OBSTACLES

ULTIMATE (U)						
OBSTACLE ID	DESCRIPTION	PR	AP 50:1	TR 7:1	TH 34:1	QGS 30:1
14-1	WINDCONE	2.5'	-	-	-	-
TO BE RELOCATED/RUNWAY RELOCATION						

PR=PT 77 PRIMARY SURFACE AP=PT 77 APPROACH SURFACE TR=TRANSITIONAL SURFACE TH=THRESHOLD SURFACE QGS=GLIDE PATH QUALIFICATION SURFACE #F=BELOW SURFACE #F=ABOVE SURFACE - OBJECT LIGHTED
NOTE: AN AERONAUTICAL SURVEY IS REQUIRED FOR OBSTACLE VERIFICATION DEPARTURE OBSTACLES IDENTIFIED ON DEPARTURE SHEET (A-20) DATA USED WITHIN THIS AIRPORT LAYOUT PLAN SET IS BASED ON: AERONAUTICAL SURVEY (TOPOGRAPHIC) COMPLETED BY KLJ ON FEBRUARY 11, 2015 & AERONAUTICAL SURVEY (AERIAL) FLOWN OCTOBER 15, 2014 BY FUGRO.
(DATA IS ONLY AS ACCURATE AS THE SOURCES LISTED. ANY TOWERS, STRUCTURES, OR OBJECTS CONSTRUCTED AFTER THESE DATES ARE NOT REPRESENTED IN THIS AIRPORT LAYOUT PLAN SET.)

NOTE: RED OBSTRUCTION IN PROFILE VIEW INDICATES OBSTRUCTION TO AN AIRSPACE SURFACE. FAA AERONAUTICAL STUDY REQUIRED TO DETERMINE IF OBJECT IS A HAZARD TO AIR NAVIGATION



**INNER APPROACH SURFACE
RUNWAY 14-32 (ULTIMATE)**

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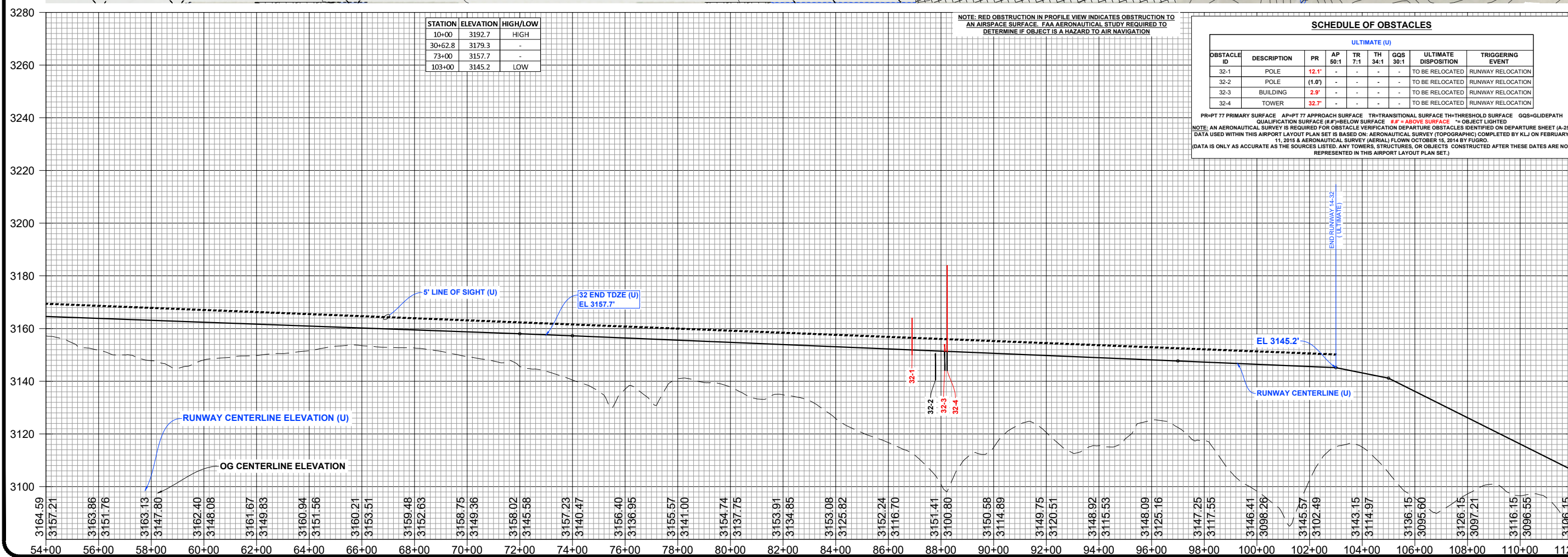


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INNER APPROACH SURFACE RUNWAY 14-32 (ULTIMATE)

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PROJECT NUMBER
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SHEET
A-16



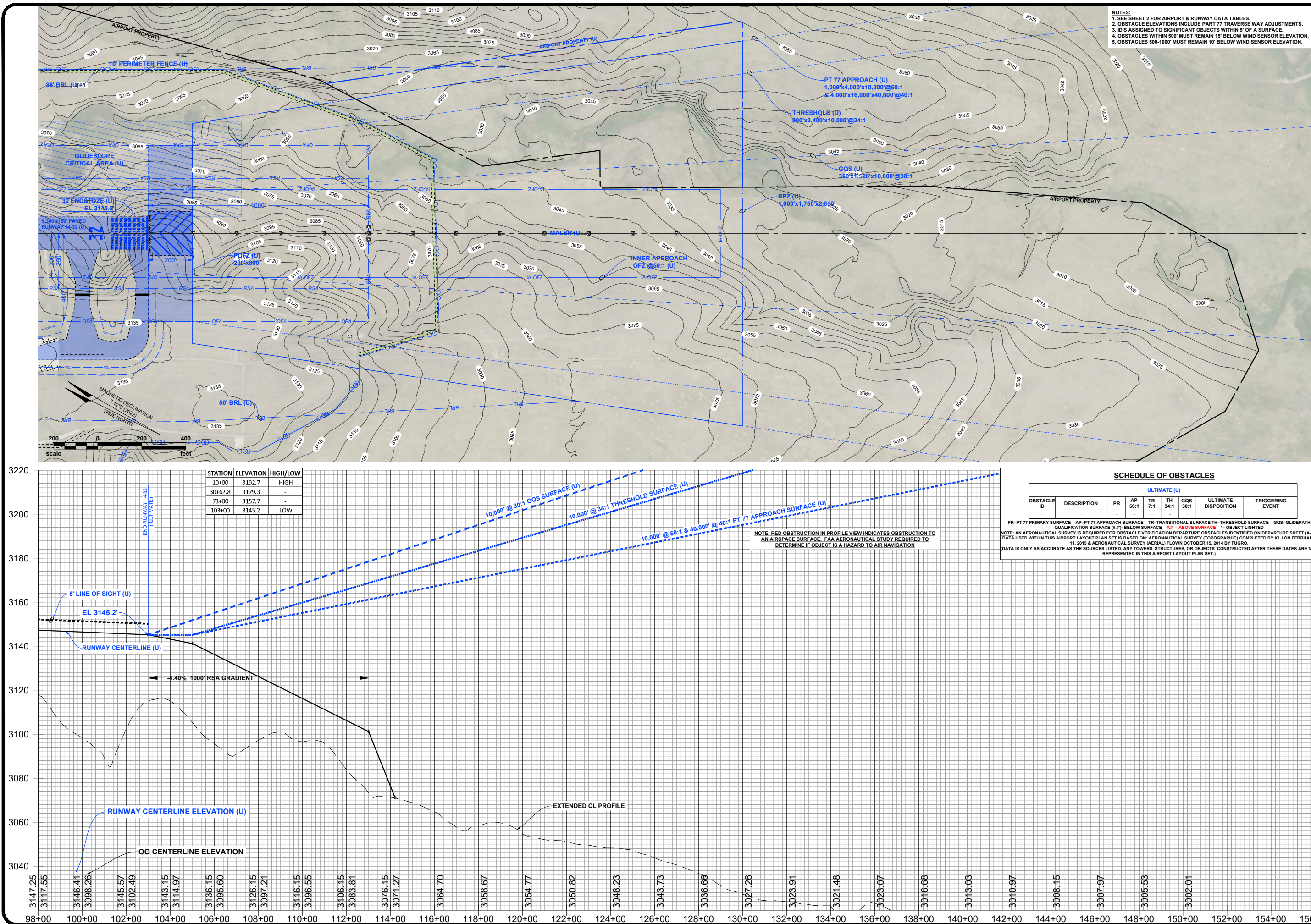


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**INNER APPROACH SURFACE
RUNWAY 32 END (ULTIMATE)**

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RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

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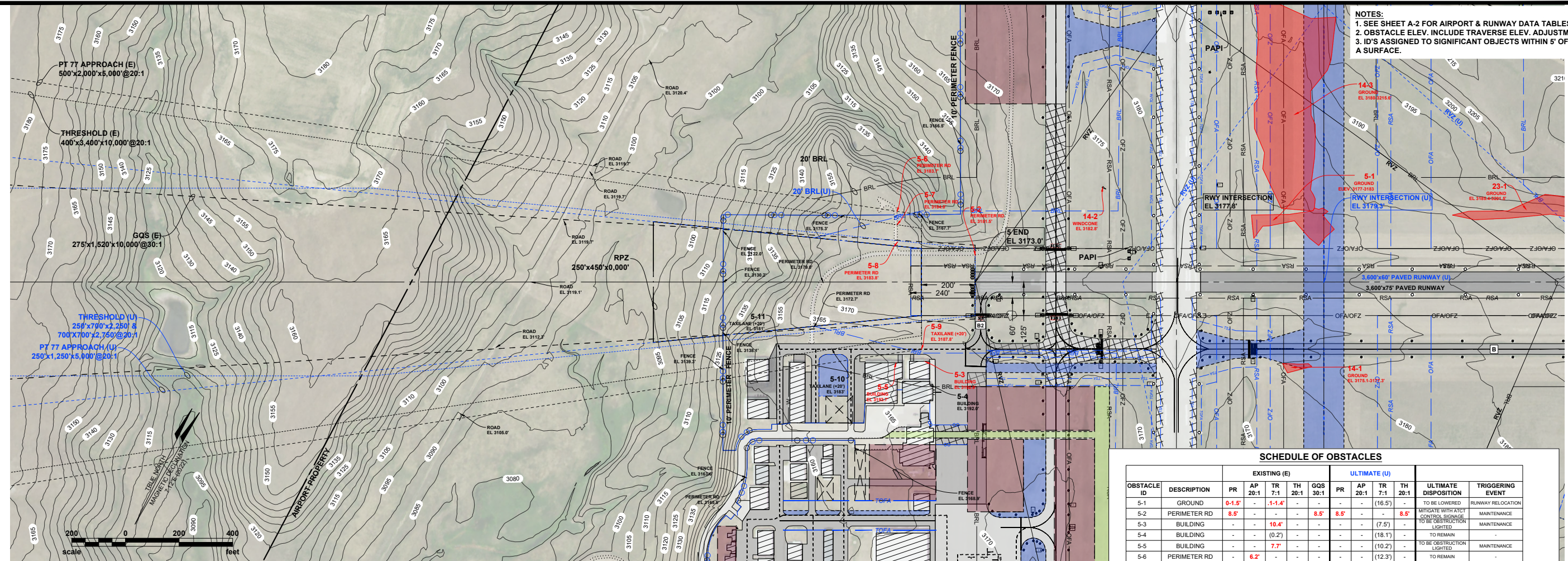
**INNER APPROACH SURFACE
RUNWAY 5 END**

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PROJECT NUMBER
1905-02130

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A-18

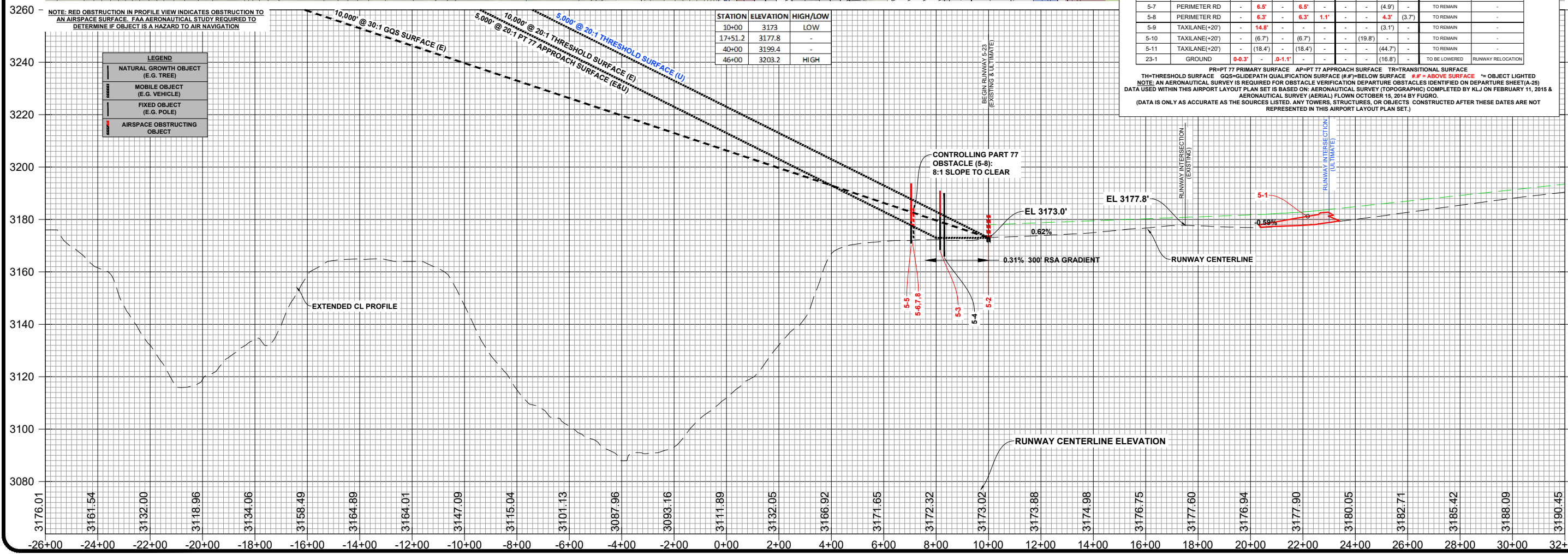
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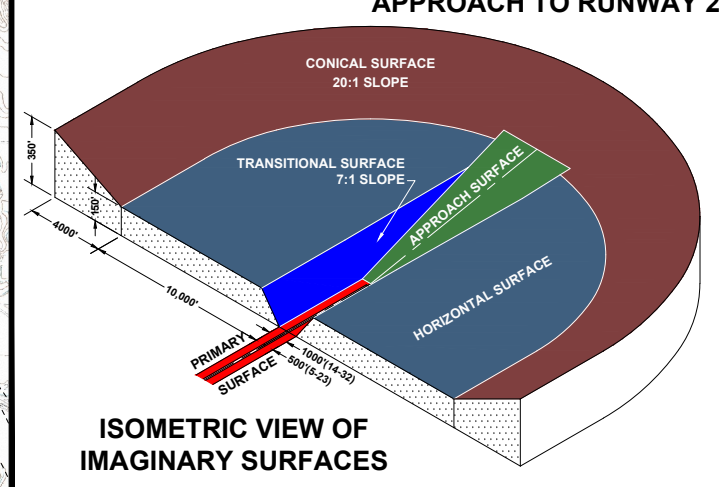
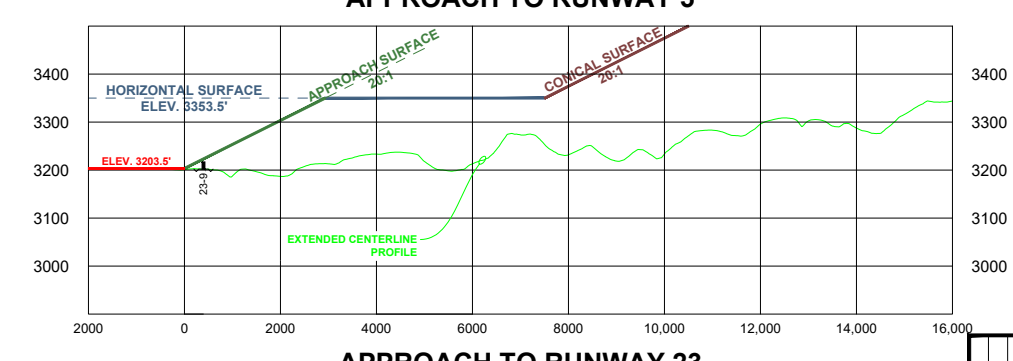
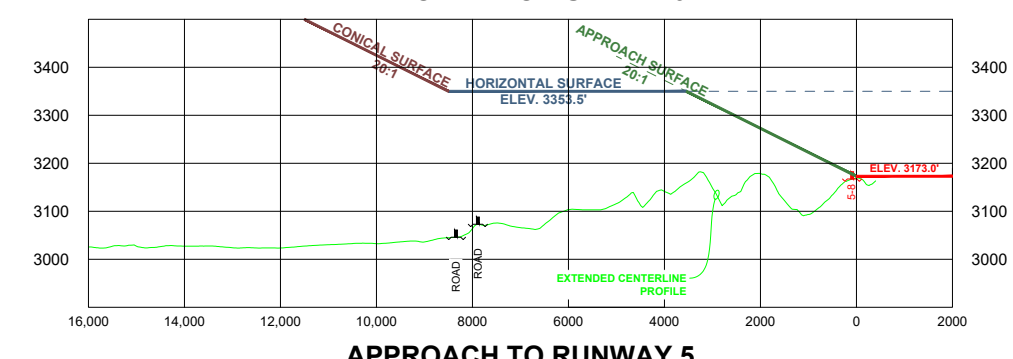
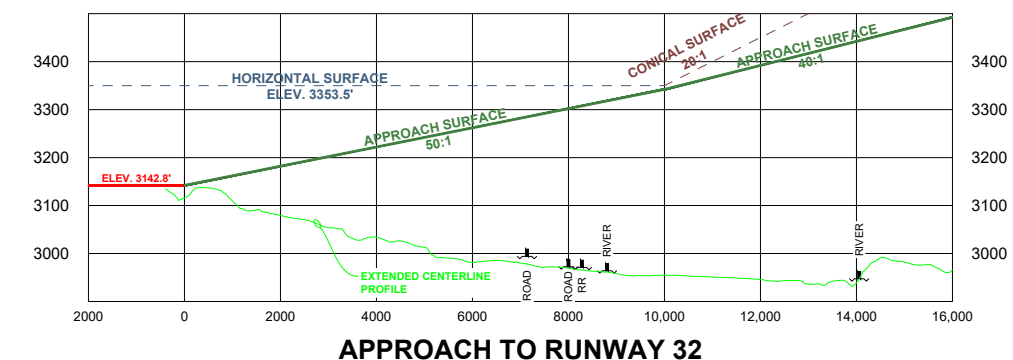
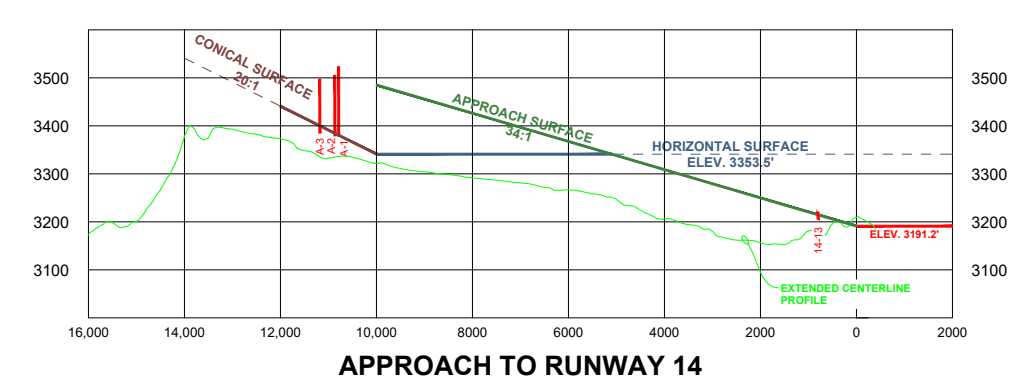
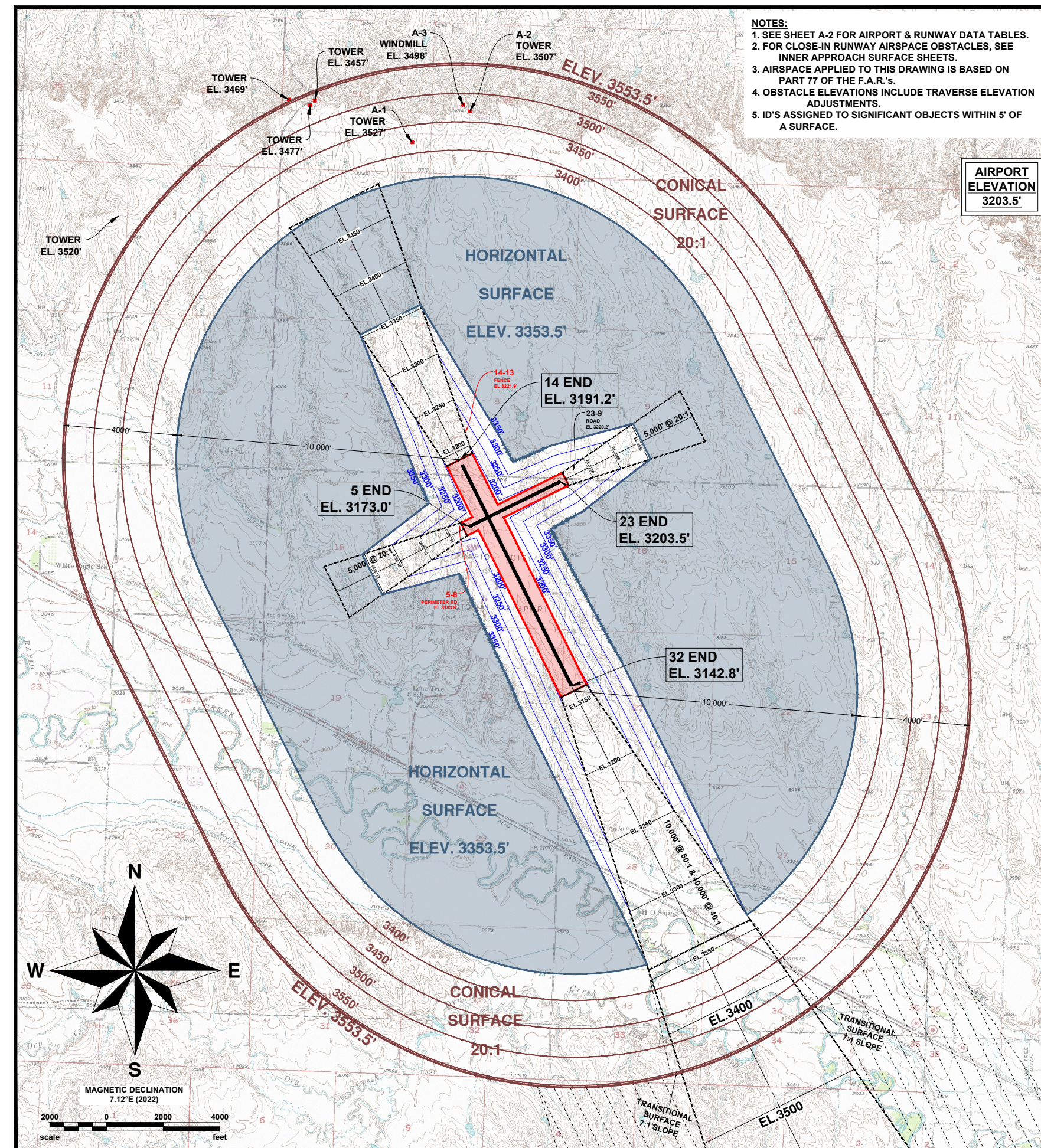
- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. OBSTACLE ELEV. INCLUDE TRAVERSE ELEV. ADJUSTMENTS.
3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.



		EXISTING (E)					ULTIMATE (U)					ULTIMATE DISPOSITION	TRIGGERING EVENT
OBSTACLE ID	DESCRIPTION	PR	AP 20:1	TR 7:1	TH 20:1	GQS 30:1	PR	AP 20:1	TR 7:1	TH 20:1	GQS 30:1		
5-1	GROUND	0-1.5'	-	-1-1.4'	-	-	-	-	-	(16.5')	-	TO BE LOWERED	RUNWAY RELOCATION
5-2	PERIMETER RD	8.5'	-	-	-	8.5'	8.5'	-	-	8.5'	-	MITIGATE WITH ATCT CONTROL SIGNAGE	MAINTENANCE
5-3	BUILDING	-	-	10.4'	-	-	-	-	-	(7.5')	-	TO BE OBSTRUCTION LIGHTED	MAINTENANCE
5-4	BUILDING	-	-	(0.2')	-	-	-	-	-	(18.1')	-	TO REMAIN	-
5-5	BUILDING	-	-	7.7'	-	-	-	-	-	(10.2')	-	TO BE OBSTRUCTION LIGHTED	MAINTENANCE
5-6	PERIMETER RD	6.2'	-	-	-	-	-	-	-	(12.3')	-	TO REMAIN	-
5-7	PERIMETER RD	6.5'	-	6.5'	-	-	-	-	-	(4.9')	-	TO REMAIN	-
5-8	PERIMETER RD	6.3'	-	6.3'	1.1'	-	-	-	-	4.3'	(3.7')	TO REMAIN	-
5-9	TAXILANE(+20')	14.8'	-	-	-	-	-	-	-	(3.1')	-	TO REMAIN	-
5-10	TAXILANE(+20')	(6.7')	-	(6.7')	-	-	-	-	-	(19.8')	-	TO REMAIN	-
5-11	TAXILANE(+20')	(18.4')	-	(18.4')	-	-	-	-	-	(44.7')	-	TO REMAIN	-
23-1	GROUND	0-0.3'	-	-0-1.1'	-	-	-	-	-	(16.8')	-	TO BE LOWERED	RUNWAY RELOCATION

PR=PT 77 PRIMARY SURFACE AP=PT 77 APPROACH SURFACE TR=TRANSITIONAL SURFACE
TH=THRESHOLD SURFACE GQS=GLIDEPATH QUALIFICATION SURFACE (#.#)=BELOW SURFACE #.#'=ABOVE SURFACE * = OBJECT LIGHTED
NOTE: AN AERONAUTICAL SURVEY IS REQUIRED FOR OBSTACLE VERIFICATION DEPARTURE OBSTACLES IDENTIFIED ON DEPARTURE SHEET(A-25)
DATA USED WITHIN THIS AIRPORT LAYOUT PLAN SET IS BASED ON: AERONAUTICAL SURVEY (TOPOGRAPHIC) COMPLETED BY KLJ ON FEBRUARY 11, 2015 & AERONAUTICAL SURVEY (AERIAL) FLOWN OCTOBER 16, 2014 BY FUGRO.
(DATA IS ONLY AS ACCURATE AS THE SOURCES LISTED. ANY TOWERS, STRUCTURES, OR OBJECTS CONSTRUCTED AFTER THESE DATES ARE NOT REPRESENTED IN THIS AIRPORT LAYOUT PLAN SET.)





RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

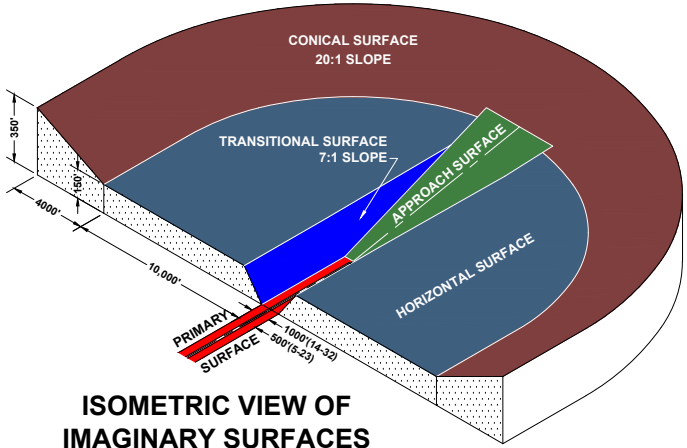
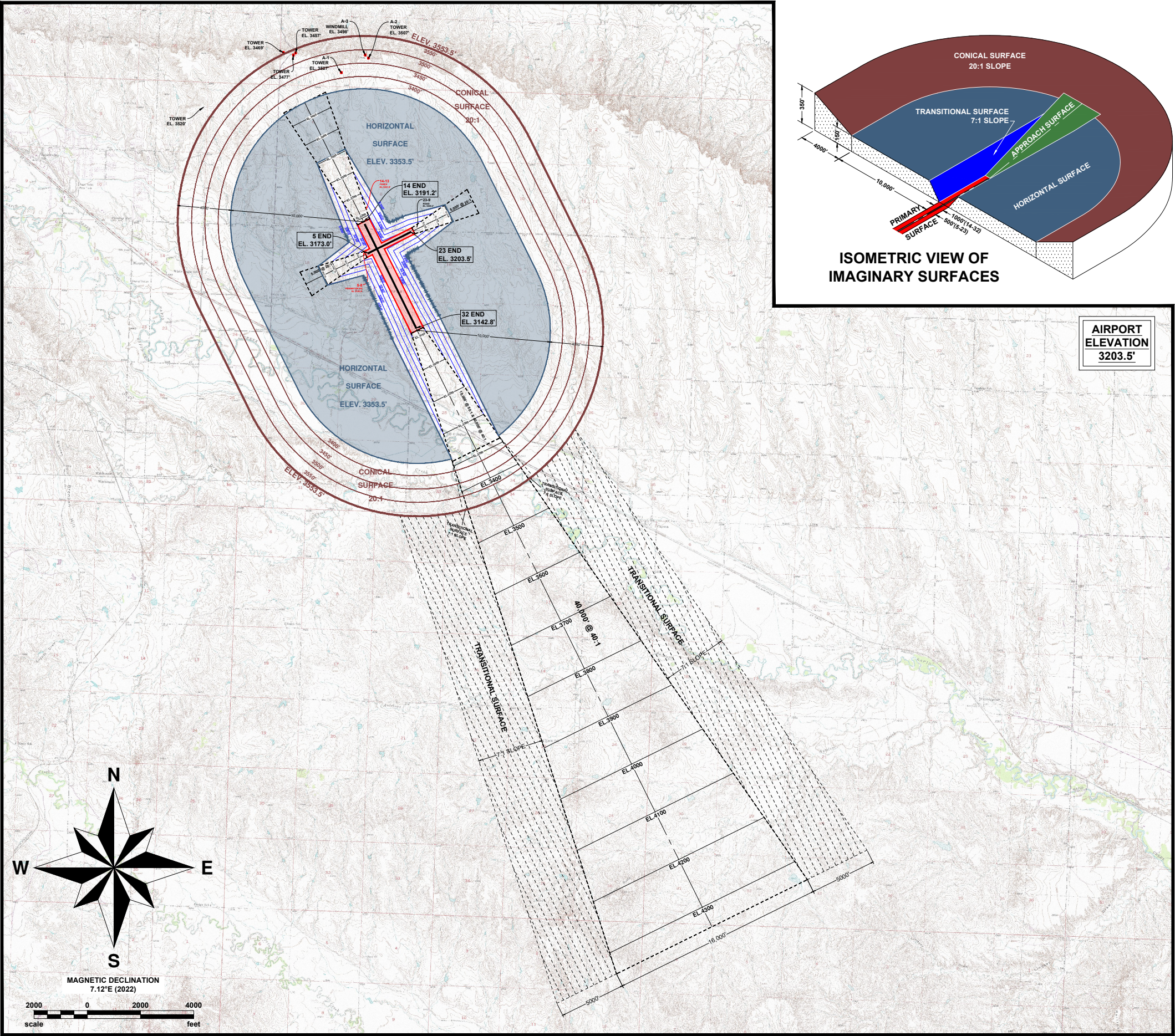
PART 77 AIRSPACE (EXISTING)

Rev.	Date	Description

DRAFTED
TLG
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-20

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AIRPORT
ELEVATION
3203.5'

PART 77 AIRSPACE SCHEDULE OF OBSTACLES RAPID CITY REGIONAL AIRPORT AIRPORT				
OBSTACLE		CHARACTERISTICS		
ID	DESCRIPTION	ELEVATION AMSL (FT.)	PART 77 SURFACE	FUTURE DISPOSITION
5-8	PERIMETER RD	3184	APPROACH	TO REMAIN
14-13	FENCE	3222	TRANSITIONAL	TO BE RELOCATED
23-9	ROAD	3220	APPROACH	TO REMAIN
A-1	TOWER(OL)	3527	CONICAL	TO REMAIN
A-2	TOWER(OL)	3507	CONICAL	TO REMAIN
A-3	WINDMILL	3498	CONICAL	TO REMAIN

(A) = ABOVE SURFACE
(B) = BELOW SURFACE

** LIGHTING OF OBJECT REQUIRED
(OL) = OBJECT LIGHTED
(U) = UNVERIFIED LIGHTING

- NOTES:
- SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 - FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES, SEE INNER APPROACH SURFACE SHEETS.
 - AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'S.
 - OBSTACLE EL. INCLUDE TRAVERSE EL. ADJUSTMENTS.
 - ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.

Rev.	Date	Description

EXTENDED PART 77 AIRSPACE
32 END (EXISTING)

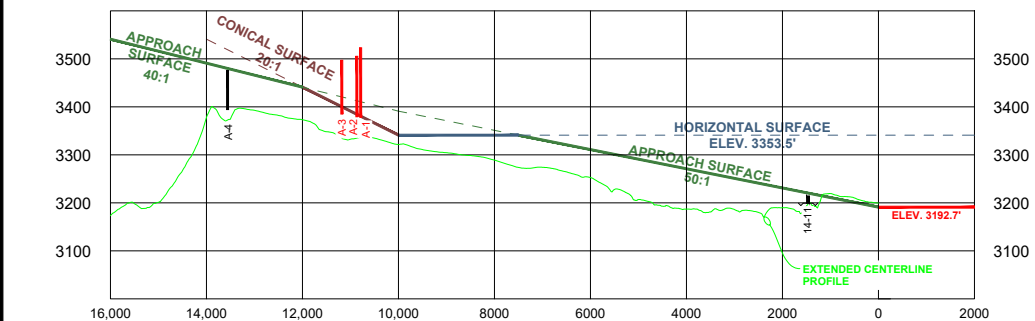
DRAFTED
TLG
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-21

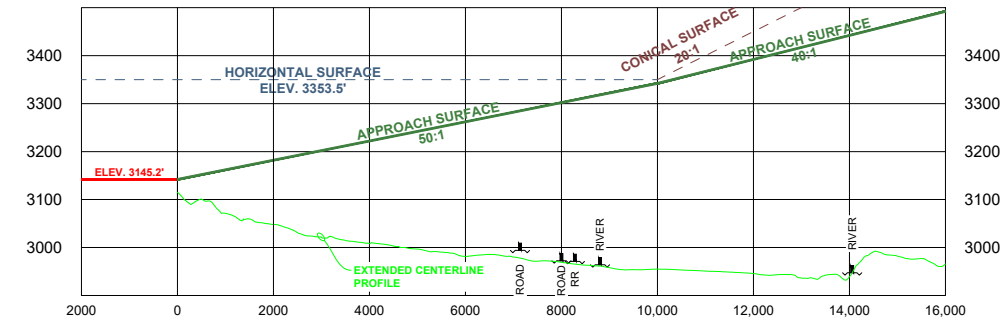


RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

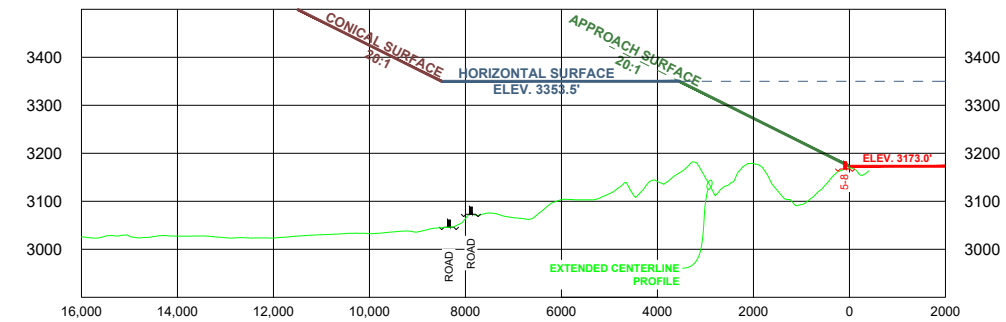
TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION



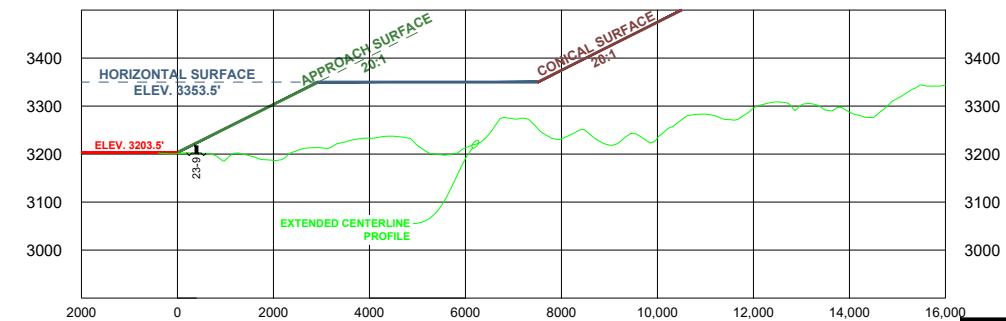
APPROACH TO RUNWAY 14(U)



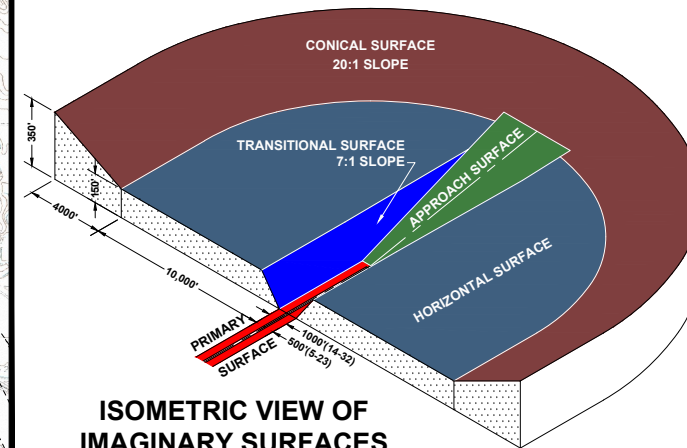
APPROACH TO RUNWAY 32 (U)



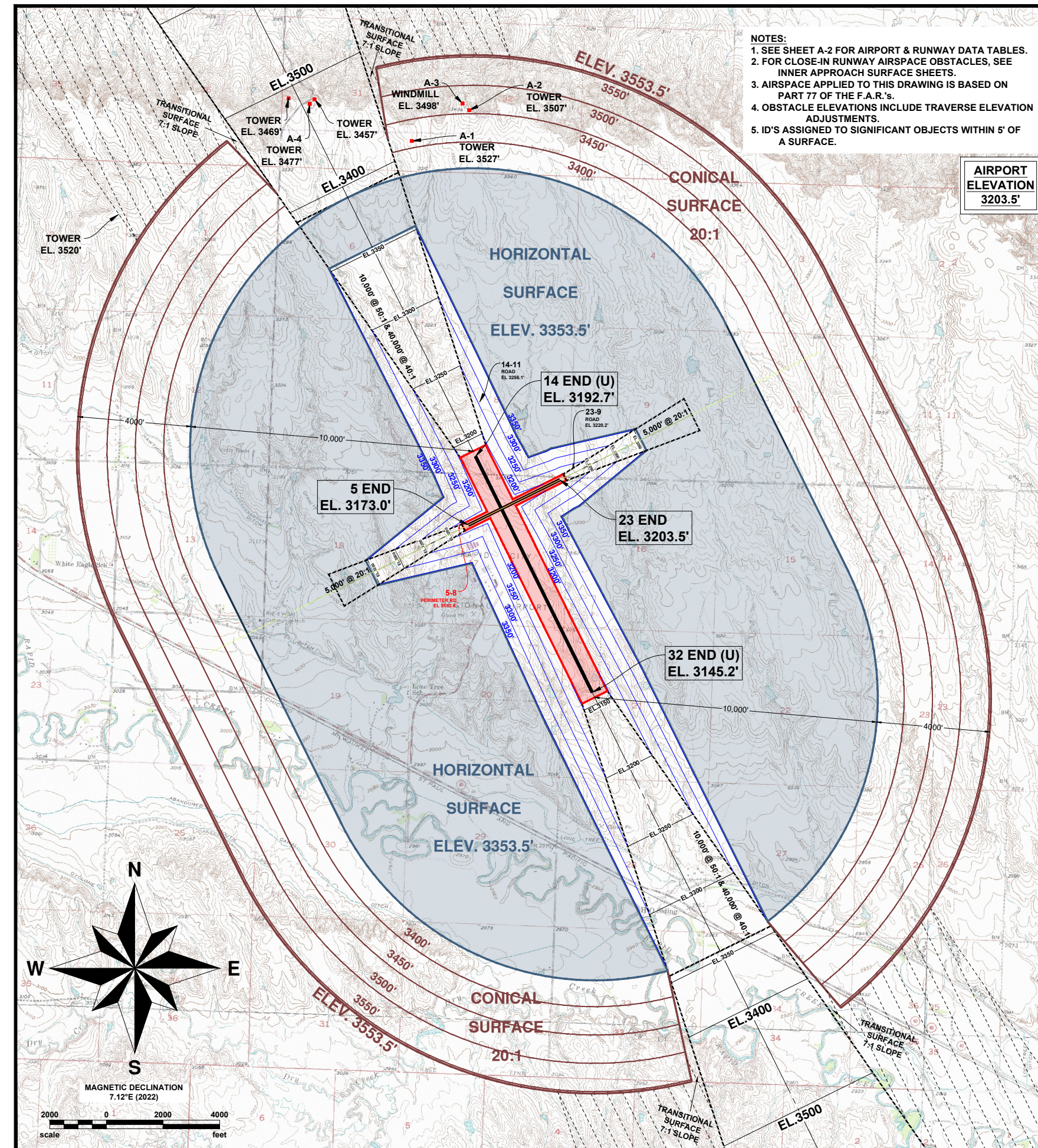
APPROACH TO RUNWAY 5



APPROACH TO RUNWAY 23



ISOMETRIC VIEW OF
IMAGINARY SURFACES



- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES, SEE INNER APPROACH SURFACE SHEETS.
 3. AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'s.
 4. OBSTACLE ELEVATIONS INCLUDE TRAVERSE ELEVATION ADJUSTMENTS.
 5. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.

AIRPORT
ELEVATION
3203.5'



RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

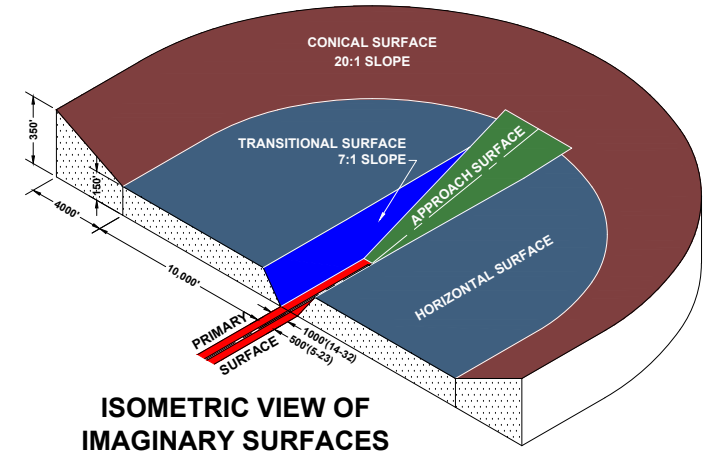
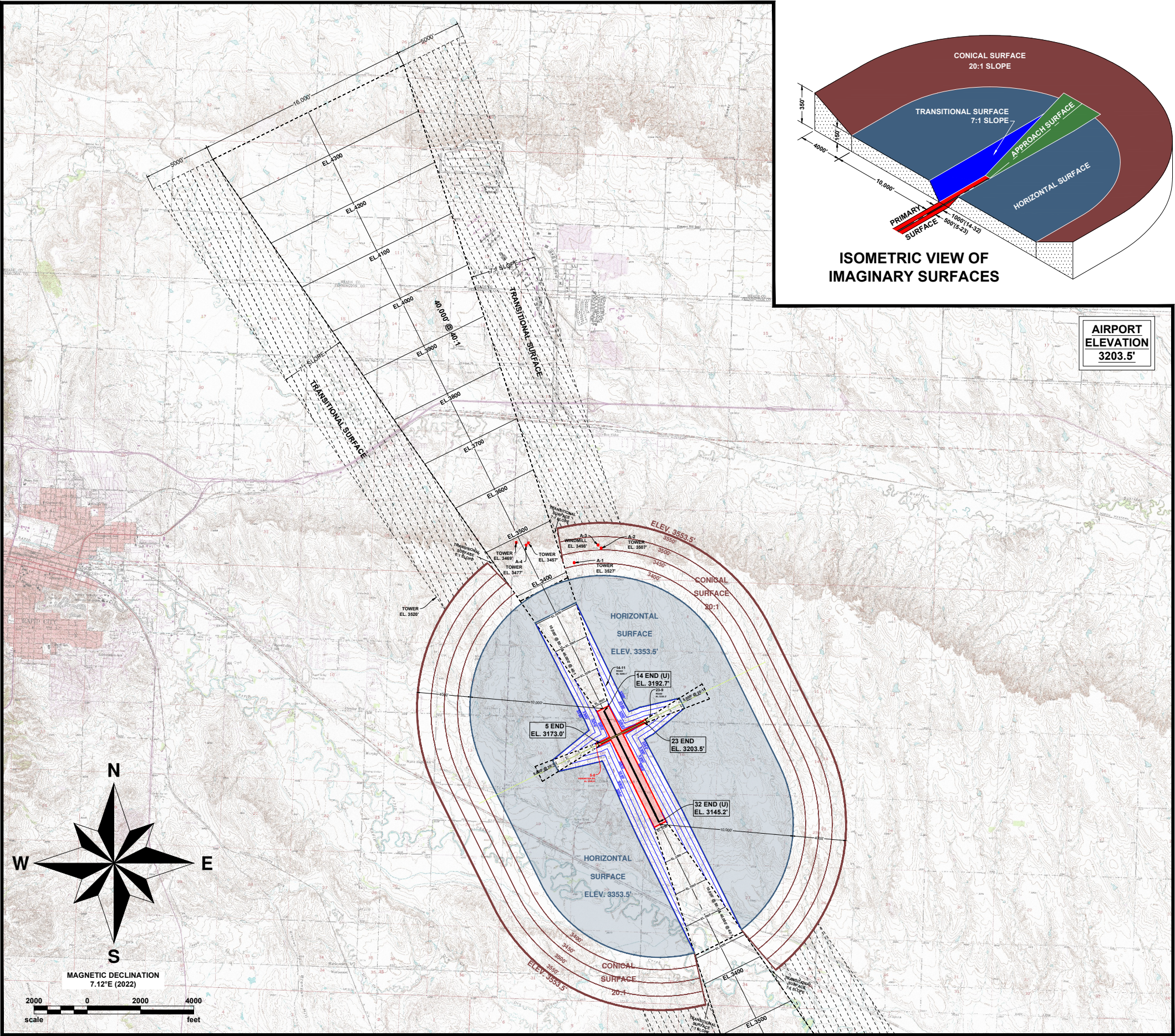
TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

PART 77 AIRSPACE
(ULTIMATE)

DRAFTED
TLG
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-22

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PART 77 AIRSPACE SCHEDULE OF OBSTACLES RAPID CITY REGIONAL AIRPORT AIRPORT				
OBSTACLE		CHARACTERISTICS		
ID	DESCRIPTION	ELEVATION AMSL (FT.)	PART 77 SURFACE	FUTURE DISPOSITION
5-8	PERIMETER RD	3184	TRANSITIONAL	TO REMAIN
14-11	ROAD	3256	TRANSITIONAL	TO BE LOWERED
23-9	ROAD	3220	TRANSITIONAL	TO REMAIN
A-1	TOWER(OL)	3527	CONICAL	TO REMAIN
A-2	TOWER(OL)	3507	CONICAL	TO REMAIN
A-3	WINDMILL	3498	CONICAL	TO REMAIN
A-4	TOWER(OL)	3477	APPROACH	TO REMAIN

(A) = ABOVE SURFACE
(B) = BELOW SURFACE

** LIGHTING OF OBJECT REQUIRED
(OL) = OBJECT LIGHTED
(U) = UNVERIFIED LIGHTING

- NOTES:
- SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 - FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES, SEE INNER APPROACH SURFACE SHEETS.
 - AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'s.
 - OBSTACLE EL. INCLUDE TRAVERSE EL. ADJUSTMENTS.
 - ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.

Rev.	Date	Description

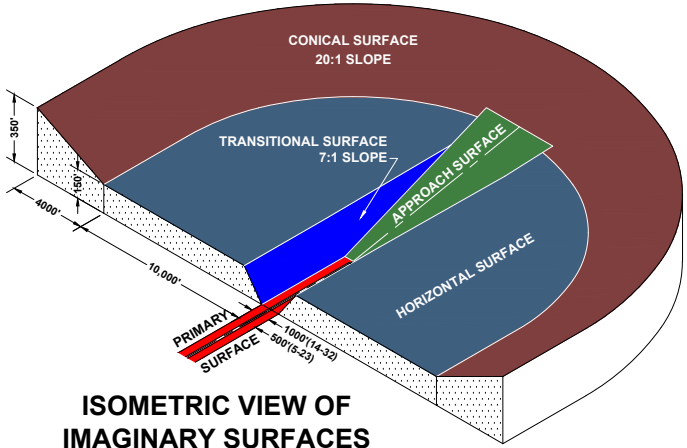
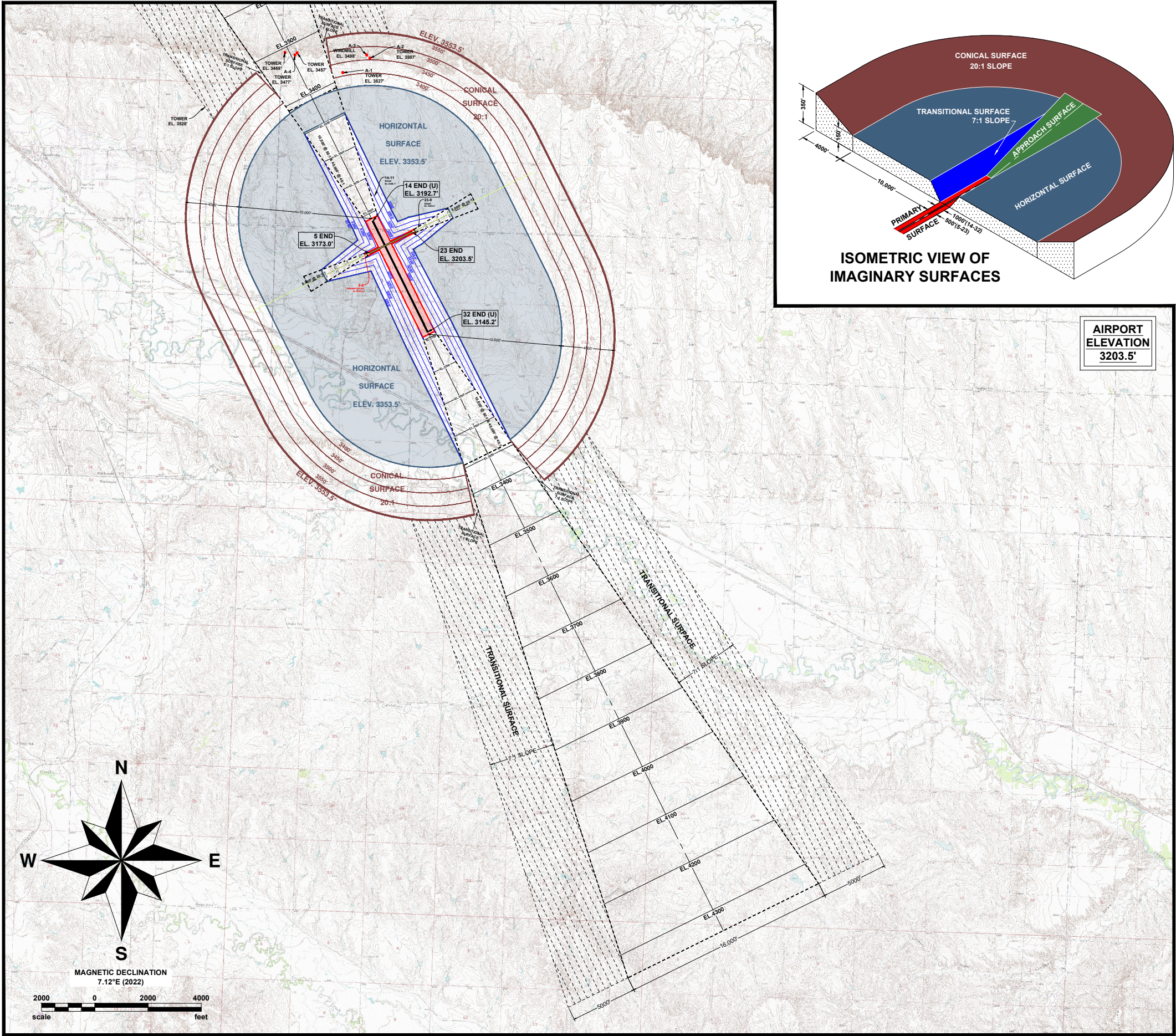
RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

EXTENDED PART 77 AIRSPACE
14 END (ULTIMATE)

DRAFTED
TLG
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-23

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION



PART 77 AIRSPACE SCHEDULE OF OBSTACLES
RAPID CITY REGIONAL AIRPORT

OBSTACLE		CHARACTERISTICS			
ID	DESCRIPTION	ELEVATION AMSL (FT.)	PART 77 SURFACE	OBJECT PENETRATION	FUTURE DISPOSITION
S-8	PERIMETER RD	3184	TRANSITIONAL	41(A)	TO REMAIN
14-11	ROAD	3256	TRANSITIONAL	51(B)	TO BE LOWERED
23-9	ROAD	3220	TRANSITIONAL	131(B)	TO REMAIN
A-1	TOWER	3527	CONICAL	115(A)	TO REMAIN
A-2	TOWER	3507	CONICAL	21(A)	TO REMAIN
A-3	WINDMILL	3498	CONICAL	30(A)	TO REMAIN
A-4	TOWER	3477	APPROACH	31(B)	TO REMAIN

(A) = ABOVE SURFACE
(B) = BELOW SURFACE
** LIGHTING OF OBJECT REQUIRED
(OL) = OBJECT LIGHTED
(U) = UNVERIFIED LIGHTING

- NOTES:
- SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 - FOR CLOSE-IN RUNWAY AIRSPACE OBSTACLES, SEE INNER APPROACH SURFACE SHEETS.
 - AIRSPACE APPLIED TO THIS DRAWING IS BASED ON PART 77 OF THE F.A.R.'s.
 - OBSTACLE EL. INCLUDE TRAVERSE EL. ADJUSTMENTS.
 - ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.

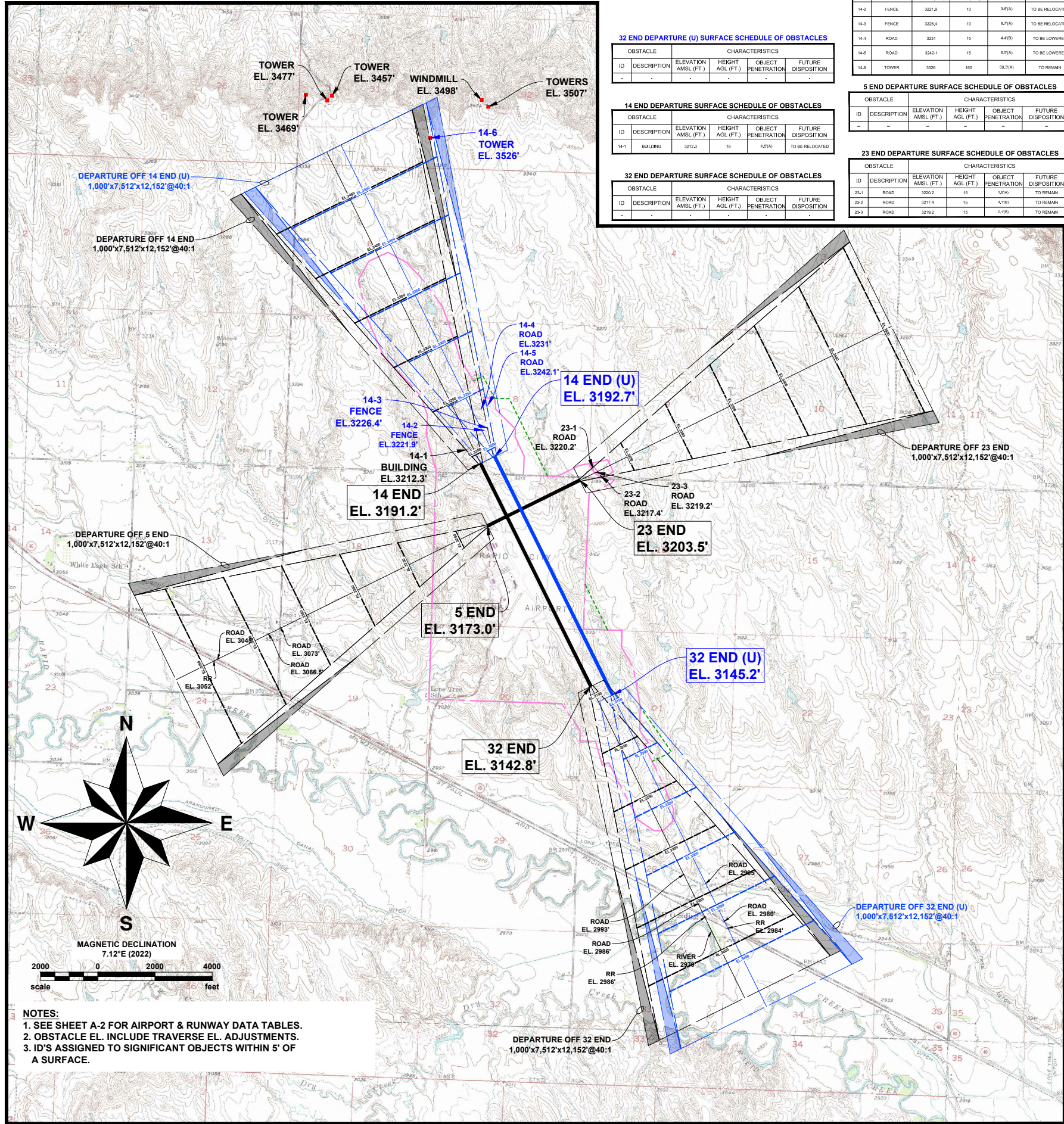
Rev.	Date	Description

EXTENDED PART 77 AIRSPACE
32 END (ULTIMATE)

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KLP
PROJECT NUMBER
1905-02130

SHEET
A-24

RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA
TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION



32 END DEPARTURE (U) SURFACE SCHEDULE OF OBSTACLES

ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
14-1	BUILDING	3212.3	18	4.5(A)	TO BE RELOCATED

14 END DEPARTURE SURFACE SCHEDULE OF OBSTACLES

ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
14-1	BUILDING	3212.3	18	4.5(A)	TO BE RELOCATED

32 END DEPARTURE SURFACE SCHEDULE OF OBSTACLES

ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
14-1	BUILDING	3212.3	18	4.5(A)	TO BE RELOCATED

14 END DEPARTURE (U) SURFACE SCHEDULE OF OBSTACLES

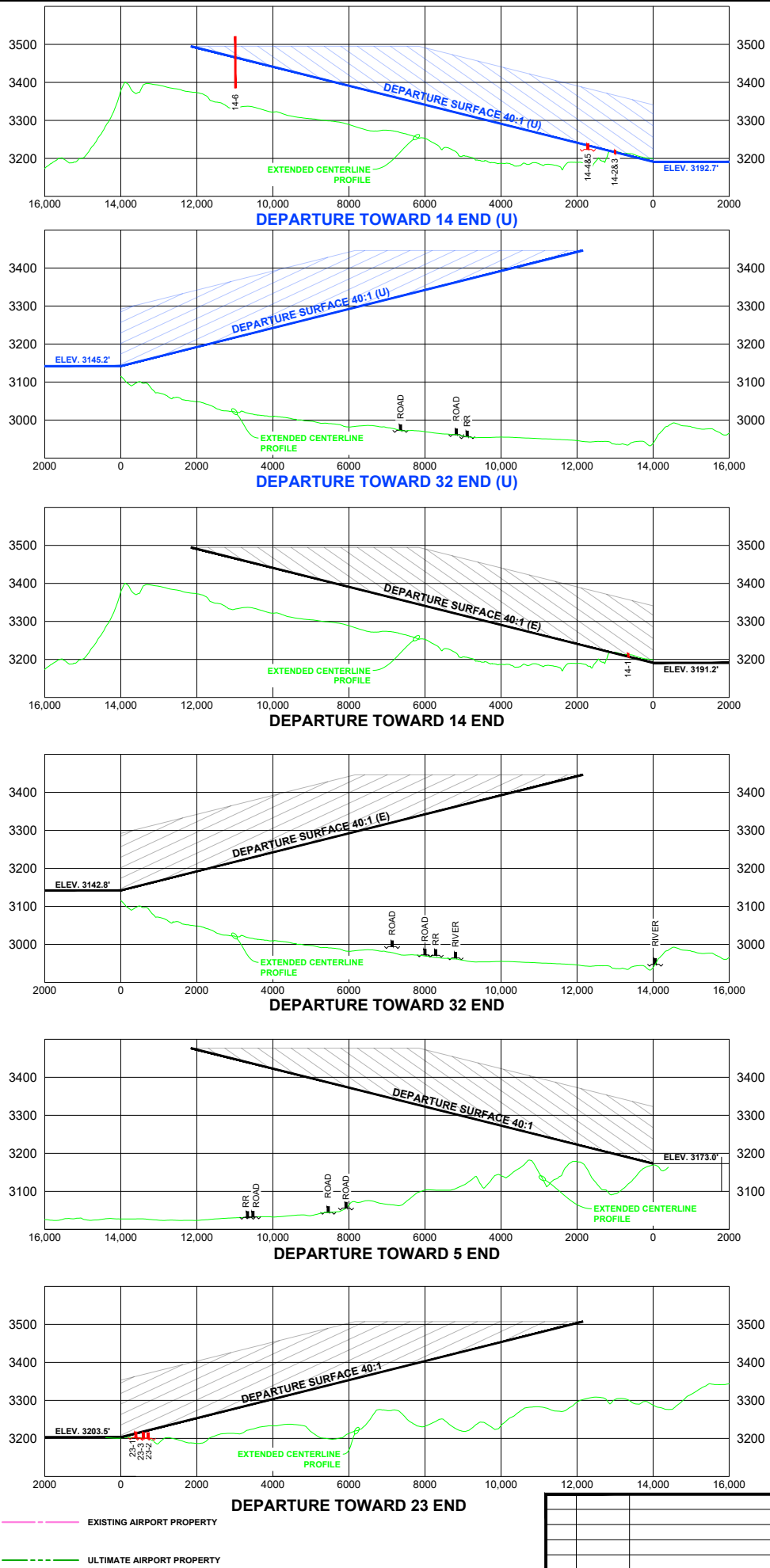
ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
14-2	FENCE	3221.9	10	3.8(A)	TO BE RELOCATED
14-3	FENCE	3226.4	10	5.7(A)	TO BE RELOCATED
14-4	ROAD	3231	15	4.4(B)	TO BE LOWERED
14-5	ROAD	3242.1	15	6.5(A)	TO BE LOWERED
14-6	TOWER	3526	160	58.3(A)	TO REMAIN

5 END DEPARTURE SURFACE SCHEDULE OF OBSTACLES

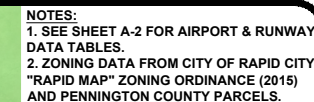
ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
5-1	ROAD	3173.0	15	3.8(A)	TO REMAIN

23 END DEPARTURE SURFACE SCHEDULE OF OBSTACLES

ID	DESCRIPTION	ELEVATION AMSL (FT.)	HEIGHT AGL (FT.)	OBJECT PENETRATION	FUTURE DISPOSITION
23-1	ROAD	3203.2	15	3.8(A)	TO REMAIN
23-2	ROAD	3217.4	15	4.7(B)	TO REMAIN
23-3	ROAD	3219.2	15	5.7(B)	TO REMAIN



- NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
 2. OBSTACLE EL. INCLUDE TRAVERSE EL. ADJUSTMENTS.
 3. ID'S ASSIGNED TO SIGNIFICANT OBJECTS WITHIN 5' OF A SURFACE.

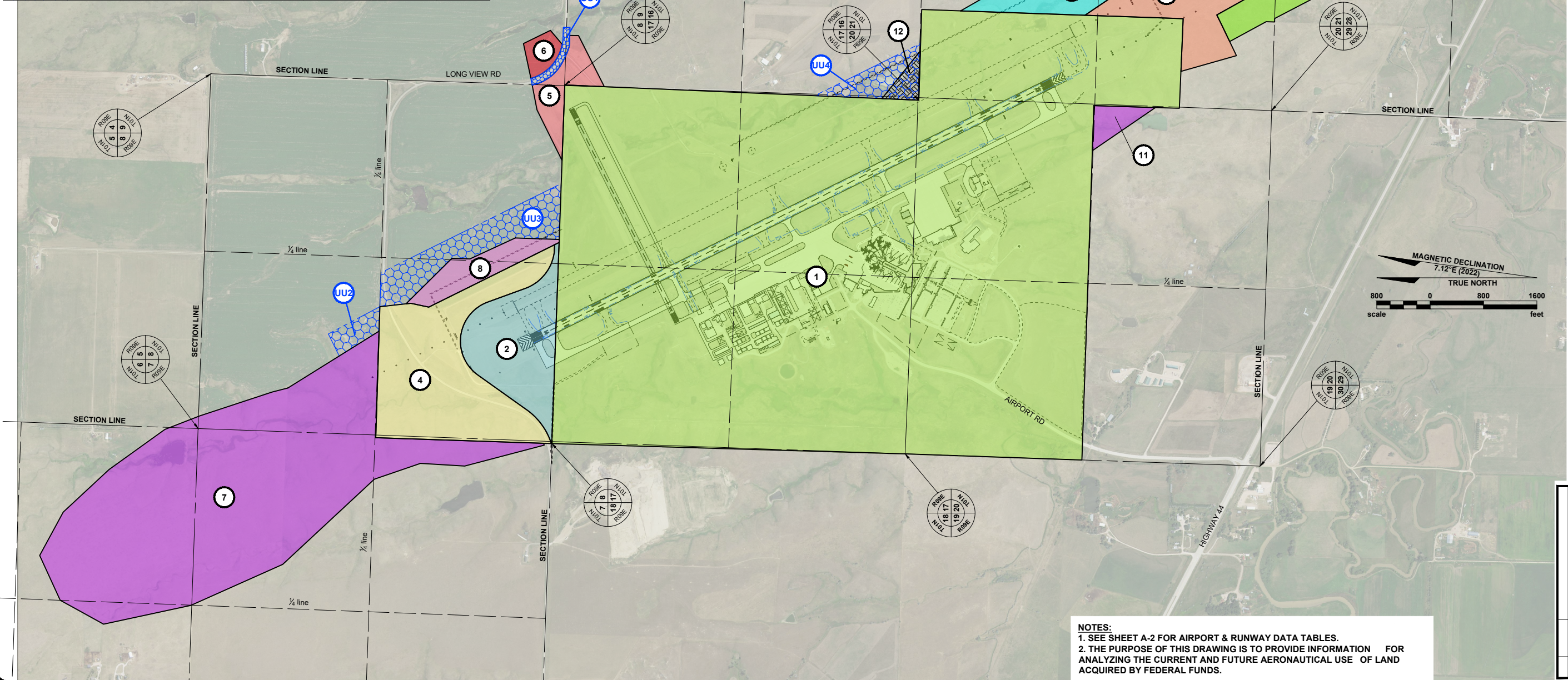


	AGRICULTURE
	AERONAUTICAL
	COMMERCIAL
	RESIDENTIAL
	ULTIMATE DEVELOPMENT
	ULTIMATE AIRPORT PROPERTY
	EXISTING RPZ
	FUTURE/ULTIMATE RPZ
	CITY BOUNDARY
	NON-MOVEMENT AREA
	MOVEMENT AREA
	EXISTING AIRPORT PROPERTY
	RUNWAY OBJECT FREE AREA (OFA)
	RUNWAY SAFETY AREA (RSA)

TRUE NORTH

TRUE NORTH

TABLE OF LAND PARCELS					
PARCEL DESIGNATION	AREA (ACRES)	ACQUIRED FROM (GRANTOR)	TYPE OF ACQUISITION	ACQUIRED UNDER PROJECT NO.	YEAR ACQUIRED
1	1104	CITY OF RAPID CITY	FEE SIMPLE	AIP 9-39-020-801	1948
2	51	CITY OF RAPID CITY	FEE SIMPLE	AIP 9-39-020-C712	1967
3	40	CITY OF RAPID CITY	FEE SIMPLE	9-39-020-C813	1968
4	91	CITY OF RAPID CITY	FEE SIMPLE	6-48-0048-07	1978
5	23	CITY OF RAPID CITY	FEE SIMPLE	6-46-0048-07	1978
6	6	CITY OF RAPID CITY	FEE SIMPLE	3-46-0048-17-94	1993
7	292	CITY OF RAPID CITY	FEE SIMPLE	3-46-0048-05 3-46-0048-07	1989
8	13	CITY OF RAPID CITY	FEE SIMPLE	3-46-0048-05 3-46-0048-07	1989
9	26	CITY OF RAPID CITY	FEE SIMPLE	3-46-0048-05 3-46-0048-07	1989
10	68	CITY OF RAPID CITY	FEE SIMPLE	3-46-0048-05 3-46-0048-07	1989
11	6	CITY OF RAPID CITY	FEE SIMPLE	6-46-0048-07	1989
12	5	CITY OF RAPID CITY	AIR EASEMENT PT 77 20:1	3-46-0048-05 3-46-0048-07	1989
JU1	3	-	AIR EASEMENT PT 77 20:1	-	FUTURE
JU2	6	-	FEE SIMPLE	-	FUTURE
JU3	33	-	FEE SIMPLE	-	FUTURE
JU4	15	-	FEE SIMPLE	-	FUTURE
JU5	21	-	FEE SIMPLE	-	FUTURE



NOTES:
1. SEE SHEET A-2 FOR AIRPORT & RUNWAY DATA TABLES.
2. THE PURPOSE OF THIS DRAWING IS TO PROVIDE INFORMATION FOR ANALYZING THE CURRENT AND FUTURE AERONAUTICAL USE OF LAND ACQUIRED BY FEDERAL FUNDS.

Rev.	Date	Description



RAPID CITY REGIONAL AIRPORT
CITY OF RAPID CITY (OWNER)
RAPID CITY, SOUTH DAKOTA

TO BE USED AS A COMPLETE DRAWING SET FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION

PROPERTY MAP

DRAFTED
MTK
REVIEWED
KLP
PROJECT NUMBER
1905-02130

SHEET
A-27

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